TRANSPO

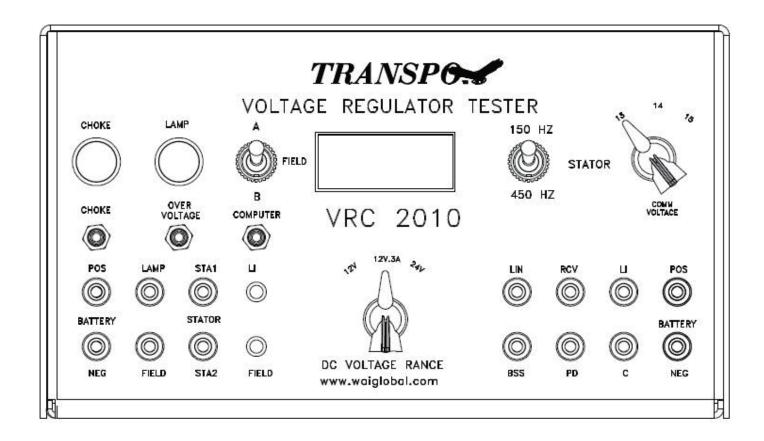
2021

VRC2010

Tester Manual

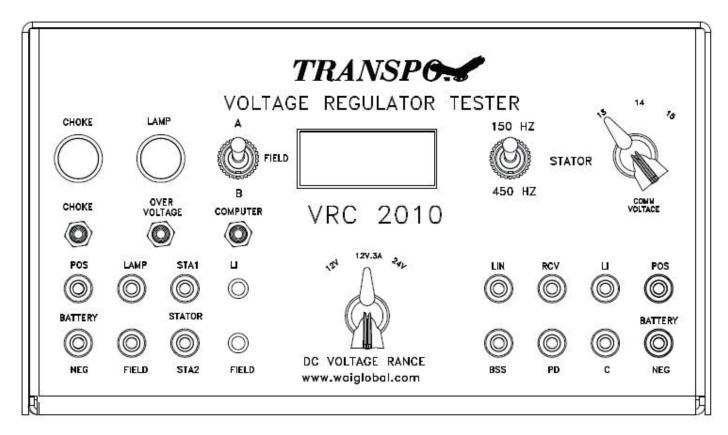






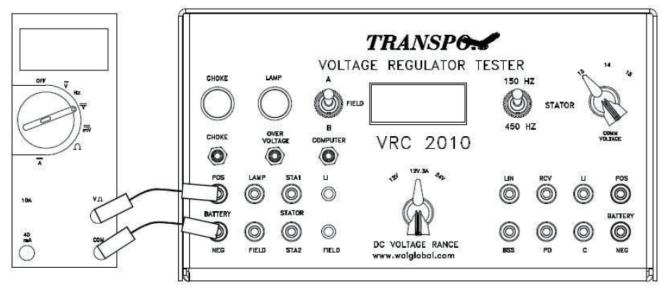
VRC2010 Features

- Test A and B Circuit, 12 and 24 Volt Alternator Regulators
- Test Field Circuit with 0.5A and 3.0A Loads @12Volt, 1A Loads @24Volt
- Warning Light Circuit to Simulate Vehicle Indicator Lamp for 12 and 24 Volt regulators
- Dual stator Output for Valeo type regulators and dual Frequency, replaces VRC101-34
- Push Button identify Active L-Terminal (Choke Drive)
- Push Button identify Presence of Over-Voltage Function
- Push Button C (Computer) type regulators
- Built in VRC101-31 Functions; enables test of F601 type regulators at 13 Volts, 14 Volts and 15 Volts
- 5 Volt lamp (LI) for F601 type application and also for PCM type lamp circuits driven from 5 Volts
- Built in "PD" tester to replace VRC101-26
- Lead Set and Test Manual Provided
- Universal power supply 47 63 Hz, 100 240 VAC and 3 amp fuse included



VRC2010 Panel Description

- Choke Light: also called relay drive. Connects to negative inside, used to test active lamp driver connections on 12 and 24 Volt regulators.
- Lamp: connected to Battery Positive inside tester, used to test lamp driver circuit for 12 and 24 Volt regulators. Green color.
- Field Switch: to put tester in mode to test "A" type (low side drive) and "B" type (high side drive) regulators. Yellow color.
- Stator: Switch enables setting frequency of stator from either 150Hz or 450Hz. White color.
- Comm. Voltage Switch: for Bss, LIN and RCV type regulators you can adjust the setpoint voltage to 13, 14 or 15 Volts.
- Choke Button: Push this button engages the Choke lamp circuit to test relay driver regulators.
- Overvoltage Button: push this button and the tester goes into an overvoltage condition and you can test
 if regulator has OV lamp feature.
- Computer Button: push this button and the "C" connection is grounded, typically in this condition a "C" type regulator setpoint voltage drops to about 12.8 Volts.
- DC Voltage Range Switch: This switch has three settings to control the tester. The 12V setting.puts a low current 0.5 A load to the voltage regulator so you can check its setpoint voltage. The 12V, 3A setting puts a three amp load onto the voltage regulator for test. The 24V setting puts a 1 A load on the regulator and sets for testing 24 Volts regulators.



LEFT PANEL RIGHT PANEL

Left Panel Input connections

- Battery Pos: Connects to the battery connection of the regulator, also used to connect to the Sense, IGN
 or Trio of the regulator. Also called B+, Positive, battery, power, Vcc. Connect DMM V+ for measuring
 voltage. Red color.
- Battery Neg: Connects to the ground of the system, also called Negative, B-, GND, and Ground.
 Connect DMM V- or COM for measuring voltage. Black color.
- STA1: Stator drive circuit also called phase. Provides either 150 or 450 HZ. White color.
- STA2: Same signal as STA1 except 180 degrees out of phase. Used for testing dual stator regulators. White color.

Right Panel Input connections

- LIN: Output connection to drive LIN based regulators, for example IB6056. Blue color.
- BSS: Output connection to drive BSS type regulators. Brown color.
- RCV: Output connection to drive Ford type Com regulators, for example F601HD. Gray color.
- LI: Load Indicator, this connects to the LI Led to verify the LI circuit of the regulator still works. The brightness of the LI LED should change if the COMM Voltage Knob changes position. Gray color.
- PD: The drive circuit to test PD type voltage regulators. Orange color.
- C: connection for the "C" terminal of the voltage regulators. Common in many Import regulators. Purple color.
- Battery Pos: Connects to the battery connection of the regulator when using the right panel input connections. Red color.
- Battery Neg: Connects to the ground of the system when using the right panel input connections. Black color.

OPERATING INSTRUCTIONS FOR VRC2010

Set the field current switch to 0.5A for checking or setting the regulation voltage. Set the field current switch to 3A for burn-in.

Set the "FIELD" switch to "A" or "B" according to the tester information given on the tester instructions.

"A" Circuit - The "A" circuit regulator design has one alternator field lead connected to battery (or trio) and the other end of the field is controlled or switched to ground by the regulator.

"B" Circuit - The "B" circuit regulator design has one alternator field lead connected to ground and the other field is controlled or switched to the battery (or trio) by the regulator.

Select the "Voltage Range" (12v, 12V, 3A or 24V) for the regulator being tested and turn the power switch to the "ON" position.

If the short circuit light comes on, quickly turn the tester "OFF". The short circuit light indicates that battery positive is being shorted to battery negative should the tester fail due to overload, check the fuse. The Transpo VRC2010 is not to be used to check D.C. generator regulators. The tester is designed to be used to test alternator regulators only.

TEST RESULTS "GOOD REGULATOR"

The regulator is operating correctly if the field light blinks and the digital meter displays approximately the set point voltage given on the appropriate tester instructions. Sometimes it may be necessary to adjust the voltage setting on those regulators that are adjustable. See the tester instructions for the regulator being tested.

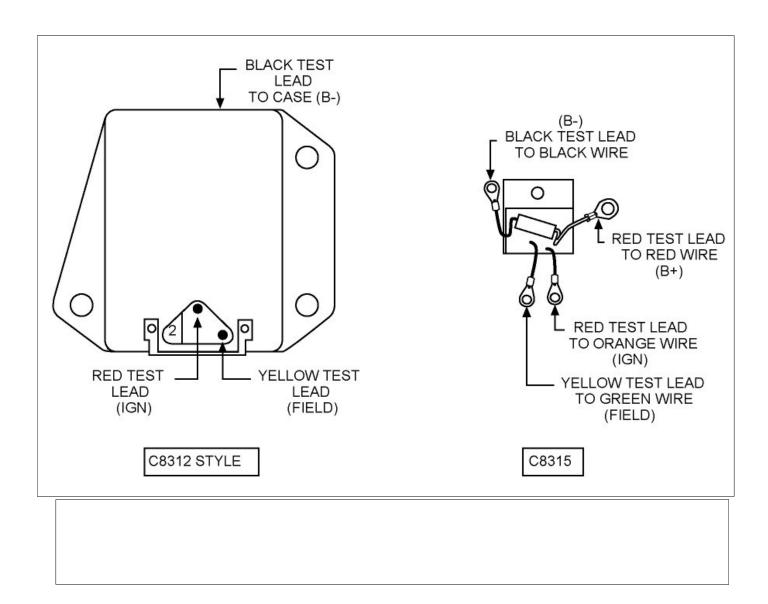
TEST RESULTS "BAD REGULATOR"

Full Field - The digital meter will indicate over 16.5V for a 12V regulator and over 29.5V for a 24V regulator. The field light will not blink but will remain "ON". A regulator with this type of defect will not be able to control the output voltage of the alternator.

		for	CHRYSLER	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
C8312	Α	12	14.3				
C8313	Α	12	14.2				
C8315	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

N/A

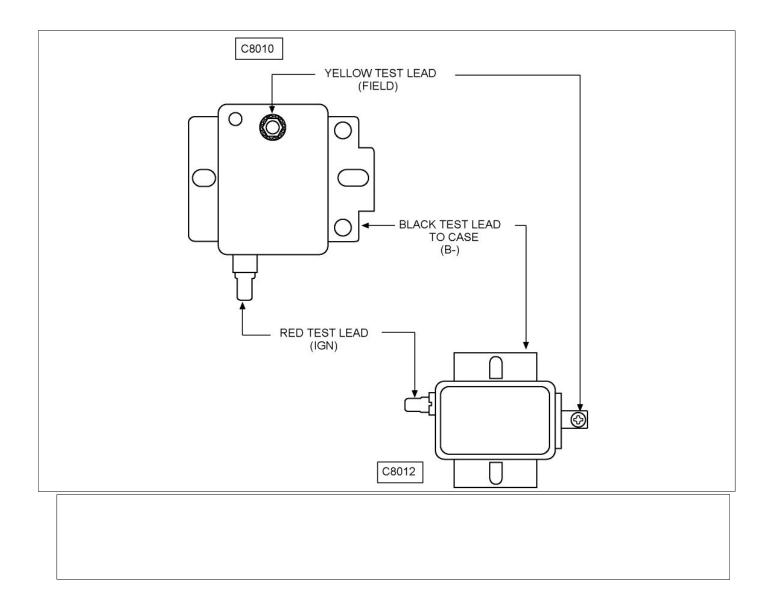


Page 1 Product Group C-01 Revision: Date: 1/6/2021

		for	CHRYSLER	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
C8010	В	12	14.3				
C8012	В	12	14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

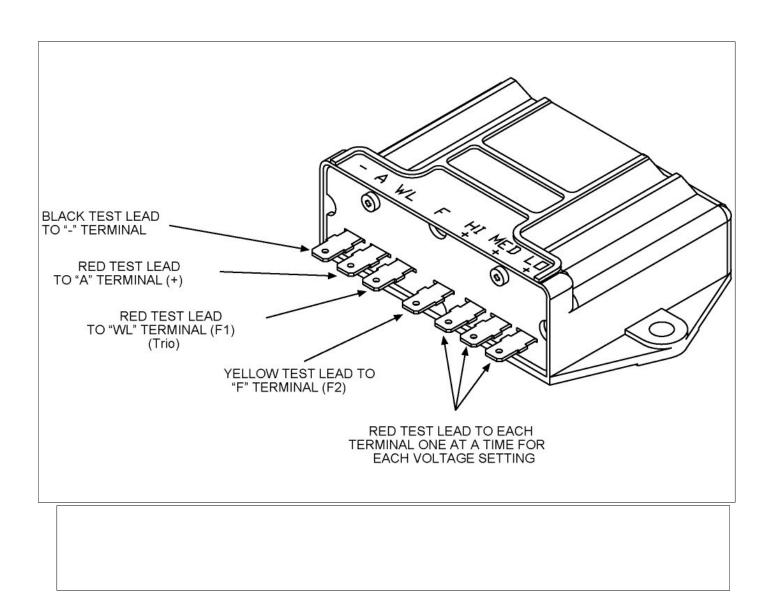
N/A



Page 2 Product Group C-02 Revision: 3/12/1999 Date : <u>1/6/2021</u>

		for	C.A.V.	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
CE520	Α	24	HI 28.8						
CE520	Α	24	MID 27.8						
CE520	Α	24	LO 26.7						

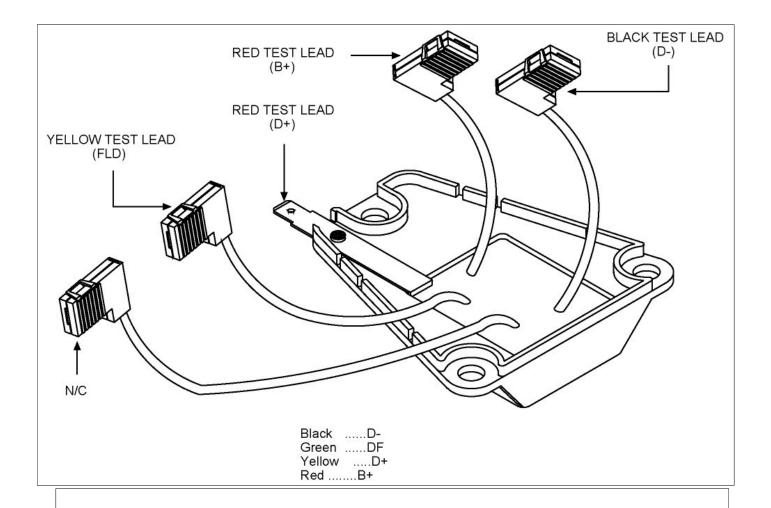
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 3 Product Group CE-01 Revision: 3/10/1999 Date : <u>1/6/2021</u>

		for	C.A.V.	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
CE301	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

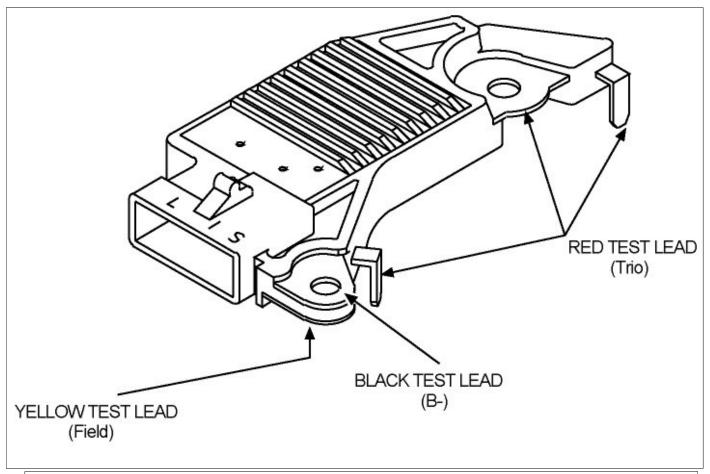


Page 4 Product Group CE-03 Revision: 3/8/1999 Date : <u>1/6/2021</u>

		for	DAEWOO	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
D403	Α	12	14.7					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

D403 Special Note: POWER ON field lamp may blink or illuminate steady-on to indicate a functional circuit.



D403 Special Note: POWER ON field lamp may blink or illuminate steady-on to indicate a functional circuit.

Page 5 Product Group DA-01 Revision: 10/22/1907 Date: 1/6/2021

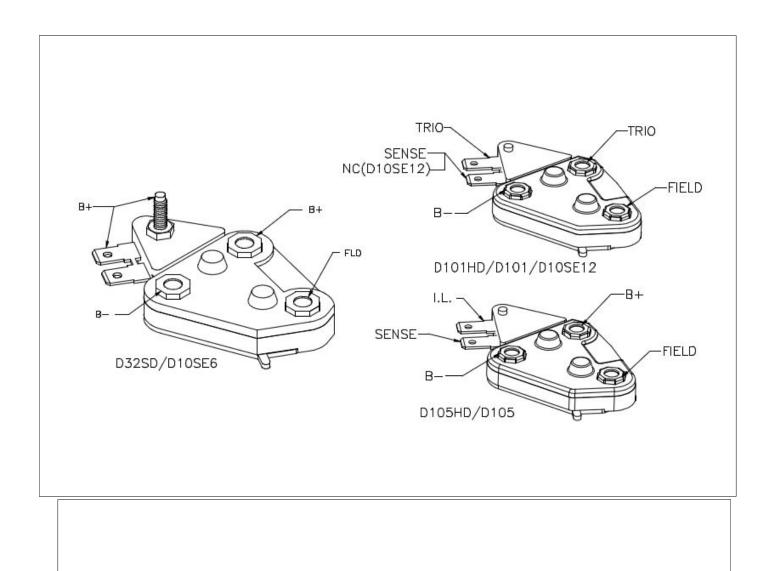
type regulators

DELCO

for

			72200		. •		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D32S	Α	32	37.5	D10SE12	Α	12	14.8
D10SE6	Α	6	7.7	D101	Α	12	14.8
D105	Α	12	14.8	D101HD	Α	12	14.8
D105HD	Α	12	14.8				

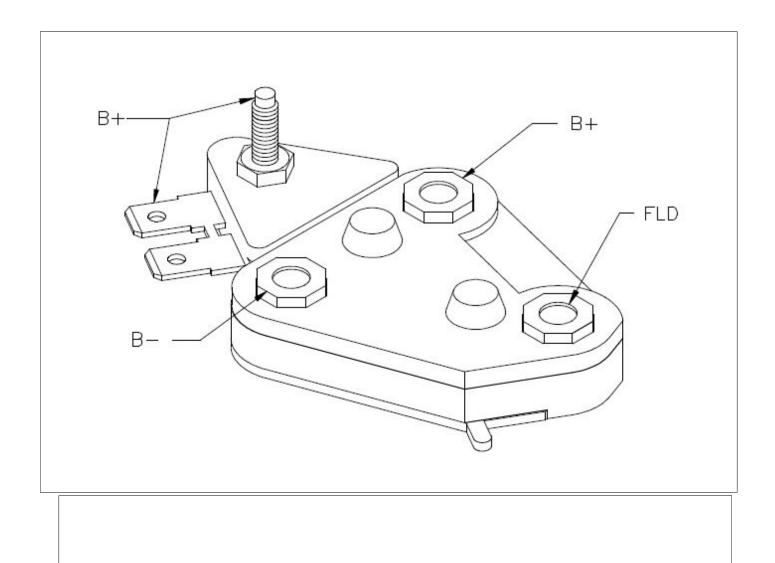
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 6 Product Group D-02 Revision: Date : 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D17SE	Α	12	14.2	D27S	Α	12	14.0
D102HD	Α	12	13.7				
D30S	Α	24	27.5				
D27	Α	12	13.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



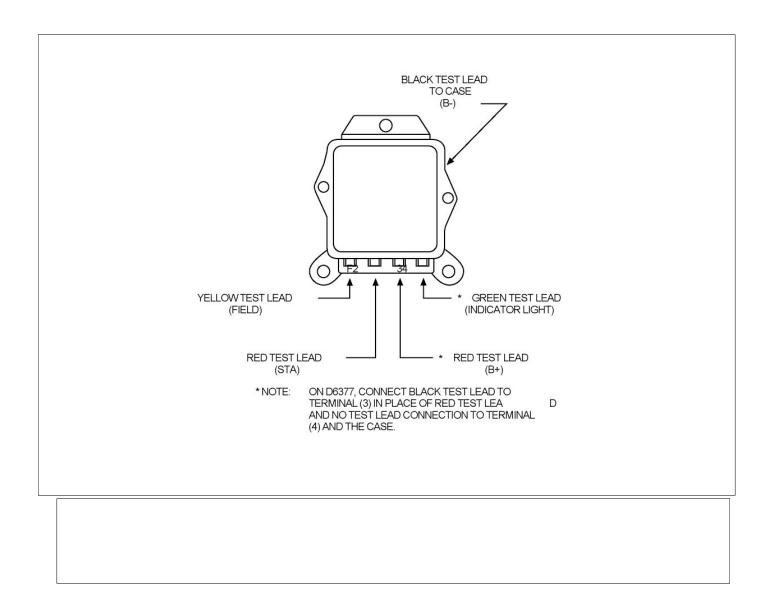
Page 7 Product Group D-03 Revision: Date: <u>1/6/2021</u>

		for DELCO		type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D9212	В	12	14.2	D6378	В	12	14.6
D9212S	В	12	14.2	D6377	В	12	14.6
D9212C	В	12	14.2	D518	В	24	27.5
D6374	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

On all above parts numbers except D6377, disconnect red test lead from the terminal marked with "S" Indicator light should turn on and the meter will indicate set point voltage.



Page 8 Product Group D-06 Revision: 5/1/1997 Date: 1/6/2021

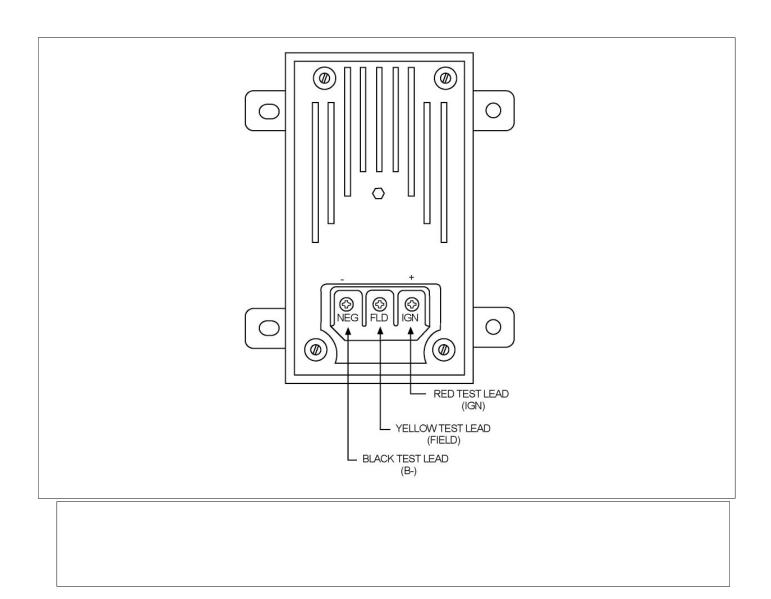
DELCO

for

				3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D443	В	12	14.2	D597HD	В	24	27.5
D447	В	24	27.5				
D551	В	12	14.2				
D597	В	24	27.5				

type regulators

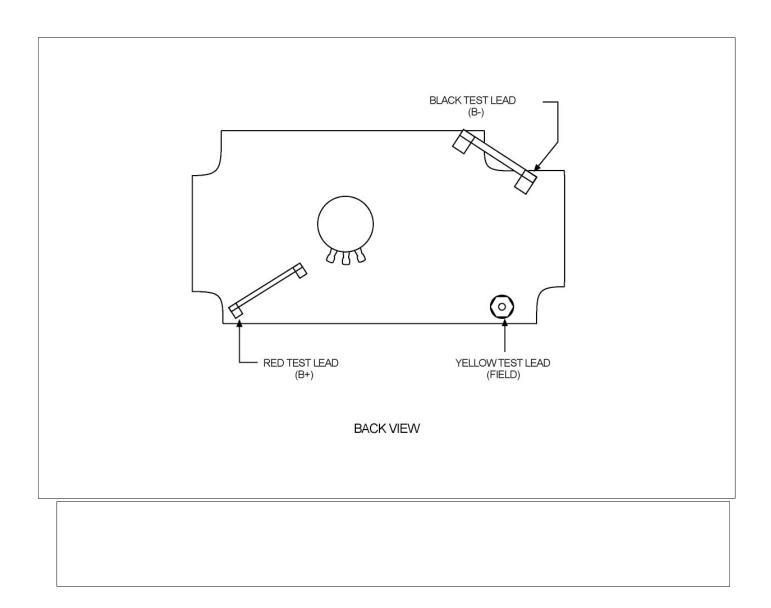
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 9 Product Group D-07 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D551P	В	12	14.2				
D597P	В	24	27.5				

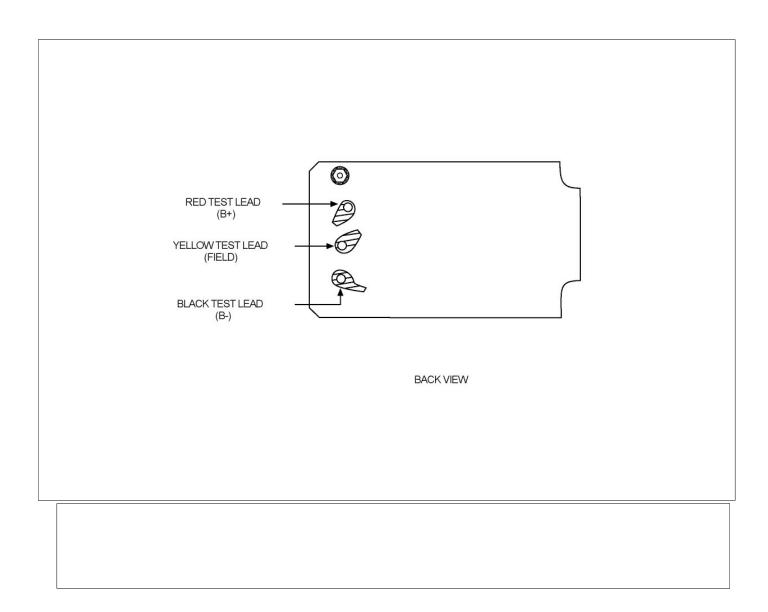
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 10 Product Group D-08 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D443P	В	12	14.2				
D447P	В	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 11 Product Group D-09 Revision: Date: <u>1/6/2021</u>

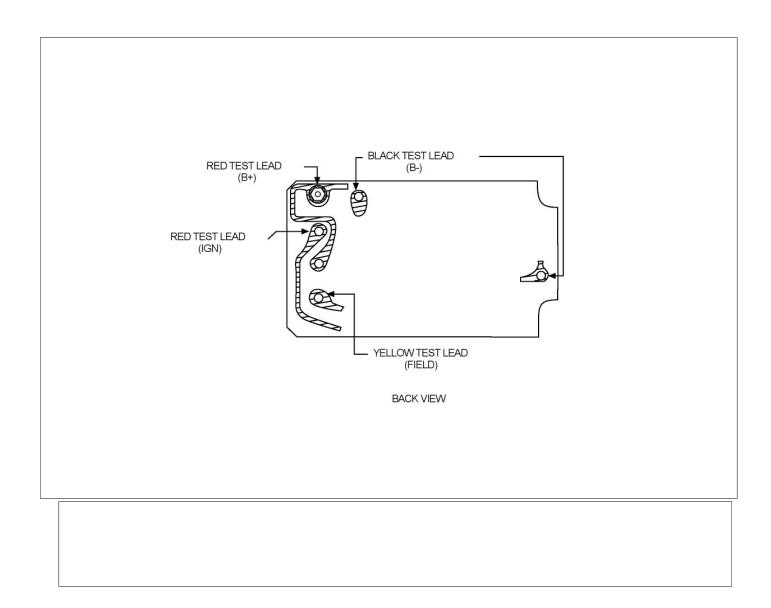
DELCO

for

				3,60003			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D437P	Α	24	27.5				
D559P	Α	12	12.2				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 12 Product Group D-10 Revision: Date : <u>1/6/2021</u>

DELCO

for

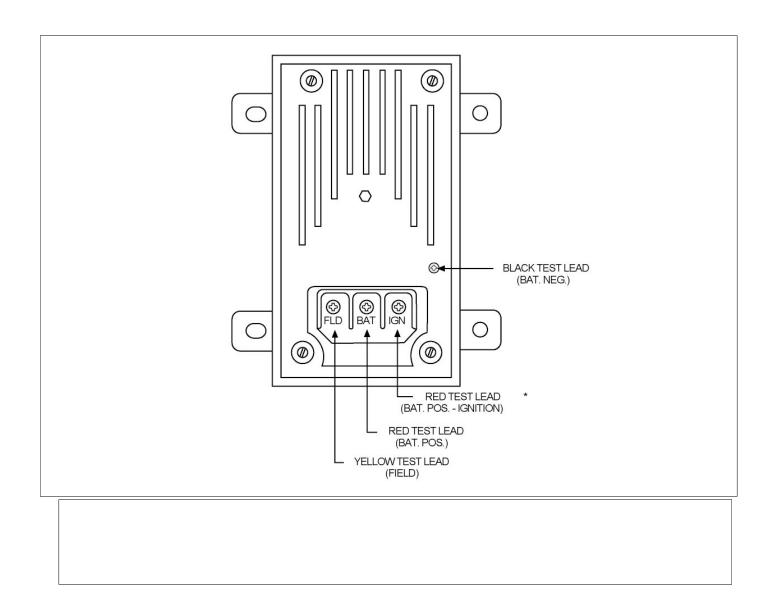
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PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D437	Α	24	27.5				
D559	Α	12	14.2				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked with (*) . Field lamp should turn off and the meter will indicate low voltage.



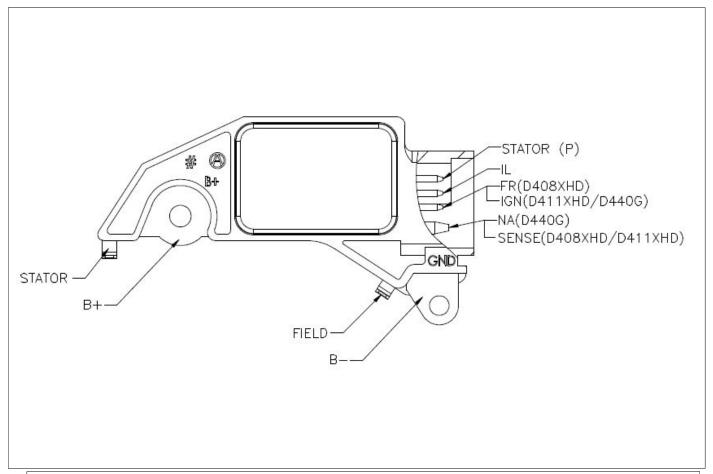
Page 13 Product Group D-11 Revision: Date: 1/6/2021

		for	DELCO	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D408XHD	В	12	14.8				
D411XHD	В	12	14.8				
*D440G	В	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "STATOR". The indicator light will turn on, field lamp will stay on and meter will indicate approximately 12V. Disconnect the test lead from "L" terminal. Regulator will turn off and the meter will indicate 12V. To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



NOTE: On **D440** regulator, both of the "L" and "I" terminals must be connected in order to conduct the test.

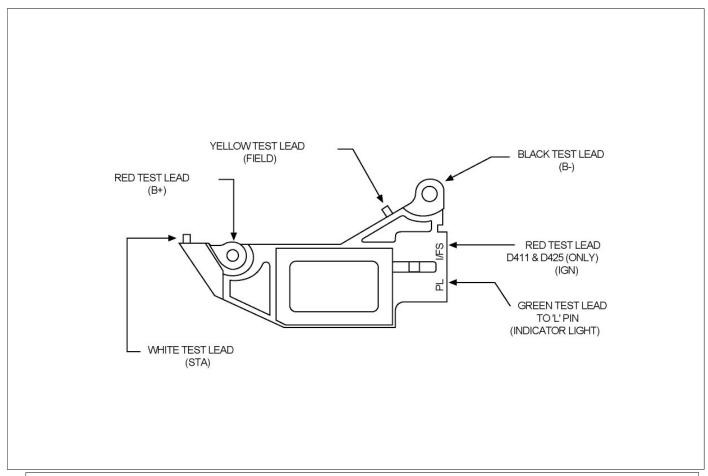
Page 14 Product Group D-13 Revision: 4/26/1905 Date: 1/6/2021

		for	DELCO	type regulators		tors	
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D412 *	В	12	14.2	D446	В	12	14.6
D413	В	12	14.7	D411SE	В	12	14.7
D440 **	В	12	14.7				
D425	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "STATOR". The indicator light will turn on, field lamp will stay on and meter will indicate approximately 12V. Disconnect the test lead from "L" terminal. Regulator will turn off and the meter will indicate 12V. On "I" type voltage regulators, connect the regulators as per diagram below except do not connect the indicator light to the "L" terminal. Connect red test lead to the terminal marked "I/F" and same results as step number 2 should be noticed.



*NOTE: On D412 regulator , an 1800 OHM pull-up resistor is required between "S" terminal of regulator and the testers battery POS.

**NOTE: On D440 regulator, both of the "L" and "I" terminals must be connected in order to conduct the test.

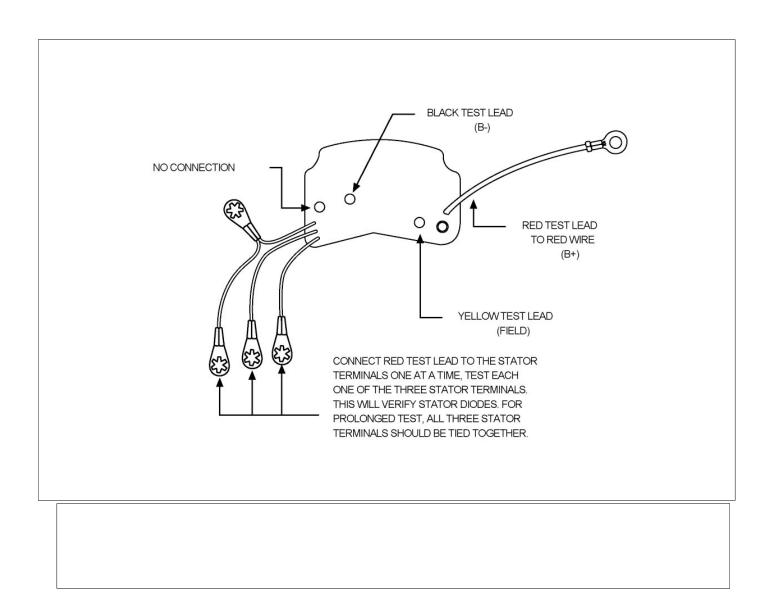
Page 15 Product Group D-14 Revision: 4/26/1905 Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D812	Α	12	14.2				
D817	Α	12	14.2				
D824	Α	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from the regulator's yellow wire. Field lamp should turn off and the meter will indicate low voltage. Also, connection the red test lead to "NO CONNECTION" terminal instead of regulator's red wire will result in the same test data.



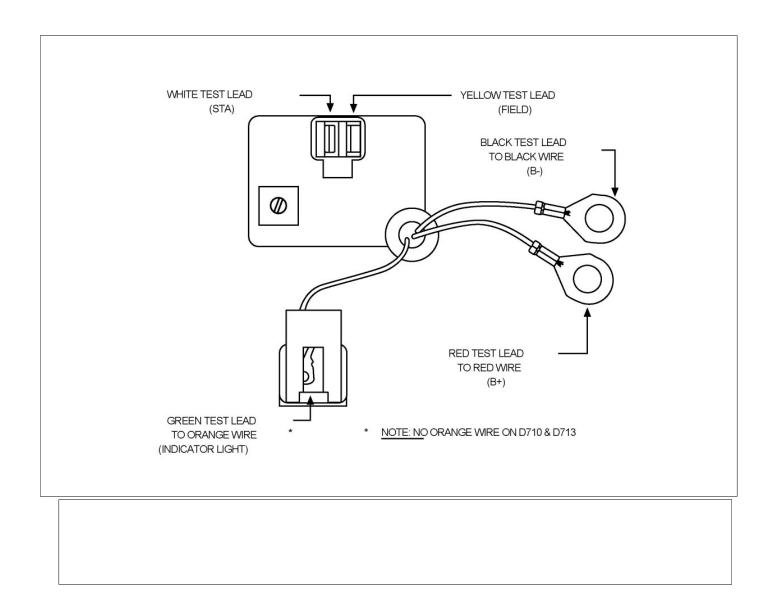
Product Group D-18 Date: 1/6/2021 Revision: Page 16

		for	DELCO	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D710	В	6	7.8				
D713	В	12	14.2				
D173L	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "stator". Field lamp should turn off and the meter will indicate low voltage. On D713L regulator, removal of white test leads will also cause indicator light to turn on.



Page 17 Product Group D-16 Revision: 5/1/1997 Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D590S	В	12	14.2				
D591S	В	24	27.5				
D593S	В	32	37.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 18 Product Group D-17 Revision: Date: 1/6/2021

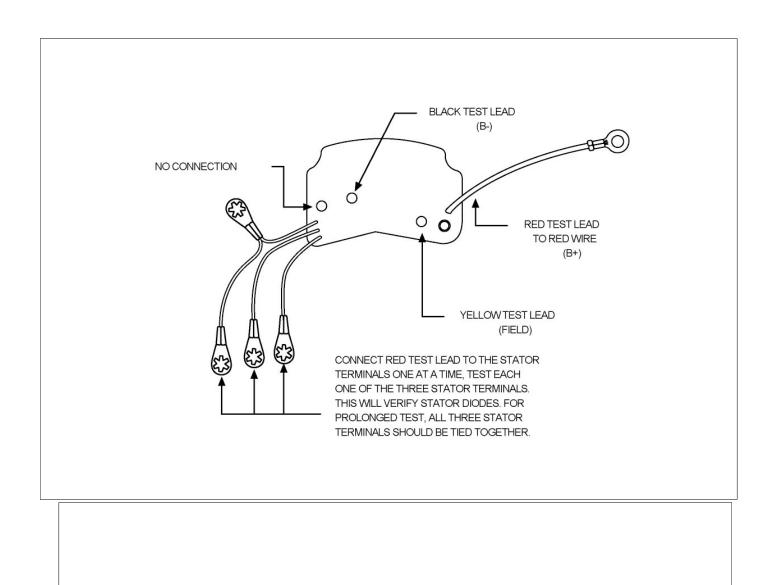
type regulators

DELCO

for

				,poogu.u.o	. •		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D812	Α	12	14.2	D824	Α	24	27.5
D812HD	Α	12	14.2	D824HD	Α	24	27.5
D813	Α	12	14.2	D832	Α	32	37.5
D813HD	Α	12	14.2				

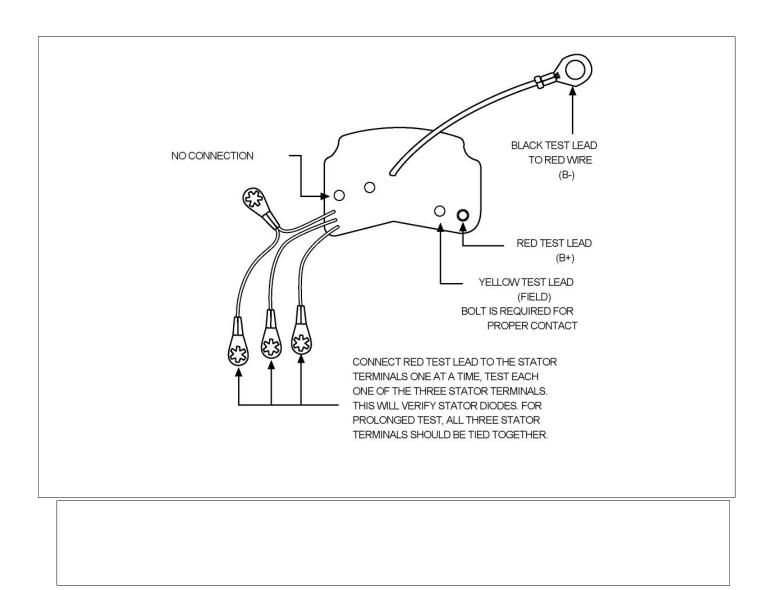
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 19 Product Group D-18 Revision: 5/1/1997 Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D817	Α	12	14.2				
D817HD	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



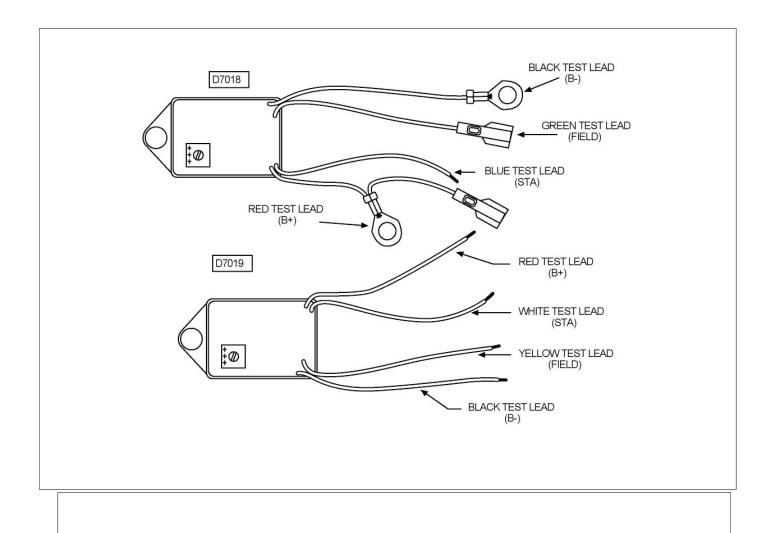
Page 20 Product Group D-19 Revision: Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D7018	Α	12	14.2				
D7019	Α	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

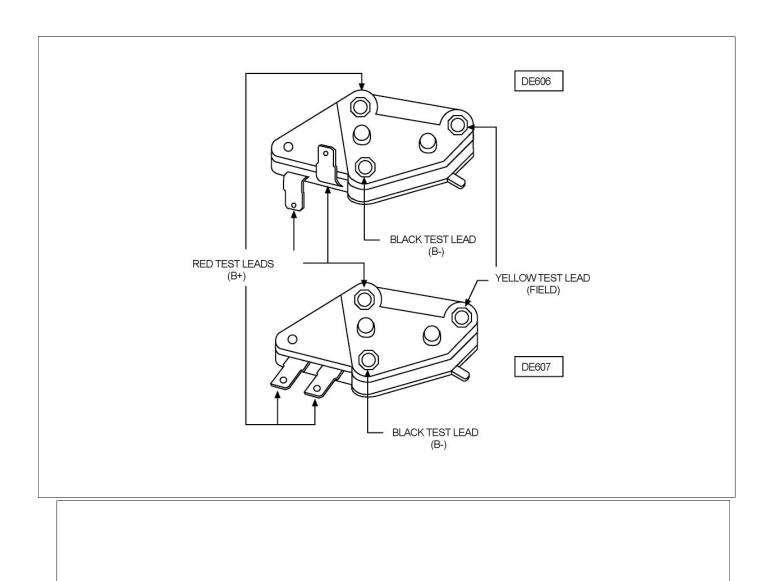
Remove white test lead from regulator's wire marked "stator". Field lamp should turn off and the meter will indicate low voltage.



Page 21 Product Group D-20 Revision: 11/2/1903 Date : <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE606	Α	12	14.5				
DE607	А	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



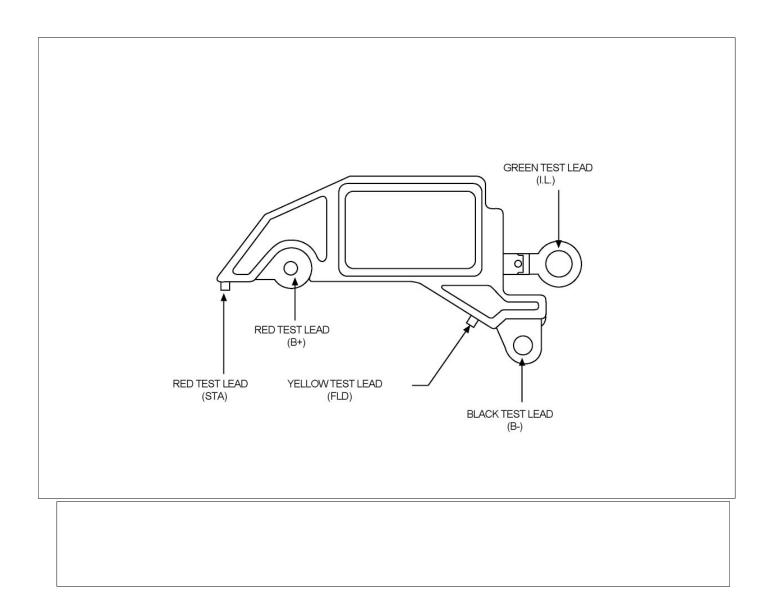
Page 22 Product Group D-21 Revision: Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D424	В	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "stator". The indicator light will turn on, field lamp will stay on and meter will indicate approximately 12V. Disconnect the test lead from "L" terminal. Regulator will turn off and the meter will indicate 12V.



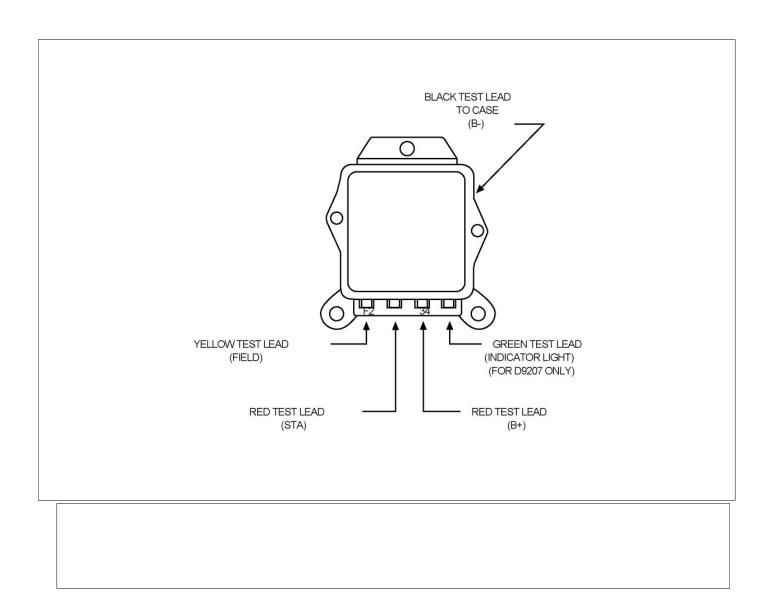
Page 23 Product Group D-23 Revision: 3/8/1999 Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D9206	В	6	7.8				
D9207	В	6	7.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

On D9207, remove test lead from the terminal marked "STA". Field lamp will turn off, indicator light will turn on, and the meter will indicate low voltage.



Page 24 Product Group D-25 Revision: Date: 1/6/2021

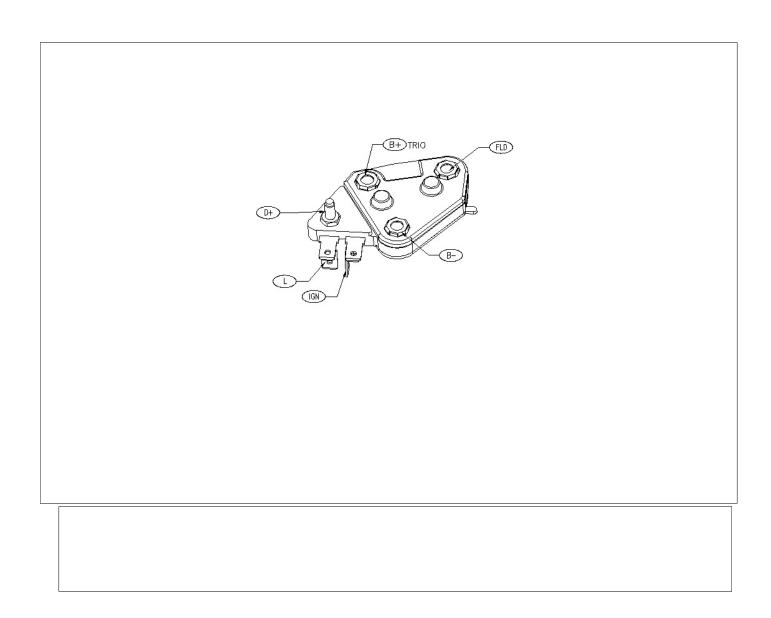
DELCO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE611	A	12	14.7				
DE615	Α	12	14.7				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

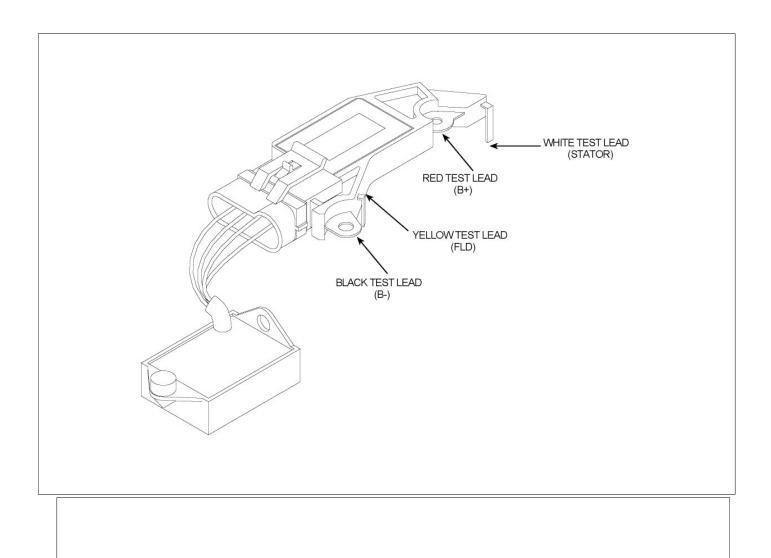


Page 25 Product Group D-26 Revision: 8/5/1997 Date : <u>1/6/2021</u>

		for	DELCO	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
D7050	В	12	14.7						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

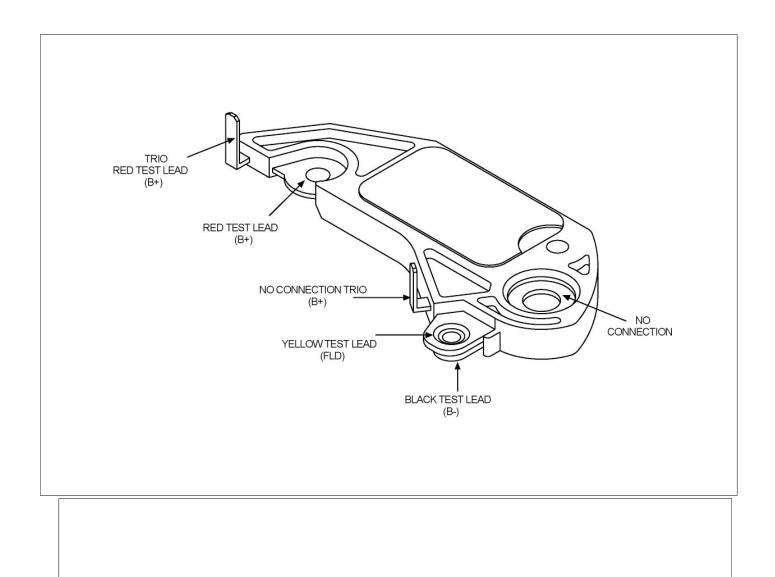
Remove white test lead from terminal marked "stator". Regulator will turn off and the meter will indicate 12V.



Page 26 Product Group D-27 Revision: 9/12/1997 Date : <u>1/6/2021</u>

		for	DELCO	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
DE701	Α	12	14.7						
DE701HD	Α	12	14.7						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 27 Product Group D-28 Revision: 10/20/1997 Date : <u>1/6/2021</u>

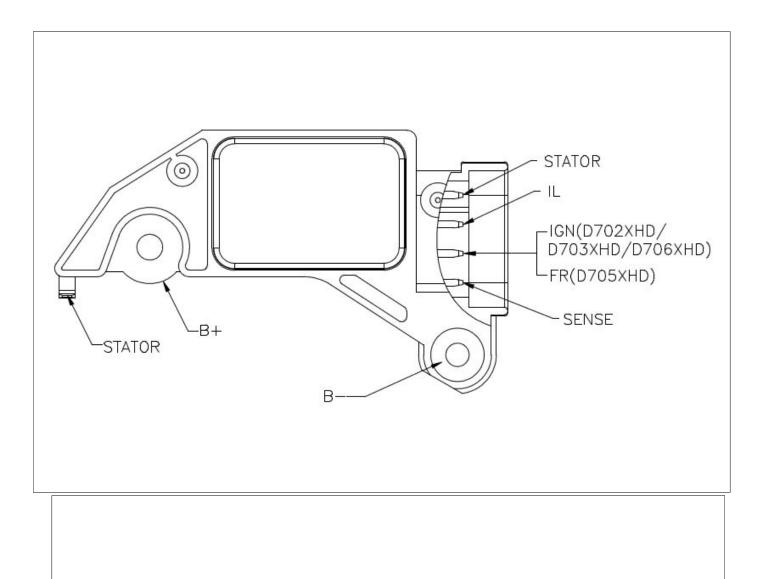
		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D702XHD	В	12	14.5				
D703XHD	В	12	14.5				
D705XHD	В	12	14.7				
D706XHD	В	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "stator". The indicator light will turn on, field lamp will stay on and the meter will indicate approximately 12 volts.

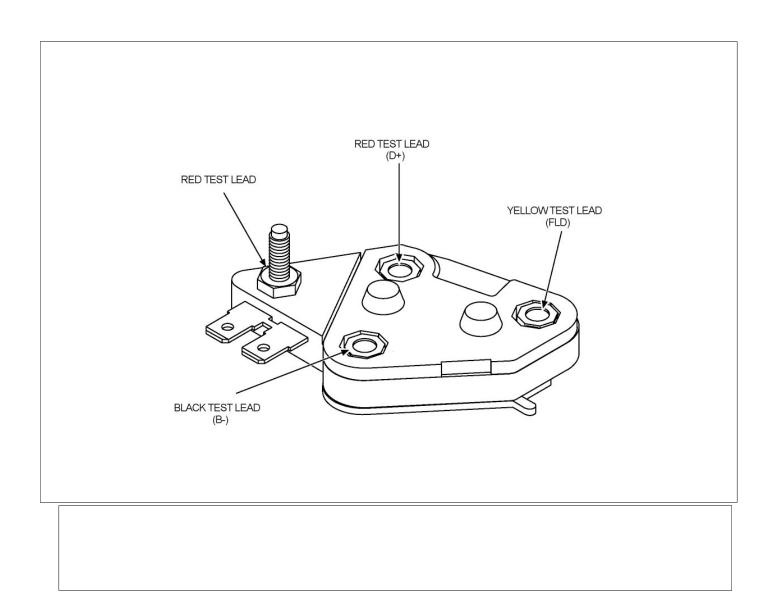
To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 28 Product Group D-29 Revision: 4/26/1905 Date: 1/6/2021

		for	DELCO	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
D33	Α	12	14.1						
D22	Α	12	14.5						

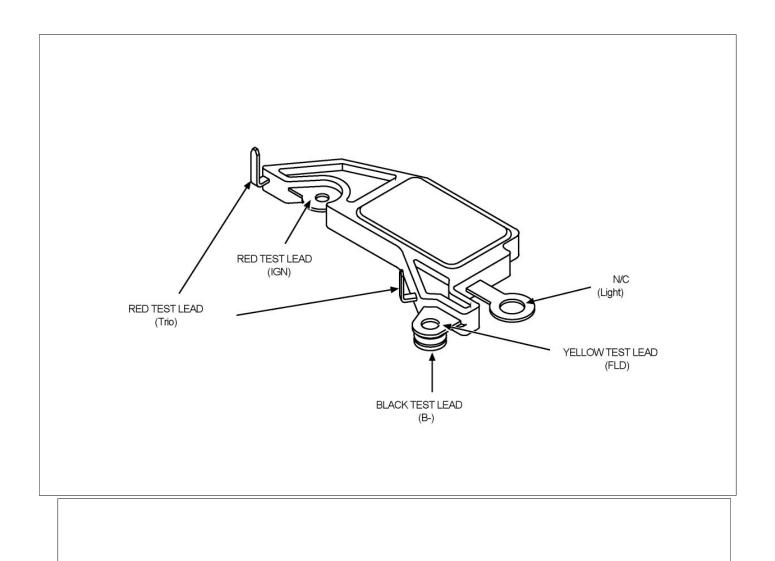
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 29 Product Group D-30 Revision: 10/26/1900 Date : <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D401	Α	24	27.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 30 Product Group D-31 Revision: 4/22/1903 Date : <u>1/6/2021</u>

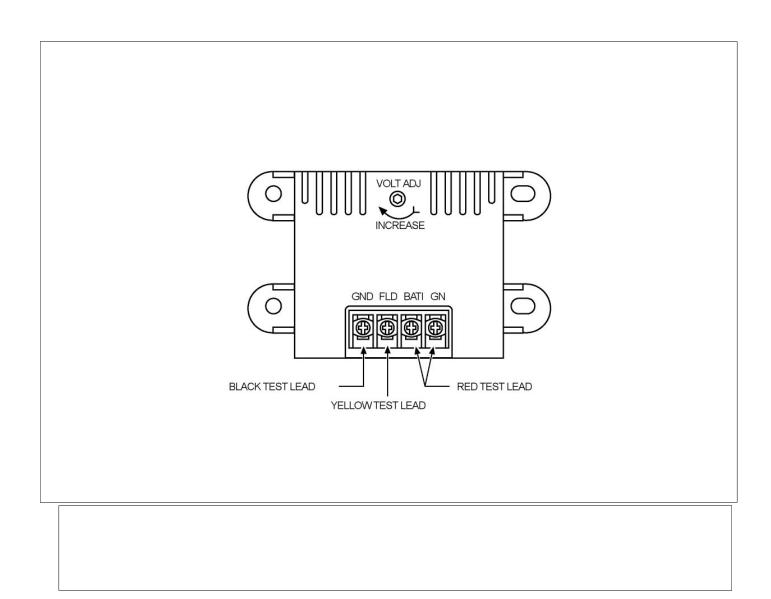
DELCO

for

				3,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D698	В	12	14.2				
D699	В	24	27.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 31 Product Group D-32 Revision: 11/28/1900 Date : <u>1/6/2021</u>

turna ramulatara

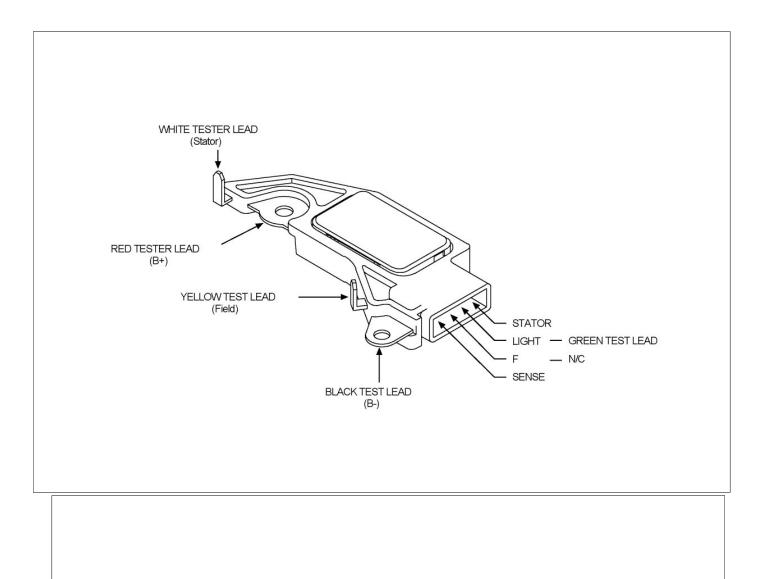
		тог	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D445	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "stator. The indicator light will turn on, field lamp will stay on and the meter will indicate approximately 12 volts.

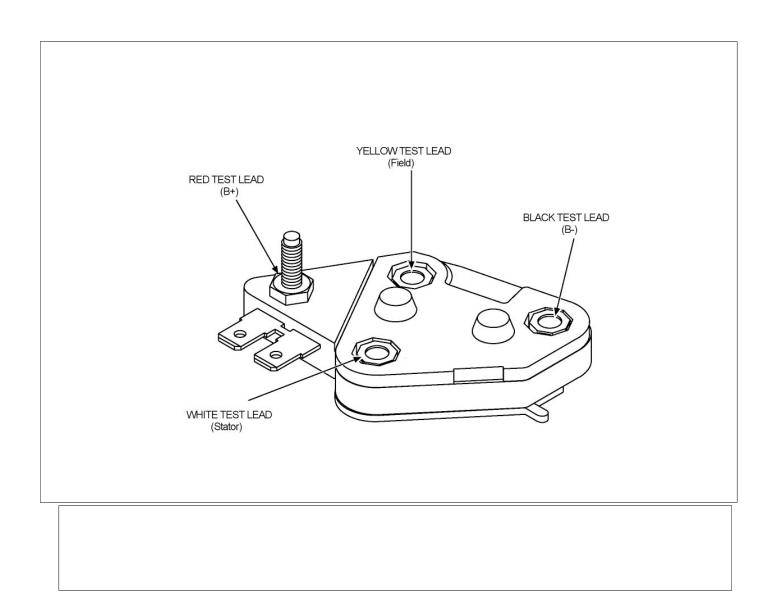
To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 32 Product Group D-33 Revision: 4/26/1905 Date : 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D10AC	В	12	14.2				
D22AC	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 33 Product Group D-37 Revision: 11/27/1900 Date : <u>1/6/2021</u>

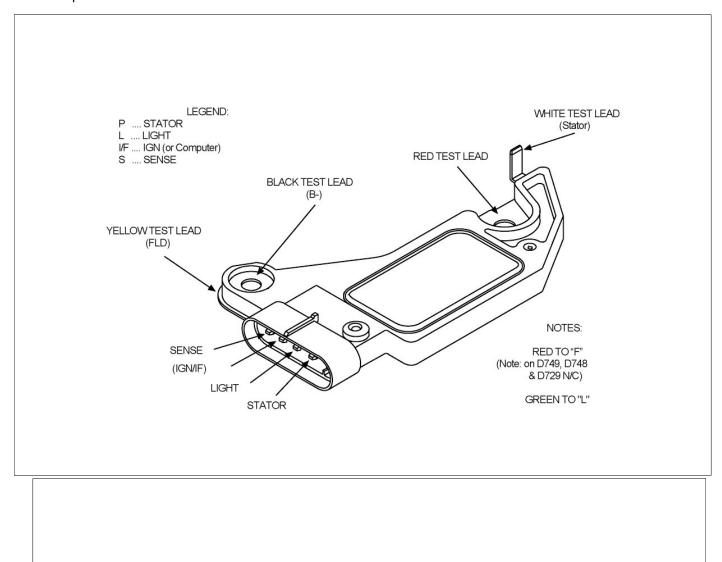
turna ramulatara

		тог	DELCO	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D712	В	12	14.6	D734	В	12	14.6
D718	В	12	14.7	D749	В	12	14.6
D719	В	12	14.75	D748	В	12	14.8
D729	В	12	14.75	D752	В	12	14.7

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "stator". the indicator light will turn on, field lamp will stay on and meter will indicate approximately 12v. Disconnect the test lead from "L" terminal. Regulator will turn off and the meter will indicate 12v. On "I" type voltage regulators, connect the regulators as per diagram below except do not connect the indicator light to the "L" terminal. Connect red test lead to the terminal marked "I/F" and same results as step number 2 should be noticed.



Page 34 Product Group D-34 Revision: 4/26/1905 Date: 1/6/2021

DELCO

for

			71100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D198XHD	В	12	14.8	D203XHD	В	12	14.8
D200XHD	В	12	14.8				
D201XHD	В	12	14.8				
D202XHD	В	12	14.8				

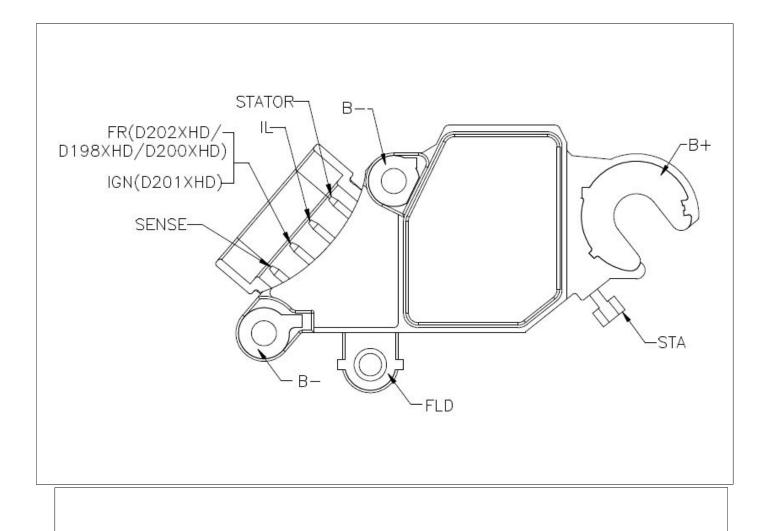
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove Stator terminal, field light stays on voltage reads 12 volts and lamp light comes on. Remove light terminal (and "I" terminal on PLIS type), voltage regulator turns off.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



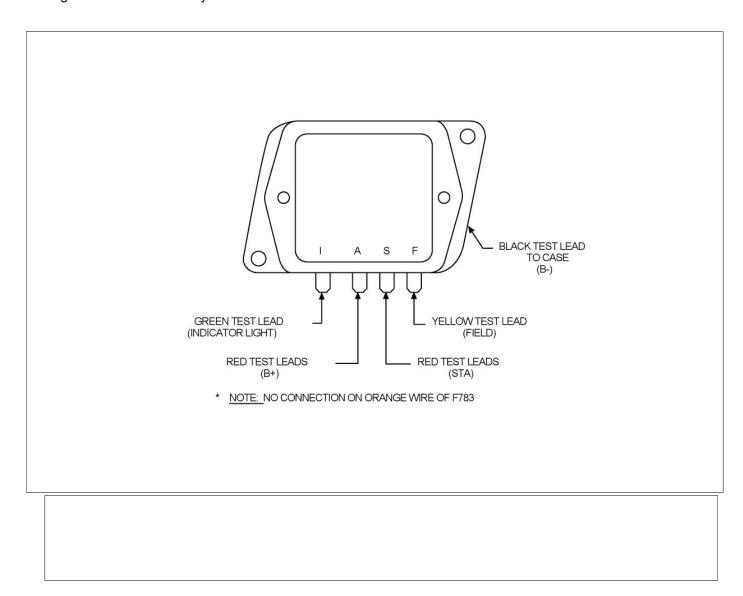
Page 35 Product Group D-35 Revision: 4/26/1905 Date: 1/6/2021

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F540	В	12	14.3	F540SP	В	12	14.2
F540HD	В	12	14.2	F540XHD	В	12	14.2
F540S	В	12	14.3	F782	В	12	14.2
F540SLD	В	12	14.2	F783	В	12	14.3

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red lead from terminal marked "S". Indicator light should turn on and meter will still indicate set point voltage. Removal of test lead from "S" and "I" terminal will result in the field lamp turning off and the meter reading 12V. On Mechanical type regulators (F8512M), the "short circuit" light will also turn on due to the regulator's internal circuitry. Limit this test to a short time.



Page 36 Product Group F-01 Revision: Date: 1/6/2021

FORD

for

				5,600 0 9			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F784	Α	12	14.6	F785	Α	12	14.6
F784HD	Α	12	14.6	F786	Α	12	14.6
F794	Α	12	14.6	F794B	Α	12	14.6
F784B	Α	12	14.6	F795	Α	12	14.6

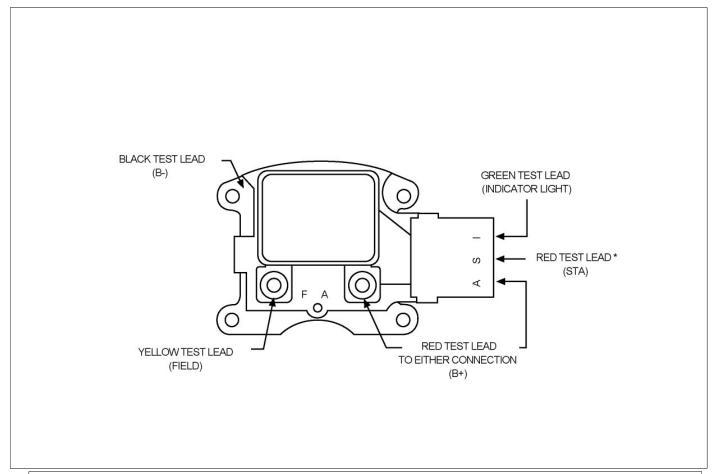
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator light should turn on and the meter will still indicate the set point voltage. Removal of test of leads from "S" and "I" will result in field lamp turning off and the meter reading 12V.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



NOTE: On Transpo's F786 & F795 connect white test lead to terminal marked "S".

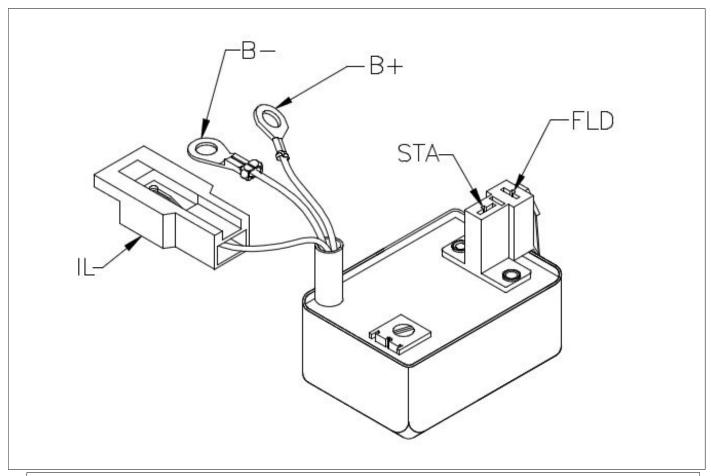
Page 37 Product Group F-03 Revision: 4/26/1905 Date: 1/6/2021

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F733L	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "stator". Field lamp should turn off and the meter will indicate low voltage. On F733L regulator, removal of white test lead will result in indicator light turning on.



* NOTE: No Yellow wire for F733

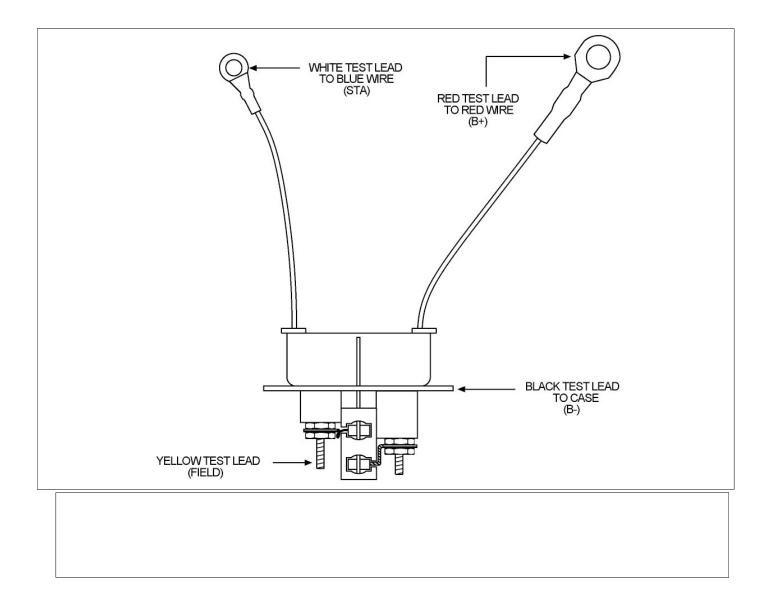
Page 38 Product Group F-05 Revision: Date: 1/6/2021

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
FB123	В	12	14.2				
FB303	В	12	14.2				
FB309	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from blue wire of the regulator. Field lamp should turn off and the meter will indicate 12V.



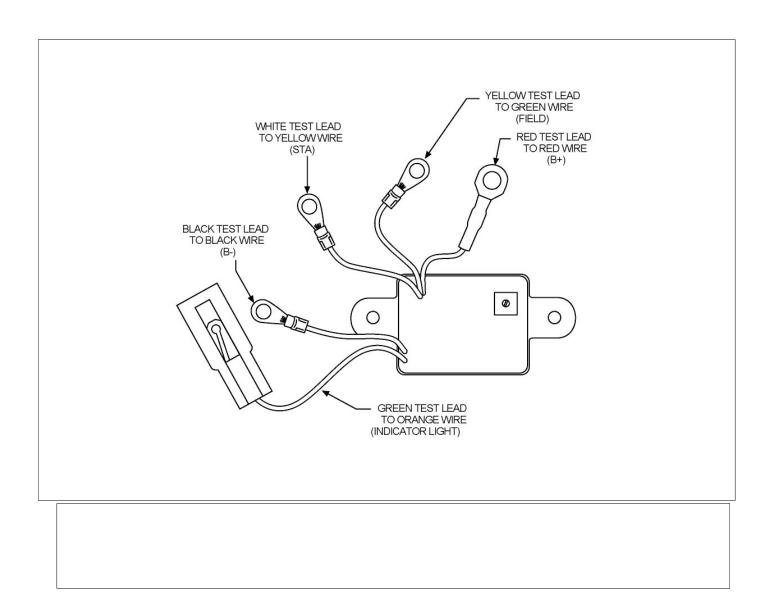
Page 39 Product Group F-06 Revision: Date : <u>1/6/2021</u>

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F7078	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator". Field lamp should turn off, indicator light will turn on and the meter will indicate low voltage.



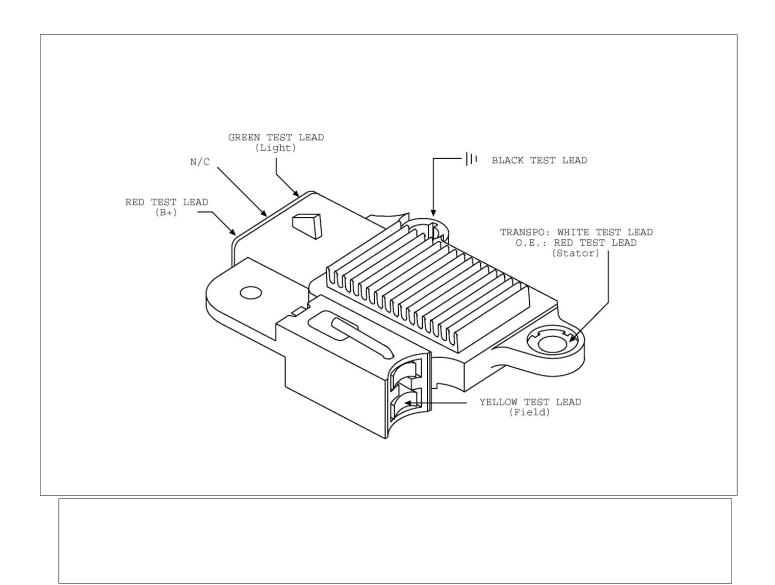
Page 40 Product Group F-07 Revision: Date : 1/6/2021

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F796	Α	12.0	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



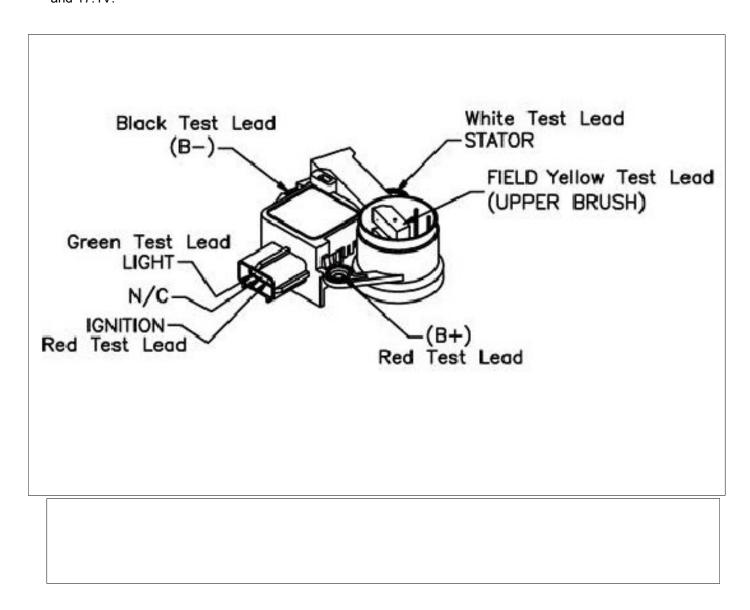
Page 41 Product Group F-08 Revision: 4/26/1905 Date : <u>1/6/2021</u>

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F600	Α	12.0	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator", field light stays on, voltage remains at 14.3 volt and indicator light turns on. Remove green test lead from "Light" terminal, field light and 12.0 volt light turn off. To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



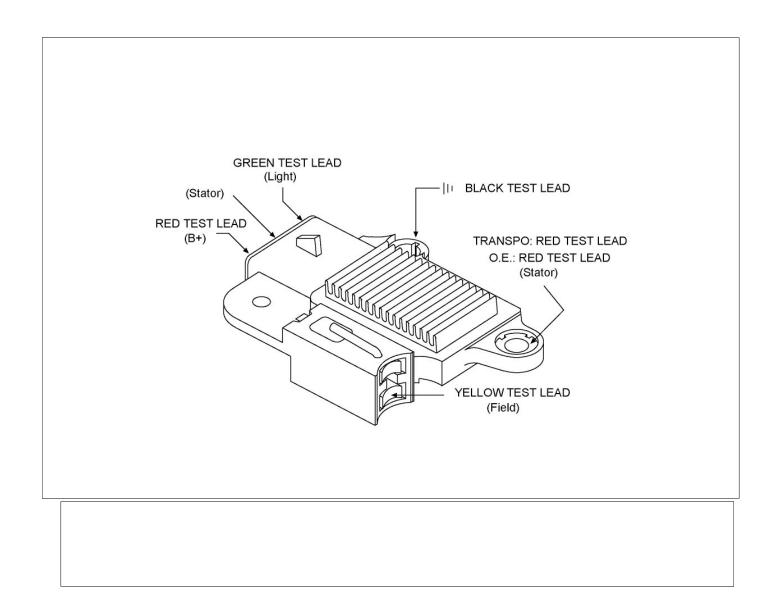
Page 42 Product Group F-09 Revision: 4/26/1905 Date: 1/6/2021

		for	FORD	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F798	Α	12.0	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from stator and voltage will remain the same and 12 volt lamp will come on. To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 43 Product Group F-10 Revision: 4/26/1905 Date: 1/6/2021

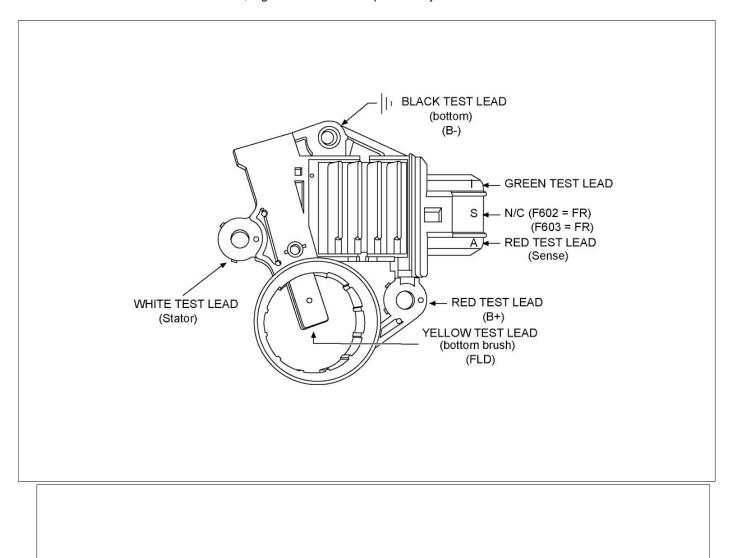
		for	FORD	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F602	Α	12.0	14.4				
F603	Α	12.0	14.4				
F605	Α	12.0	14.4				
F606	Α	12.0	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator", field light stays ON. On F602 voltage drops to 12.0 volts and indicator light turns ON. On F603 voltage stays at 14.4 volts and lamp turns ON. Remove green test lead from "Light" terminal, field light and lamp turn OFF.

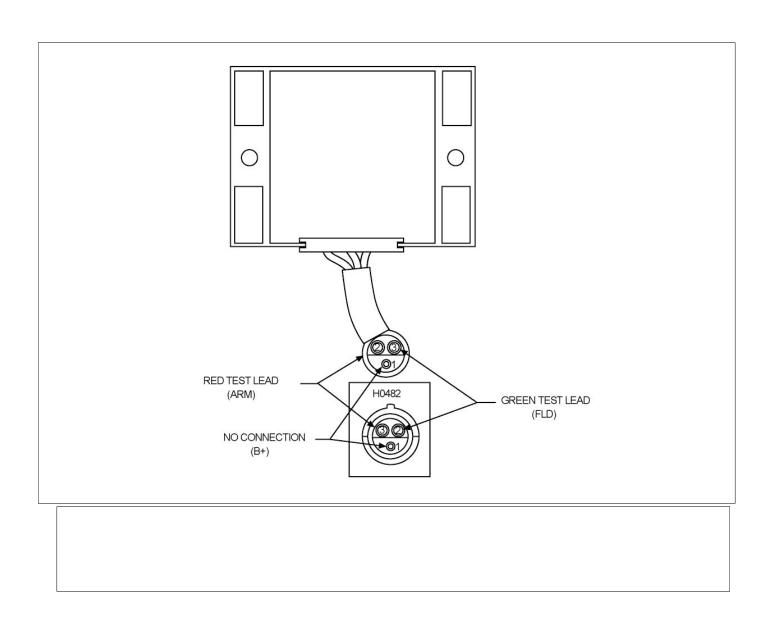
To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Note: F605 Disconnect sense terminal, regulator should read approximately 14.8V.



Page 44 Product Group F-11 Revision: 8/30/1906 Date: <u>1/6/2021</u>

		for	HARLEY	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
H0478	Α	12	15.1				
H0482	А	12	15.1				

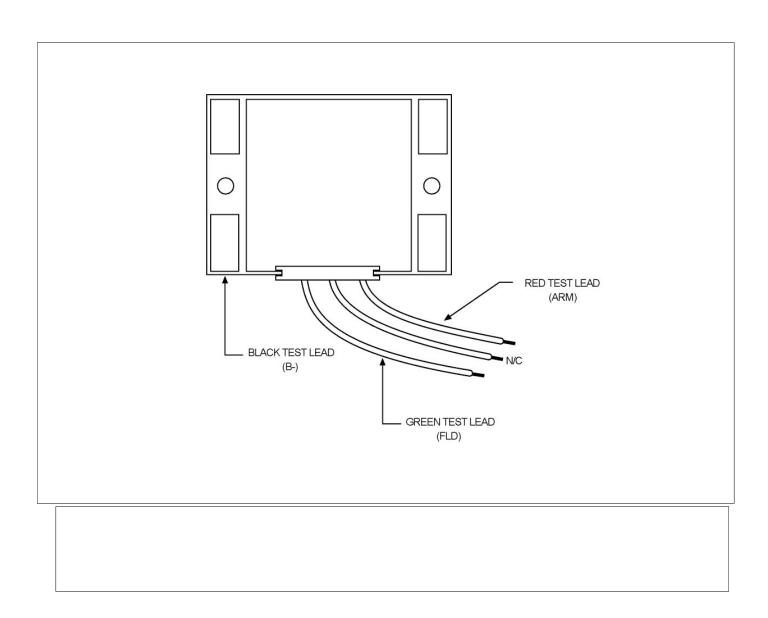
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 45 Product Group H-01 Revision: Date : 1/6/2021

		for	HARLEY	type regulate				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
H606	Α	6	7.5					
H614	Α	12	15.1					

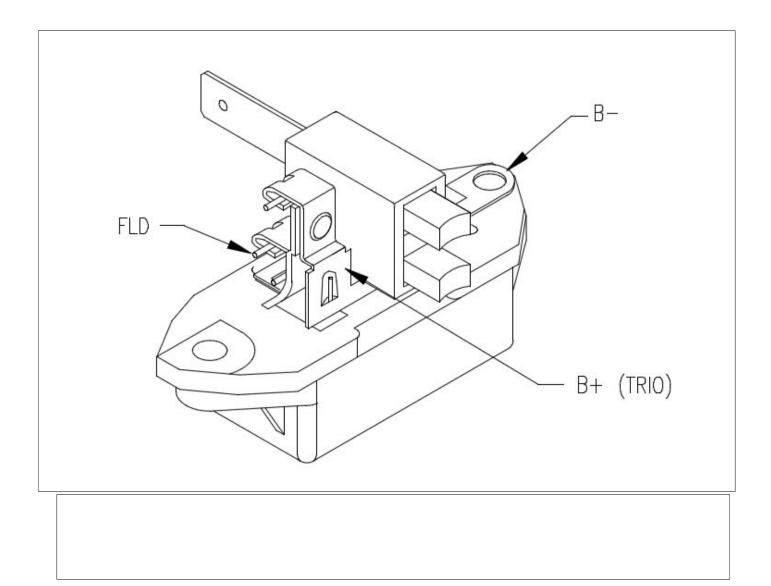
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 46 Product Group H-02 Revision: 5/28/1904 Date : <u>1/6/2021</u>

		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB371	Α	12	14.2				

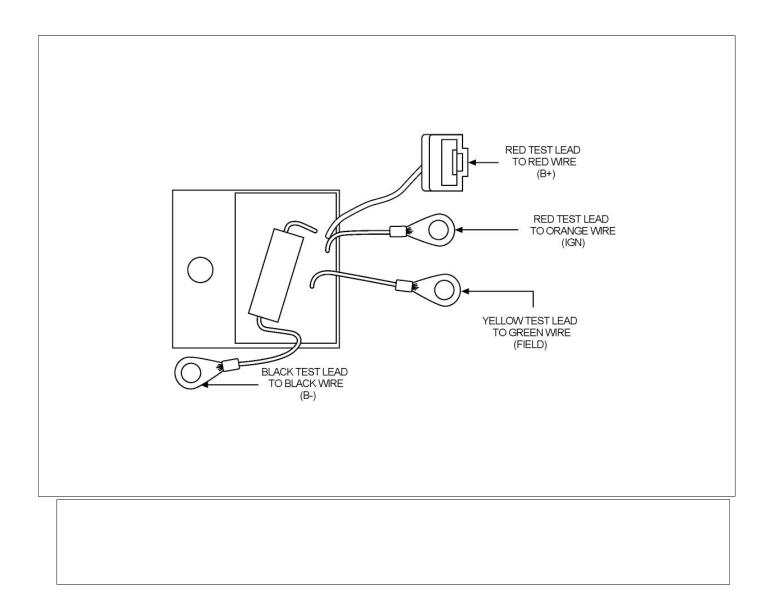
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 47 Product Group IB-01 Revision: 5/18/1905 Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB8315	Α	12	14.2				

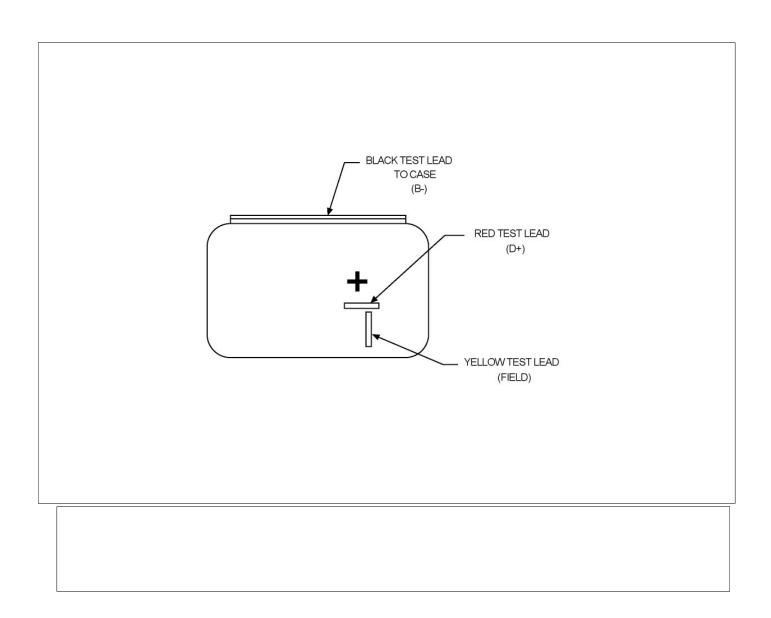
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 48 Product Group IB-03 Revision: Date : 1/6/2021

		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB303	В	12	14.4				
IB303A	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 49 Product Group IB-05 Revision: Date : 1/6/2021

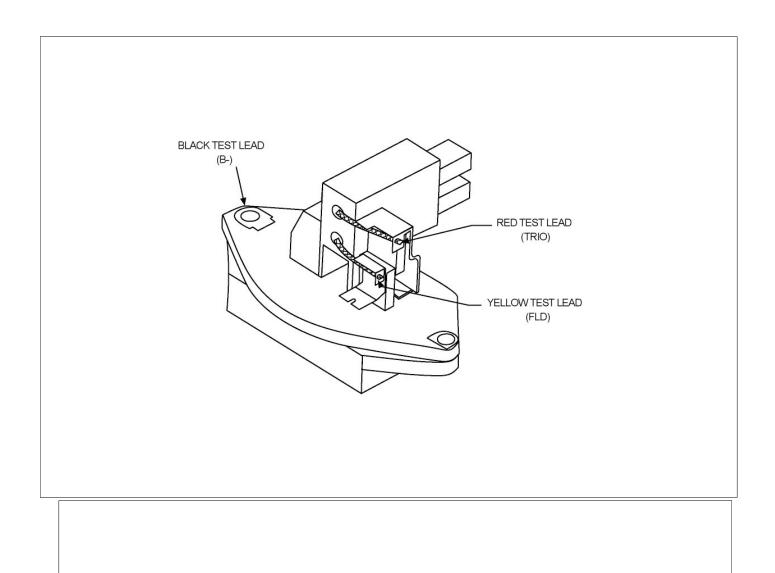
type regulators

BOSCH

for

				3,60009			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB375	Α	12	14.4	IB379	Α	24	28.1
IB376	Α	24	27.5	IB374	Α	24	27.5
IB377	Α	12	14.4				
IB378	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 50 Product Group IB-06 Revision: 10/20/1997 Date : <u>1/6/2021</u>

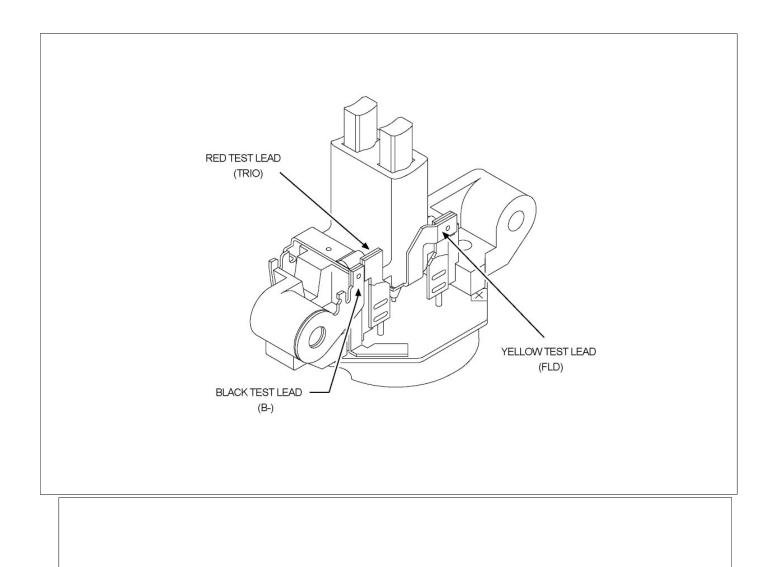
type regulators

BOSCH

for

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB380	Α	12	14.4	IB387	Α	12	14.5
IB383	Α	12	14.4				
IB384	Α	12	14.4				
IB385	Α	12	14.5				

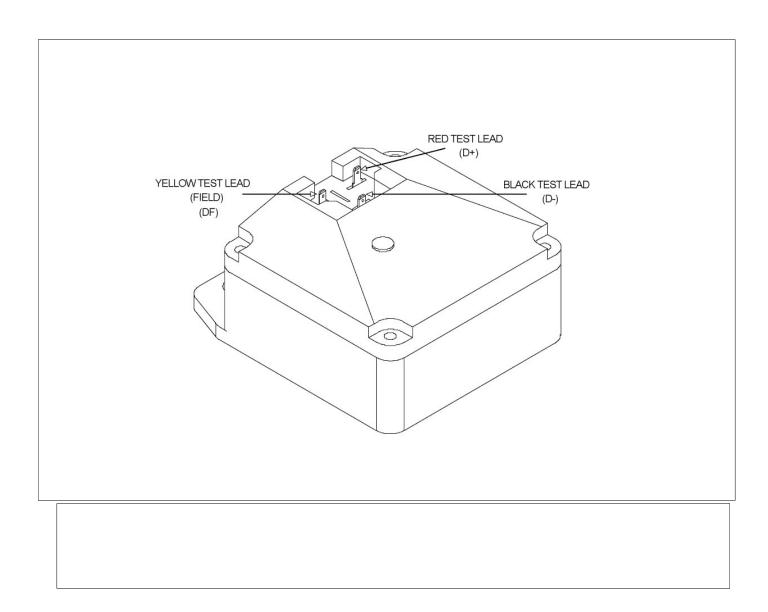
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 51 Product Group IB-07 Revision: 1/7/1902 Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB033A	В	24	28.3				

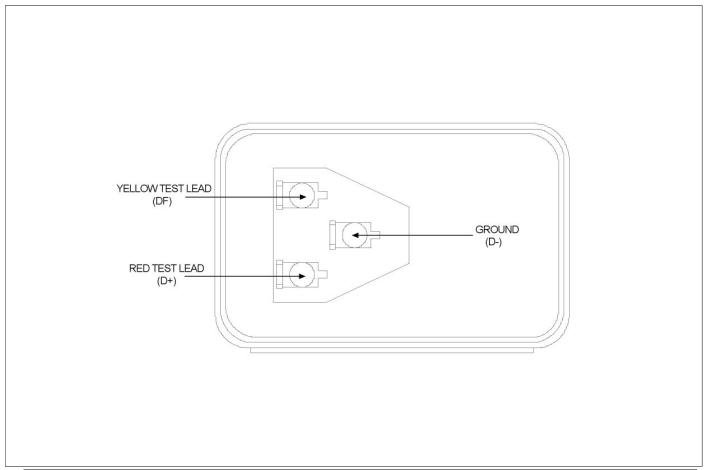
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 52 Product Group IB-08 Revision: Date : 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB305	В	12	14.8				
IB306	В	12	14.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

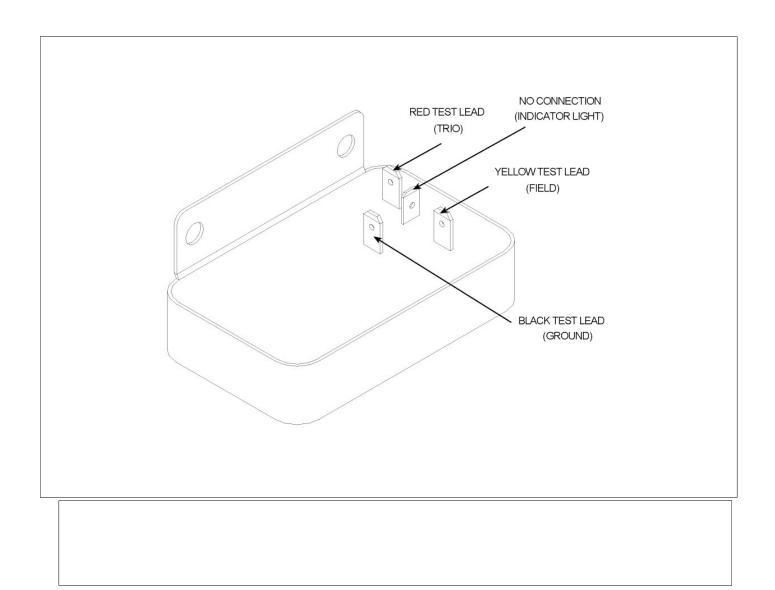


NOTE: IB306 Superseded by IB305-1

Page 53 Product Group IB-09 Revision: 3/15/1902 Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB308	В	24	28.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 54 Product Group IB-10 Revision: 5/20/1907 Date : <u>1/6/2021</u>

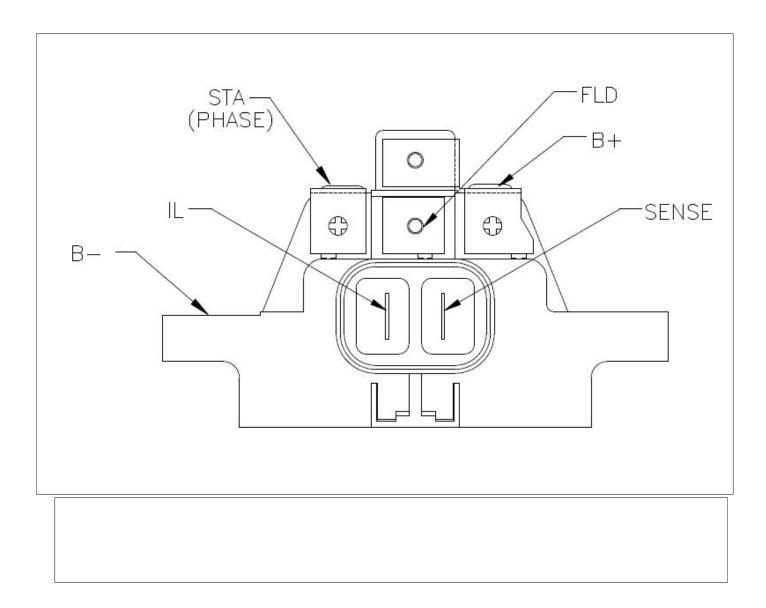
		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB343	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "STA"; meter will indicate set point and lamp light will come on. Reconnect the white test lead. Remove red test lead from the terminal marked "SENSE", the meter will indicate 12V, field lamp will stay on and lamp light will come on. Remove green test lead; field and lamp light will turn off.

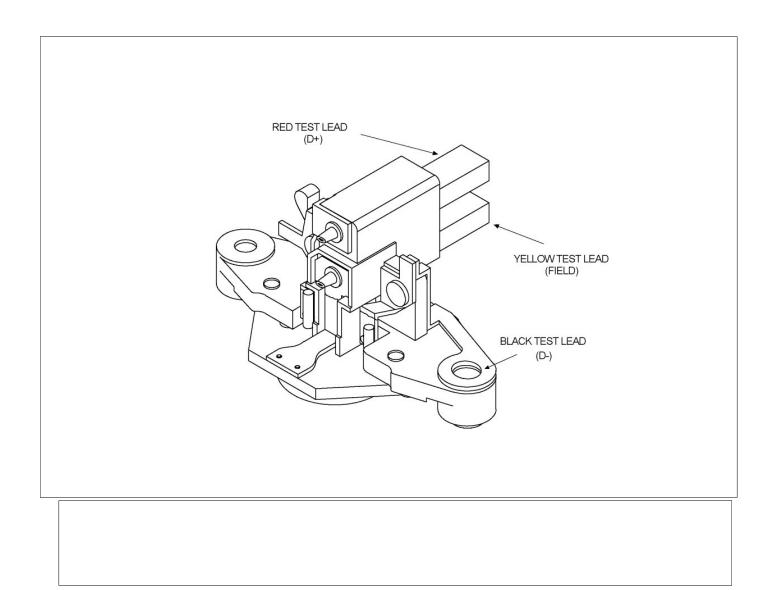
To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 55 Product Group IB-11 Revision: 4/26/1905 Date: 1/6/2021

		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB348	Α	12	15.0	IB353	Α	12	14.5
IB350	Α	12	14.1	IB354	Α	12	14.1
IB351	Α	12	14.5	IB355	Α	12	14.5
IB352	Α	12	14.1	IB356	Α	12	14.8

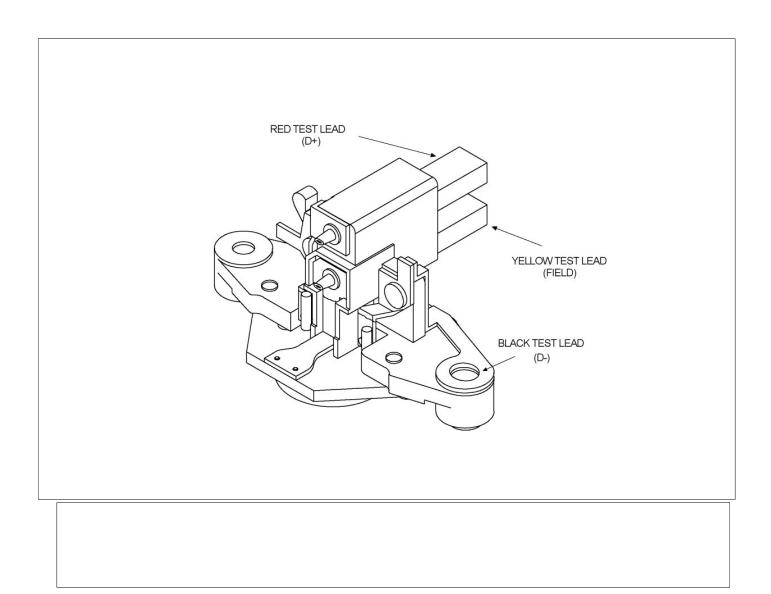
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 56 Product Group IB-12 Revision: 3/26/1904 Date : <u>1/6/2021</u>

		tor	BOSCH	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB370	Α	12	14.5				
IB370A	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 57 Product Group IB-13 Revision: 3/26/1902 Date : <u>1/6/2021</u>

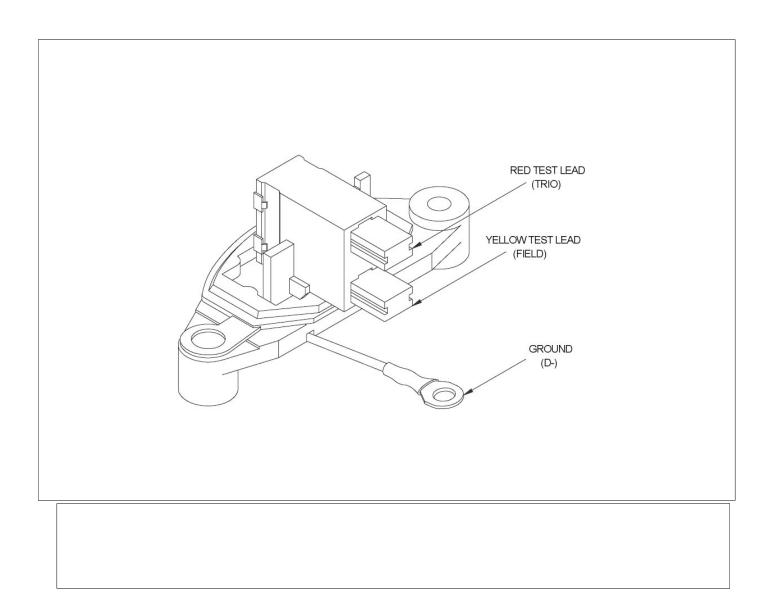
type regulators

BOSCH

for

					0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB365	А	24	28.5				

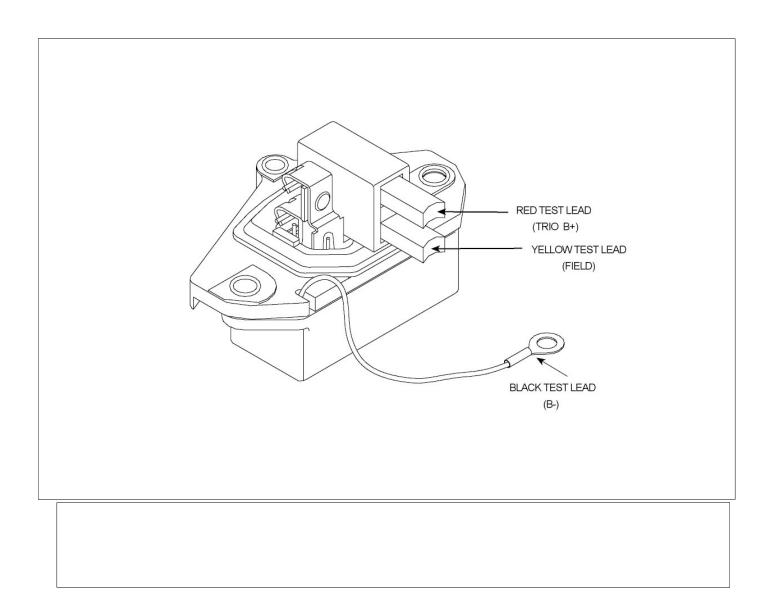
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 58 Product Group IB-14 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB386	Α	28	28				

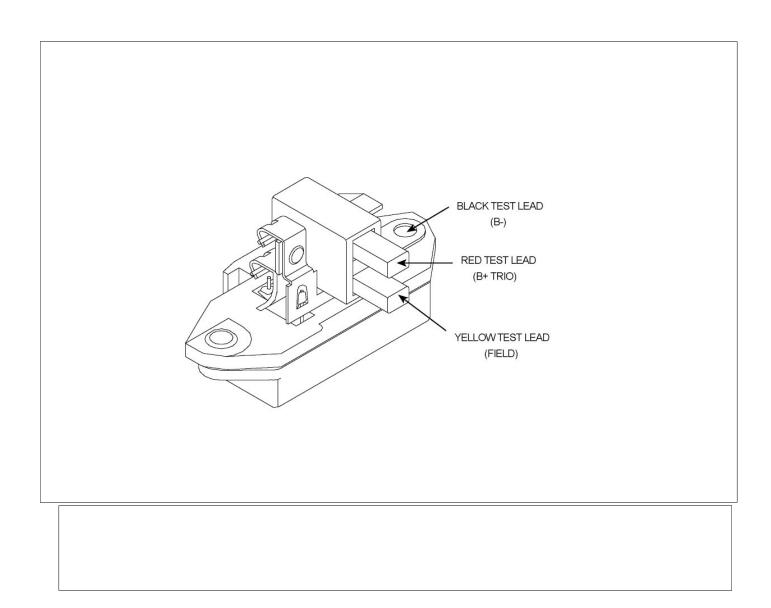
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 59 Product Group IB-15 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB398	Α	12	14.5				

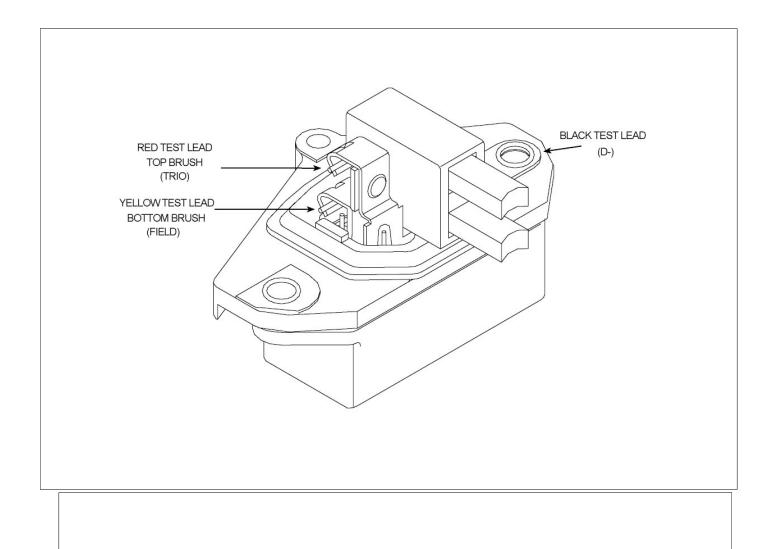
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 60 Product Group IB-16 Revision: 10/20/1997 Date : <u>1/6/2021</u>

		for	воѕсн	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB382	Α	24	28.8				
IB381	Α	24	28.1				
IB316	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 61 Product Group IB-17 Revision: 8/30/1906 Date : <u>1/6/2021</u>

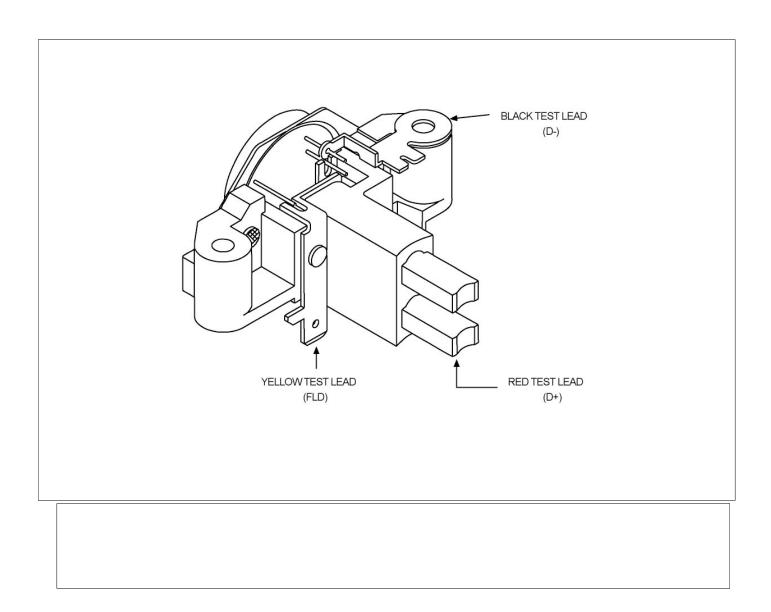
BOSCH

for

				3,60009			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB511	Α	12	14.5				

type regulators

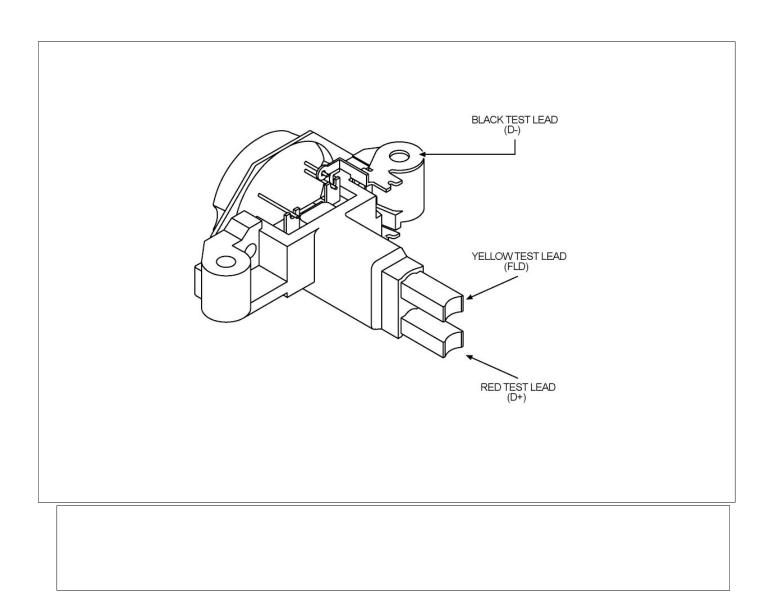
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 62 Product Group IB-18 Revision: 3/10/1999 Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB512	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 63 Product Group IB-19 Revision: 3/9/1999 Date : <u>1/6/2021</u>

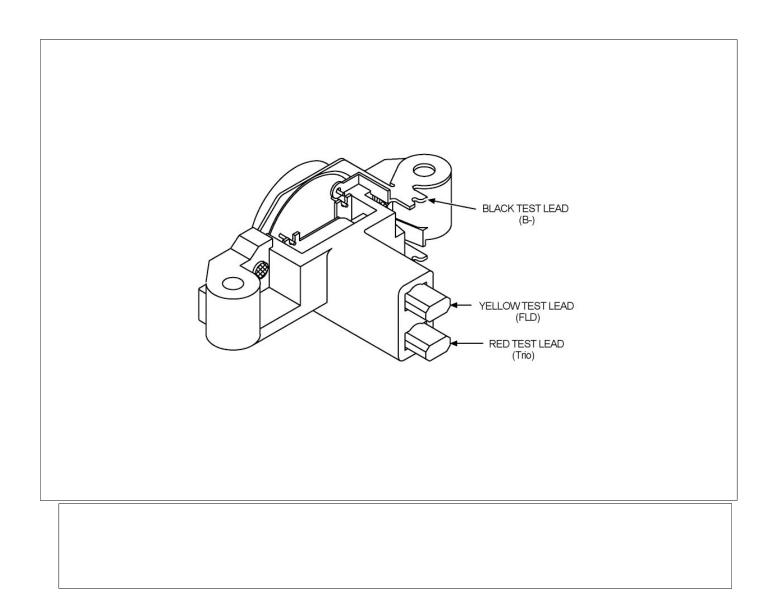
type regulators

BOSCH

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB388	Α	12	14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 64 Product Group IB-20 Revision: 3/10/1999 Date : <u>1/6/2021</u>

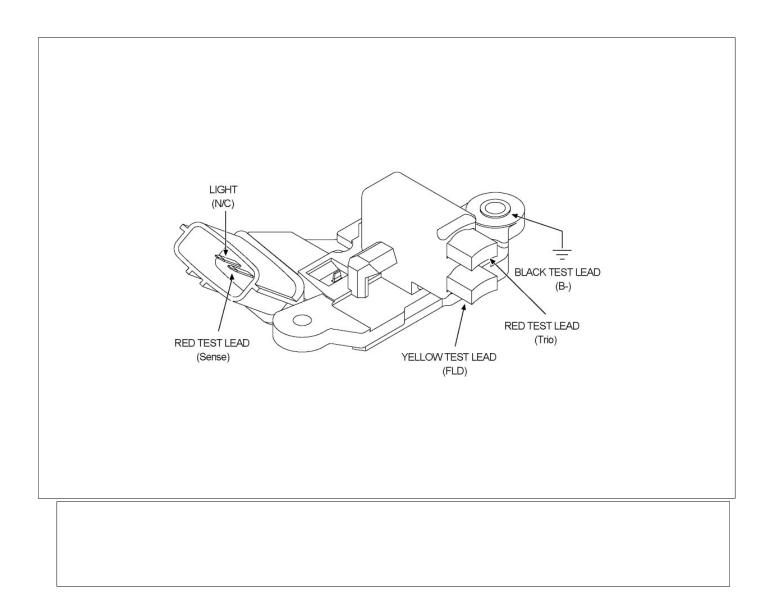
BOSCH

for

				, po . o ganati	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB501	A	12	14.3				

type regulators

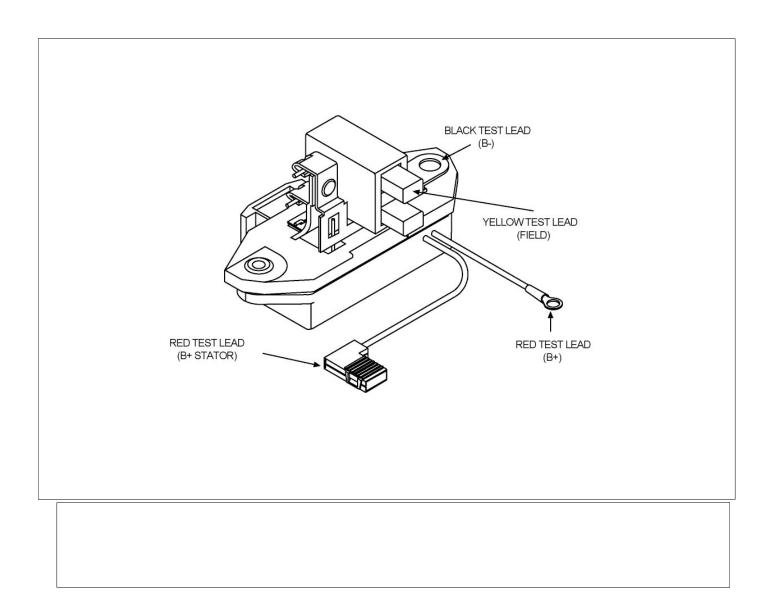
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 65 Product Group IB-21 Revision: 12/3/1999 Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB399	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 66 Product Group IB-22 Revision: 11/28/1900 Date : <u>1/6/2021</u>

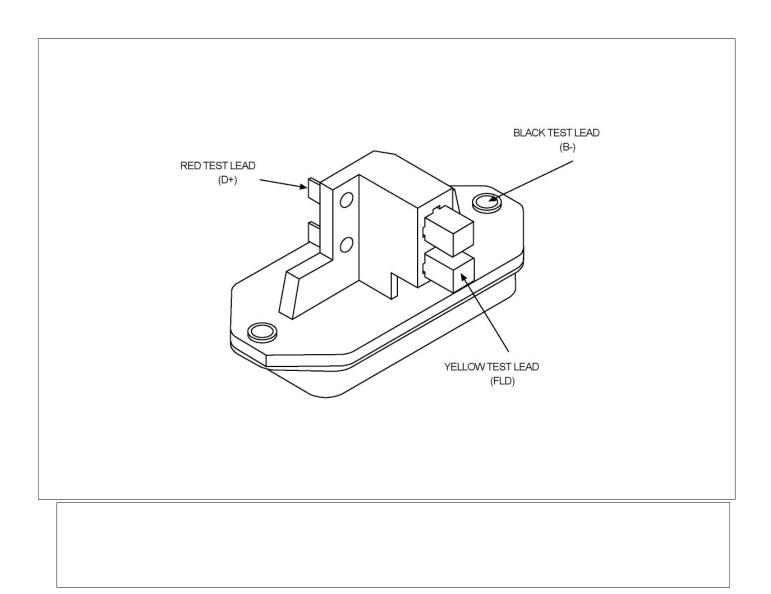
BOSCH

for

				, po . o ganati			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB400	A	12	14.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 67 Product Group IB-23 Revision: 11/28/1900 Date : <u>1/6/2021</u>

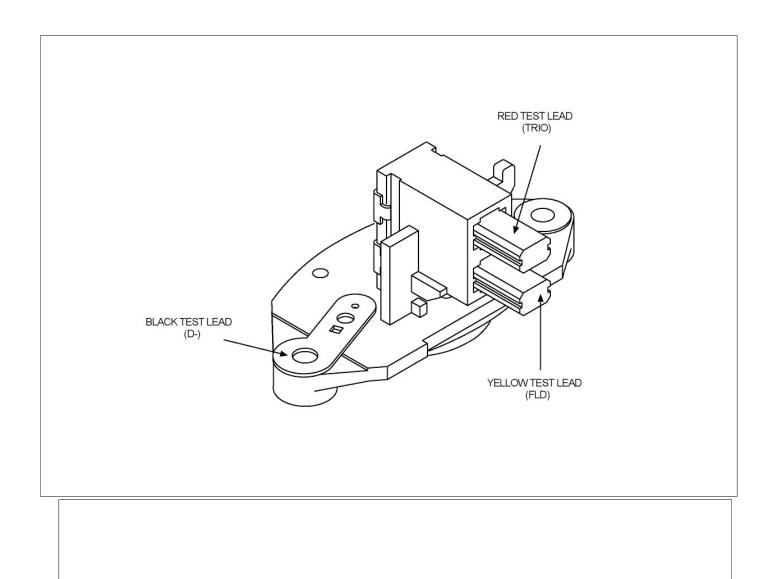
type regulators

BOSCH

for

		··· —	2000		. •		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB360	Α	12	14.1	IB364	Α	24	29.0
IB368	Α	12	14.1	IB369	Α	24	28.0
IB362	Α	24	28.00	IB366-1	Α	24	28.5
IB363	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 68 Product Group IB-25 Revision: 4/22/1903 Date : <u>1/6/2021</u>

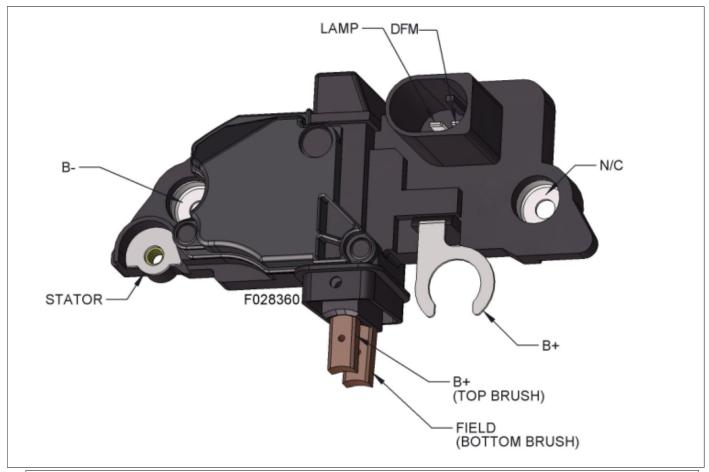
		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB247	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

- Push the Choke switch and the "Choke Drive" will turn on.
- Remove white test lead from terminal marked "Stator" the Field light and Lamp will come on and Voltage will show 12 volts.
- Remove green test lead from "light" terminal , field light will go out and voltage stays at 12 volts.



- To check IB247 for Over Voltage using VRC2010, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.
- L-FR Terminals With LRC and Soft Start Active Lamp Circuit with Output

NOTE: VRC101-34 adapter shown for enhance stator signal, not all late model regulators need enhance signal

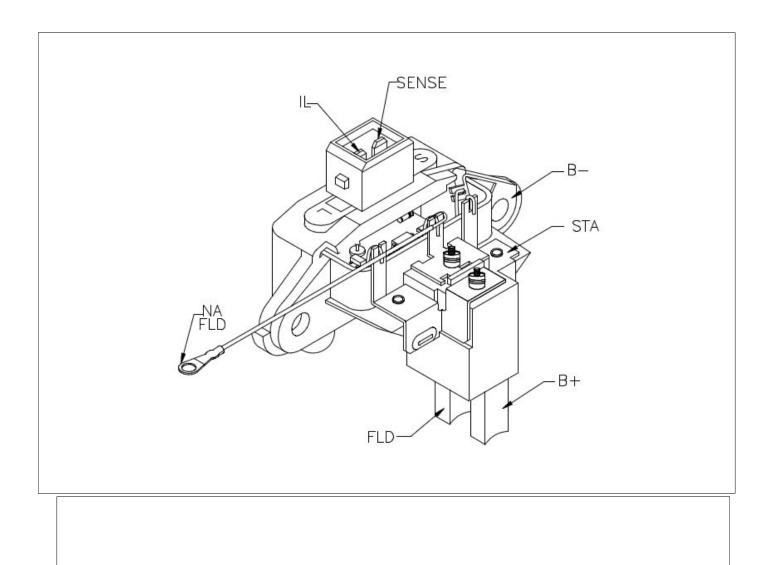
Page 69 Product Group IB-26 Revision: 11/2/2003 Date: 1/6/2021

		for	BOSCH type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB392	Α	12	14.4				
IB391	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove Red test lead from terminal marked "STA". lamp comes on and the meter will indicate set point voltage. Reconnect the white test lead. Remove red test lead from the terminal marked "S", field lamp will turn on, the indicator light will turn on and the meter will indicate 12V.



Page 70 Product Group IB-04 Revision: 4/26/1905 Date: 1/6/2021

for DELCO STAR II & STAR type regulators

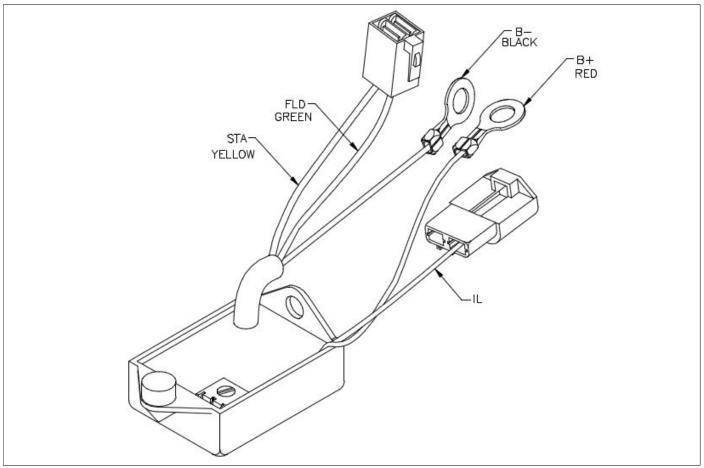
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D7011	В	6	7.8				
D7012	В	8	9.6				
D7014	В	12	14.2				
D7016	В	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect white test lead (Stator) from regulator's yellow wire. Field lamp should turn "OFF" and the meter will indicate the original voltage range in step one.

Note: Indicator light will turn "ON" on part numbers: D7011, D7014, D7016, D7041.



Regulator Wire	Test Lead Wire	<u>Function</u>
Red	Red	Battery Positive
Black	Black	Battery Negative
Green	Yellow	Field
Yellow	White	Stator

Page 71 Product Group ST-D-42 Revision: Date: 1/6/2021

for DELCO STAR II & STAR type regulators

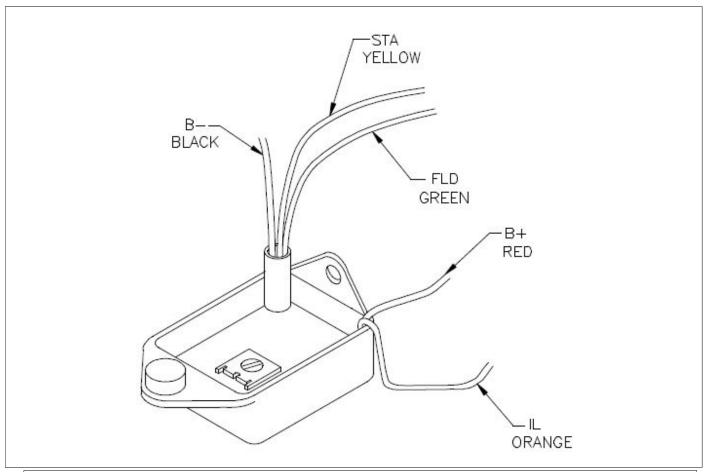
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D7044	В	12	14.7				
D7024	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect white test lead (Stator) from regulator's yellow wire. Field lamp should turn "OFF" and the meter will indicate the original voltage range in step one.

Note: Indicator light will turn "ON" on part numbers: D7044, D7021, D7024, D7026.



Regulator Wire	Test Lead	<u>Function</u>	
Red	Red	Battery Positive	
Black	Black	Battery Negative	
Green	Yellow	Field	
Yellow	White	Stator	

Page 72 Product Group ST-D-43 Revision: Date: 1/6/2021

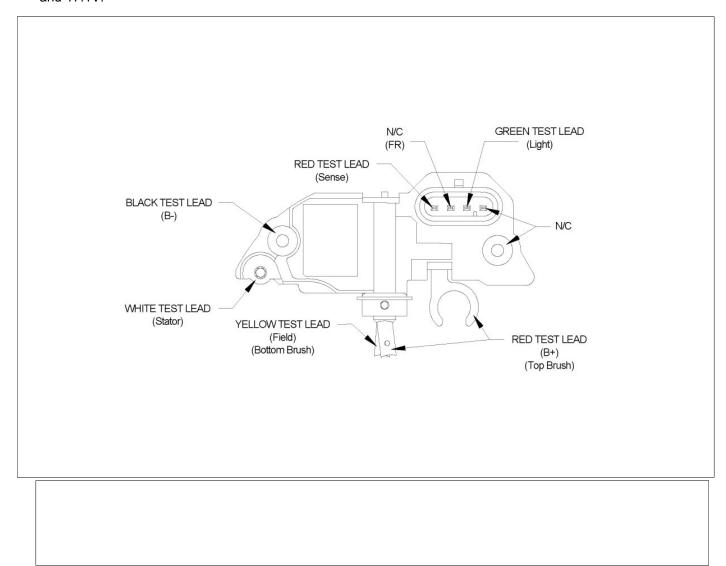
		for	воѕсн	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IB241	Α	12	14.4						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator" volts will drop to 12 volts; field light and lamp light will come on. Remove green test lead from terminal marked "light", field and lamp light will go out and voltage remains at 12 volts.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 73 Product Group IB-27 Revision: 4/26/2005 Date: 1/6/2021

type regulators

DUCELLIER

for

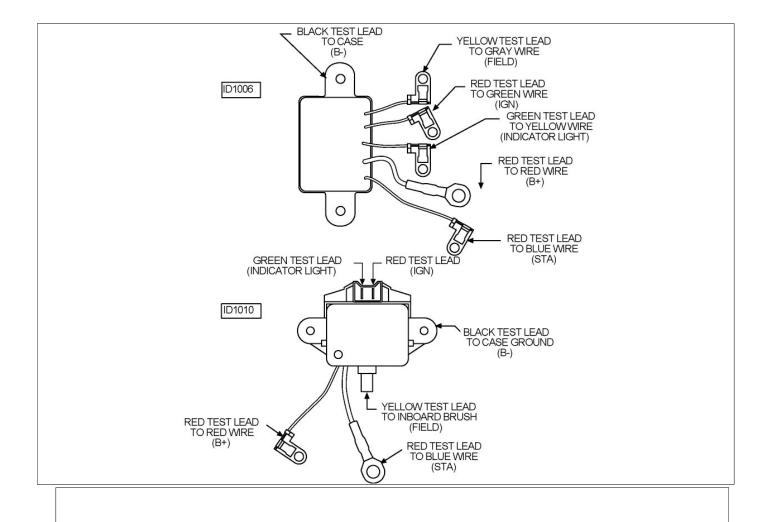
				3,60000			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
ID1006	Α	12	14.3				
ID1010	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from the blue wire of the regulator. Indicator light should turn on and the meter will still indicate the set point voltage.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.

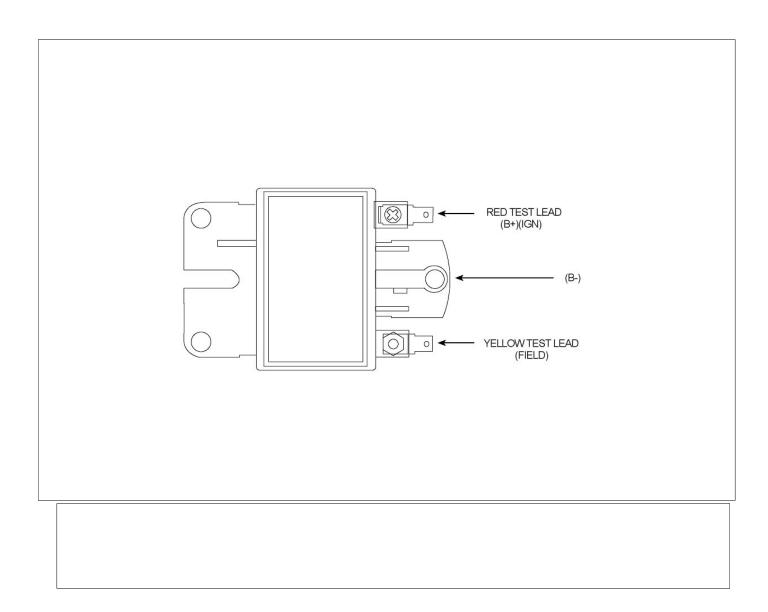


Page 74 Product Group ID-01 Revision: 4/26/1905 Date: 1/6/2021

DUCELLIER

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

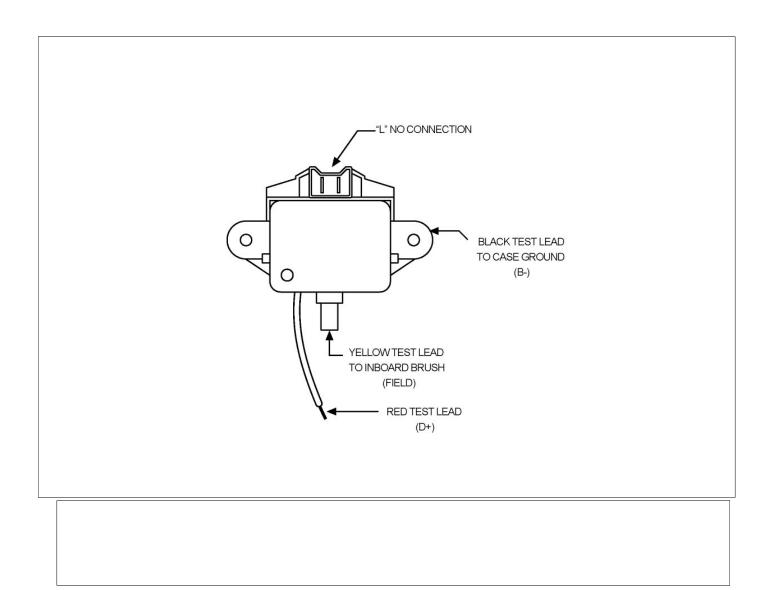


Page 75 Product Group ID-02 Revision: 6/25/1998 Date : <u>1/6/2021</u>

DUCELLIER type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
ID1015	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 76 Product Group ID-03 Revision: 5/1/1997 Date : <u>1/6/2021</u>

DUCELLIER

for

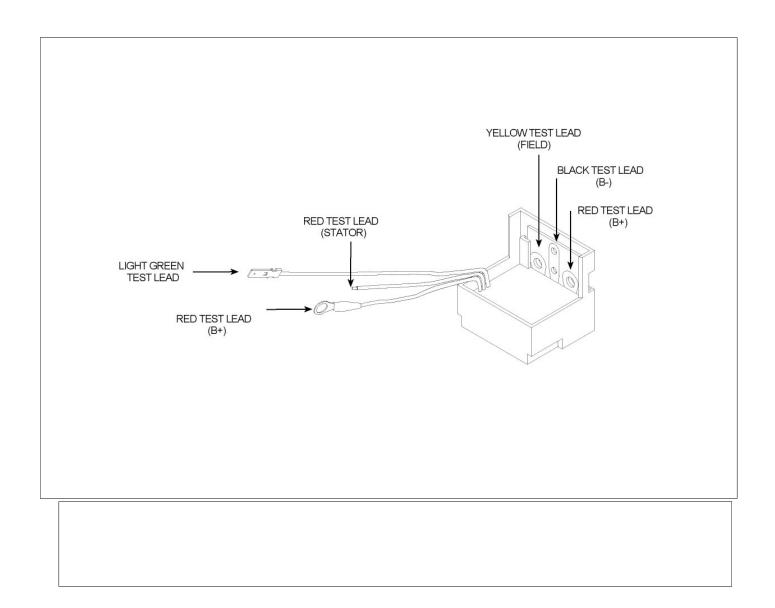
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
ID1004	Α	14	14.3				
ID1016	Α	14	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect red test lead from stator (blue) wire indicator lamp will come on regulator will continue to read 14.4/14.5 volts. Reconnect stator lead and lamp will go out.



Page 77 Product Group ID-04 Revision: 5/1/1997 Date: 1/6/2021

type regulators

DUCELLIER

for

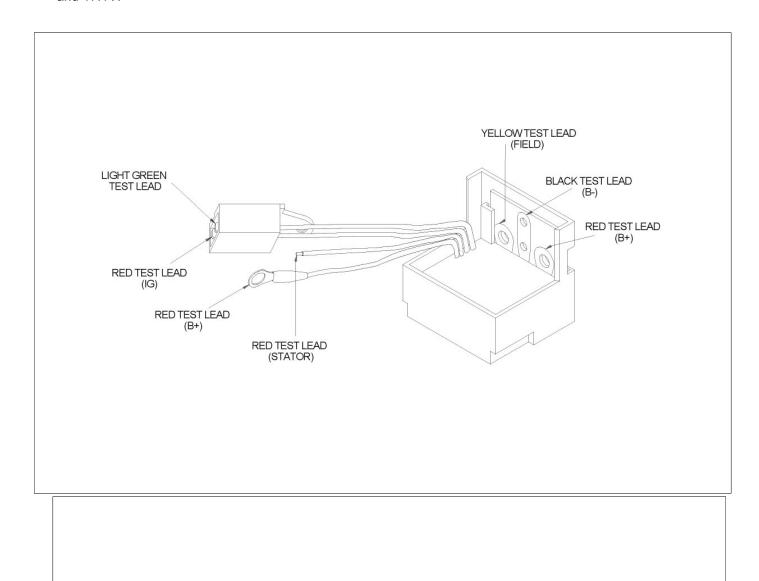
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
ID1007	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect red test lead from stator (blue) wire indicator lamp will come on regulator will continue to read 14.4/14.5 volts. Reconnect stator lead and lamp will go out.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 78 Product Group ID-05 Revision: 4/26/1905 Date: 1/6/2021

type regulators

DUCELLIER

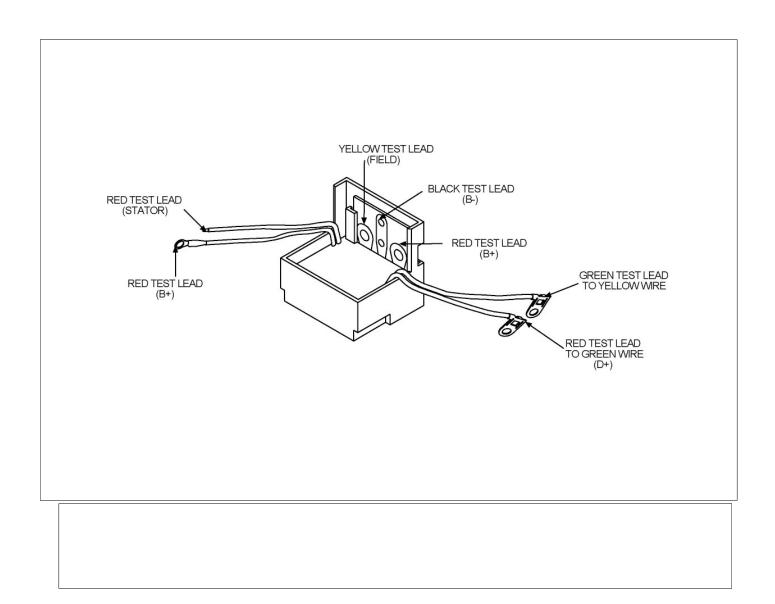
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
ID1011	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect red test lead from stator (blue) wire indicator lamp will come on regulator will continue to read 14.4/14.5 volts. Reconnect stator lead and lamp will go out.



Page 79 Product Group ID-06 Revision: 5/1/1997 Date: 1/6/2021

DUCELLIER

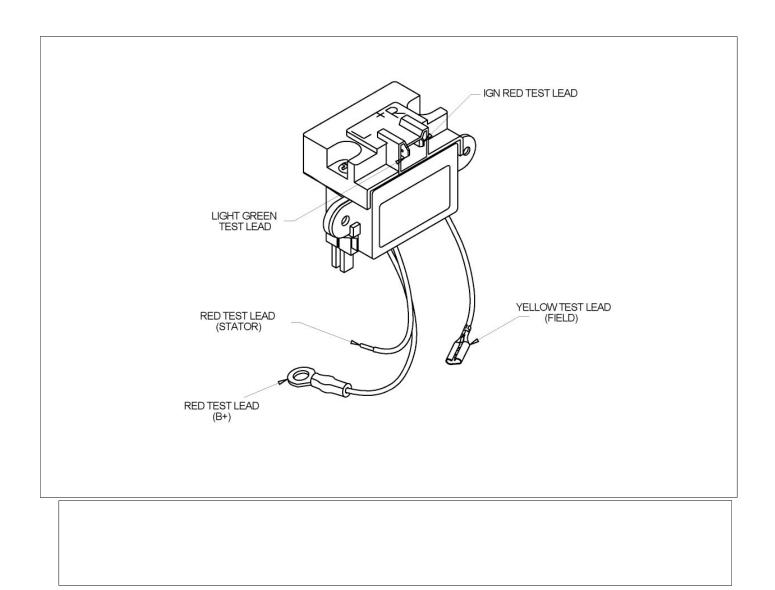
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
ID1018	Α	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

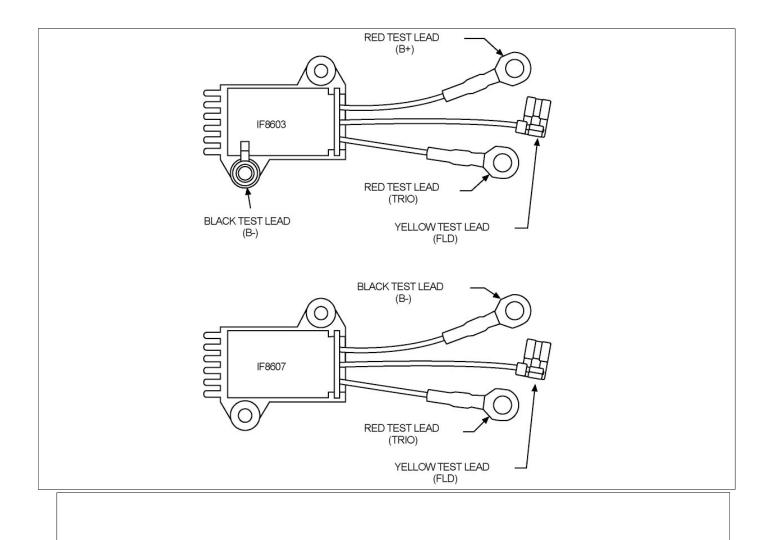
Remove red test lead from the blue wire of the regulator. Indicator light should turn on the meter will still indicate the set point voltage.



Page 80 Product Group ID-07 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	FEMSA	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IF8603	Α	12	14.7				
IF8607	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

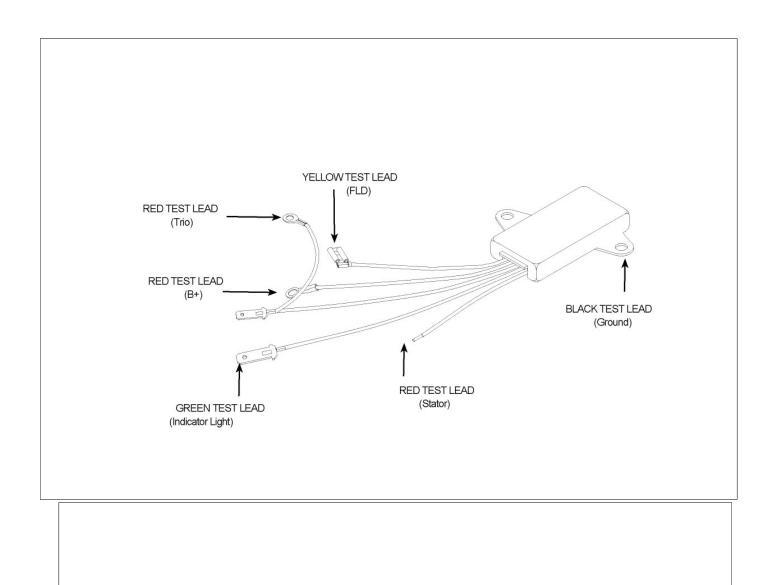


Page 81 Product Group IF-01 Revision: 5/1/1997 Date : 1/6/2021

		for	FEMSA	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IF5442	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

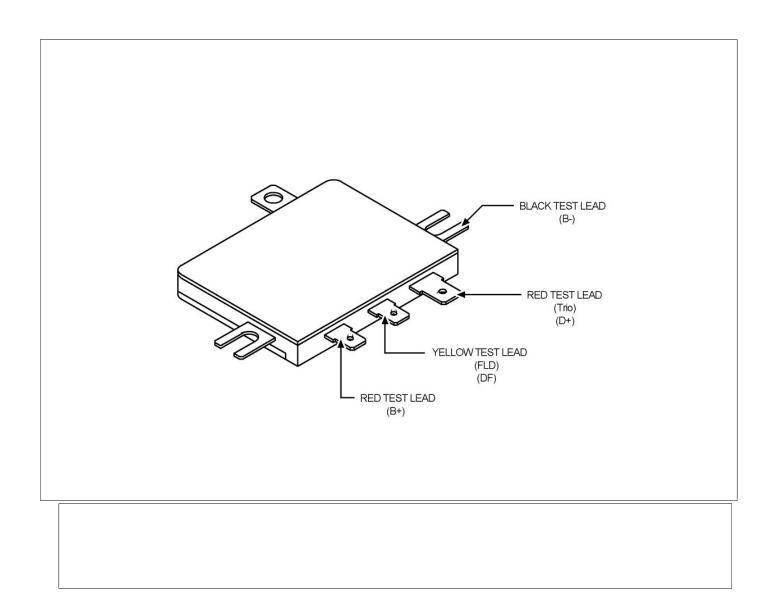
Remove red lead from terminal marked stator. Indicator light will come on, reconnect. Light shuts off.



Page 82 Product Group IF-02 Revision: 3/12/1999 Date : <u>1/6/2021</u>

		for	FEMSA	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IF1692	Α	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 83 Product Group IF-03 Revision: 3/8/1999 Date : <u>1/6/2021</u>

type regulators

HITACHI

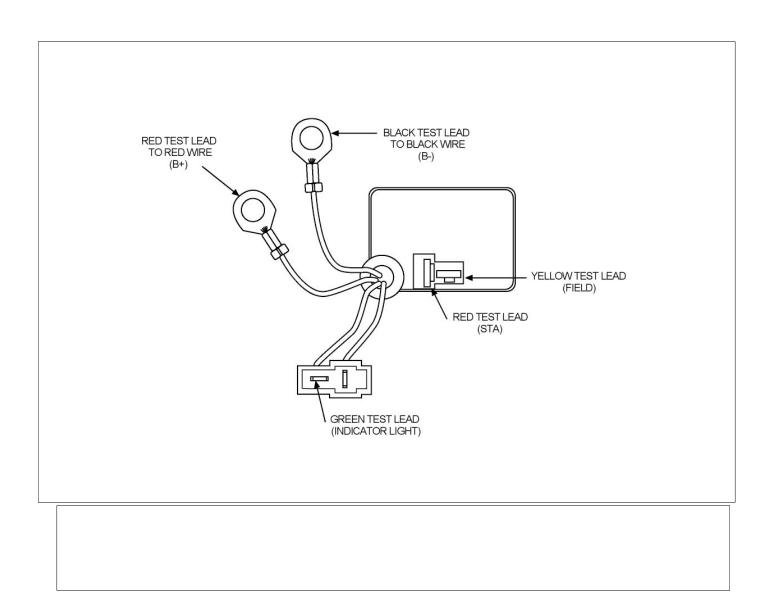
for

			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J. J		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH605	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

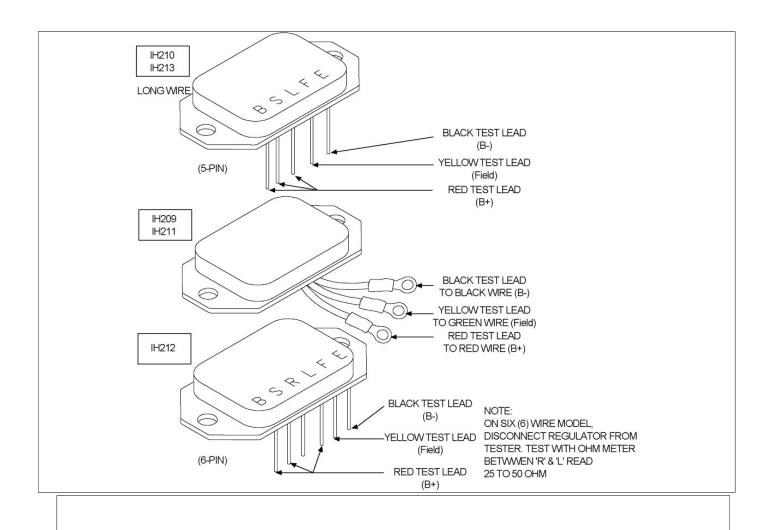
Remove red test lead from the terminal marked "STA". Warning light will turn on and meter should set point voltage.



Page 84 Product Group IH-01 Revision: Date : <u>1/6/2021</u>

		tor	HITACHI	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH209	Α	12	14.7	IH212	A	12	14.3
IH210	Α	12	14.3	IH213	Α	12	14.3
IH210HD	Α	12	14.2				
IH211	Α	12	14.7				

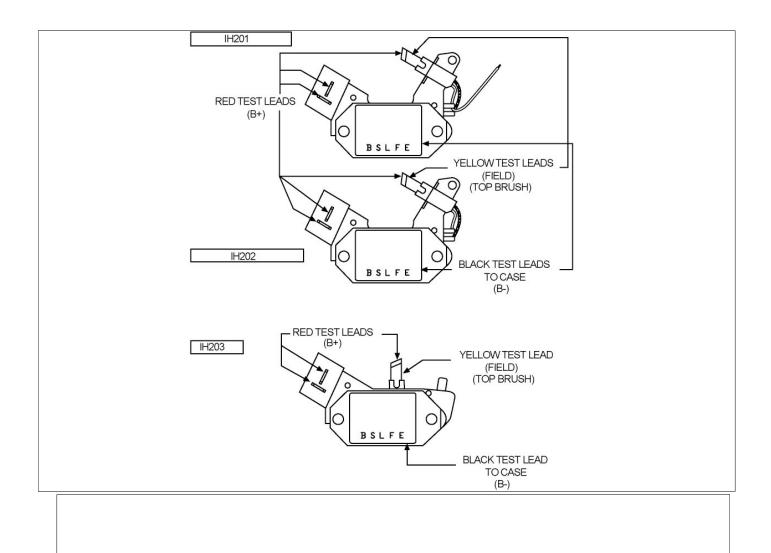
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 85 Product Group IH-02 Revision: Date : <u>1/6/2021</u>

		for	HITACHI	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH201	Α	12	14.3				
IH202	Α	12	14.3				
IH203	Α	12	14.3				

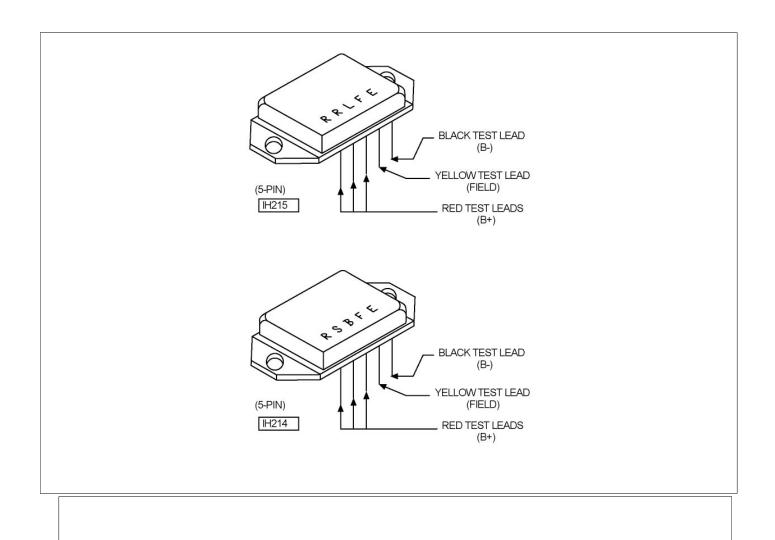
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 86 Product Group IH-03 Revision: Date : <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH214	Α	12	14.4				
IH215	Α	12	14.2				
IH707	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



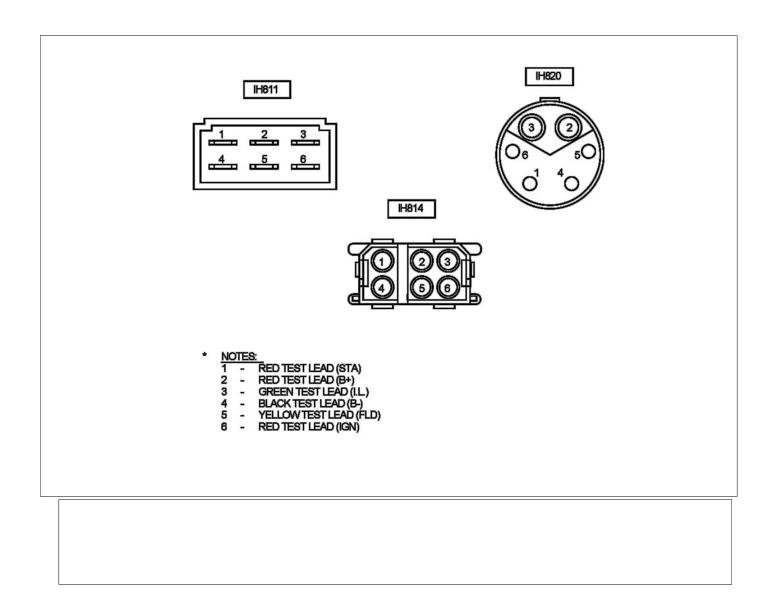
Page 87 Product Group IH-04 Revision: 10/27/1900 Date : <u>1/6/2021</u>

		for HITACHI		type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IH811	В	12	14.3					
IH814	В	12	14.3					
IH820	В	12	14.3					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from terminal marked "STA" Indicator light should turn on and the meter will still indicate the set point voltage.



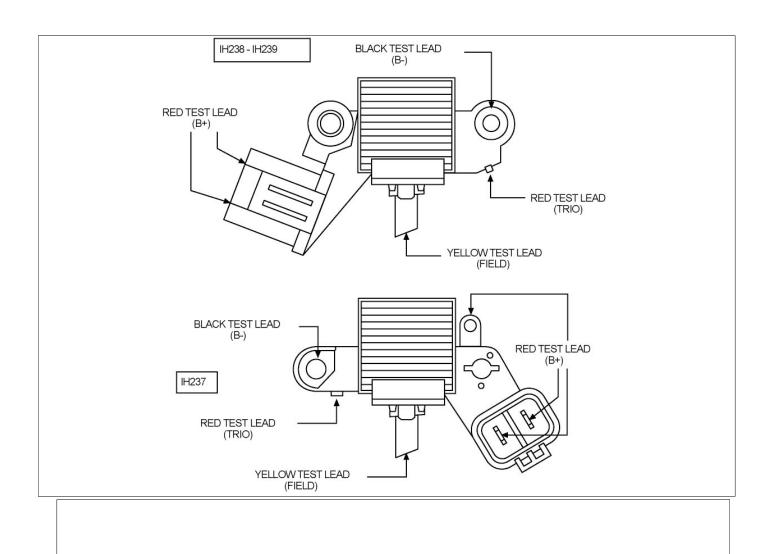
Page 88 Product Group IH-05 Revision: Date : <u>1/6/2021</u>

		for	НІТАСНІ	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH237	Α	12	14.6				
IH238	Α	12	14.6				
IH239	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V.



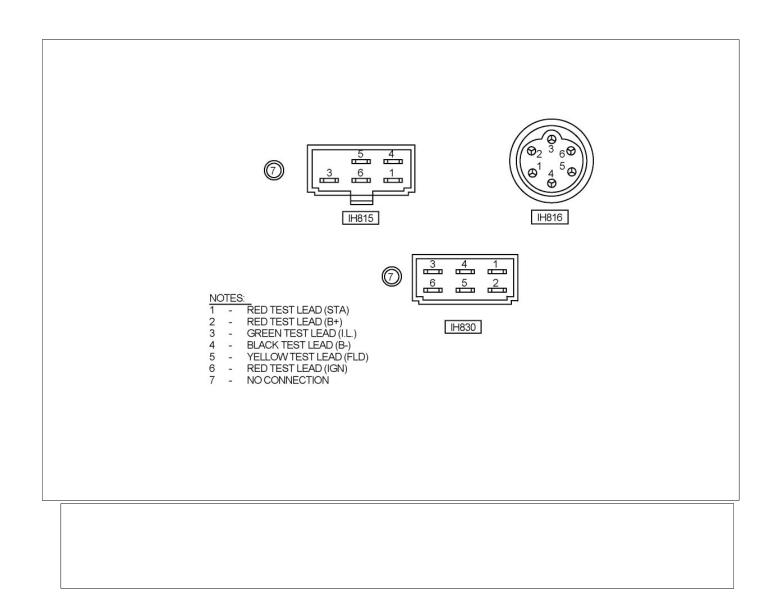
Page 89 Product Group IH-06 Revision: 10/27/1900 Date : <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH833	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from terminal marked "STA". Indicator light should turn on and the meter will still indicate the set point voltage.



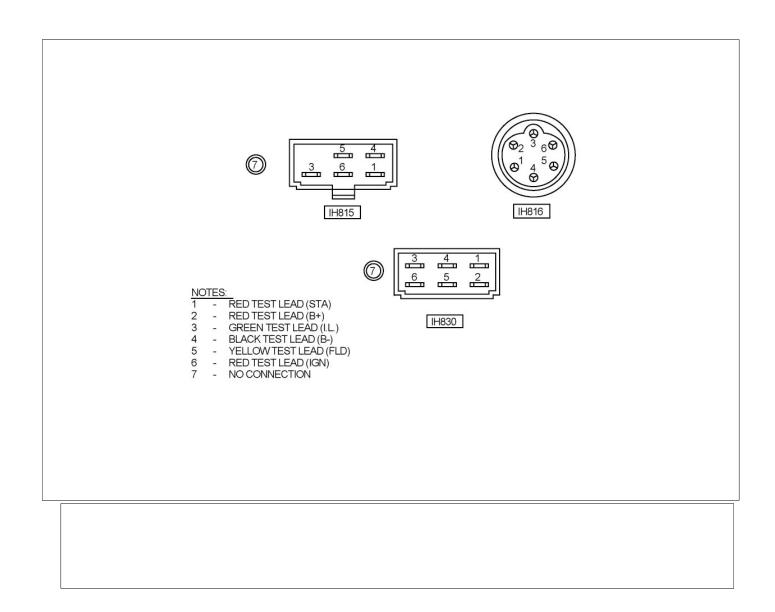
Page 90 Product Group IH-07 Revision: 10/20/1997 Date: <u>1/6/2021</u>

		tor	HITACHI	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH815	В	12	14.3				
IH816	В	12	14.3				
IH830	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from terminal marked "STA" Indicator light should turn on and the meter will still indicate the set point voltage.



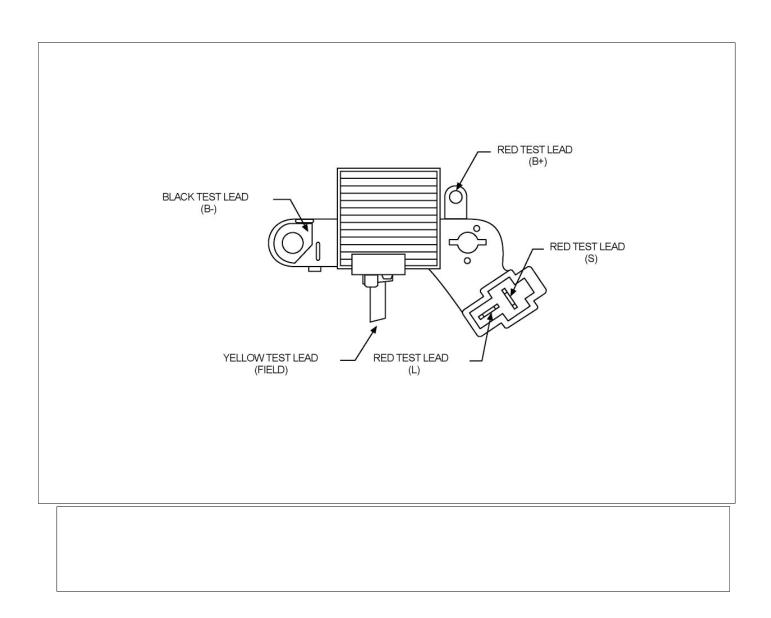
Page 91 Product Group IH-08 Revision: Date: 1/6/2021

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH240	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S" Field lamp should still blink and the meter will indicate approximately 15.5V.

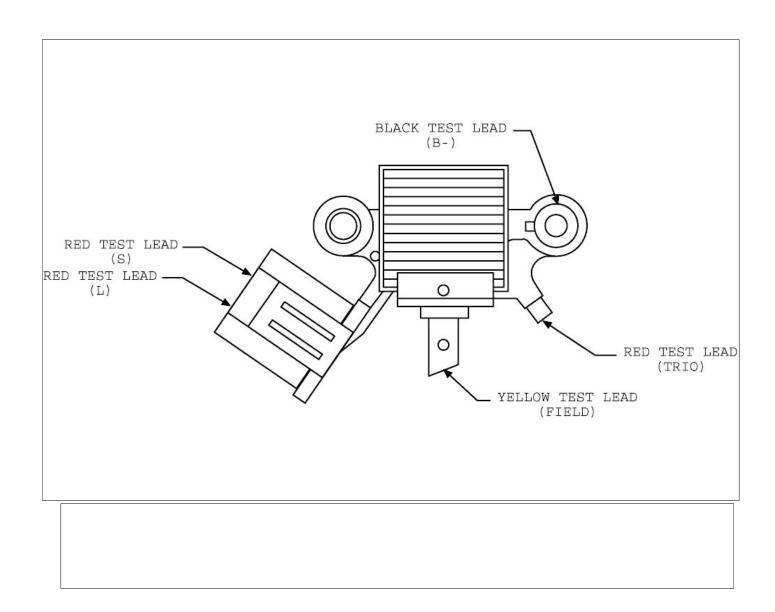


Page 92 Product Group IH-09 Revision: Date : 1/6/2021

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH245	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove red test lead from terminal "S" Field lamp should still blink and the meter will indicate approximately 15.5 V.



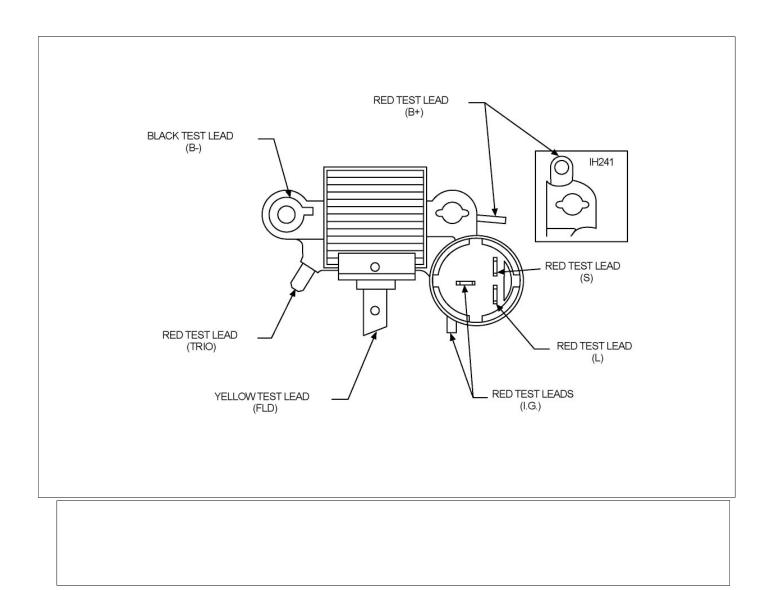
Page 93 Product Group IH-10 Revision: Date: 1/6/2021

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH241	Α	12	14.6				
IH244	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V.



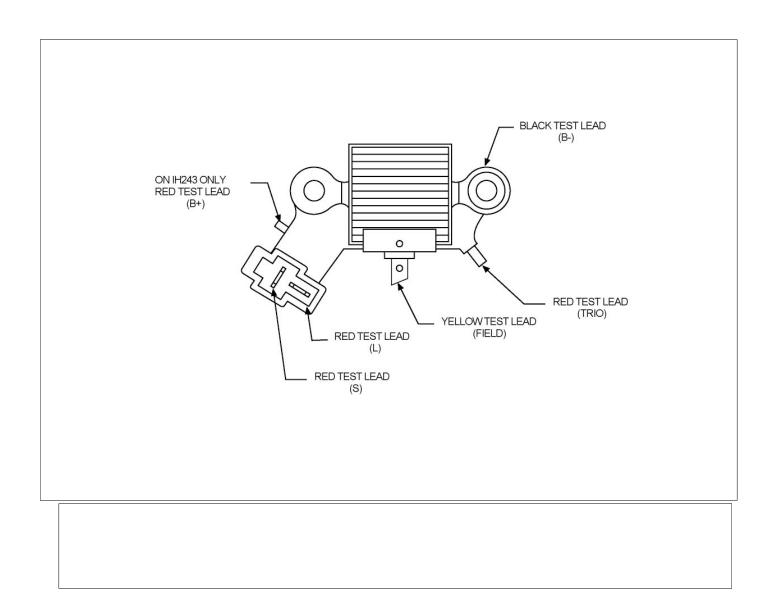
Page 94 Product Group IH-11 Revision: Date : <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH243	Α	12	14.6				
IH246	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V.



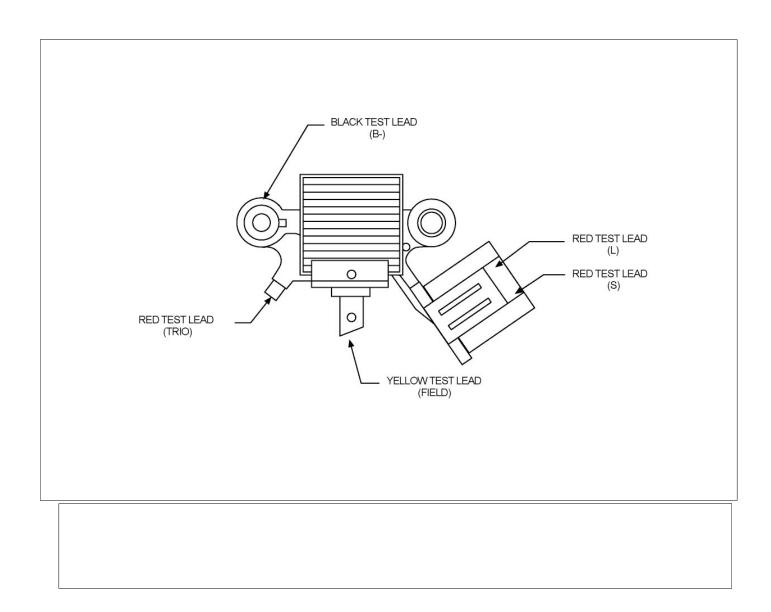
Page 95 Product Group IH-12 Revision: Date : <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH242	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V.



Page 96 Product Group IH-13 Revision: Date : <u>1/6/2021</u>

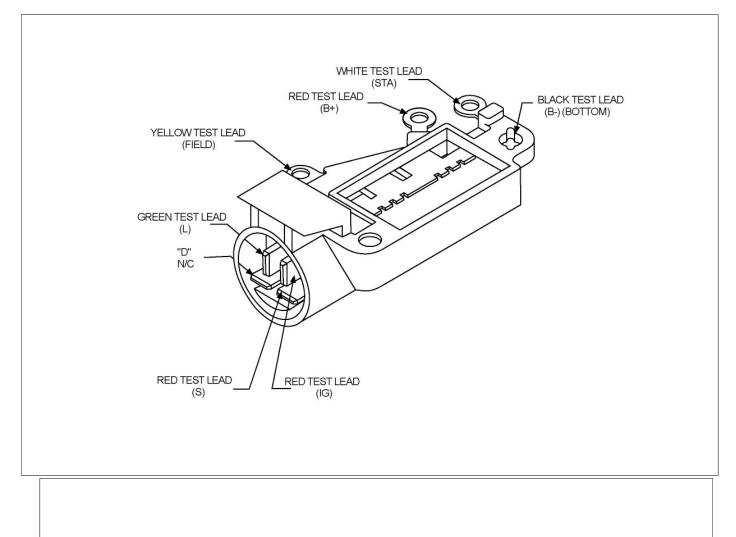
		for	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH247	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "STA". Indicator light should turn on, field lamp will remain on and meter will indicate approximately 12V. Remove red test lead from terminal marked "IG". Field lamp should turn off.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



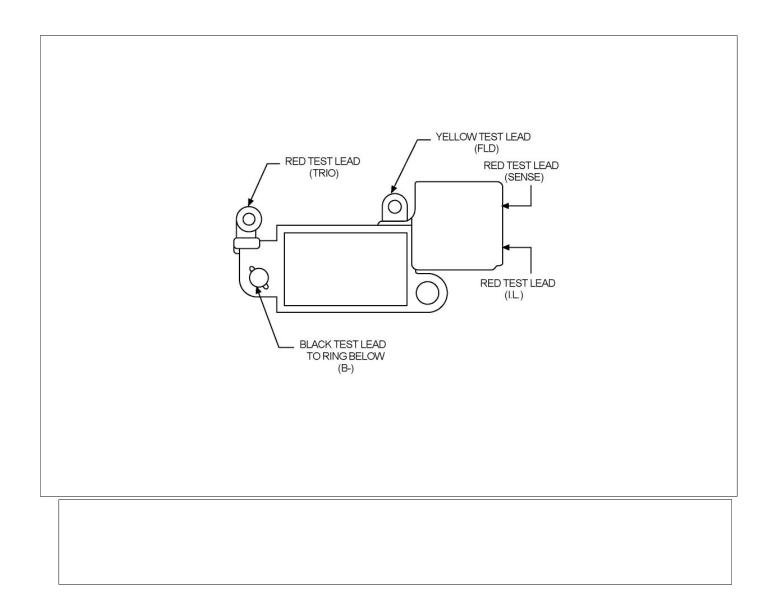
Page 97 Product Group IH-14 Revision: 4/26/1905 Date: <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH248	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V.



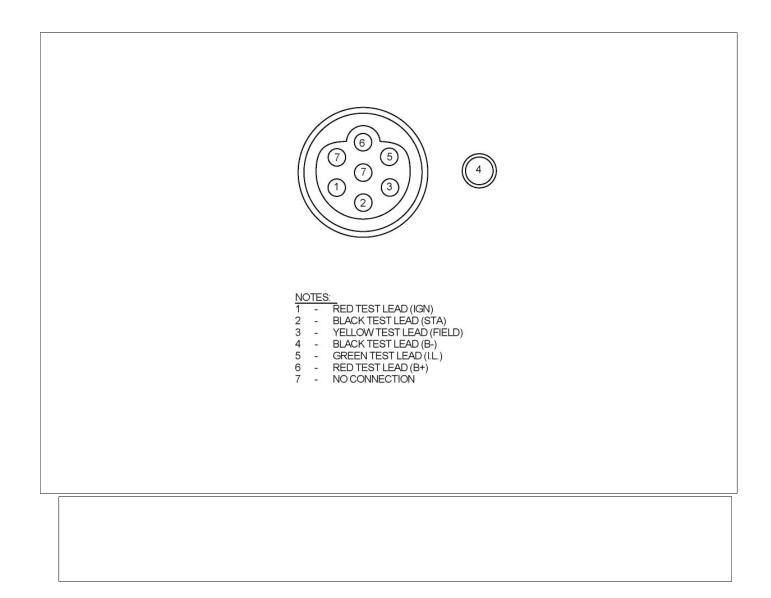
Page 98 Product Group IH-15 Revision: Date: <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH832	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove black test lead from terminal marked "STA". Indicator lamp should turn on and the meter will still indicate the set point voltage.



Page 99 Product Group IH-16 Revision: Date: 1/6/2021

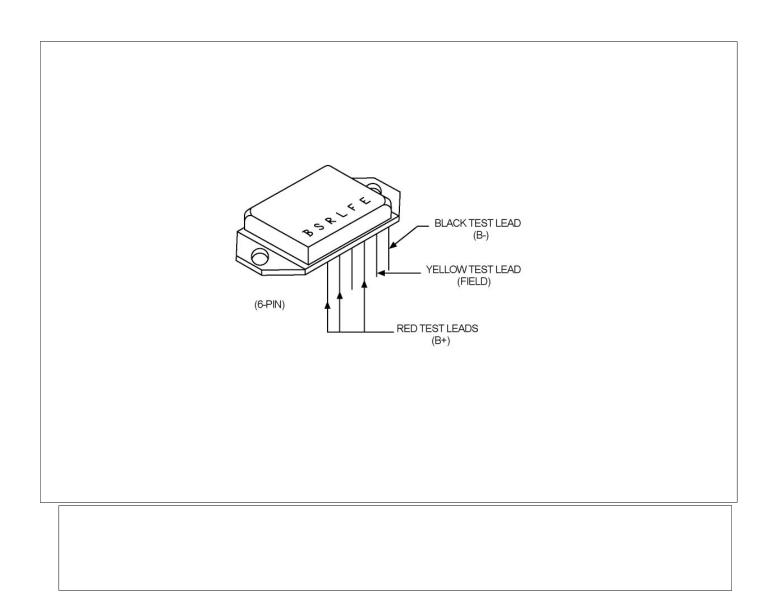
HITACHI

for

			1111710111	, po . o guillato			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH717	Α	12	14.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 100 Product Group IH-17 Revision: 8/19/1902 Date : <u>1/6/2021</u>

HITACHI

for

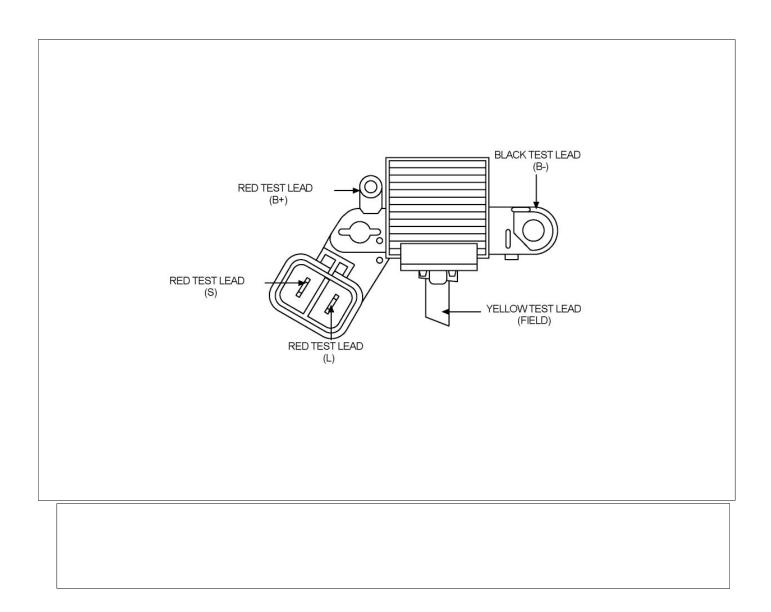
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH250	Α	12	14.6				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 1 volt higher than set point.



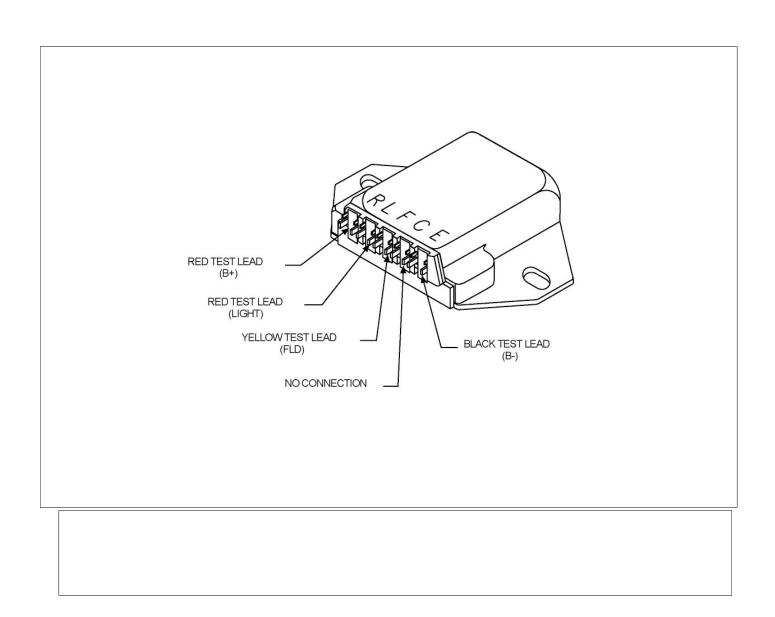
Page 101 Product Group IH-18 Revision: Date : <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH708	Α	24	28.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect a red test lead to the terminal marked "C". The field lamp should still blink and the meter will indicate approximately 26.3 V.



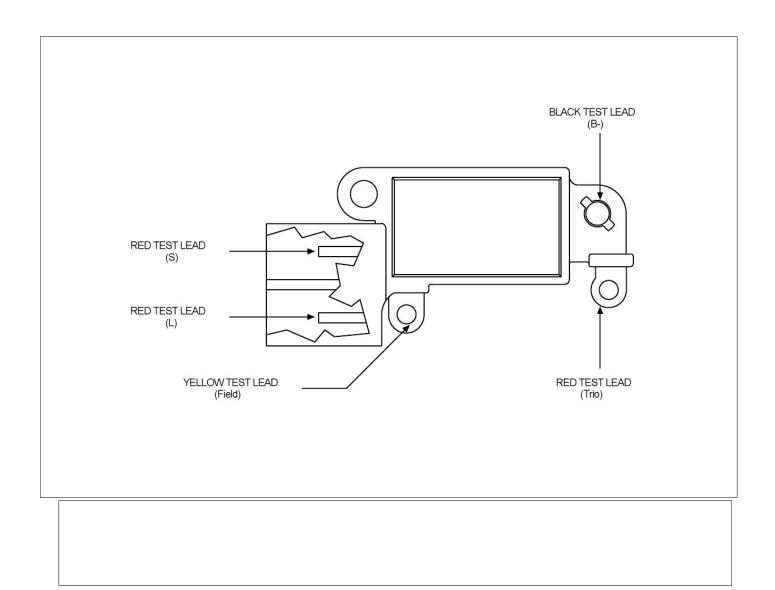
Page 102 Product Group IH-19 Revision: Date: <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH760	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Filed lamp should still blink and the meter will indicate approximately 15.5 volts.



Page 103 Product Group IH-20 Revision: 9/1/1998 Date : <u>1/6/2021</u>

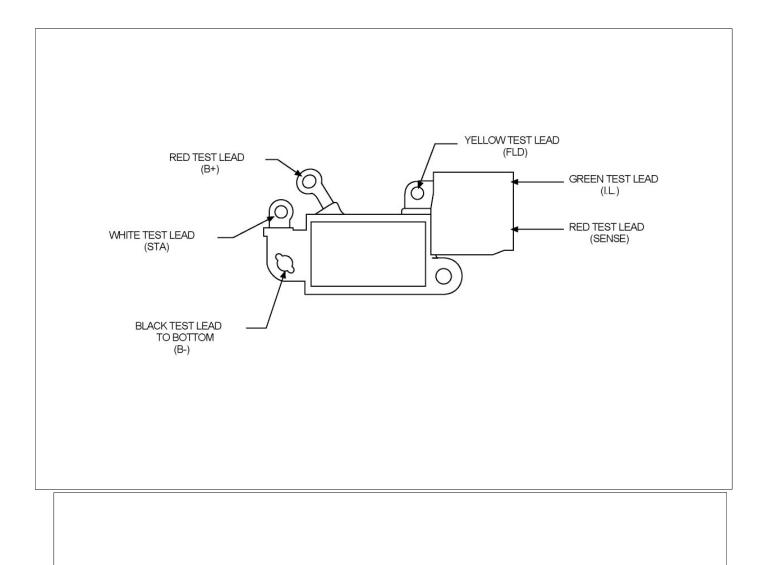
		for	HITACHI	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH761	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator". 12V lamp should illuminate and the meter will indicate approximately 12.0 V.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 104 Product Group IH-21 Revision: 4/26/1905 Date: 1/6/2021

HITACHI

for

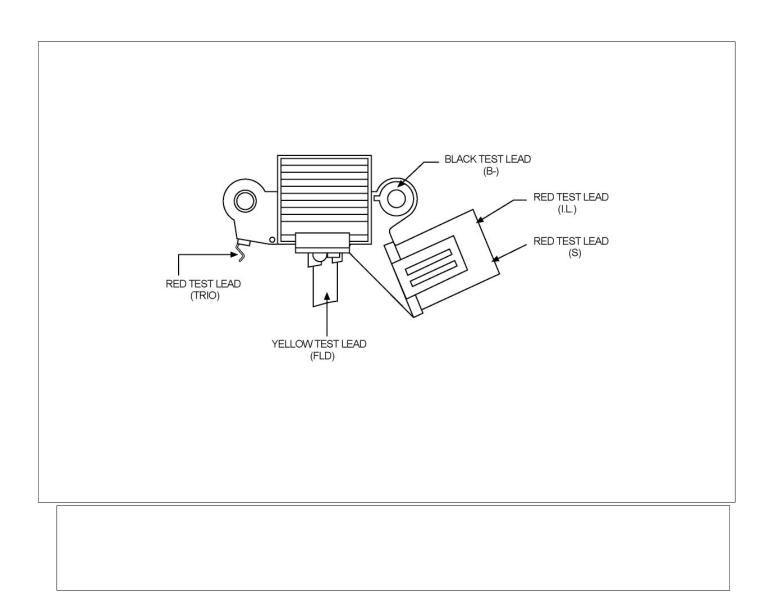
			,	,poogu.u.	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH249	Α	12	14.6				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should blink and the meter will indicate approximately 15.5V.



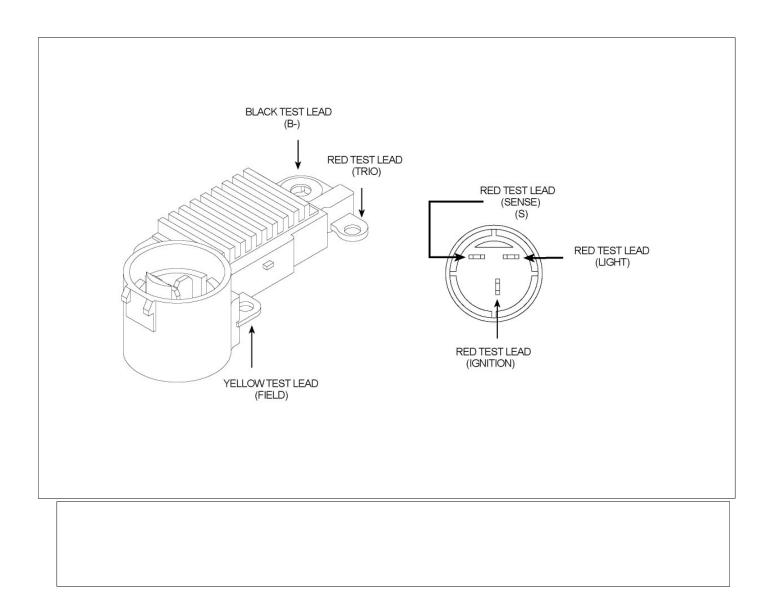
Page 105 Product Group IH-22 Revision: 10/20/1997 Date : <u>1/6/2021</u>

		for	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH251	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should blink and the meter will indicate approximately 15.5V.

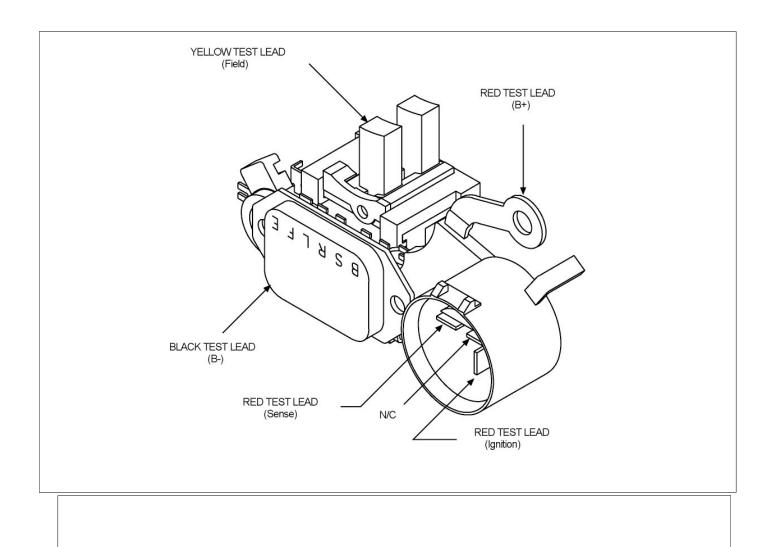


Page 106 Product Group IH-23 Revision: Date: <u>1/6/2021</u>

		for	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH252	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove sense. Voltage goes to 15.6V and field light stays on.



Page 107 Product Group IH-24 Revision: 9/1/1998 Date : <u>1/6/2021</u>

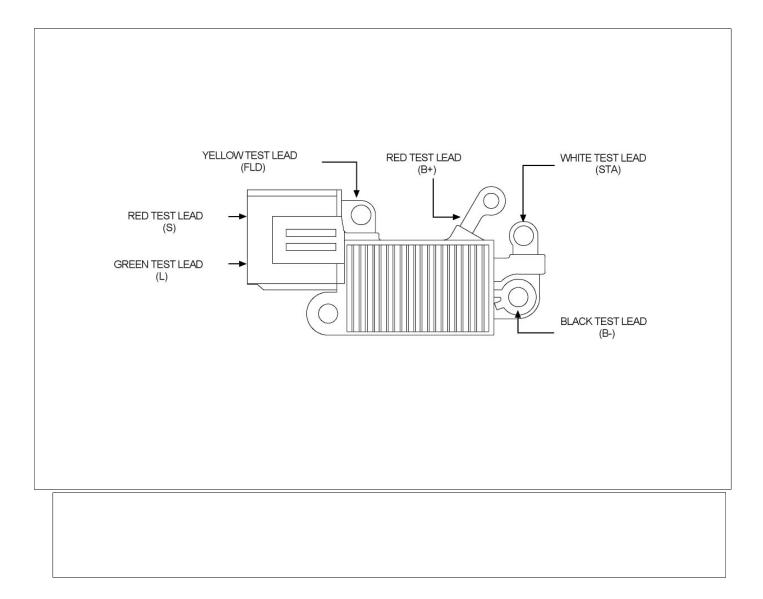
		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH762	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "STA". Field lamp will remain fully on and the meter should indicate 12V.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 108 Product Group IH-25 Revision: 4/26/1905 Date: 1/6/2021

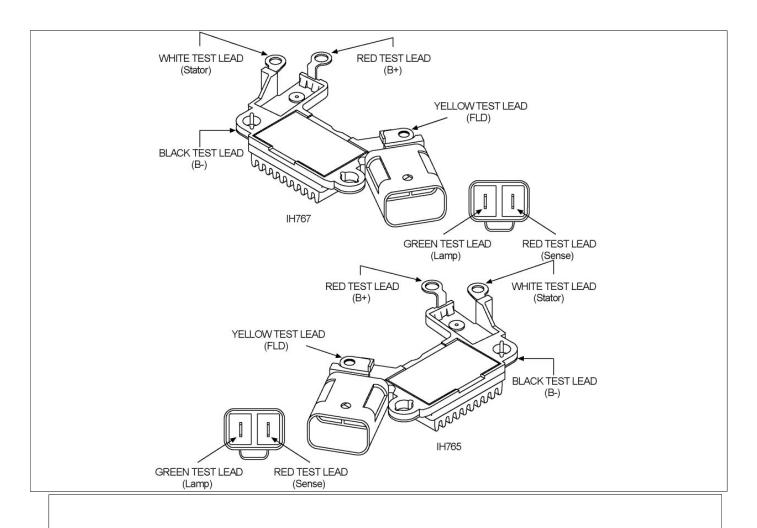
		for	HITACHI	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IH765	Α	12	14.3						
IH767	Α	12	14.3						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator". 12V lamp should illuminate and the meter will indicate approximately 12 volts.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.

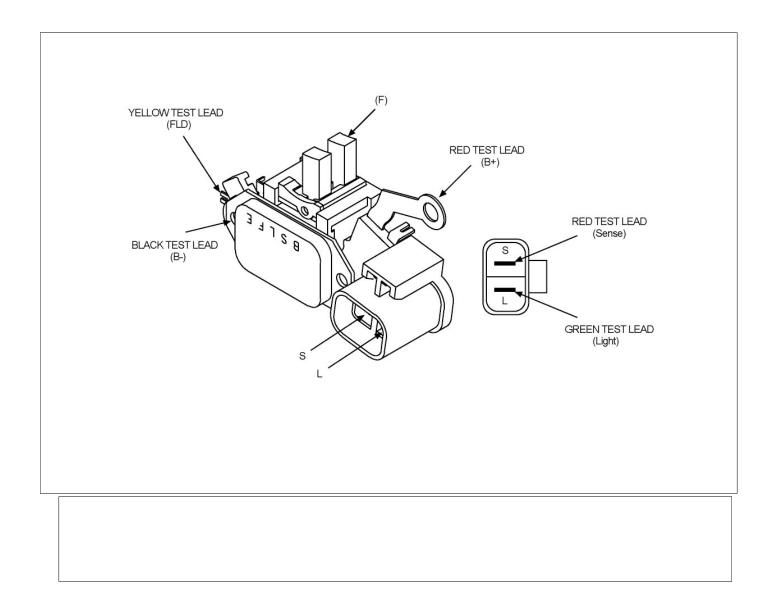


Page 109 Product Group IH-26 Revision: 4/26/1905 Date: 1/6/2021

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH205	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove (Red) Sense lead, voltage should go to 15.5V.

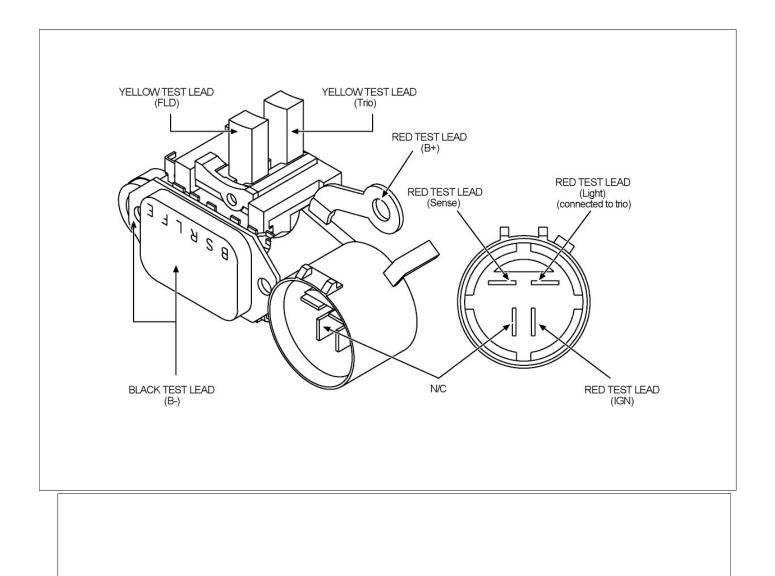


Page 110 Product Group IH-27 Revision: 8/23/1999 Date : <u>1/6/2021</u>

		for	HITACHI	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IH254	Α	12	14.5						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove (Red) lead from sense, Field lamp will stay on, voltage will rise between 15.5V and 15.9V.



Page 111 Product Group IH-28 Revision: 8/24/1999 Date : <u>1/6/2021</u>

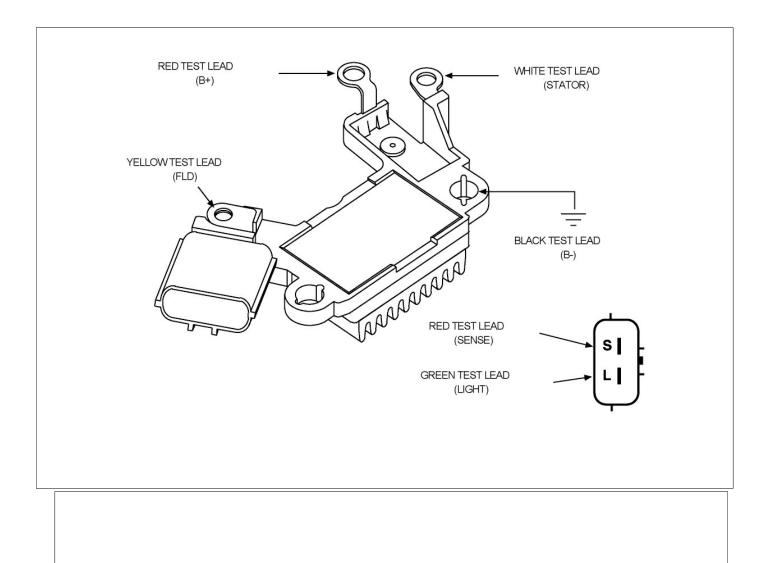
		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH766	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect "S", Voltage stays the same , 12V lamp comes on and field lamp continues to be on and field lamp continues to be on.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.

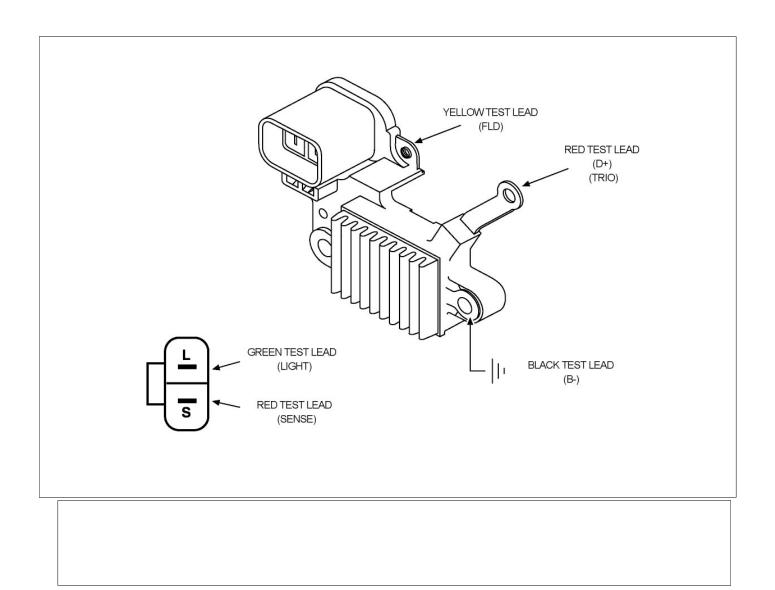


Page 112 Product Group IH-29 Revision: 4/26/1905 Date: 1/6/2021

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH770	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect "S", voltage goes to approximately 15.2V Field lamp stays on.



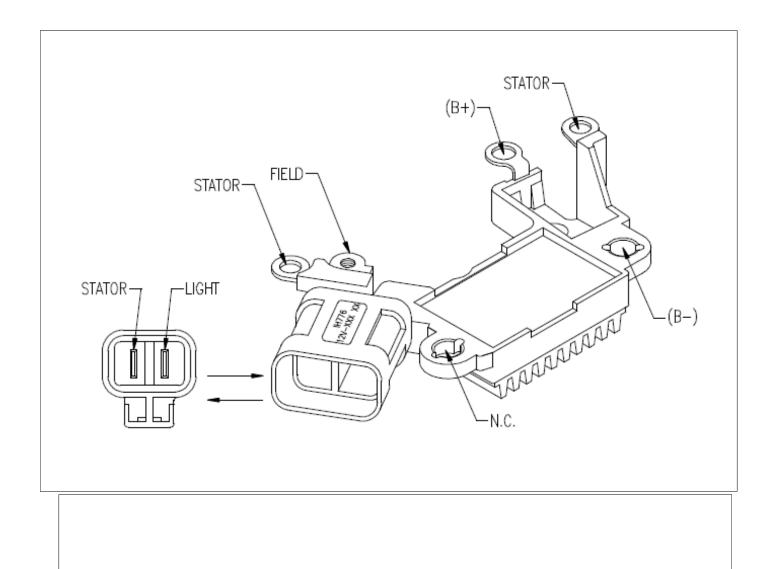
Page 113 Product Group IH-30 Revision: 11/28/1900 Date : <u>1/6/2021</u>

		for	HITACHI	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH776	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white lead from stator, field circuit lamp will stay on. 12V lamp will come on and voltage will drop to 12V. To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 114 Product Group IH-31 Revision: 4/26/1905 Date: 1/6/2021

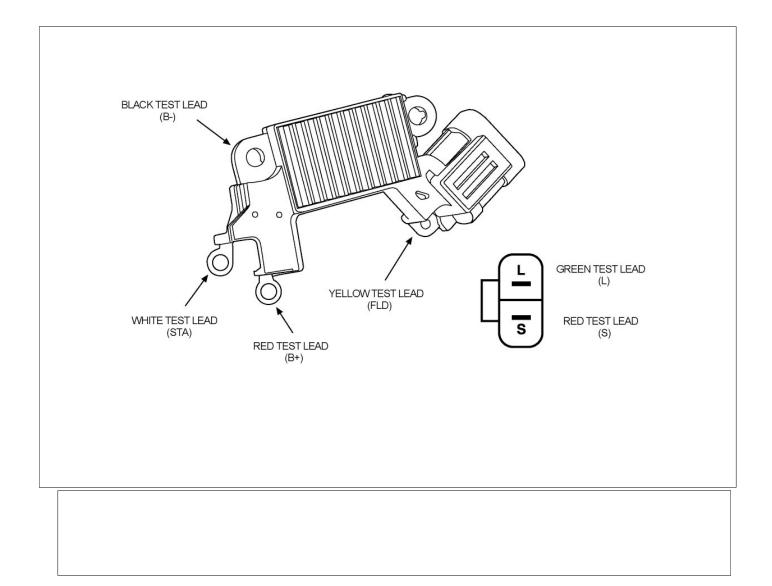
		tor	НІТАСНІ	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH782	Α	12	14.3				
T6782	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect (white) lead from stator, voltage drops to 12V and lamp comes on. Disconnect (Red) lead from sense, lamp comes on and rises to 15.5V.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 115 Product Group IH-32 Revision: 4/26/1905 Date: 1/6/2021

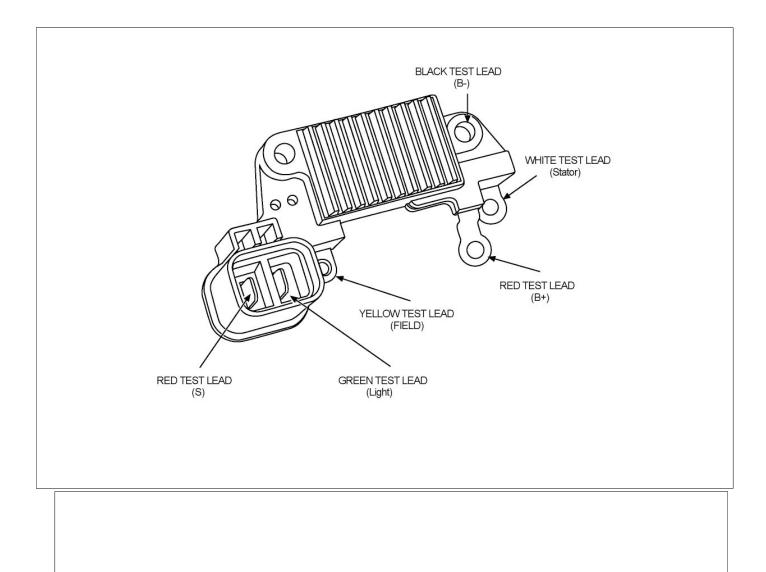
		for	HITACHI	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IH763	Α	12	14.2					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red lead from terminal marked "S" and voltage will rise to approximately 15.5V. Remove stator and lamp comes on and voltage drops to 12V.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



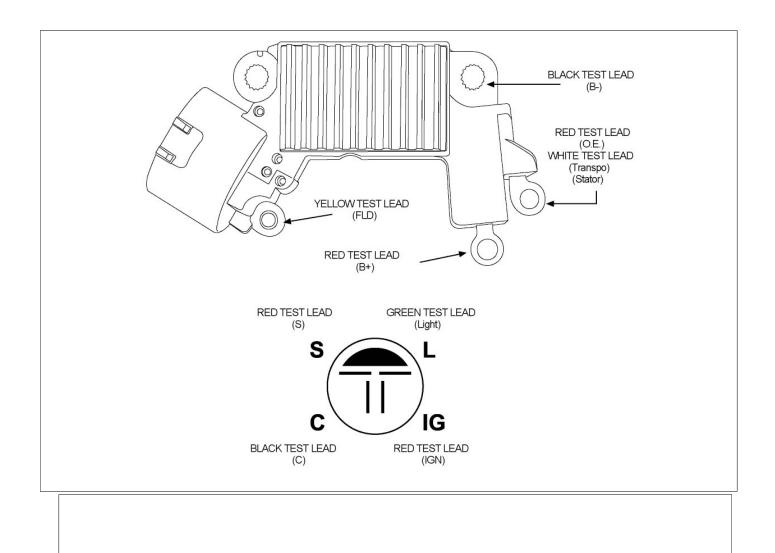
Page 116 Product Group IH-33 Revision: 4/26/1905 Date: 1/6/2021

		for	HITACHI	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IH772	Α	12	14.3					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

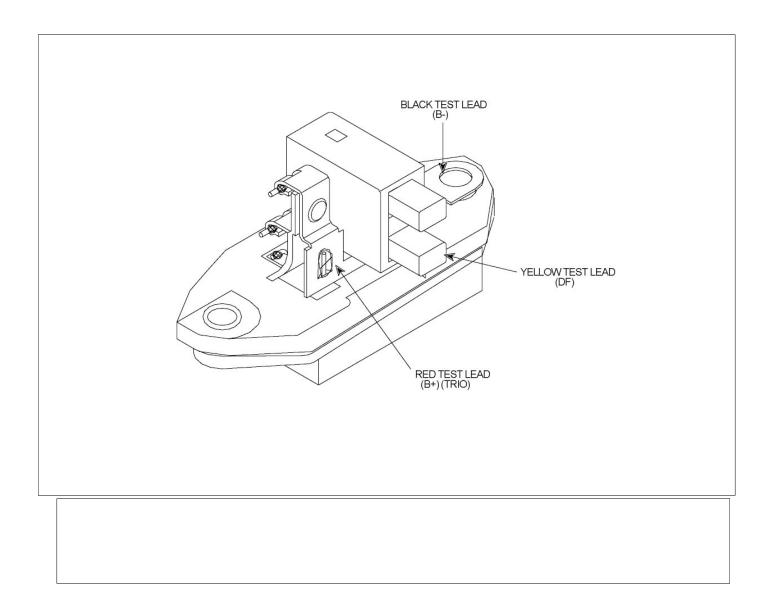
Remove stator and lamp comes on. Apply ground to "C" Terminal and voltage will drop to 12.5 volts. To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



Page 117 Product Group IH-34 Revision: 4/26/1905 Date : <u>1/6/2021</u>

		for	ISKRA	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IK404	Α	24	28.0					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 118 Product Group IK-01 Revision: 3/12/1999 Date : <u>1/6/2021</u>

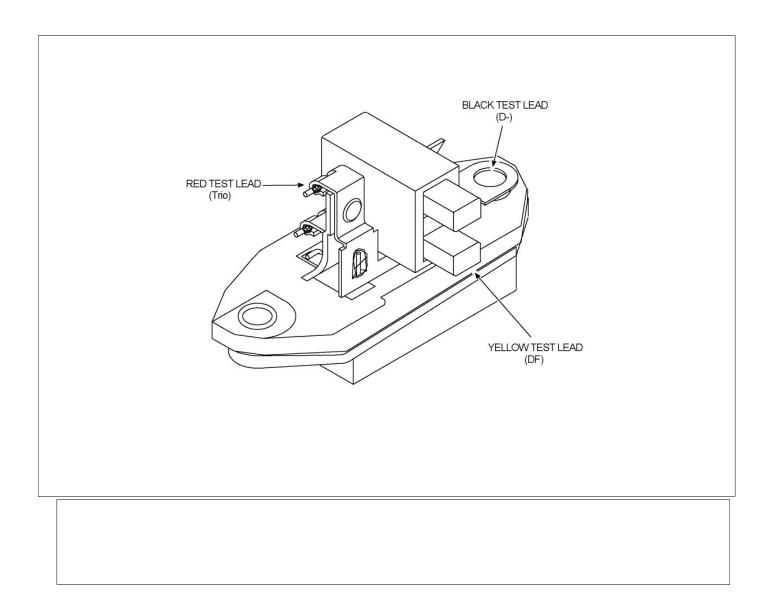
ISKRA

for

				,po .ogu	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IK401	А	12	14.4				

type regulators

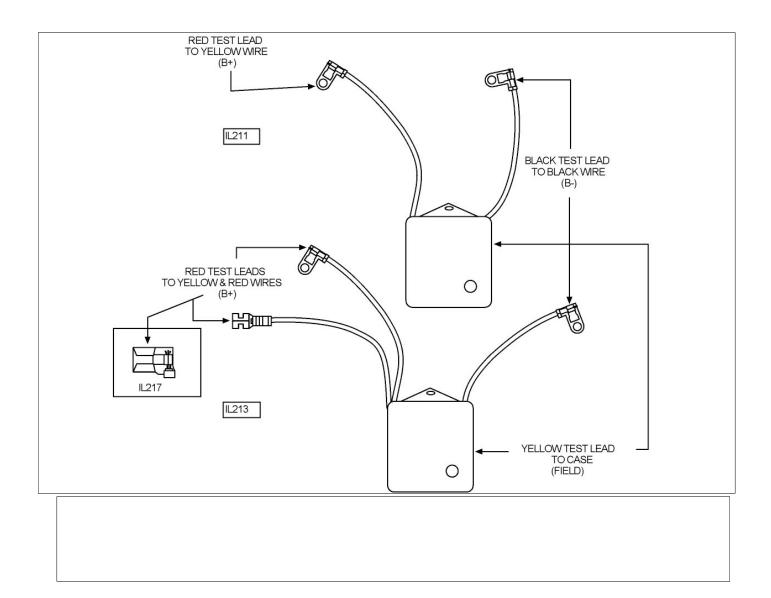
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 119 Product Group IK-02 Revision: 3/12/1999 Date : <u>1/6/2021</u>

		for	LUCAS	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL211	Α	12	14.2				
IL213	Α	12	14.2				
IL217	Α	12	14.2				

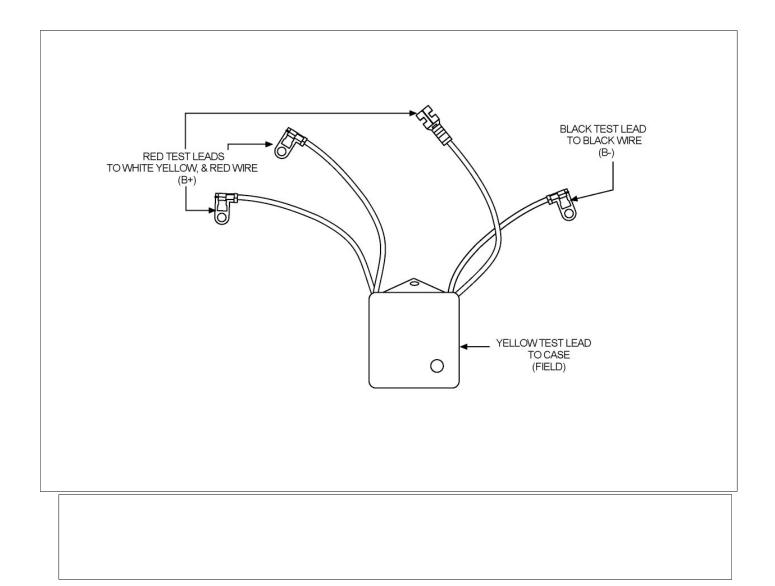
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 120 Product Group IL-01 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	LUCAS	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL214	Α	12	14.2				
IL215	Α	12	14.2				
IL216	Α	12	14.2				
IL218	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 121 Product Group IL-02 Revision: 5/1/1997 Date : <u>1/6/2021</u>

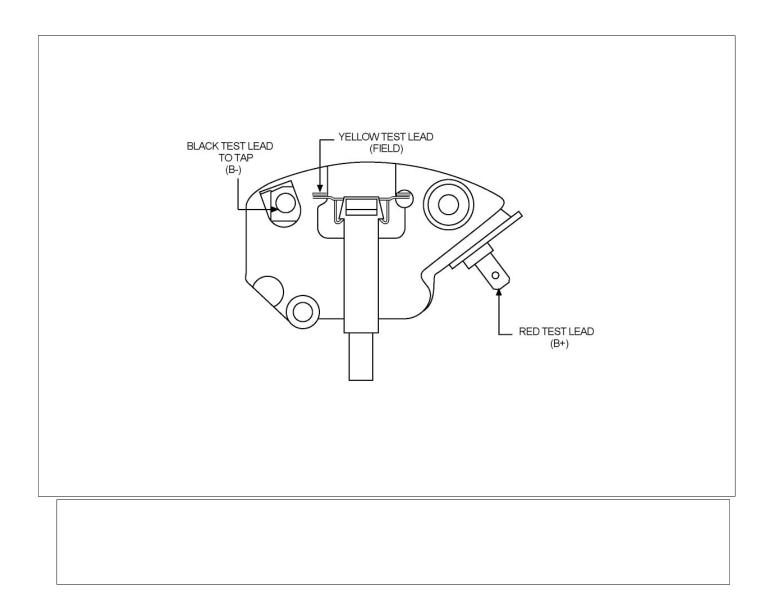
LUCAS

for

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL223	Α	12	14.3				
IL225	Α	24	28.1				
IL223CN-B128	Α	12	14.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 122 Product Group IL-03 Revision: 5/1/1997 Date : <u>1/6/2021</u>

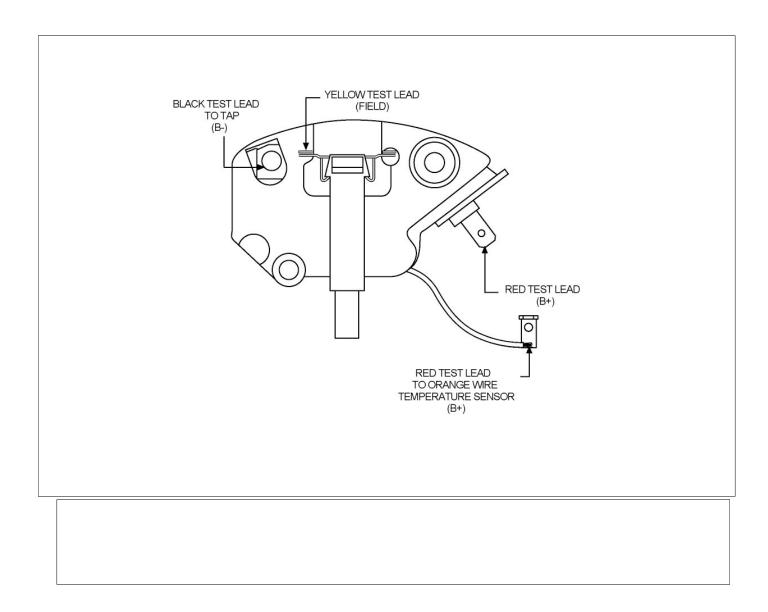
LUCAS

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL224	Α	12	12.5				

type regulators

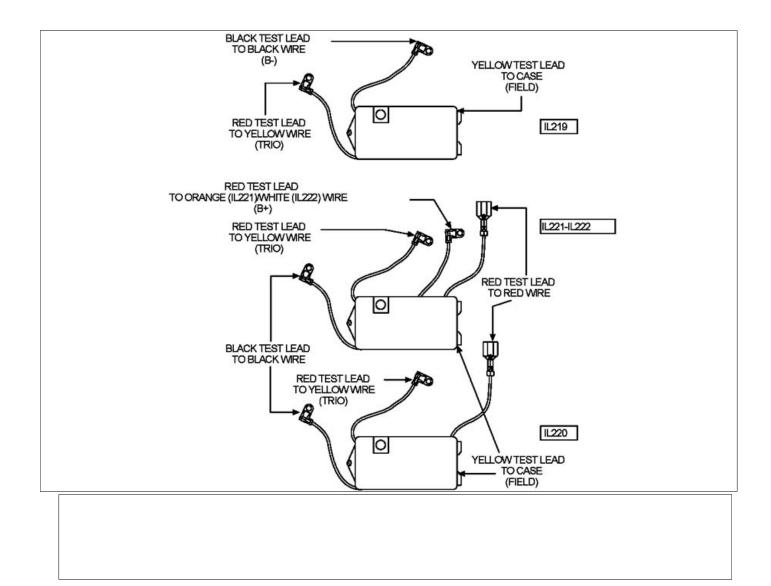
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 123 Product Group IL-04 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	LUCAS	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL219	Α	12	14.3				
IL220	Α	12	14.3				
IL221	Α	12	12.3				
IL222	Α	12	14.3				

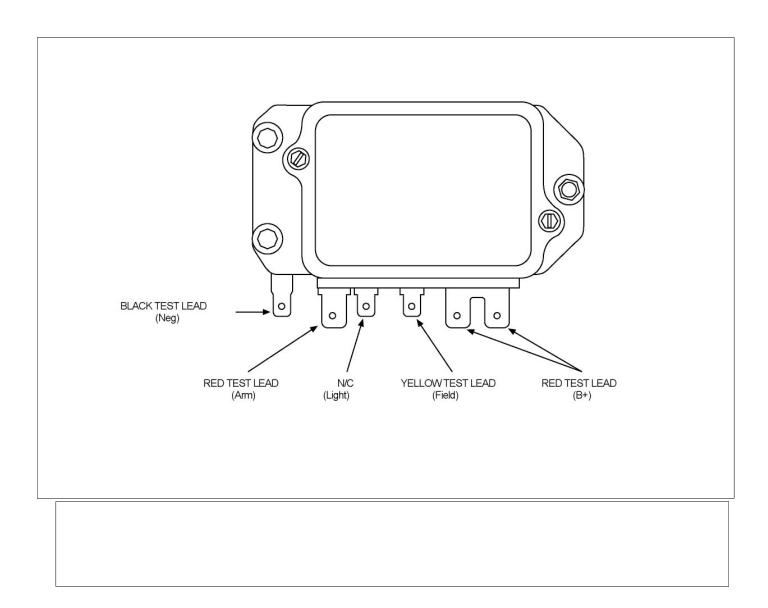
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 124 Product Group IL-05 Revision: Date : <u>1/6/2021</u>

		for	LUCAS	type regulato				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IL1292	В	12	14.3					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



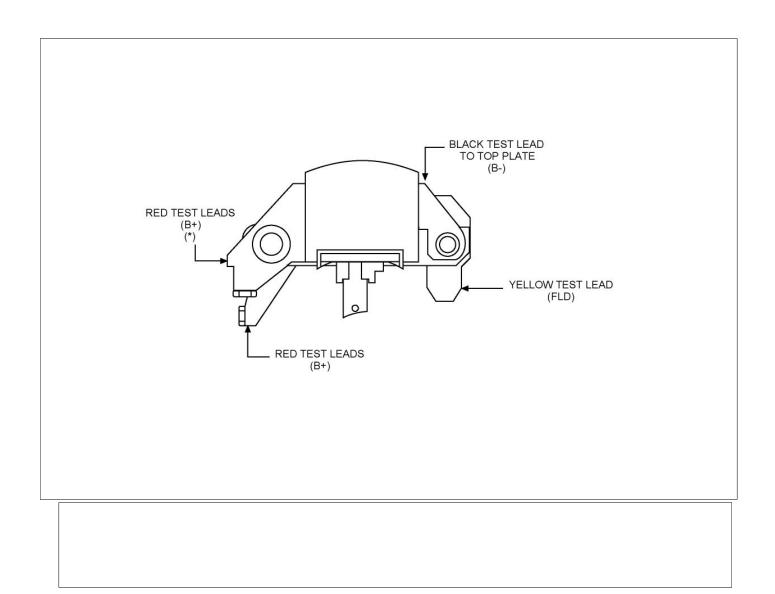
Page 125 Product Group IL-06 Revision: 11/29/1900 Date : <u>1/6/2021</u>

		for	MITSUBISHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM204	Α	12	14.6				
IM204HD	Α	12	14.6				
IM205	Α	12	14.6				
IM225	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

On IM225 regulator, remove red test lead from terminal marked "*". Field lamp should still blink and the meter will indicate approximately 15.4V.



Page 126 Product Group IM-01 Revision: 8/15/1997 Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

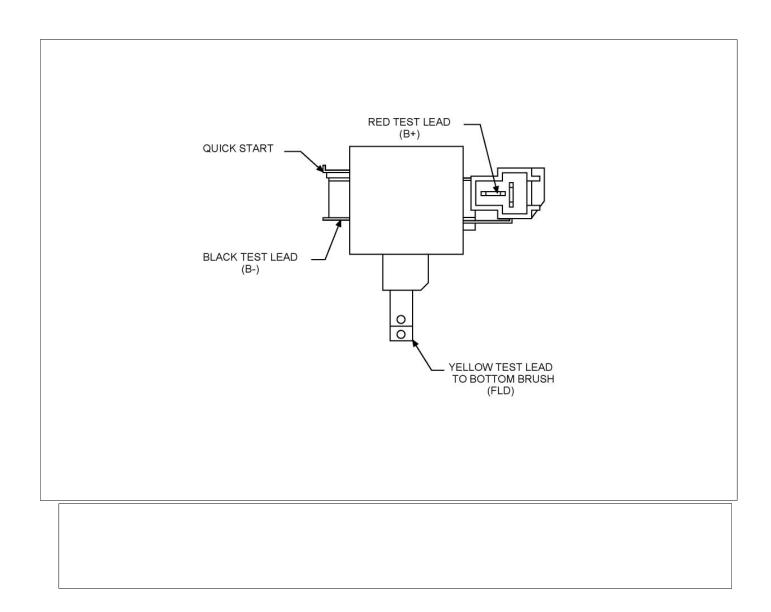
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM224	A	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect another black test lead to terminal marker "Quick Start". Field lamp should still blink and the meter will indicate approximately 13.0V.



Page 127 Product Group IM-02 Revision: Date : <u>1/6/2021</u>

MITSUBISHI

for

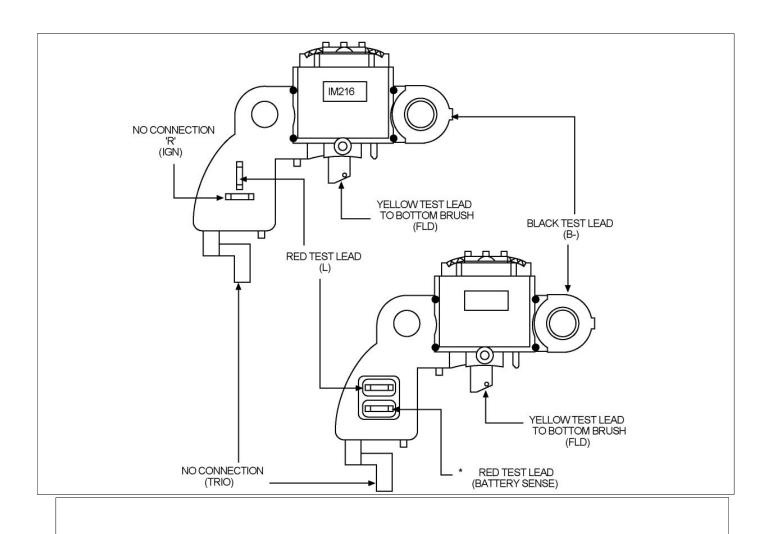
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM216	Α	12	14.5	IM217	A	12	14.3
IM216HD	Α	12	14.5				
IM289	Α	12	14.5				
IM217HD	Α	12	14.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

On IM217 Regulator, remove red test lead from terminal marked "*". Field lamp should still blink and the meter will indicate approximately 15.4V.



Page 128 Product Group IM-03 Revision: 8/7/1998 Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

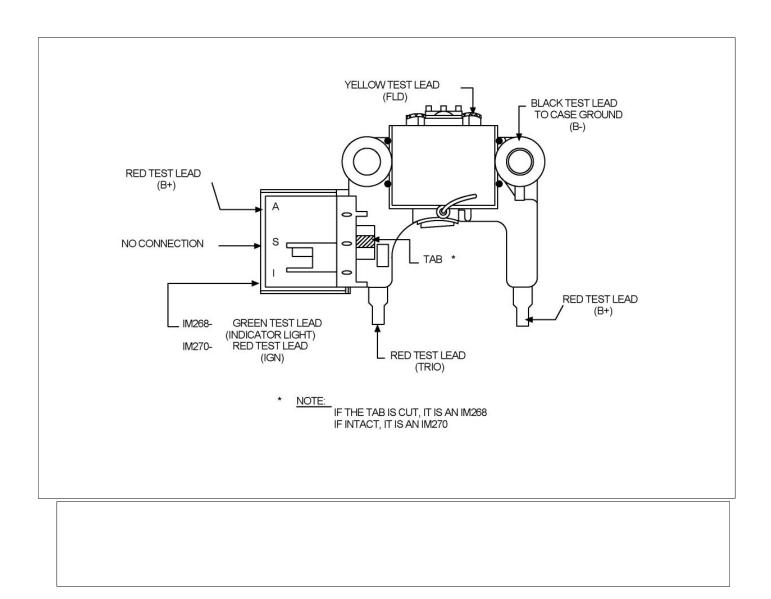
for

					. •		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM268	Α	12	14.5				
IM270	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

On IM268, removal of red test lead from terminal marked "A" should result in the indicator light to turn on and the meter will indicate approximately 15.7V. On IM270, Removal of test lead "A" terminal should result in the meter to indicate approximately 15.7V.



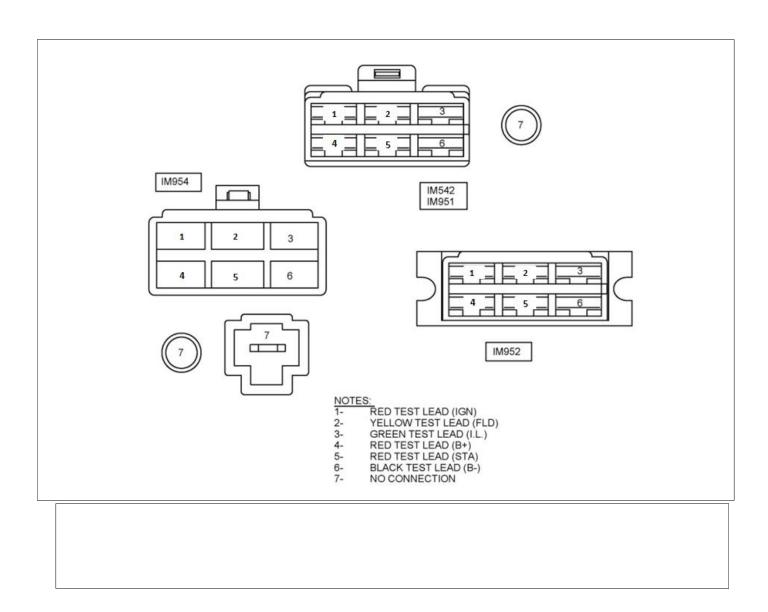
Page 129 Product Group IM-04 Revision: Date: 1/6/2021

		for	MITSUBISHI	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM542	В	12	14.3				
IM951	В	12	14.3				
IM954	В	12	14.3				
IM952	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove Red test lead from terminal marked "STA". Indicator light should turn on and the meter will indicate the set point voltage.



Page 130 Product Group IM-05 Revision: Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

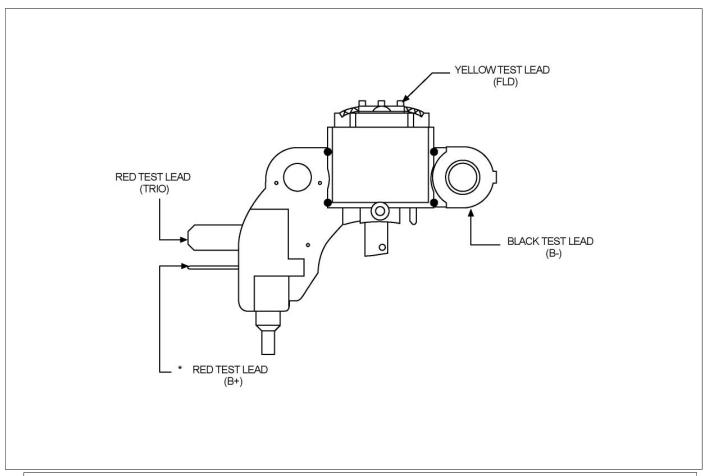
for

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM261	Α	12	14.5				
IM269	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

On IM261, remove red test lead from the terminal marked "*". Field lamp should still blink and the meter will indicated approximately 15.4 v.



IM261: S-L Terminals IM269: R-L Terminals

Page 131 Product Group IM-06 Revision: Date: <u>1/6/2021</u>

type regulators

MITSUBISHI

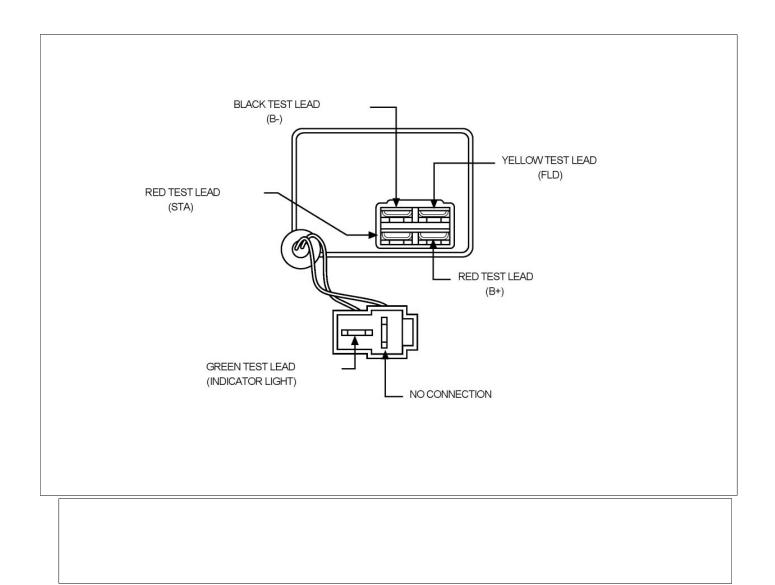
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM604	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "STA". Indicator light should turn on and the meter will indicate set point voltage.



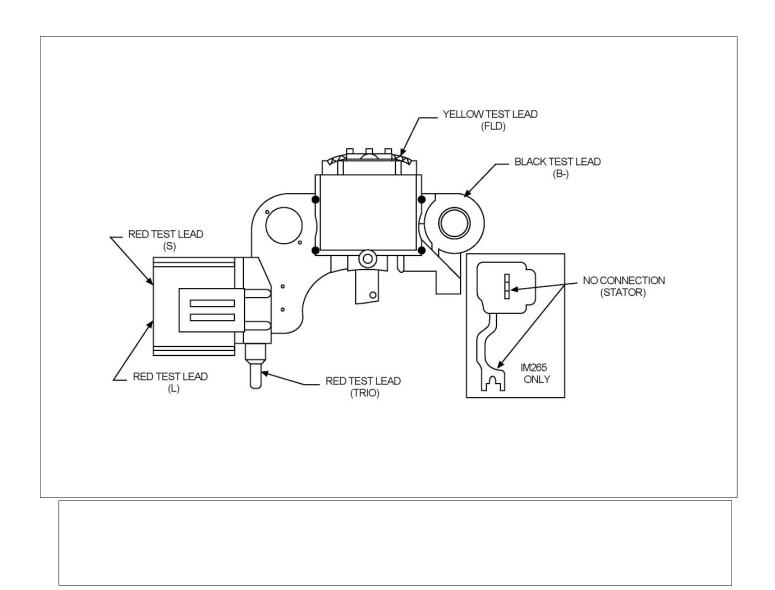
Page 132 Product Group IM-07 Revision: 10/20/1904 Date : <u>1/6/2021</u>

		for	MITSUBISHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM262	Α	12	14.5				
IM263	Α	12	14.5				
IM265	Α	12	14.5				
IM265HD	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 1.5V above the set point voltage.



Page 133 Product Group IM-08 Revision: Date : <u>1/6/2021</u>

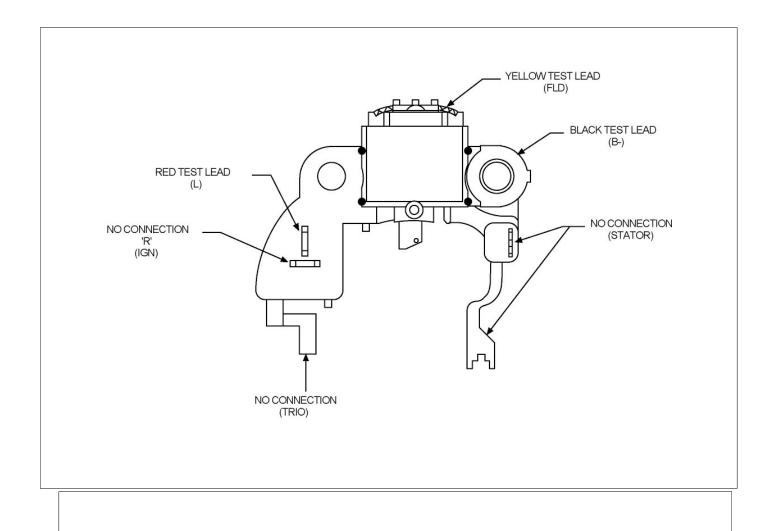
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM266	Α	12	14.5				
IM266HD	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 134 Product Group IM-09 Revision: Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

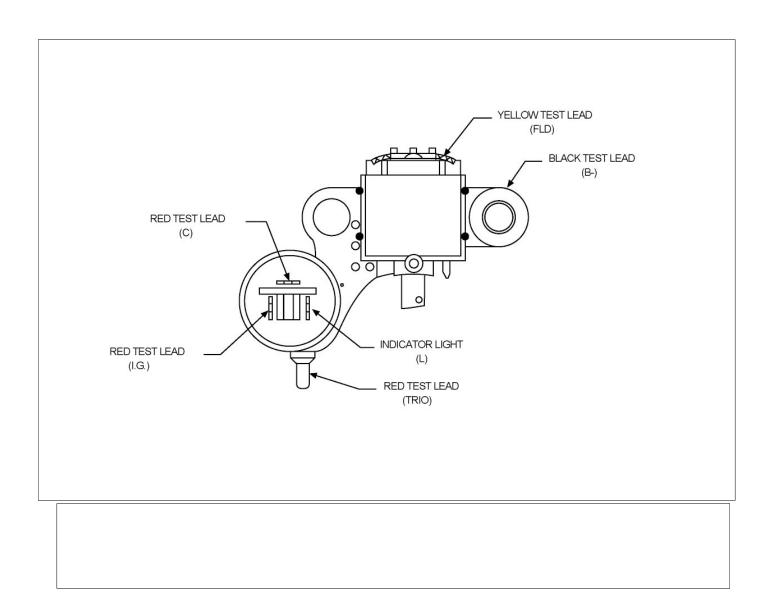
for

		_					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM267	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "C" and connect a black test lead to it . Field lamp should still blink and the meter will indicate approximately 12.5V.



Page 135 Product Group IM-10 Revision: Date: 1/6/2021

type regulators

MITSUBISHI

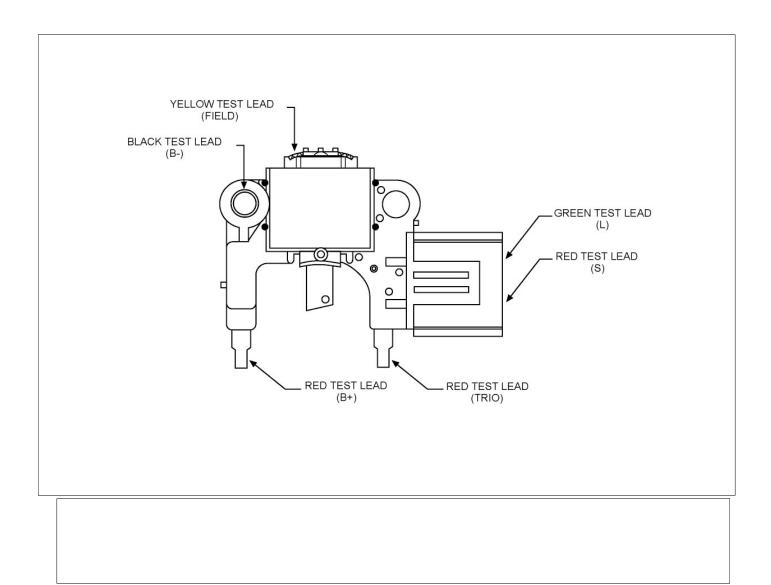
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM271	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink, indicator light turn on and the meter will indicate approximately 15.5V.



Page 136 Product Group IM-11 Revision: Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

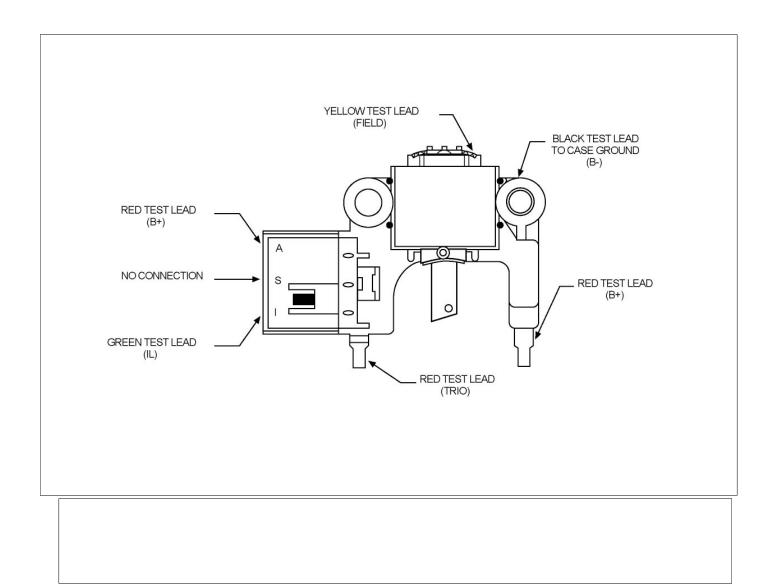
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM272	A	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "A". Field lamp should still blink, indicator light will turn on and the meter will indicate approximately 15.5V.



Page 137 Product Group IM-12 Revision: Date: 1/6/2021

type regulators

MITSUBISHI

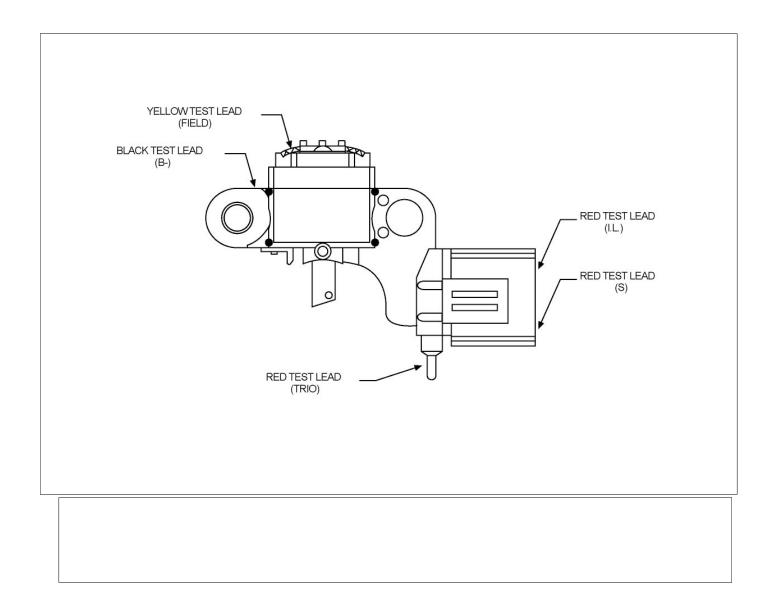
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM274	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V.



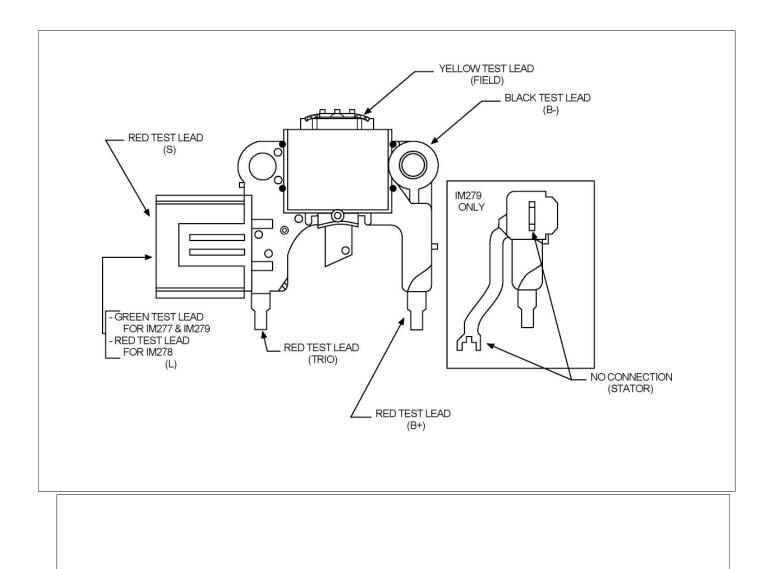
Page 138 Product Group IM-13 Revision: Date : <u>1/6/2021</u>

		for	MITSUBISHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM277	Α	12	14.5				
IM278	Α	12	14.5				
IM279	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V. (on IM277 & IM279 indicator light will turn on.)



Page 139 Product Group IM-14 Revision: Date: 1/6/2021

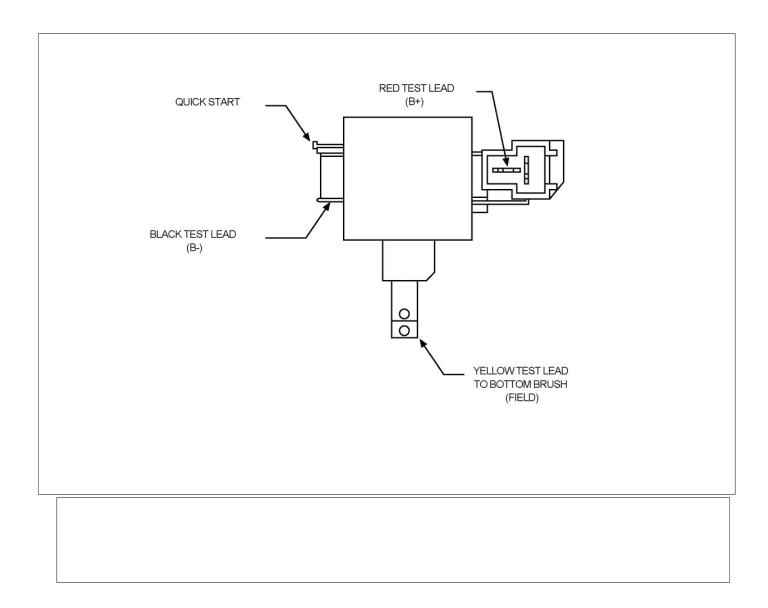
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM226	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

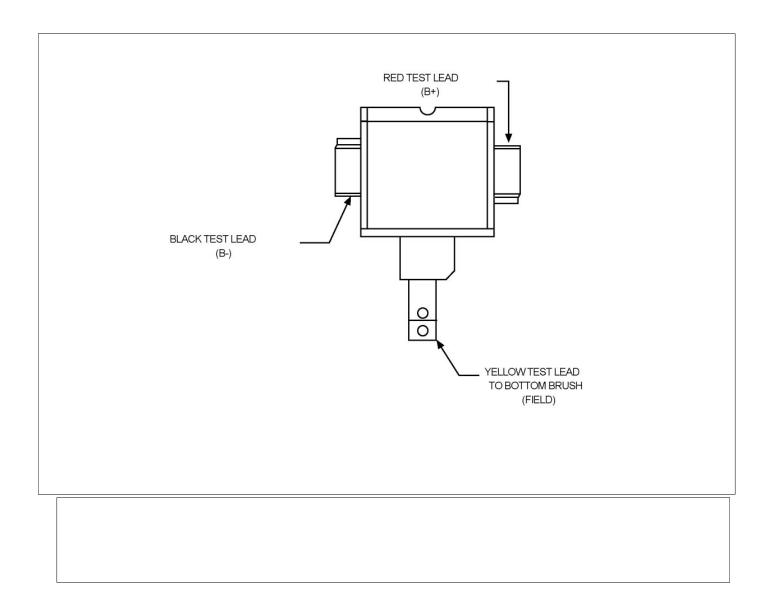


Page 140 Product Group IM-15 Revision: Date: <u>1/6/2021</u>

MITSUBISHI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM215	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 141 Product Group IM-16 Revision: Date : <u>1/6/2021</u>

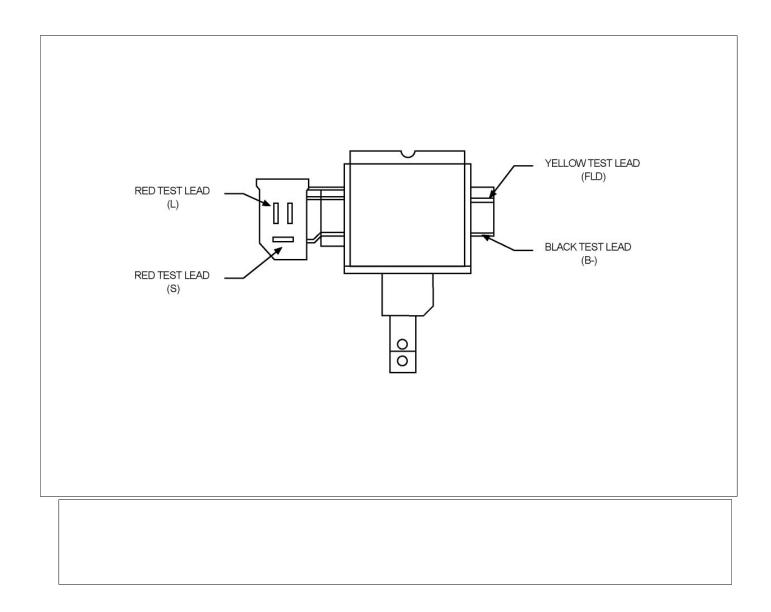
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM227	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 142 Product Group IM-17 Revision: Date : <u>1/6/2021</u>

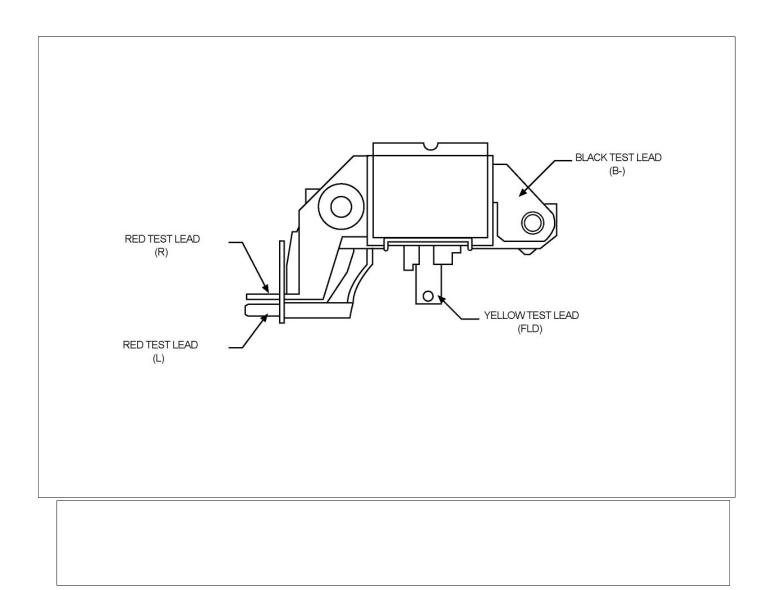
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM207	Α	12	14.5				
IM213	Α	24	28.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 143 Product Group IM-18 Revision: Date : <u>1/6/2021</u>

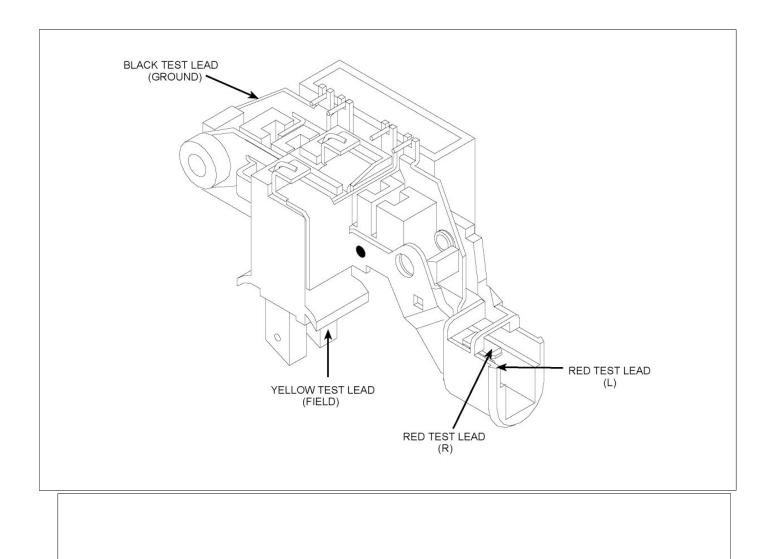
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM212	Α	24	28.4				
IM208	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 144 Product Group IM-19 Revision: Date : <u>1/6/2021</u>

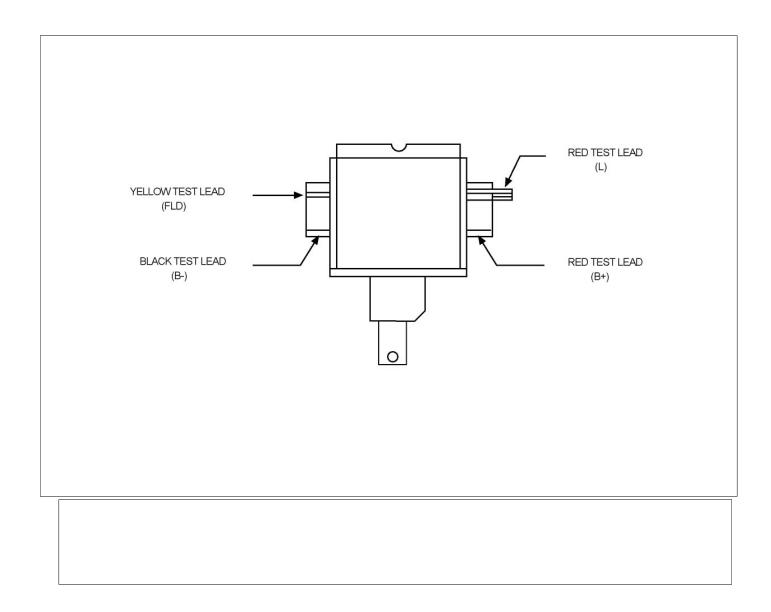
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM214	Α	24	28.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 145 Product Group IM-20 Revision: Date : <u>1/6/2021</u>

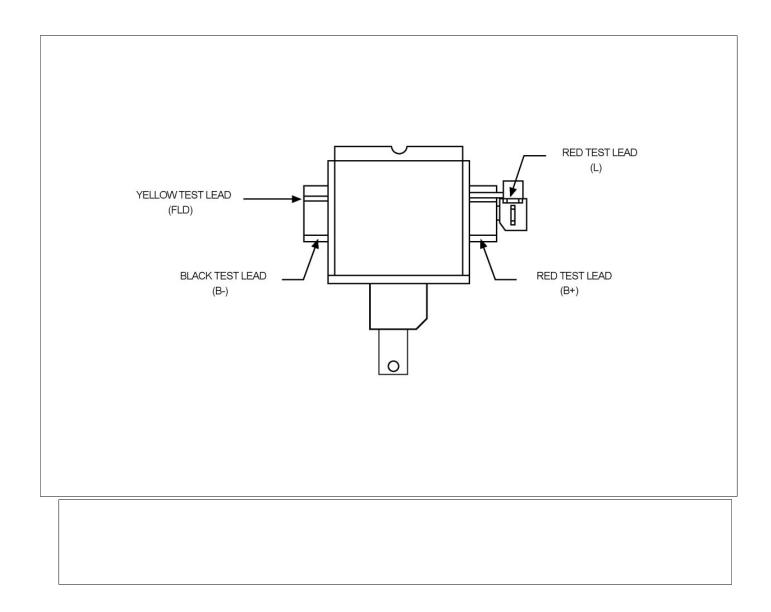
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM206	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 146 Product Group IM-21 Revision: Date : 1/6/2021

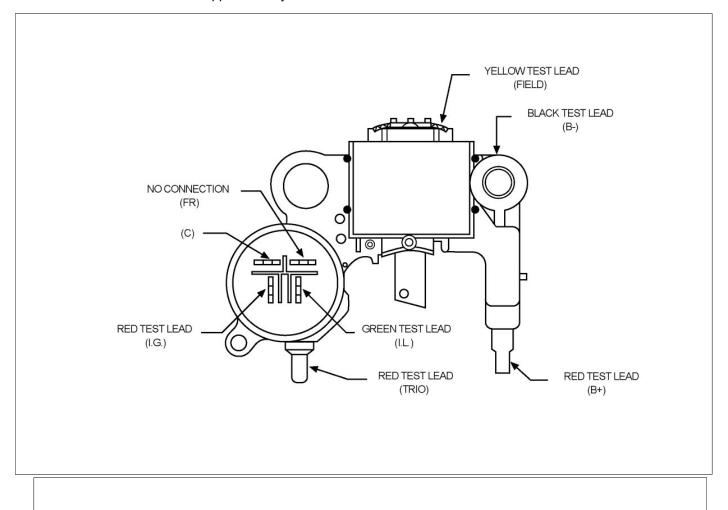
		for	MITSUBISHI	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IM273	Α	12	14.4					
IM839	Α	12	14.4					
IM835	Α	12	14.4					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "TRIO". field lamp should still blink indicator light will turn on and meter will indicate the set point voltage.

Reconnect red test lead to terminal marked "Trio". Connect black test lead to "C" terminal. Field lamp should still blink and meter will indicate approximately 12.5V.



Page 147 Product Group IM-22 Revision: 4/26/1905 Date: 1/6/2021

MITSUBISHI

for

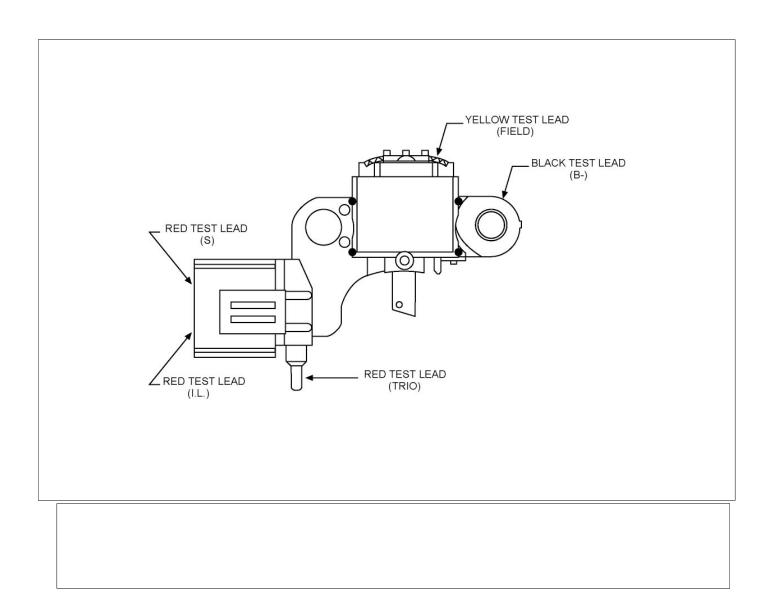
				3,111 131 11			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM282	Α	12	14.4				
IM281	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". field lamp should still blink and the meter will indicated approximately 15.5V.



Page 148 Product Group IM-23 Revision: Date : <u>1/6/2021</u>

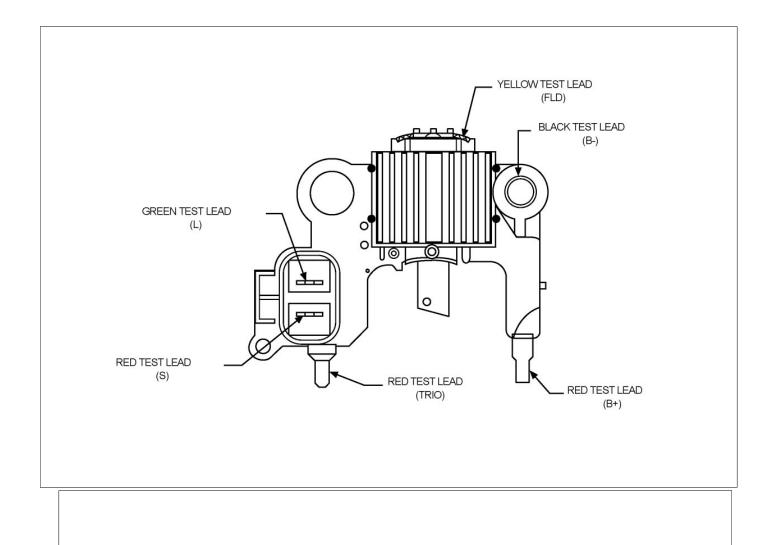
		for	MITSUBISHI	type regulate				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IM280	Α	12	14.4					
IM837	Α	12	14.4					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S" Indicator lamp should turn on, will still blink, and the meter will indicate approximately 15.5V.

Push the choke drive switch and the "Choke Drive Indicator Lamp" will turn on between 16.0V and 17.1V.



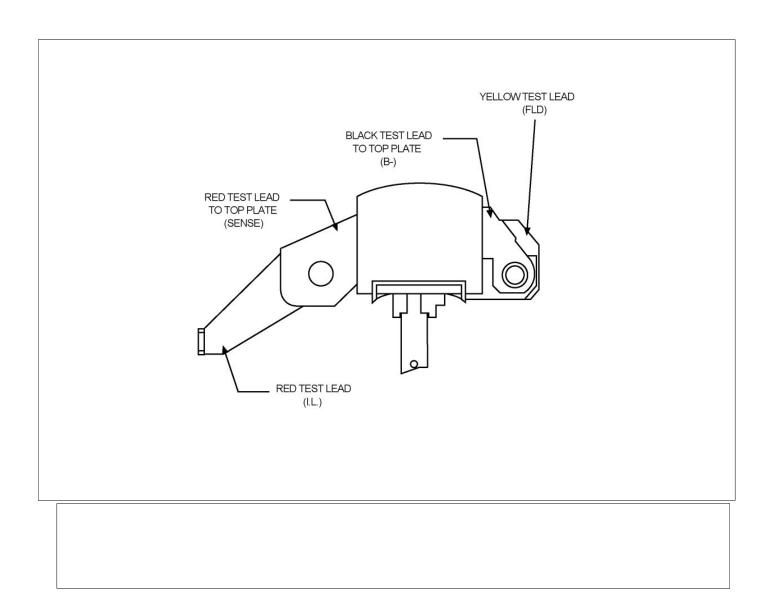
Page 149 Product Group IM-24 Revision: 4/26/1905 Date: 1/6/2021

		for	MITSUBISHI	type regulate			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM209	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S" field lamp will still blink, and the meter will indicate approximately 15.5V.



Product Group IM-26 Date: 1/6/2021 Revision: Page 150

MITSUBISHI

for

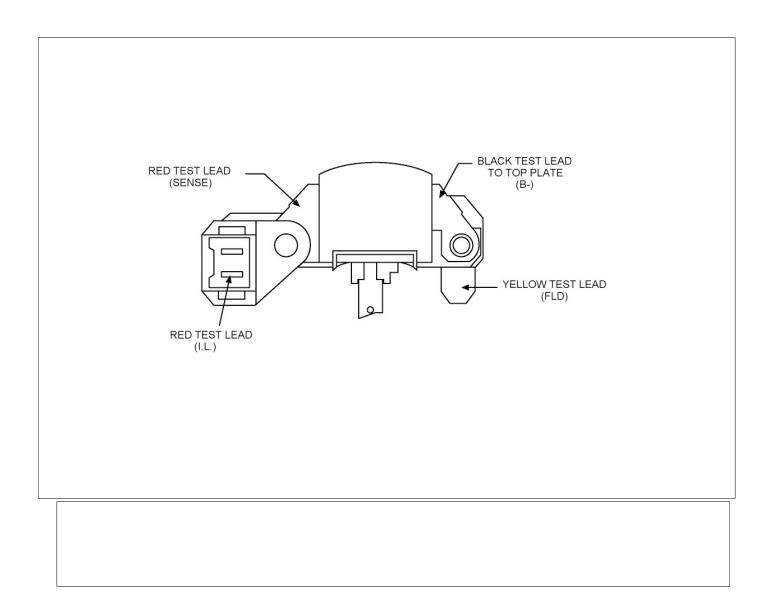
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM210	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp will still blink, and the meter will indicate approximately 15.5V.



Page 151 Product Group IM-27 Revision: Date : <u>1/6/2021</u>

MITSUBISHI

for

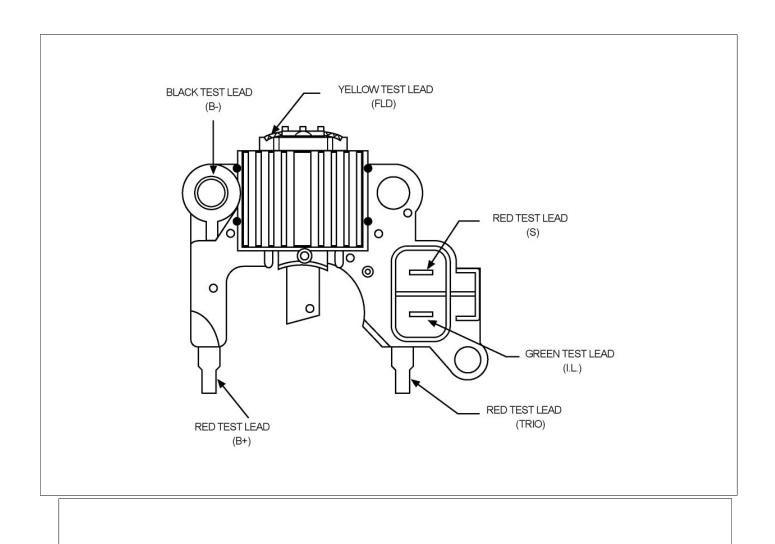
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM276	Α	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator light will turn on, Field lamp will still blink, and the meter will indicate approximately 15.5V.



Page 152 Product Group IM-28 Revision: Date: 1/6/2021

type regulators

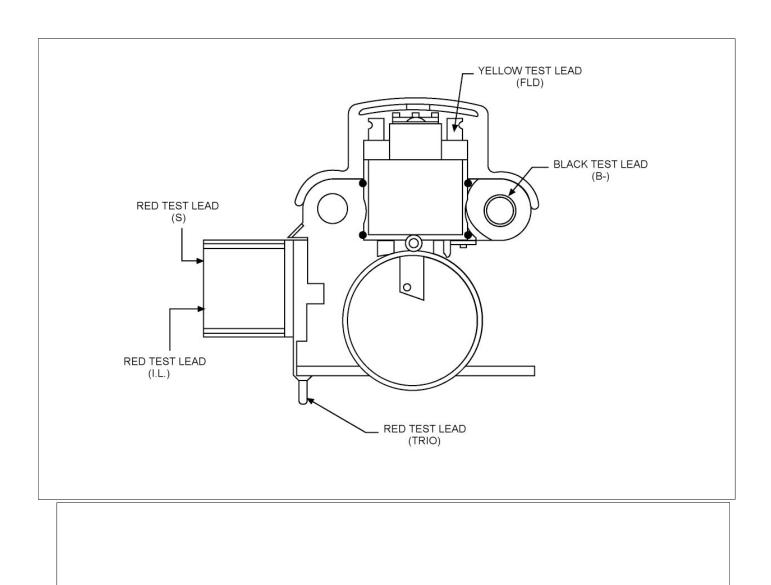
MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM287	A	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". The meter will indicate approximately 15.5V.



Page 153 Product Group IM-29 Revision: Date : <u>1/6/2021</u>

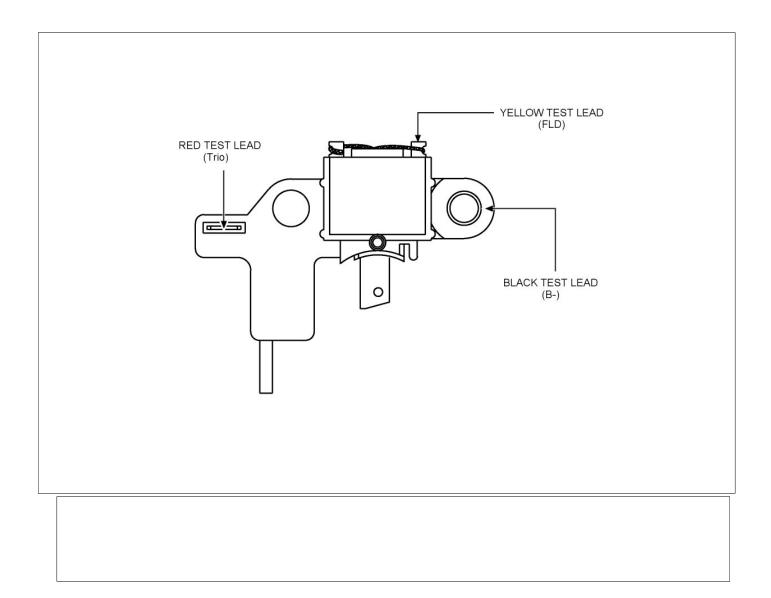
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM283	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 154 Product Group IM-30 Revision: 3/8/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

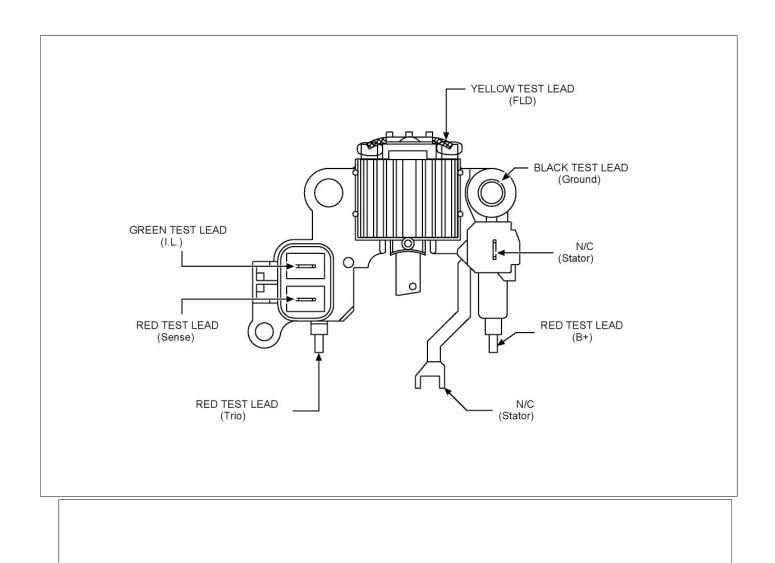
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM829	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator lamp should turn on, field lamp will still blink, and the meter will indicate approximately 15.5V.



Page 155 Product Group IM-31 Revision: 6/8/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

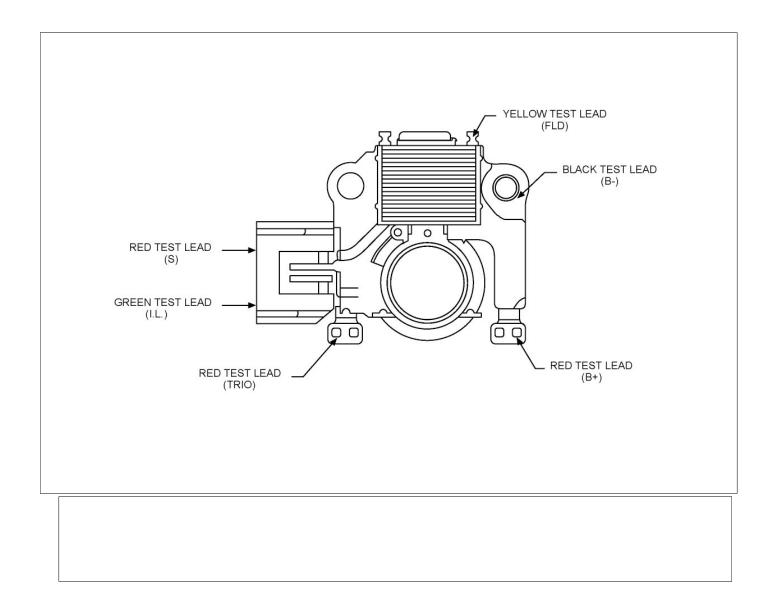
		···· —					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM830	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator lamp should turn on, field lamp will still blink, and the meter will indicate approximately 15.5V. and the lamp will turn on.



Page 156 Product Group IM-32 Revision: 10/27/1900 Date: 1/6/2021

type regulators

MITSUBISHI

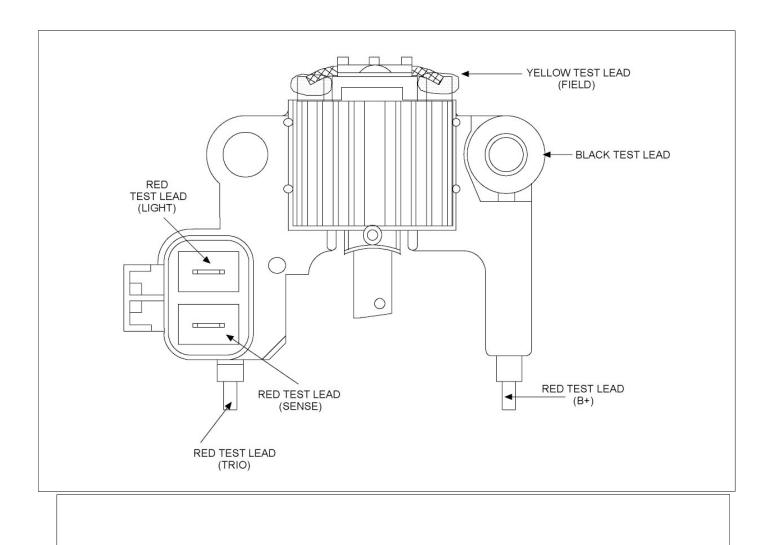
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM285	A	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5 volts.



Page 157 Product Group IM-33 Revision: 10/27/1900 Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

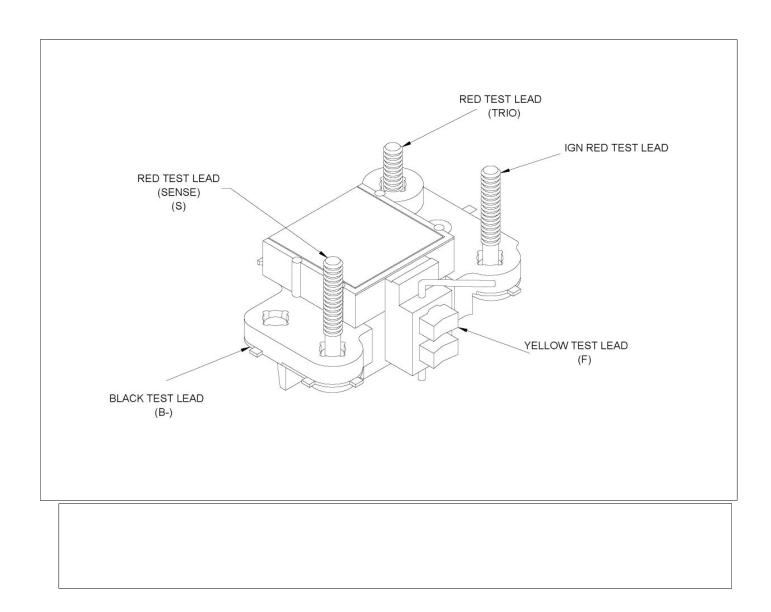
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM288	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5V.



Page 158 Product Group IM-34 Revision: Date: <u>1/6/2021</u>

type regulators

MITSUBISHI

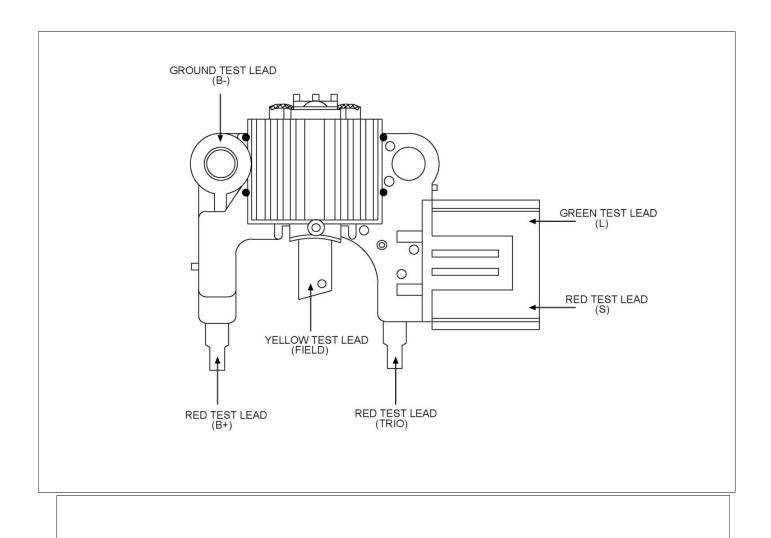
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM291	A	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S" Indicator lamp should turn on, field lamp will still blink, and the meter will indicate approximately 15.5V.



Page 159 Product Group IM-35 Revision: Date : <u>1/6/2021</u>

MITSUBISHI

for

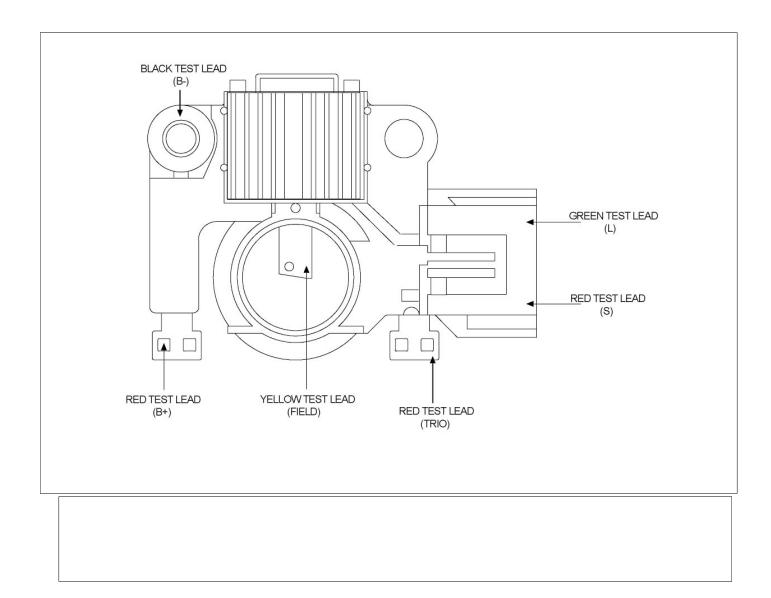
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM292	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S" field lamp will still blink, and the meter will indicate approximately 15.5V.



Page 160 Product Group IM-36 Revision: 12/12/1900 Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

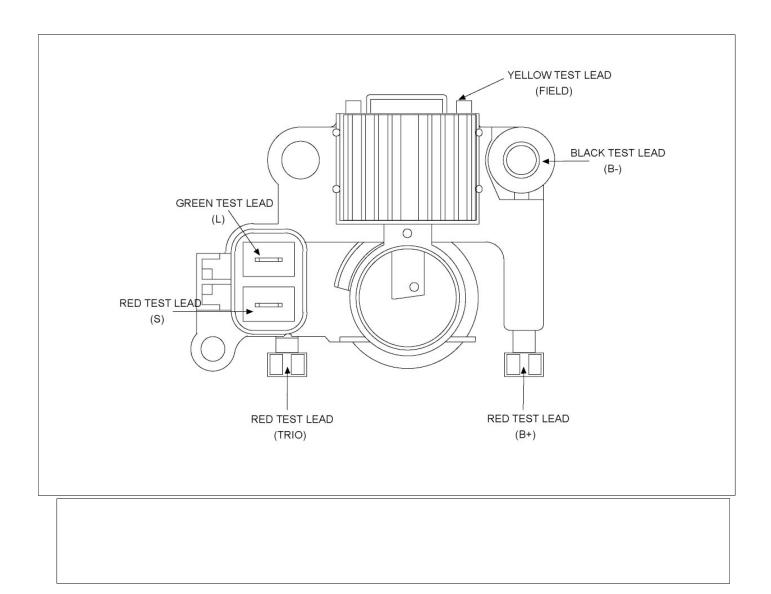
for

				,poogu.u.	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM832	Α	12	14.5				
IM832CN	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator lamp should turn on, field lamp will still blink, and the meter will indicate approximately 15.5V.



Page 161 Product Group IM-37 Revision: Date: 1/6/2021

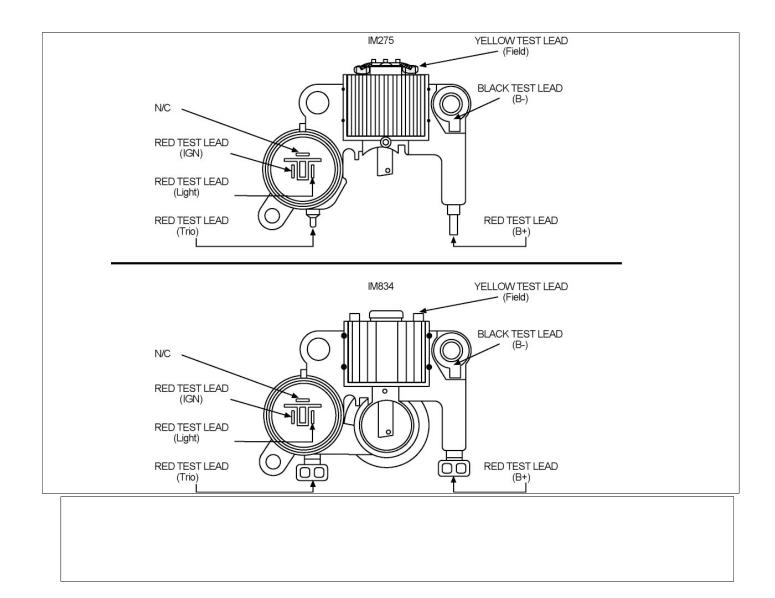
MITSUBISHI

for

				3,60003			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM275	Α	12	14.7				
IM834	Α	12	14.7				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 162 Product Group IM-38 Revision: 8/24/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

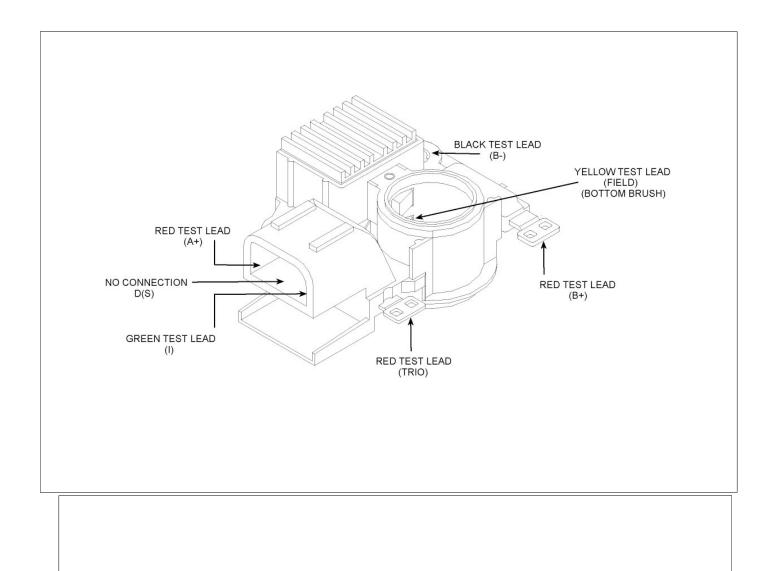
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM836	Α	14	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "A". Field lamp should still blink, indicator light will turn on and the meter will indicate approximately 15.5V.



Page 163 Product Group IM-39 Revision: 8/6/1999 Date: 1/6/2021

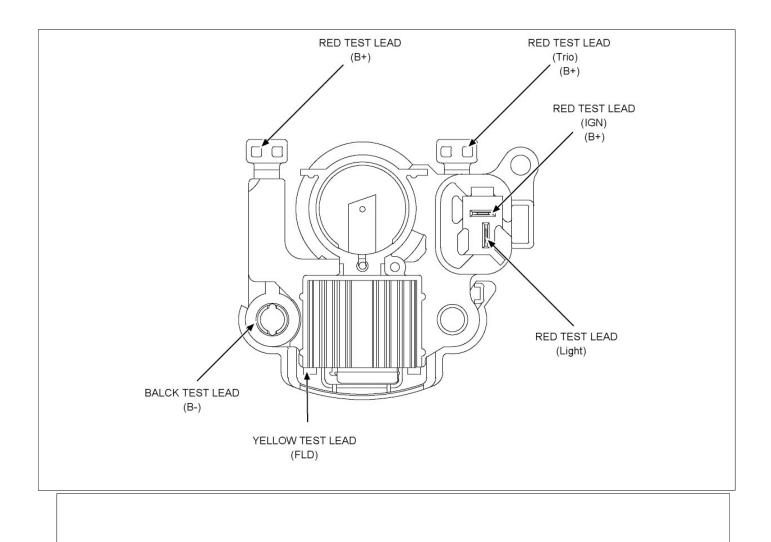
MITSUBISHI

for

		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM290	Α	12	14.7				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 164 Product Group IM-40 Revision: 8/31/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

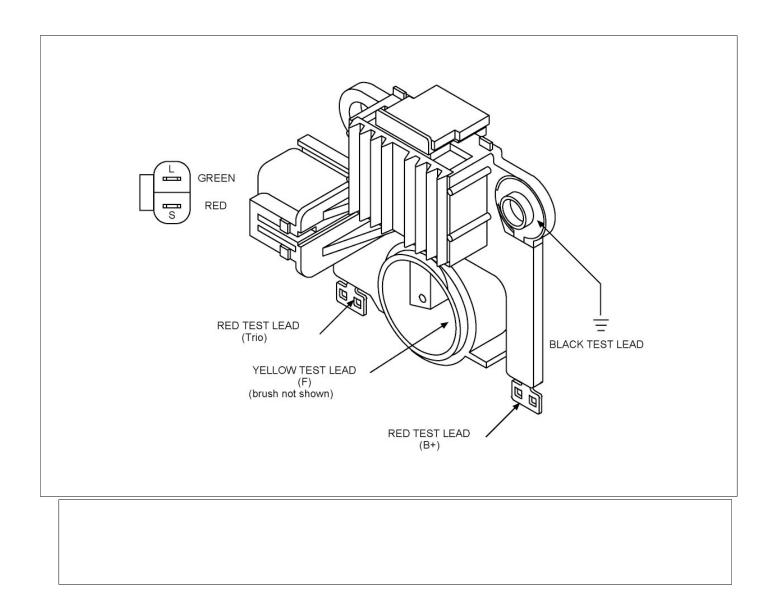
				3,60.03			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM830HD	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink, indicator light will turn on and the meter will indicate approximately 15.5 volts.



Page 165 Product Group IM-41 Revision: 8/6/1999 Date : <u>1/6/2021</u>

type regulators

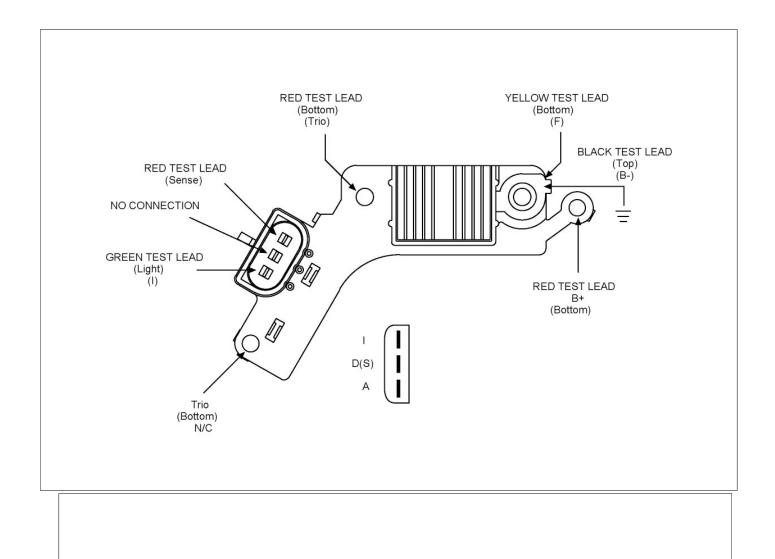
MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM840	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove red sense lead & indicator light will turn on & Voltage will rise to 15.5 volts.

for



Page 166 Product Group IM-42 Revision: 10/1/1998 Date : <u>1/6/2021</u>

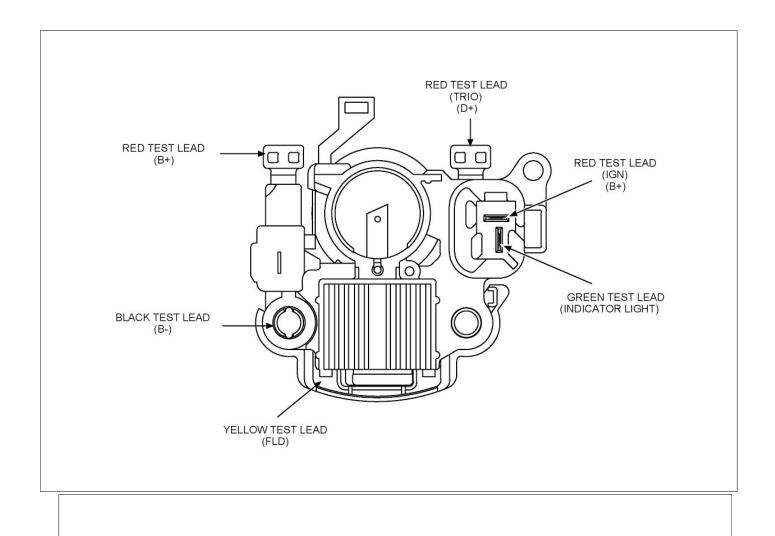
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM293	Α	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 167 Product Group IM-43 Revision: 3/8/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

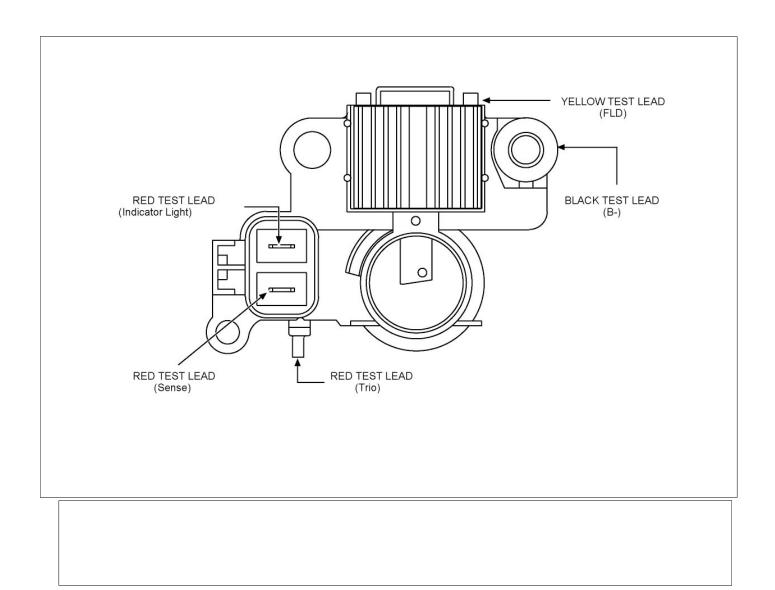
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM831	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp should still blink and the meter will indicate approximately 15.5 volts.



Page 168 Product Group IM-44 Revision: 3/9/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM845	Α	12	14.7				

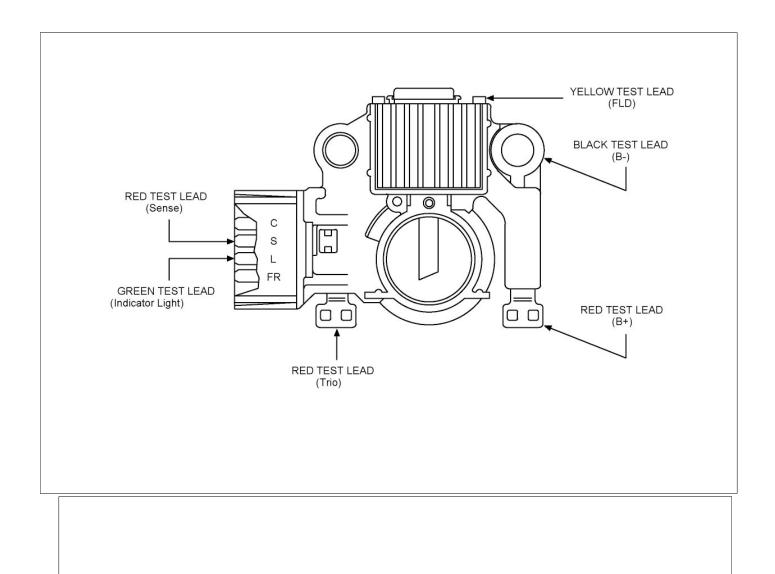
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect sense & voltage should rise to approximately 15.5 volts and light come on. Reconnect sense. Connect black test lead to "C", voltage should drop to approximately 12.5 volts.

Push the choke drive switch and the "Choke Drive Indicator Lamp" will turn on between 16.0V and 17.1V.



Page 169 Product Group IM-45 Revision: 4/26/1905 Date: 1/6/2021

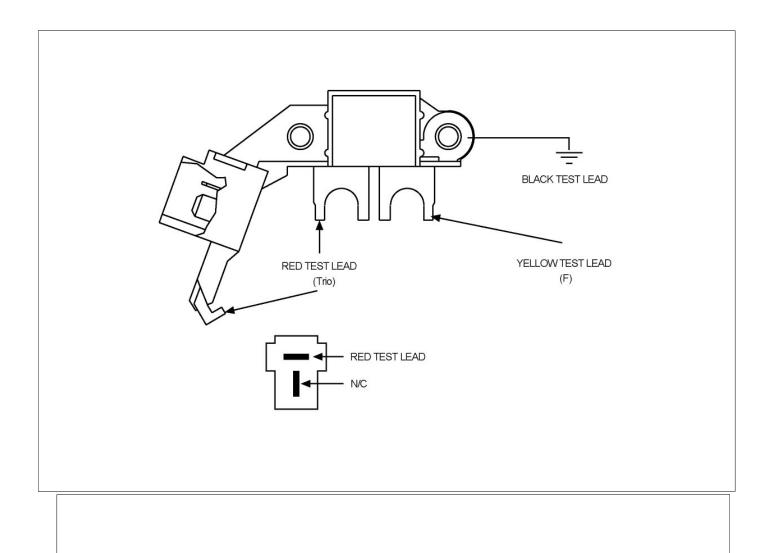
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM286	Α	24	28.7				
IM294	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 170 Product Group IM-46 Revision: 8/25/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

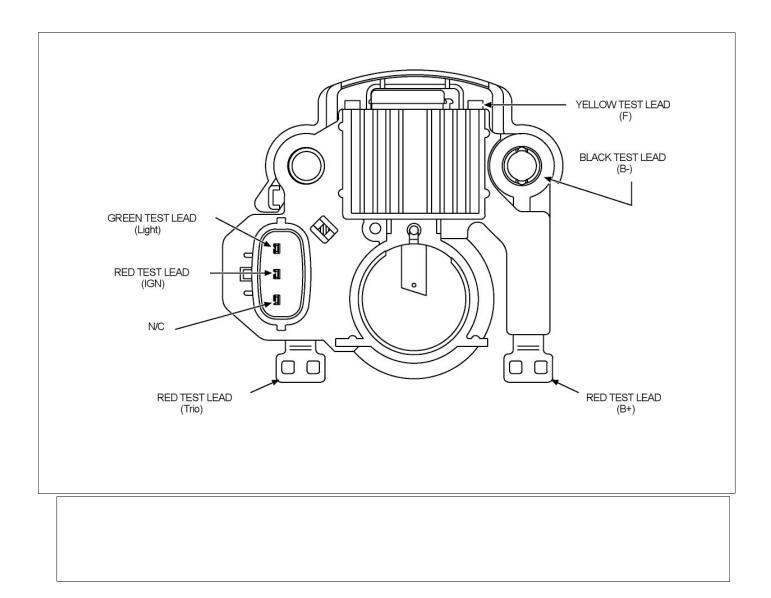
		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM318	Α	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the choke drive switch and the "Choke Drive Indicator Lamp" will turn on between 16.0V and 17.1V.



Page 171 Product Group IM-47 Revision: 4/26/1905 Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

for

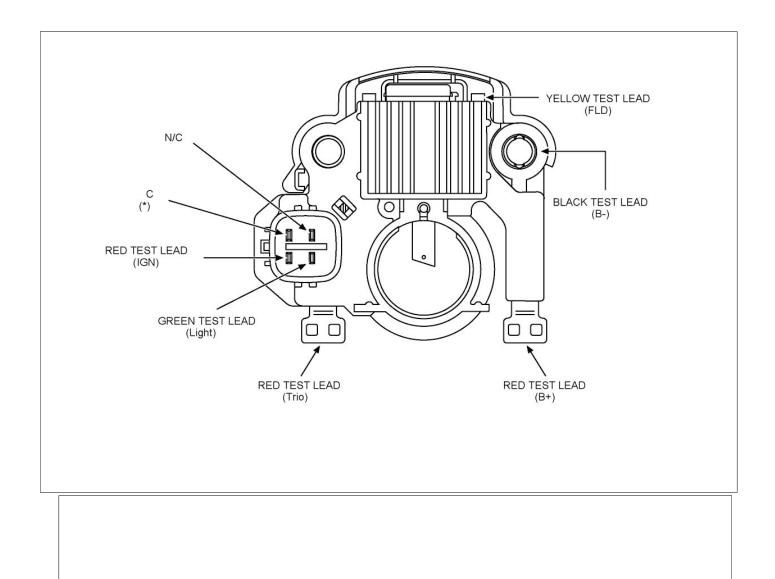
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM850	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect "C" terminal to tester, push Computer button and voltage will drop to approximately 12.5V. field lamp stays on.

Push the choke drive switch and the "Choke Drive Indicator Lamp" will turn on between 16.0V and 17.1V.



Page 172 Product Group IM-48 Revision: 4/26/1905 Date : <u>1/6/2021</u>

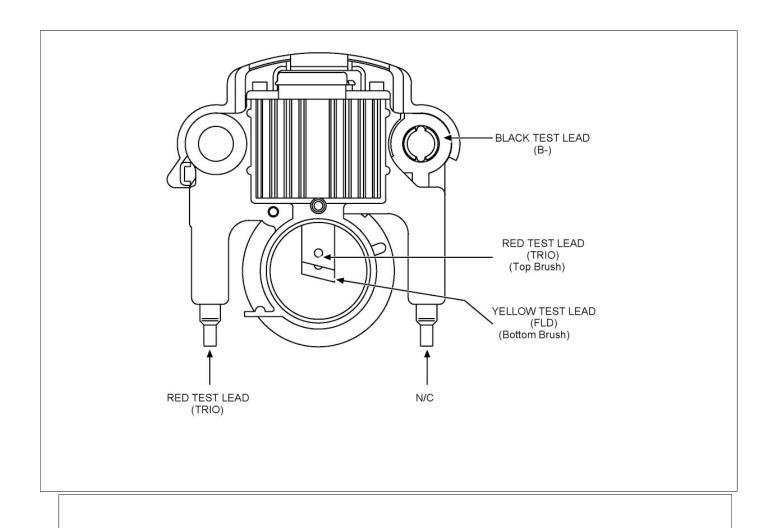
MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM232	A	12	14.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 173 Product Group IM-49 Revision: 11/22/1900 Date : <u>1/6/2021</u>

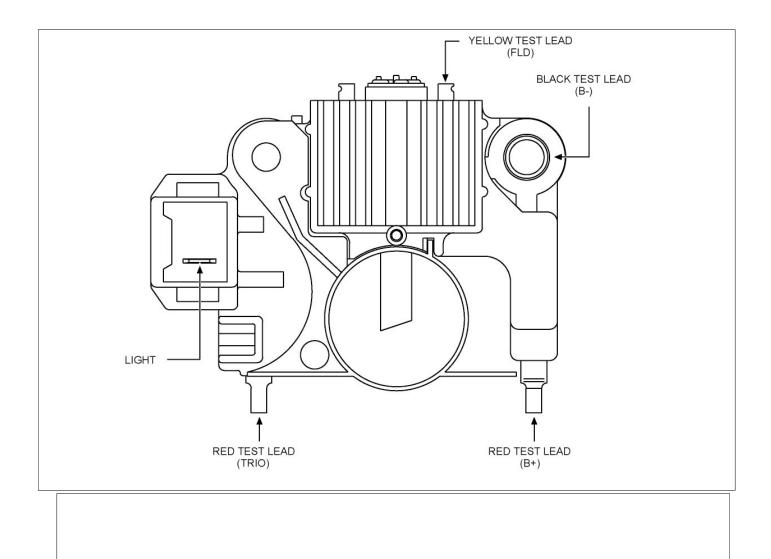
MITSUBISHI

for

				5,600 9			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM211	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 174 Product Group IM-50 Revision: 12/15/1999 Date : <u>1/6/2021</u>

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM381	Α	12	14.6				

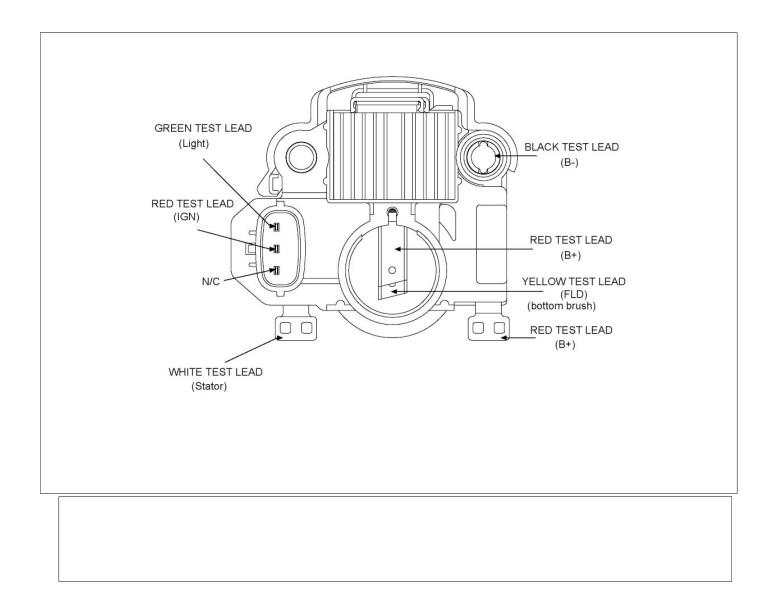
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead and lamp comes on, voltage drops to 12.0 volts and field light stays on . Remove green test lead from light and field light goes off.

Push the choke drive switch and the "Choke Drive Indicator Lamp" will turn on between 16.0V and 17.1V.



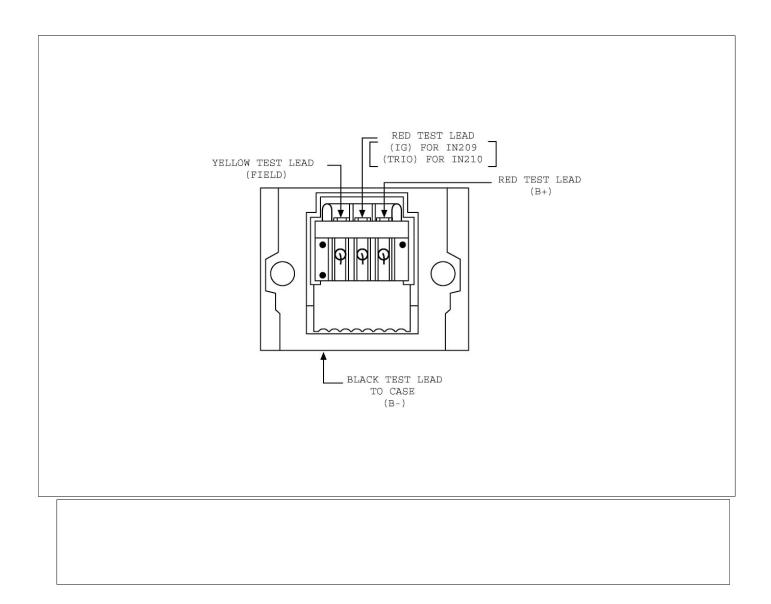
Page 175 Product Group IM-51 Revision: 4/26/1905 Date: 1/6/2021

NIPPONDENSO

PART NO. FLD **VOLT SET POINT** PART NO. FLD VOLT **SET POINT IN209** Α 12 14.5 **IN210** Α 12 14.5

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



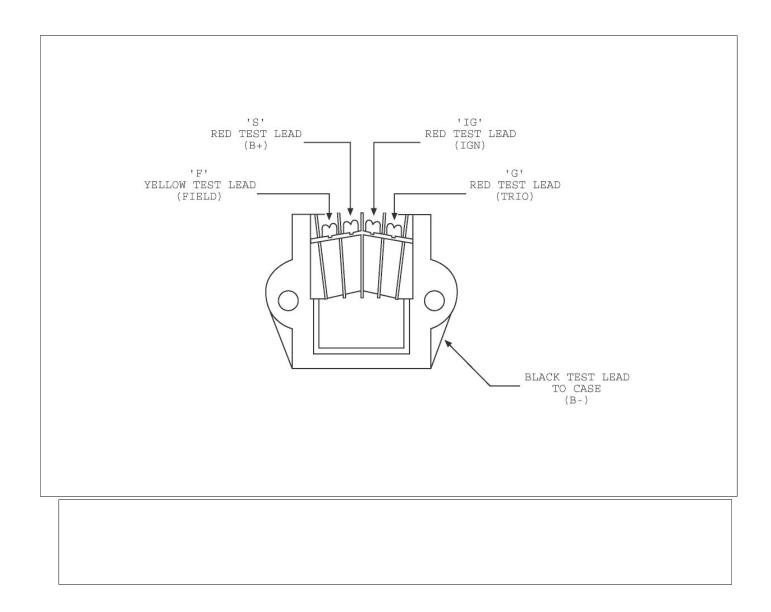
Page 176 Product Group IN-01 Revision: 3/26/1998 Date : <u>1/6/2021</u>

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN234	A	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp will still blink, and the meter will indicate approximately 15.0V. \square

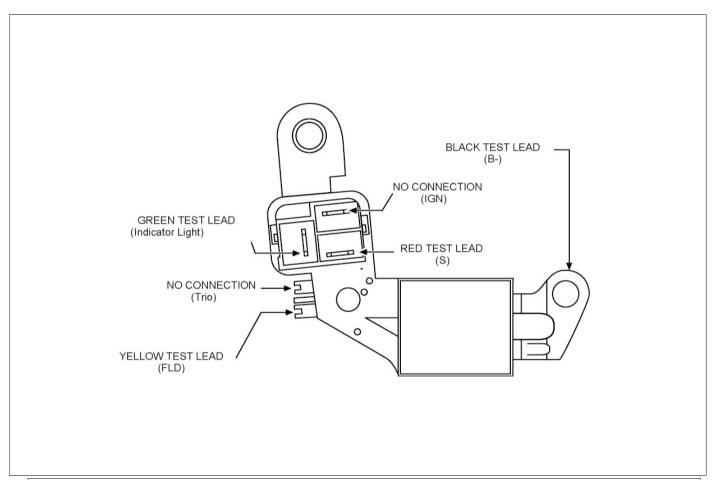


Page 177 Product Group IN-02 Revision: Date : <u>1/6/2021</u>

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN229	Α	12	14.1				
IN229HD	Α	12	14.1				

NIPPONDENSO type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



NOTE: When testing the Transpo IN229 or the Original Equipment voltage regulators, the short circuit light may flash and the meter will indicate the set point voltage.

Page 178 Product Group IN-03 Revision: 3/12/1999 Date: 1/6/2021

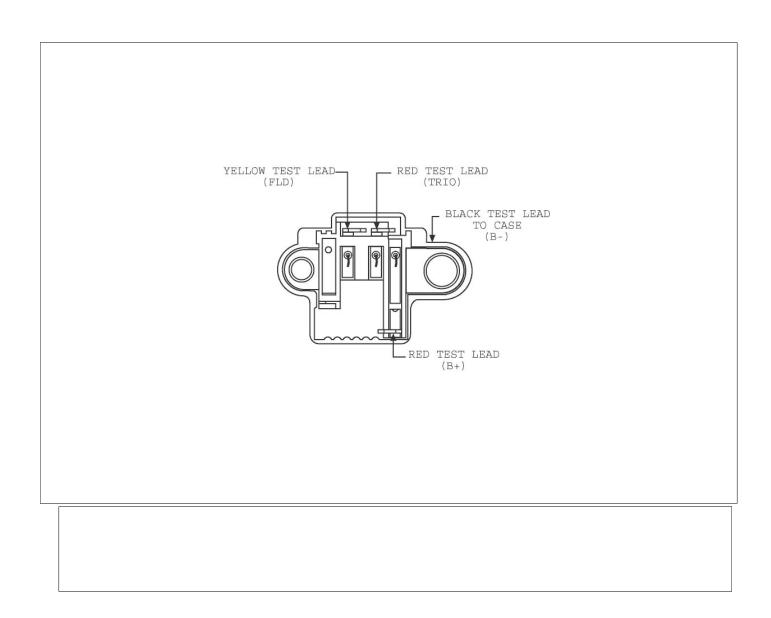
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN218	Α	12	14.2				
IN217	Α	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "B+.". The meter should indicate approximately 17V on the IN218 regulator and 28V on the IN236 regulator.

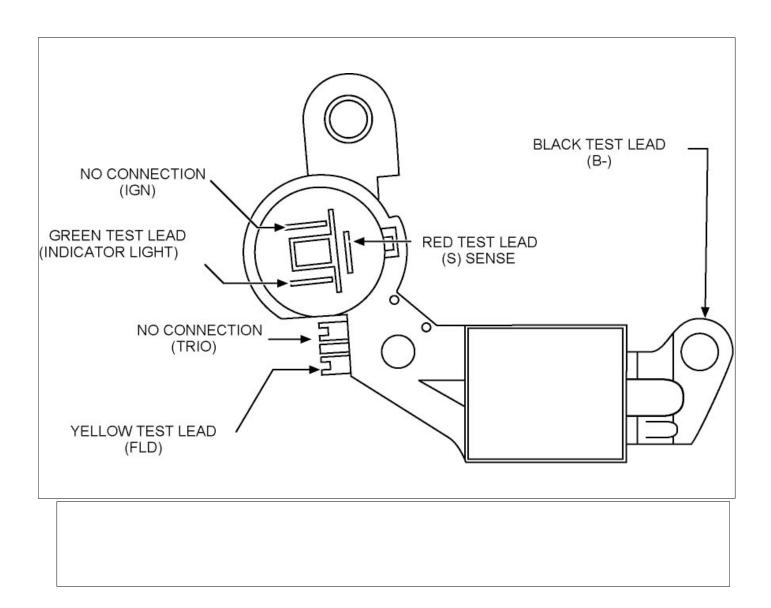


Page 179 Product Group IN-04 Revision: Date : <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

							
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN235	Α	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



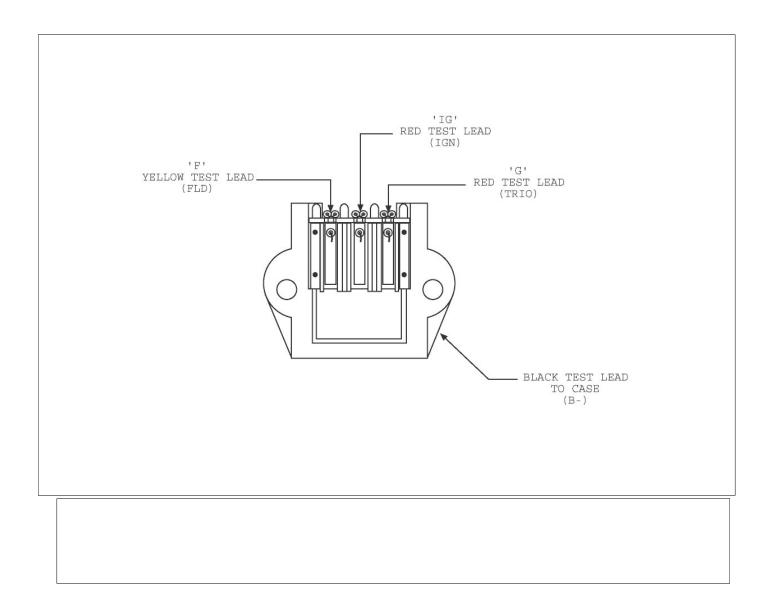
Page 180 Product Group IN-05 Revision: 3/12/1999 Date : <u>1/6/2021</u>

type regulators

NIPPONDENSO

PART NO. FLD **VOLT SET POINT** PART NO. FLD VOLT **SET POINT IN231** Α 12 14.4 **IN232** Α 12 14.3

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 181 Product Group IN-06 Revision: Date : <u>1/6/2021</u>

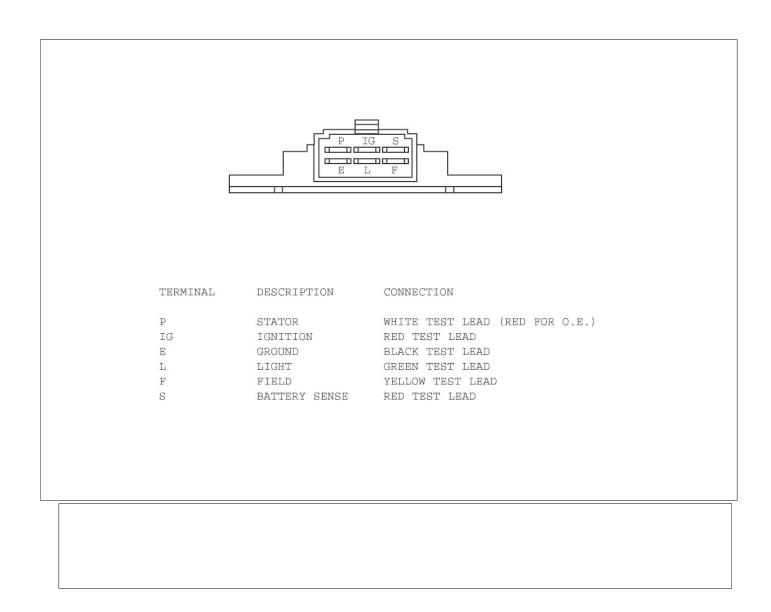
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN223	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from terminal marked "P" Indicator light should turn on, field lamp will remain on, and the meter will indicate approximately 12.0V.

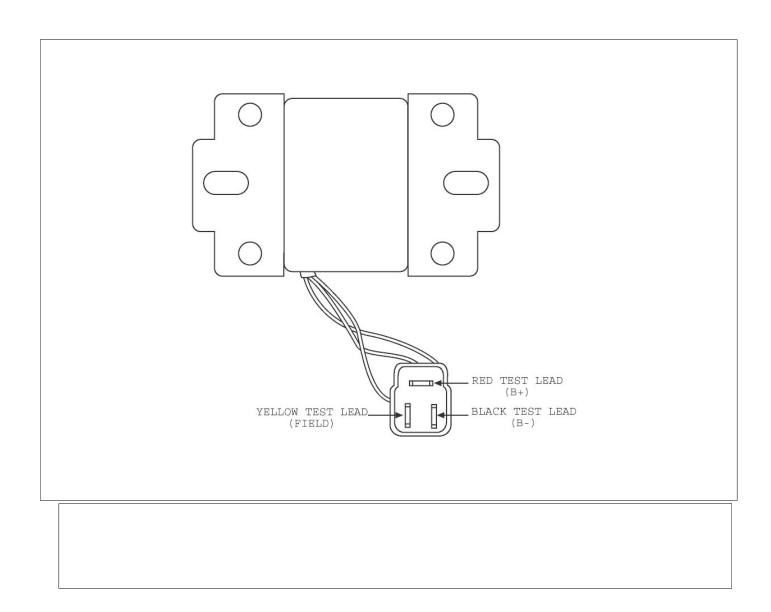


Page 182 Product Group IN-07 Revision: Date: 1/6/2021

NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 183 Product Group IN-08 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO

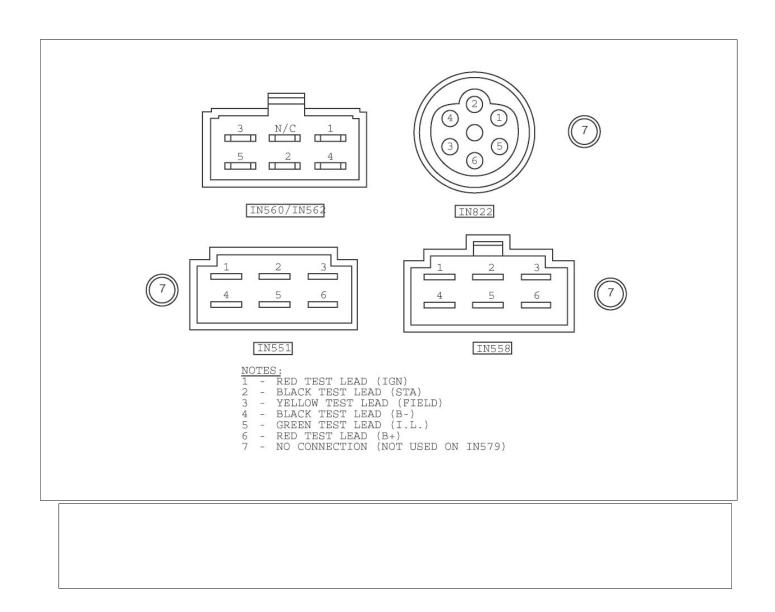
PART NO. **FLD VOLT SET POINT VOLT SET POINT** PART NO. FLD IN551 **IN822** В 12 14.3 В 12 14.3 **IN558** 14.3 **IN579** 14.3 В 12 В 12 **IN560** В 12 14.3 12 IN562 В 14.3

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove black test lead from terminal marked "STA". Indicator light should turn on and the meter will indicate the set point voltage.



Page 184 Product Group IN-09 Revision: 10/20/1997 Date: <u>1/6/2021</u>

NIPPONDENSO

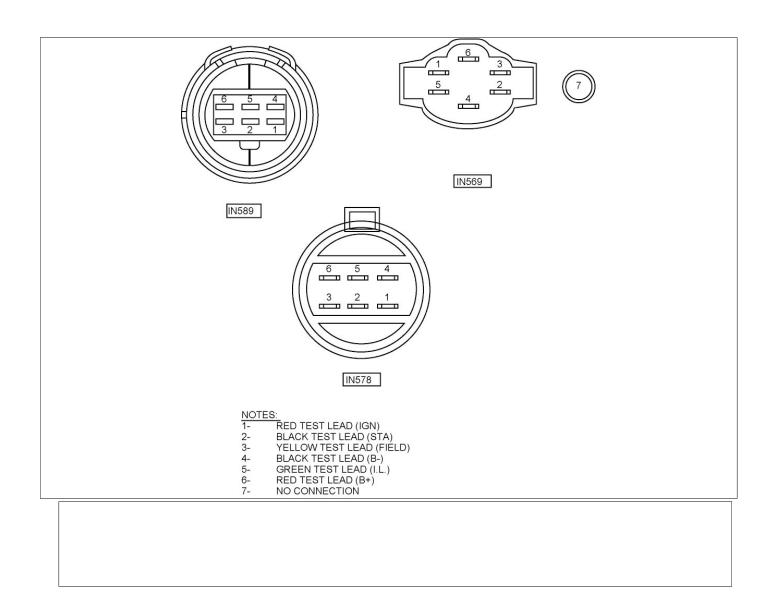
PART NO. **FLD VOLT SET POINT** FLD **VOLT SET POINT** PART NO. **IN569** В 12 14.3 **IN578** 14.3 В 12 **IN589** В 12 14.3

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove black test lead from terminal marked "STA". Indicator light should turn on and the meter will indicate the set point voltage.

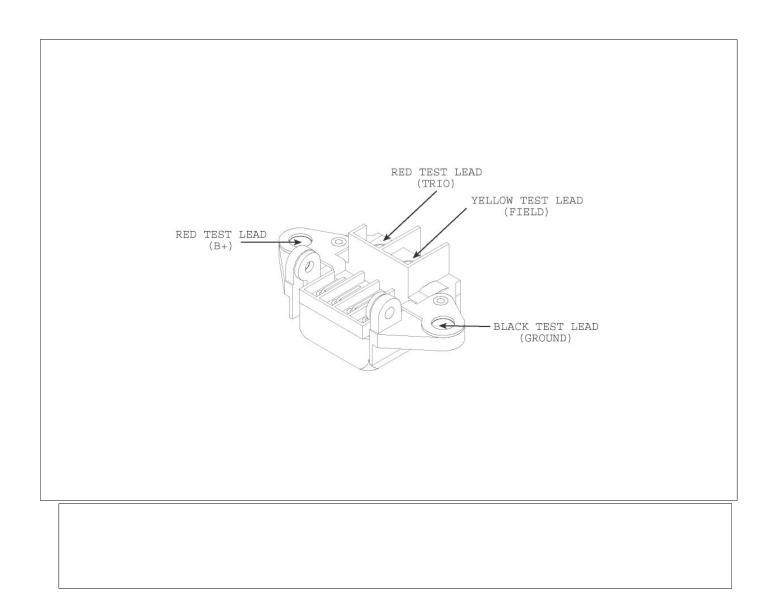


Page 185 Product Group IN-10 Revision: Date: 1/6/2021

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN233	Α	24	28				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 186 Product Group IN-11 Revision: Date: <u>1/6/2021</u>

							
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN441	Α	14	14.3				
T7441	Α	14	14.3				

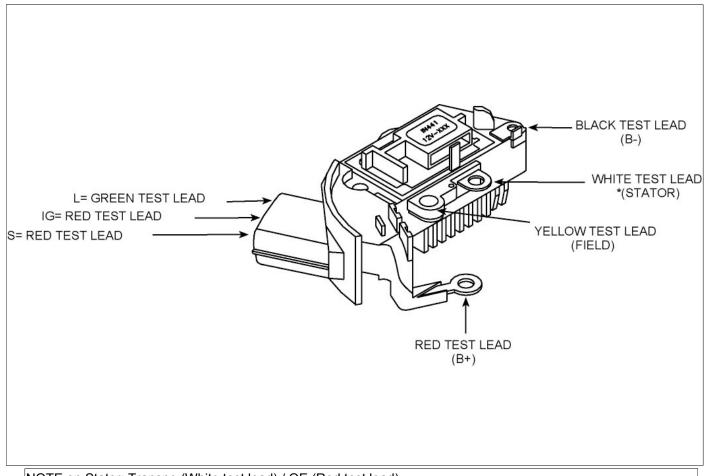
NIPPONDENSO type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked Stator. Indicator light will turn on and meter will indicate 12V; Field circuit light stays on. Reconnect. Remove red test lead from terminal marked "IG"; field lamp should turn off meter will indicate 12V.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



NOTE on Stator: Transpo (White test lead) / OE (Red test lead)

Page 187 Product Group IN-12 Revision: 4/26/1905 Date: 1/6/2021

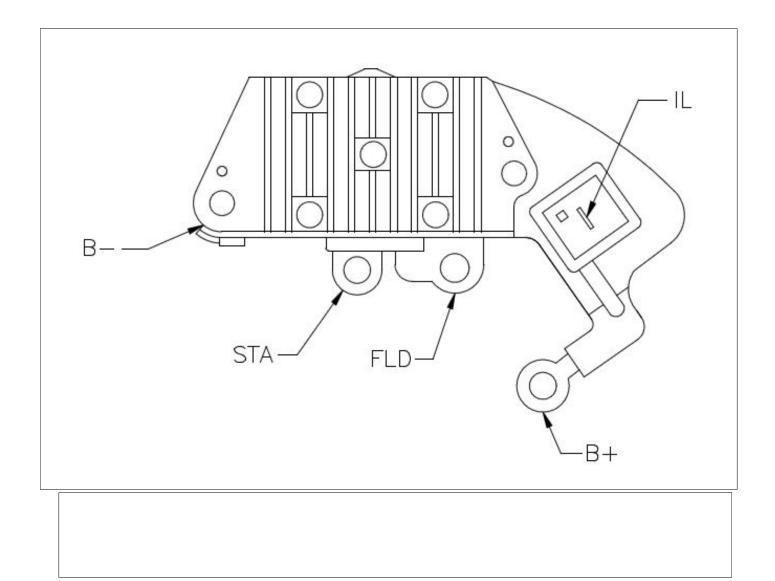
NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked stator. Indicator light will come on.



Page 188 Product Group IN-13 Revision: 10/20/1997 Date : <u>1/6/2021</u>

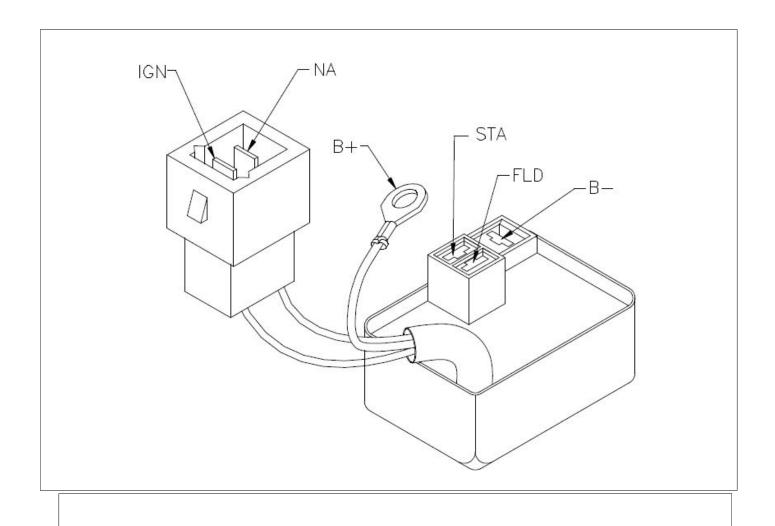
NIPPONDENSO

PART NO. FLD VOLT SET POINT PART NO. FLD VOLT **SET POINT**

type regulators

IN601	В	12	14.3		

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Date: 1/6/2021 Product Group IN-15 Revision: Page 189

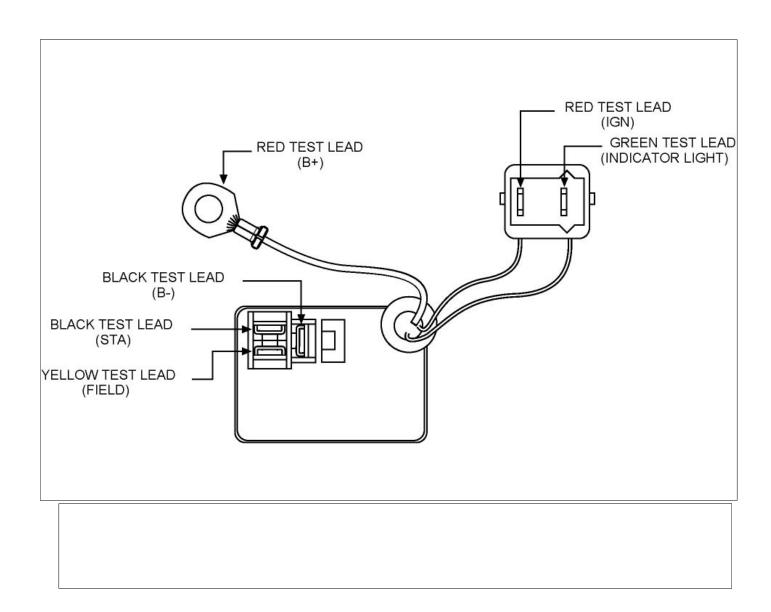
TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN602	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove black test lead from terminal marked "STA". Indicator light turn on and the meter will indicator light should turn on and the meter will indicate the set point voltage.

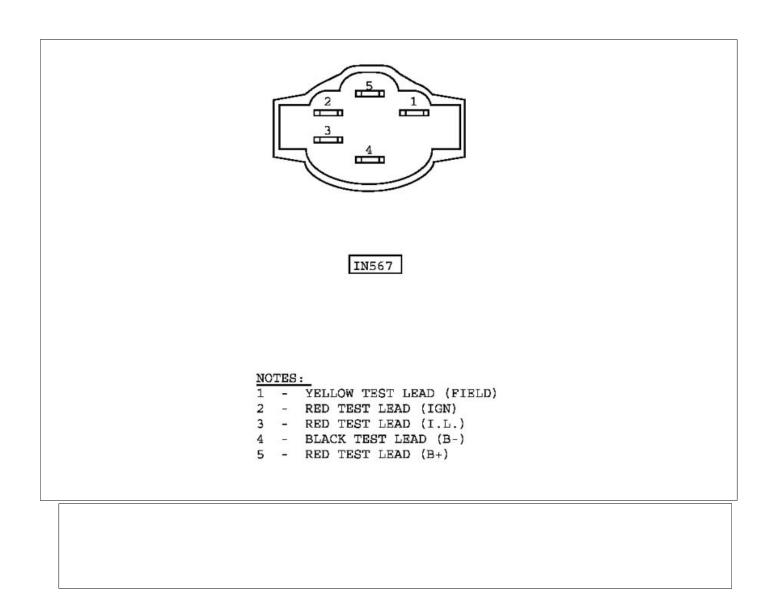


Page 190 Product Group IN-16 Revision: Date: 1/6/2021

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN567	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

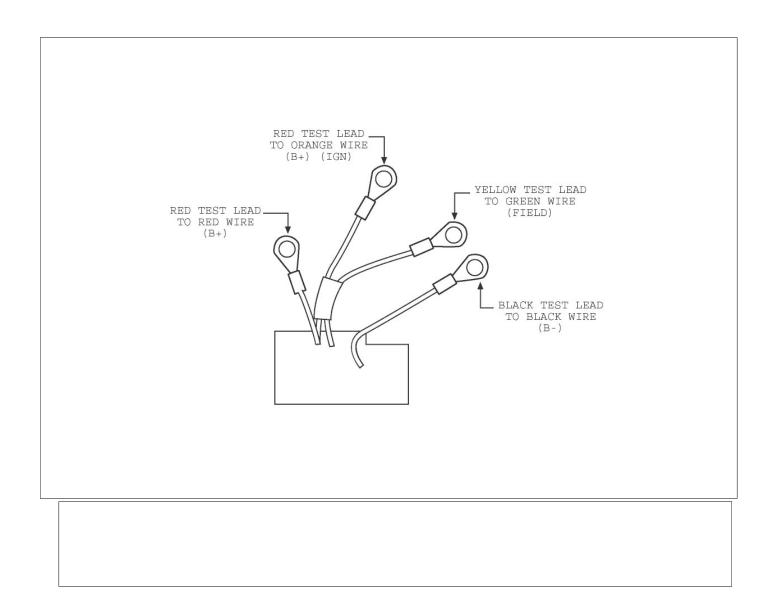


Page 191 Product Group IN-20 Revision: Date : <u>1/6/2021</u>

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN8315	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

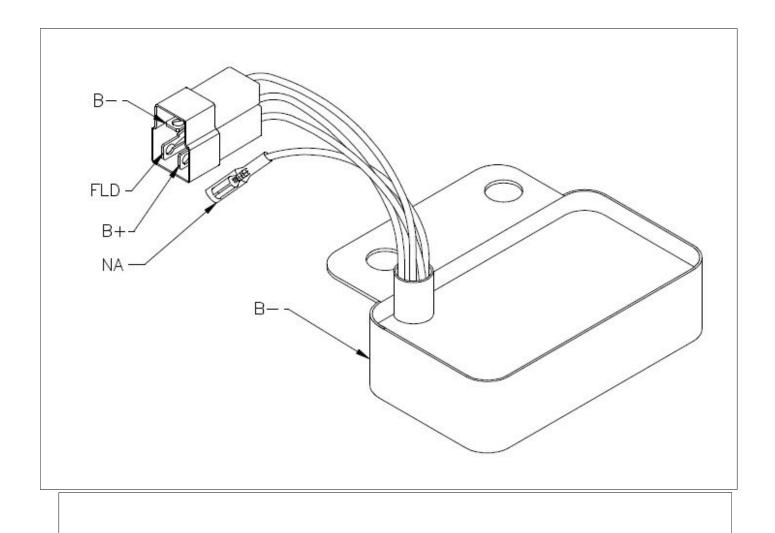


Page 192 Product Group IN-21 Revision: Date : <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN554	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

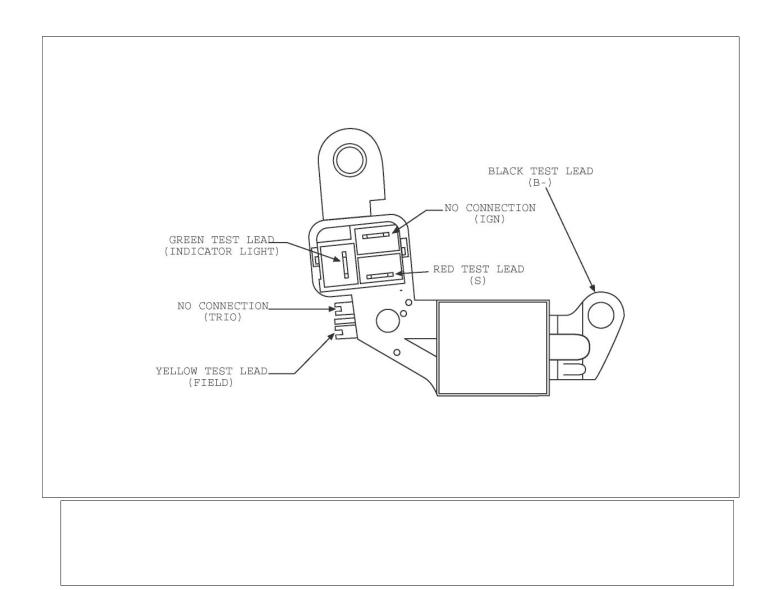


Page 193 Product Group IN-22 Revision: Date : 1/6/2021

NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 194 Product Group IN-23 Revision: Date: <u>1/6/2021</u>

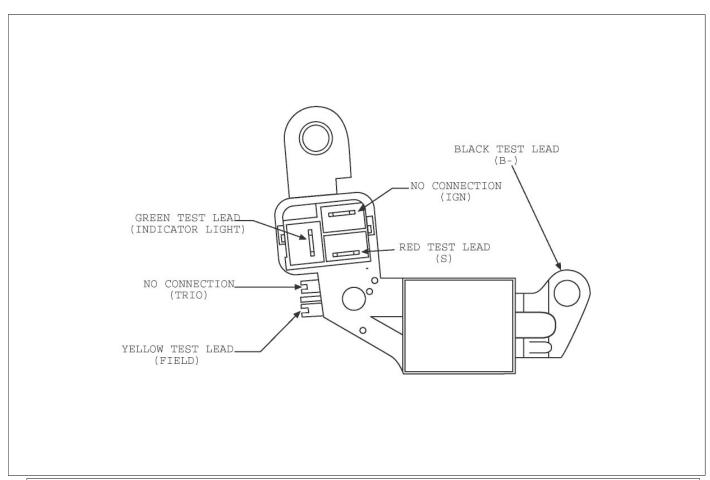
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN230	Α	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator light will come on and voltage will rise to approximately 16 volts.



NOTE: When testing the Transpo IN230 or the Original Equipment voltage regulators, the short circuit light may flash and the meter will indicate the set point voltage.

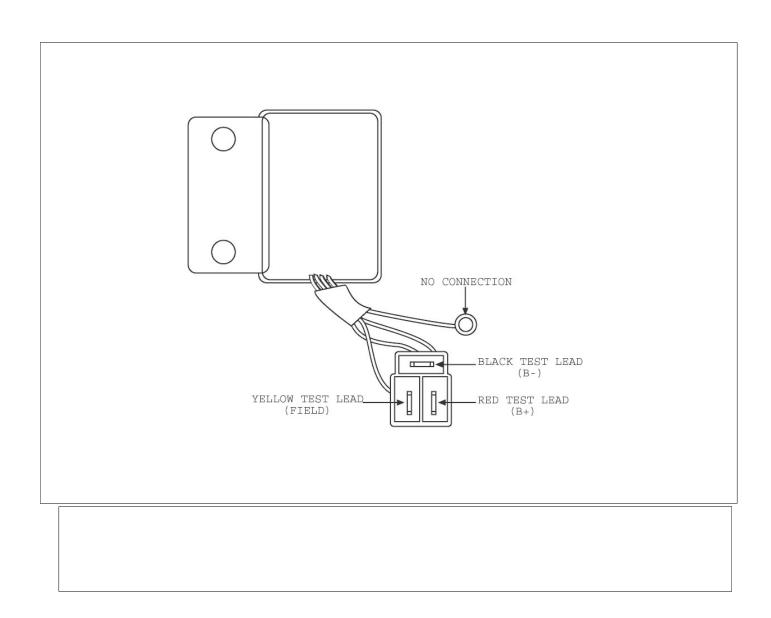
Page 195 Product Group IN-24 Revision: Date: 1/6/2021

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN568	В	12	14.3				

NIPPONDENSO type regulators

IN568	В	12	14.3		

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Date: 1/6/2021 Product Group IN-25 Revision: Page 196

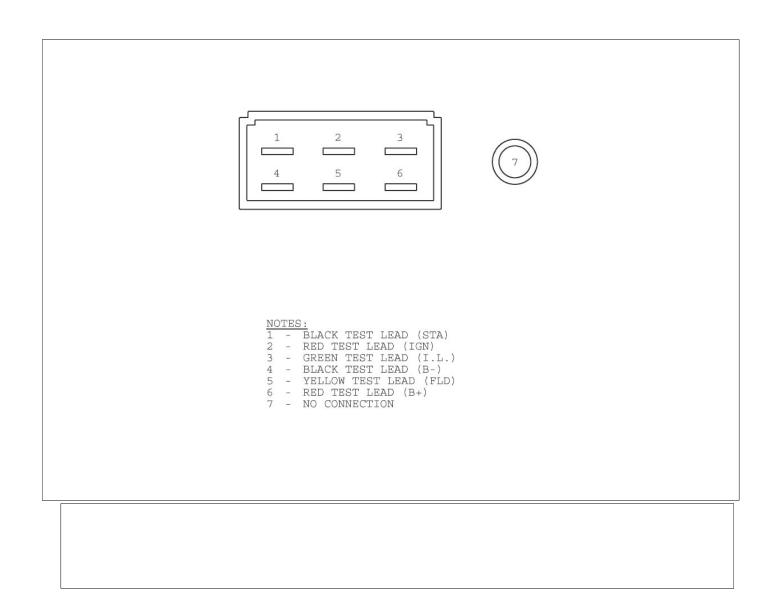
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN821	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove black test lead from the terminal marked "STA". The indicator light should turn on and the meter will indicate the set point voltage.



Page 197 Product Group IN-26 Revision: Date: 1/6/2021

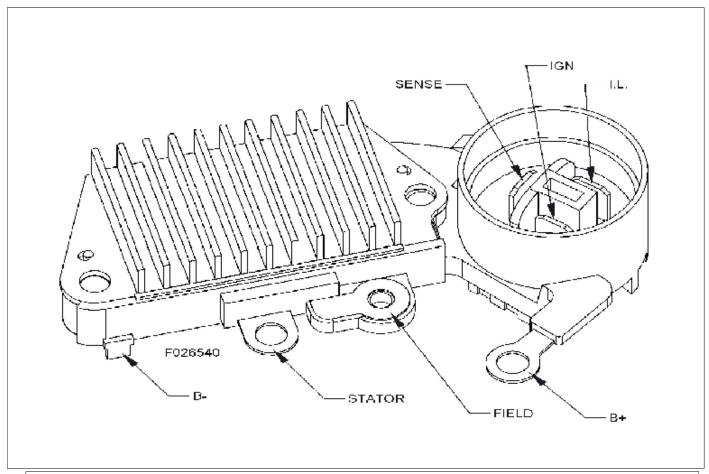
NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN220	A	12	14.4	IN436	Α	12	14.0
IN226	Α	12	14.4	IN437	Α	12	14.4
IN250	Α	12	14.4	IN439	Α	12	14.4
IN256	Α	12	14.4	IN444	A	12	14.4

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from the terminal marked "*". The indicator light will turn on and the meter will indicate approximately 12V and the field lamp will remain fully on (this is the soft start mode of the regulator). To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



NOTE on Stator: Transpo (White test lead) / OE (Red test lead)

Page 198 Product Group IN-41 Revision: 4/26/1905 Date: 1/6/2021

NIPPONDENSO

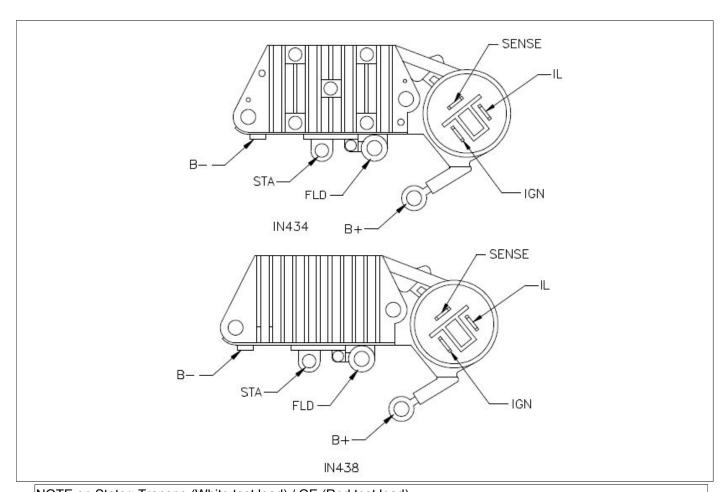
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN434	Α	12	14.3				
IN438	Α	12	14.3				
T7438	Α	12	14.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from the terminal marked "*". The indicator light will turn on and the meter will indicate approximately 12V and the field lamp will remain fully on (this is the soft start mode of the regulator). To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



NOTE on Stator: Transpo (White test lead) / OE (Red test lead)

Page 199 Product Group IN-28 Revision: 4/26/1905 Date: <u>1/6/2021</u>

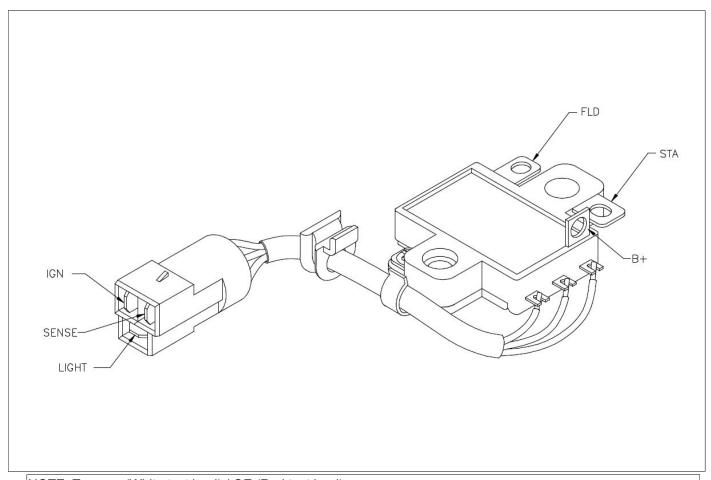
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN920	A	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove the white test lead from the terminal marked stator, the indicator light will turn on and the meter will indicate approximately 12V. The field lamp will remain fully on . (This is the soft -start mode of the regulator)



NOTE: Transpo (White test lead) / OE (Red test lead)

Page 200 Product Group IN-30 Revision: Date: 1/6/2021

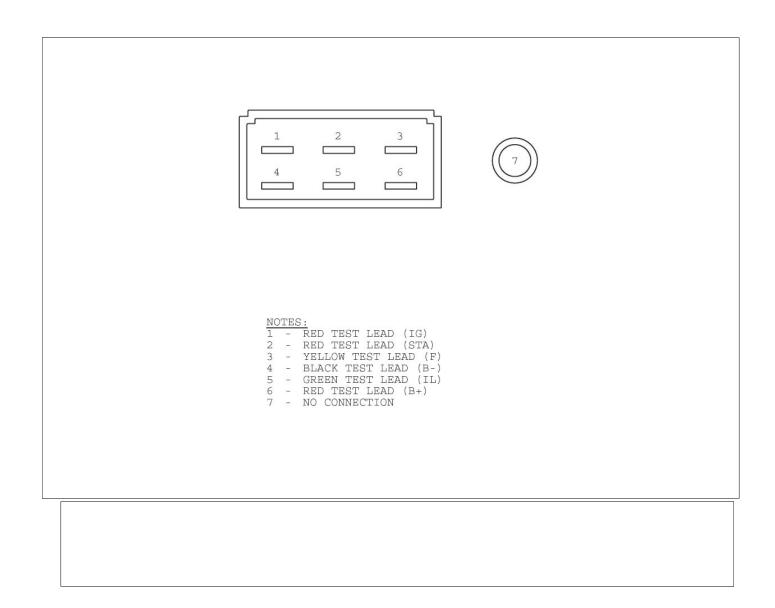
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN555	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove the white test lead from the terminal marked stator, The indicate approximately 12V. The field lamp will remain fully on, (This is the soft-start mode of the regulator.)



Page 201 Product Group IN-31 Revision: 10/20/1997 Date: <u>1/6/2021</u>

NIPPONDENSO

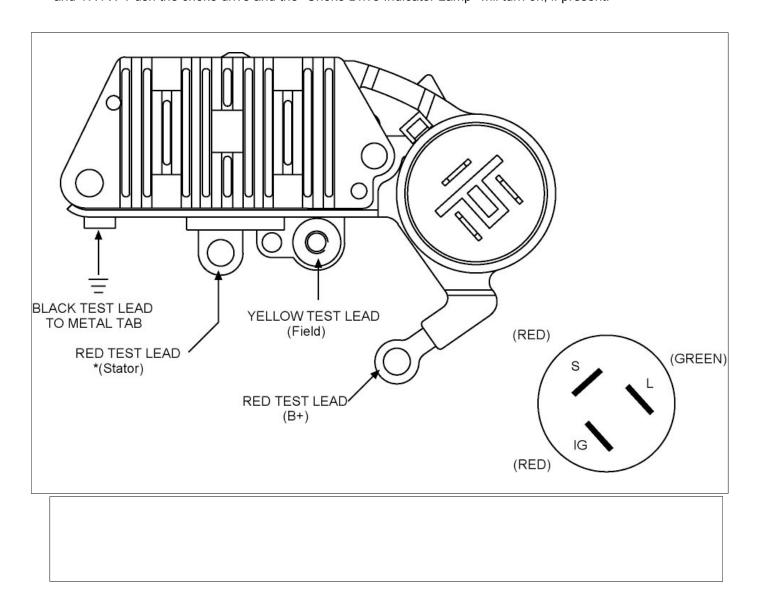
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from the terminal marked "*". The indicator light will turn on and the meter will indicate approximately 14.6v. and the field lamp will remain fully on.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



Page 202 Product Group IN-32 Revision: 4/26/1905 Date: <u>1/6/2021</u>

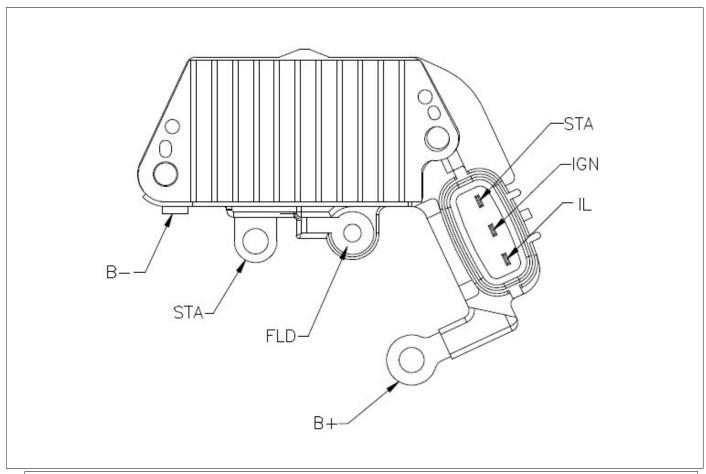
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN450	A	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



* NOTE: On OE Regulator connect a Red test lead to stator (STA)

Page 203 Product Group IN-34 Revision: 3/5/2010 Date : <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

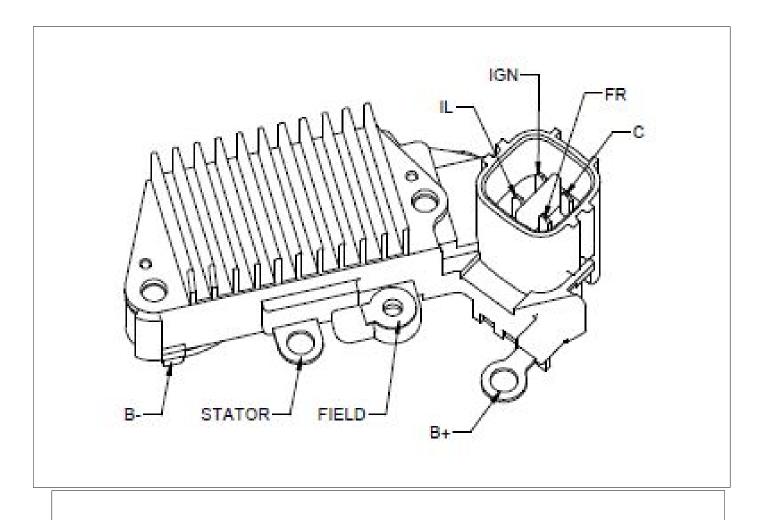
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN445	Α	12	14.5				
T7445	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

* With regulator 'ON', connect "C" terminal to tester, push Computer button on tester and Voltage should drop to 12.5 volts.

To check for over Voltage, push the "Over Voltage" button and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 204 Product Group IN-35 Revision: 4/26/1905 Date : 1/6/2021

NIPPONDENSO

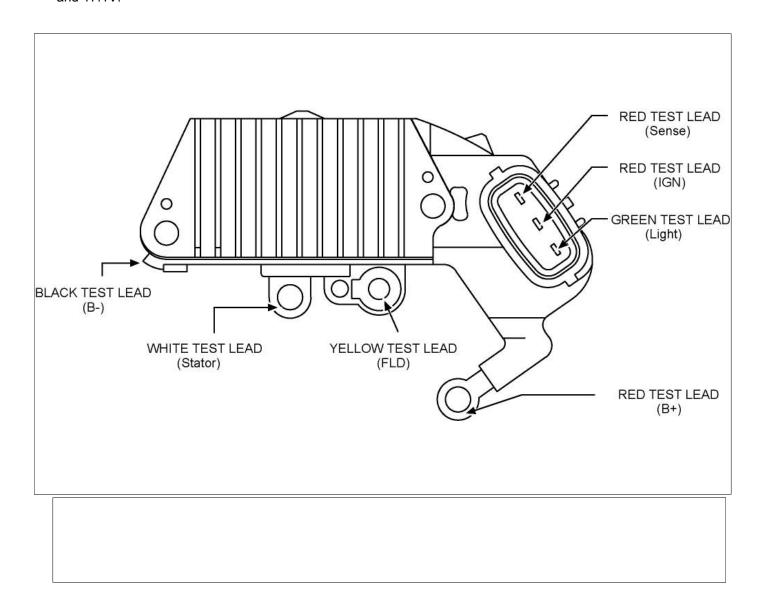
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white lead from stator and voltage should drop to 12.0V and 12V lamp should come on. Field circuit lamp stays on.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 205 Product Group IN-36 Revision: 4/26/1905 Date: <u>1/6/2021</u>

NIPPONDENSO

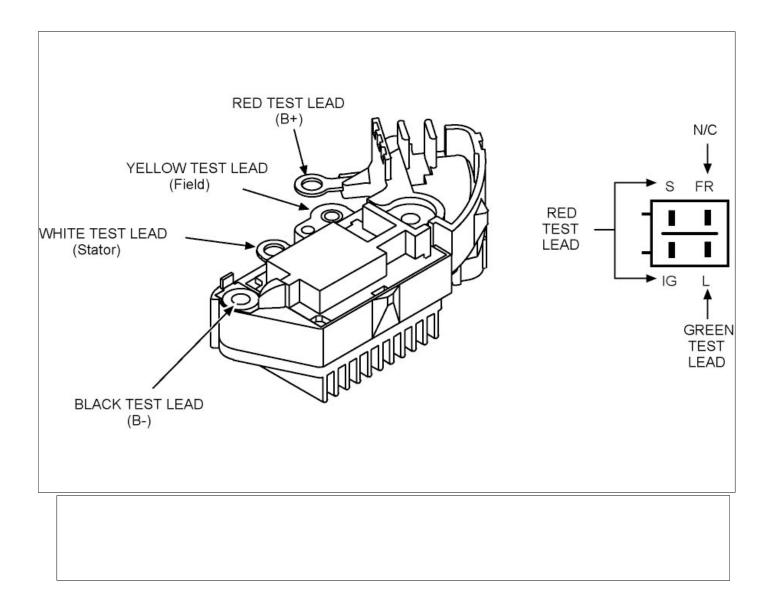
 PART NO.
 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

 IN455
 A
 12
 14.5
 Image: Control of the control of

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S" and lamp turns on and voltage remains the same.



Page 206 Product Group IN-37 Revision: 11/28/1900 Date: <u>1/6/2021</u>

NIPPONDENSO

for

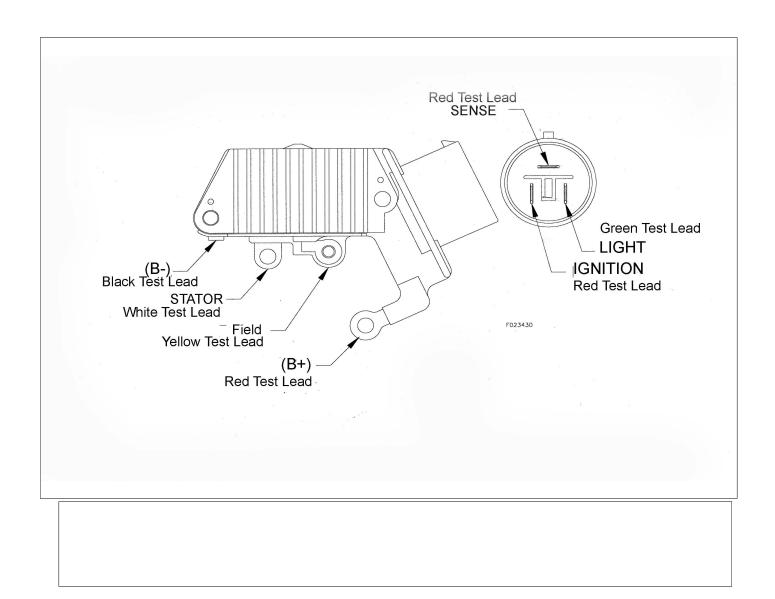
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN277	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect "Stator" terminal, "Light" comes on, voltage goes to 12 Volts and field light stays on. Remove "Light" terminal, Volts will read 12 Volts and field light will go off.



Page 207 Product Group IN-39 Revision: 5/2/1905 Date: 1/6/2021

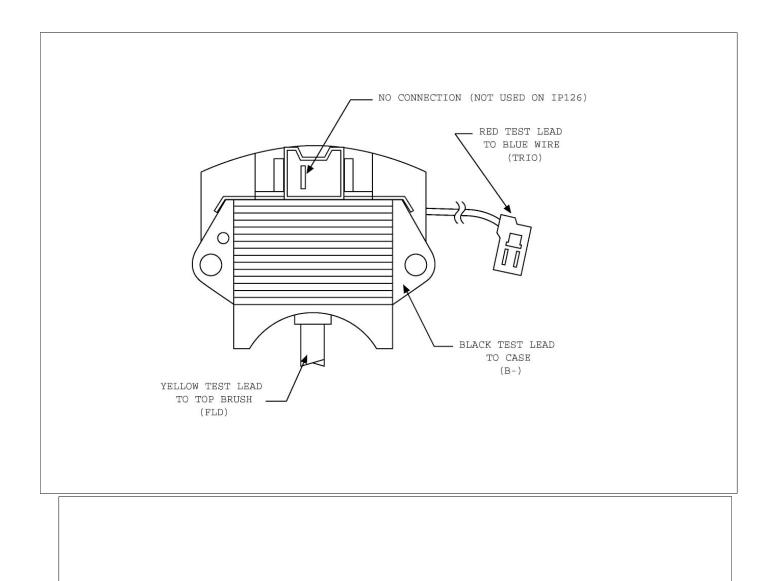
PARIS RHONE

for

				,. •			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP125	Α	12	14.6				
IP126	Α	24	28.4				
IP955	Α	24	28.4				
IP125NV	Α	12	14.6				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

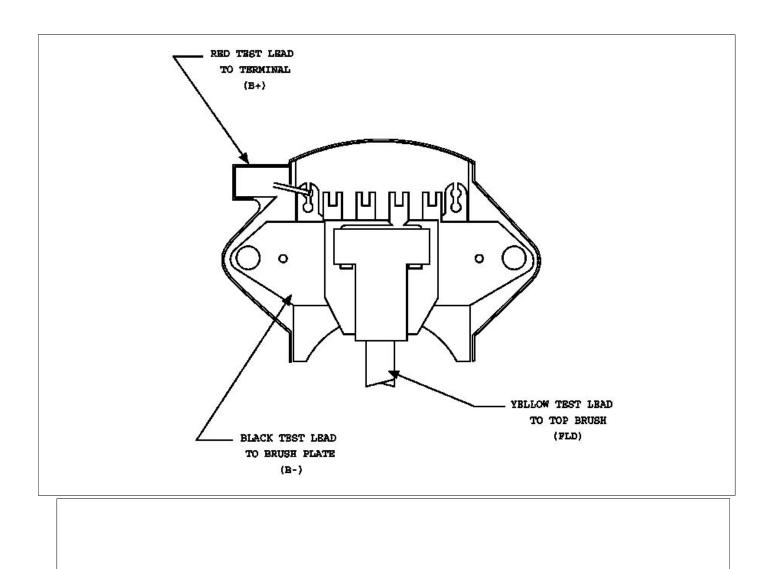


Page 208 Product Group IP-01 Revision: 7/8/1998 Date : <u>1/6/2021</u>

PARIS RHONE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP127	Α	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 209 Product Group IP-02 Revision: Date: <u>1/6/2021</u>

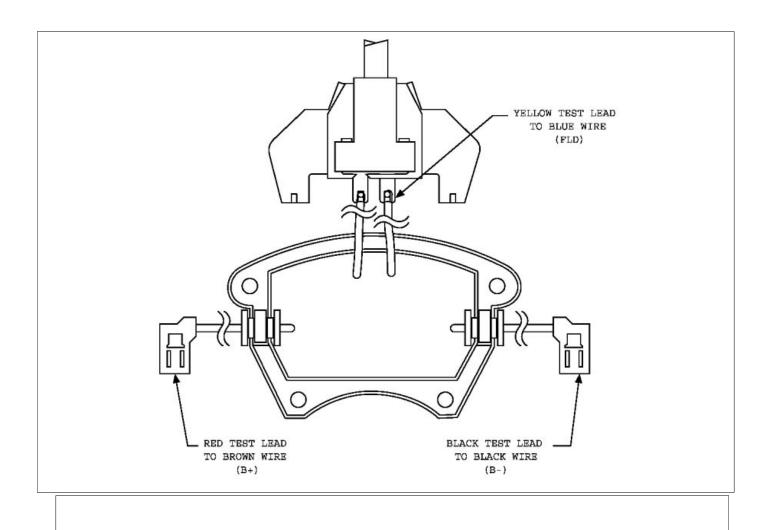
type regulators

PARIS RHONE

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP135	Α	12	14.3				
IP135B	Α	12	14.3				
IP129B	Α	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 210 Product Group IP-03 Revision: Date: <u>1/6/2021</u>

PARIS RHONE

for

				type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IP122	Α	12	14.4						
IP152	Α	12	14.2						
IP1639	Α	12	14.4						
IP1655	Α	12	14.4						

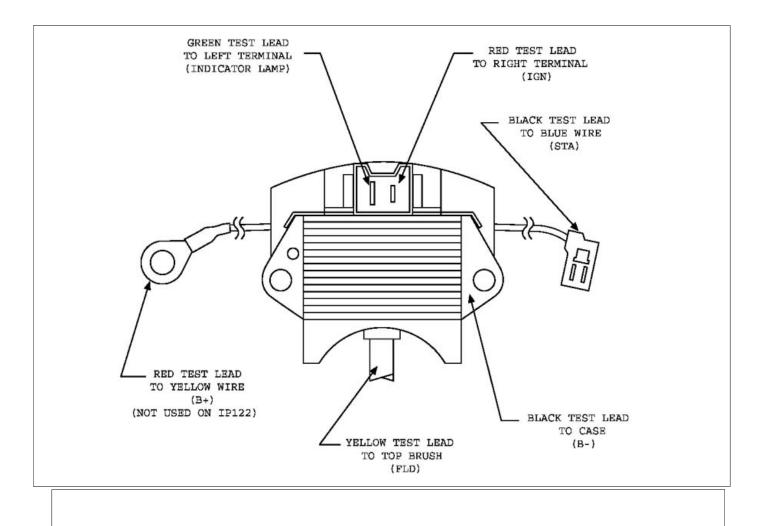
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove black test lead from the blue wire of the regulator . Indicator light should turn on and meter will still indicate the set point voltage.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 211 Product Group IP-04 Revision: 4/26/1905 Date: 1/6/2021

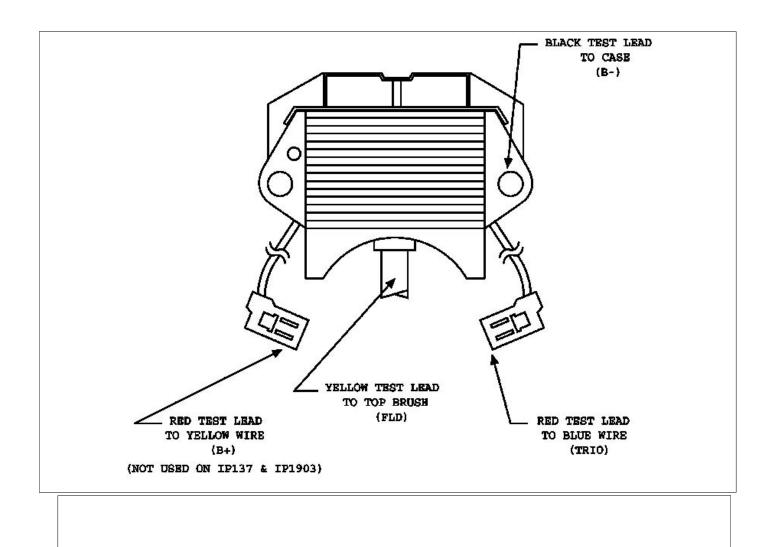
type regulators

PARIS RHONE

for

				5,6000			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP137	Α	12	14.6				
IP1903	Α	12	14.6				
IP2700	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

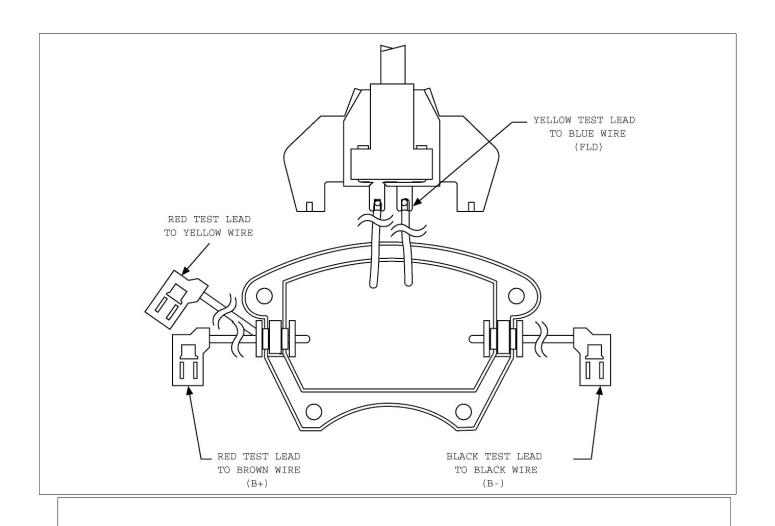


Page 212 Product Group IP-05 Revision: Date : <u>1/6/2021</u>

PARIS RHONE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP735B	Α	12	14.3				
IP729B	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 213 Product Group IP-06 Revision: 10/10/1902 Date : <u>1/6/2021</u>

PARIS RHONE

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
2130	Α	12	14.3				

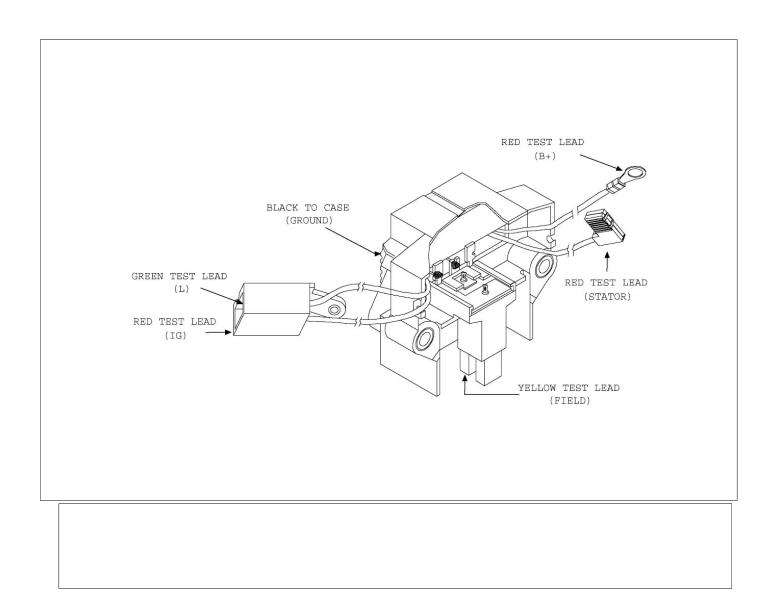
type regulators

TAKT NO.	I LD	VOLI	OLI I OINI	TAKTINO.	I LD	VOLI	OLI I OINI
IP130	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from the stator wire of the regulator. indicator light should turn on and meter will still indicate the set point voltage.

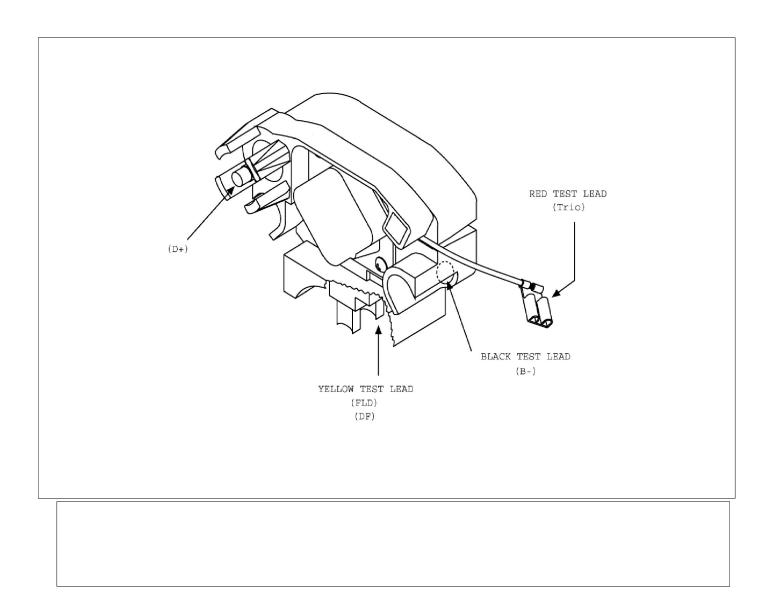


Product Group IP-07 Date: 1/6/2021 Revision: Page 214

TRANSPO TESTER INSTRUCTIONS for PARIS RHONE type regulators

		·					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP1926	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 215 Product Group IP-08 Revision: 3/8/1999 Date : <u>1/6/2021</u>

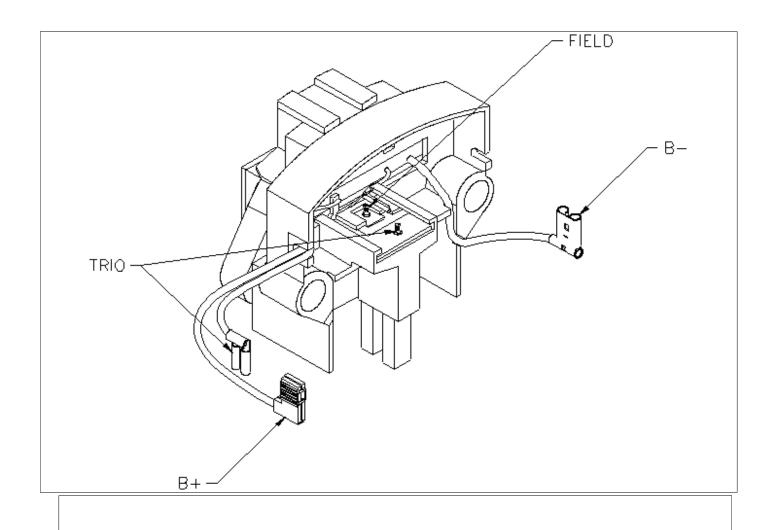
type regulators

PARIS RHONE

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP736	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 216 Product Group IP-09 Revision: 3/10/1999 Date : <u>1/6/2021</u>

PARIS RHONE

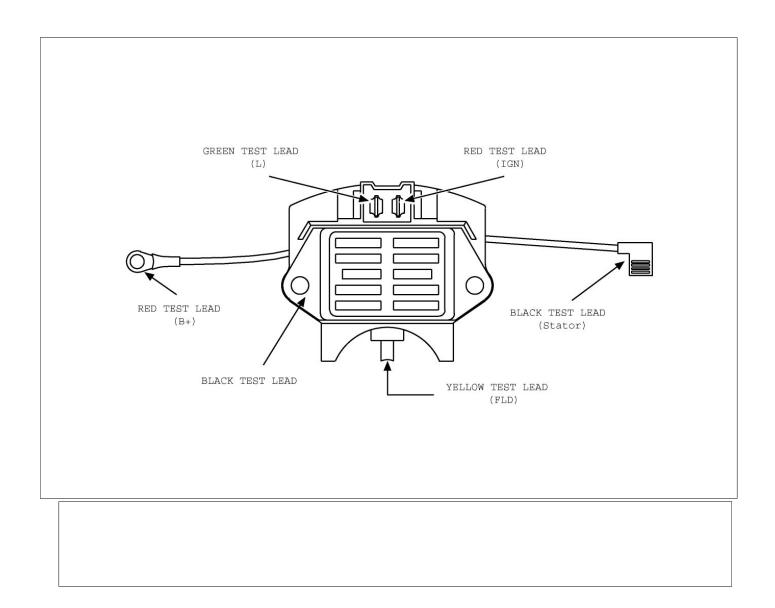
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP123	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove black test lead from blue wire. Indicator light should turn on and voltage will remain the same.



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PARIS RHONE

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP1652	A	12	14.4				

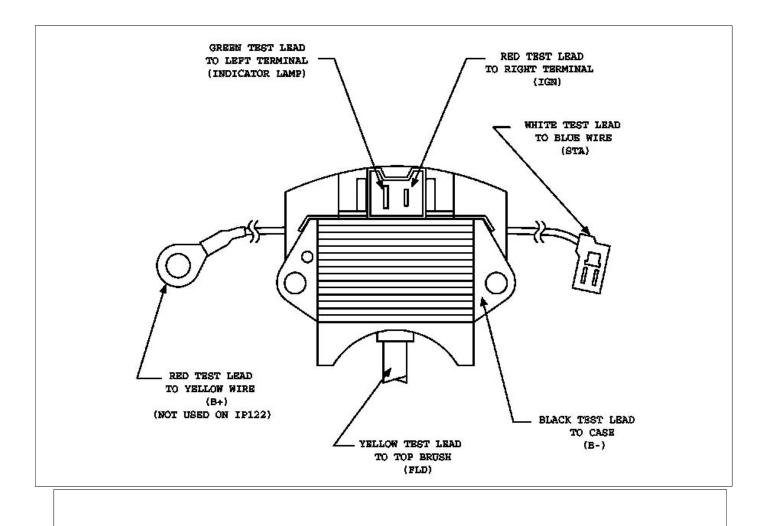
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from the blue wire of the regulator. Indicator light should turn on and meter will read approximately 12 volts.

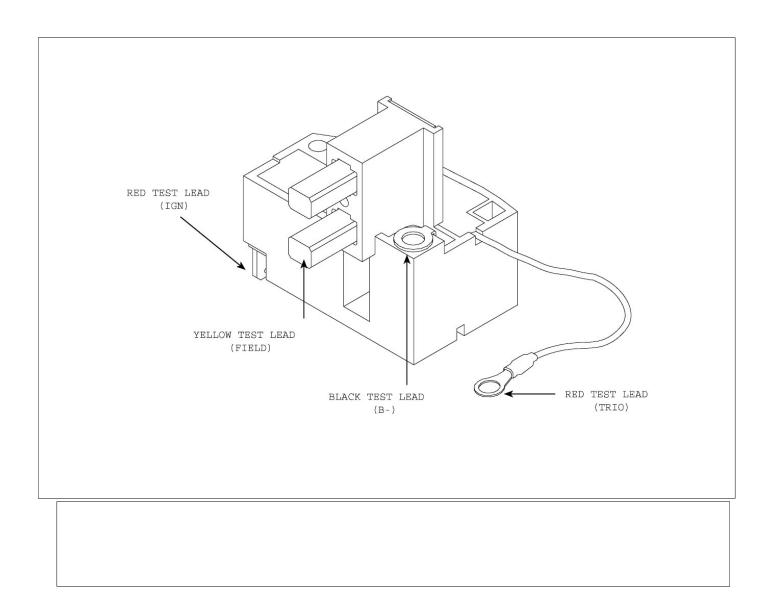
To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 218 Product Group IP-11 Revision: 4/26/1905 Date: 1/6/2021

		for	LADA	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IR674	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



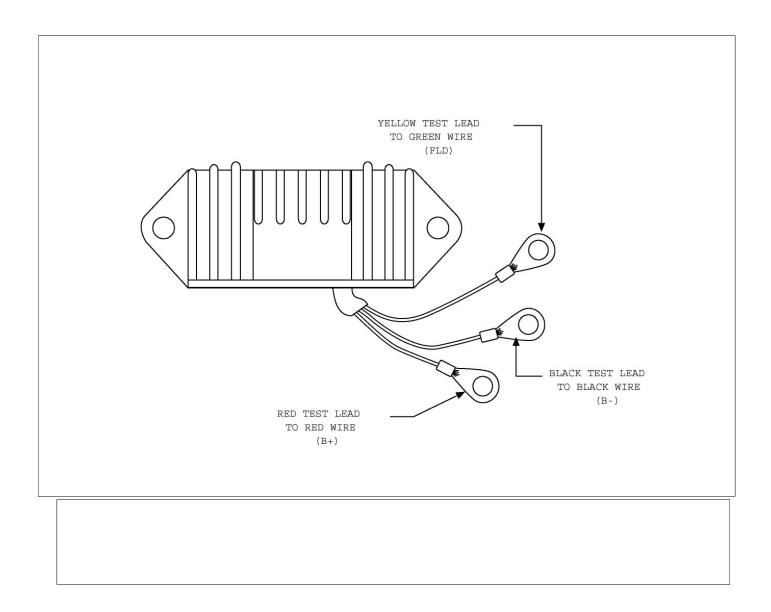
Page 219 Product Group IR-01 Revision: Date : <u>1/6/2021</u>

SEV MARCHAL

PART NO. **FLD VOLT SET POINT** PART NO. FLD **VOLT SET POINT IS219** В 12 14.2 **IS219A** В 12 14.2

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



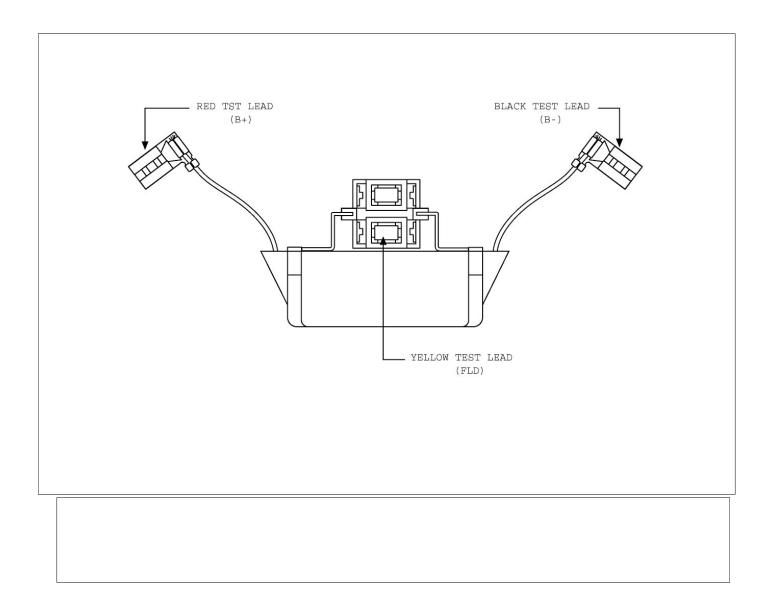
Page 220 Product Group IS-01 Revision: Date : <u>1/6/2021</u>

for <u>SEV MARCHAL</u> type regulators

VOLT SET POINT PART NO. FLD VOLT SET POINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IS222	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 221 Product Group IS-02 Revision: 10/27/1900 Date : <u>1/6/2021</u>

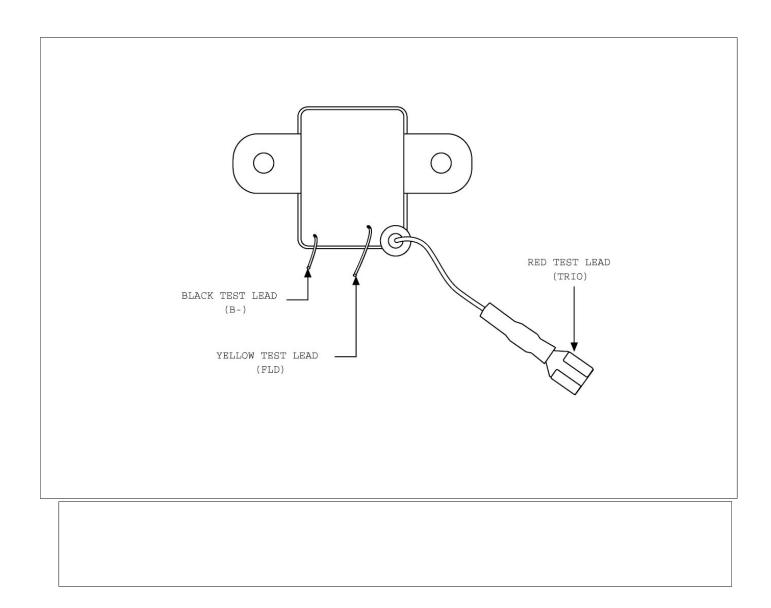
SEV MARCHAL

PART NO FI D VOI T SET POINT PART NO FLD VOI T SET POINT

type regulators

TAKT NO.	I LD	VOLI	OLI I OINI	TARTINO.	I LD	VOLI	OLI I OINI
IS301	В	12	14.2				

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:

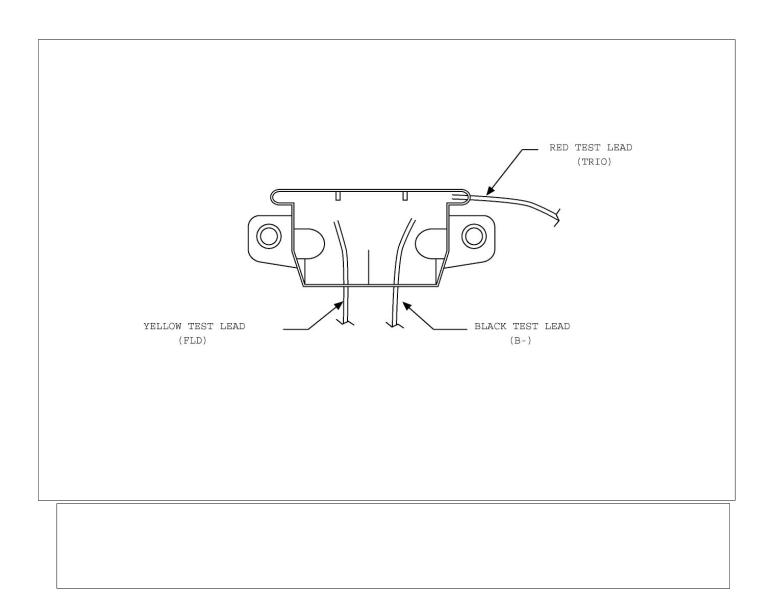


Date: 1/6/2021 Product Group IS-03 Page 222 Revision:

for ____ SEV MARCHAL ____ type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IS223	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

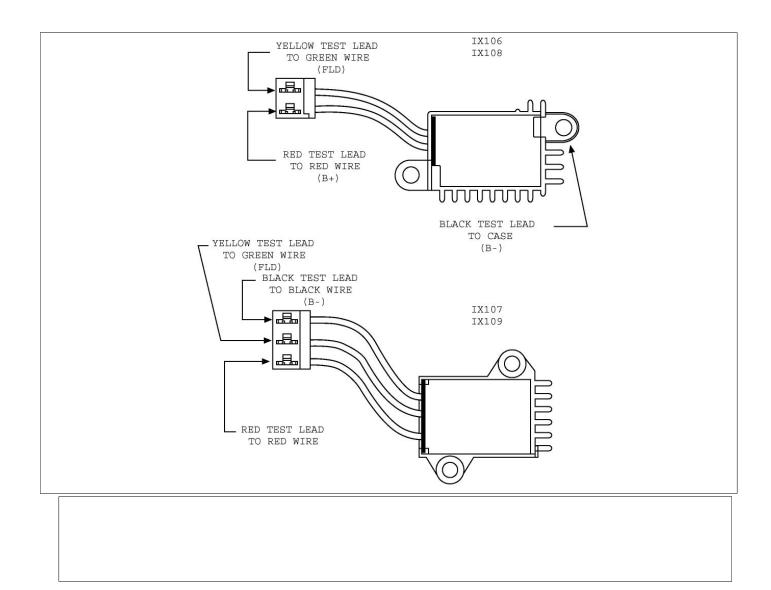


Page 223 Product Group IS-04 Revision: 10/27/1900 Date : <u>1/6/2021</u>

for MAGNETI-MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX106	Α	12	14.2				
IX107	Α	12	14.2				
IX108	Α	24	28.0				
IX109	Α	24	28.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

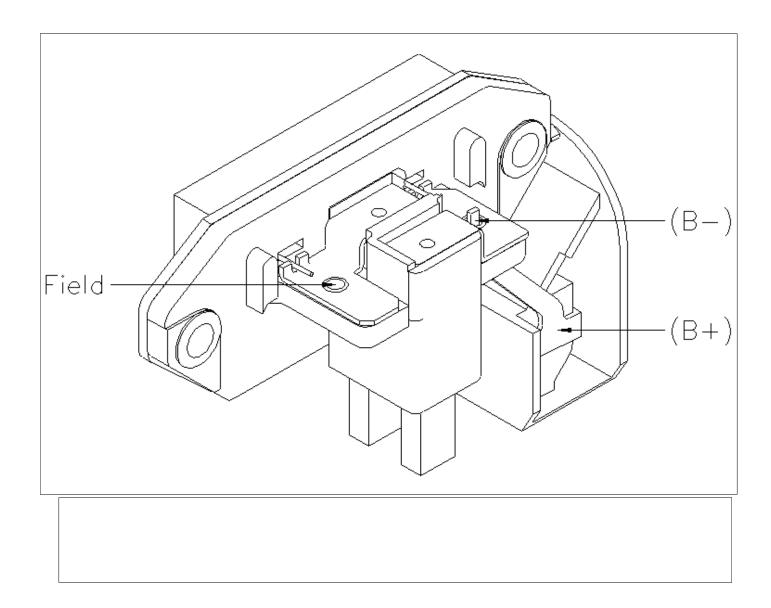


Page 224 Product Group IX-01 Revision: 11/22/1900 Date : <u>1/6/2021</u>

for MAGNETI-MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX110	Α	12	14.5				
IX111	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

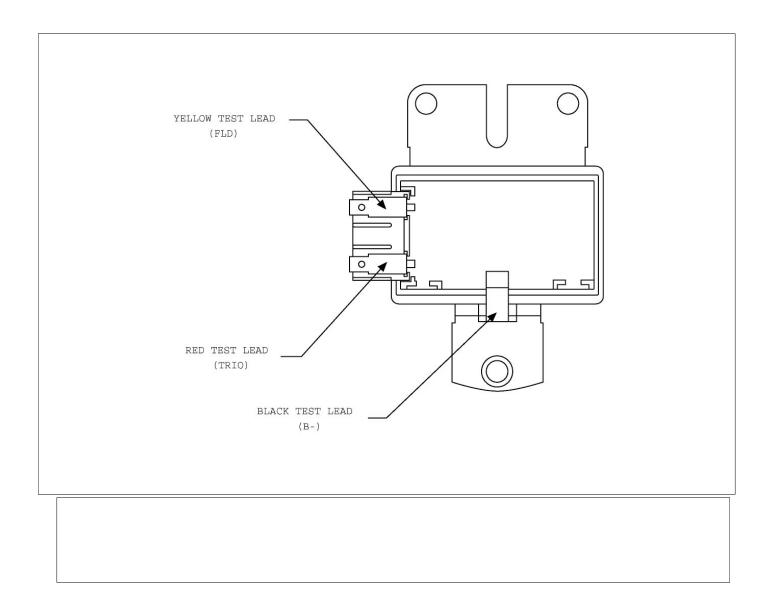


Page 225 Product Group IX-02 Revision: Date: <u>1/6/2021</u>

for MAGNETI-MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX4004	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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for MAGNETI-MARELLI type regulators

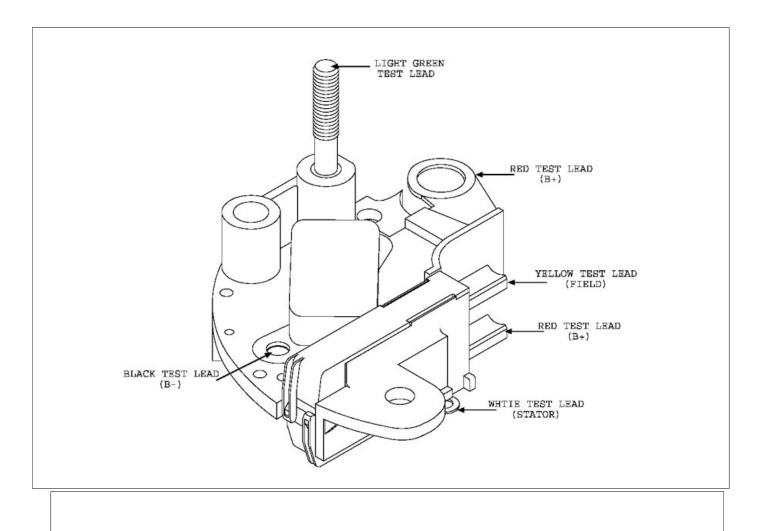
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX121	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from stator terminal. Indicator light will come on. Field light will stay on and meter will read approximately 12 volts.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



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for MAGNETI-MARELLI type regulators

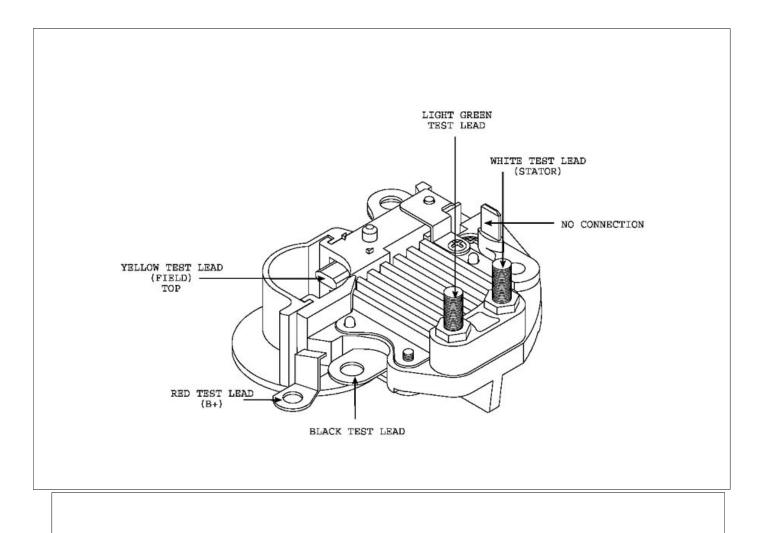
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX127	Α	12	14.2				
IX128	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from stator terminal. Indicator light will come on. Field light will stay on and meter will read approximately 12 volts.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



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for MAGNETI-MARELLI type regulators

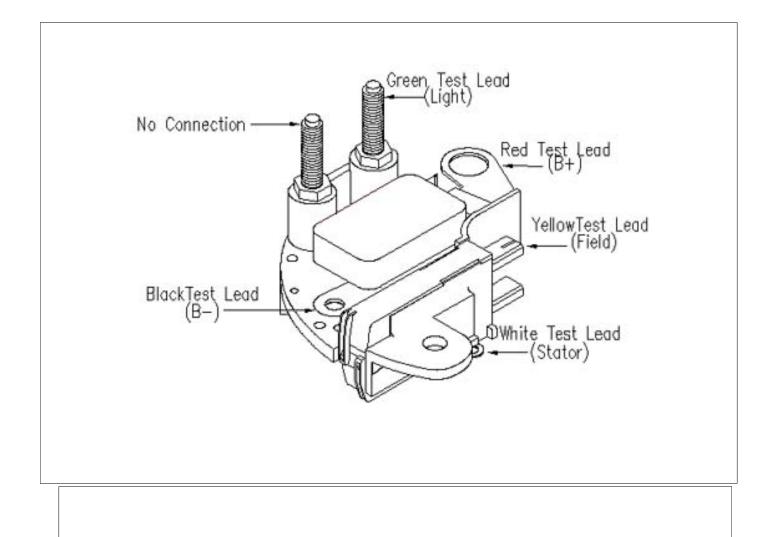
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX123	A	12	14.1				
IX123S-B64	A	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from stator terminal. Indicator light will come on. Field light will stay on and meter will read approximately 12 volts.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



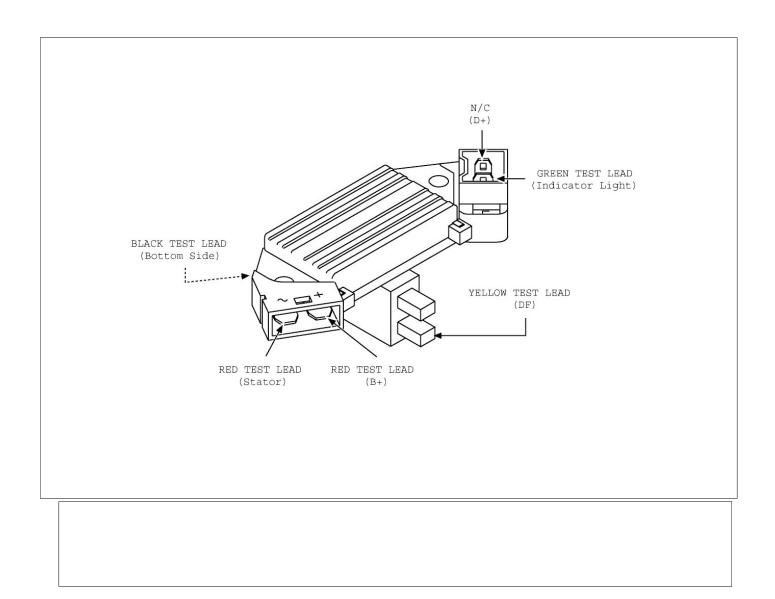
Page 229 Product Group IX-06 Revision: 2/14/1906 Date: 1/6/2021

for MAGNETI-MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX118	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

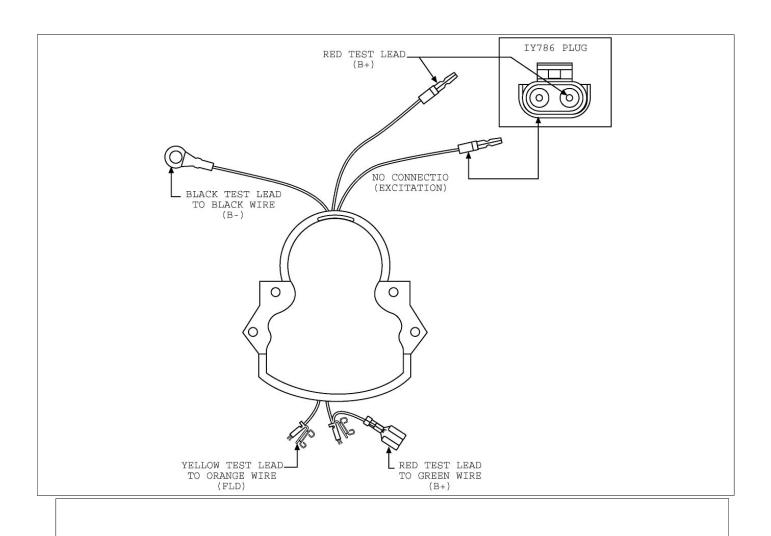
Remove red lead from stator and voltage will remain the same. Field lamp will flicker and 12V lamp come on.



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		for	MANDO	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY785	Α	12	14.6				
IY786	Α	12	14.6				

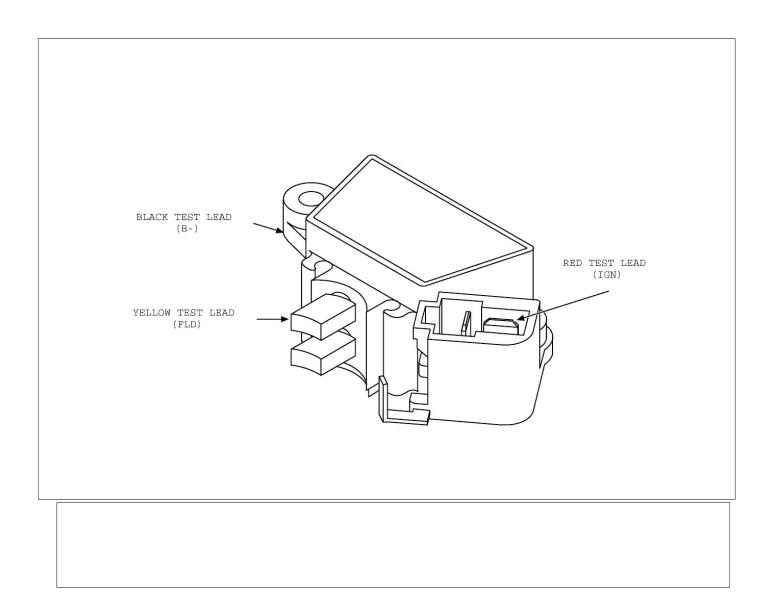
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	MANDO	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY510	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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MANDO

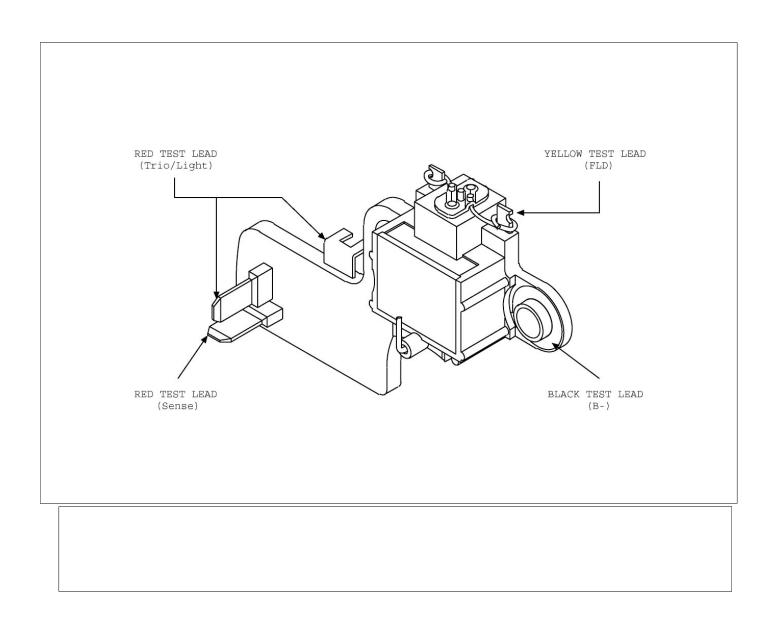
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY422	A	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect sense (Red) lead, voltage should go to 15.5V.

for

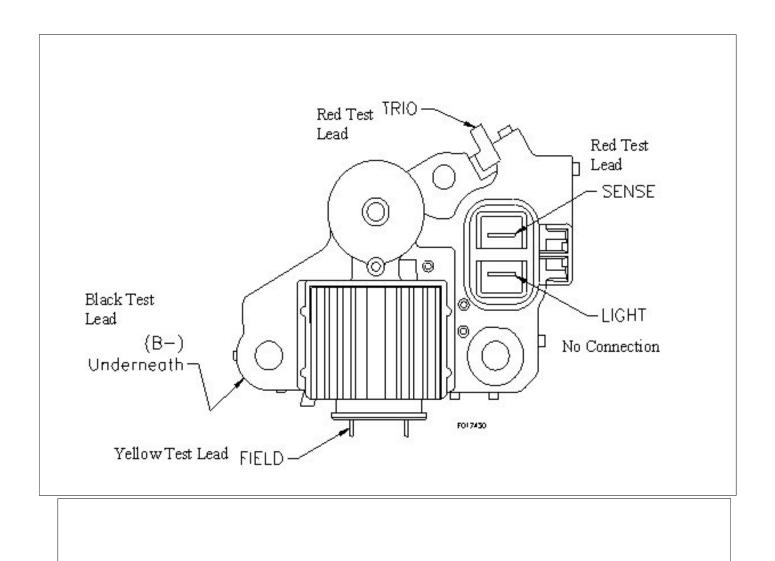


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		for	MANDO	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY058	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

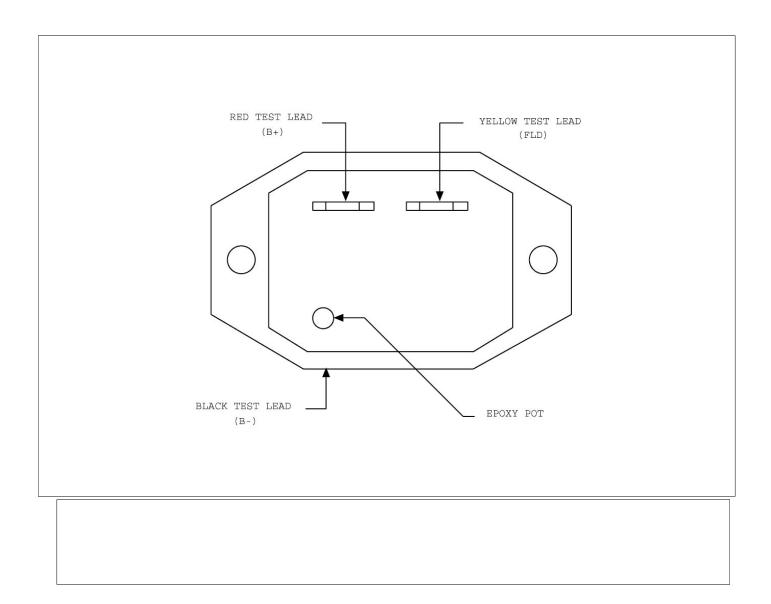
Remove red test lead from "S" terminal. Voltage will go up to approximately 15.5V.



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		for	NIKKO	type regulator	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IZ226	Α	24	27.5				
IZ227	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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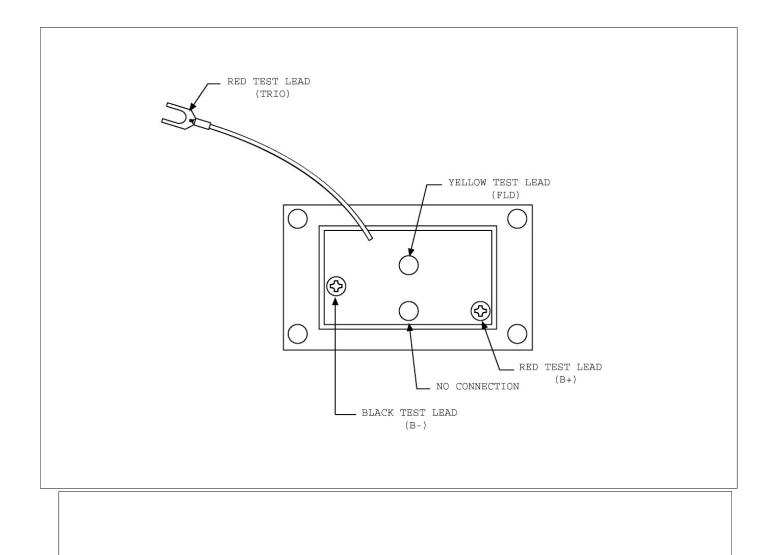
for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L79000	Α	12	14.2	L79000S	A	12	14.2
L79000HD	Α	12	14.2	L79000X	Α	12	14.2
L79000HDP	Α	12	14.2	L95019	Α	12	14.2
L79000LH	Α	12	14.2	L96852	Α	24	27.5

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from regulator wire marked "TRIO". Filed lamp should turn off and the meter will indicate low voltage.



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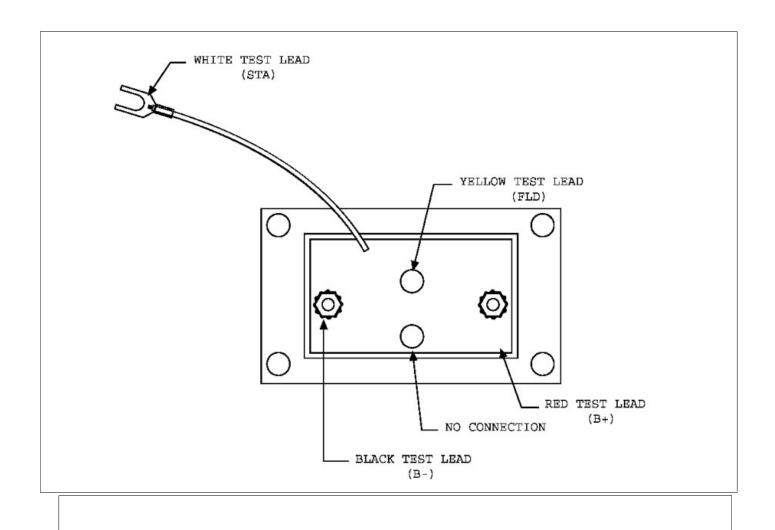
for ____LEECE NEVILLE ____ type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L79350S	A	24	27.5				
L97050S	Α	32	37.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from regulator wire marked "TRIO". Filed lamp should turn off and the meter will indicate low voltage.



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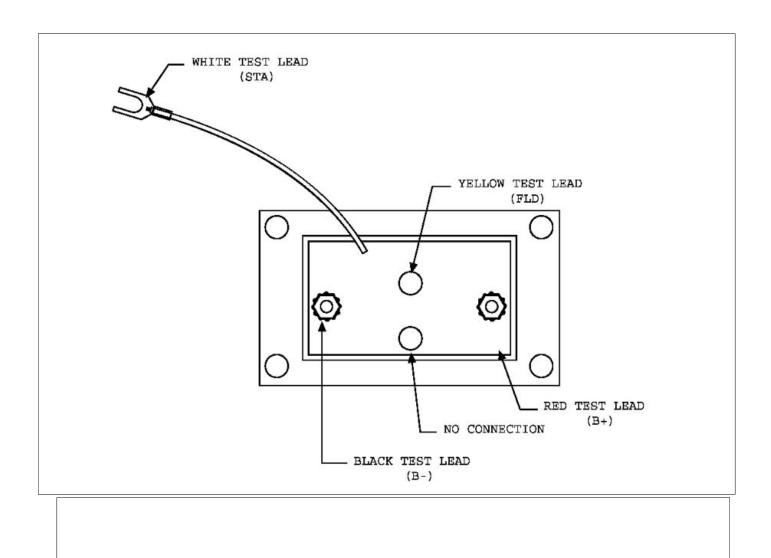
for <u>LEECE NEVILLE</u> type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L79000AC	Α	12	14.2				
L96345AC	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from regulator wire marked "Stator". Filed lamp should turn off and the meter will indicate low voltage.

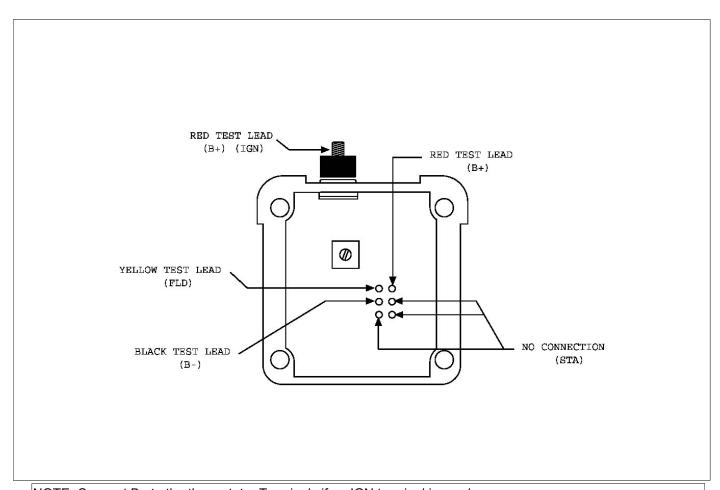


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TRANSPO TESTER INSTRUCTIONS for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L95300S	Α	24	28.0				
L99500S	А	12	14.2				
L99825S	А	24	27.5				
1 998505	Δ	32	37.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



NOTE: Connect B+ to the three stator Terminals if no IGN terminal is used

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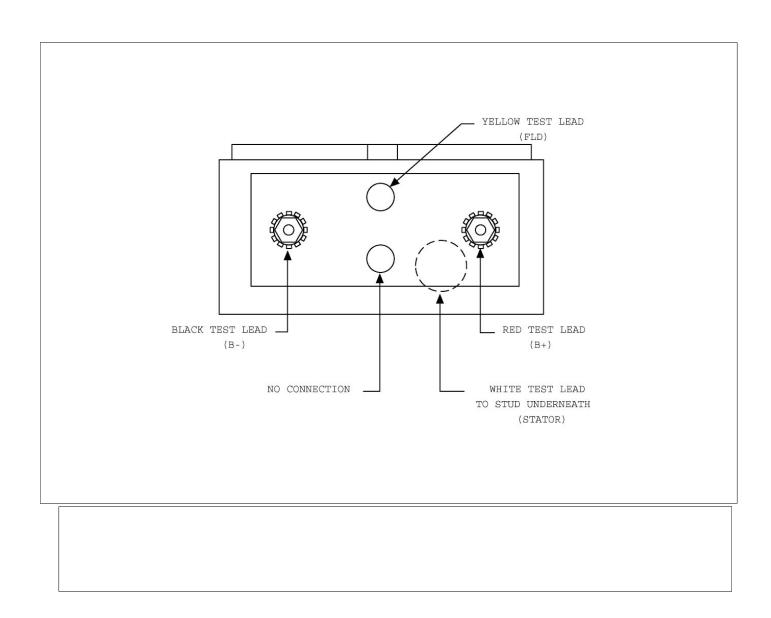
for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L77973AC	Α	12	14.2				
L97300AC	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from the regulator's stud marked "Stator". Field lamp should turn off and the meter will indicate low voltage.



Page 240 Product Group L-05 Revision: Date : 1/6/2021

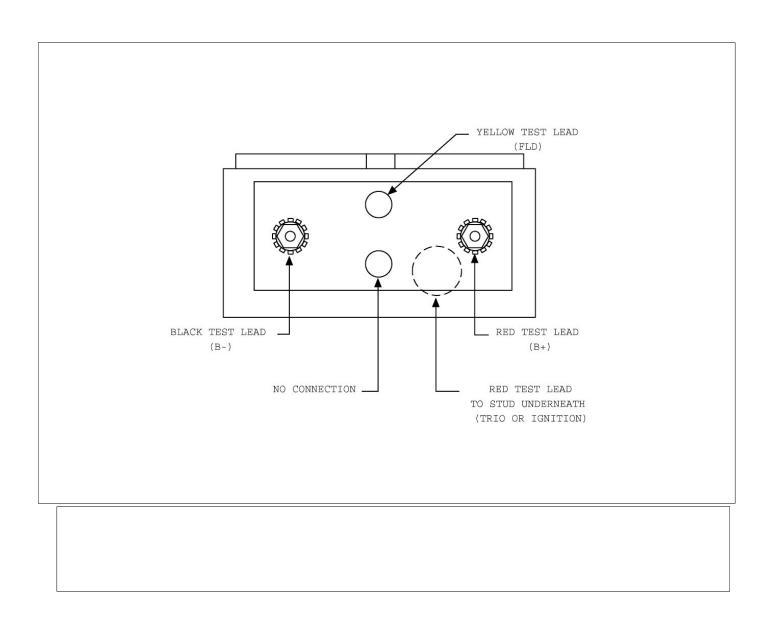
for ___LEECE NEVILLE ___ type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L77973S	Α	12	14.2				
L78855S	Α	24	27.5				
L78935S	Α	32	37.5				
L97300S	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from regulator's stud marked "TRIO" or "IGN". Field lamp should turn off and the meter will indicate low voltage.

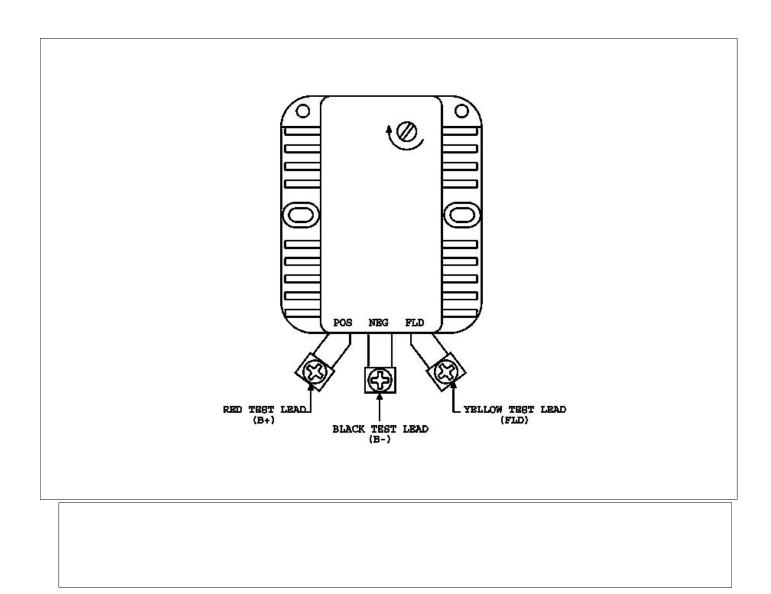


Page 241 Product Group L-06 Revision: Date: <u>1/6/2021</u>

for ____LEECE NEVILLE ____ type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L5022	A	12	14.2	L5042HD	A	24	27.5
L5042	Α	24	27.5				
L5062	Α	32	37.5				
L5078	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

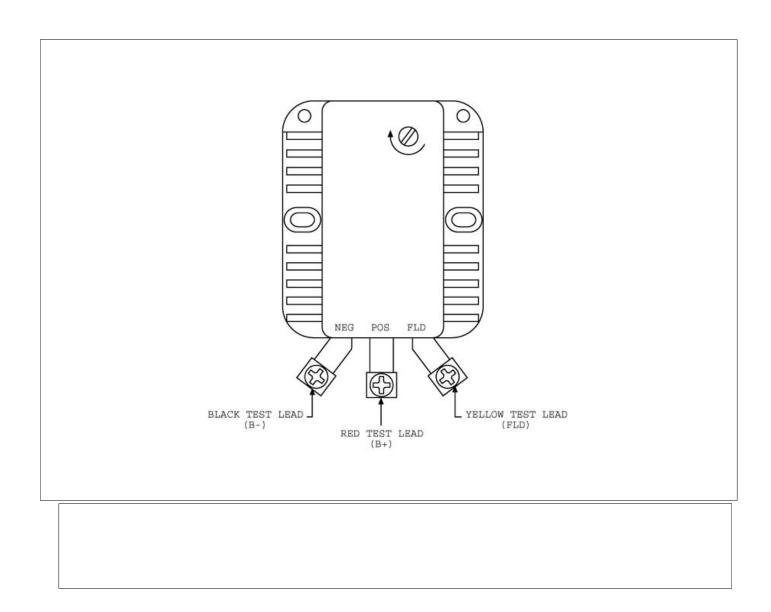


Page 242 Product Group L-07 Revision: Date : <u>1/6/2021</u>

for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L5016	В	12	14.2				
L5028	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

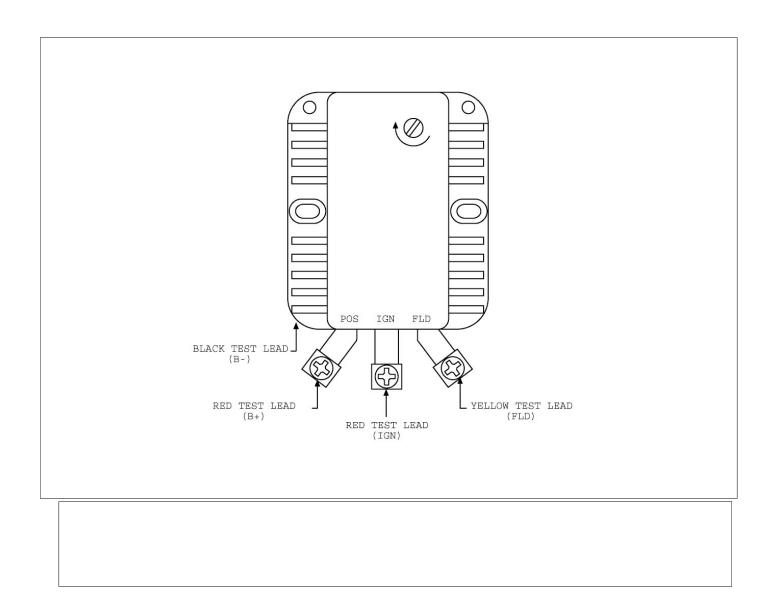


Page 243 Product Group L-08 Revision: Date: <u>1/6/2021</u>

for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L5003	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



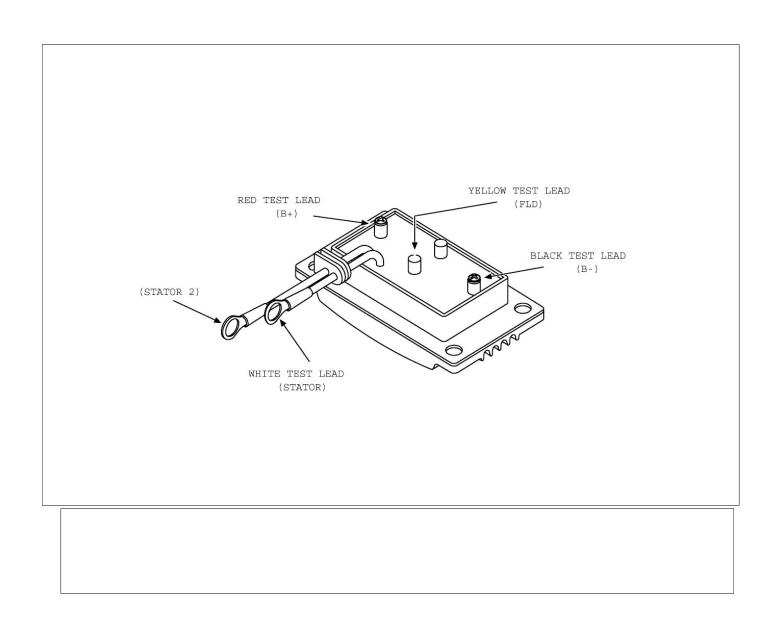
Page 244 Product Group L-10 Revision: Date : <u>1/6/2021</u>

for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L99920	Α	12	14.2				
L99920HD	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove white test lead from "Stator" terminal and regulator turns off.



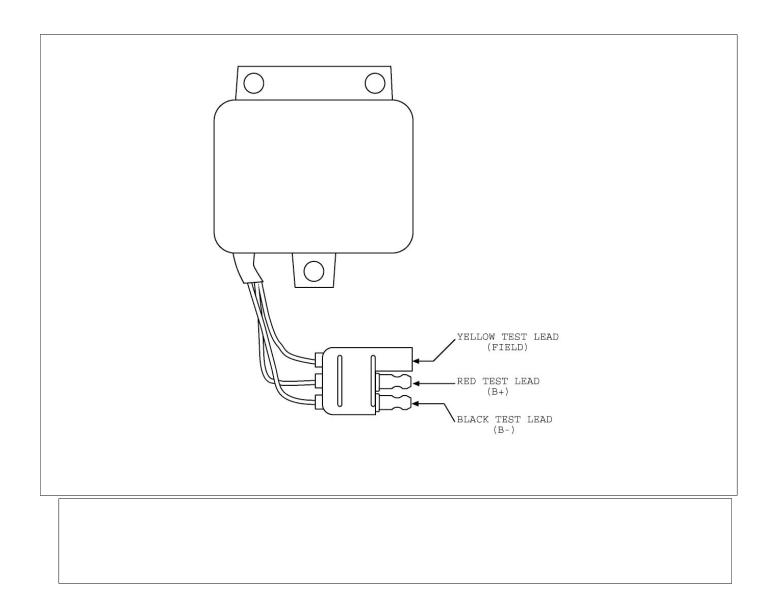
Page 245 Product Group L-11 Revision: 11/22/1900 Date : <u>1/6/2021</u>

type regulators

MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-156A	В	12	14.2	M5-177A	В	24	28.0
M5-157A	В	24	29.2	M5-191A	В	12	14.2
M5-161A	В	24	28.4	M5-211A	В	12	14.2
M5-163A	В	24	28.0	M5-232A	В	12	14.4

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



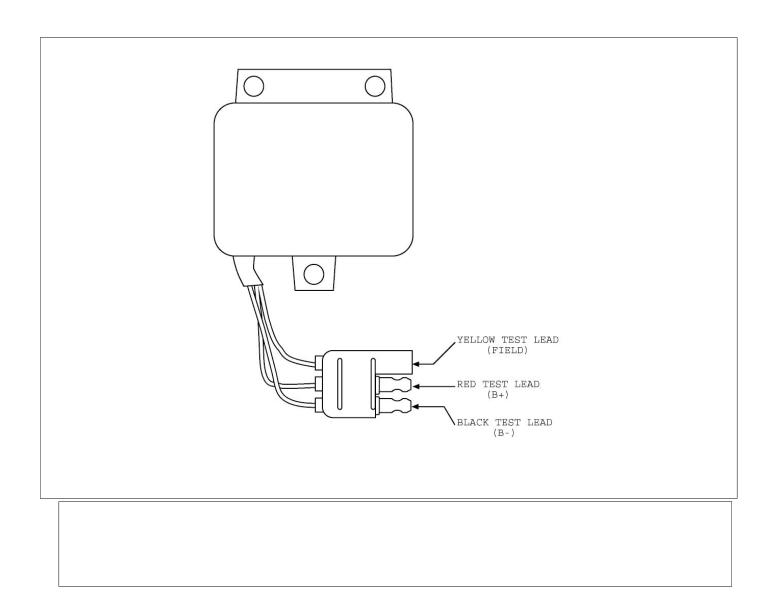
Page 246 Product Group M5-02 Revision: Date: <u>1/6/2021</u>

type regulators

MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-239A	В	12	13.8				
M5-274A	В	36	38.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

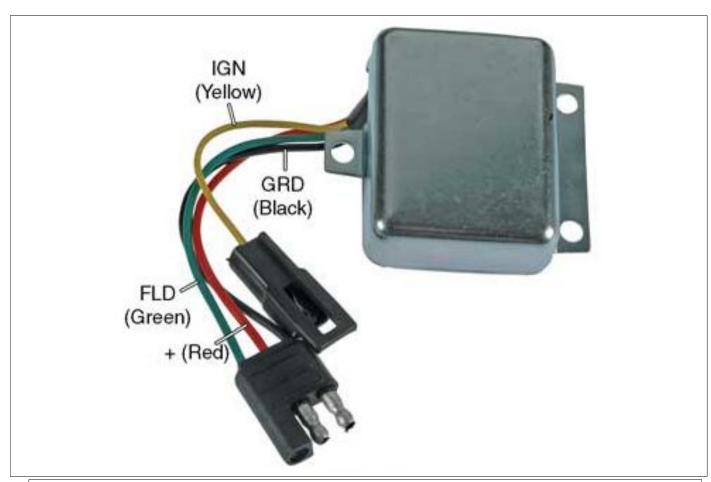


Page 247 Product Group M5-03 Revision: Date: <u>1/6/2021</u>

MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-130A	В	12	15.2				
M5-130	В	12	15.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



NOTE: * Regulators with One (1) yellow wire: M5-30A, M5-42A, M5-130A, M5-135, M5-141A ** Regulators with Two (2) yellow wires: M5-28A, M5-50A

Page 248 Product Group M5-04 Revision: Date: <u>1/6/2021</u>

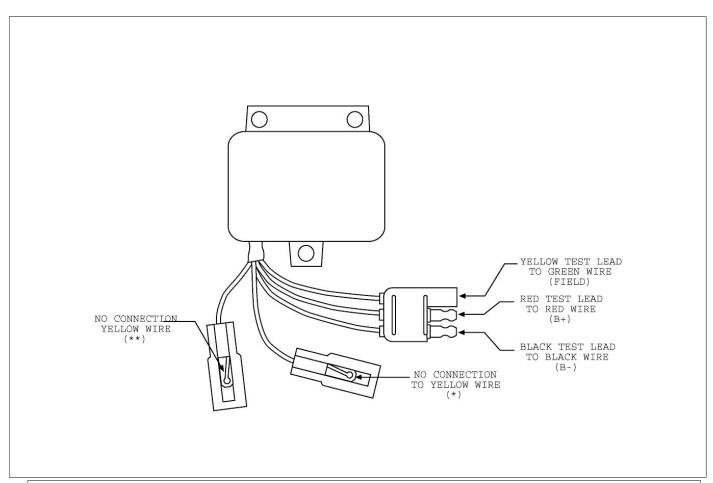
type regulators

MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-143A	В	12	14.2	M5-222A	В	12	15.3
M5-150A	В	12	14.2	M5-185A	В	24	29.2
M5-206A	В	12	15.3				
M5-218A	В	12	15.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

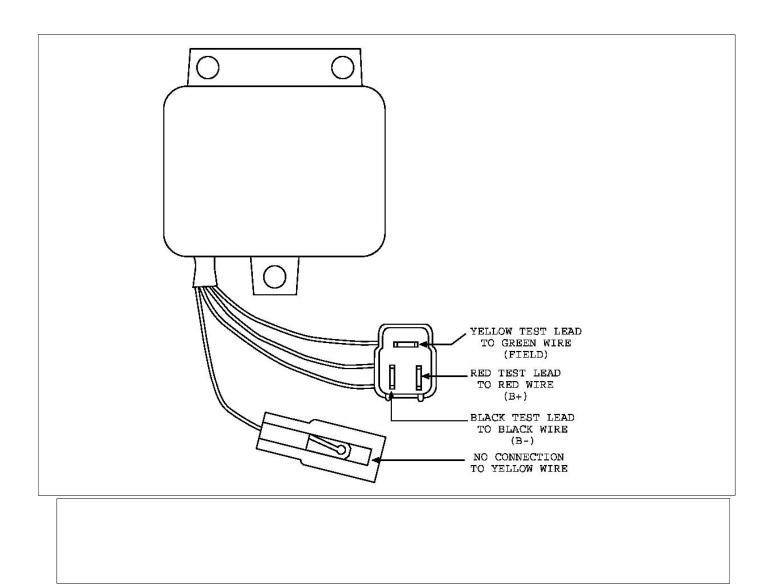


NOTE: * Regulators with One (1) Yellow wire: M5-143A, M5-150A, M5-206A, M5-218A, M5-222A, M5-185A

Page 249 Product Group M5-05 Revision: Date : <u>1/6/2021</u>

		for M	IOTOROLA	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-137A	В	12	15.2				
M5-142A	В	12	14.2				
M5-184A	В	24	29.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



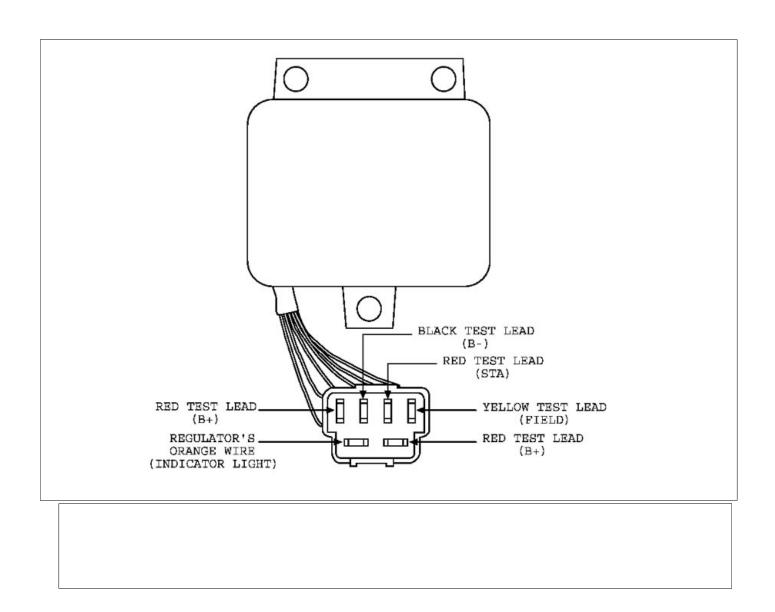
Page 250 Product Group M5-07 Revision: Date : <u>1/6/2021</u>

		for	MOTOROLA	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-113A	В	12	14.2				
M5-122A	В	12	14.4				
M5-216A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from yellow wire of the regulator. Indicator light should turn on and the meter will indicate the set point voltage.



Page 251 Product Group M5-08 Revision: Date : <u>1/6/2021</u>

type regulators

MOTOROLA

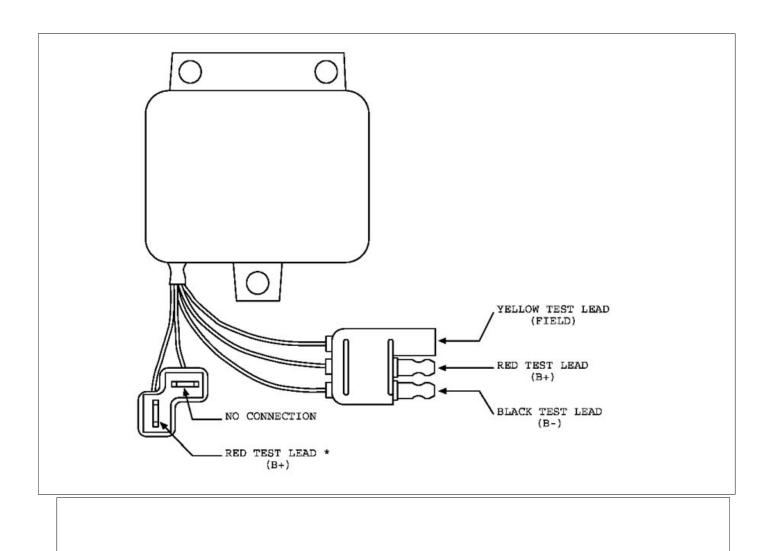
for

		_					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-204A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked with "*". Field lamp should still blink and the meter will indicate approximately 15.3 v.

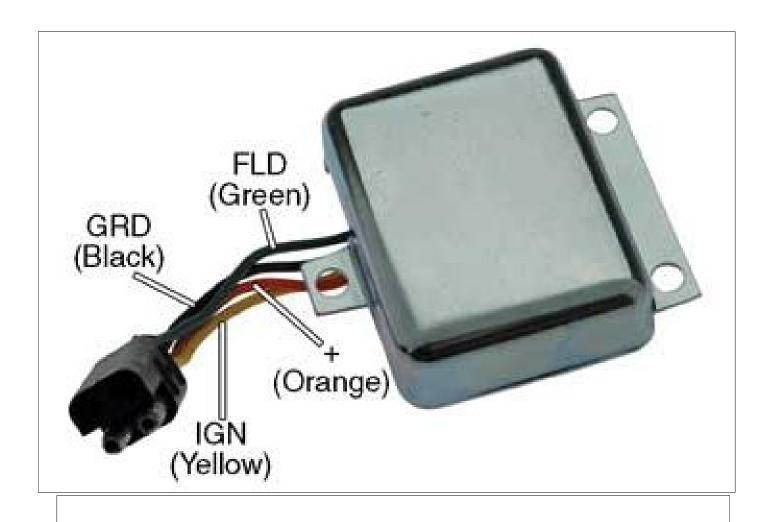


Page 252 Product Group M5-09 Revision: Date : <u>1/6/2021</u>

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-228A	В	12	14.1	M5-223A	В	12	13.8
M5-138A	В	12	15.2				
M5-174A	В	12	14.1				
M5-205A	В	12	14.1				

MOTOROLA type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

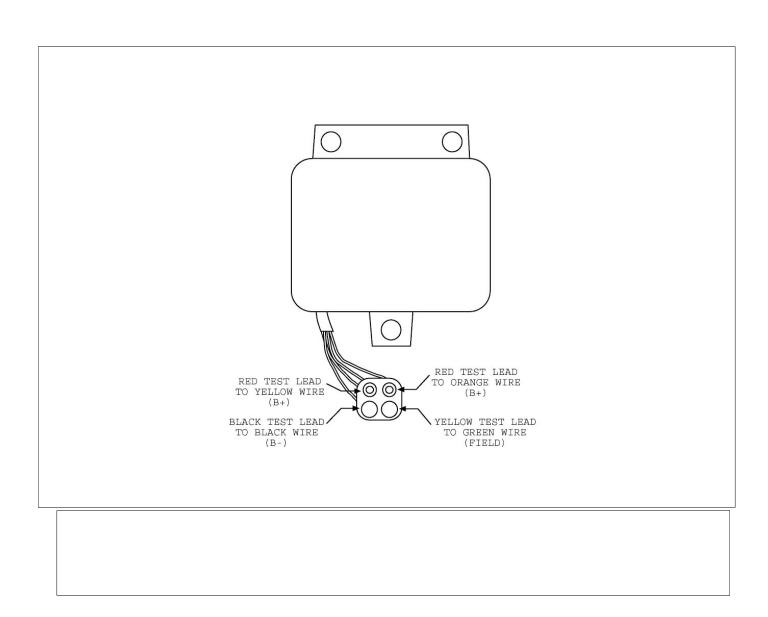


Page 253 Product Group M5-10 Revision: Date: <u>1/6/2021</u>

MOTOROLA type regulators

							
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-230A	В	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

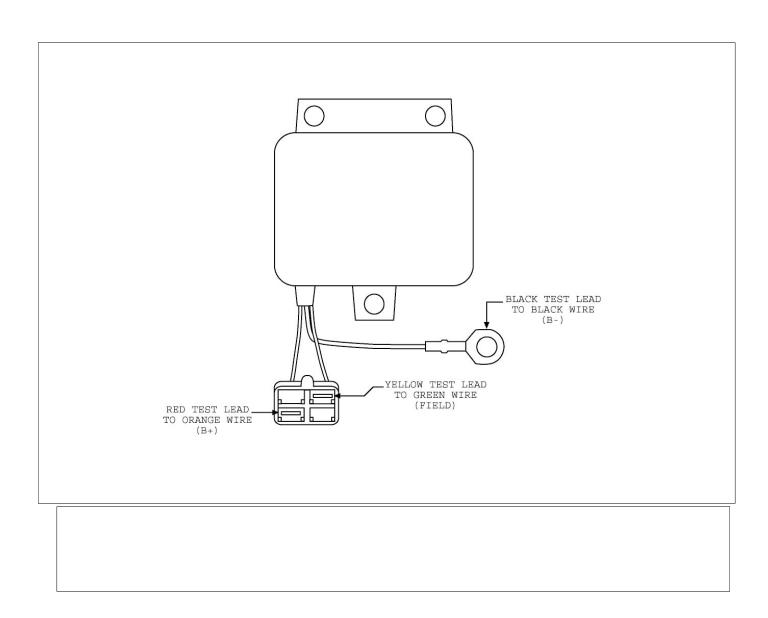


Page 254 Product Group M5-11 Revision: Date : <u>1/6/2021</u>

MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-196A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

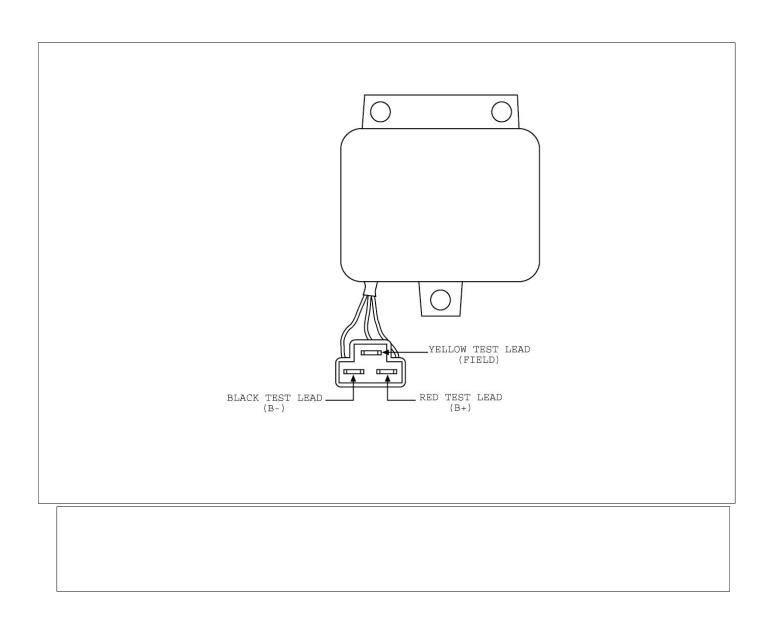


Page 255 Product Group M5-12 Revision: Date: <u>1/6/2021</u>

MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-159A	В	24	29.2				
M5-227A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 256 Product Group M5-13 Revision: Date: <u>1/6/2021</u>

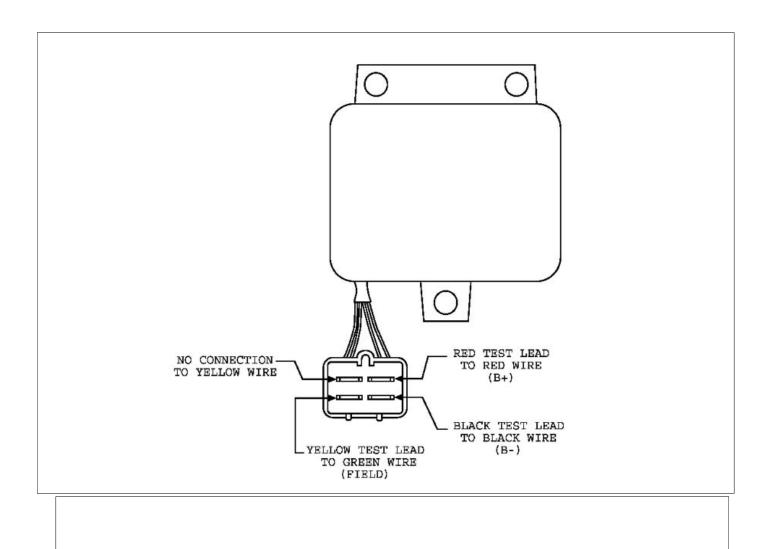
type regulators

MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-146	В	12	15.2				
M5-146A	В	12	15.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 257 Product Group M5-16 Revision: Date: <u>1/6/2021</u>

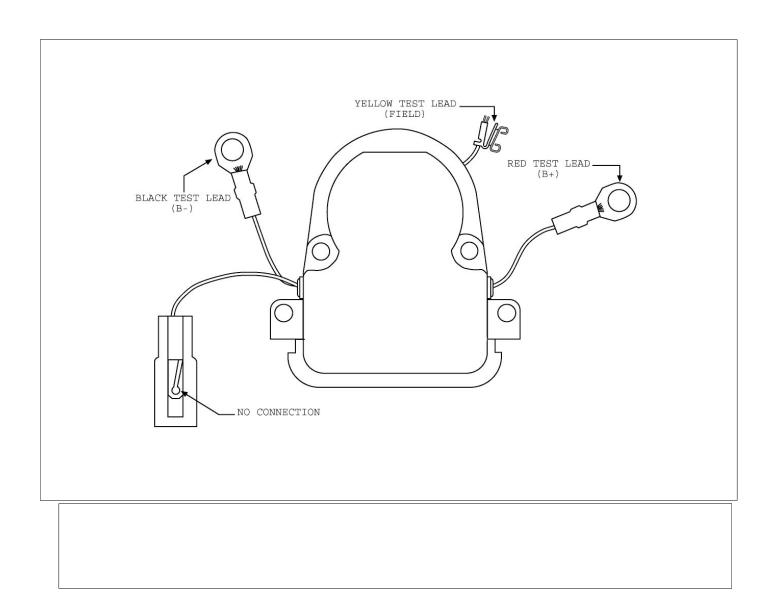
type regulators

MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-197A	В	12	15.0				
M5-207A	В	12	14.2				
M5-250A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 258 Product Group M5-19 Revision: Date: <u>1/6/2021</u>

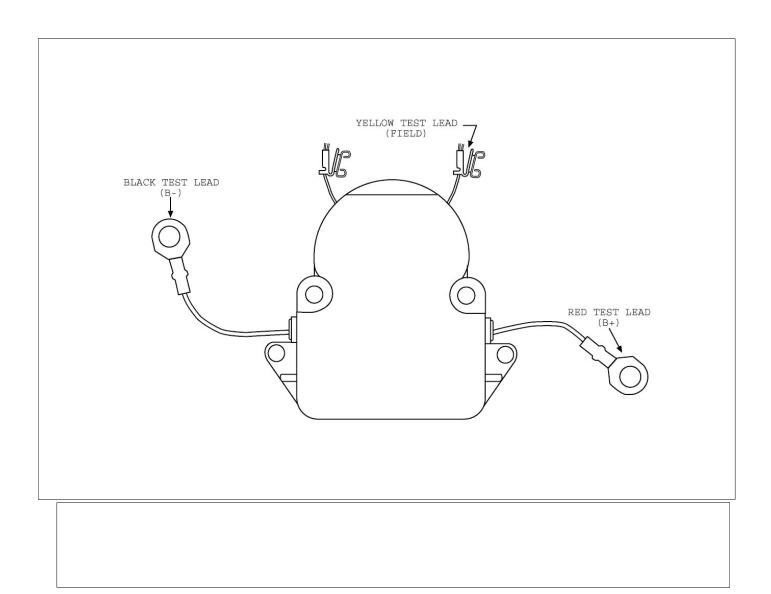
MOTOROLA

for

				5,6000			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-198A	В	12	15.0				
M5-200A	В	12	14.2				
M5-244A	В	12	13.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 259 Product Group M5-20 Revision: Date: <u>1/6/2021</u>

MOTOROLA

for

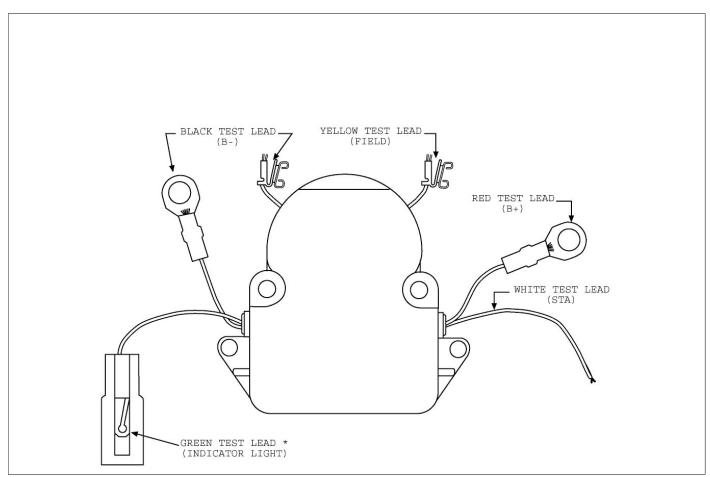
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-200SA6	В	6	7.8	M5-200SA32	В	32	37.5
M5-200SA8	В	8	9.5				
M5-200SA12	В	12	14.2				
M5-200SA24	В	24	27.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from the yellow wire of the regulator marked "Stator". Field lamp should turn off and the meter will indicate low voltage. On regulators with indicator light, light should also turn on when stator is removed from the regulator.



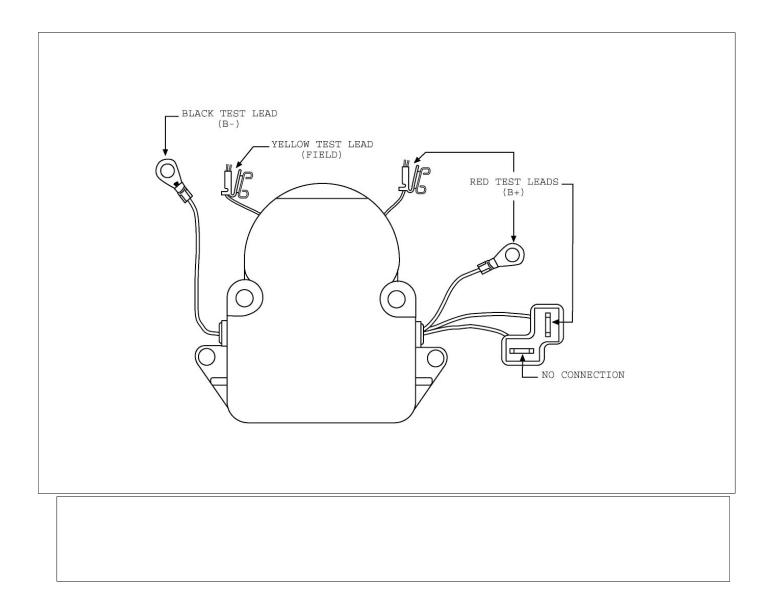
* NOTE: Not used on 24V & 32V Regulators

Page 260 Product Group M5-21 Revision: Date: 1/6/2021

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-226A	Α	12	14.4				

MOTOROLA type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 261 Product Group M5-22 Revision: Date: <u>1/6/2021</u>

type regulators

MOTOROLA

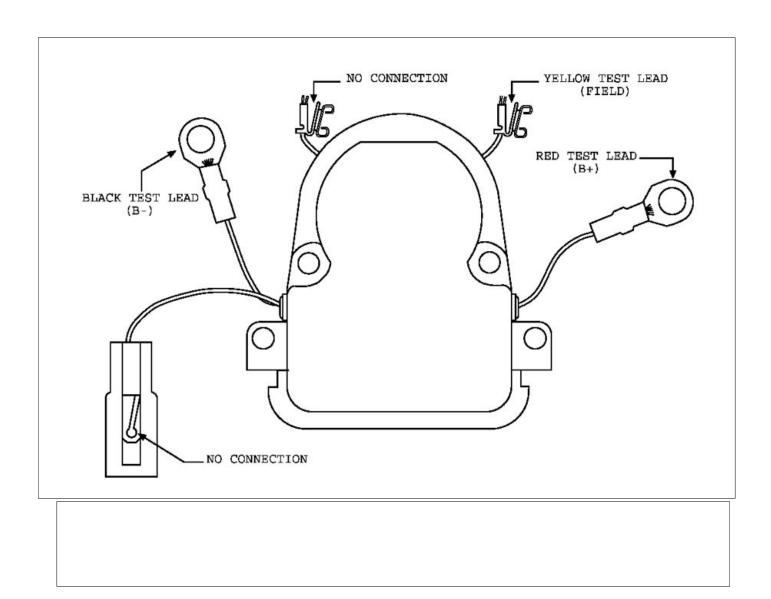
for

				5,65339			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-208A	В	24	29.2				
M5-209A	В	24	28.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Measure between regulator's yellow and red wire using an ohm meter (without a connection to the voltage regulator tester). Approximately 150 Ohms must be measured.



Page 262 Product Group M5-23 Revision: Date: <u>1/6/2021</u>

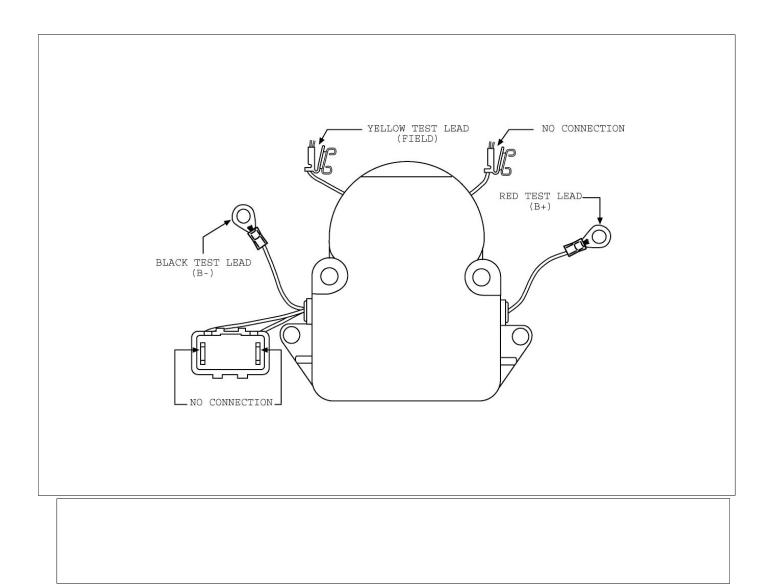
MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-225A	Α	12	14.4				
M5-225	Α	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

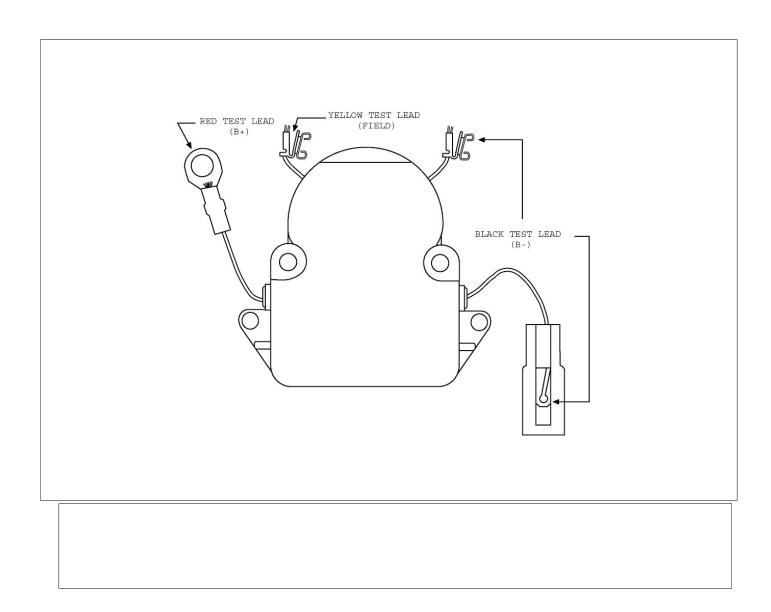


Page 263 Product Group M5-24 Revision: 7/29/1997 Date : <u>1/6/2021</u>

MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-217A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

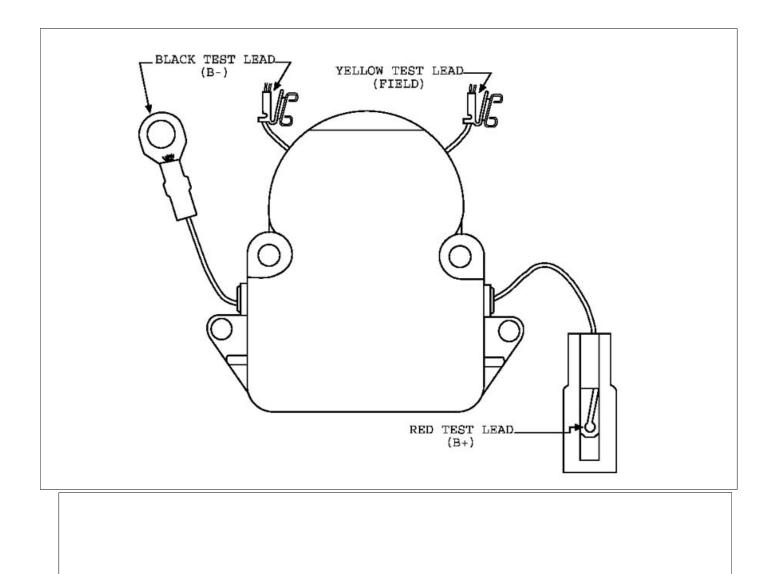


Page 264 Product Group M5-25 Revision: Date: <u>1/6/2021</u>

MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-203A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 265 Product Group M5-26 Revision: Date: 1/6/2021

MOTOROLA

for

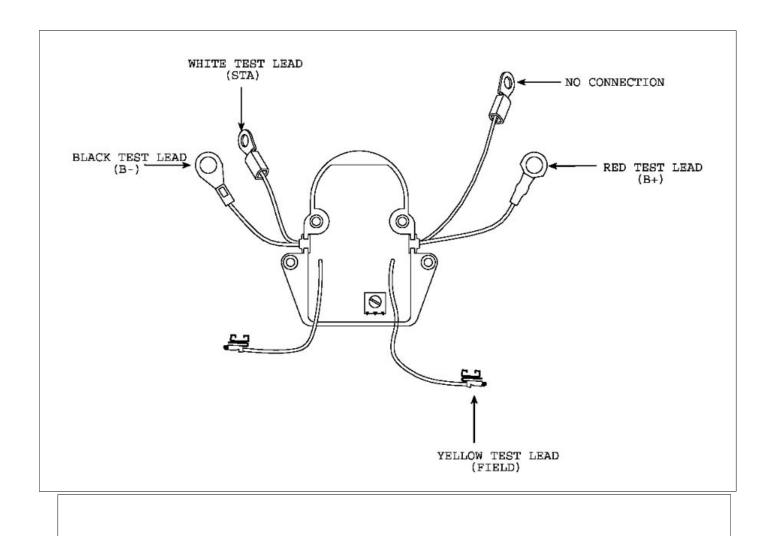
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-233A	В	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from yellow wire of the regulator marked as "Stator". Field lamp should turn off and the meter will indicate low voltage.



Page 266 Product Group M5-27 Revision: 9/12/1994 Date : <u>1/6/2021</u>

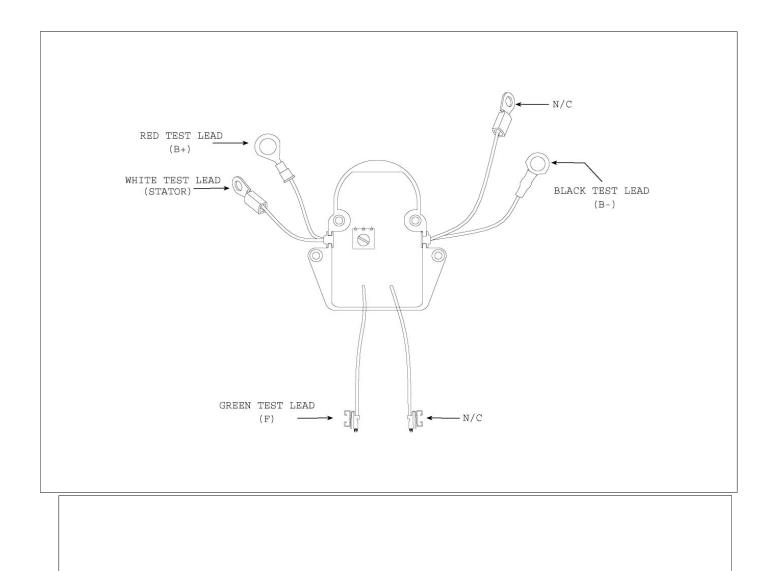
MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-224A	В	12	14.4				
M5-245A	В	12	13.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from yellow wire of the regulator marked as "Stator". Field lamp should turn off and the meter will indicate low voltage.



Page 267 Product Group M5-28 Revision: 9/12/1997 Date : <u>1/6/2021</u>

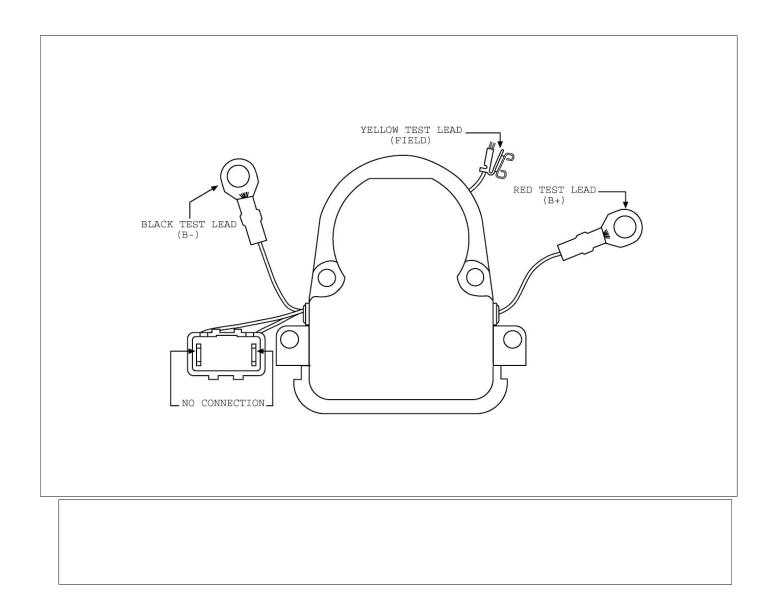
type regulators

MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-181A	В	12	15.0				
M5-192A	В	12	14.2				
M5-201A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 268 Product Group M5-29 Revision: Date: <u>1/6/2021</u>

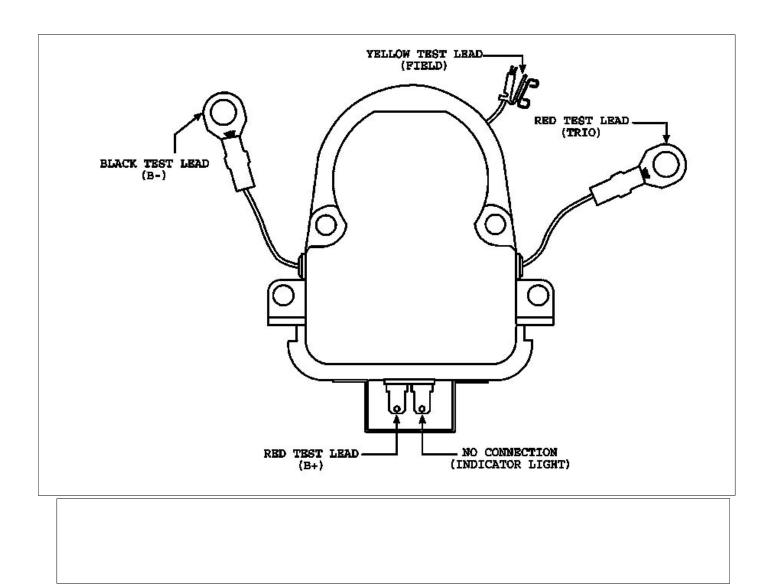
type regulators

MOTOROLA

for

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-172A	В	12	14.2				
M5-169A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 269 Product Group M5-30 Revision: Date: <u>1/6/2021</u>

MOTOROLA

for

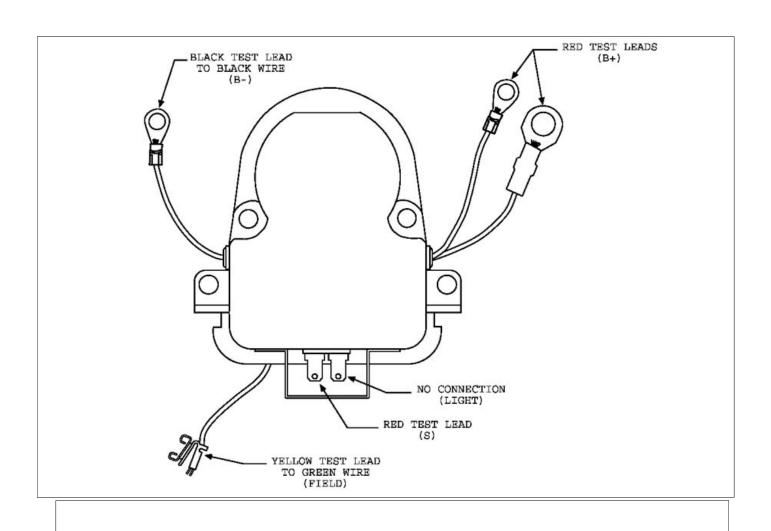
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-149A	В	24	28.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". field lamp should still blink and the meter will indicate approximately 29.5v.



Page 270 Product Group M5-31 Revision: Date : <u>1/6/2021</u>

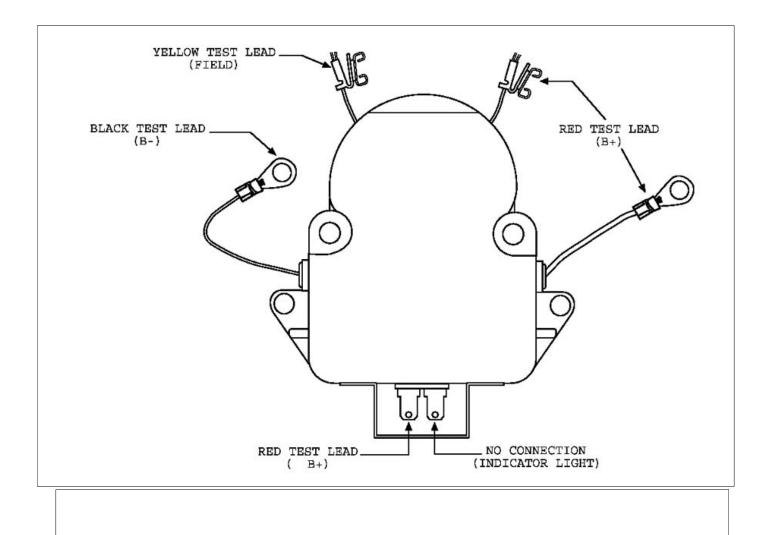
type regulators

MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-215A	A	12	14.4				

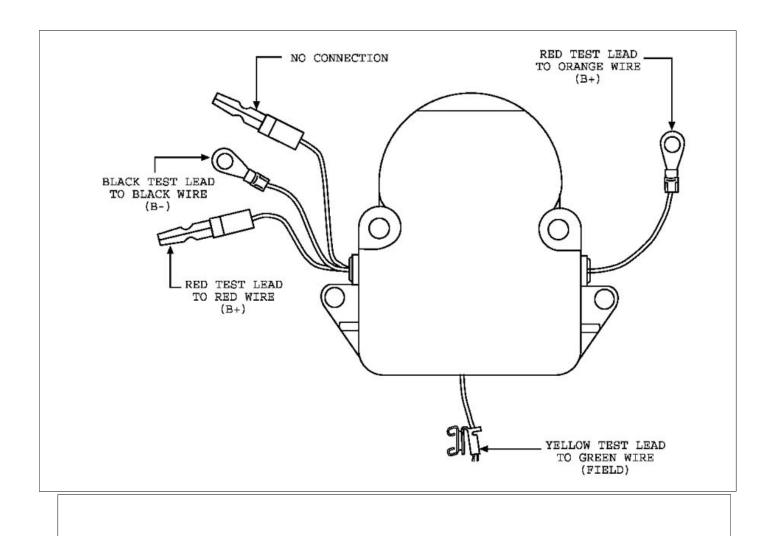
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 271 Product Group M5-32 Revision: Date: 1/6/2021

		for M	OTOROLA	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-193A	В	12	14.4				
M5-214A	В	12	14.4				
M5-240A	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 272 Product Group M5-33 Revision: 8/23/1999 Date : <u>1/6/2021</u>

MOTOROLA

for

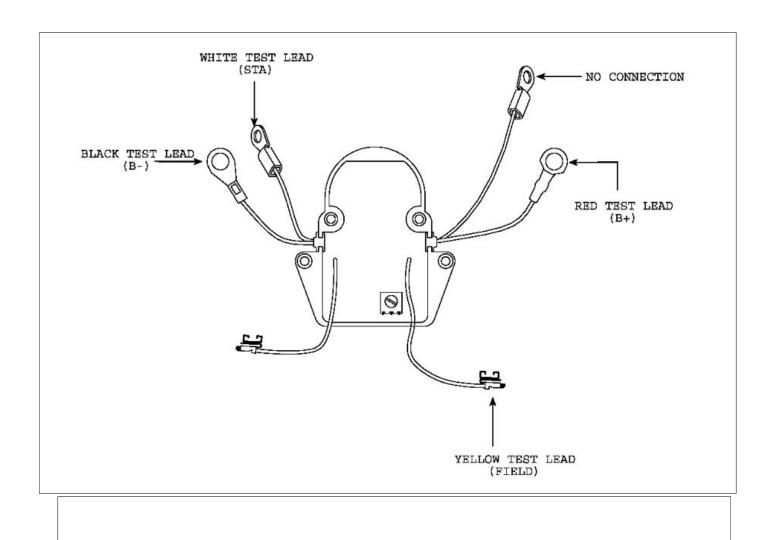
				5,6000			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-237A	В	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from stator wires. The field lamp should stay on and the meter will indicate high voltage. Connect red test lead to the post marked "no connection". Regulator will regulate at the specified set point voltage.



Page 273 Product Group M5-34 Revision: 9/12/1997 Date: 1/6/2021

type regulators

MOTOROLA

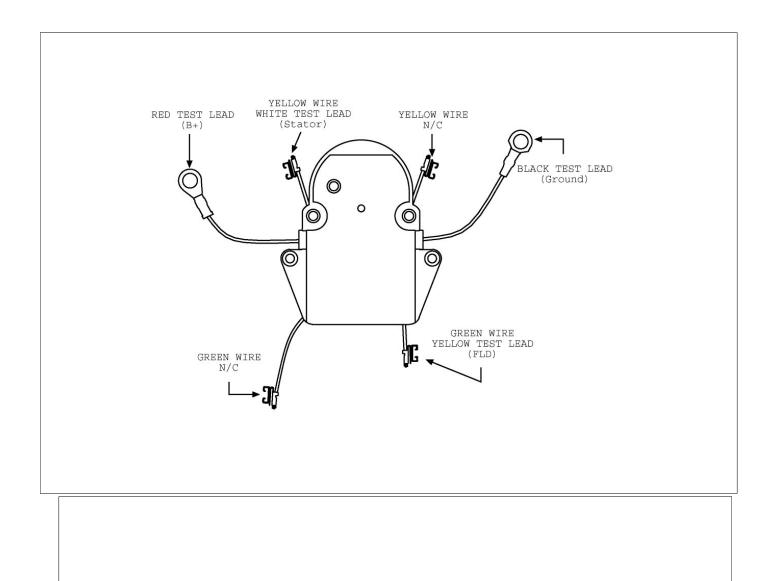
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-292A	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator". Field lamp should turn off and the meter will indicate approximately 12v.

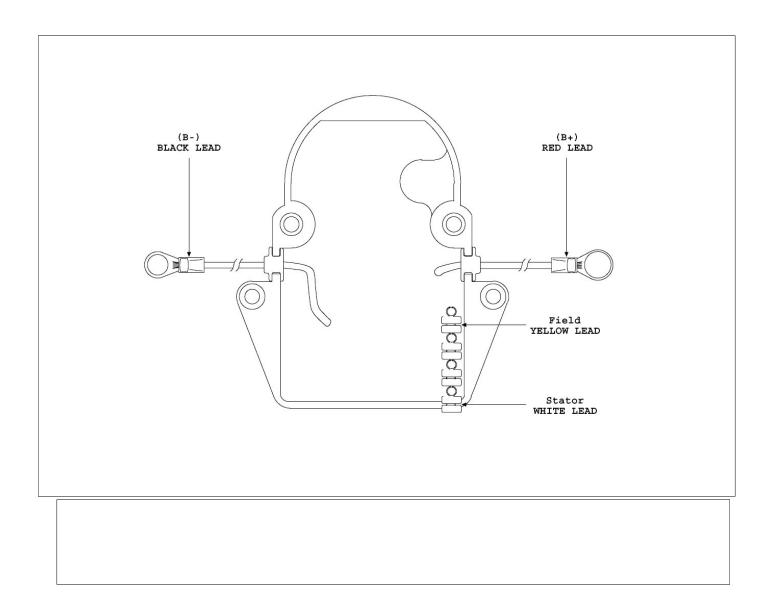


Page 274 Product Group M5-35 Revision: 3/12/1999 Date : <u>1/6/2021</u>

MOTOROLA type regulators

		·					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-329A	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 275 Product Group M5-36 Revision: 8/25/1998 Date : <u>1/6/2021</u>

type regulators

MOTOROLA

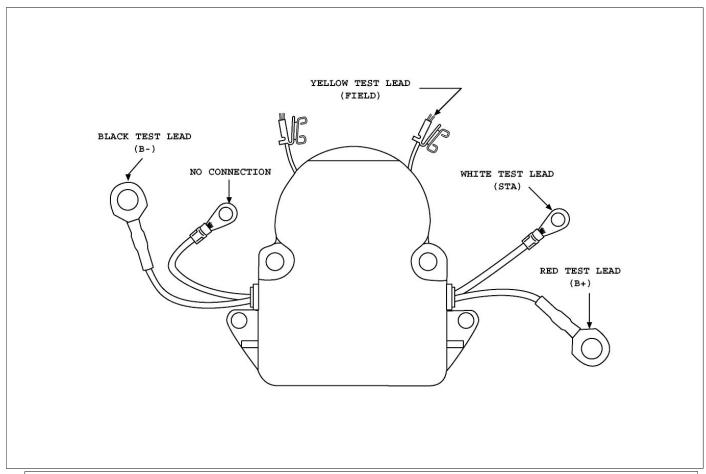
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-247A	В	24	27.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from yellow wire of the regulator marked as "Stator". Field lamp should turn off and the meter will indicate low voltage.



NOTE: Original Equipment Regulator no. 5-247 is an "A" circuit compared to Transpo's "B" circuit.

Page 276 Product Group M5-37 Revision: Date: 1/6/2021

MOTOROLA

for

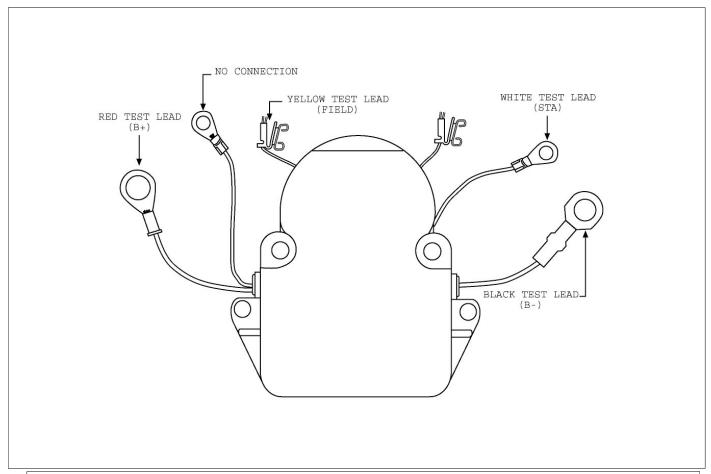
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-249A	В	24	28.0				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from yellow wire of the regulator marked as "Stator". Field lamp should turn off and the meter will indicate low voltage.



NOTE: Original Equipment Regulator no. 5-249 is an "A" circuit compared to Transpo's "B" circuit.

Page 277 Product Group M5-38 Revision: Date : <u>1/6/2021</u>

MOTOROLA

for

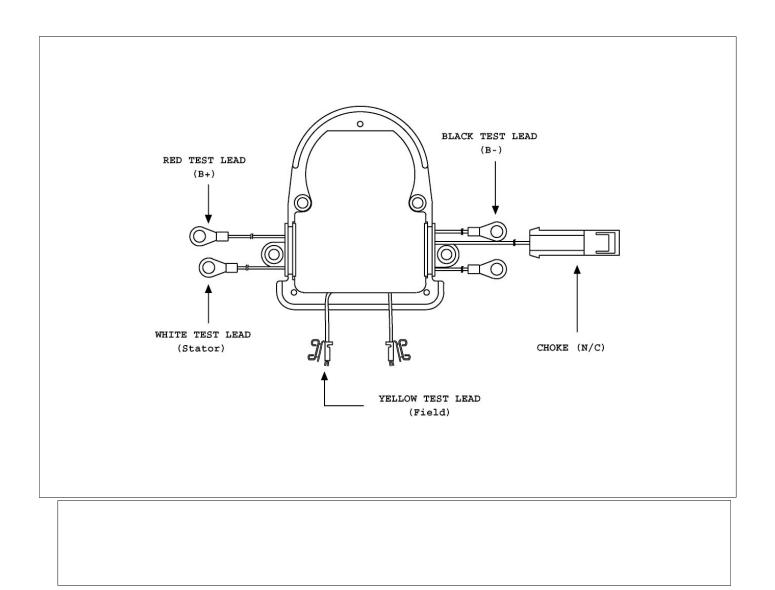
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-050A	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from yellow wire of the regulator marked as "Stator". Field lamp should turn off and the meter will indicate low voltage.



Page 278 Product Group M5-39 Revision: 9/1/1998 Date : <u>1/6/2021</u>

type regulators

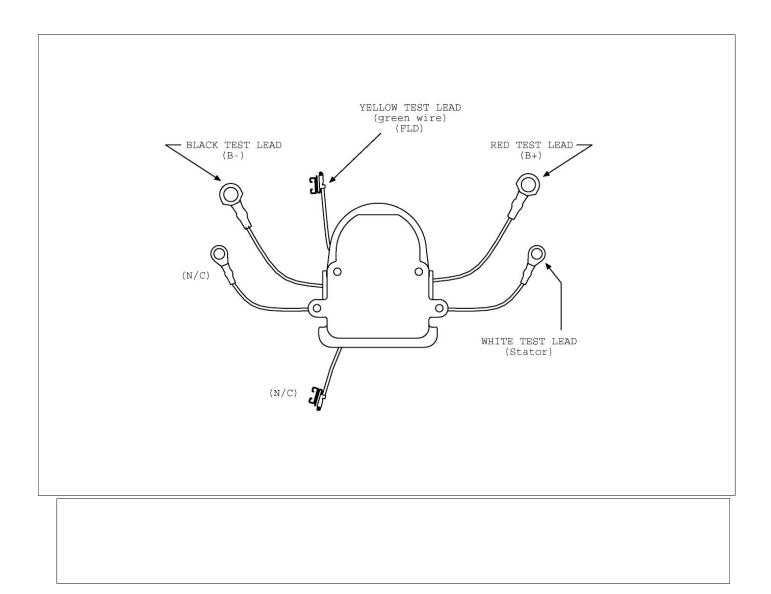
MOTOROLA

							
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-280A	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from yellow wire of the regulator marked as "Stator". Field lamp should turn off and the meter will indicate low voltage.



Page 279 Product Group M5-40 Revision: 1/7/1999 Date : <u>1/6/2021</u>

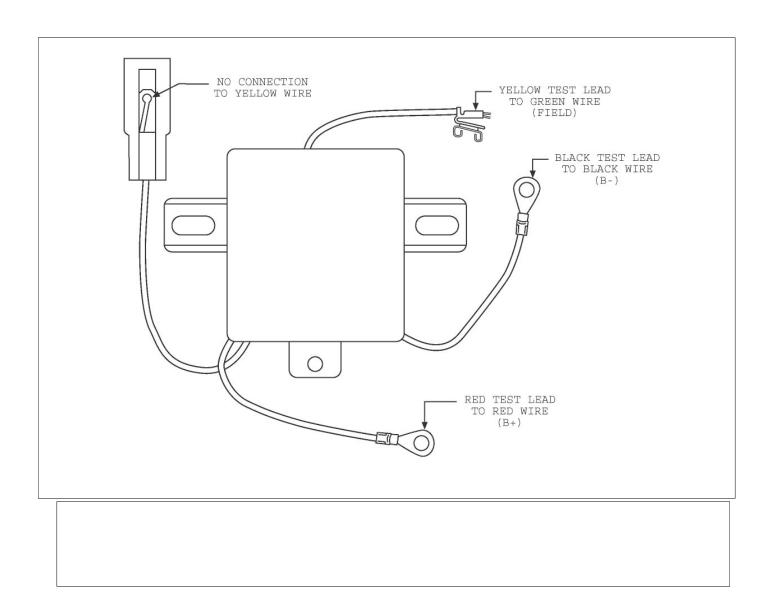
type regulators

MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-29A	В	12	15.0	M5-152A	В	12	14.2
M5-48A	В	24	29.2	M5-182A	В	24	29.2
M5-63A	В	24	29.2	M5-242(A)	В	12	14.2
M5-151A	В	12	15.0	M5-248A	В	24	28.4

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 280 Product Group M5-41 Revision: Date: <u>1/6/2021</u>

type regulators

MOTOROLA

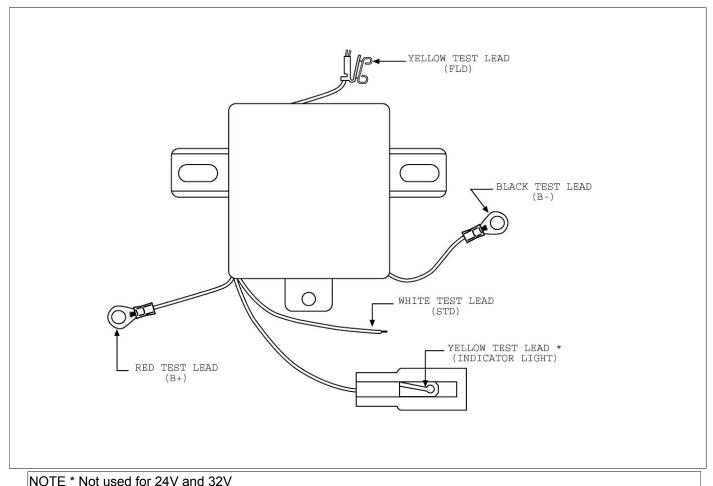
for

				,. 0			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-151SA6	В	6	7.8	M5-151SA32	В	32	37.5
M5-151SA8	В	8	9.6				
M5-151SA12	В	12	14.2				
M5-151SA24	В	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove the white test lead from the yellow wire of the regulator marked "stator". Field lamp should turn off and the meter will indicate low voltage. On models with indicator light connection, removal of stator lead form regulator should cause the light to turn on and meter indicates low voltage.



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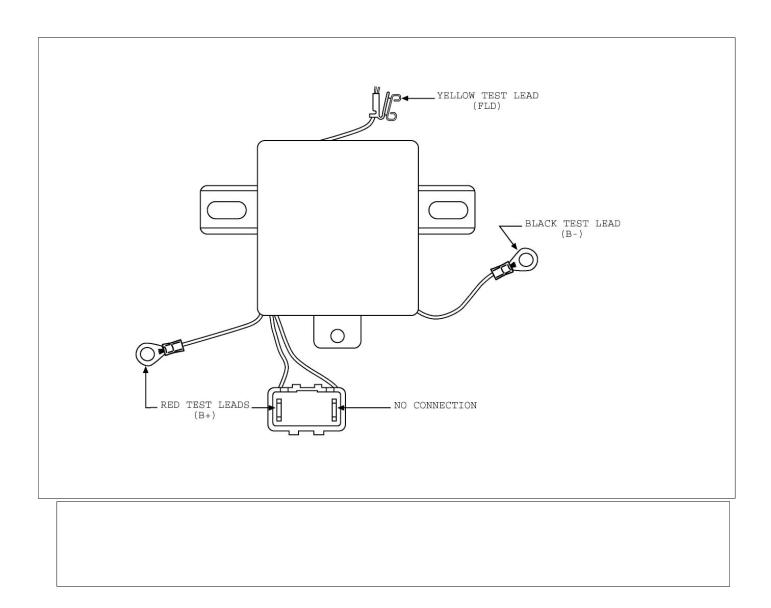
Page 281 Product Group M5-42 Revision: Date: 1/6/2021

type regulators

MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-26A	В	12	15.2	M5-153A	В	12	15.0
M5-27A	В	24	29.2	M5-183A	В	24	29.2
M5-92A	В	12	15.2				
M5-93A	В	24	29.2				

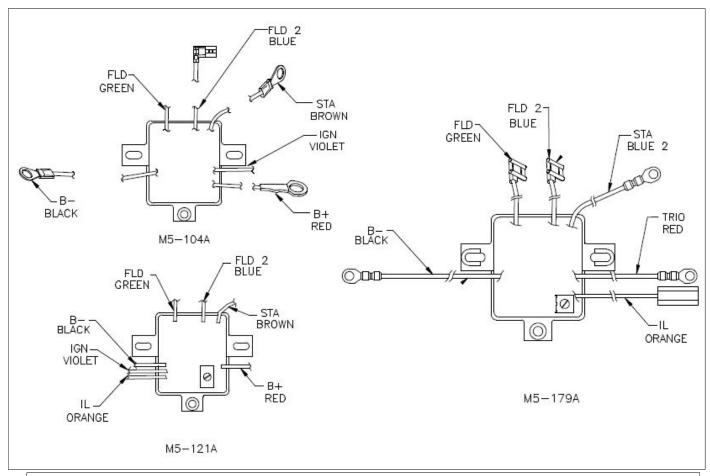
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 282 Product Group M5-43 Revision: Date: <u>1/6/2021</u>

		for	MOTOROLA	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-104A	Α	12	14.2				
M5-121A	Α	12	14.2				
M5-179A	Α	24	28.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



NOTE:

The above are "SCR" type regulators. They cannot be tested on Transpo's regulator tester due to a requirement of an adapter. To test them simply install them in the appropriate alternator and check for regulation.

Page 283 Product Group M5-44 Revision: Date: 1/6/2021

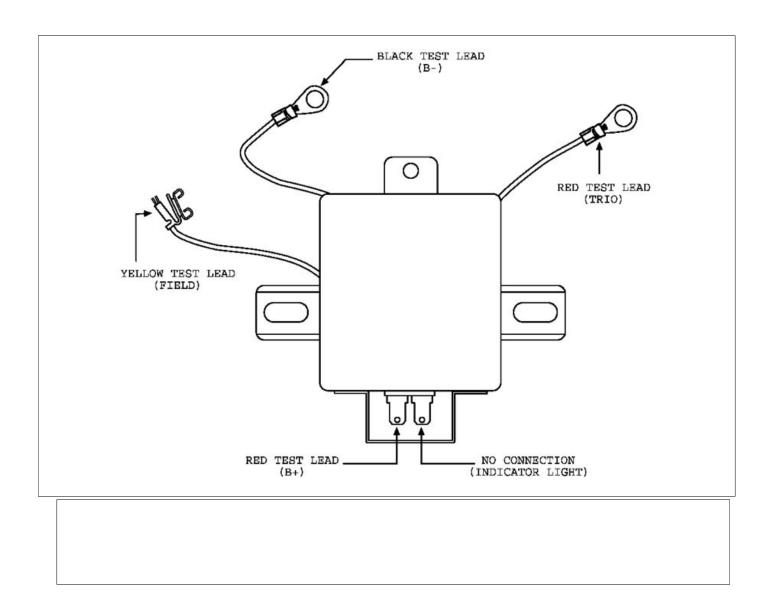
type regulators

MOTOROLA

for

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-164A	В	24	28.4				
M5-167A	В	12	14.2				

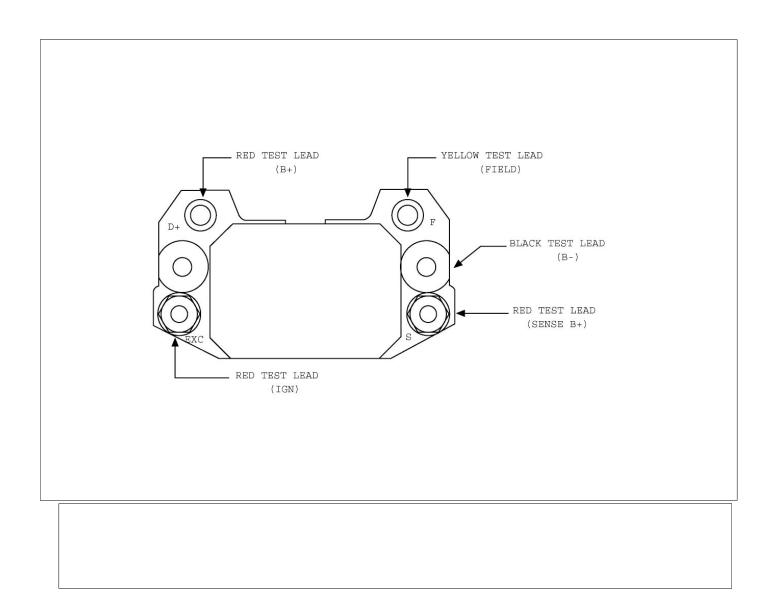
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 284 Product Group M5-45 Revision: Date: <u>1/6/2021</u>

		for	MOTOROLA	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-265	Α	12	14.4				
M5-266	Α	12	14.4				
M5-269	Α	24	28.4				
M5-270	Α	24	28.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 285 Product Group M5-46 Revision: Date : <u>1/6/2021</u>

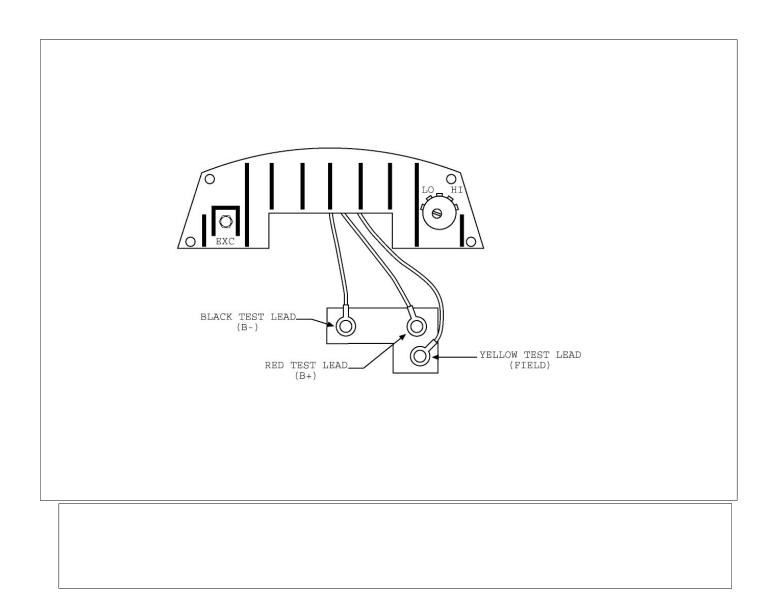
type regulators

MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-123A	Α	24	28.0				
M5-128A	В	32	38.4				
M5-234A	В	12	14.2				

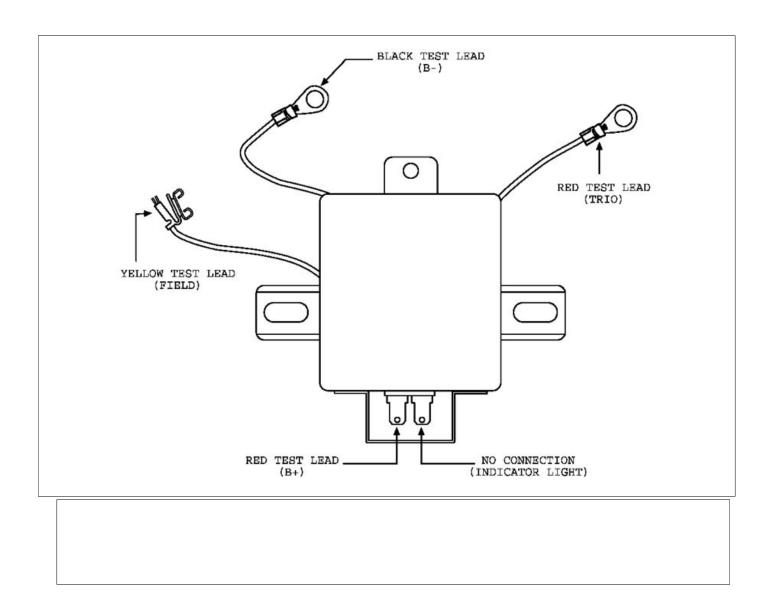
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 286 Product Group M5-47 Revision: Date: <u>1/6/2021</u>

		for	MOTOROLA	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-158A	В	24	29.2				
M5-162A	В	24	28.4				
M5-166A	В	24	28.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 287 Product Group M5-48 Revision: Date: 1/6/2021

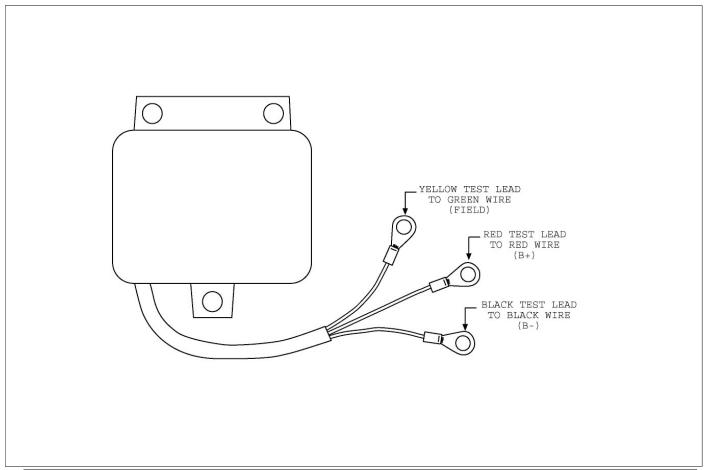
type regulators

MOTOROLA

 PART NO.
 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

 M5-160A
 B
 24
 29.1
 Image: Control of the control o

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



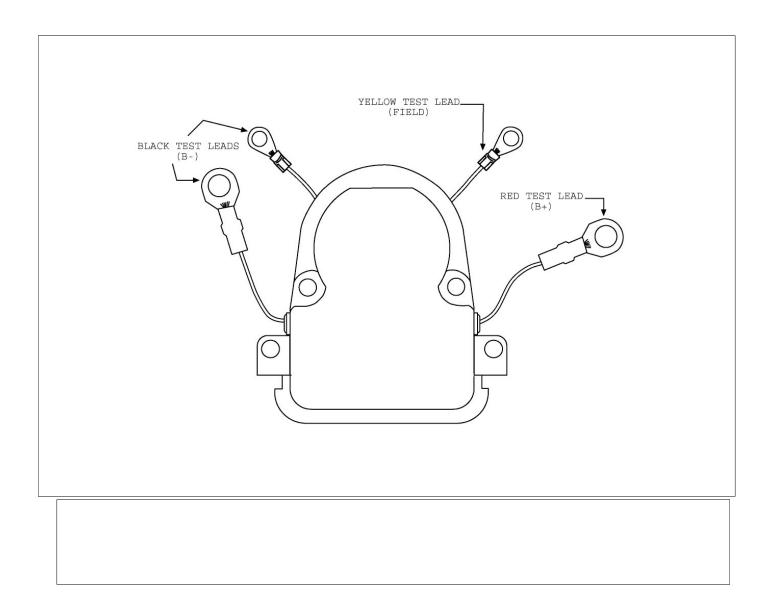
REGULATOR CONNECTION	TEST LEAD	FUNCTION
BLACK	BLACK	BATTERY NEGATIVE
RED	RED	TRIO, IGNITION, AUX
GREEN	YELLOW	FIELD
YELLOW	NO CONNECTION	

Page 288 Product Group M5-49 Revision: Date : <u>1/6/2021</u>

MOTOROLA type regulators

		·					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-165A	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

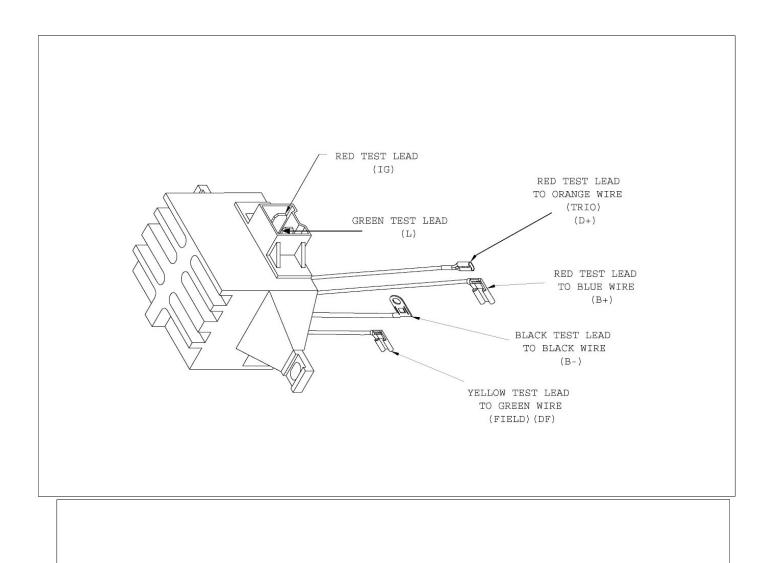


Page 289 Product Group M5-50 Revision: Date: <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-508	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

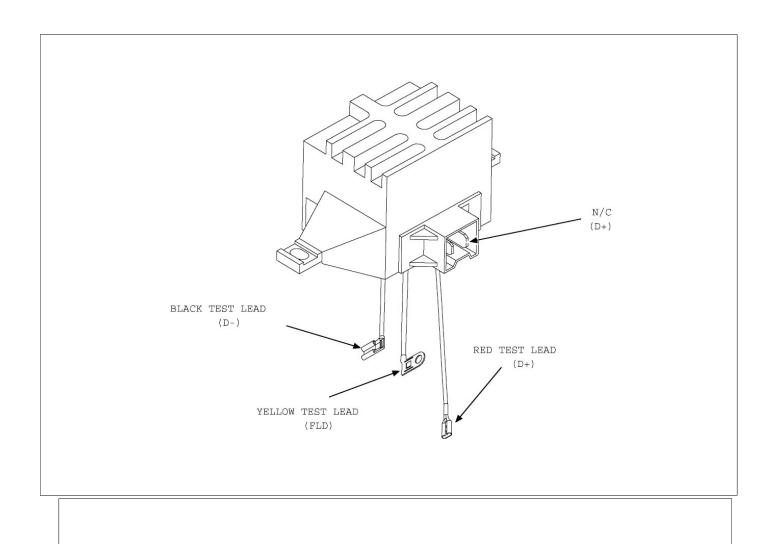


Page 290 Product Group M-01 Revision: 10/20/1997 Date : <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-509	В	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



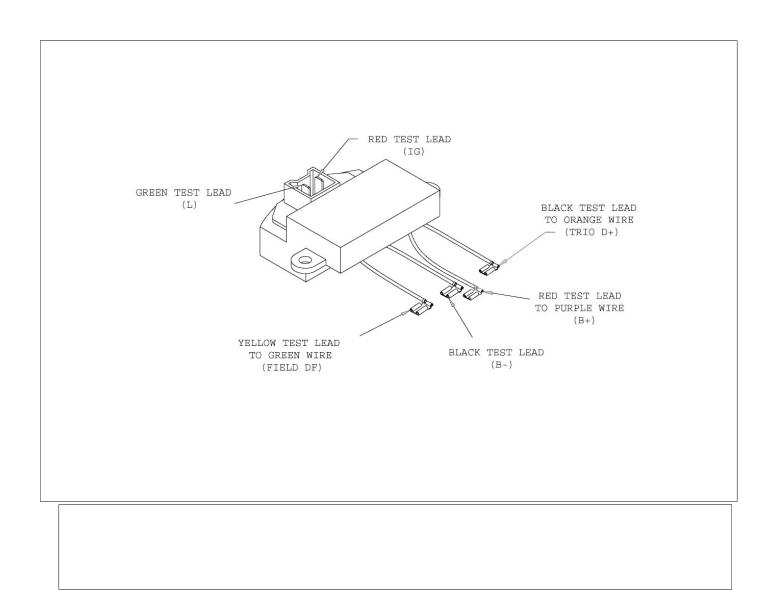
Page 291 Product Group M-02 Revision: 12/15/1999 Date : <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-515	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove black test lead from terminal marked "D+". Indicator will come on.

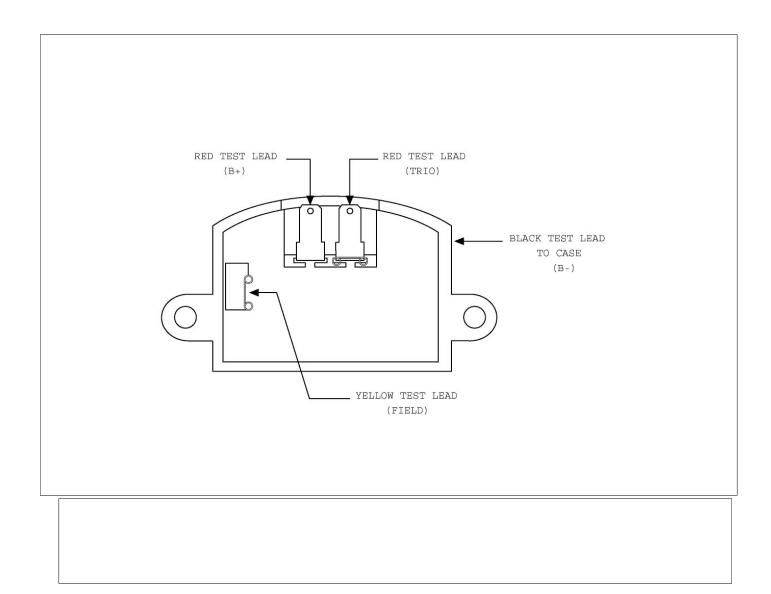


Page 292 Product Group M-03 Revision: 10/20/1997 Date : <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-170A	В	12	14.4				
M5-742A	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

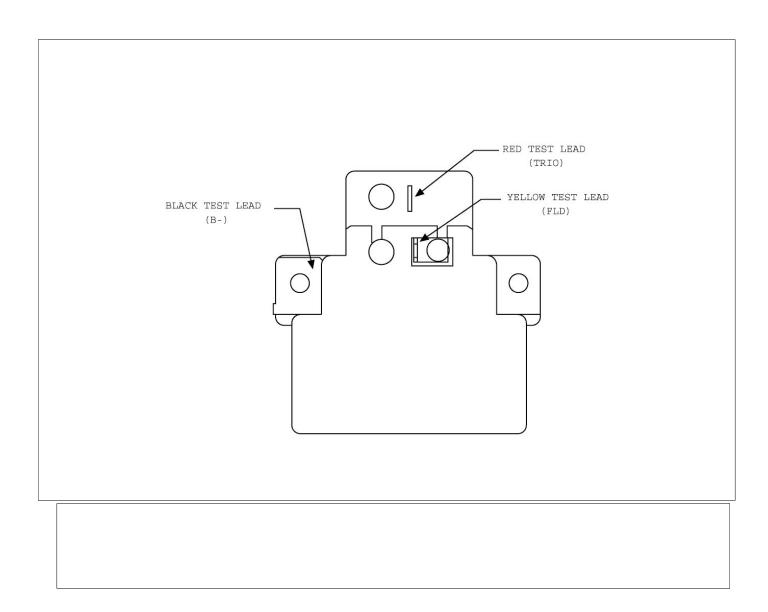


Page 293 Product Group M-04 Revision: Date : <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-762	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

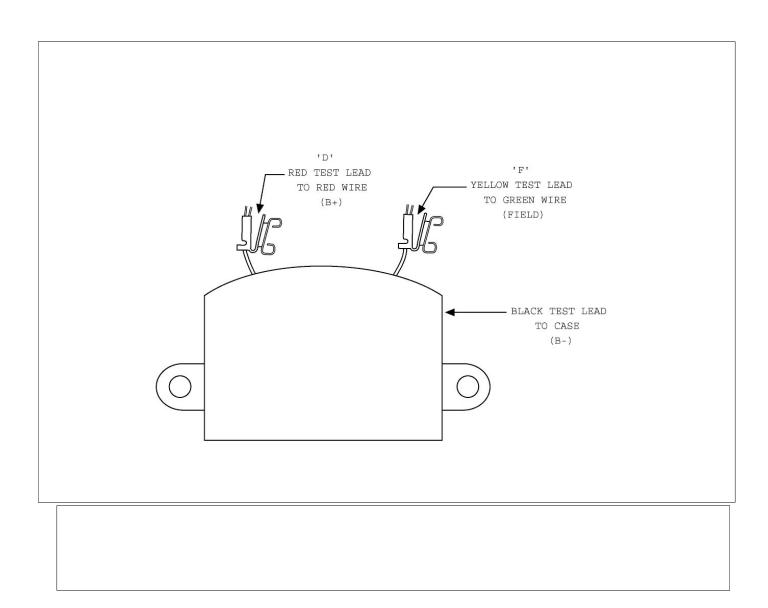


Page 294 Product Group M-05 Revision: Date: <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-180A	В	12	14.2				
M5-241A	В	12	14.2				
M5-763A	В	12	14.1				
M5-764A	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



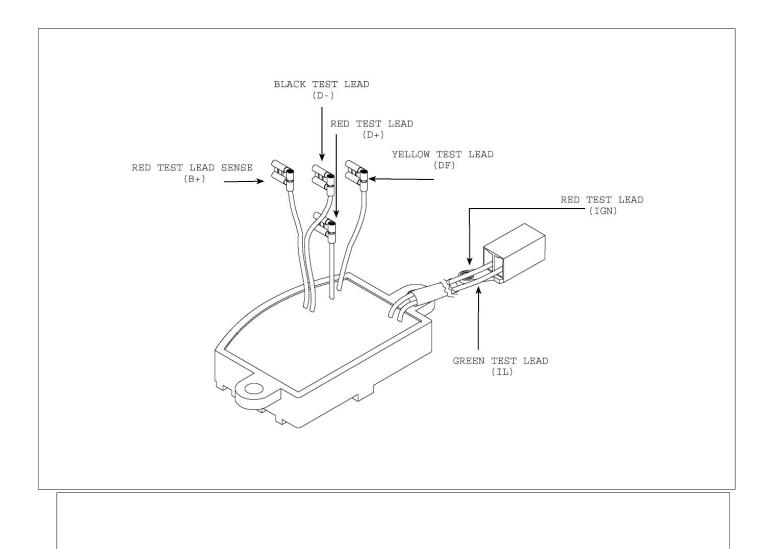
Page 295 Product Group M-06 Revision: Date: <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-768	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove red test lead from terminal marked "D+". Indicator light will come on.



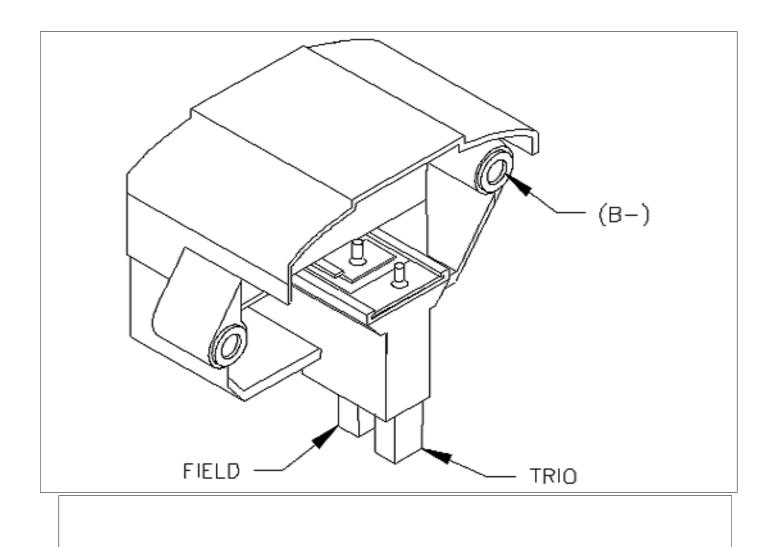
Page 296 Product Group M-07 Revision: 9/6/1997 Date : <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M506	Α	12	14.1				
M508	Α	12	15.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.

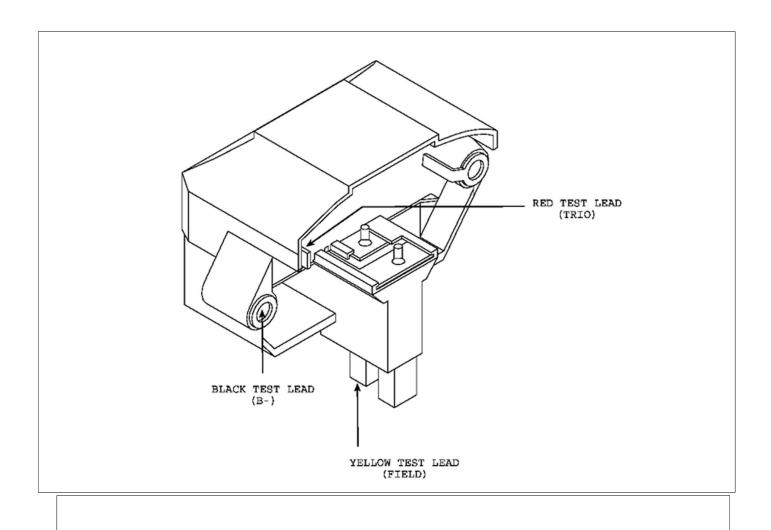


Page 297 Product Group M-08 Revision: 7/29/1997 Date : <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M507	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

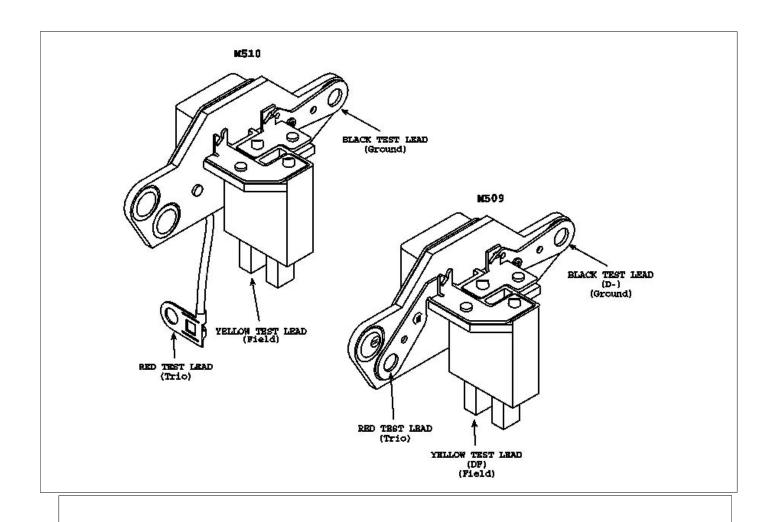


Page 298 Product Group M-09 Revision: Date: <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M509	A	12	14.4				
M510	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

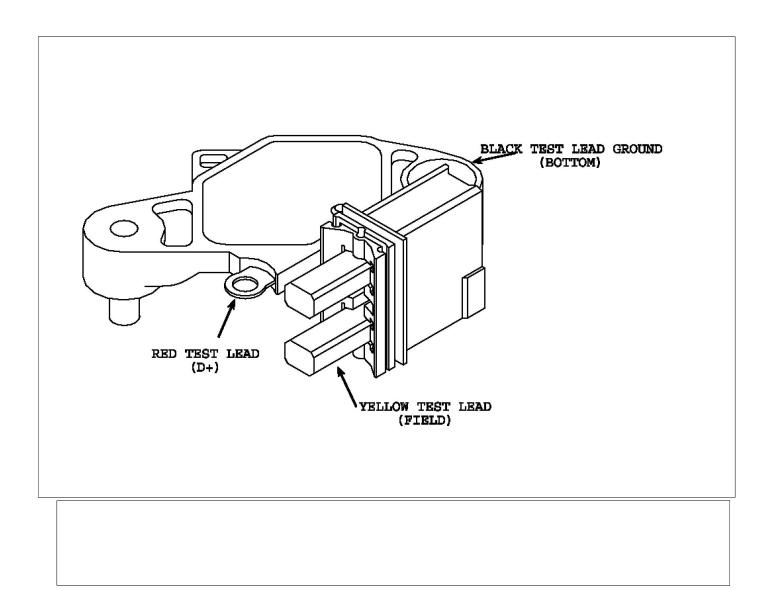


Page 299 Product Group M-10 Revision: 11/28/1900 Date : <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M511	Α	14	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 300 Product Group M-11 Revision: Date: <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

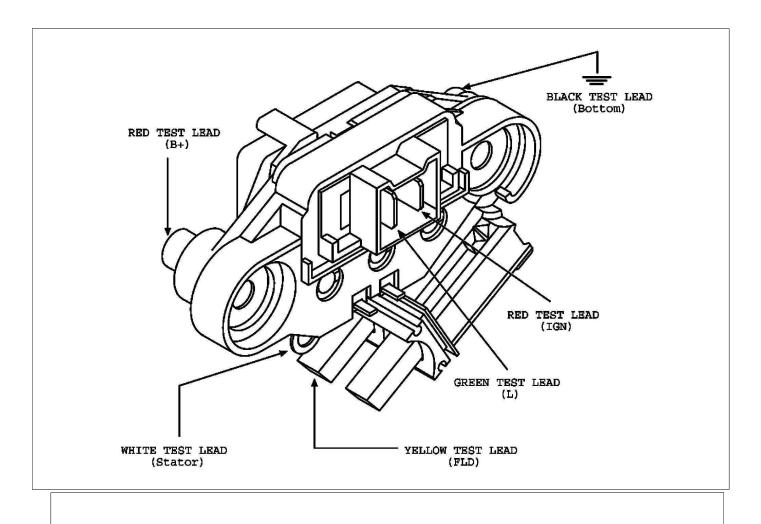
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M512	A	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white lead from stator and voltage should drop to 12.0v. lamp should come on. Field circuit lamp stays on.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 301 Product Group M-12 Revision: 4/26/1905 Date: 1/6/2021

for VALEO / MOTOROLA type regulators

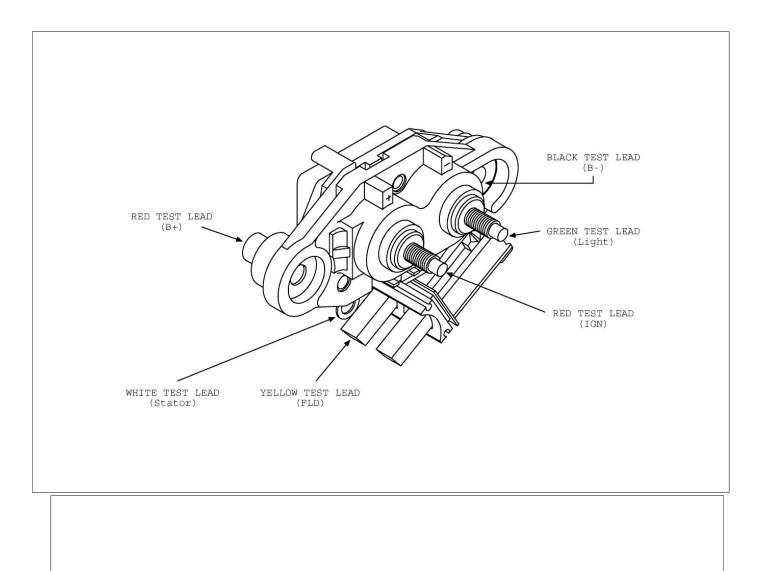
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M513	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white lead from stator and voltage should drop to 12.0v and 12V lamp should come on. Field circuit lamp stays on.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.

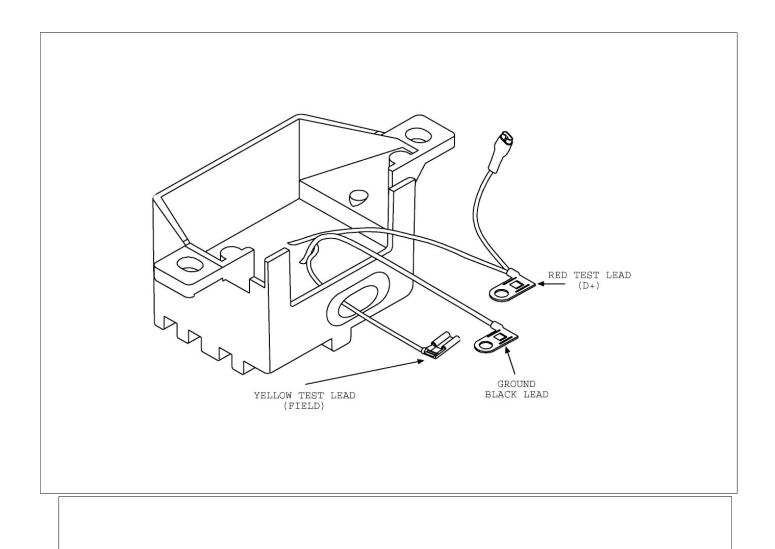


Page 302 Product Group M-13 Revision: 4/26/1905 Date: 1/6/2021

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-036	В	12	14.4				

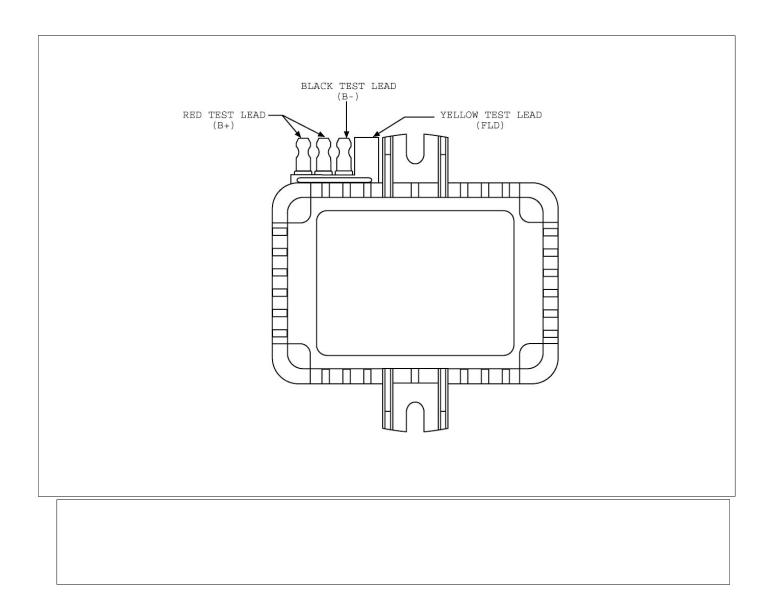
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 303 Product Group M-14 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	NIEHOFF	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
NA2-101	Α	24	27.5				
NA2-102	Α	12	14.2				
NA2-103	Α	32	37.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



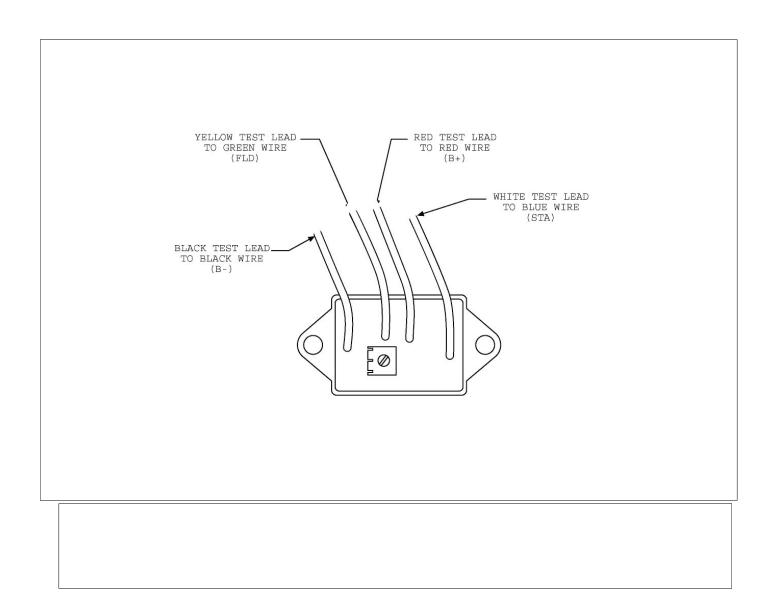
Page 304 Product Group N-01 Revision: Date: <u>1/6/2021</u>

		for	NIEHOFF	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
N9013	Α	12	14.3						
N9015	Α	24	27.5						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from blue wire of the regulator. Field lamp should turn off and the meter will indicate low voltage.



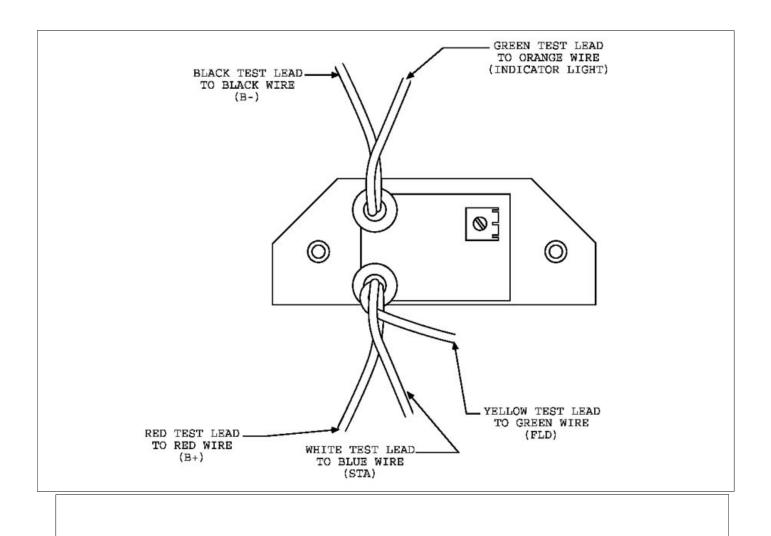
Page 305 Product Group N-02 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	NIEHOFF	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
N9014	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from blue wire of the regulator. Field lamp should turn off and the meter will indicate low voltage and indicator light will turn on.



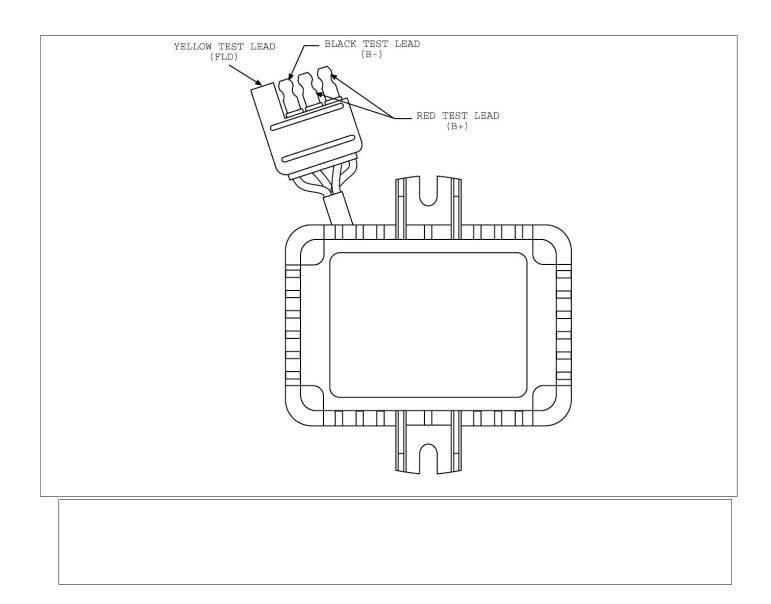
Page 306 Product Group N-03 Revision: 5/1/1997 Date : <u>1/6/2021</u>

		for	NIEHOFF	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
NA2-111	Α	24	28.0				
NA2-110	Α	12	14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from the terminal marked "IGNITION". Field lamp should turn off and the meter will indicate approximately 12V. For NA2-111. For NA2-110.

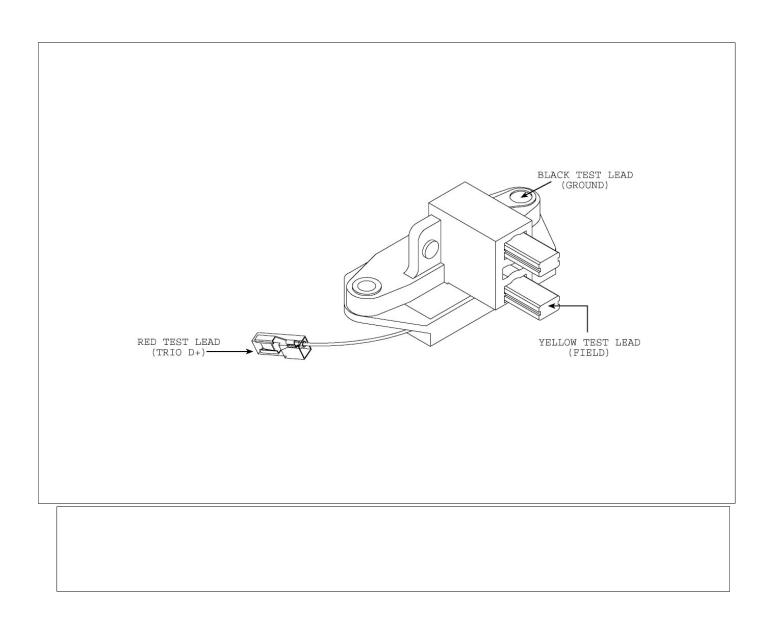


Page 307 Product Group N-10 Revision: 5/1/1997 Date : <u>1/6/2021</u>

for MAGNETON-PAL type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
MP293	Α	14	28.4				
MP291	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

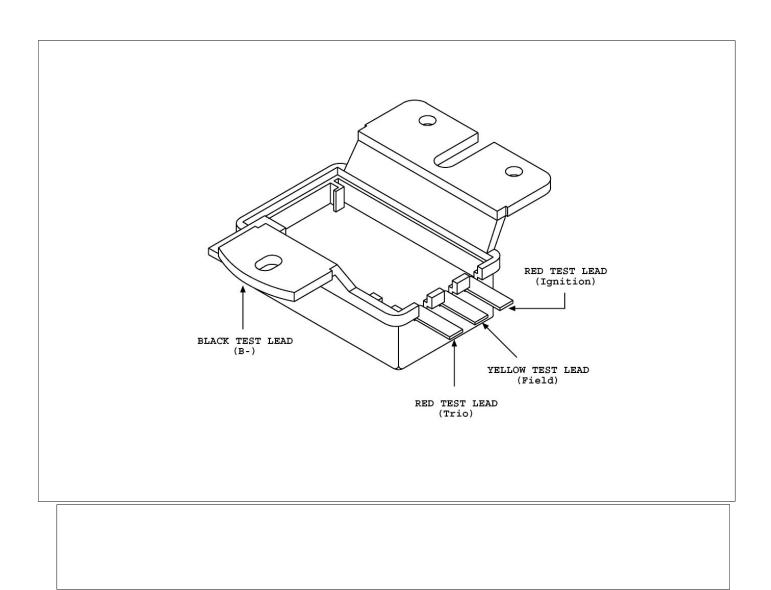


Page 308 Product Group PAL-01 Revision: 8/22/1902 Date : <u>1/6/2021</u>

for MAGNETON-PAL type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
MP417	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

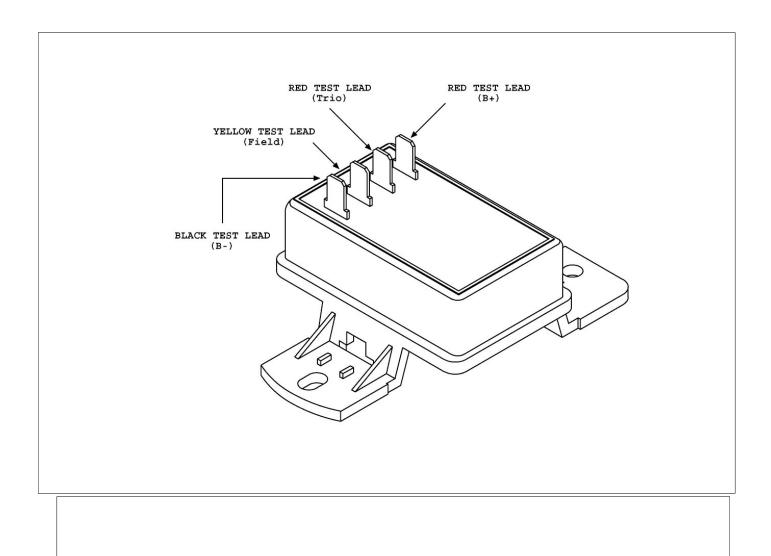


Page 309 Product Group PAL-02 Revision: 9/1/1998 Date : <u>1/6/2021</u>

for MAGNETON-PAL type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
MP419	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 310 Product Group PAL-03 Revision: 9/1/1998 Date : <u>1/6/2021</u>

PRESTOLITE

PART NO. FLD **VOLT SET POINT** PART NO. FLD VOLT **SET POINT** P8-328 P8-407 В 12 14.2 В 12 15.0 P8-328A В 12 14.2 P8-407A В 12 15.0 P8-379 В 12 15.0 P8-406 В 12 15.0 P8-379A В 12 15.0 P8-406A В 12 15.0

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Part #	VSH#	Tester Conn.	
		POS / NEG / FLD	
P8-328/A	6201A	RED / CASE / GREEN	
P8-379/A	6201AB	BROWN / BLACK / GREEN	7
P8-407/A	6201ACY	ORANGE / BLACK / GREEN	
P8-406/A	6201ADY	BROWN / BLACK / GREEN	
P8-403/A	6201AE	RED / CASE / STUD	
P8-404/A	6201AFY	PURPLE / BLACK / YELLOW	
P8-410/A	6201AGY	PURPL E/BLACK/YELLOW	7
P8-343/A	6201D	RED / CASE / GREEN	
P8-354/A	6201G	RED / BLACK / GREEN	
P8-355/A	6201H	ORANGE / BLACK / GREEN	7
P8-357/A	6201K	RED / BLACK / GREEN]
P8-352/A	6201N	STUD / BLACK / GREEN	1
P8-368/A	6201W	RED / CASE / GREEN	1 1 0
P8-405/A	6201JY	RED / CASE / STUD	1 🗕
P8-393/A	6401	ORANGE / CASE / GREEN	ן ו
		ATTACH TEST LEADS TO TERMINALS OR CASE INDICATED IN THE TABLE ABOVE	1000

Page 311 Product Group P8-01 Revision: 5/1/1997 Date: 1/6/2021

PRESTOLITE

PART NO. FLD **VOLT SET POINT** PART NO. FLD VOLT **SET POINT** P8-403 P8-410 В 12 14.2 В 12 14.2 P8-403A В 12 14.2 P8-410A В 12 14.2 P8-404 В 12 14.2 P8-343 В 12 15.0 P8-404A В 12 14.2 P8-343A В 12 15.0

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Part #	VSH#	Tester Conn.	
		POS / NEG / FLD	
P8-328/A	6201A	RED / CASE / GREEN	
P8-379/A	6201AB	BROWN / BLACK / GREEN	7
P8-407/A	6201ACY	ORANGE / BLACK / GREEN	
P8-406/A	6201ADY	BROWN / BLACK / GREEN	
P8-403/A	6201AE	RED / CASE / STUD	
P8-404/A	6201AFY	PURPLE / BLACK / YELLOW	
P8-410/A	6201AGY	PURPL E/BLACK/YELLOW	7
P8-343/A	6201D	RED / CASE / GREEN	
P8-354/A	6201G	RED / BLACK / GREEN	
P8-355/A	6201H	ORANGE / BLACK / GREEN	7
P8-357/A	6201K	RED / BLACK / GREEN]
P8-352/A	6201N	STUD / BLACK / GREEN	1
P8-368/A	6201W	RED / CASE / GREEN	1 1 0
P8-405/A	6201JY	RED / CASE / STUD	1 🗕
P8-393/A	6401	ORANGE / CASE / GREEN	ן ו
		ATTACH TEST LEADS TO TERMINALS OR CASE INDICATED IN THE TABLE ABOVE	1000

Page 312 Product Group P8-02 Revision: 5/1/1997 Date: 1/6/2021

PRESTOLITE

PART NO. FLD **VOLT SET POINT** PART NO. FLD VOLT **SET POINT** P8-354 P8-357 В 12 14.2 В 12 14.2 P8-354A В 12 14.2 P8-357A В 12 14.2 P8-355 В 12 14.2 P8-352 В 12 14.2 P8-355A В 12 14.2 P8-352A В 12 14.2

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Part #	VSH#	Tester Conn.	
		POS/NEG/FLD	_
P8-328/A	6201A	RED / CASE / GREEN]
P8-379/A	6201AB	BROWN / BLACK / GREEN]
P8-407/A	6201ACY	ORANGE / BLACK / GREEN]
P8-406/A	6201ADY	BROWN / BLACK / GREEN]
P8-403/A	6201AE	RED / CASE / STUD	
P8-404/A	6201AFY	PURPLE / BLACK / YELLOW]
P8-410/A	6201AGY	PURPL E/BLACK/YELLOW]
P8-343/A	6201D	RED / CASE / GREEN	1
P8-354/A	6201G	RED / BLACK / GREEN	1
P8-355/A	6201H	ORANGE / BLACK / GREEN	1
P8-357/A	6201K	RED / BLACK / GREEN	1
P8-352/A	6201N	STUD / BLACK / GREEN	1 \(\)
P8-368/A	6201W	RED / CASE / GREEN	1 0
P8-405/A	6201JY	RED / CASE / STUD	
P8-393/A	6401	ORANGE / CASE / GREEN	1 11
		ATTACH TEST LEADS TO TERMINALS OR CASE INDICATED IN THE TABLE ABOVE	

Page 313 Product Group P8-03 Revision: 5/1/1997 Date : <u>1/6/2021</u>

PRESTOLITE

PART NO. FLD **VOLT SET POINT** PART NO. FLD VOLT **SET POINT** P8-368 P8-393 В 12 15.0 В 24 27.5 P8-368A В 12 15.0 P8-393A В 24 27.5 P8-405 В 12 14.2 P8-405A В 12 14.2

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

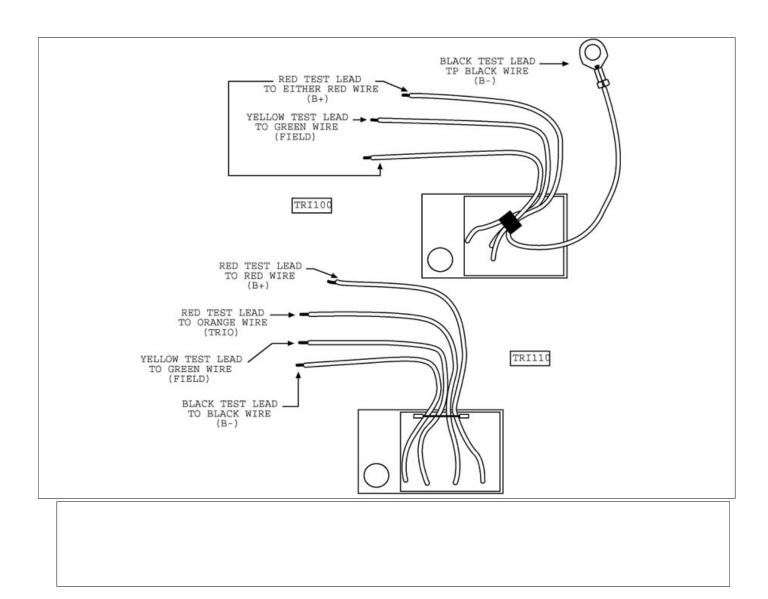
Part #	VSH#	Tester Conn.	
		POS / NEG / FLD	
P8-328/A	6201A	RED / CASE / GREEN	
P8-379/A	6201AB	BROWN / BLACK / GREEN	
P8-407/A	6201ACY	ORANGE / BLACK / GREEN	
P8-406/A	6201ADY	BROWN / BLACK / GREEN	7
P8-403/A	6201AE	RED / CASE / STUD	7
P8-404/A	6201AFY	PURPLE / BLACK / YELLOW	7
P8-410/A	6201AGY	PURPL E/BLACK/YELLOW	7
P8-343/A	6201D	RED / CASE / GREEN	7
P8-354/A	6201G	RED / BLACK / GREEN	1
P8-355/A	6201H	ORANGE / BLACK / GREEN	1
P8-357/A	6201K	RED / BLACK / GREEN	1
P8-352/A	6201N	STUD / BLACK / GREEN	1 \(\cap \)
P8-368/A	6201W	RED / CASE / GREEN	1 0
P8-405/A	6201JY	RED / CASE / STUD	
P8-393/A	6401	ORANGE / CASE / GREEN	7
		ATTACH TEST LEADS TO TERMINALS OR CASE INDICATED IN THE TABLE ABOVE	

Page 314 Product Group P8-04 Revision: 5/1/1997 Date: 1/6/2021

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI100	Α	12	14.6				
TRI110	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



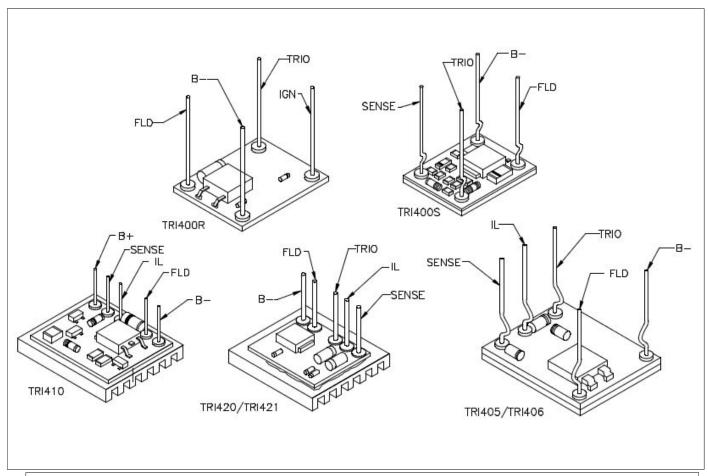
Page 315 Product Group TRI-01 Revision: Date : <u>1/6/2021</u>

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI400R	Α	12	14.5	TRI410	Α	12	14.6
TRI400S	Α	12	14.5	TRI420	Α	12	14.6
TRI405	Α	12	14.4	TRI421	Α	12	14.6
TRI406	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

TESTER CONNECTION CHART B ... RED TEST RED (B+) S ... RED TEST LEAD (SENSE)
R ... RED TEST LEAD (IG) T ... RES TEST LEAD (TRIO) F ... YELLOW TEST LEAD (FLD)
L ... RED TEST LEAD (INDICATOR LIGHT) E ... BLACK TEST LEAD (GROUND)



NOTE: Regulators shown with circuit up (Epoxy side)

NOTE: After repair circuit installation, refer to complete regulator assembly procedure.

REFER TO PRODUCT GROUP TRI-04, PAGE 376-A, FOR REGULATOR'S DIAGRAM

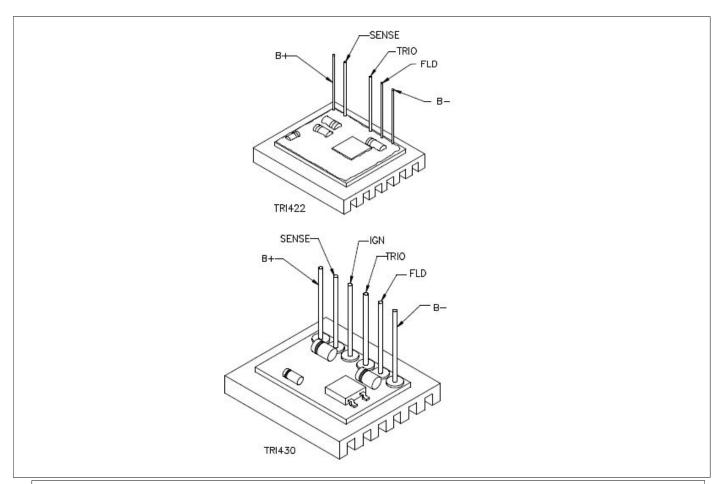
Page 316 Product Group TRI-02 Revision: 6/2/1905 Date: 1/6/2021

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI422	Α	12	14.6				
TRI430	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

TESTER CONNECTION CHART B ... RED TEST RED (B+) S ... RED TEST LEAD (SENSE) R ... RED TEST LEAD (IG) T ... RED TEST LEAD (TRIO) F ... YELLOW TEST LEAD (FLD) L ... RED TEST LEAD (INDICATOR LIGHT) E ... BLACK TEST LEAD (GROUND)



NOTE: Regulators shown with circuit up (Epoxy side)

NOTE: After repair circuit installation, refer to complete regulator assembly procedure.

REFER TO PRODUCT GROUP TRI-04, PAGE 376-A, FOR REGULATOR'S DIAGRAM

Page 317 Product Group TRI-03 Revision: Date: 1/6/2021

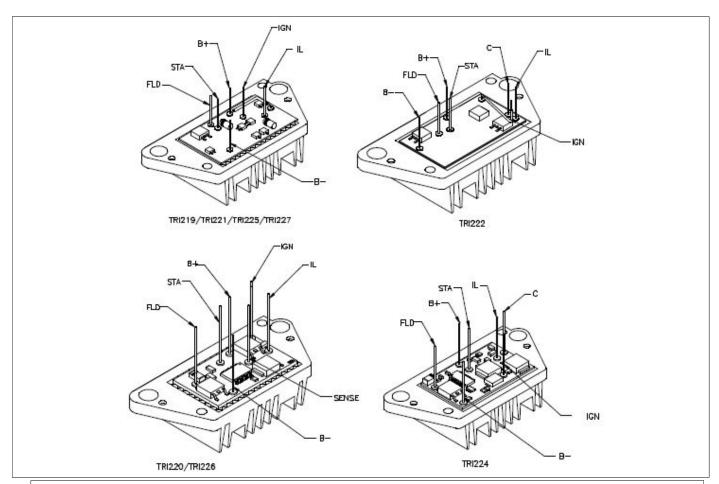
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI219	Α	12	14.5	TRI224	Α	12	14.5
TRI220	Α	12	14.5	TRI225	A	12	14.5
TRI221	Α	12	14.5	TRI226	A	12	14.5
TRI222	Α	12	14.5	TRI227	Α	12	14.5

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



NOTE: Regulators shown with circuit up (Epoxy side)

NOTE: After repair circuit installation, refer to complete regulator assembly procedure.

REFER TO PRODUCT GROUP TRI-07, PAGE 378-A, FOR REGULATOR'S DIAGRAM

Page 318 Product Group TRI-05 Revision: 4/26/1905 Date: 1/6/2021

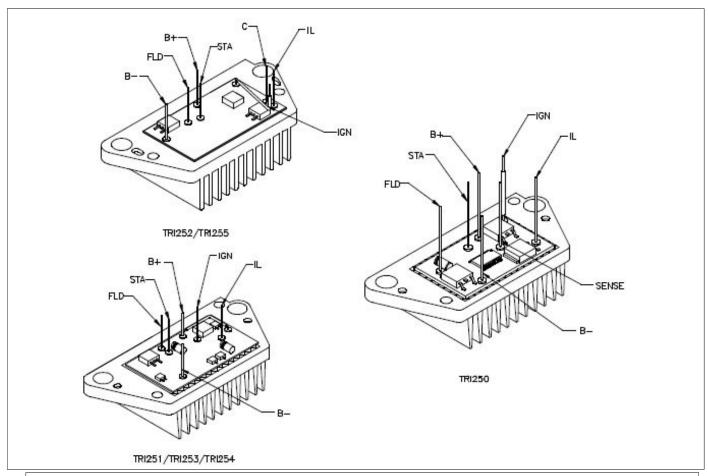
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI250	Α	12	14.5	TRI254	A	12	14.5
TRI251	Α	12	14.5	TRI255	Α	12	14.5
TRI252	Α	12	14.5				
TRI253	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



NOTE: Regulators shown with circuit up (Epoxy side)

NOTE: After repair circuit installation, refer to complete regulator assembly procedure.

REFER TO PRODUCT GROUP TRI-07, PAGE 378-A, FOR REGULATOR'S DIAGRAM

Page 319 Product Group TRI-06 Revision: 4/26/1905 Date: 1/6/2021

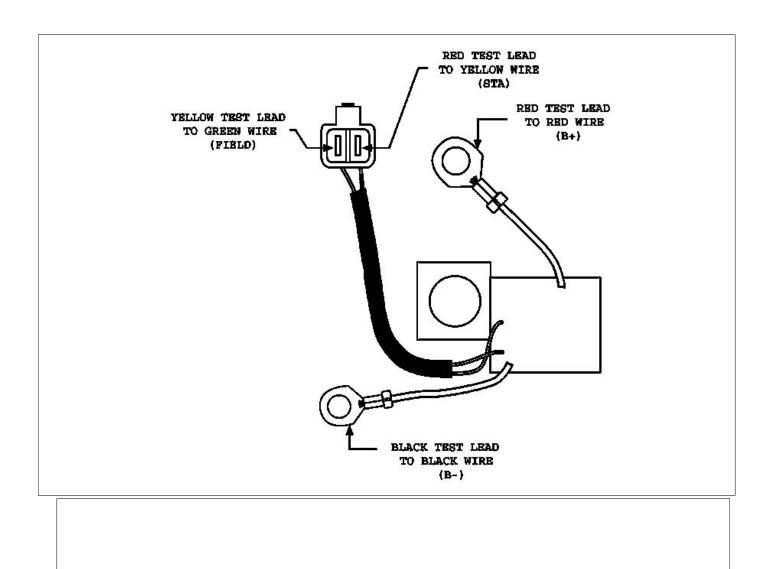
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI10DN	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from regulator's connection marked "STA". Field lamp should turn off and the meter will indicate 12V.



Page 320 Product Group TRI-08 Revision: Date : <u>1/6/2021</u>

for TE REPAIR CIRCUIT type regulators

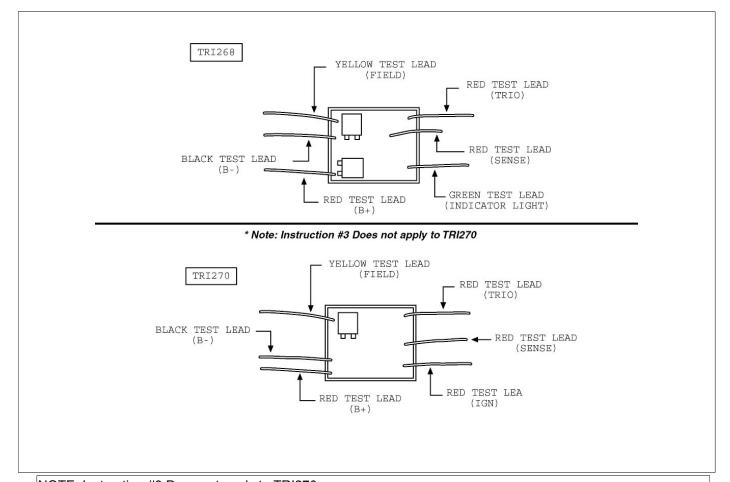
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI268	Α	12	14.5				
TRI270	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

TESTER CONNECTION CHART NOTE: This instruction does not apply to TRI270

- B ... RED TEST RED (B+) I ... GREEN TEST LEAD (I.L.) T ... RED TEST LEAD (TRIO)
- E ... BLACK TEST LEAD (B-) F ... YELLOW TEST LEAD (FLD) A ... RED TEST LEAD (SENSE)

Remove the red test lead from the wire marked "sense". The field light will still blink, the meter will indicate from 15v to 16v and the indicator lamp will remain on.



NOTE: Instruction #3 Does not apply to TRI270

Page 321 Product Group TRI-09 Revision: 9/16/1998 Date: 1/6/2021

for TE REPAIR CIRCUIT type regulators

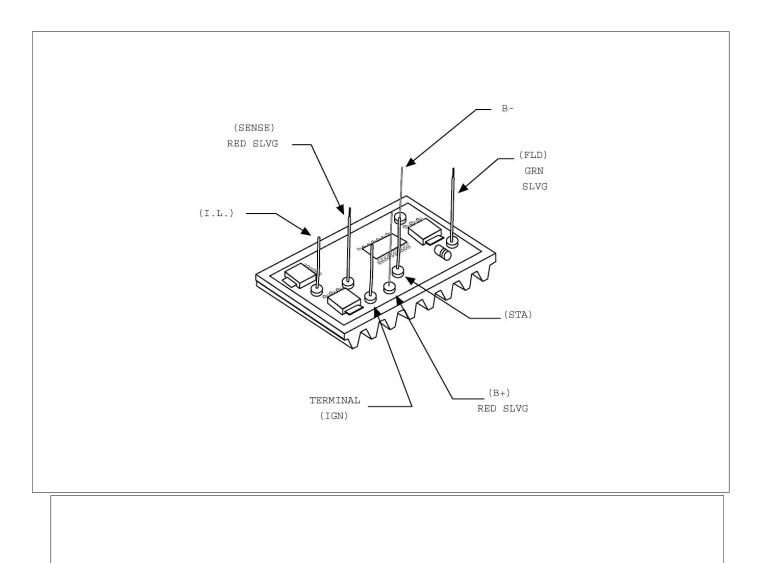
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI247	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from wire marked "STA". Indicator light should turn on, field lamp will remain on and the meter will indicate 12V. Remove red test lead from wire marked "IG". Field lamp should turn off.

<u>Using VRC2010</u>: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.

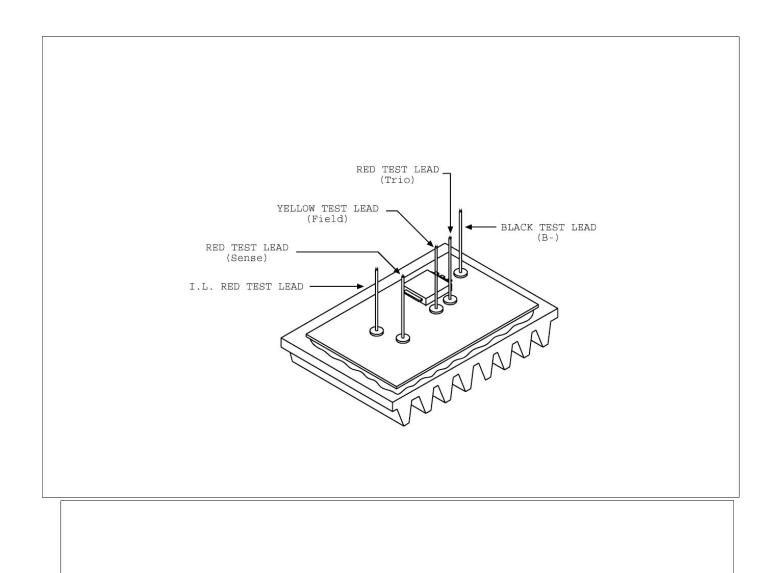


Page 322 Product Group TRI-10 Revision: 4/26/1905 Date : <u>1/6/2021</u>

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI248	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

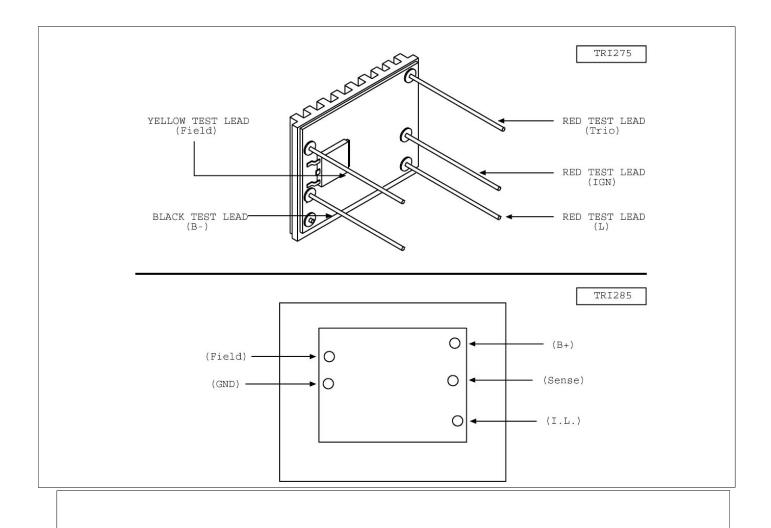


Page 323 Product Group TRI-11 Revision: 9/29/1998 Date : <u>1/6/2021</u>

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI275	Α	12	14.5				
TRI285	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 324 Product Group TRI-12 Revision: 9/17/1998 Date : <u>1/6/2021</u>

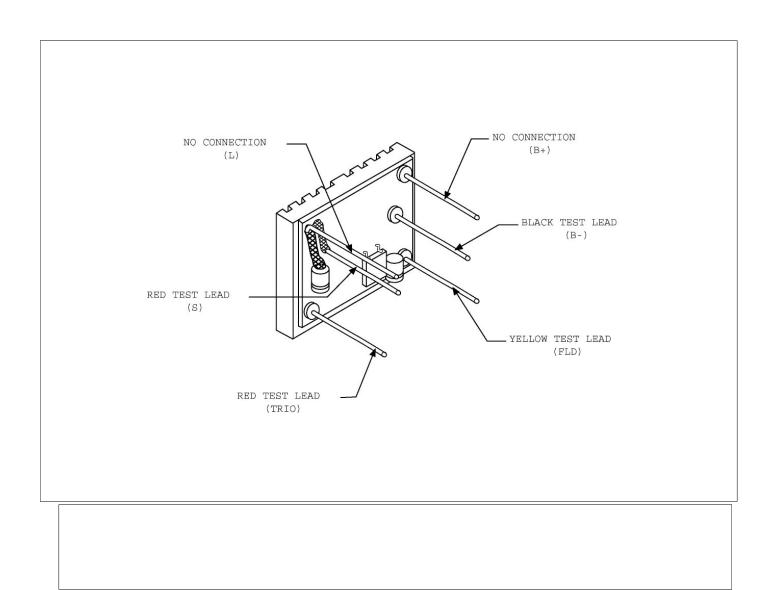
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI278	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from the wire marked as "S". Field lamp should still blink and the meter will indicate approximately 15.5V.

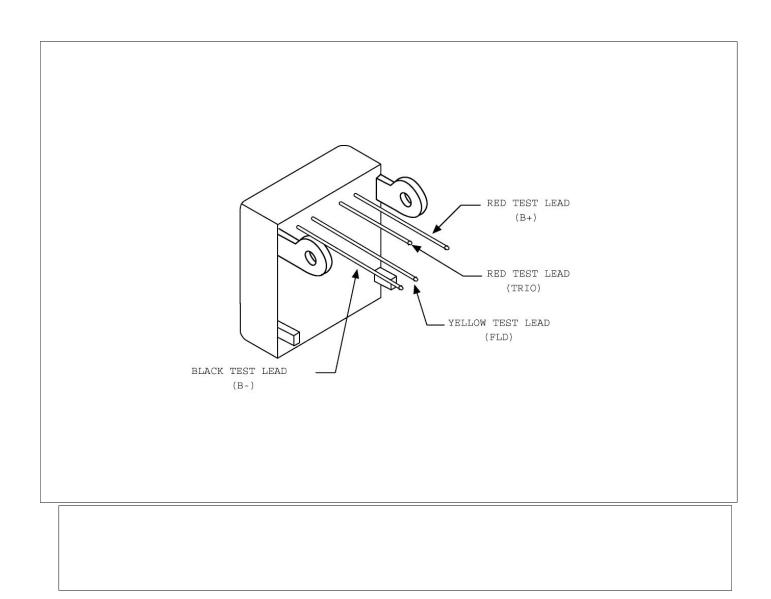


Page 325 Product Group TRI-13 Revision: Date : <u>1/6/2021</u>

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI233	Α	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 326 Product Group TRI-14 Revision: Date: <u>1/6/2021</u>

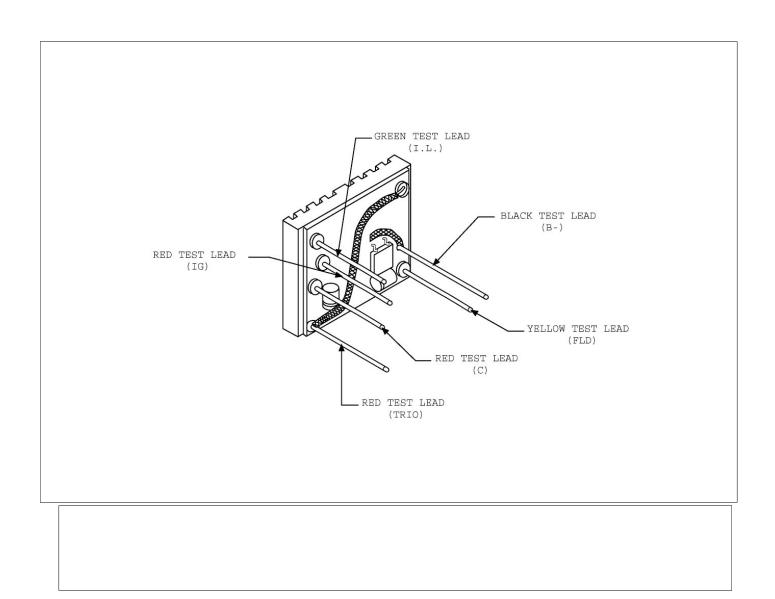
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI267	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from the wire marked as "C" and connect a black test lead to the "C" terminal. Field lamp should still blink and the meter will indicate approximately 12.5v.



Page 327 Product Group TRI-15 Revision: Date: 1/6/2021

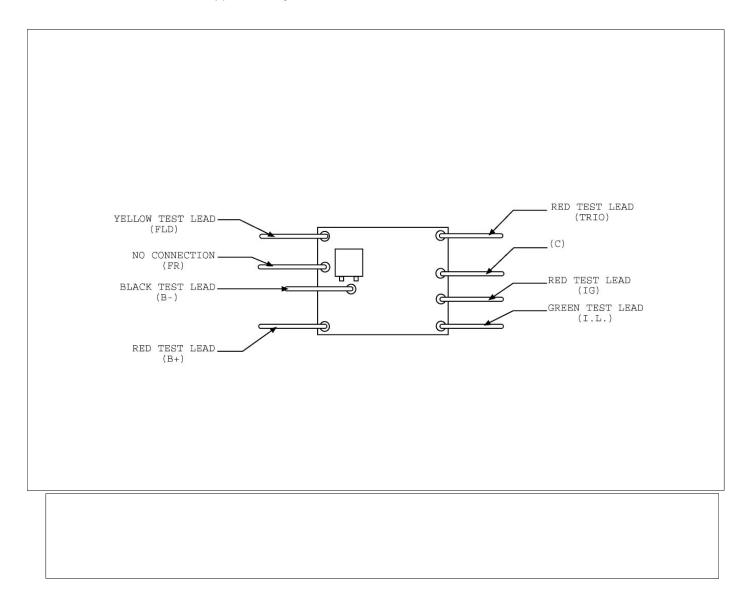
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI839	Α	12	14.4				
TRI273	Α	12	14.4				
TRI835	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Remove red test lead from terminal marked "TRIO". Field lamp should still blink, the meter will indicate the set point voltage and the indicator light will turn on.
- 2. Reconnect red test to "TRIO". Connector a black test lead to terminal marked "C". Field lamp should still blink and the meter will indicate approximately 12.5v.



Page 328 Product Group TRI-16 Revision: Date: 1/6/2021

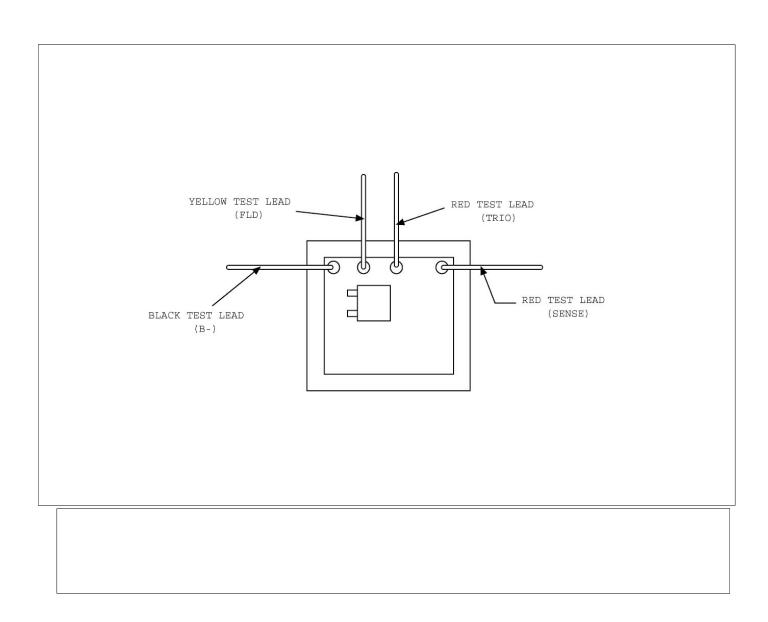
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI423	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "TRIO". Field lamp should still blink and the meter will indicate approximately 15.5v.



Page 329 Product Group TRI-17 Revision: Date : <u>1/6/2021</u>

for TE REPAIR CIRCUIT type regulators

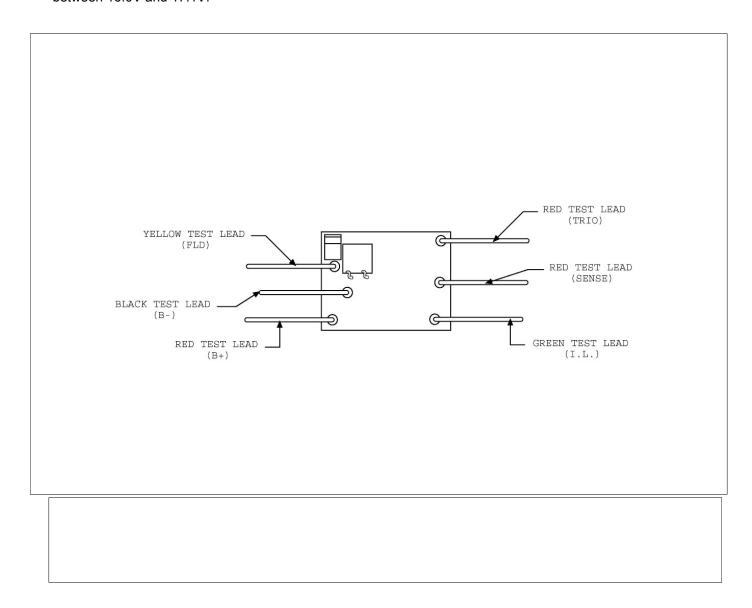
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI271	Α	12	14.5				
TRI276	Α	12	14.4				
TRI836	Α	12	14.4				
TRI837	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove the red test lead from the wire marked as "SENSE". The field light will still blink the meter will indicate from 15V. to 16V, and the indicator lamp will remain on.

Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 330 Product Group TRI-19 Revision: 4/26/1905 Date: 1/6/2021

for TE REPAIR CIRCUIT type regulators

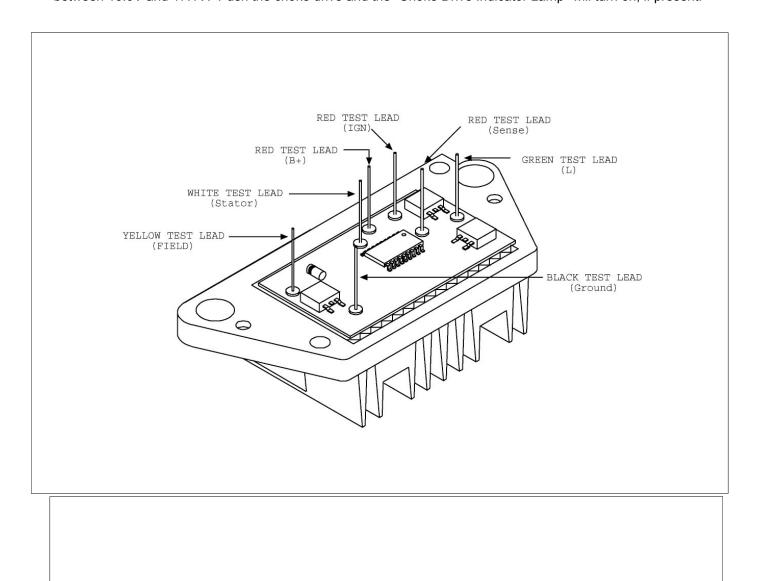
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI257	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white lead from terminal marked "stator". The indicator light will turn on and the meter will indicate approximately 12 volts and the field lamp will remain fully on.

<u>Using VRC2010</u>: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.

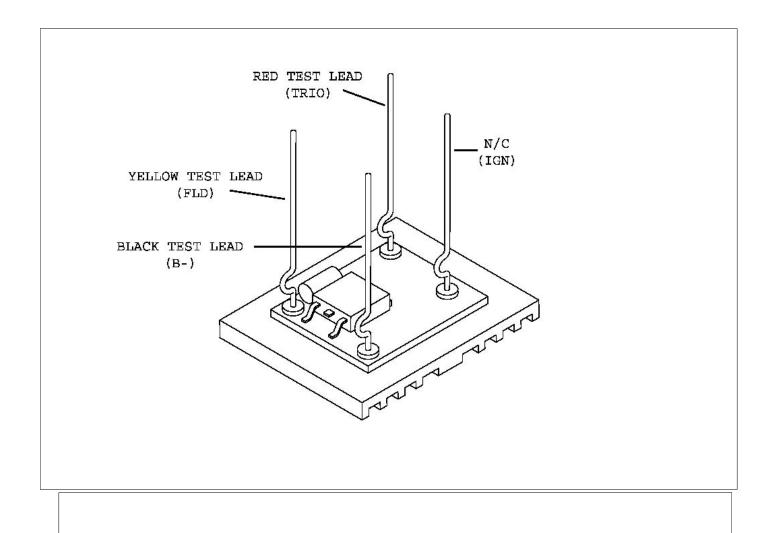


Page 331 Product Group TRI-20 Revision: 4/26/1905 Date: 1/6/2021

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI232	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



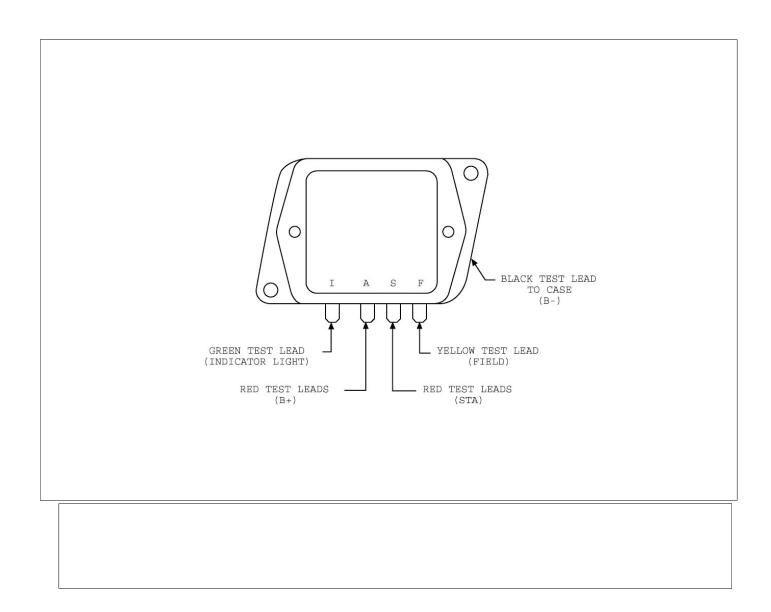
Page 332 Product Group TRI-21 Revision: 10/20/1904 Date : <u>1/6/2021</u>

		for	FORD	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F8512	В	12	14.2				
F8512M	В	12	14.3				
F8512S	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator light should turn on meter will still indicate set point voltage. Removal of test lead from "S" and "I" terminal will result in the field lamp turning off and the meter reading 12v. On mechanical type on due to the regulator's internal circuitry. Limit this test to a short time.



Page 333 Product Group F-02 Revision: Date: 1/6/2021

MITSUBISHI

for

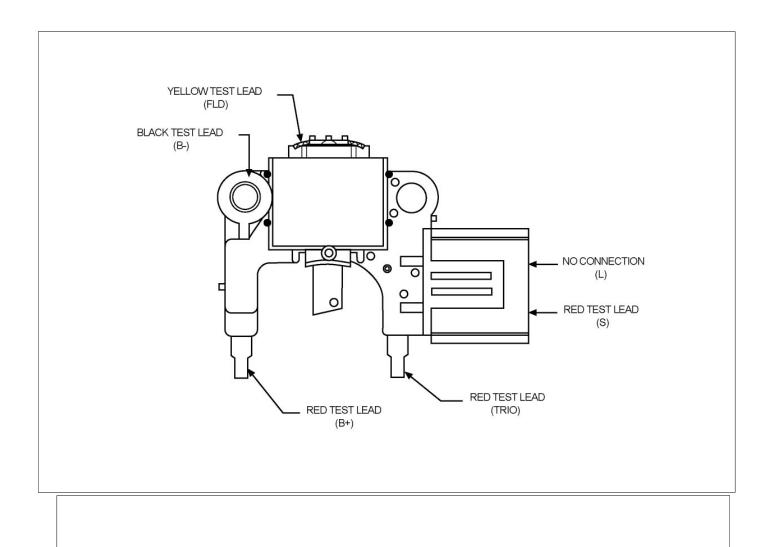
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM284	Α	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Field lamp will still blink, and the meter will indicate approximately 15.5V.



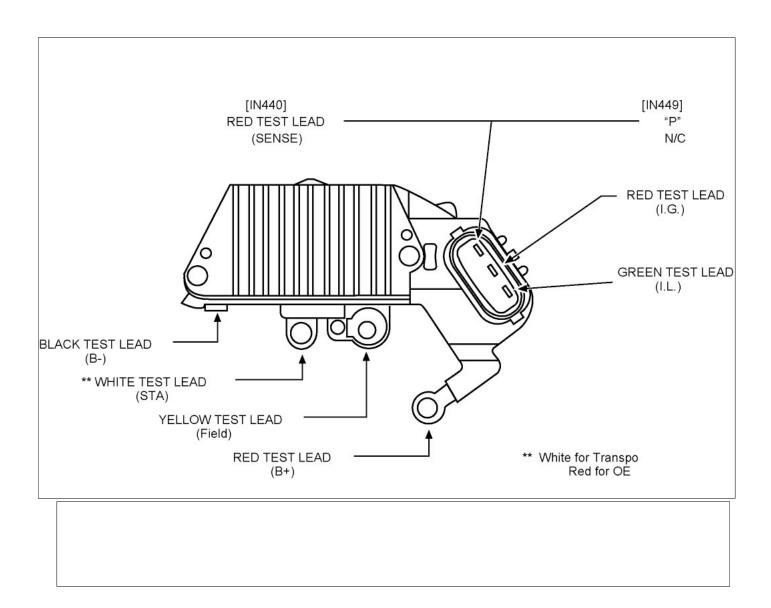
Page 334 Product Group IM-25 Revision: Date: 1/6/2021

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN449	Α	12	14.5				
IN440	Α	12	14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.

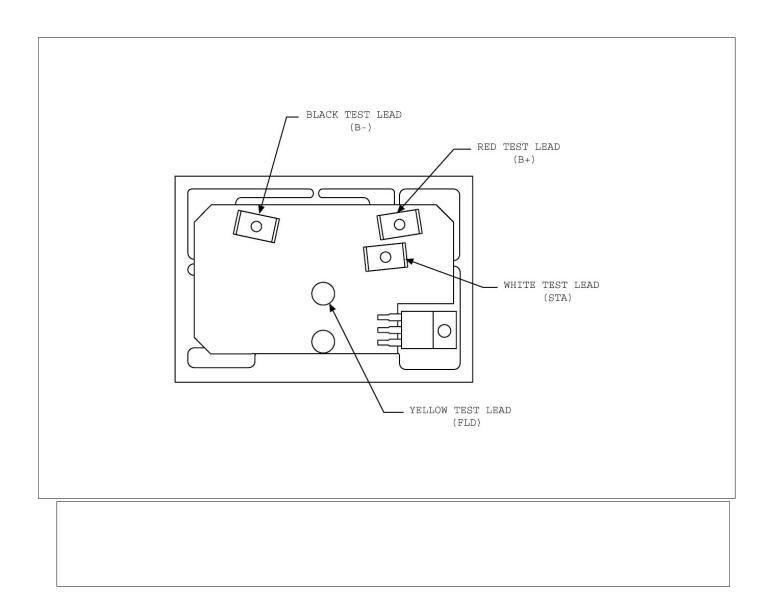


Page 335 Product Group IN-33 Revision: 4/26/1905 Date: 1/6/2021

for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L1666280	Α	12	13.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 336 Product Group L-09 Revision: Date: <u>1/6/2021</u>

type regulators

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		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM345	Α	12	14.3				

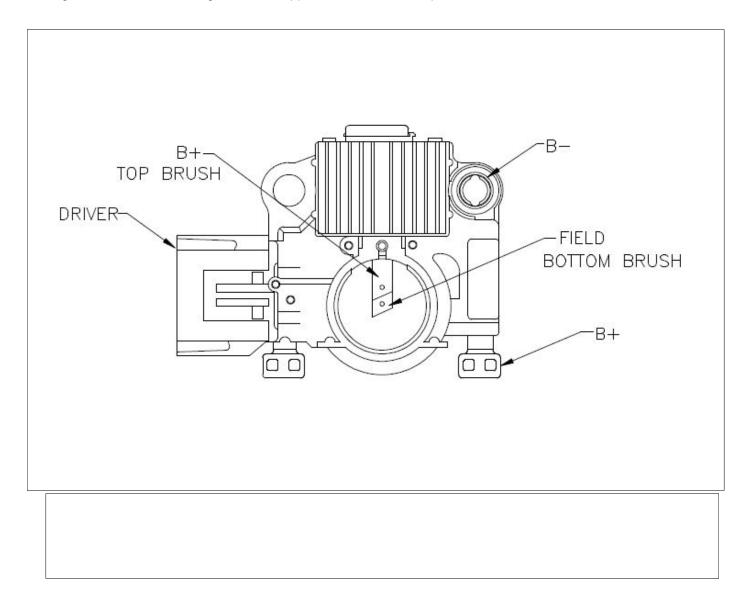
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Caution - Note: Connect DRIVER to tester "PD"

• IM345 has D-P terminal functions: D=Drive, P=Phase.

for

• D-P Type Regulators are immediately damaged if tested using procedure typical to common S-L type regulators, where B+ Voltage would be applied to the D terminal position.



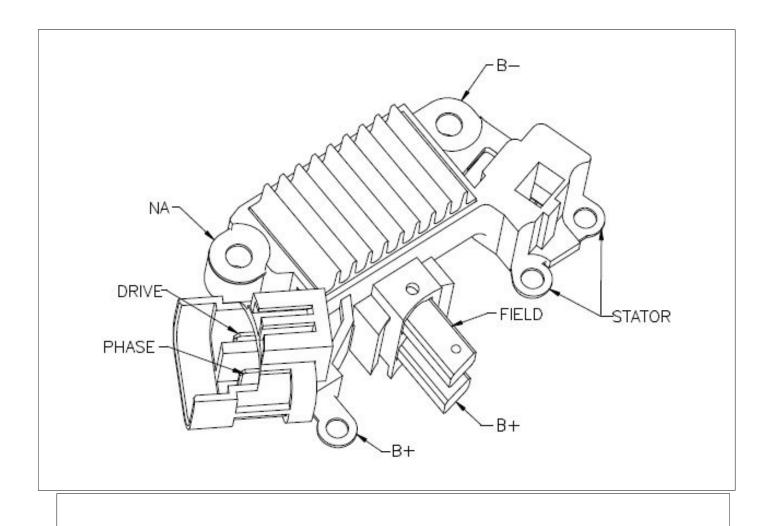
Page 337 Product Group IM-52 Revision: 10/22/1907 Date: <u>1/6/2021</u>

		for	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH758	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Caution - Note: • IH758 has D-P terminal functions: D=Drive, P=Phase.

• D-P Type Regulators are immediately damaged if tested using procedure typical to common S-L type regulators, where B+ Voltage would be applied to the D terminal position.



Page 338 Product Group IH-41 Revision: 10/22/1907 Date : <u>1/6/2021</u>

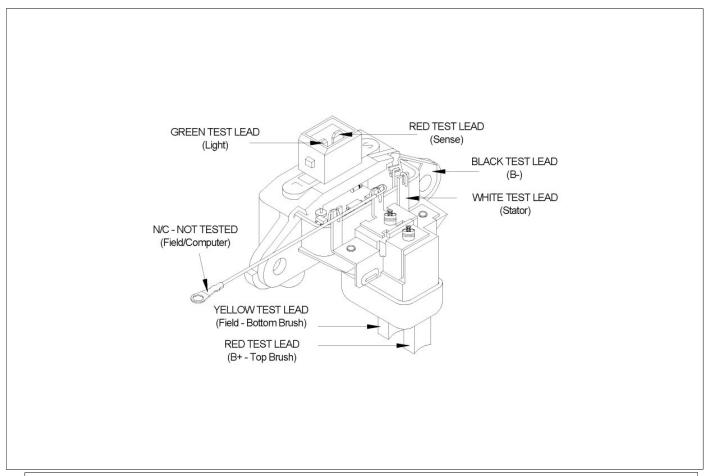
		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB392BG	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "STA". Field lamp remain fully on and the meter will indicate approximately 12V. Reconnect the white test lead. Remove red test lead from the terminal marked "S", field lamp will turn off, the indicator light will turn on and the meter will indicate 12V.

Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



NOTE: Connect B- (black) test lead last, already having turned on the tester "ON" switch.

- 20 ampere 60 volt field transistor voltage saturation test @ 5 amps 13.50 volts = 150 to 250 milli-volts
- Undervoltage Lamp Indication = 8.50 volts to 10.00 volts
- Overvoltage Lamp Indication = 16.00 volts to 17.10 volts
- Current Leakage = 2.0 milli-amps

Page 339 Product Group IB-28 Revision: 4/26/1905 Date: 1/6/2021

DELCO

for

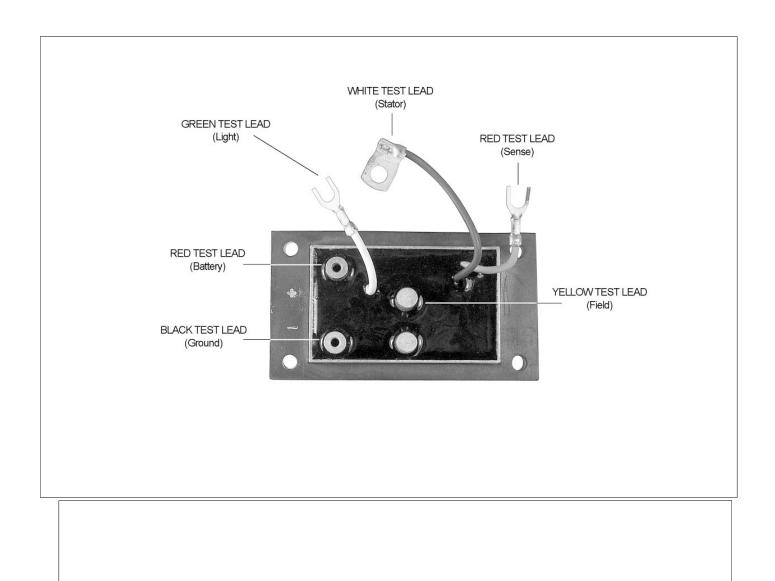
				, po . og a. a.c.	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D3101	В	12	14.2				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

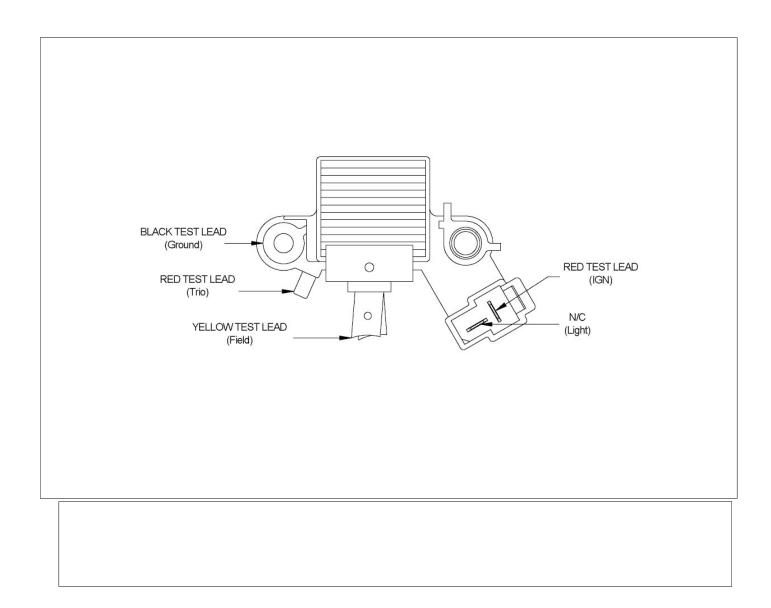
Remove WHITE TEST LEAD from terminal marked "STATOR", 12 volt Lamp will turn on and Field light will turn off.



Page 340 Product Group D-36 Revision: Date: 1/6/2021

		tor	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH258	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 341 Product Group IH-35 Revision: Date: 1/6/2021

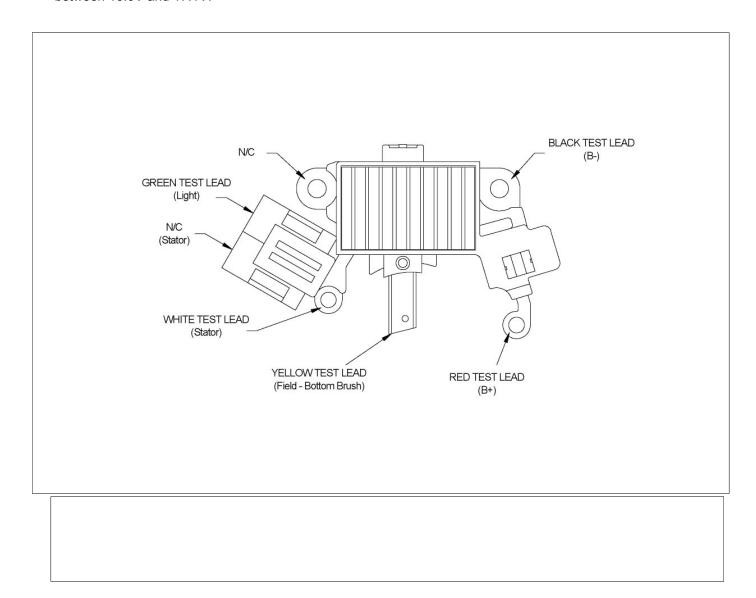
		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH769	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white lead from stator; 12 volt lamp will come on and voltage will read 12.0 volts. Field lamp will be on.

<u>Using VRC2010</u>: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



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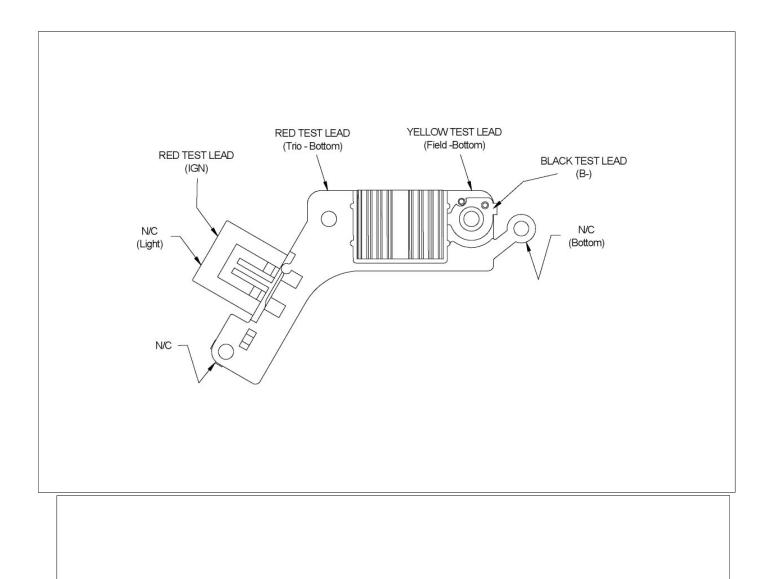
type regulators

MITSUBISHI

for

		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM843	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 343 Product Group IM-53 Revision: 9/25/2002 Date : <u>1/6/2021</u>

MITSUBISHI

for

		_					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM369	Α	12	14.3				

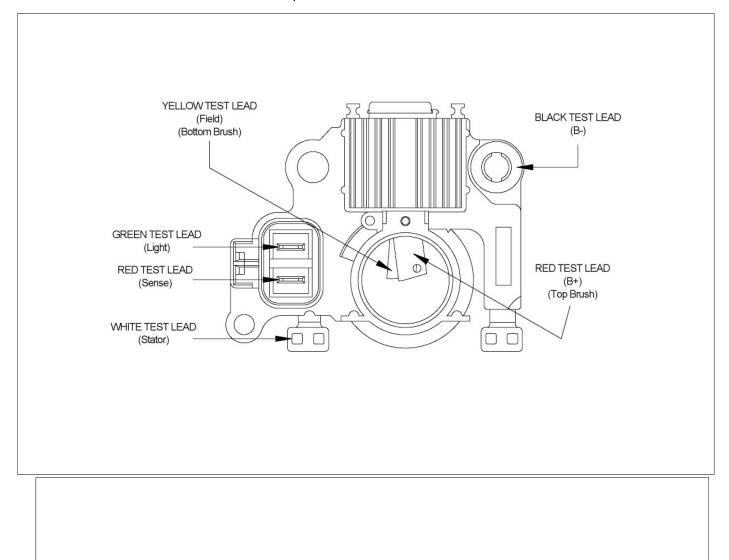
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator" field and lamp light comes on. Remove green test lead from terminal marked "Light" field and lamp light goes off.

<u>Using VRC2010</u>: Connect external 3 Watt Lamp from Tester Battery Positive to the Voltage Regulator lamp connection. Do not use the VRC2010 Lamp connection.



Page 344 Product Group IM-54 Revision: 4/26/1905 Date: <u>1/6/2021</u>

type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM851	Α	12	14.5				

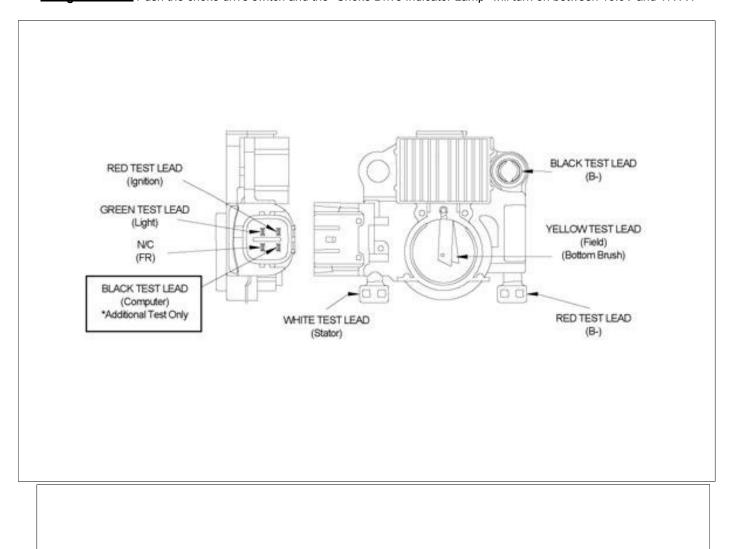
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white test lead from terminal marked "Stator" field and lamp light comes on and voltage will indicate 12 volts.

Remove green test lead from terminal marked "Lamp" and lamp light goes off. Remove red test lead from terminal marked "Ignition" and field light goes off.

* Connect black lead to "C" computer terminal and field lamp will stay on and voltage will read approximately 12.7 volts **Using VRC2010:** Push the choke drive switch and the "Choke Drive Indicator Lamp" will turn on between 16.0V and 17.1V.



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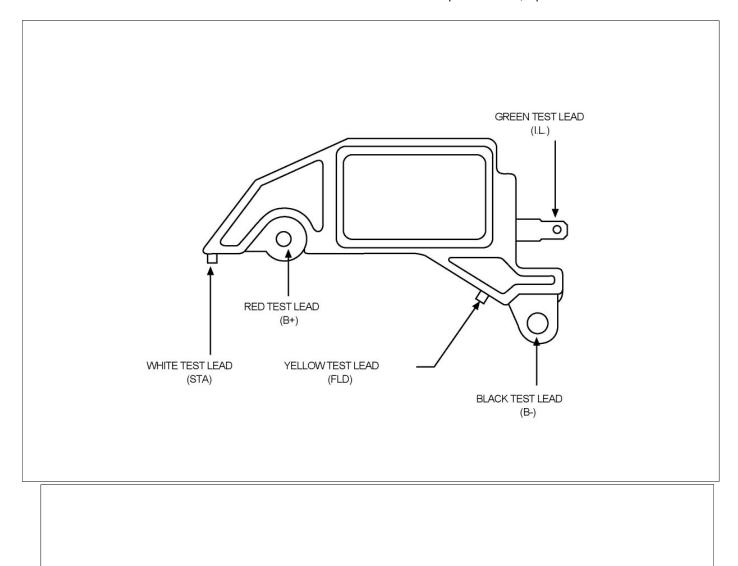
		тог	DELCO	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
D432	В	12	14.7						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove the white test lead from terminal marked "STATOR". The indicator light will turn on, field lamp will stay on and meter will indicate approximately 12V. Disconnect the test lead from "L" terminal. Regulator will turn off and the meter will indicate 12V.

<u>Using VRC2010</u>: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



Page 346 Product Group D-24 Revision: 4/26/1905 Date: 1/6/2021

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN219	Α	12	14.5	IN225	Α	12	14.5
IN221	Α	12	14.5	IN227	Α	12	14.5
IN222	Α	12	14.5	IN251	Α	12	14.5
IN224	А	12	14.5	IN252	Α	12	14.5

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.

3.1 Remove test lead from terminal marked "STATOR".

- On the Original Equipment "C" and "D" model regulators, voltage should rise above 16 volts and the indicator light will turn on.
- On Transpo "D" model regulators, Indicator light should turn on and the meter will still indicate set point voltage.
- On "C" model regulators no change will occur

3.2 On IN222, IN224, IN252 and IN431 (C model) regulators.

Remove red test lead from the terminal marked "C". Field lamp should still blink and the meter will indicate set point voltage. Connect black test lead to terminal marked "C". Field lamp should still blink and the meter will indicate 12.3V.

3.3 On all above parts except Transpo "C" models.

Remove red test lead from terminal marked "IG:. Field lamp should turn off and the meter will indicate low voltage.

NOTE on Stator Connection:

Transpo "D" model regulators (Black test lead)
- IN219, IN221, IN225, IN251, IN253, IN429
Transpo "C" model regulators (White test lead)
- IN222, IN224, IN252, IN431
O.E.M. (Red test lead)

REFER TO NEXT PAGE FOR REGULATOR'S DIAGRAM

Page 347 Product Group IN-17 Revision: 4/26/1905 Date : 1/6/2021

NIPPONDENSO

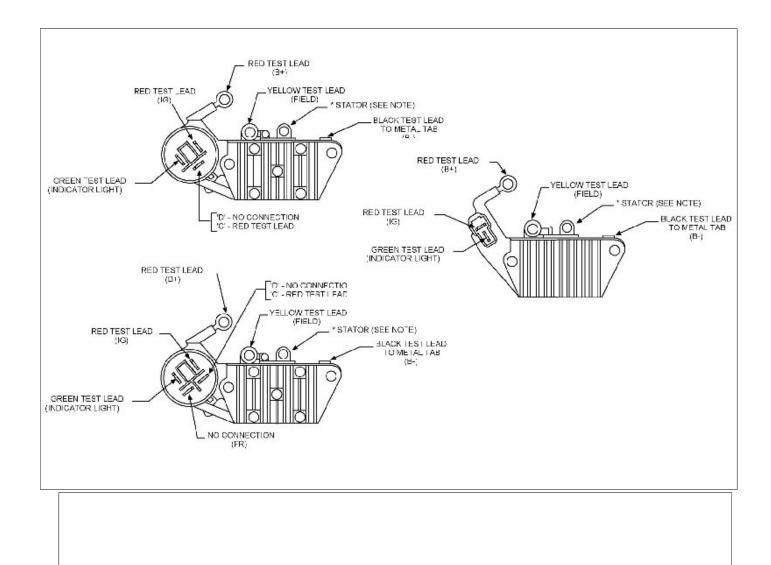
PART NO. **VOLT SET POINT** FLD **VOLT SET POINT** PART NO. FLD **IN253** Α 12 14.5 **IN431** Α 12 14.5 **IN254 IN435** Α 12 14.5 Α 12 14.5 IN255 12 14.5 IN254CN 12 Α Α 14.5 IN255CN **IN429** Α 12 Α 12 14.5 14.5

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



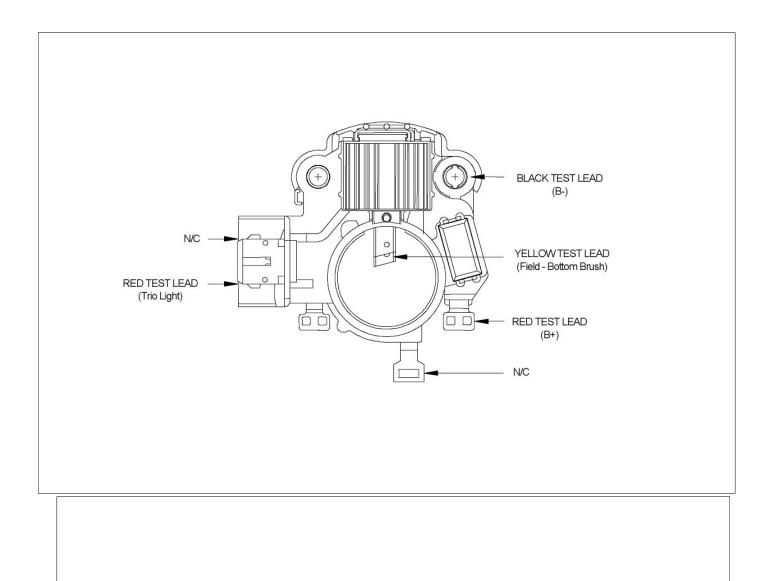
Page 348 Product Group IN-18 Revision: 4/26/1905 Date: 1/6/2021

type regulators

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PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM757	Α	12	14.70				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 349 Product Group IM-56 Revision: 7/24/2002 Date : <u>1/6/2021</u>

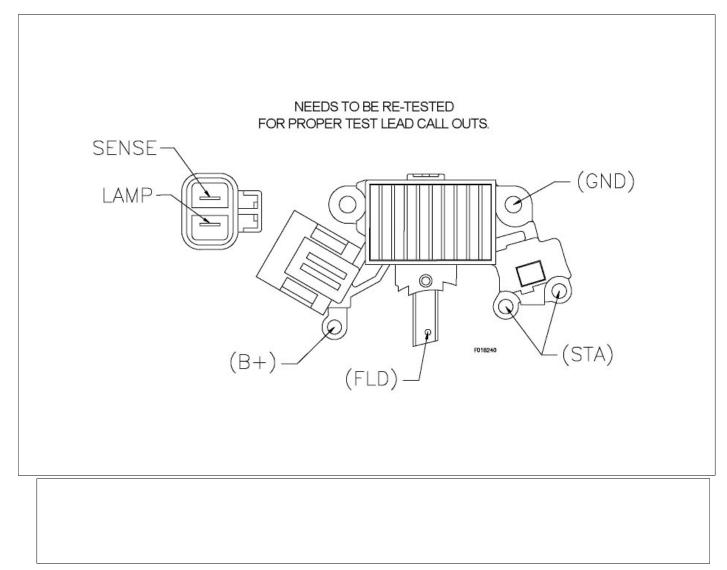
		for HITACHI		type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH744	Α	12.0	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove sense lead and voltage rises to approximately 15.5 volts, reconnect sense lead. Remove white test lead from stator, 12 volt lamp comes on, voltage drops to 12 volts and field LED stays on (soft start).

Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



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turna ramulatara

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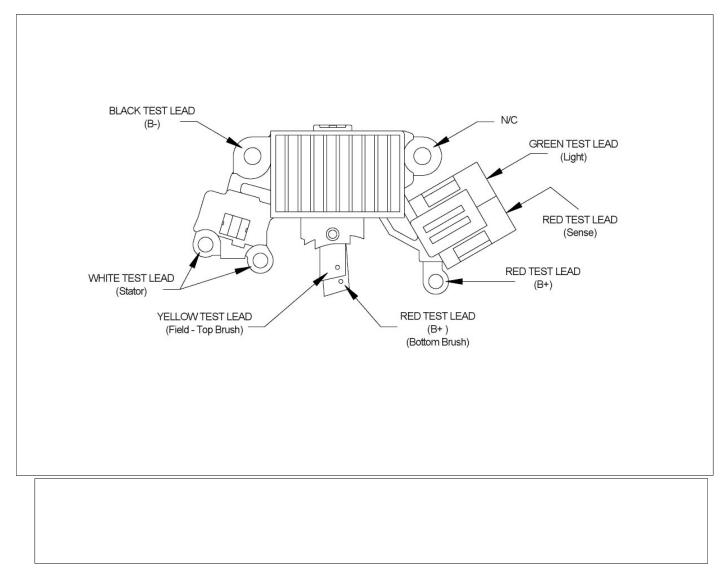
		тог	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH738	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove sense lead and voltage rises to approximately 15.5 volts, reconnect sense lead. Remove white test lead from stator, 12 volt lamp comes on, voltage drops to 12 volts and field LED stays on (soft start).

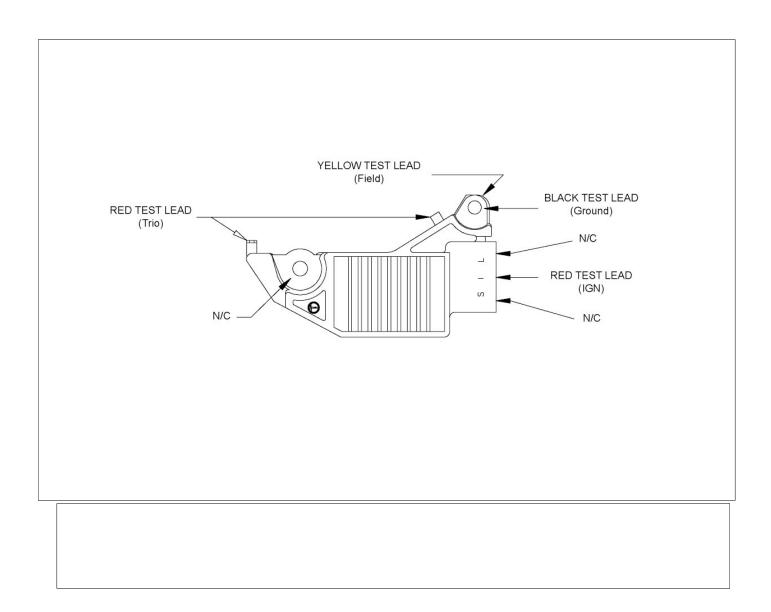
Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



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		for DELCO		type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D404	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 352 Product Group D-38 Revision: Date: <u>1/6/2021</u>

type regulators

MITSUBISHI

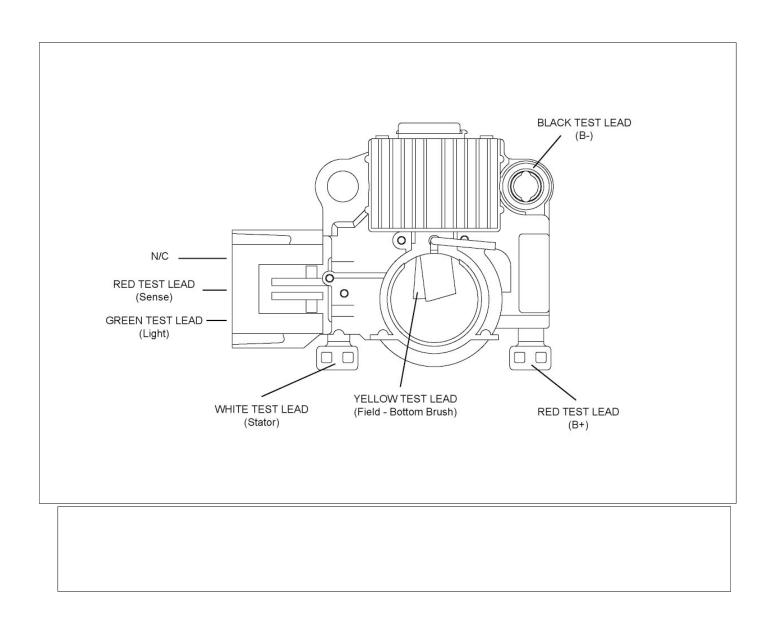
for

				,poog			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM848	А	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove sense lead and voltage rises to approximately 15.4 volts, reconnect sense lead. Remove white test lead from stator, 12 volt lamp comes on, voltage drops to 12 volts and field LED stays on (soft start). Remove Light lead field light and Lamp light turn off.



Page 353 Product Group IM-57 Revision: Date: 1/6/2021

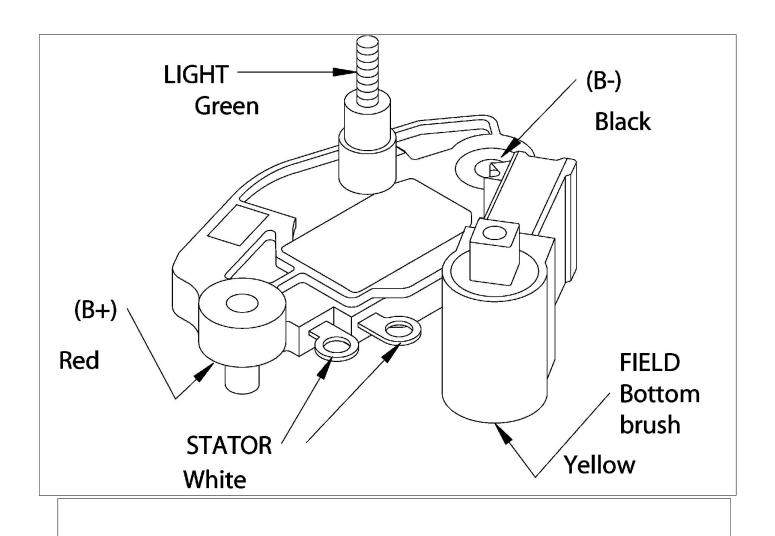
for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M519	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove "White" lead from "Stator", meter will read 12.0 volts field light will come on and 12 volt lamp will come on. Remove "Lamp" terminal and field light will go out and lamp light will go out.



Page 354 Product Group M-15 Revision: 7/28/1904 Date: 1/6/2021

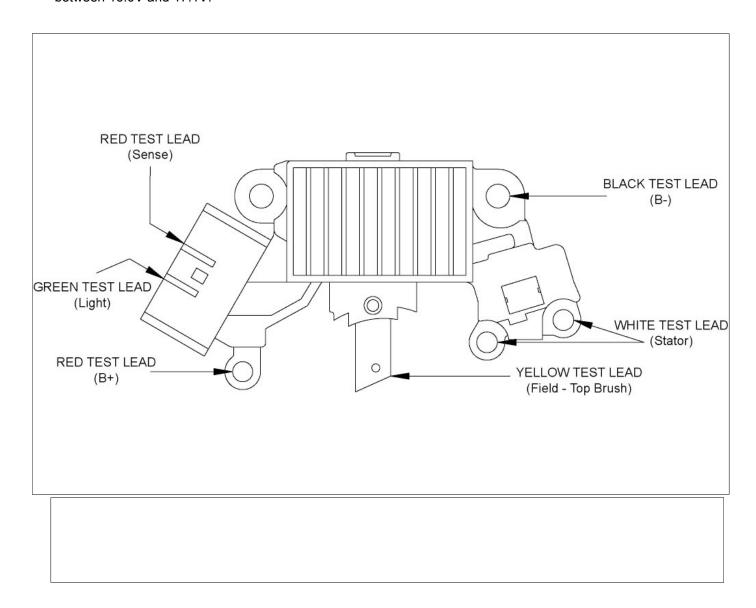
		for HITACHI		type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH774	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove white lead from stator, field circuit lamp will stay on. 12V lamp will come on and voltage will drop to 12V.

<u>Using VRC2010</u>: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 355 Product Group IH-39 Revision: 4/26/1905 Date: 1/6/2021

turna ramulatara

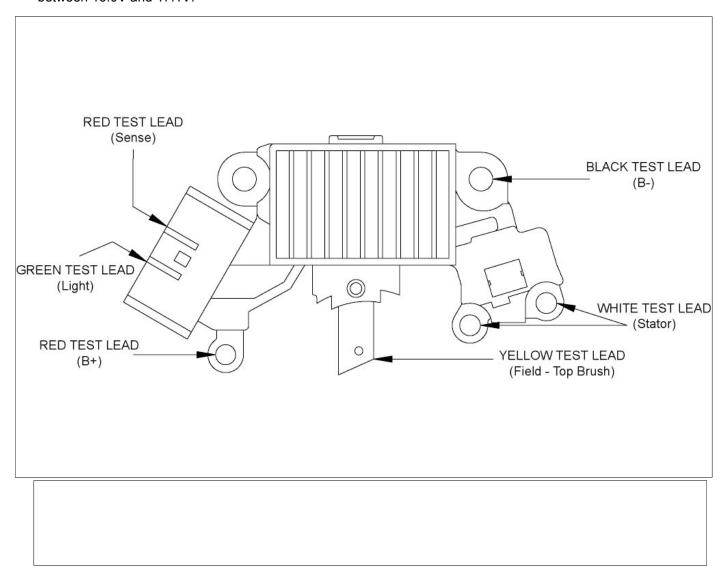
		10r	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH742	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove sense lead and voltage rises to approximately 15.5 volts, reconnect sense lead. Remove white test lead from stator, voltage remains the same and lamp comes on.

Using VRC2010: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 356 Product Group IH-40 Revision: 4/26/1905 Date: 1/6/2021

MITSUBISHI type regulators

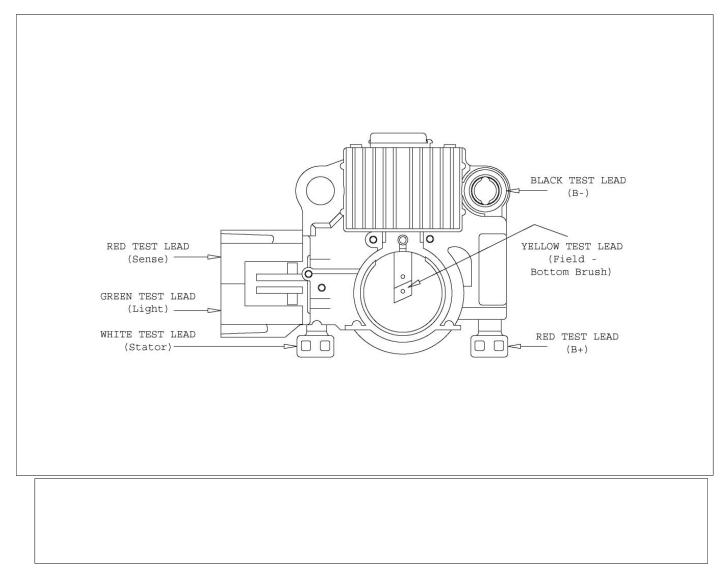
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM350	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove sense lead and voltage rises to approximately 15.4 volts, reconnect sense lead. Remove white test lead from stator, 12 volt lamp comes on, voltage drops to 12 volts and field LED stays on (soft start).

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 357 Product Group IM-58 Revision: 4/26/1905 Date: 1/6/2021

type regulators

MITSUBISHI

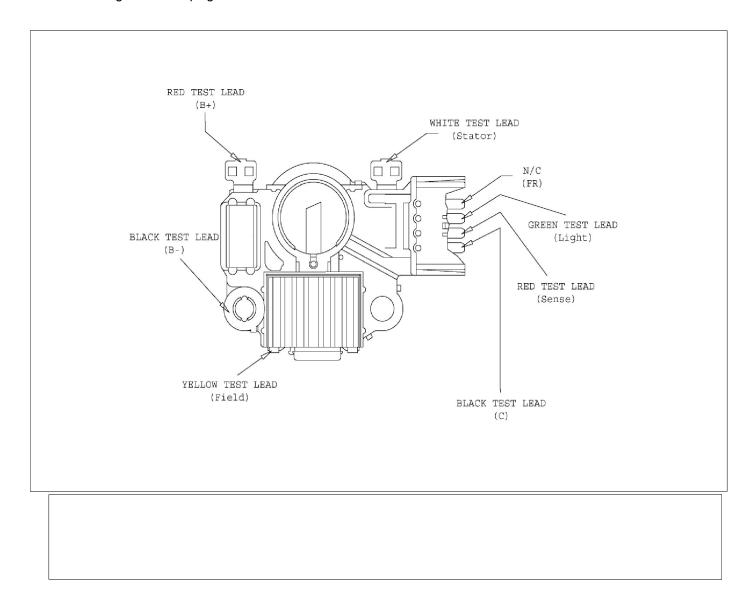
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM341	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove sense lead and voltage rises to approximately 15.4 volts, reconnect sense lead. Connect C terminal of regulator to C terminal on tester, and press Computer button, Voltage drops to 13.1 volts. Remove white test lead from stator, 12 volt lamp comes on, voltage drops to 12 volts and field LED stays on (soft start). Remove Light lead field light and Lamp light turn off.



Page 358 Product Group IM-59 Revision: 9/28/1904 Date: 1/6/2021

NIPPONDENSO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN215	Α	12	14.6				
IN452	Α	12	14.5				

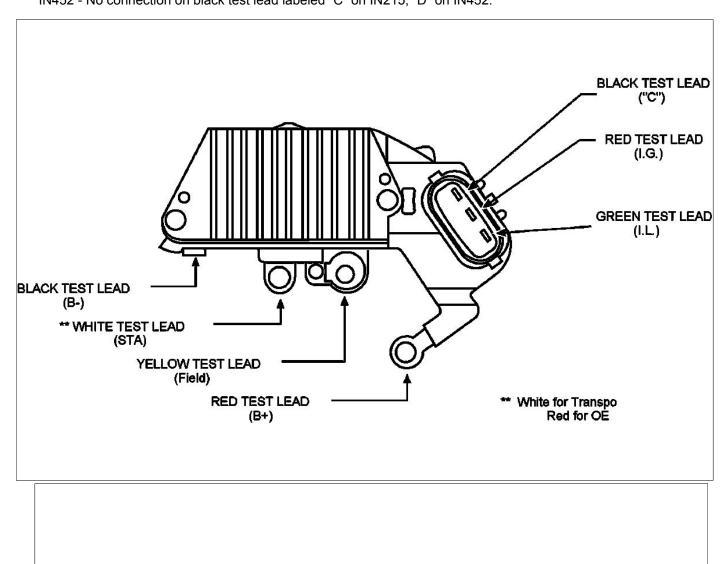
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect C terminal of regulator to C terminal on tester, and press Computer button, Voltage will read 12.6V. Remove white test lead to confirm charge indicator light function.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present. IN452 - No connection on black test lead labeled "C" on IN215, "D" on IN452.



Page 359 Product Group IN-38 Revision: 12/29/1906 Date: <u>1/6/2021</u>

type regulators

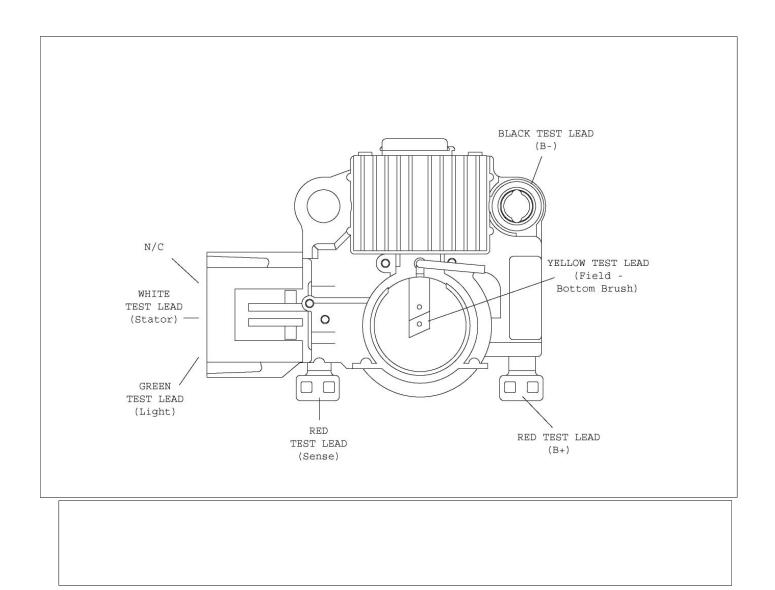
MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM358	A	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

No additional test required.



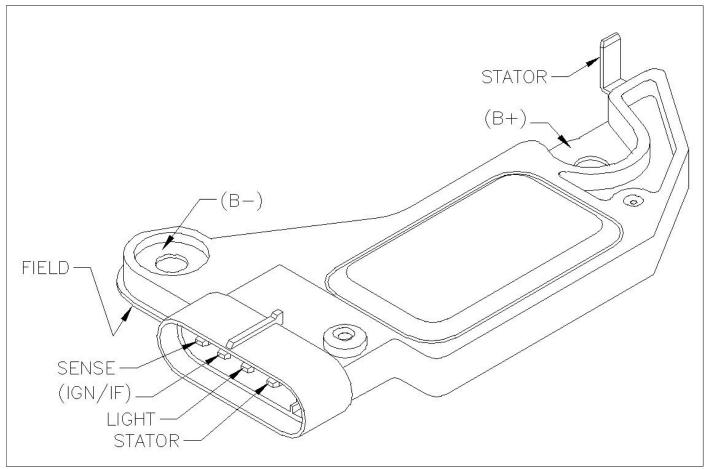
Page 360 Product Group IM-60 Revision: 5/2/1905 Date : <u>1/6/2021</u>

		τοr	DELCO	type regulate			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D751	Α	12	15.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

IMPORTANT ... Tester FIELD LOAD Switch Must Be Set to 0.5 AMP!

Remove "White" test lead from terminal marked "Stator". The indicator light will turn on, field lamp will stay on and the meter will indicate approximately 12 volts. Remove red test lead from Sense and light will come on. Remove "Green" test lead, lamp will go off and field lamp will go off.



IMPORTANT ... Tester FIELD LOAD Switch Must Be Set to 0.5 AMP!

Page 361 Product Group D-40 Revision: 4/7/2008 Date : 1/6/2021

MITSUBISHI

for

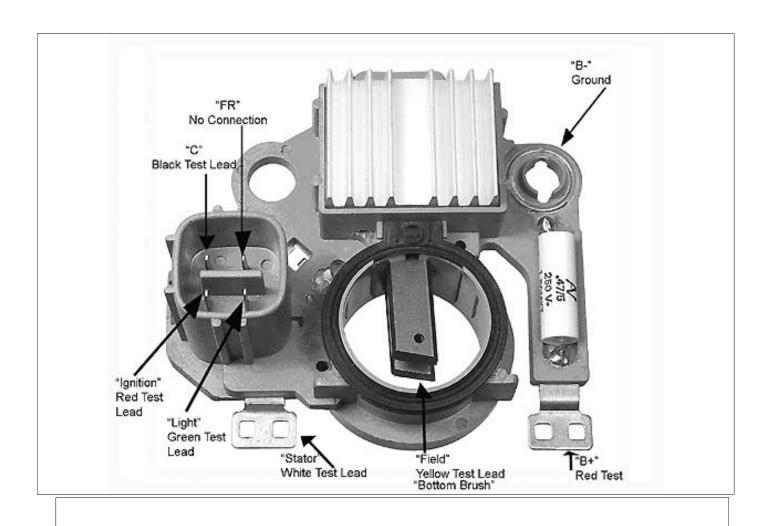
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM853	A	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

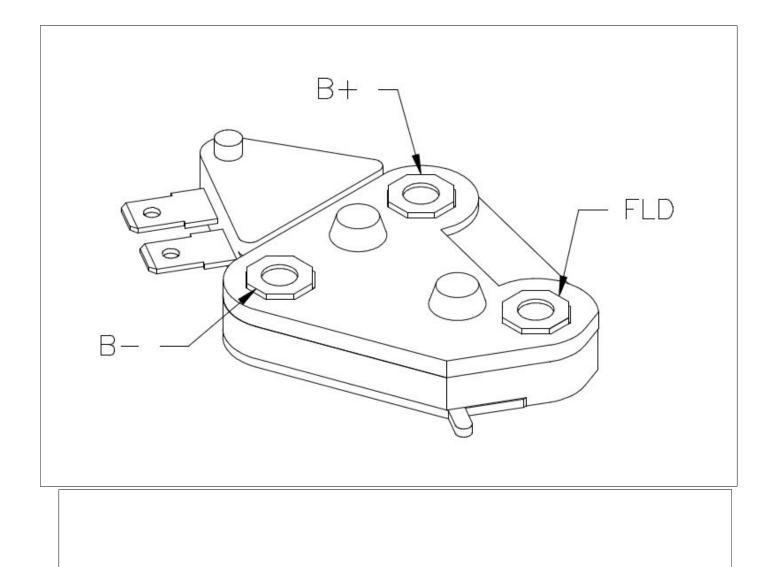
Remove white test lead from terminal marked "Stator" field, lamp light comes on and Voltage will incate 12 Volts. Remove green test lead from terminal marked "Lamp" and lamp light goes off. Remove red test lead from terminal marked "Ignition" and the field light goes off.



Page 362 Product Group IM-61 Revision: 5/3/1905 Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D10SE132	Α	12	14.8				
D10SE138	Α	12	14.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

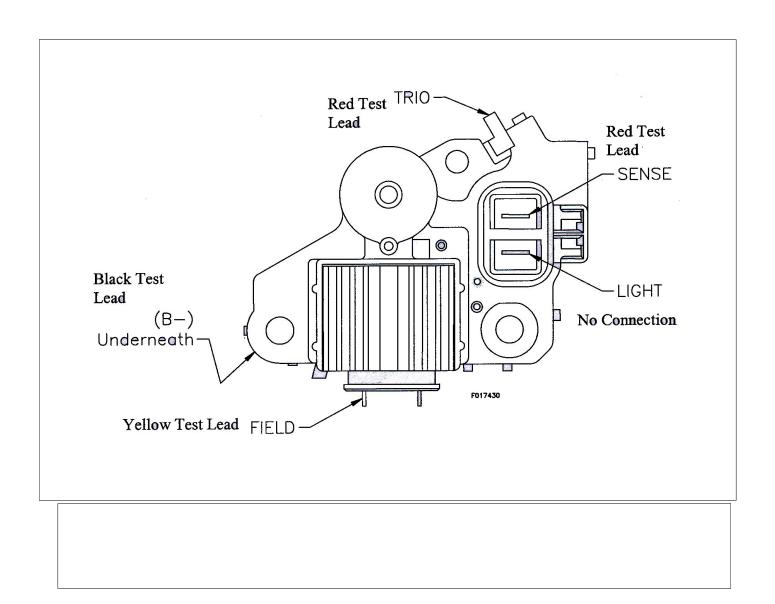


Page 363 Product Group D-39 Revision: 5/3/1905 Date : <u>1/6/2021</u>

		тог	MANDO	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY903	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Remove red test lead from "S" terminal. Voltage will go up to approximately 15.5V.



Page 364 Product Group IY-05 Revision: 5/3/1905 Date: <u>1/6/2021</u>

type regulators

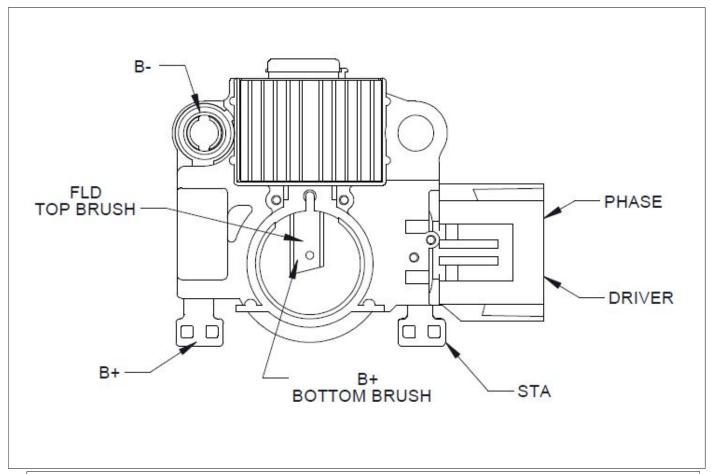
MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM465	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - IM465 has D-P terminal functions: D=Drive, P=Phase.

for

• D-P Type Regulators are immediately damaged if tested using procedure typical to common S-L type regulators, where B+ Voltage would be applied to the D terminal position.



• IM465 field brush is top / outer brush; (unlike many other Mitsubishi regulators).

Page 365 Product Group IM-62 Revision: 10/22/1907 Date: <u>1/6/2021</u>

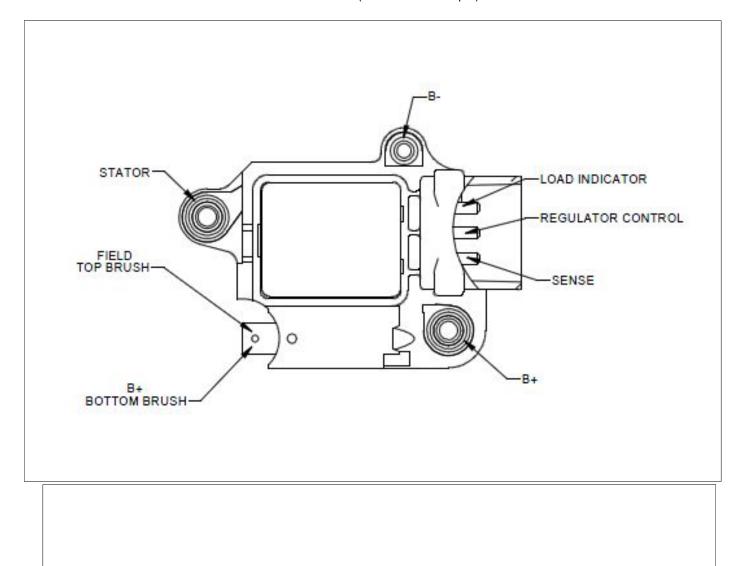
		tor	FORD	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F797	Α	12	*14.0				
F797HD	Α	12	*14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect RC terminal of regulator to RCV regulator on tester. Connect LI terminal of regulator to LI terminal on tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 12.9V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.8V.
- * The 14.0V Set Point indicated above is the 'default VSet' (no vehicle PCM input).



Page 366 Product Group F-13 Revision: 11/4/1905 Date: 1/6/2021

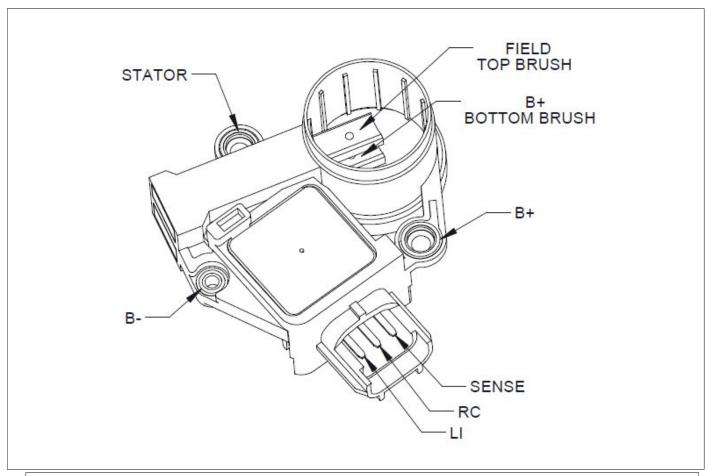
		for	FORD	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F601	Α	12	14.0*				
F601HD	Α	12	14.0*				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 12.9V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.8V.
- * The 14.0V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



- AS-RC-LI Terminals
- Regulation Voltage Controlled by Vehicle PCM

Page 367 Product Group F-12 Revision: 11/4/1905 Date: 1/6/2021

for MAGNETI-MARELLI type regulators

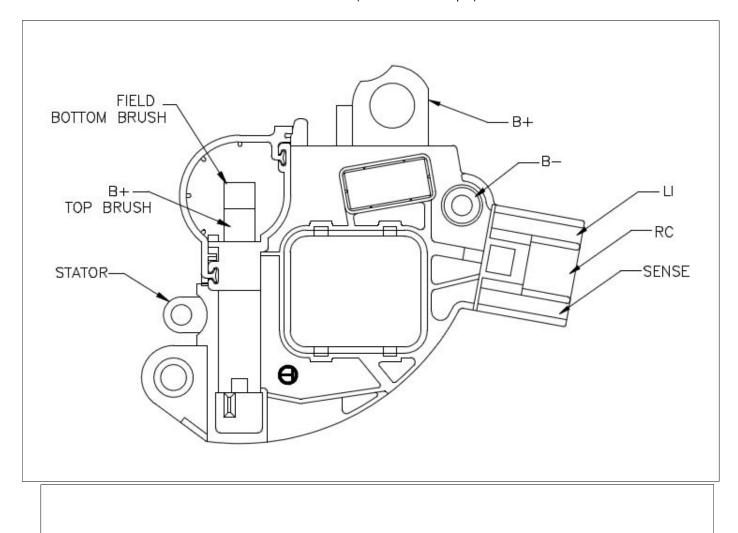
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX131	A	12	*14.0				
IX131HD	A	12	*14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect RC terminal of regulator to RCV terminal on tester. Connect LI terminal of regulator to LI terminal on tester

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 12.9V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.8V.
- * The 14.0V Set Point indicated above is the 'default VSet' (no vehicle PCM input).



Page 368 Product Group IX-08 Revision: 4/7/2008 Date : 1/6/2021

MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-251	Α	24	26.5				

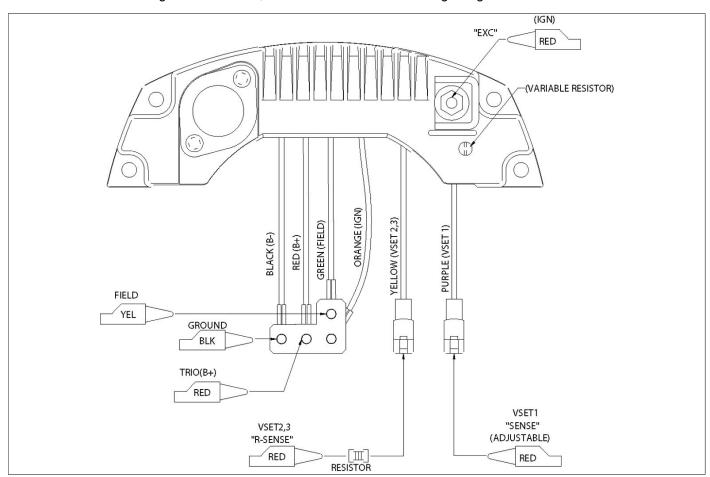
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

DO NOT CONNECT BOTH SENSE LEADS AT THE SAME TIME.

for

- VSET1: Disconnect Sense (Purple Lead Wire) ... Voltage Regulation 28.00V +/- 0.5V
- VSET2: Connect Regulator as shown; Use Resistor 5K Ohm... Voltage Regulation 26.5V +/- 0.5V



NOTE: THE VOLTAGE IS BELOW METER RANGE WITHOUT USING A RESISTOR ON YELLOW WIRE. REGULATOR IS FACTORY SET AT 26.5V. WE DO NOT RECOMMEND TURNING VARIABLE RESISTOR UNTIL INSTALLED ON VEHICLE.

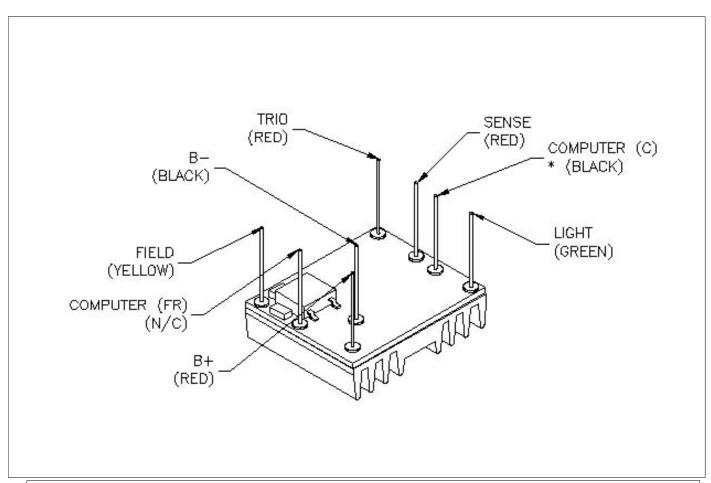
Page 369 Product Group M5-51 Revision: 11/8/1905 Date: 1/6/2021

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI845	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect Computer (C) to Black (B-), voltage will read 12.5 volts Remove Sense (Red), Lamp light will turn on.



* Connect only for Computer (C) function test

Page 370 Product Group TRI-22 Revision: 11/21/1905 Date: 1/6/2021

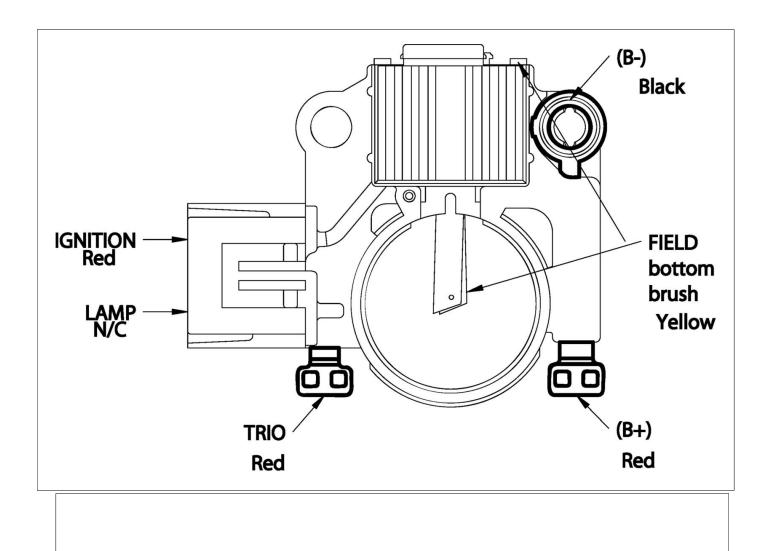
type regulators

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM846	Α	24	28.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 371 Product Group IM-63 Revision: 1/25/1906 Date : <u>1/6/2021</u>

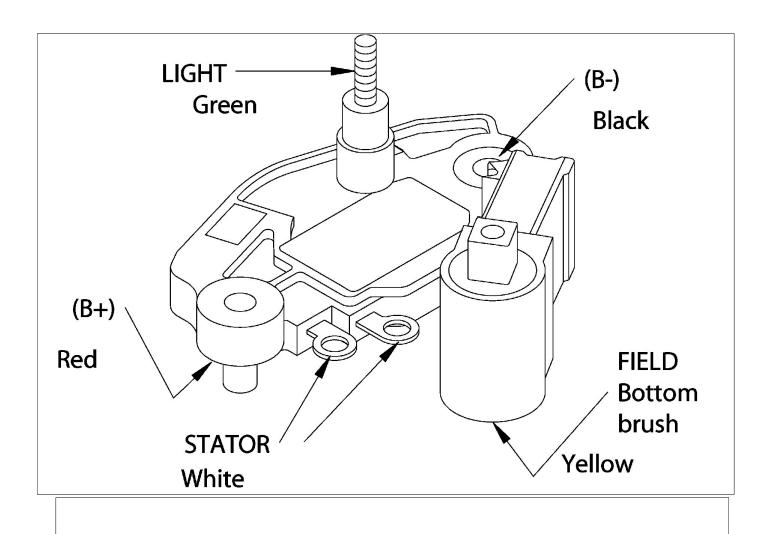
for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M517	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove "White" lead from "Stator", meter will read 12.0 volts field light will come on and 12 volt lamp will come on. Remove "Lamp" terminal and field light will go out and lamp light will go out.



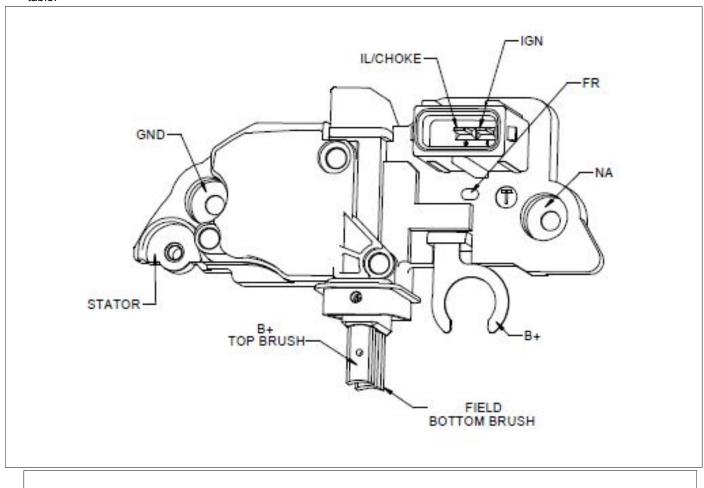
Page 372 Product Group M-16 Revision: 2/9/1906 Date: 1/6/2021

		for	воѕсн	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB251	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

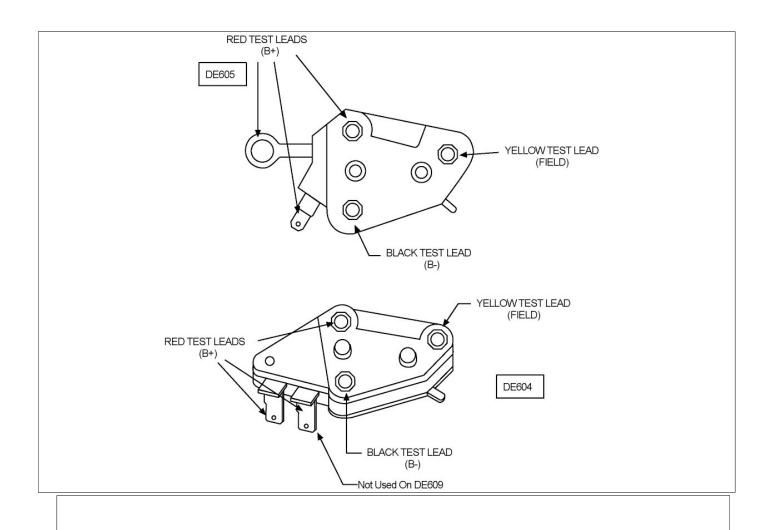
Power On: Field light should blink and meter will indicate approximately the set point voltage indicated in the above table. Remove white test lead from terminal marked "Stator" field light and "Lamp" light will come on and voltage will show 12 volts. Reconnect "Stator" wire; Remove green test lead from "Light" terminal, field light will continue to blink and meter will indicate approximately the set point voltage indicated in the above table. Reconnect "Lamp" wire; Remove ignition, field light will continue to blink, "Lamp" light will turn on and meter will indicate approximately the set point voltage indicated in the above table.



Page 373 Product Group IB-29 Revision: 3/13/2006 Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE604	Α	12	14.8				
DE605	Α	12	14.8				
DE609	Α	12	14.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 374 Product Group D-05 Revision: Date: <u>1/6/2021</u>

		TOT	DELCO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE708	В	12	14.8				

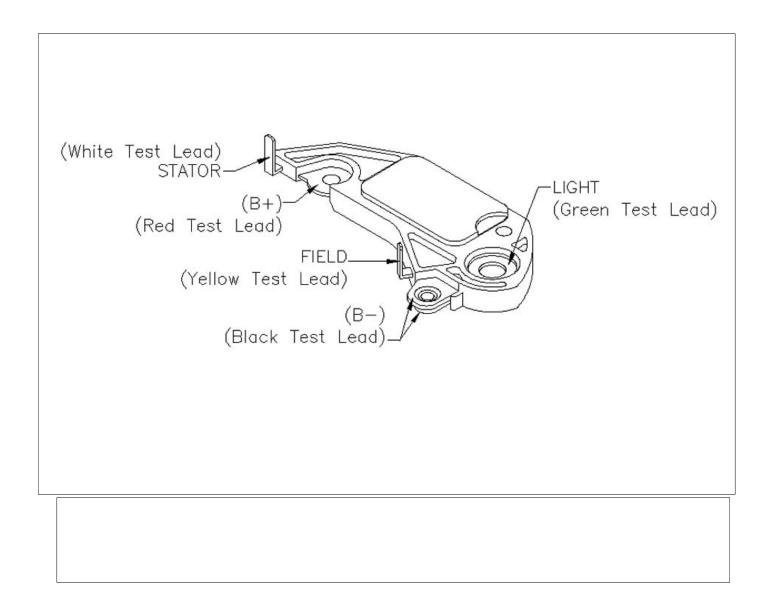
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove "White" test lead from "Stator" lamp will come on and voltage will go to 12 volts.

Reconnect "White" test Lead.

Remove "Green" Lead from "Light" terminal regulator will go to 12 volts and "Field" light will stop blinking.



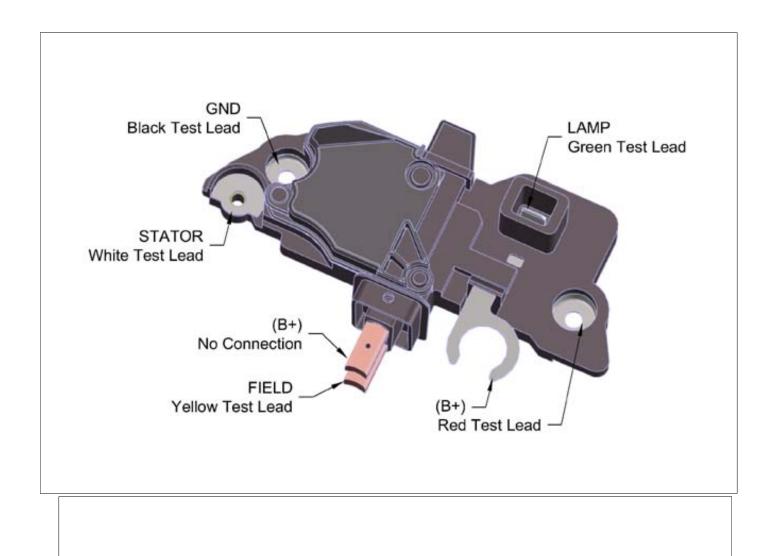
Page 375 Product Group D-41 Revision: 7/26/1906 Date: 1/6/2021

		for	возсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB229	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove White Test lead from Stator Terminal, Lamp will come on, display will show 12 volts and field light will stay on. Remove Green Test lead and field light will turn off.



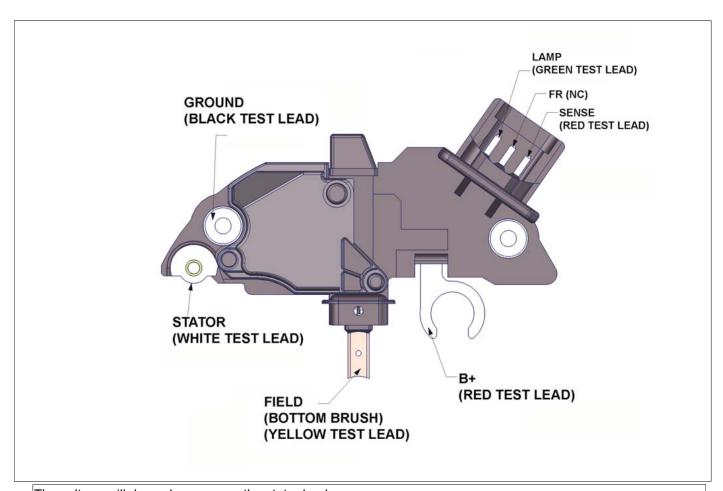
Page 376 Product Group IB-30 Revision: 8/11/2006 Date: 1/6/2021

		for	возсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB235	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove White Test Lead from Stator, Lamp Light comes on and Field Light stay on. Remove Green Test Lead from Light terminal, Lamp Light and Field Light turn off.



The voltage will drop when remove the stator lead.

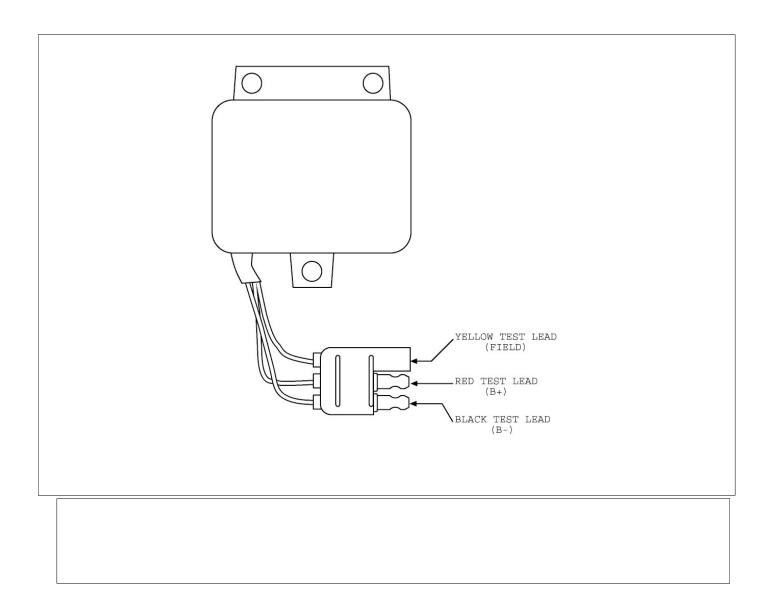
Page 377 Product Group IB-31 Revision: 8/25/2006 Date : 1/6/2021

MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-61A	В	24	28.0	M5-136A	В	12	14.2
M5-74A	В	32	39.2	M5-147A	В	12	15.00
M5-79A	В	12	14.2	M5-148A	В	24	28.0
M5-94A	В	32	38.4	M5-154A	В	12	14.2

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 378 Product Group M5-01 Revision: Date: <u>1/6/2021</u>

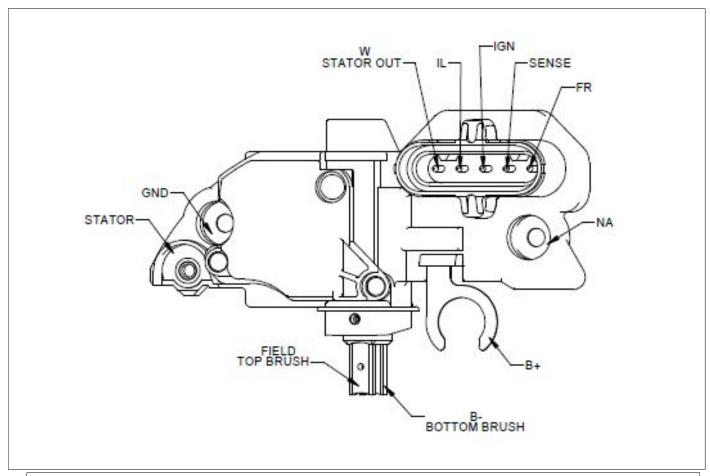
		for	BOSCH	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB298	В	24	28.3				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove White test Lead from Stator Light comes on. Reconnect Stator. Remove Green test Lead from Lamp, voltage remains same. Reconnect Light. Remove White test Lead from Stator, Light and Ignition voltage goes to 24 volts.



Note: IB298 without Loss of Sense Lamp Indication

• W-L-15-S-DFM Terminals • OE Compliant Circuit Protection & Functions... 'With Stator Start,

Page 379 Product Group IB-32 Revision: 11/6/2006 Date : 1/6/2021

SAWAFUJI

for

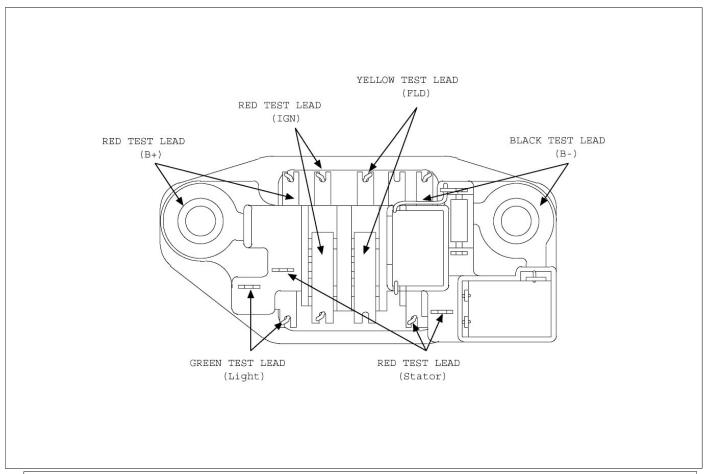
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IW700	Α	24	28.5				
IW701	Α	12	14.2				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from Stator terminal and light will come on; reconnect test lead to Stator terminal. Remove test lead from Ignition terminal, field light will stop flashing and voltage goes to default. (see note)



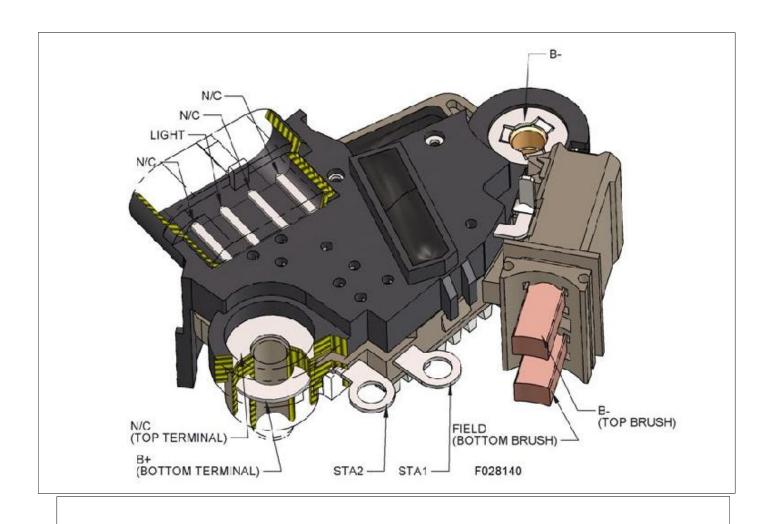
Note: Remove test lead from Ignition terminal, field light will stop flashing and voltage goes to 12V for (IW701) and 24V (IW700).

Page 380 Product Group IW-01 Revision: 10/29/1907 Date: <u>1/6/2021</u>

for VALEO / MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M515	В	12	14.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 381 Product Group M-17 Revision: Date: 1/6/2021

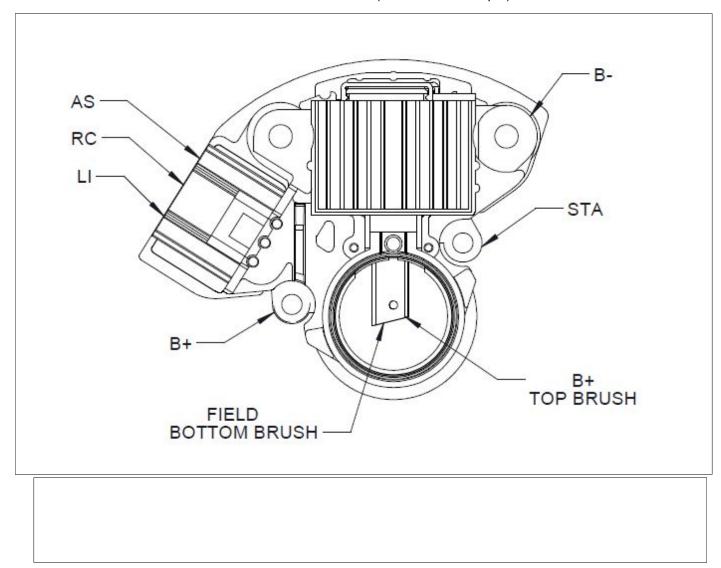
		for	MITSUBISHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM529	Α	12	*14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 12.9V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.8V.
- * The 14.0V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



Page 382 Product Group IM-64 Revision: Date: 1/6/2021

DELCO

				,,po.:oga.a.	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D3587	В	12	13.8*				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect RVC terminal of D3587 to RCV terminal on tester. Connect FR terminal of D3587 to LI terminal on tester.

2. Adjust Comm Voltage switch to position 13, Setpoint is 11.8V.

for

- 3. Adjust Comm Voltage switch to position 14, Setpoint is 13.3V.
- 4. Adjust Comm Voltage switch to position 15, Setpoint is 14.7V.

•	This i	s GM	l RCV t	tvne. 'F	Regulated	Voltage	Control'	system	regulator
				.,, .				-,	

Page 383 Product Group D-42 Revision: Date: 1/6/2021

[•] Regulated Voltage Control is provided by the vehicle's PCM / ECU or GBCM (Generator Battery Control Module) via a digital 'PWM' signal applied to the regulator L-terminal.

for NIPPONDENSO type regulators

VOLT SET POINT PART NO. FLD VOLT SET POINT

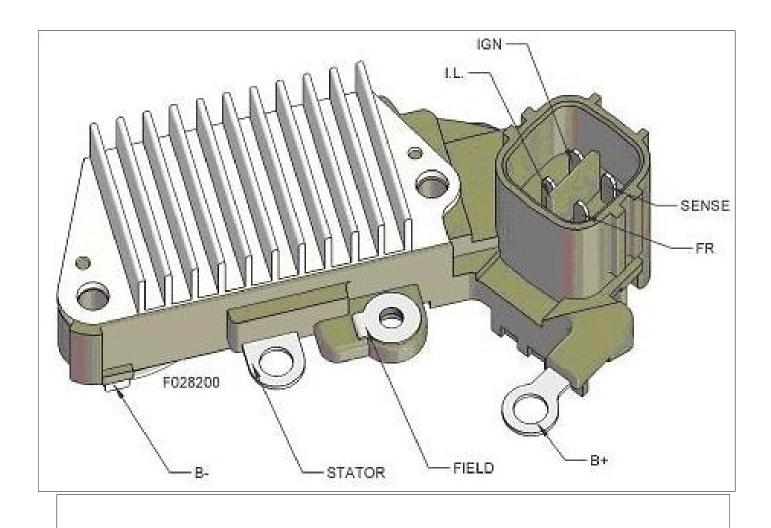
PART NO.	FLD	VOLI	SET POINT	PART NO.	FLD	VOLI	SET POINT
IN369	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

The FR terminal is not connected.

Disconnect the Sense terminal, the light should be ON, and the set point will read approximately 14.5 volts. Push the Over Voltage button, the set point should read approximately 17.3 volts.



Page 384 Product Group IN-57 Revision: Date: 1/6/2021

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN317	Α	12	14.35				

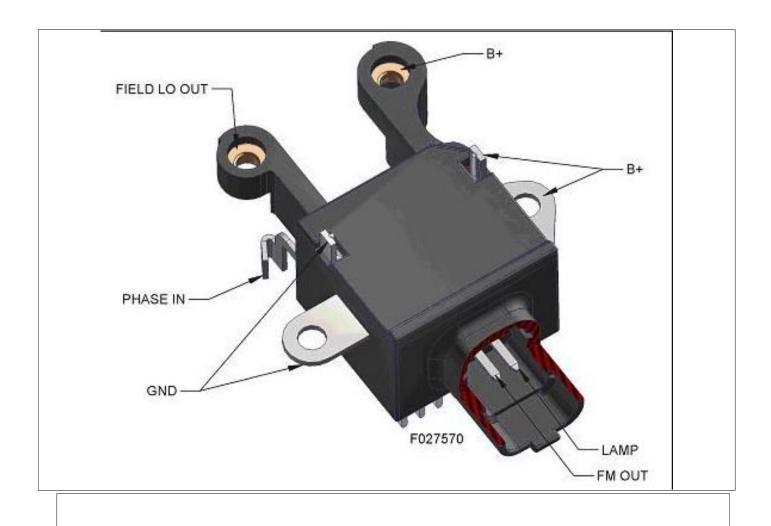
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

No connection to the FM Out terminal.

Push Over Voltage button, Light should turn ON, set point is approximately 17.2 volts.

Push Choke button, Choke Light should turn ON.



Page 385 Product Group IN-52 Revision: Date: <u>1/6/2021</u>

type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM545	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

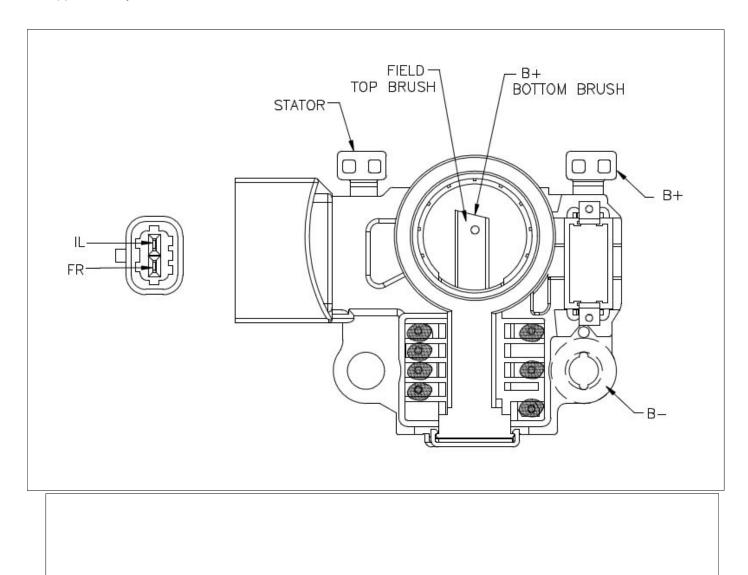
3. Amendments or Additional Tests:

Do not connect the FR terminal.

Disconnect the Stator terminal and the Light should turn ON.

for

Reconnect the Stator terminal, push the Over Voltage button, the light should turn ON, the set point will be approximately 17.2 volts.



Page 386 Product Group IM-76 Revision: Date: 1/6/2021

for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M526	В	12	14.8				

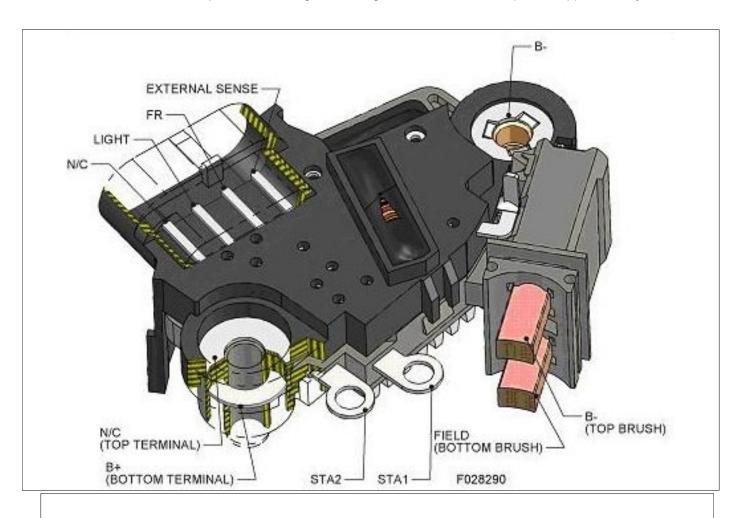
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

After applying power part requires about 10 seconds to start regulating. Must install a 1.5uF capacitor between Stator terminal #2 and B-. Attach VRC2010 Stator lead to Stator terminal #1.

Disconnect Sense lead and light turns ON.Push Choke button, choke light will turn ON.

Reconnect Sense lead and push Over Voltage button, light should turn ON, set point is approximately 17.3 volts.



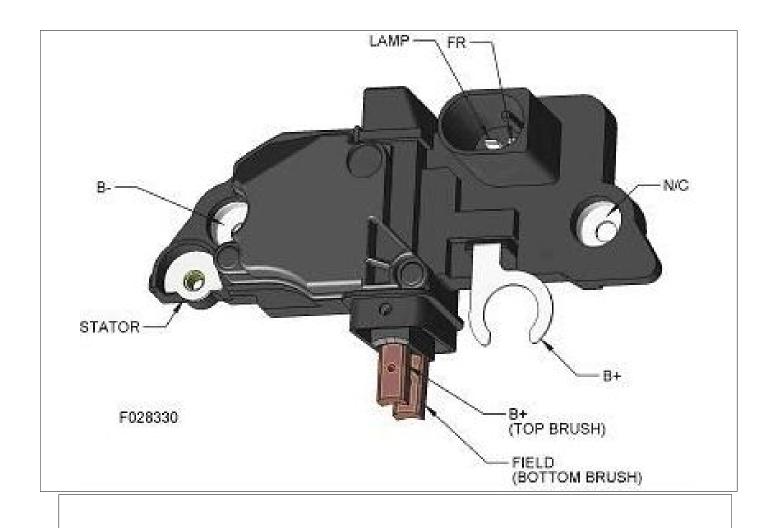
Page 387 Product Group M-62 Revision: Date: 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB206	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Do not connect FR terminal.

Push Choke button and Choke light should be ON.



Page 388 Product Group IB-33 Revision: Date : 1/6/2021

type regulators

MITSUBISHI

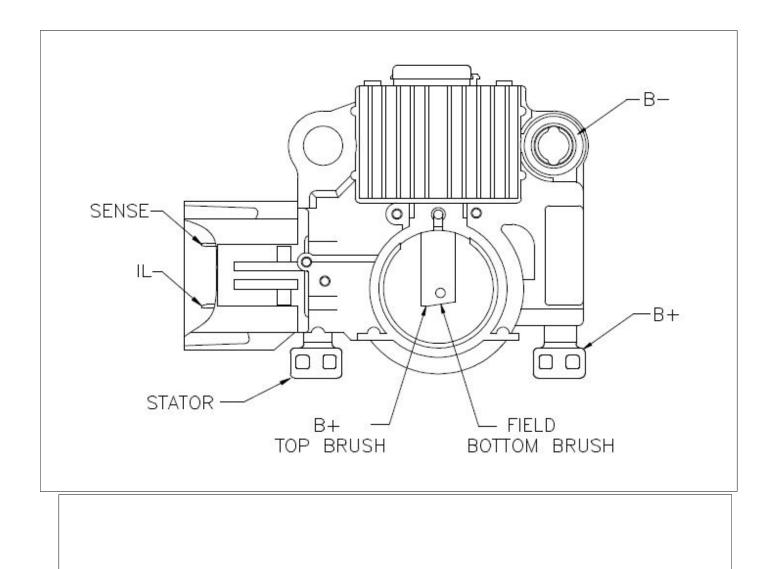
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM476	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect Sense lead and Light should turn ON. Set Point will be approximately 15.6 volts. Reconnect the Sense lead and press the Over Voltage button. The light should be ON, and the set point will be approximately 17.3 volts.



Page 389 Product Group IM-71 Revision: Date: 1/6/2021

NIPPONDENSO

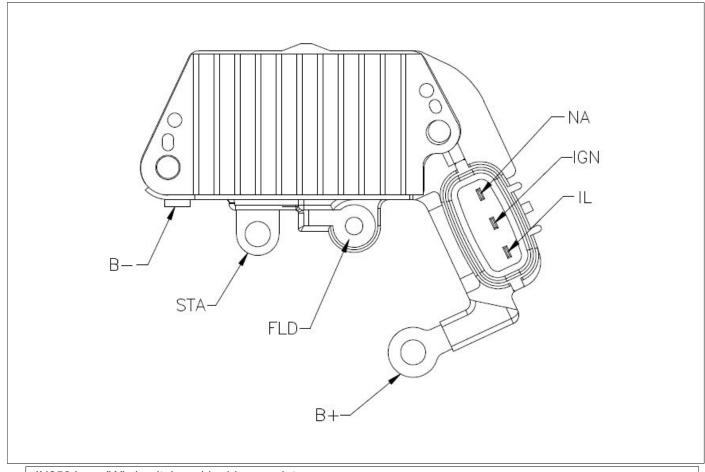
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- When Ignition wire is disconnected from the regulator, VSet reading drops to default 12V.
- When both the Field and Stator connections are disconnected from regulator, lamp illuminates.

Note: This regulator's light circuit functions when a combined condition exists ... Loss of the Stator signal and B+ Voltage drops below 14.0V (approx).



- IN258 is an "A" circuit, low side drive regulator.
- D-IG-L Terminals (D = dummy / no function)
- VSet 14.4V (+/- 0.2V).
- Field rating 5-Amps.
- Ignition activated.

Page 390 Product Group IN-46 Revision: Date: 1/6/2021

for NIPPONDENSO type regulators

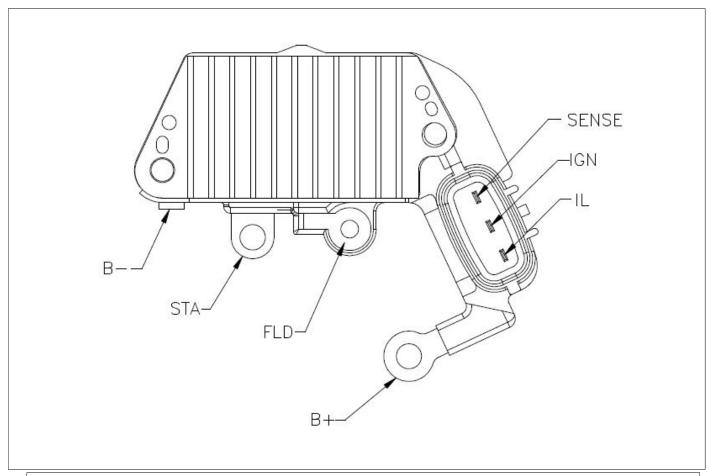
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
in257	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from the terminal marked "*". The indicator light will turn on and the meter will indicate approximately 12V and the field lamp will remain fully on (this is the soft start mode of the regulator).

<u>Using VRC2010</u>: To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.



NOTE on Stator: Transpo (White test lead) / OE (Red test lead)

REFER TO PRODUCT GROUP IN-29, PAGE 341-A FOR REGULATOR'S DIAGRAM

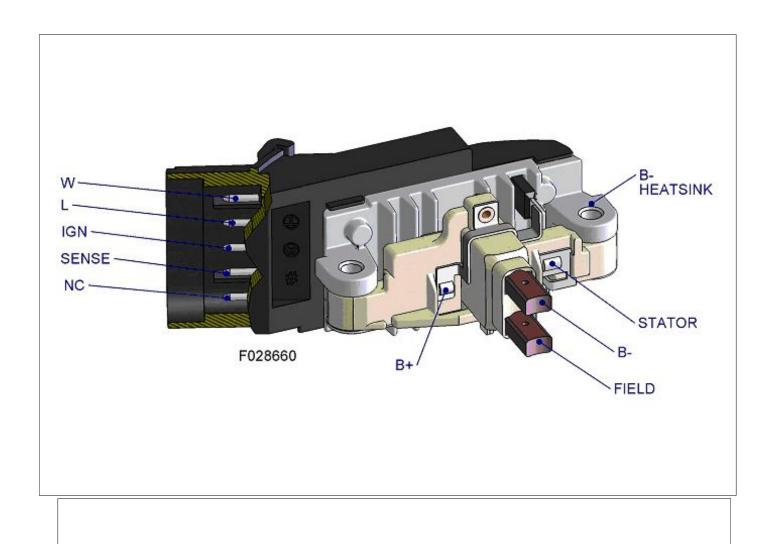
Page 391 Product Group IN-45 Revision: Date: 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB558	В	24	25.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

<u>Power On</u>: Note Set Point on VRC2010 digital display; Disconnect Sense terminal and note set point reading should rise to approximately 28.5 volts.

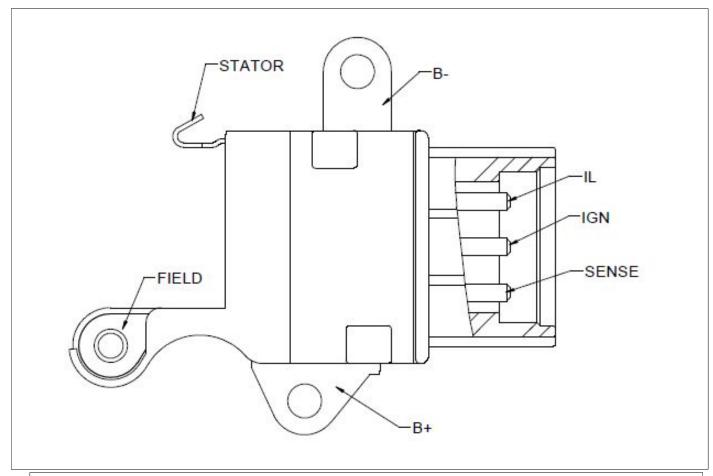


Page 392 Product Group IB-34 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - Set Field Load Switch to 0.5 Amp only.
 - Disconnect the Sense Lead and verify Light Turns On.
 - · No over voltage lamp



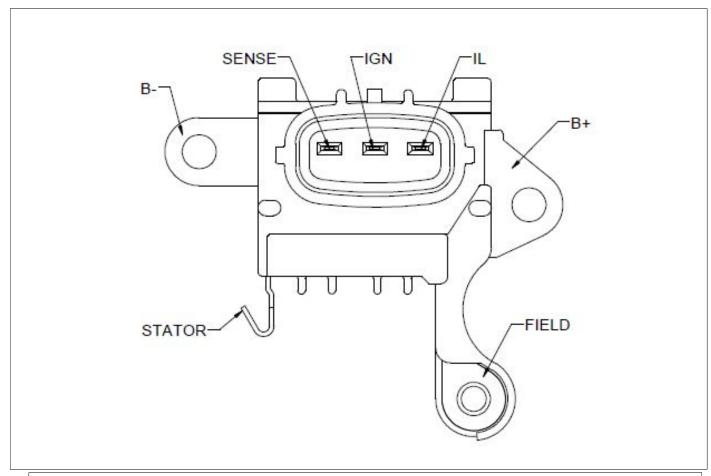
- S-IG-L Terminals
- · Ignition Activated
- Without LRC
- Standard Lamp No Output

Page 393 Product Group IN-70 Revision: Date: 1/6/2021

NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - Set Field Load Switch to 0.5 Amp only.
 - Disconnect the Sense Lead and verify Light Turns On.



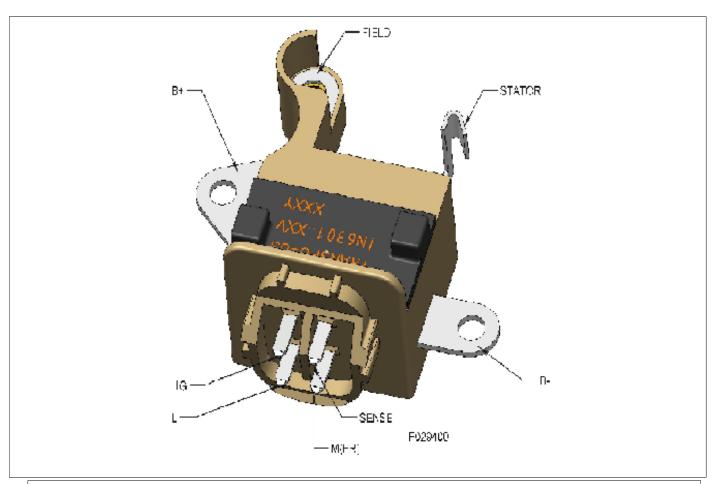
- S-IG-L Terminals
- Ignition Activated.
- Without LRC
- Active Lamp With Output

Page 394 Product Group IN-69 Revision: Date: 1/6/2021

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6301	В	12	14.1				
IN6301CN	В	12	14.4				

NIPPONDENSO type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - Set Field Load Switch to 0.5 Amp only.



- IG-S-L-M(FR) Terminals
- Ignition Activated
- LRC 6-Seconds, Full Range
- Multi-Step TempCo
- Standard Lamp No Output

Page 395 Product Group IN-78 Revision: Date : <u>1/6/2021</u>

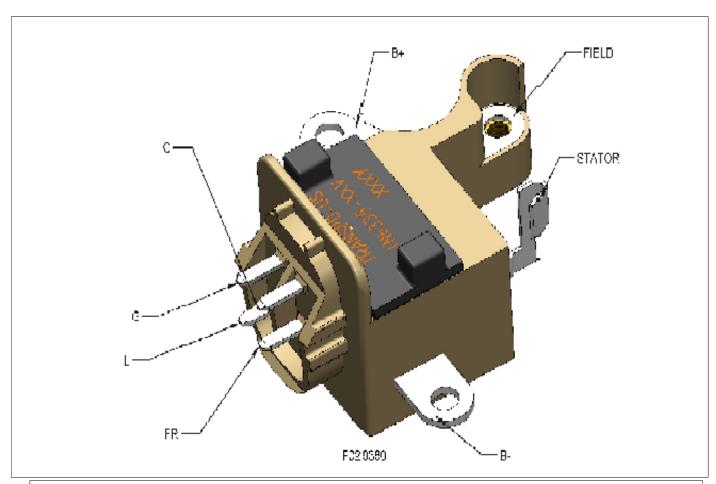
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6335	В	12	14.5				

NIPPONDENSO type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- Set Field Load Switch to 0.5 Amp only
- Connect the C Terminal to B-, the set point should drop to 12.7 Volts
- Remove Stator wire and the Light should turn ON



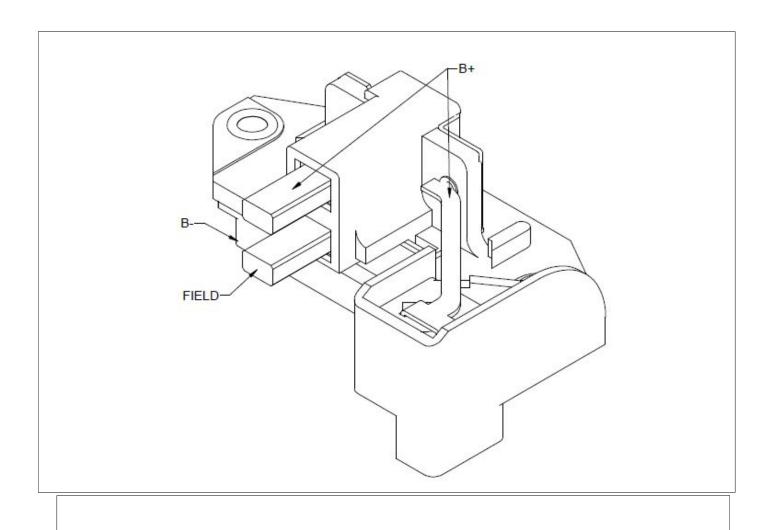
- IG-C-L-FR Terminals
 Ignition Activated
 LRC 11-Seconds (to 400HZ)
- Standard Lamp No Output
- Due to the long delay, automatic spin bench testers should be setup to be in the 'Wait Always' mode. Not doing so may result in an inaccurate performance reading.

Page 396 Product Group IN-90 Revision: Date: 1/6/2021

for MAGNETI-MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX110CN	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 397 Product Group IX-16 Revision: Date: <u>1/6/2021</u>

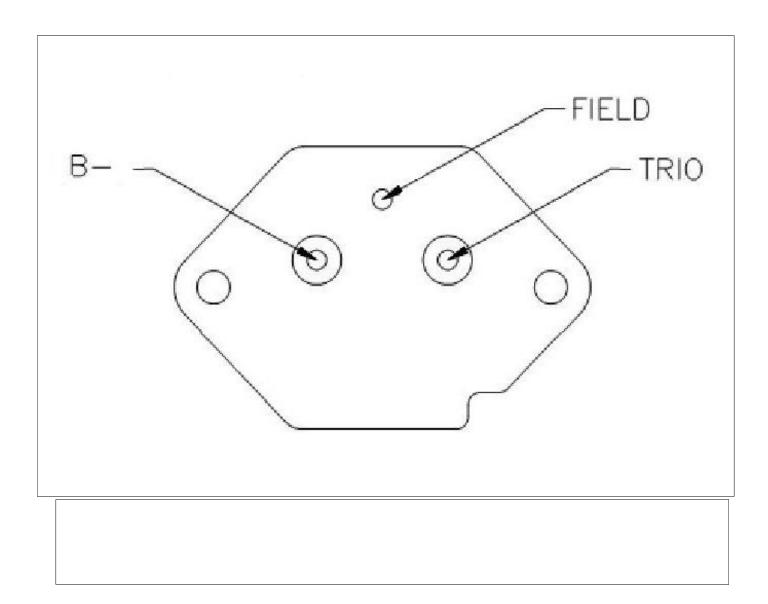
MOTOROLA

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M3118C	Α	24	28.5				
M3118	Α	24	28.0				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



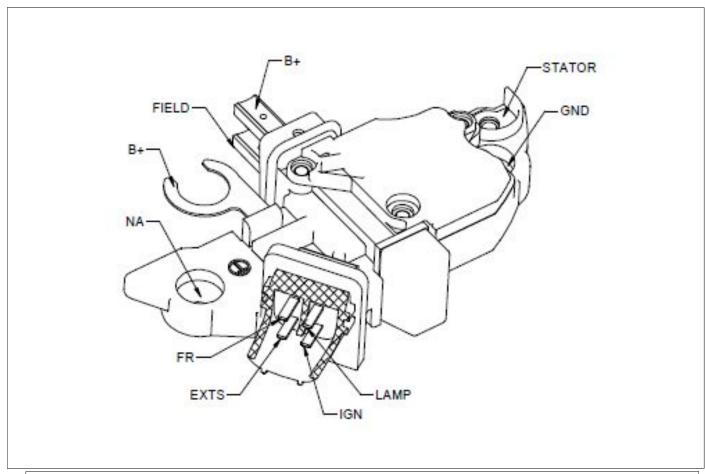
Page 398 Product Group M5-52 Revision: Date: <u>1/6/2021</u>

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB236	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove White Test Lead from Stator, Lamp Light comes on and Field Light stay on. Remove Green Test Lead from Light terminal, Lamp Light and Field Light turn off.



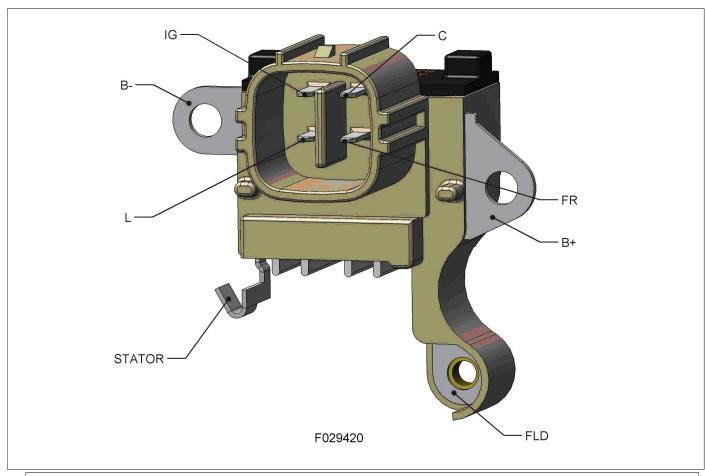
•IG-S-L-DFM Terminals • With LRC 5-Seconds • External Sense(EXTS) • Ignition Activated but will Lamp Activate and Stator Start • Active Lamp Function -With Output • Field, Lamp, Choke Short Circuit Protection

Page 399 Product Group IB-35 Revision: 3/6/2009 Date: 1/6/2021

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6004	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - Set Field Load Switch to 0.5 Amp only
 - * Connect C terminal to B-, verify Set-Point is 12.8 V +/- 0.2V



- IG-C-L-FR Terminals
- Standard Lamp Function No Output
- No Output LRC

Page 400 Product Group IN-72 Revision: Date: 1/6/2021

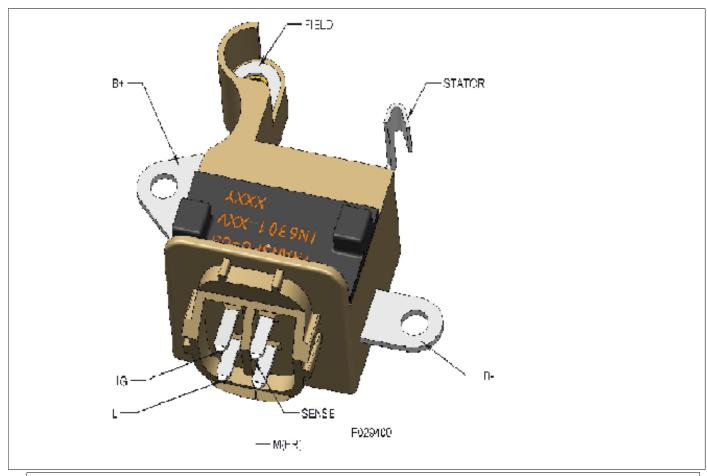
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6302	В	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1.Set Field Load Switch to 0.5 Amp only.
- 2. This regulator is not tested for Over Voltage Lamp or Loss of Sense
- 3.The RLO Function is similar to the RC control function found in PCM controlled Ford 6G systems and GM RVC systems. When the vehicl ECM takes command of the regulator's RLO circuit, the alternator Voltage follows the PWM signal duty cycle; the regulation Voltage will range between 11.80V and 14.99V as needed



- IG-RLO-L-M Terminals
- Ignition Activated
- LRC 6-Seconds, Full Range
- Multi-Step TempCo (unless in RLO mode)

Page 401 Product Group IN-80 Revision: Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D4476	В	24	28.0				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

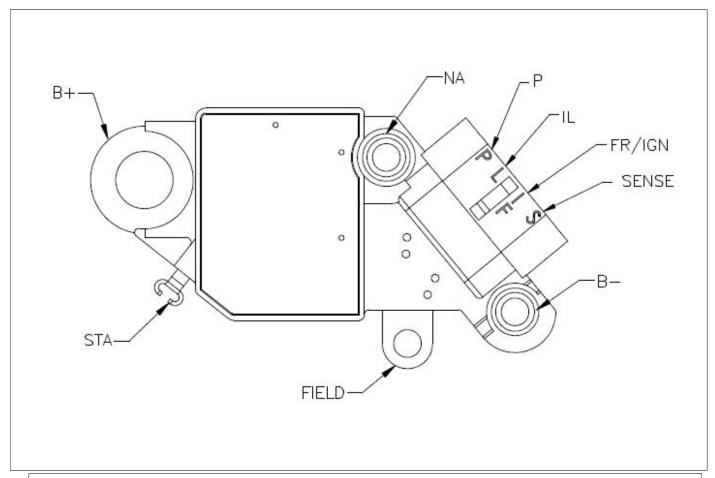
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect Sense Lead, verify the setpoint is 28.0+/-0.2v, also verify the the Light is on.

Disconnect Stator Lead, verify the Light is on and the part stops function.

Push the OVER VOLTAGE button and verify the Light is on.



D4476 is Stator Activated. Load AMP switch is 0.5 position only.

Page 402 Product Group D-43 Revision: Date: 1/6/2021

		for	DELCO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D4152	В	12	14.2				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

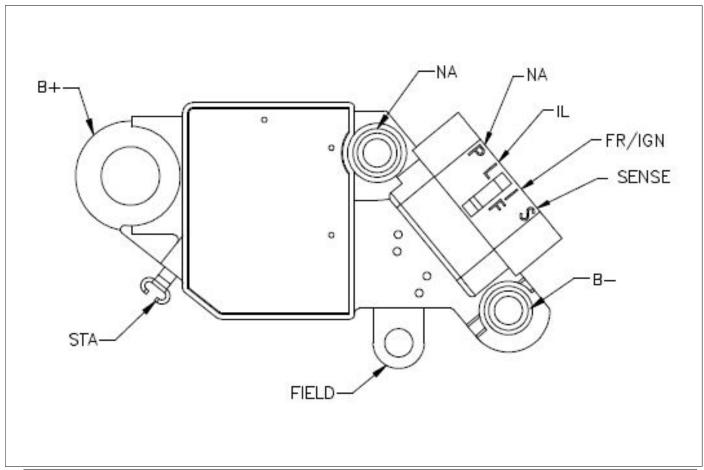
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect Sense Lead and verify the setpoint is 14.2+/-0.2v.

Disconnect Stator Lead and verify the Light is on.

Push the OVER VOLTAGE button and verify the Light is on.



D4152 is Stator Activated.

Load AMP switch is 0.5 position only.

Page 403 Product Group D-44 Revision: Date: 1/6/2021

		for	воѕсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB520	Α	12	14.1				

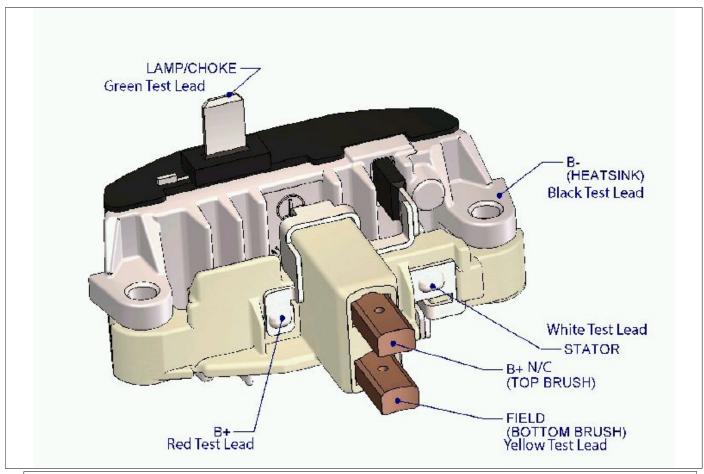
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect Stator Lead and verify the Light is on.

Push the CHOKE DRIVE button and verify the CHOKE DRIVE lamp is on.



IB520 is Stator Activated.

Load AMP switch is 0.5 position only.

Page 404 Product Group IB-36 Revision: Date: 1/6/2021

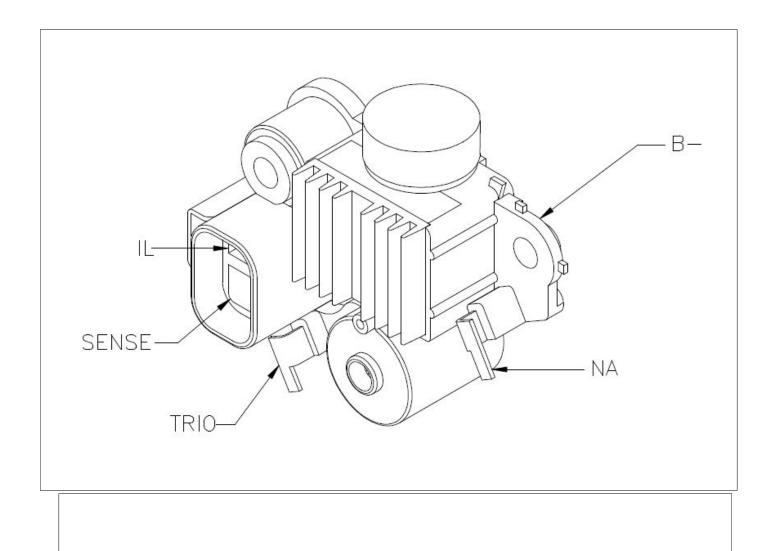
type regulators

MANDO

for

				,poogu.u	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY028	А	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 405 Product Group IY-06 Revision: Date: <u>1/6/2021</u>

type regulators

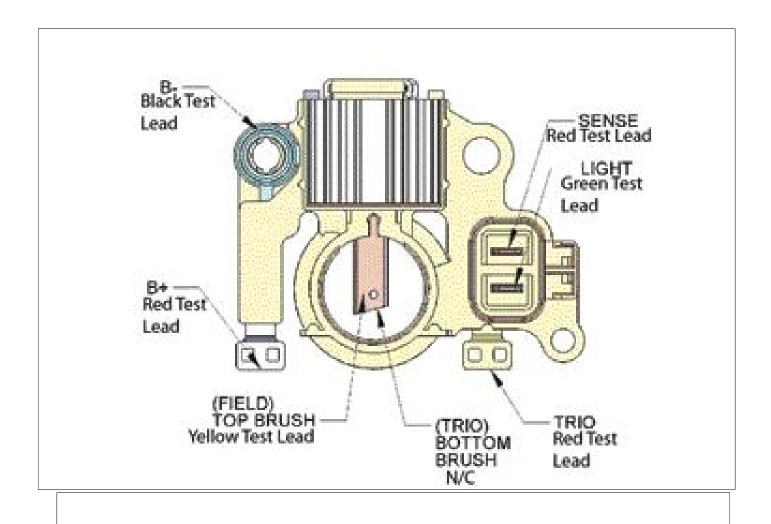
MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM854	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnecting Sense turns light on.

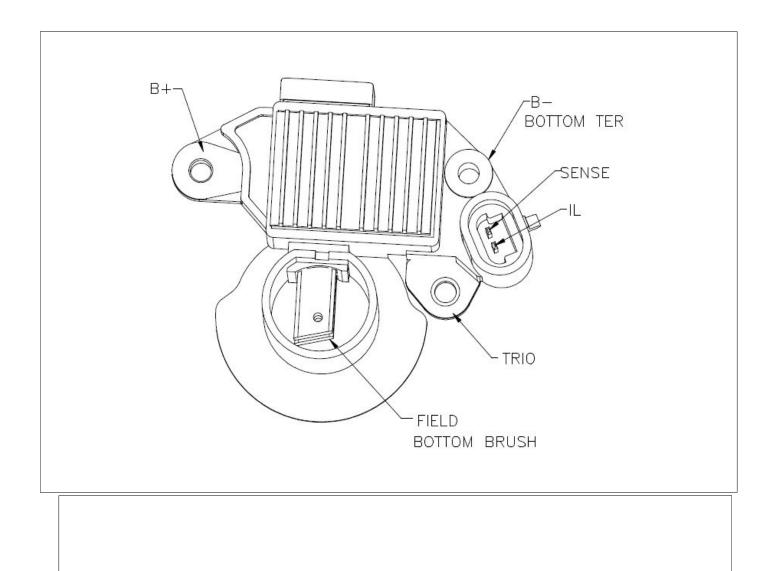
for



Page 406 Product Group IM-87 Revision: Date: <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D840	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the part stops regulating and the voltage goes down to 12.0v.



Page 407 Product Group D-45 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO

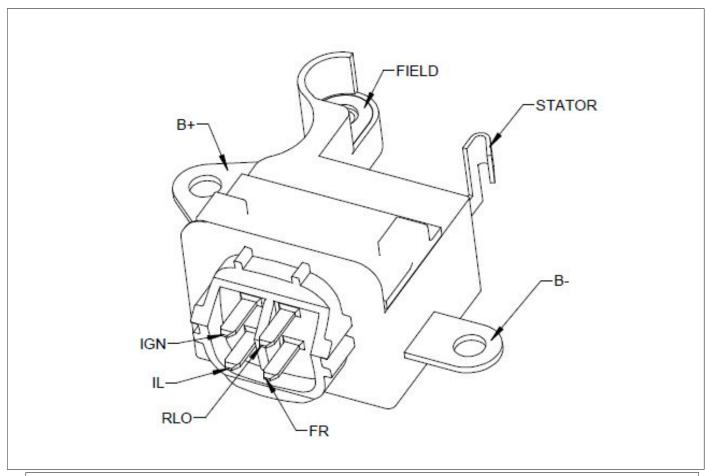
type regulators

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- Set Field Load Switch to 0.5 Amp only.
- No Over Voltage Lamp
- · No RLO terminal test default voltage test only



- IG-RLO-L-M Terminals
- Ignition Activated
- LRC 6-Seconds, Full Range
- Multi-Step TempCo (unless in RLO mode)

Page 408 Product Group IN-86 Revision: Date: 1/6/2021

NIPPONDENSO

PART NO. **FLD VOLT** SET POINT PART NO. FLD VOLT **SET POINT**

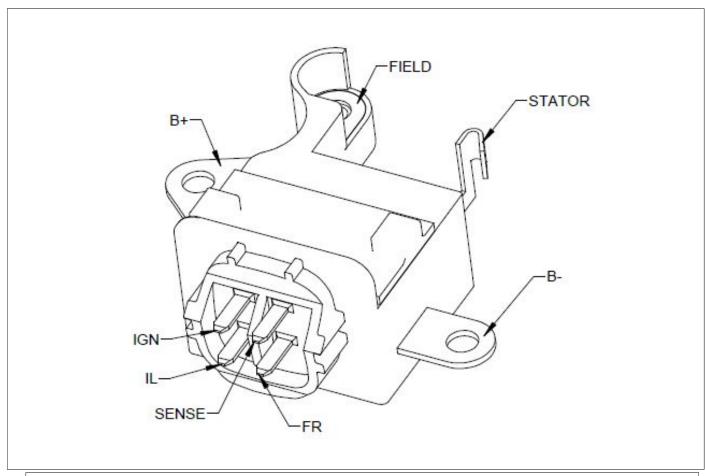
type regulators

IN6304	В	12	14.1		

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

- Set Field Load Switch to 0.5 Amp only.
- Disconnect the Sense Lead and verify Light Turns On (slight delay), reconnect Sense Lead.
- Disconnect Ignition Lead, voltage goes to 12 volts, Field Light turns off and Lamp Light turns off.



- IG-S-L-M(FR) Terminals
- Ignition Activated
- LRC 6-Seconds, Full Range
- Multi-Step TempCo
- Standard Lamp No Output

Product Group IN-82 Date: 1/6/2021 Revision: Page 409

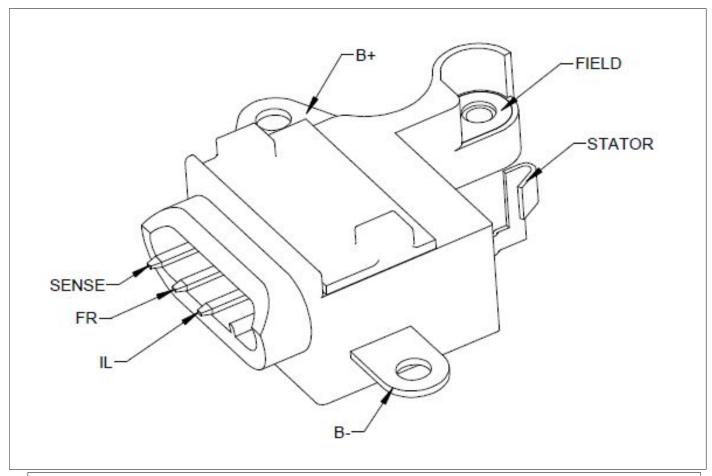
NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- Set Field Load Switch to 0.5 Amp only
- · Disconnect the Sense Lead and verify Light Turns On with Delay
- This Regulator without Over Voltage Lamp Indication



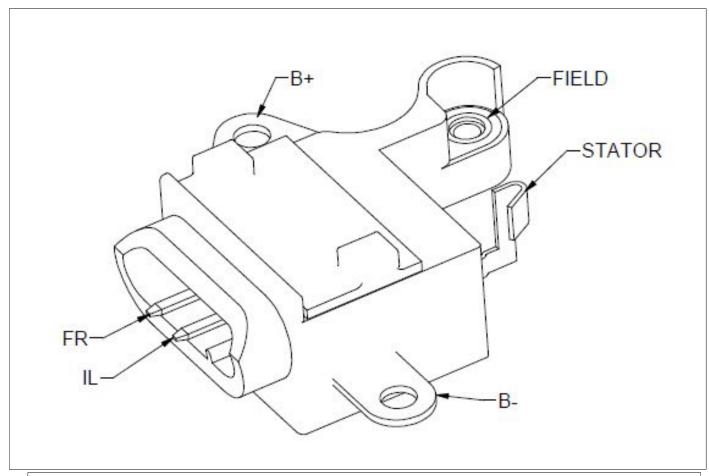
- S-F-L Terminals
- Stator Activated.
- LRC 9-Seconds (to 400HZ)
- Standard Lamp No Output

Page 410 Product Group IN-71 Revision: Date: 1/6/2021

NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - Set Load Amperage Switch to 0.5 Position Only
 - · No over voltage lamp
 - Regulator without Over Voltage Lamp Indication



- F-L Terminals
- · Lamp Activated.
- LRC 2-Seconds (to 400HZ)
- Standard Lamp Function No Output

Page 411 Product Group IN-73 Revision: Date: 1/6/2021

NIPPONDENSO type regulators VOI T SET POINT PART NO FLD VOI T SET POINT

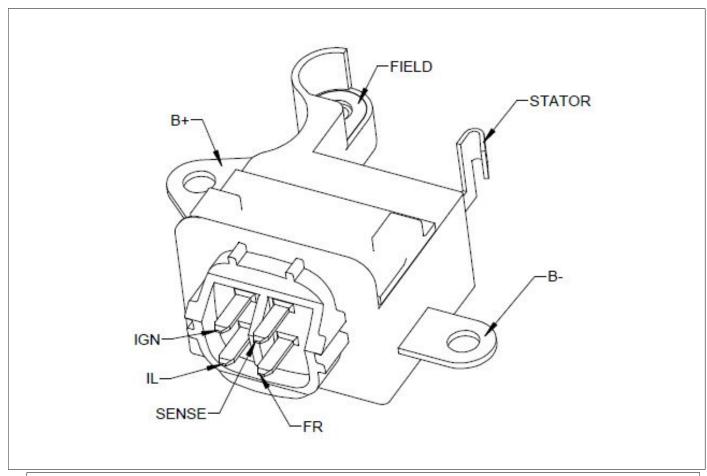
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6304	В	12	14.1				

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

- Set Field Load Switch to 0.5 Amp only.
- Disconnect the Sense Lead and verify Light Turns On

... Need to verify all !!!!



- IG-S-L-M(FR) Terminals
- Ignition Activated
- LRC 6-Seconds, Full Range
- Multi-Step TempCo
- Standard Lamp No Output

Product Group IN-82 Date: 1/6/2021 Revision: Page 412

		tor	воѕсн	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB314	В	12	13.8*				
IB696	В	12	13.8*				

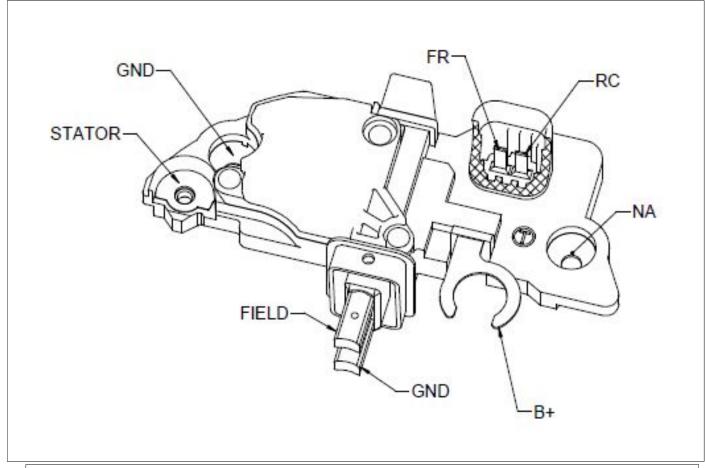
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 11.8V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 13.3V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.4V.

Note: The Voltages listed above are approximate and may not exactly match your meter read out.



- This is an RVC type, 'Regulated Voltage Control' system regulator.
- Regulated Voltage Control is provided by the vehicle's PCM / ECU or GBCM (Generator Battery Control Module) via a digital 'PWM' signal applied to the regulator L-terminal.

Page 413 Product Group IB-105 Revision: Date: 1/6/2021

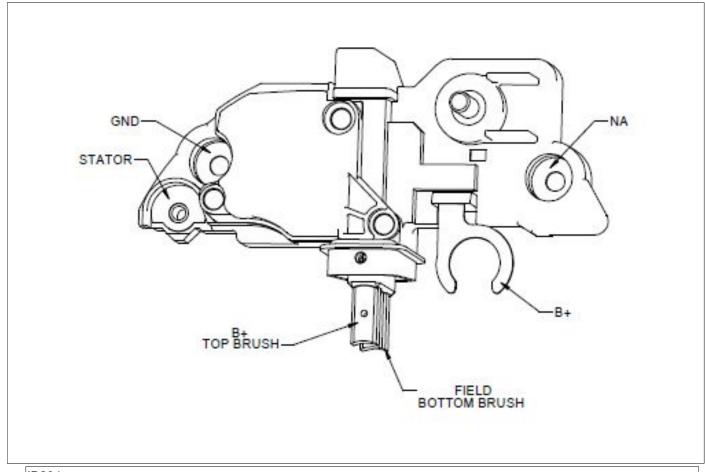
		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB231	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

VRC2010 Tests:

- To check for presence of Active Lamp function Press 'Choke Drive' button, choke lamp will illuminate
- To check for presence of Over Voltage function Press 'Over Voltage' button, indicator lamp will illuminate



IB231

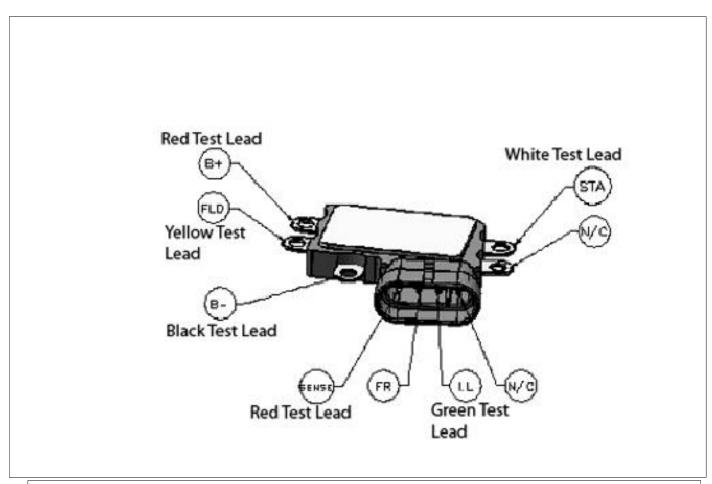
- · With LRC and Soft Start
- L (D+) Terminal M5

Page 414 Product Group IB-37 Revision: 11/2/2003 Date : 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D907	В	12	14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect Stator Lead and verify the Light is on.



B-Circuit, Volt Set 14.0V

- S-F-L-P Terminals
- Stator Activated
- Full Short Circuit Protection
- Excellent Choice for 1-Wire System

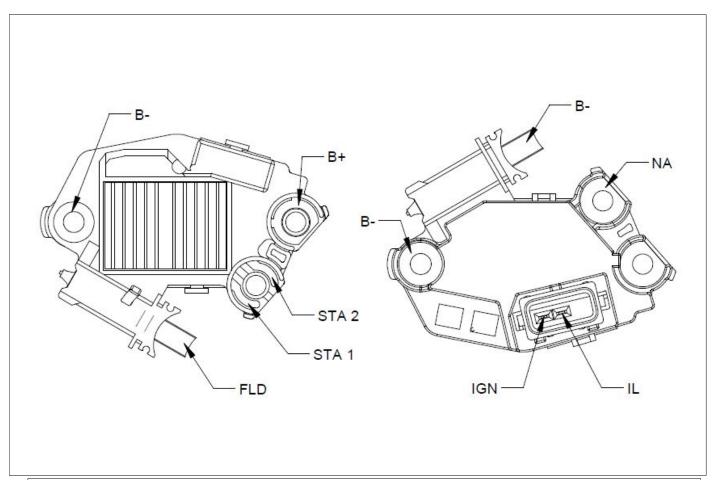
Page 415 Product Group D-46 Revision: Date: 1/6/2021

for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M523	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ

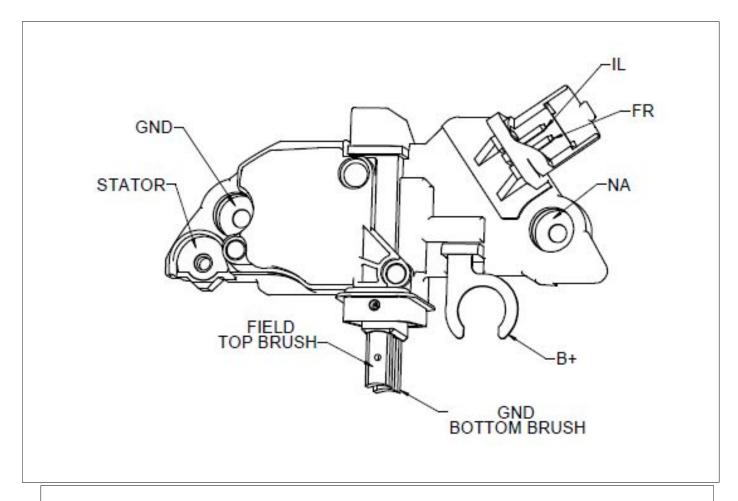


• Terminal Designation 16E-15 (Lamp-Ignition) • Stator Activated • LRC 5-Seconds • OE Compliant Soft Start • Lamp-Choke, Field Short Circuit Protection

Page 416 Product Group M-60 Revision: Date: 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB286	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - To check for presence of Active Lamp function Press 'Choke Drive' button, choke lamp will illuminate



• L-DFM Terminals • LRC 2.5 Seconds, w/ Soft Start • Active Lamp Function – With Output NOTE: VRC101-34 adapter shown for enhance stator signal, not all late model regulators need enhance signal

Page 417 Product Group IB-38 Revision: 11/2/2003 Date: 1/6/2021

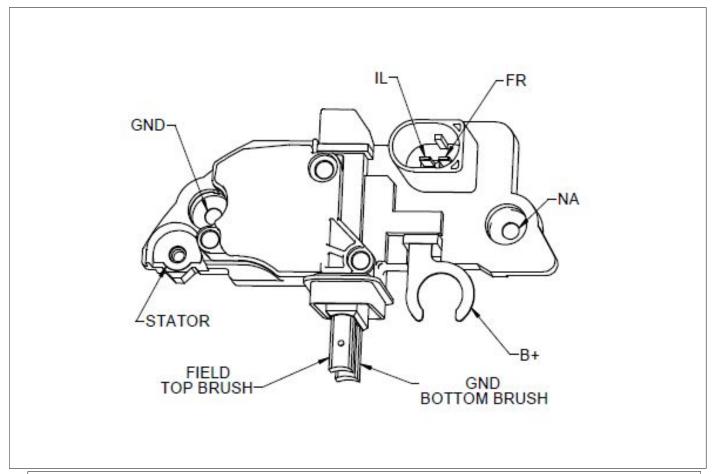
		τοr	возсн	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB261	В	12	14.5				
IB261S-B40	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

- Push the Choke switch and the "Choke Drive" will turn on.
- Remove white test lead from terminal marked "Stator" the Lamp will come on and Voltage will show 12 volts.
- Remove green test lead from "light" terminal, field light will go out and voltage stays at 12 volts.



• L-FR Terminals • Stator Activated• With Soft Start & LRC• TC -10mV/C• Active Lamp Circuit -With Output

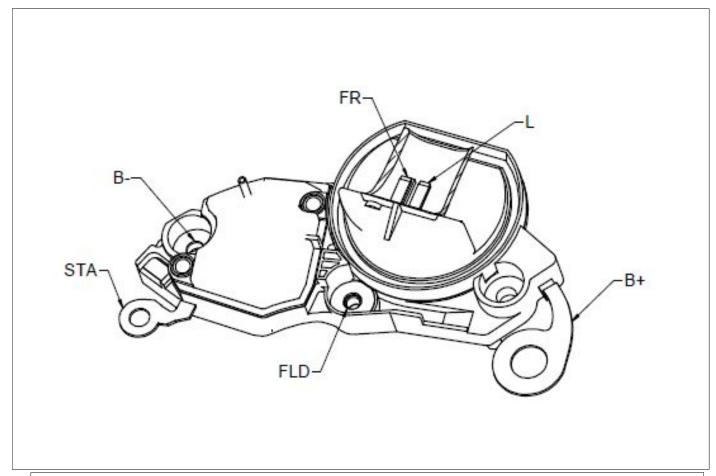
Page 418 Product Group IB-26 Revision: 11/2/2003 Date : 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB201	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1 Remove white test lead from terminal marked "Stator" the Field light and Lamp will come on and Voltage will show 12 volts.
- 2 Remove green test lead from "light" terminal, field light will go out and voltage stays at 12 volts.
- 3 No Over Voltage and Lamp.
- 4 Push choke drive button and choke drive lamp should be on.



- · VSet 14.4 +/- 0.2
- L-DFM Terminals
- · 2.5 Second LRC
- Active Lamp Circuit With Output
- Ref. F-00M-225-401. 0-122-1AA-5BO. 0-122-9AA-0X0

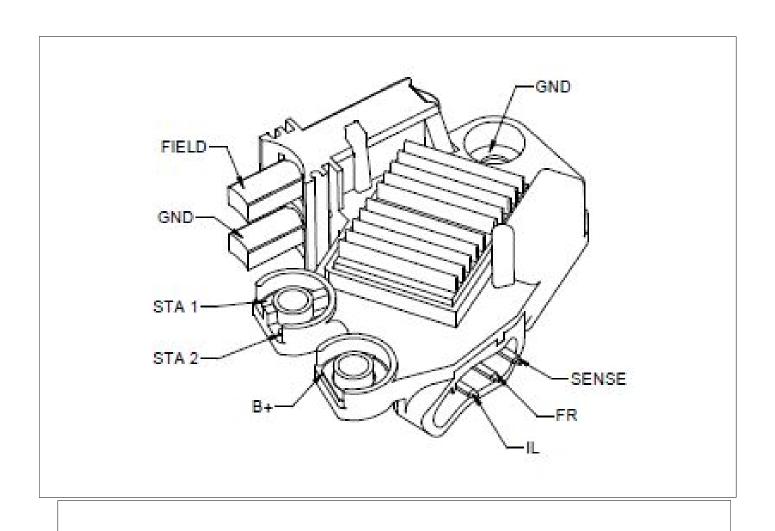
Page 419 Product Group IB-39 Revision: 11/2/2003 Date: 1/6/2021

for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M520	В	12	14.6				
T8520	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ



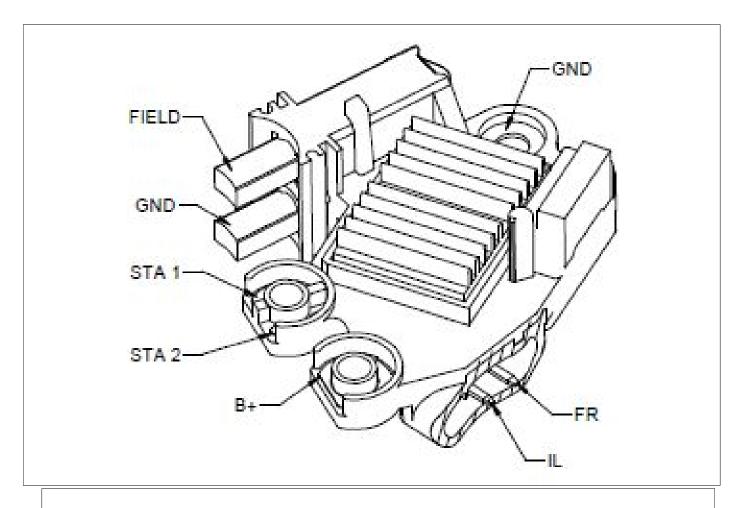
Page 420 Product Group M-59 Revision: Date: <u>1/6/2021</u>

for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M524	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ



- F-L terminals
- Lamp Activated
- With FR Resistor

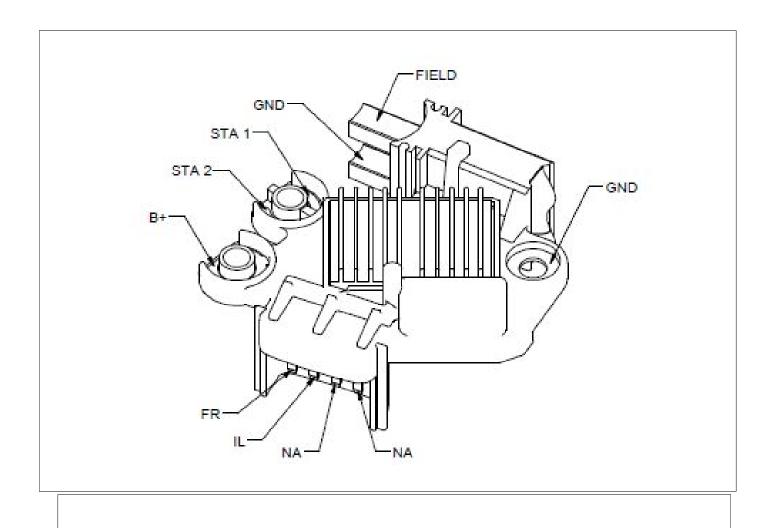
Page 421 Product Group M-61 Revision: Date: 1/6/2021

for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M536	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ



Page 422 Product Group M-64 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IB252	В	12	14.4						

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

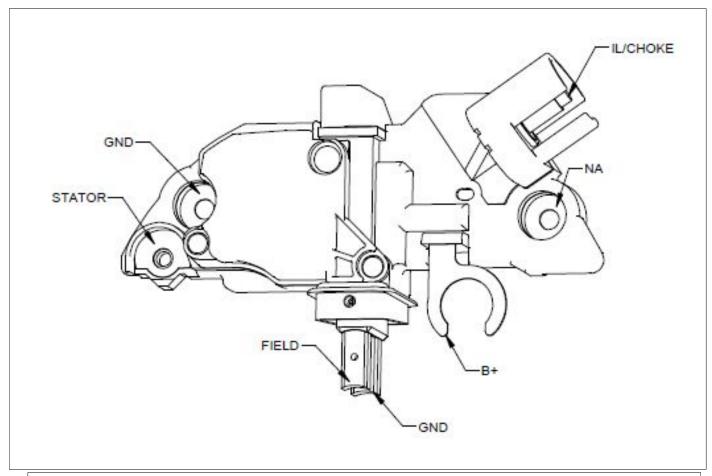
3. Amendments or Additional Tests:

Remove White test Lead from Stator Light comes on. Reconnect Stator.

Remove Red test Lead from Sense, Light comes on. Reconnect Sense.

Remove Green test Lead from Lamp, voltage remains same. Reconnect Light.

Remove White test Lead from Stator, Light and Ignition voltage goes to 12 volts.



- L-Terminal M5
- Active Lamp Function With Output
- Lamp, Field, Choke Drive Short Circuit Protection

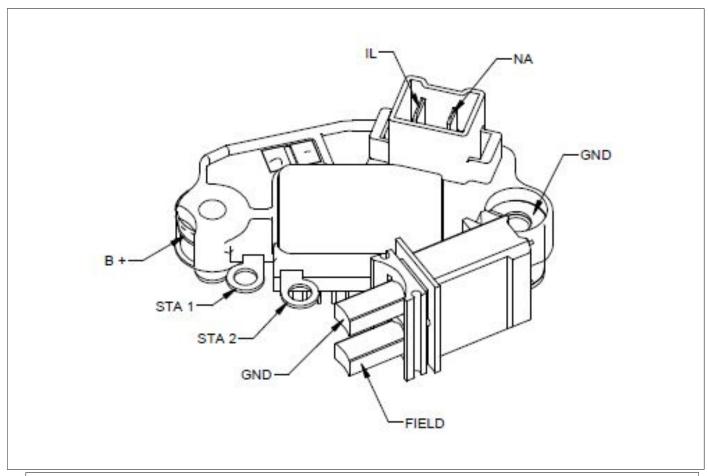
Page 423 Product Group IB-40 Revision: 11/6/2006 Date: 1/6/2021

for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M528	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ

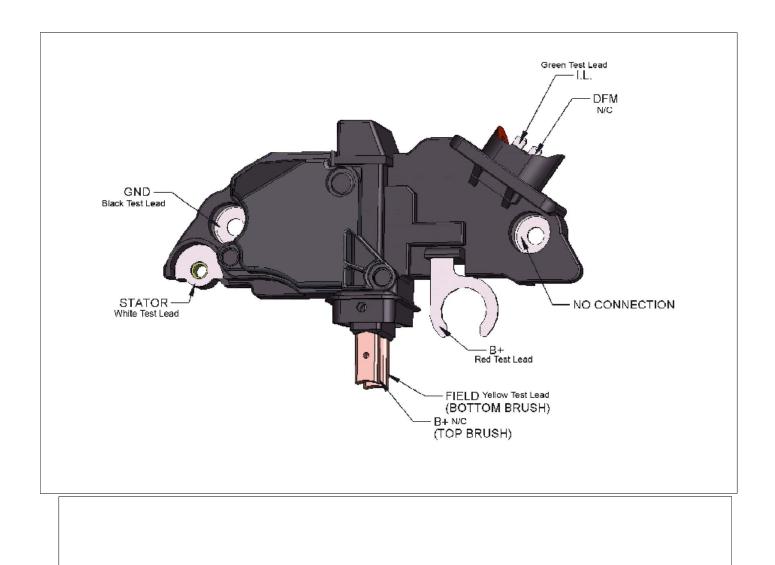


Stator Activated • OE Compliant Soft Start • Under Voltage Lamp • Field, Lamp, Choke - Short Circuit Protection

Page 424 Product Group M-63 Revision: Date: 1/6/2021

		for	BOSCH	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IB226	Α	12	14.7						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 425 Product Group IB-41 Revision: Date : <u>1/6/2021</u>

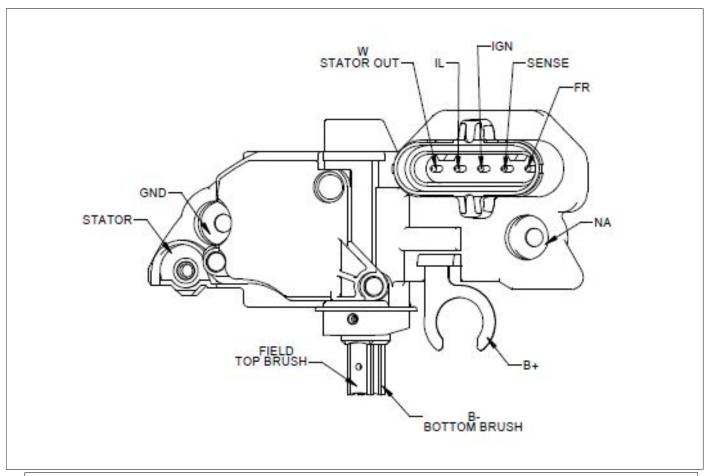
		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB297	В	24	28.3				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect FR to tester "LI", Grey.



Remove White test Lead from Stator Light comes on. Reconnect Stator.

Remove Red test Lead from Sense, Light comes on. Reconnect Sense.

Remove Green test Lead from Lamp, voltage remains same. Reconnect Light.

Remove White test Lead from Stator, Light and Ignition voltage goes to 12 volts.

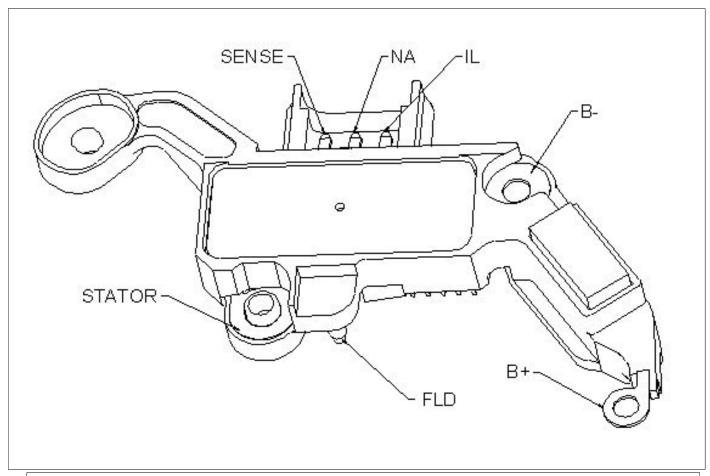
• W-L-15-S-DFM Terminals • OE Compliant Circuit Protection & Functions... 'With Stator Start.

Page 426 Product Group IB-42 Revision: Date: 1/6/2021

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F610	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

To Check for presence of over voltage function-Press "over-voltage button"



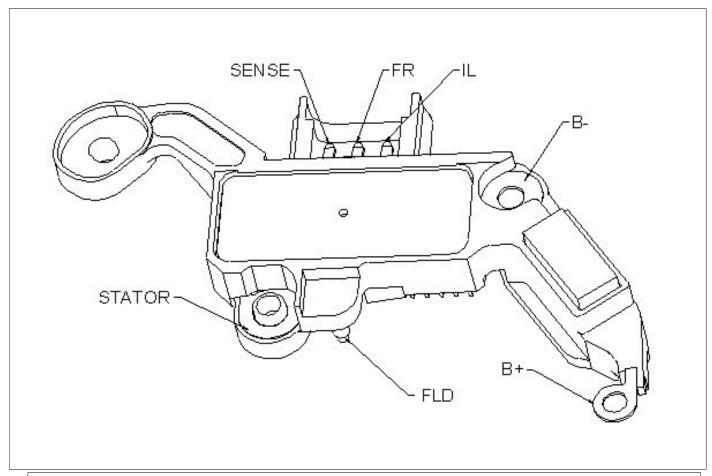
- S-D-L Terminals (Sense-N/C-Light)
- M3 Field Post
- F610 noted to replace OE regulators having a white insert surrounding the heat sink.

Page 427 Product Group F-11 Revision: 11/4/1905 Date : <u>1/6/2021</u>

		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F613	Α	12	14.45				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

To check presence of over voltage function- Press O.V. button



- AS-FR-IL Terminals
- Soft Start
- Over-Voltage Lamp Function
- F613 noted to replace OE regulators having a green insert surrounding the heat sink.

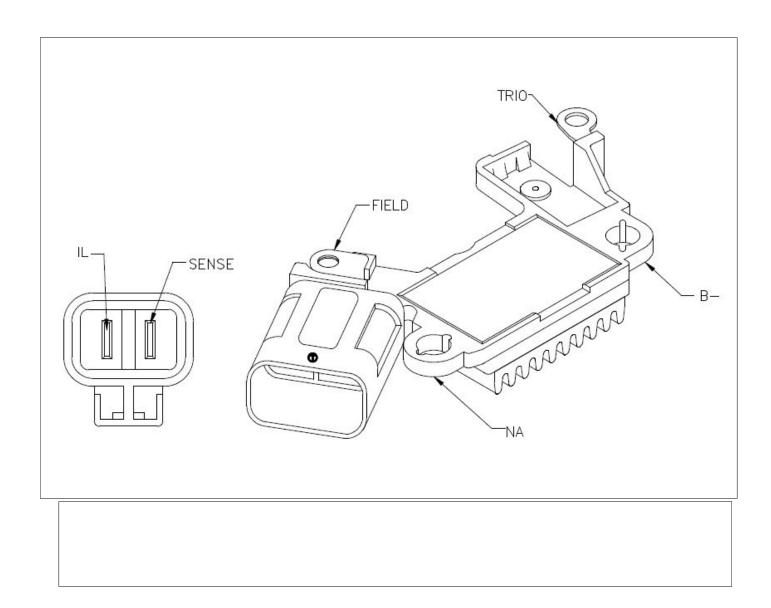
Page 428 Product Group F-12 Revision: 11/4/1905 Date : <u>1/6/2021</u>

		for	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH768	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Filed lamp should still blink and the meter will indicate approximately 15.5 volts.



Page 429 Product Group IH-50 Revision: Date : <u>1/6/2021</u>

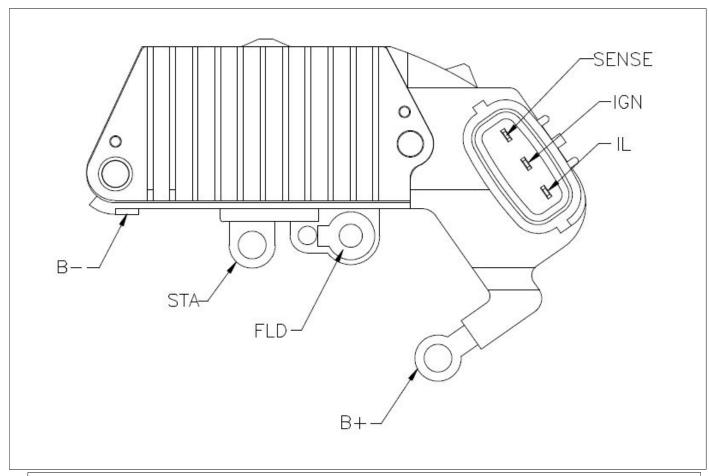
NIPPONDENSO

 PART NO.
 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

 IN460
 A
 24
 28.0
 Image: Control of the control of

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - Remove white lead from stator connection and note the following:
 - ... Indicator lamp should light and voltage stay the same
 - Using VRC2010 to check for 'Over Voltage':
 - ... Push the 'Field Diode' switch and the 'Field Diode Lamp' will turn on.



- Ignition (IGN) activated.
- Stator input turns off the Light.
- Standard Lamp Circuit No Output
- Field Rating 3-Amps.
- Typical Vsat 1.20-Volts. @ 3-Amps. 24-Volts.

Page 430 Product Group IN-67 Revision: Date: 1/6/2021

 for
 NIPPONDENSO
 type regulators

 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

 B
 12
 13.8
 Image: Control of the control o

PARTINO.	FLD	VOLI	SETFOINT	PARTINO.	FLD	VOLI	SETFOINT
IN6324	В	12	13.8				

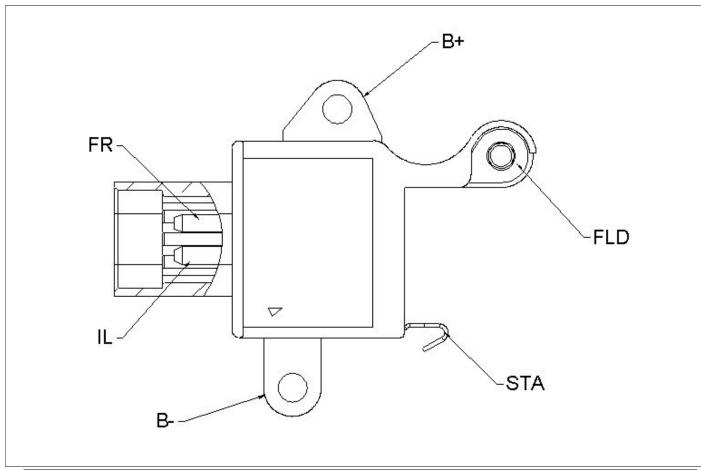
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

DART NO

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 11.8V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 13.3V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.4V.
- * The 13.8V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



Stator or RVC Activated.

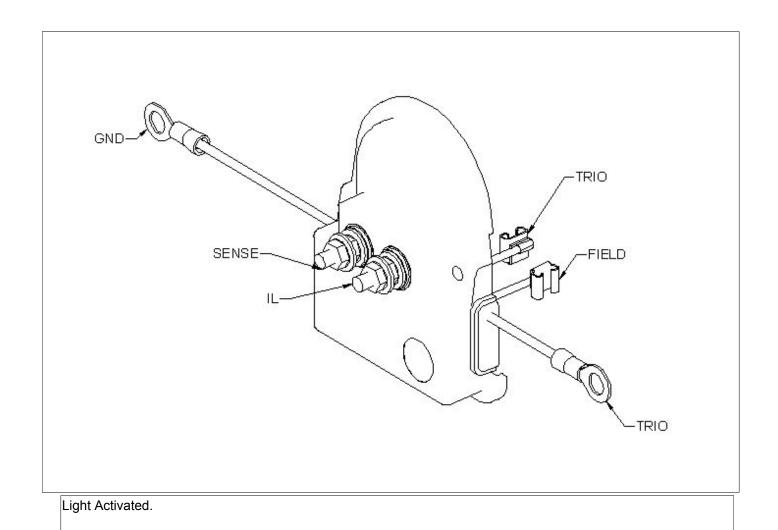
Page 431 Product Group IN-87 Revision: Date: 1/6/2021

MOTOROLA

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

disconnect Sense, check the secondary voltage, it is 15.4+/-0.2V.

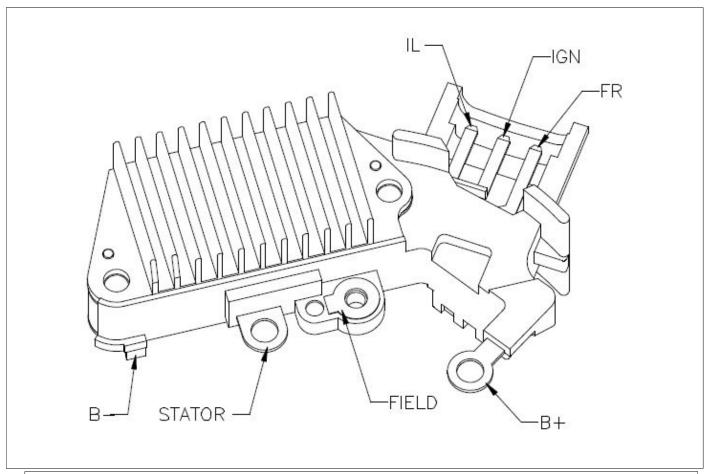


Page 432 Product Group M5-56 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO type regulators VOI T SET POINT PART NO FLD VOI T SET POINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN447HD	Α	12	14.2				

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect stator, the light is ON and the regulator is function.
 - 2. Push the Over Voltage Button on the pannel, the light will be ON.
 - 3. Push the Field Diode Button on the pannel, the field diode LED will be ON.



Ignition Activated.

Product Group IN-63 Date: 1/6/2021 Revision: Page 433

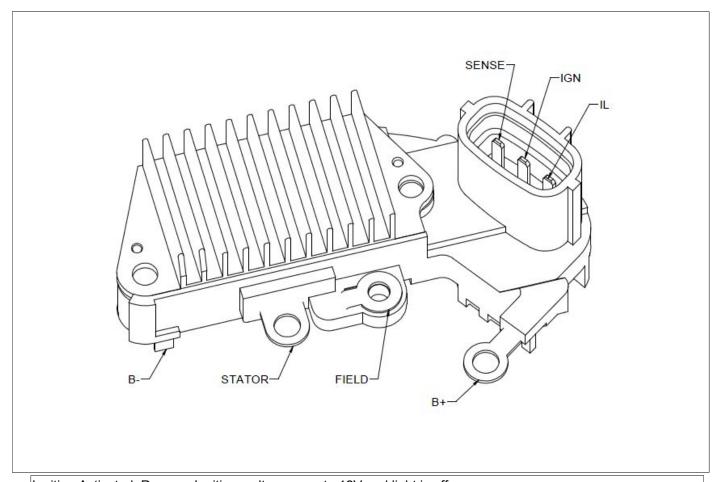
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN453HD	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect stator, the field light is ON and the regulator goes to 12V. Reconnect stator.
- 2. Disconnect Sense, the setpoint is 14.5+/-0.2V and light comes on. Reconnect Sense.
- 3. Push the Over Voltage Button on the pannel, the light will be ON.
- 4. Push the Field Diode Button on the pannel, the field diode LED will be ON.



Ignition Activated. Remove Ignition, voltage goes to 12V and light is off.

Page 434 Product Group IN-64 Revision: Date: 1/6/2021

type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM342	Α	12	14.6				

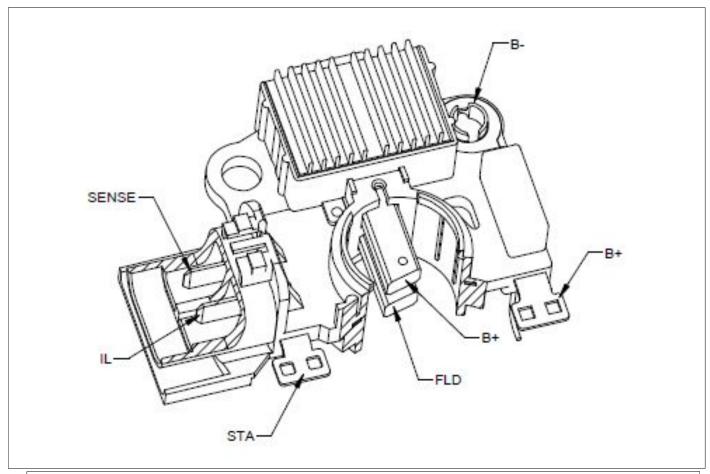
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

1. Disconnect SENSE, the set point is 15.6+/-0.2V.

for

- 2. Disconnect Stator, the lamp light comes on, field light stays on and volts go to 12 volts...
- 3. Disconnect Light, the part stops regulation.
- 4. Push the Field Diode Button on the panel, the Field Diode LED is on.



Light Activated.

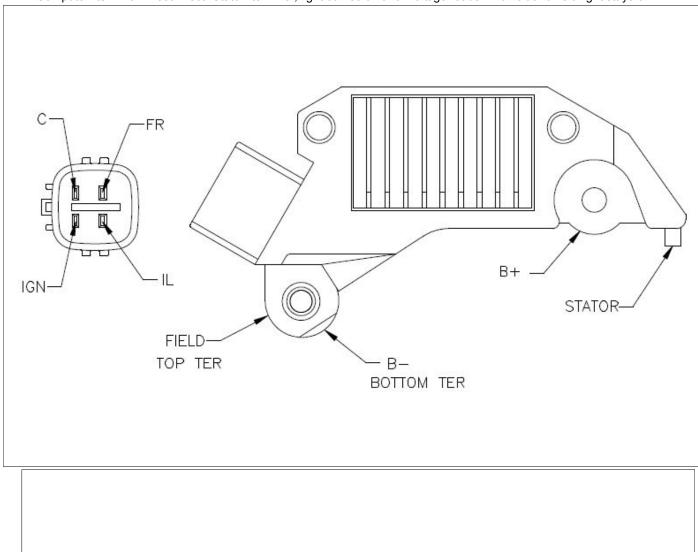
Page 435 Product Group IM-67 Revision: Date: 1/6/2021

		for	DELCO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D9715	В	12	14.70				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1.POWER OFF: Set "Voltage Range" and "FLD" switches to desire settings; Connect the voltage regulator as indicated in the diagram below, except for the "Computer" terminals.
- 2.POWER ON: Field lamp should blink and meter will indicate approximately the set point voltage indicated in the above table.
- 3.Connect black test lead to "Computer" terminal voltage goes to approx. 13.2 volts, Disconnect black test lead from "Computer" terminal. Disconnect "Stator" terminal, light comes on and voltage reads 12.0 volt and field light stays on.



Page 436 Product Group D-34 Revision: Date: 1/6/2021

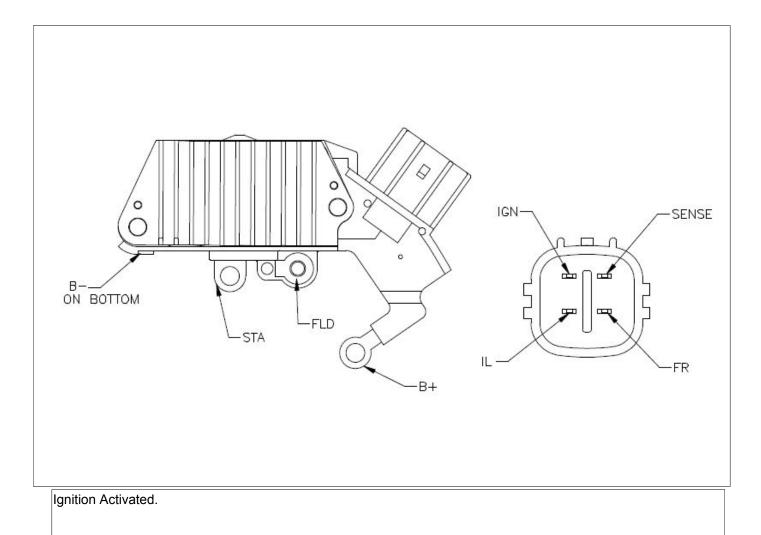
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN3054	В	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Sense, the field lamp should blink, check the reading on the meter, it should be 13.9+/-0.2v.
- 2. Disconnect Stator, the light should be ON, and voltage reads 12.0 volt and field light stays on.
- 3. Disconnect Ignition, the part should stop regulation.
- 4. Push the Field Diode Button on the panel, the Field Diode lamp should be on.



Page 437 Product Group IN-51 Revision: Date: 1/6/2021

NIPPONDENSO

PART NO. FLD **VOLT** SET POINT PART NO. FLD VOLT SET POINT

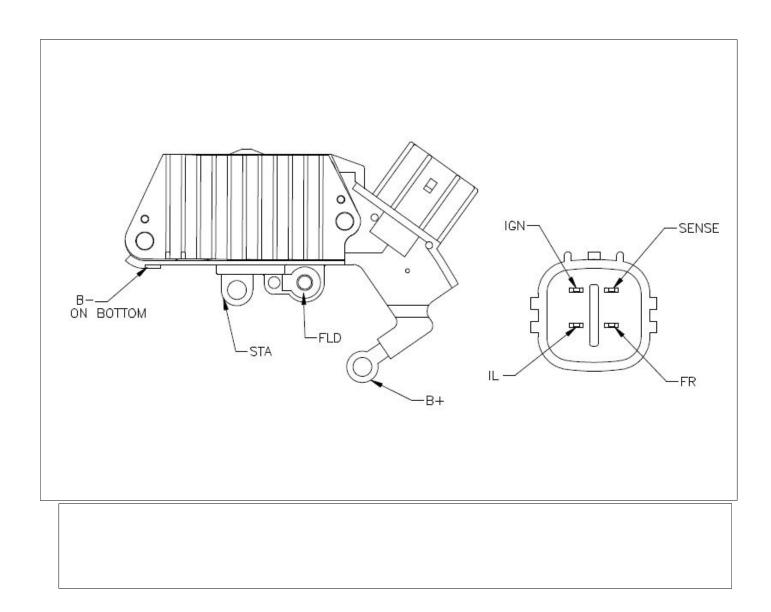
type regulators

		VOL.	02110111	 	1021	02110111
IN302	Α	12	14.3			

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S", lamp turns on and voltage remains the same. Reconnect. Remove white test lead from terminal marked stator, lamp light turns on an voltage goes to 12 volts with field light on.



Product Group IN-50 Date: 1/6/2021 Revision: Page 438

type regulators

MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-313CN	Α	12	14.5				

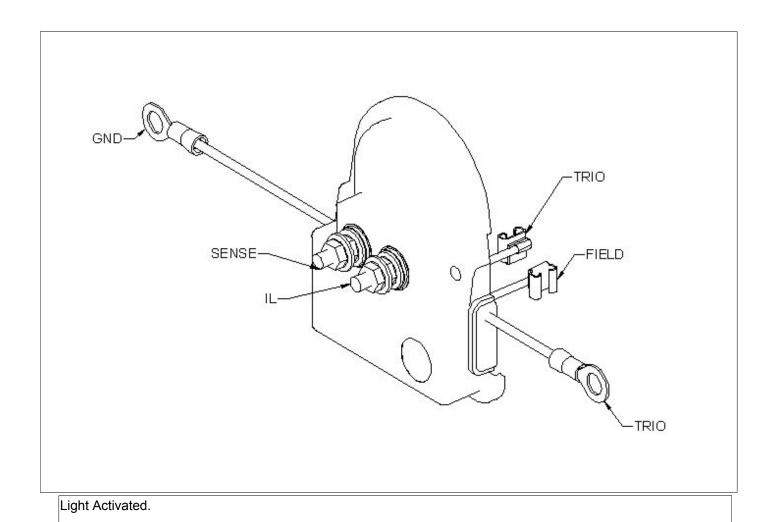
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

1. Disconnect Sense, the set point should be 15.4+/-0.2V.

for



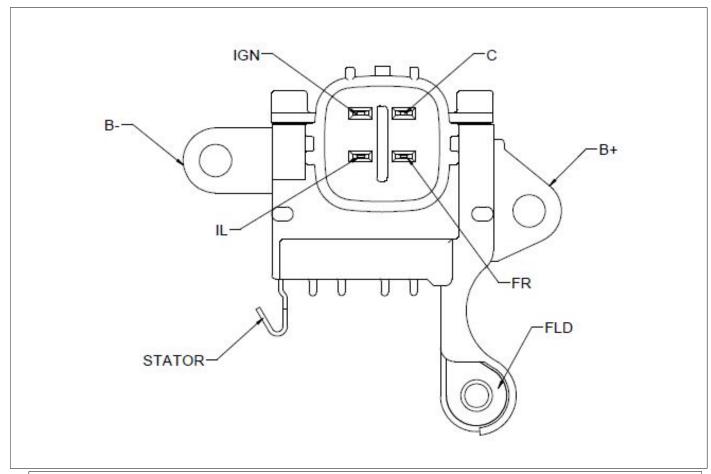
Page 439 Product Group M5-57 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO type regulators PART NO VOLT SET POINT FLD VOLT SET POINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6315	В	12	14.35				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:

- 1. Connect C terminal to the B- of VRC2010, the set point should be 12.7+/-0.2V.
- 2. Remove C, disconnect Stator, the Light should be on, the regulator continues regulating.
- 3. Connect Stator, disconnect Ignition, the regulator stops regulating.



Ignition Activated.

Product Group IN-84 Date: 1/6/2021 Revision: Page 440

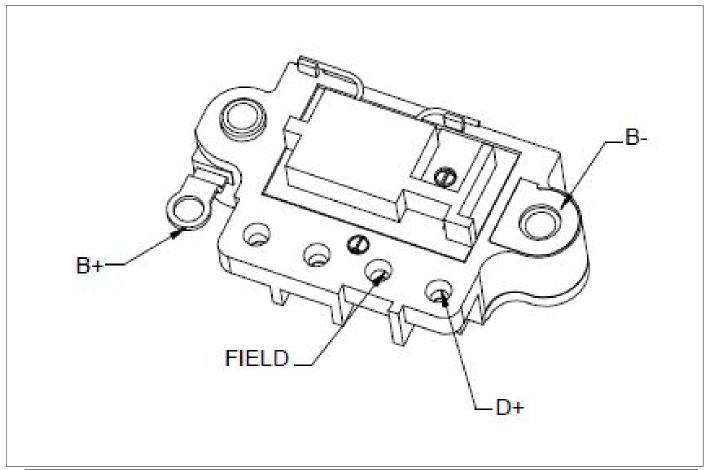
NIPPONDENSO

PART NO. FLD VOLT SET POINT PART NO. FLD VOLT **SET POINT**

type regulators

IN9252	Α	12	14.2		

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:



D+ Activated/Excited.

Date: 1/6/2021 Product Group IN-98 Revision: Page 441

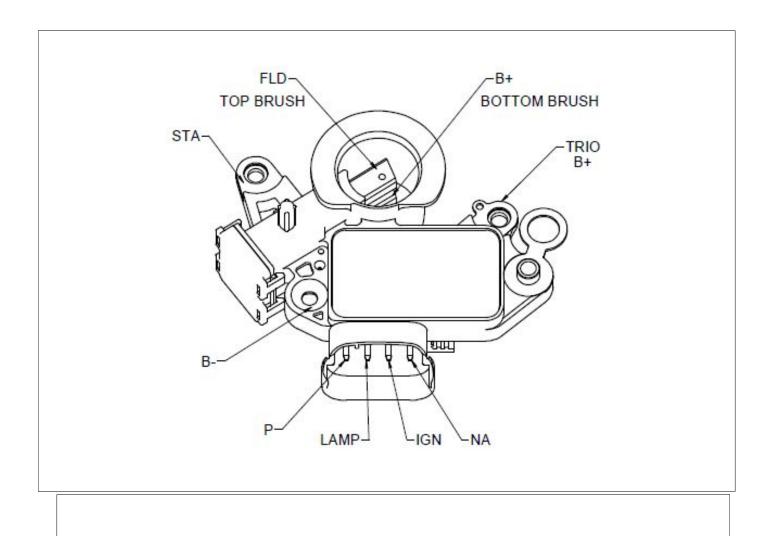
type regulators

DELCO

for

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D2198	А	12	14.35				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

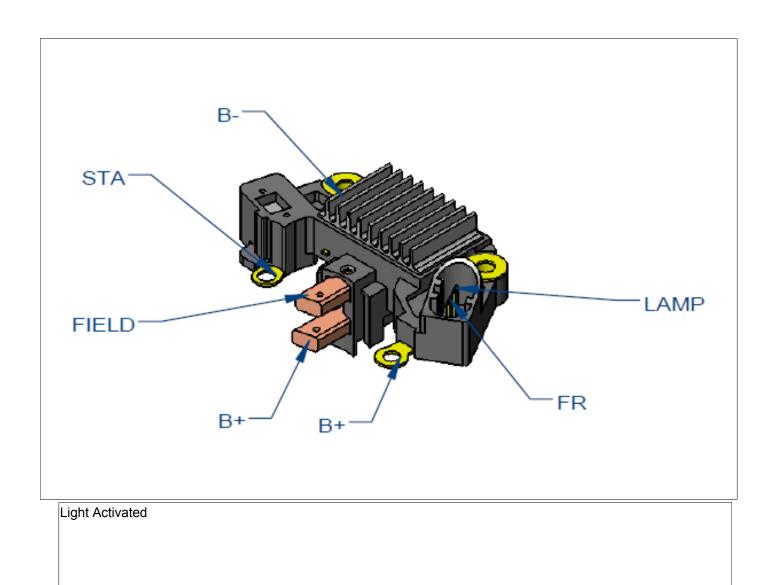


Page 442 Product Group D-47 Revision: Date : <u>1/6/2021</u>

		for	HITACHI	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH701	Α	12	14.5				
IH701V	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect Stator, the light should comes on.

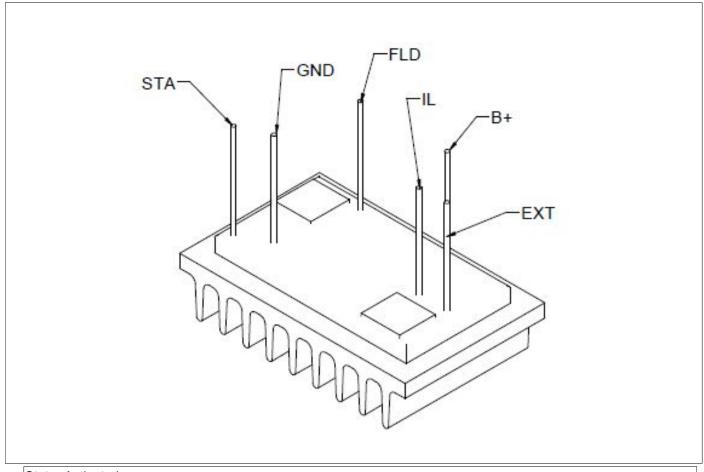


Page 443 Product Group IH-42 Revision: Date : 1/6/2021

for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI744	Α	12	14,4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the set point should be 15.3+/-0.2v.
 - 2. Reconnect Sense, remove Stator, the Lamp comes on and the voltage goes to 12.0V.
 - 3. Reconnect Stator and push the 'Over Voltage' button on the panel, the Lamp comes on.



Stator Activated

Page 444 Product Group TRI-26 Revision: Date: 1/6/2021

MITSUBISHI

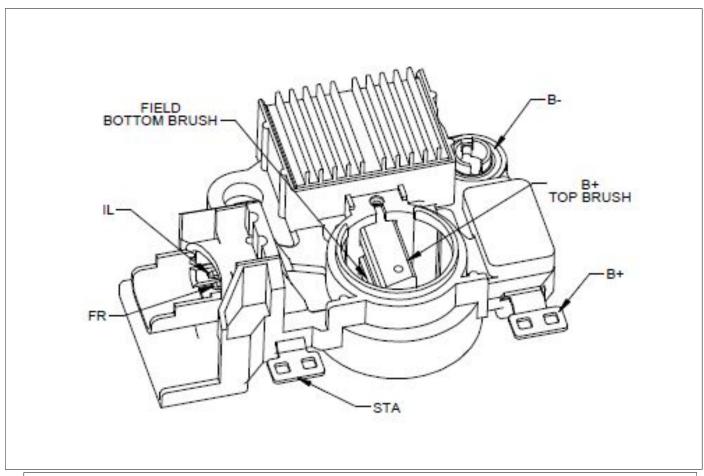
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM498	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp comes on.

for

2. Reconnect Stator, push the 'Choke Drive' button on the panel, the Lamp comes on.



Light Activated.

Page 445 Product Group IM-73 Revision: Date : <u>1/6/2021</u>

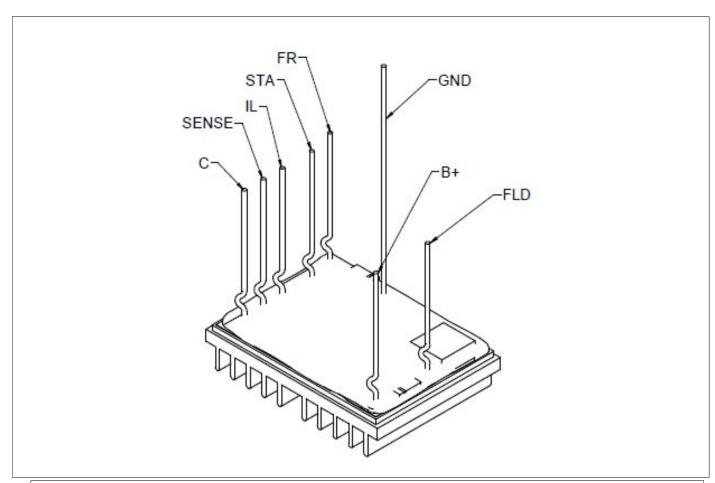
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI341	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Sense, the set point should be 15.5+/-0.2v.
- 2. Reconnect Sense, remove Stator, the Lamp comes on and the voltage goes to 12.0V.
- 3. Reconnect Stator and push the 'Over Voltage' button on the panel, the Lamp comes on.



*Connect Black Test Lead to terminal marked "C", voltage will drop to approximately 12.5v.

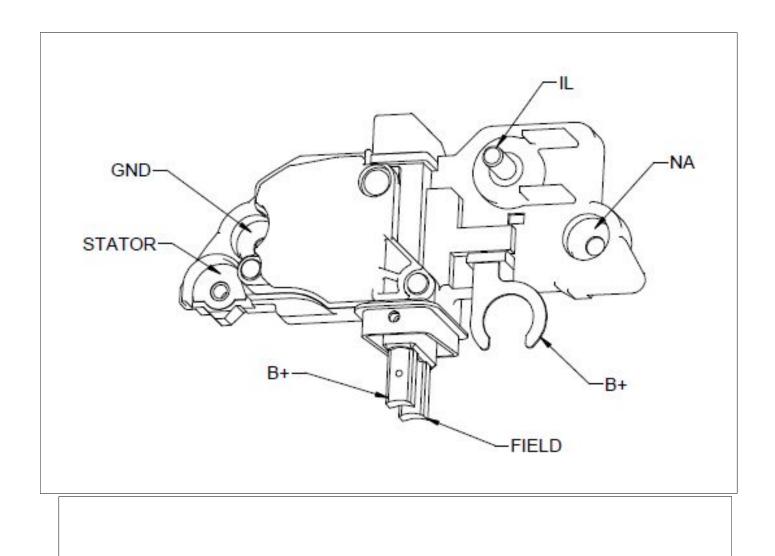
Page 446 Product Group TRI-24 Revision: Date: 1/6/2021

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB248	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove White Test lead from Stator Terminal, Lamp will come on, display will show 12 volts and field light will stay on. Remove Green Test lead and field light will turn off.



Page 447 Product Group IB-43 Revision: Date : <u>1/6/2021</u>

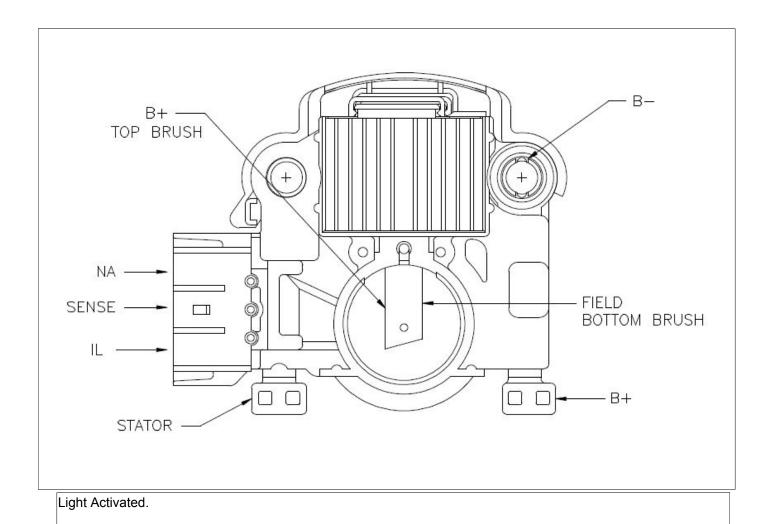
type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM480	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect SENSE, the set point should be 15.6 +/- 0.2V, and the Light comes on.
 - 2. Reconnect SENSE, disconnect STATOR, the Light comes on.

for



Page 448 Product Group IM-72 Revision: Date: <u>1/6/2021</u>

NIPPONDENSO

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6343	В	12	13.5				

type regulators

1.	1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator								

- as indicated in the diagram or as described in the 'Amendments or Additional Test' notes. Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON:
- Voltage noted in the table above.

3. Amendments or Additional Tests:

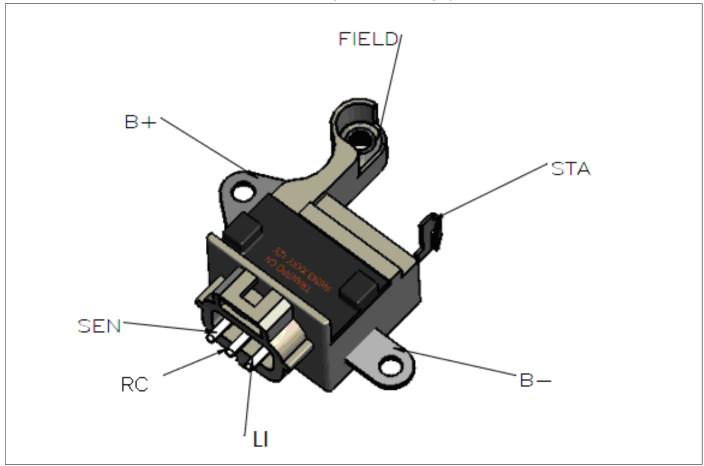
Disconnect Sense, the setpoint should be 13.85+/-0.2V, then reconnect.

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to VRC2010 tester.

1. Adjust Comm Voltage switch to position 13, Setpoint is 12.9V.

for

- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.8V.
- * The 13.5V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



RC or STATOR activa	ated		

Product Group IN-93 Date: 1/6/2021 Revision: Page

NIPPONDENSO

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6349	В	12	13.5				
IN6368	В	12	13.5				

type regulators

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

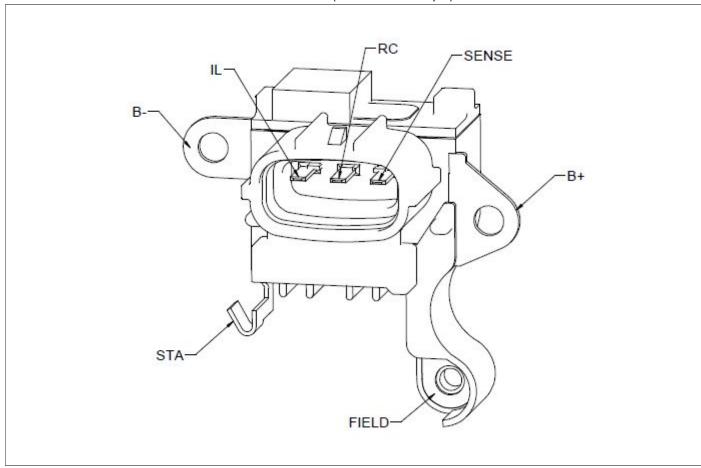
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect Sense, the setpoint should be 13.85+/-0.2V, then reconnect.

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 12.9V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.8V.
- * The 13.5V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



RC or STATOR activated

Page 450 Product Group IN-94 Revision: Date: 1/6/2021

type regulators

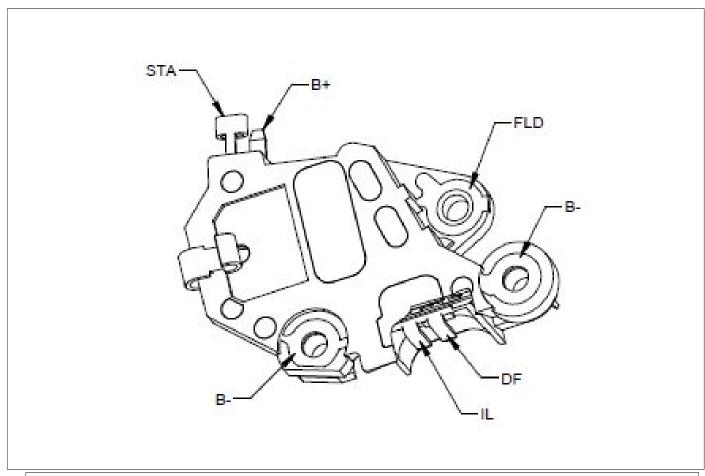
DELCO

		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE1650	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Push the Over Voltage button on the panel, the Lamp Light comes on.

for

2. Push the Choke Drive button on the panel, the Choke Light comes on.



Stator Activated.

Page 451 Product Group D-48 Revision: Date : 1/6/2021

NIPPONDENSO

PART NO. FLD VOLT SET POINT PART NO. FLD VOLT SET POINT

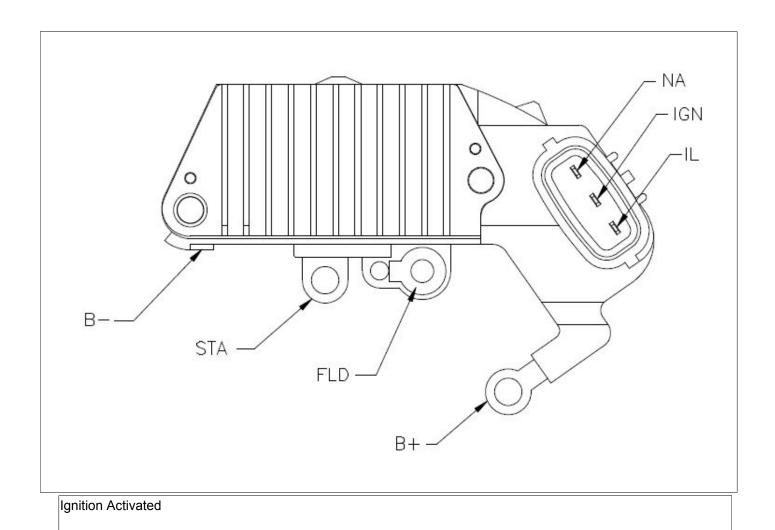
IN248 A 12 14.4

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Page 452

1. Push the Choke Drive button on the panel, the Choke light comes on.



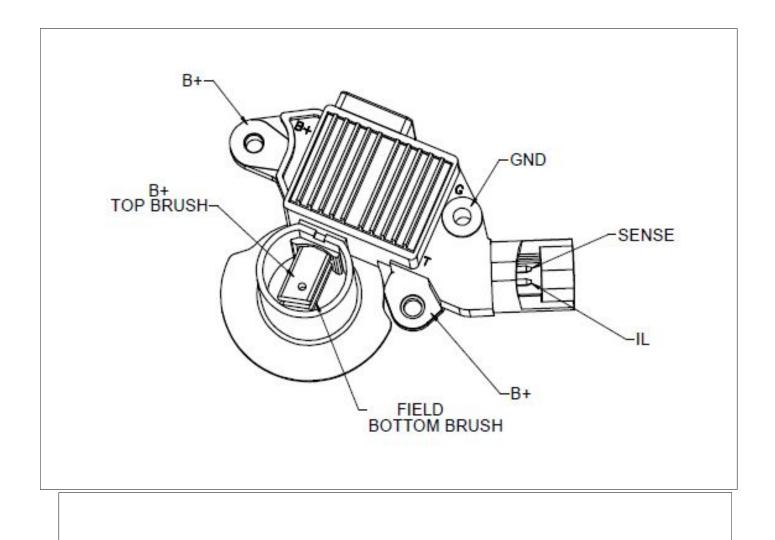
Revision:

Date: 1/6/2021

Product Group IN-43

		тог	DELCO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D850							

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 453 Product Group D-61 Revision: Date: 1/6/2021

type regulators

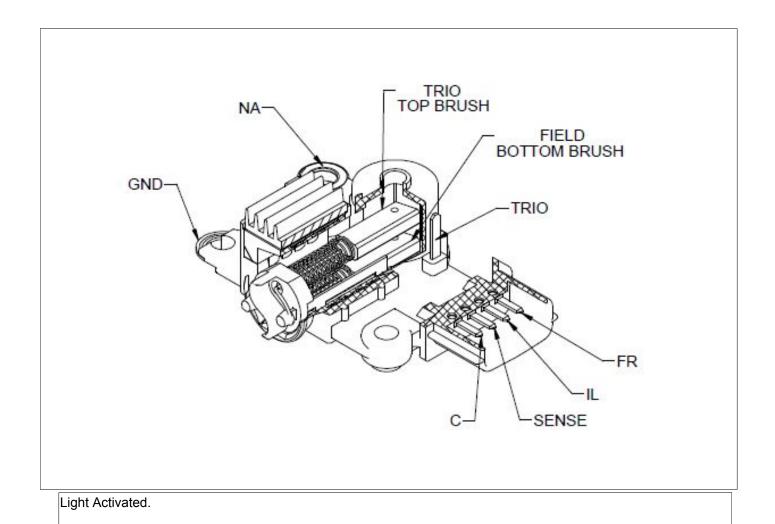
MANDO

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY146	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect SENSE, the setpoint should be 15.3+/-0.2V,

for

2, Reconnect SENSE, then connect C terminal to the B-, the setpoint should be 12.7+0.2v/-0.3v.

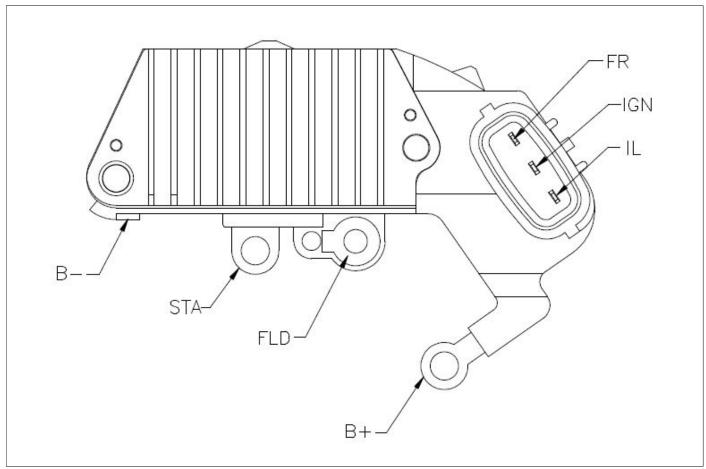


Page 454 Product Group IY-09 Revision: Date: 1/6/2021

NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN330	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Ignition Activated.

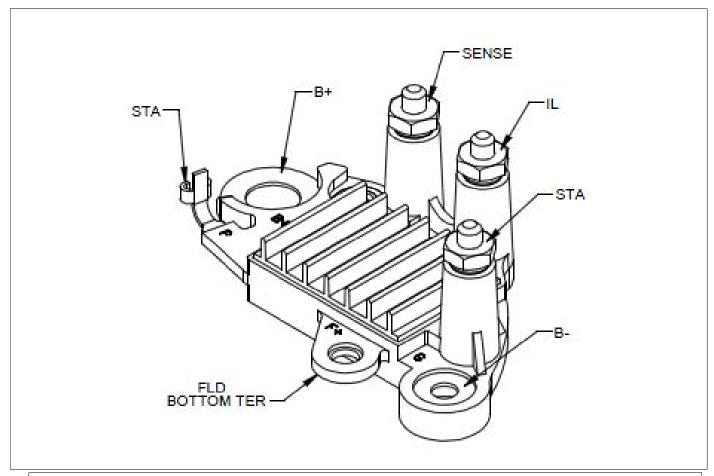
Page 455 Product Group IN-53 Revision: Date : <u>1/6/2021</u>

		for	DELCO	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
D1332	В	12	14.5					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Sense, the set point should be 14.5 +/-0.2V.
- 2. Reconnect Sense and disconnect Stator, the Light Lamp comes on, and the Field Lamp dims.
- 3. Reconnect Stator, push the Over Voltage button on the panel, the Light Lamp comes on.
- 4. Push the Choke Drive button on the panel, the Choke Lamp comes on.



- Stator Activated
- Over Voltage Lamp
- Under Voltage Lamp
- Field, Lamp short circuit protection
- Active Lamp With Output

Page 456 Product Group D-49 Revision: Date: 1/6/2021

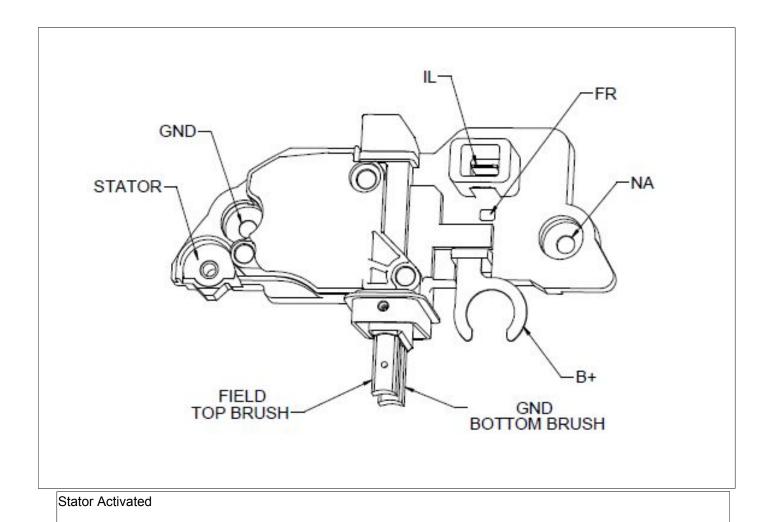
type regulators

BOSCH

				, p			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5369	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Push the Choke Drive button on the panel, the Choke Light comes on.
 - 2. Disconnect Stator, the Lamp Light comes on, the Field Lamp is dim.

for



Page 457 Product Group IB-44 Revision: Date : <u>1/6/2021</u>

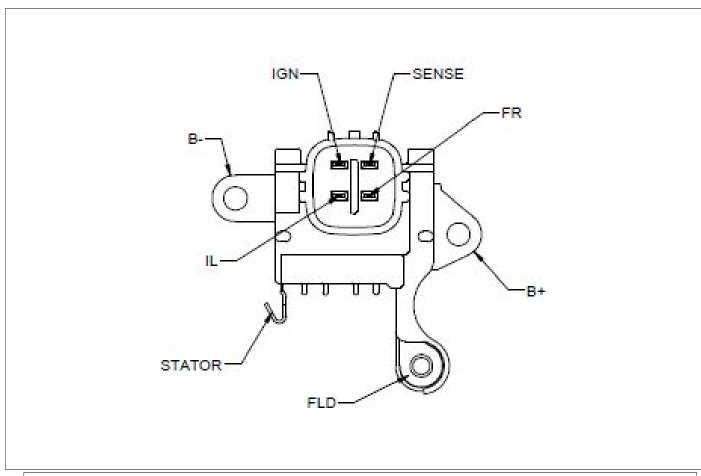
NIPPONDENSO type regulators PART NO FI D VOLT SET POINT FLD VOLT SET POINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6015	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Sense, the setpoint should be 13.9+/-0.2V and the Lamp Light comes on.
- 2. Reconnect Sense, and disconnect Stator, the Lamp Light comes on, and the field Light is dim.



Ignition Activated.

Product Group IN-75 Date: 1/6/2021 Revision: Page 458

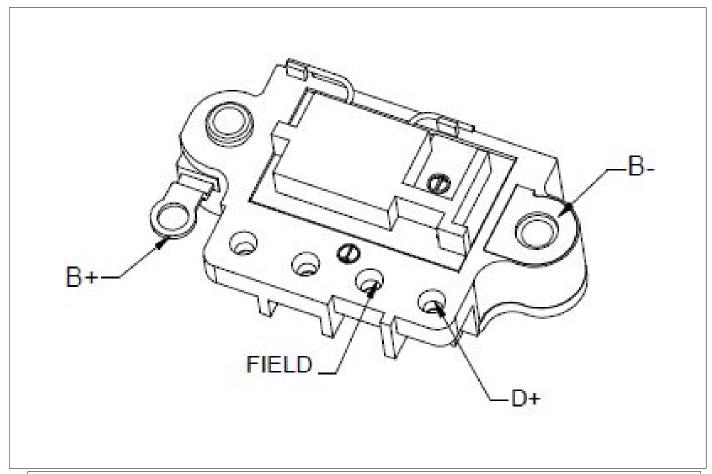
NIPPONDENSO

PART NO. FLD VOLT SET POINT PART NO. FLD VOLT SET POINT

IN9254 A 24 27.9

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



D+ Activated/Excited.

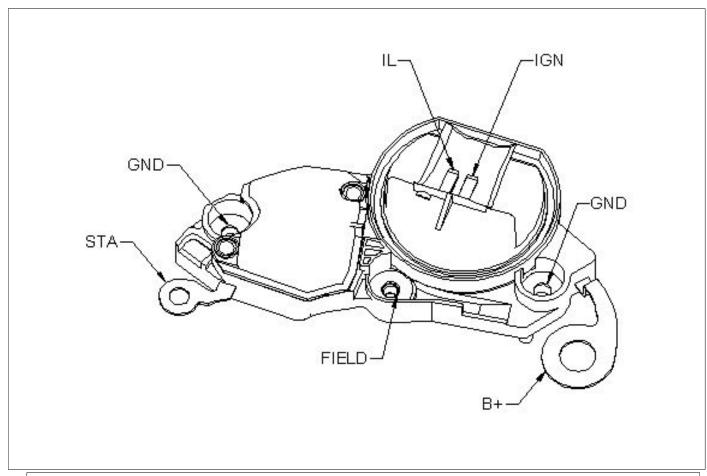
Page 459 Product Group IN-99 Revision: Date : 1/6/2021

		for	воѕсн	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB200	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indicator comes on and the Field Circuit LED should be dim.
- 2. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator comes on.
- 3. Push the Choke Drive button on the panel, the Choke Drive Indicator comes on.



- · VSet 14.4 +/- 0.2
- 15-61E Terminals (15=IGN, 61E=IL/Lamp)
- · With Soft Start & LRC
- Ignition, Lamp, or Stator Activated
- Active Lamp With Output

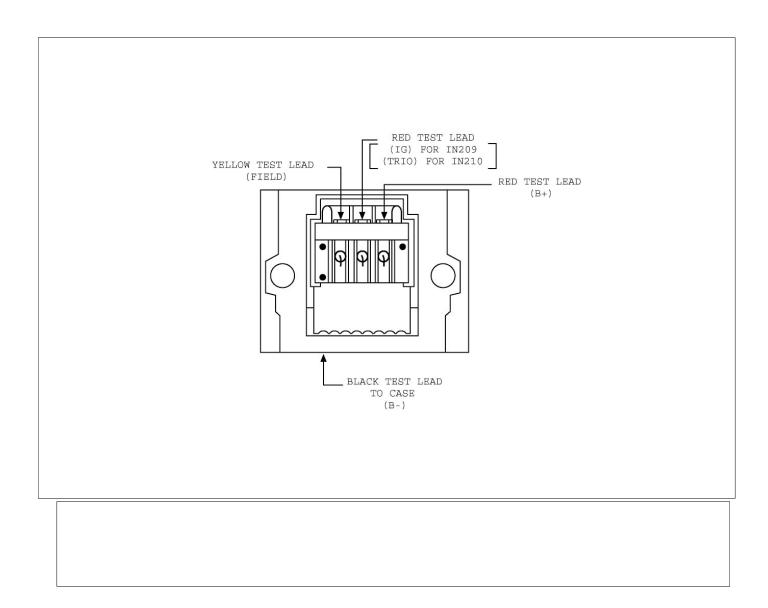
Page 460 Product Group IB-45 Revision: Date: 1/6/2021

NIPPONDENSO

PART NO. FLD **VOLT SET POINT** PART NO. FLD VOLT **SET POINT IN209** Α 12 14.5 **IN210** Α 12 14.5

type regulators

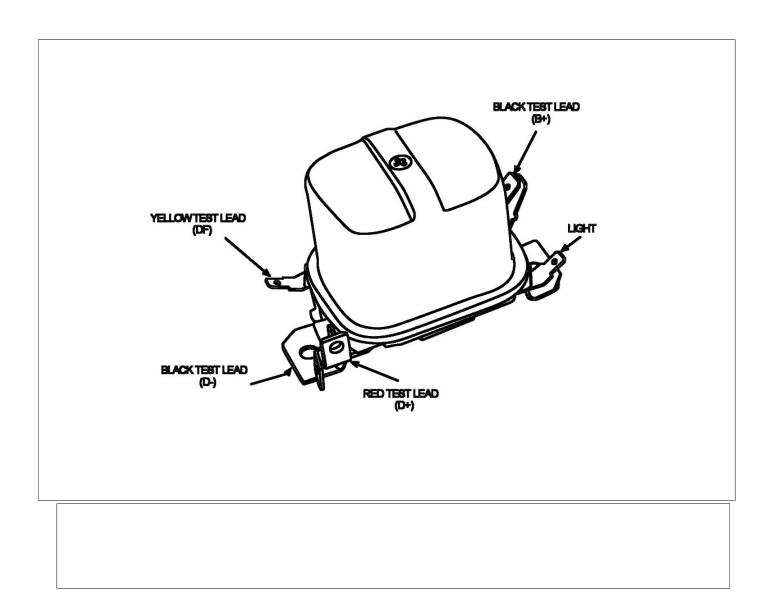
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 461 Product Group IN-01 Revision: 3/26/1998 Date : <u>1/6/2021</u>

		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB390	Α	Α	14.5				

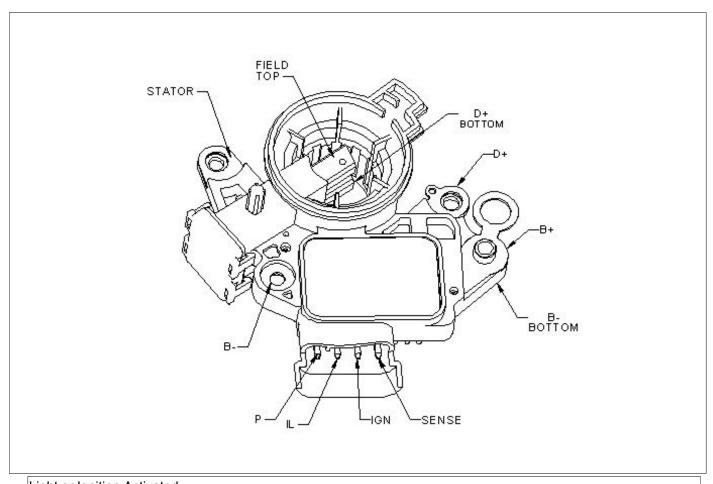
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 462 Product Group IB-46 Revision: 11/28/1900 Date : <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D2295	Α	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the set point should be 15.55+/-0.2V.



Light or Ignition Activated.

Page 463 Product Group D-50 Revision: Date : 1/6/2021

for TE REPAIR CIRCUIT type regulators

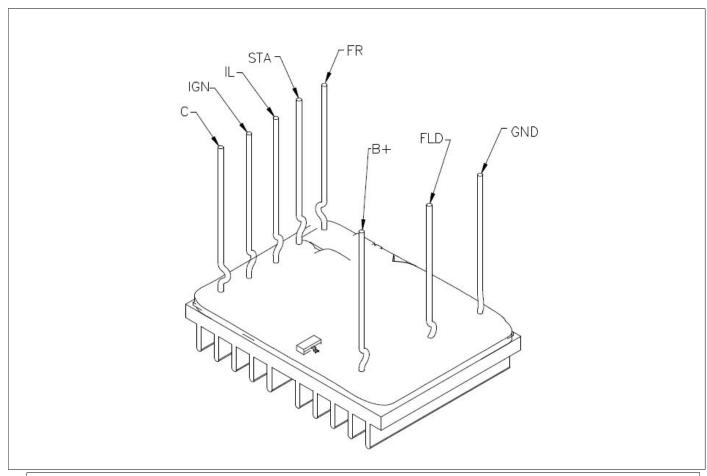
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI851HD	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not conncet FR and C.

- 1. Disconnect Stator, the Lamp Indicator comes on and the Field Circuit LED should be dim.
- 2. Reconnect Stator, and connect the C terminal to B-, the set point should be 12.6+/-0.2V.
- 3. Disconnect C terminal, push the Over Voltage button on the panel, the Lamp Indicator comes on.



- Lamp Activated
- · With soft start and LRC
- · Over Voltage Lamp function

Page 464 Product Group TRI-23 Revision: Date: 1/6/2021

NIPPONDENSO

PART NO. FLD **VOLT** SET POINT PART NO. FLD VOLT SET POINT

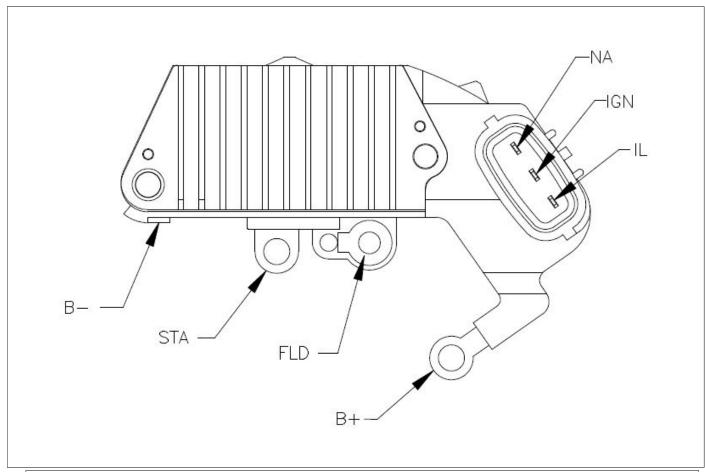
type regulators

			02110111	 	1021	02110111
IN373	Α	24	28.4			

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indicator comes on, and the Field Circuit LED comes dim.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator comes on.

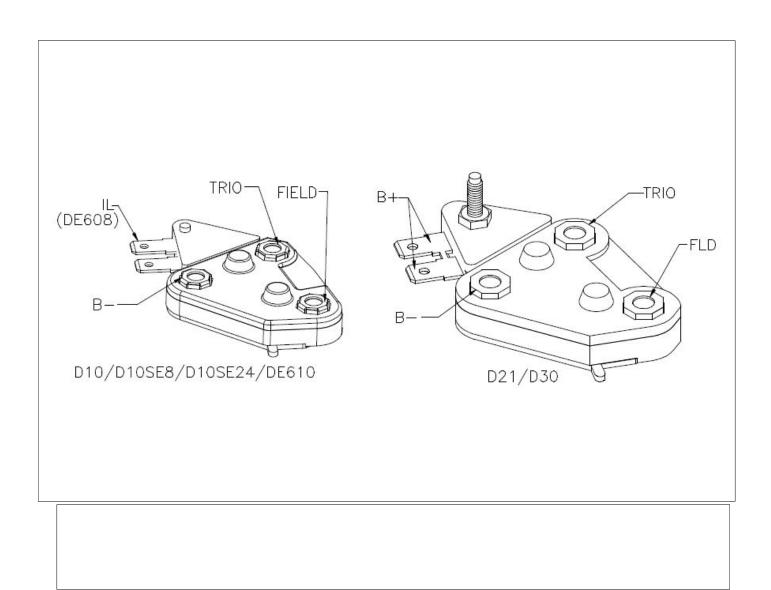


Ignition Activated Active Lamp -- With Output With Soft Start

> Product Group IN-59 Date: 1/6/2021 Revision: Page 465

		for	DELCO	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D10	Α	12	14.8	D21	Α	12	14.0
D10SE8	Α	8	9.6	DE610	Α	12	14.7
D10SE24	Α	24	27.5	D30	Α	24	27.5
DE608	Α	12	14.7				

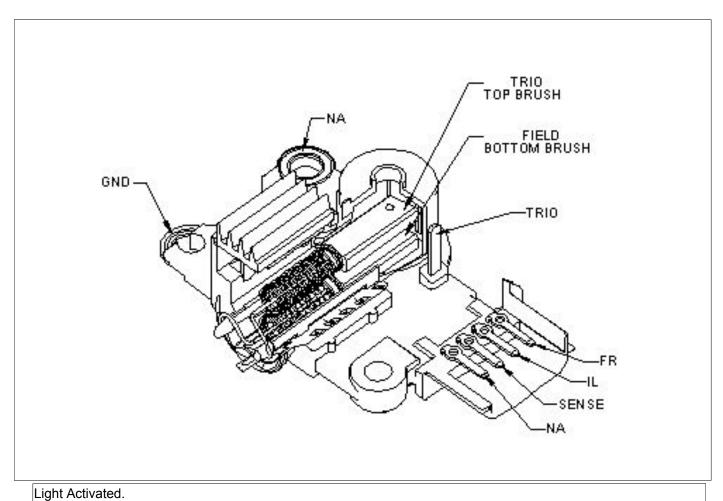
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 466 Product Group D-01 Revision: Date : <u>1/6/2021</u>

		for	MANDO	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY145	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should be 15.3+/-0.2v.



Page 467 Product Group IY-08 Revision: Date : 1/6/2021

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5353	А	12	14.4				

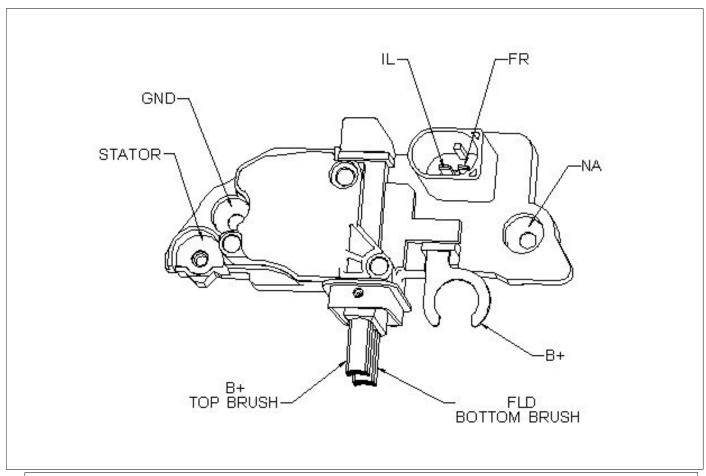
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from terminal marked "Stator" - the Field light and Lamp will come on and Voltage will show 12 volts.

Push the Choke Drive button on the panel, the Choke Drive Indicator will come on.



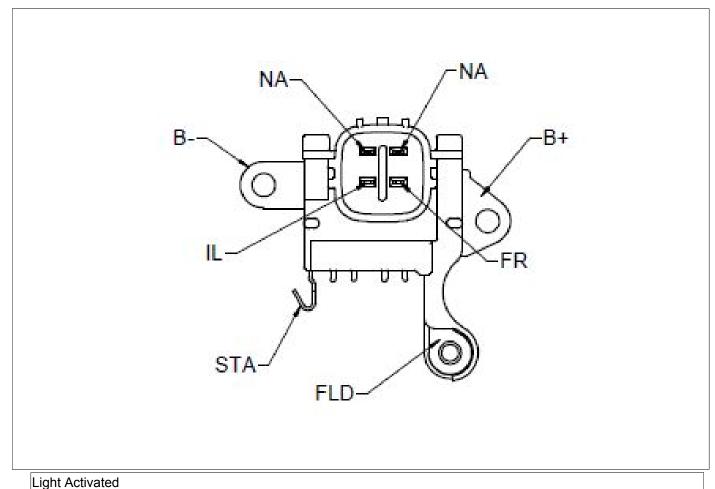
- L-FR Terminals
- With LRC and Soft Start
- Active Lamp Circuit with Output
- VRC101-34 adapter shown for enhance stator signal, not all late model regulators need enhance signal

Page 468 Product Group IB-47 Revision: Date: 1/6/2021

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6308	В	12	14.45				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indicator comes on and the Field Circuit LED will dim.



Soft Start
2.2s LRC

Page 469 Product Group IN-83 Revision: Date : <u>1/6/2021</u>

VALEO

				,po regulation			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M512HD	Α	12	14.6				

type regulators

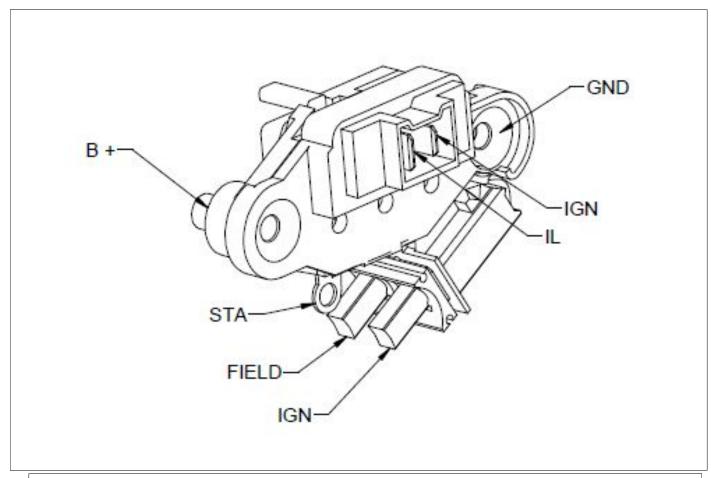
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Push the Over Voltage button on the panel, the Lamp Indicator comes on.
- 2. Disconnect Stator, the Lamp Indicator comes on.

for



Ignition Activated With Soft Start Over Voltage and Under Voltage lamp

Page 470 Product Group M-20 Revision: Date: 1/6/2021

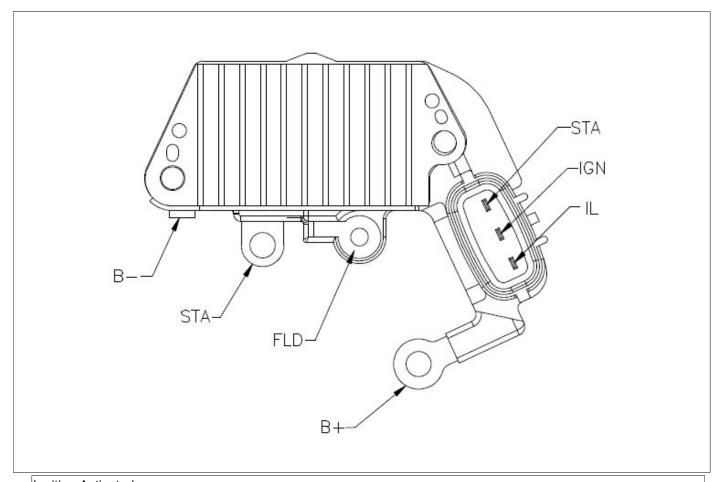
NIPPONDENSO type regulators FLD **VOLT** SET POINT PART NO. FLD VOLT SET POINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN348	A	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indicator comes on.
- 2. Reconnect Stator, Push the Choke Drive button on the panel, the Choke Drive Indicator should be on.



Ignition Activated Soft Start Under Voltage Lamp P-IG-L Terminal Function Active Lamp -- With Output

> Product Group IN-56 Date: 1/6/2021 Revision: Page 471

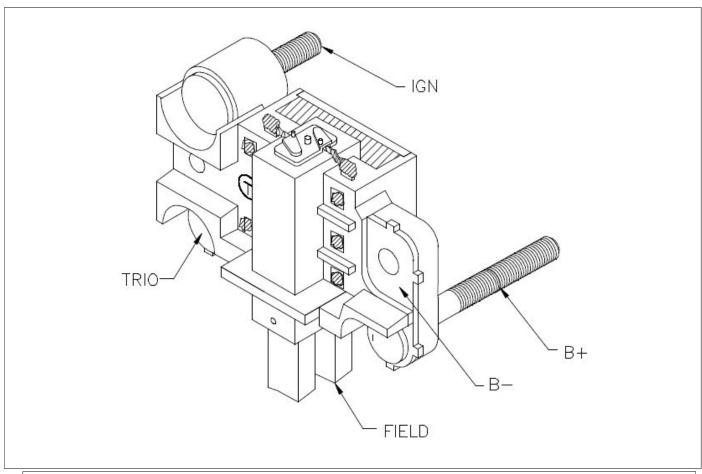
type regulators

MANDO

					0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY289	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should be 15.6+/-0.2V.

for

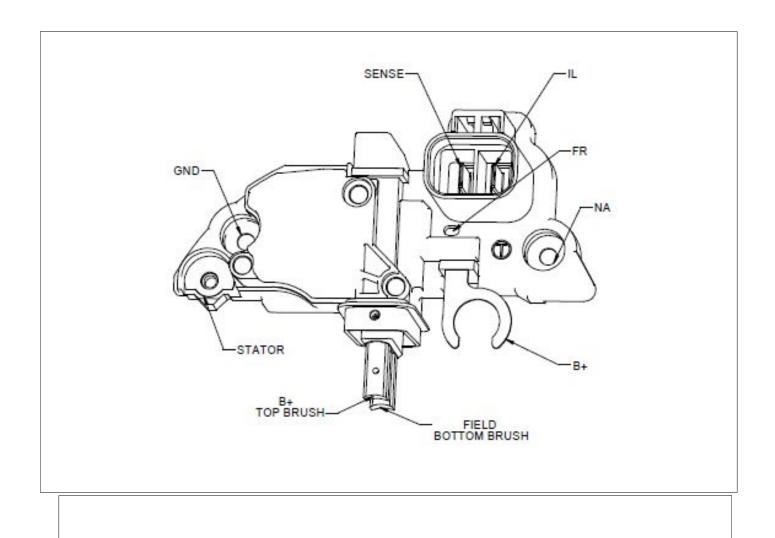


Ignition Activated.

Page 472 Product Group IY-10 Revision: Date : 1/6/2021

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB347	А	12	14.5				

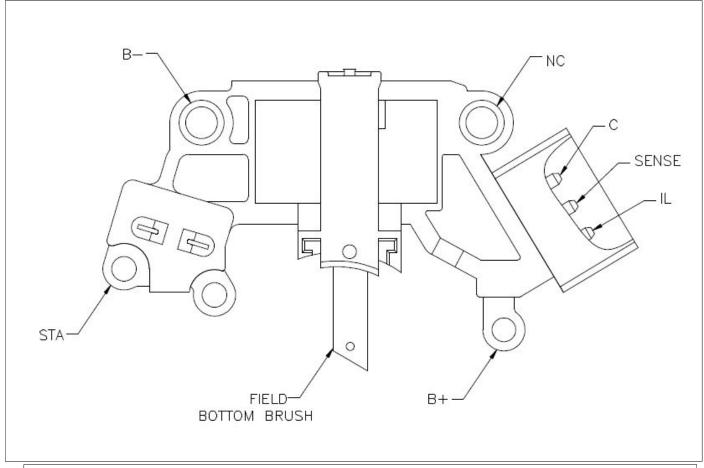
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 473 Product Group IB-60 Revision: Date: 1/6/2021

		for	HITACHI	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH743	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint is 15.3+/-0.2V
 - 2. Reconnect Sense, connected C to B-, the setpoint should be 12.75+0.25/-0.15V.
 - 3. Disconnect C, disconnect Stator, the Lamp Indicator comes on.
 - 4. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator comes on.



Lamp Activated.
Over Voltage, Under Voltage Lamp.

Page 474 Product Group IH-45 Revision: Date: 1/6/2021

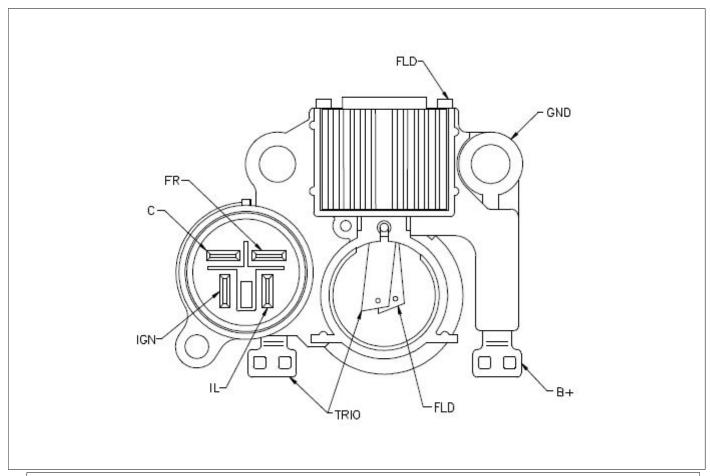
type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM844	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Connect C to B-, the setpoint should be 12.6-0.5/+0.4V.

for



Ignition Activated.

Trio input turns off charge indicator lamp.

Page 475 Product Group IM-84 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO

 PART NO.
 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

 IN454
 B
 12
 14.6
 Image: Control of the control of

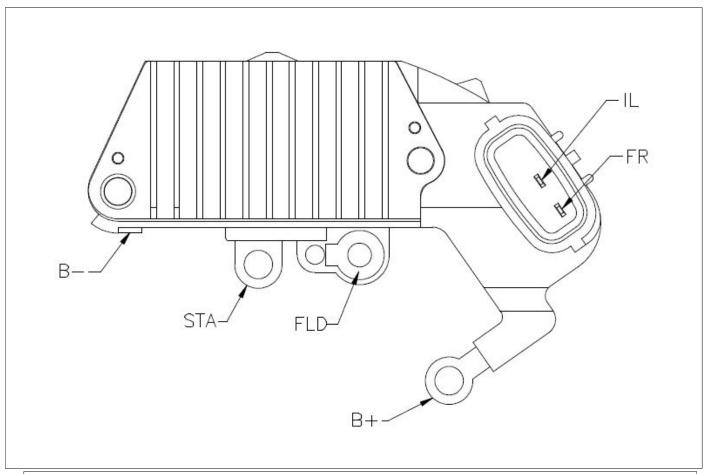
type regulators

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

1. Disconnect Sense, the Lamp Indicator comes on.



Stator or Light Activated. Under Voltage Lamp Soft Start & LRC function.

Page 476 Product Group IN-65 Revision: Date : <u>1/6/2021</u>

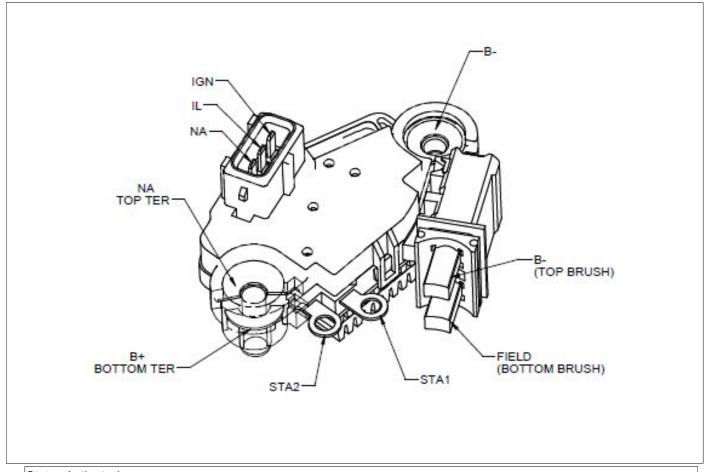
		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M527	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

- 1. disconnect Stator, the Lamp Indicator comes on, and the Field Circuit led should be dim.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator comes on.



Stator Activated.
Soft Start & LRC function
Active Lamp -- With Output

Page 477 Product Group M-23 Revision: Date: 1/6/2021

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6329	В	12	13.8				

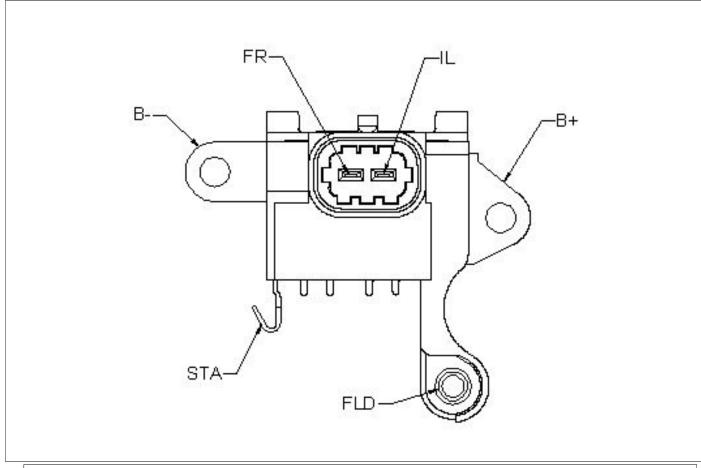
NIPPONDENSO type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing:

- 1. Connect RC terminal to VRC2010 tester.
- 2. Adjust Comm Voltage switch to position 13, Setpoint is 11.8.
- 3. Adjust Comm Voltage switch to position 14, Setpoint is 13.3V.
- 4. Adjust Comm Voltage switch to position 15, Setpoint is 14.4V.
- * The 13.8V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



Stator or RVC Activated

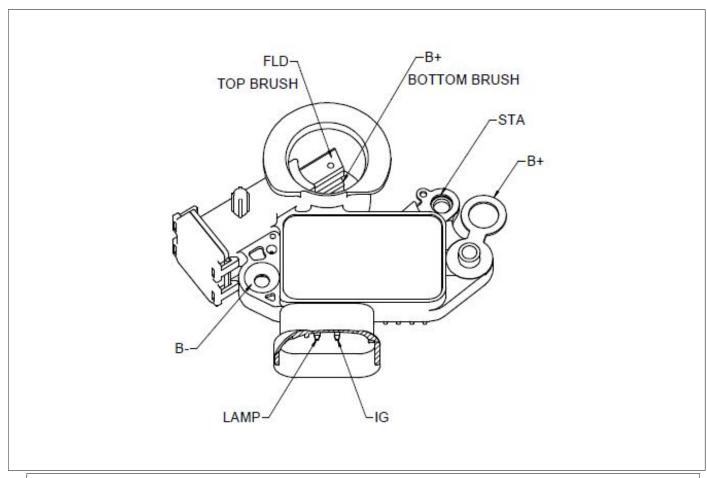
Page 478 Product Group IN-88 Revision: Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D2206	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indicator comes on.
- 2. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator should be on.
- 3. Push the Field Diode button on the panel, the Field Diode LED should be on.



Soft Start & LRC function Ignition or Light Activated Over Voltage and Under Voltage Lamp Standard Lamp -- Without output

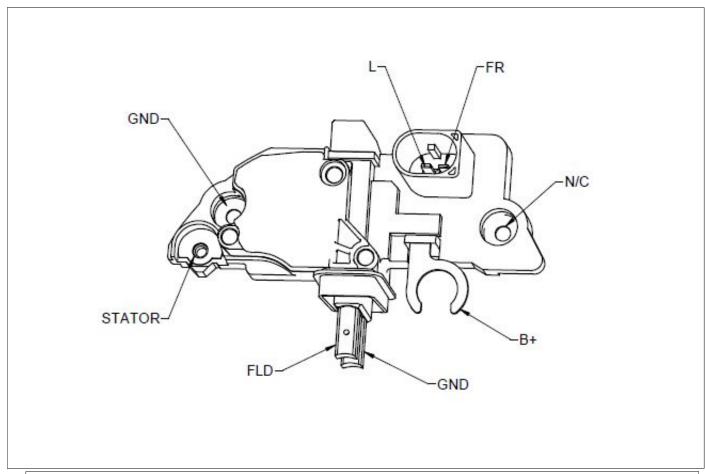
Page 479 Product Group D-51 Revision: Date: 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB861	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indicator comes on.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator comes on.



Stator or Light Activated. Soft Start & LRC function Active Lamp -- With Output

Page 480 Product Group IB-48 Revision: Date: 1/6/2021

type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM472HD	Α	12	14.5				

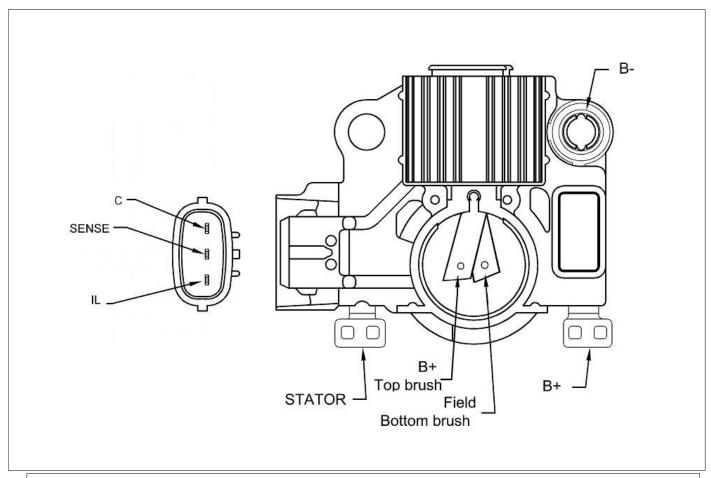
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

1. Disconnect Sense, the setpoint should be 15.6+/-0.2V.

for

- 2. Reconnect sense, and connect C to B-, the setpiont should be 12.7+/-0.2V.
- 3. Disconnect C, Disconnect Stator, the Lamp Indicator comes on.
- 4. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator should be on.



Light Activated
Soft Start & LRC function
With C-function
Over Voltage Lamp
Standard Lamp -- Without Output

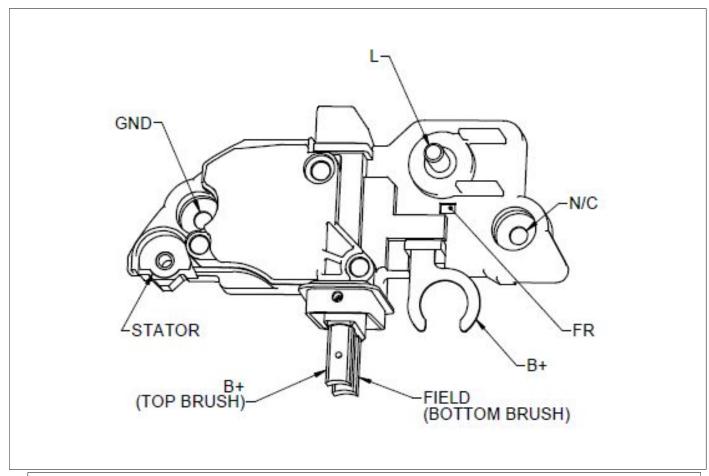
Page 481 Product Group IM-69 Revision: Date: 1/6/2021

		tor	BOSCH	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB677	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indicator comes on.
- 2. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator comes on.
- 3. Push the Choke Drive button on the panel, the Choke Drive Indicator comes on.



Light or Stator Activated
Soft Start
2 seconds LRC
Over Voltage Lamp
Active Lamp -- With Output

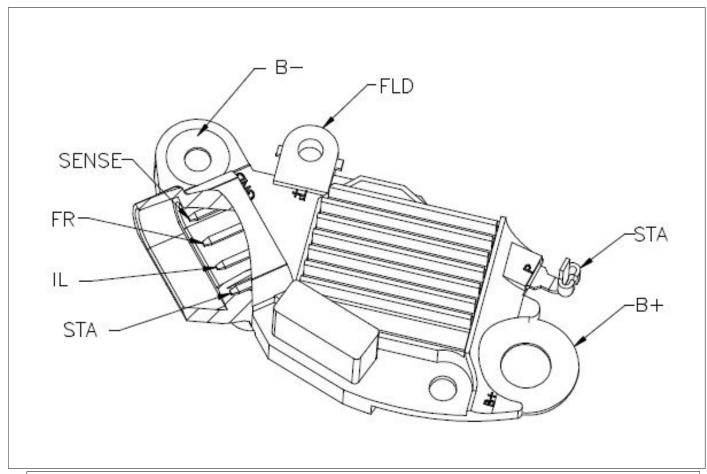
Page 482 Product Group IB-49 Revision: Date: 1/6/2021

		for	DELCO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D3232	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Sense, the setpoint should be 14.2+/-0.2V.
- 2. Reconnect Sense, disconnect Stator, the Lamp Indicator comes on.
- 3. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator comes on.

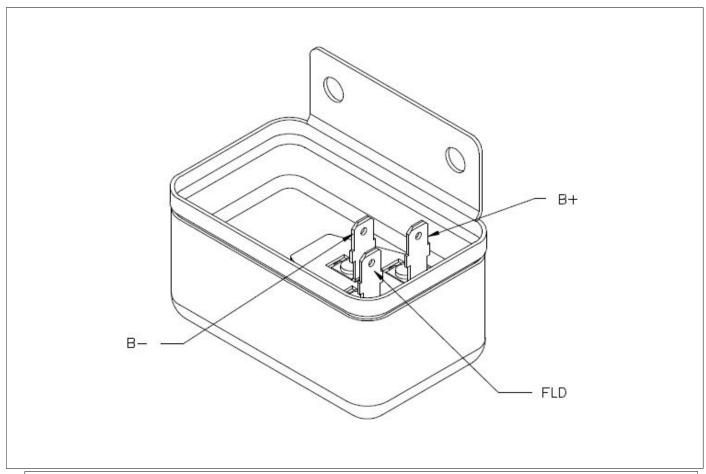


Light Activated
Soft Start
2.5s LRC function
Over Voltage, Under Voltage Lamp
Standard Lamp -- Without Output

Page 483 Product Group D-52 Revision: Date: 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB307BZ	В	24	28.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Trio Excited.
Trio connected to Light

Page 484 Product Group IB-50 Revision: Date : 1/6/2021

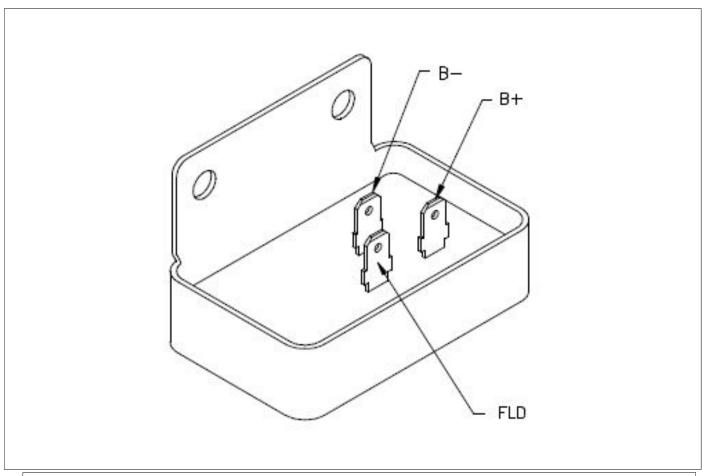
type regulators

BOSCH

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB308BZ	В	24	28.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Trio Excited.

Trio connected to Light.

Page 485 Product Group IB-51 Revision: Date : <u>1/6/2021</u>

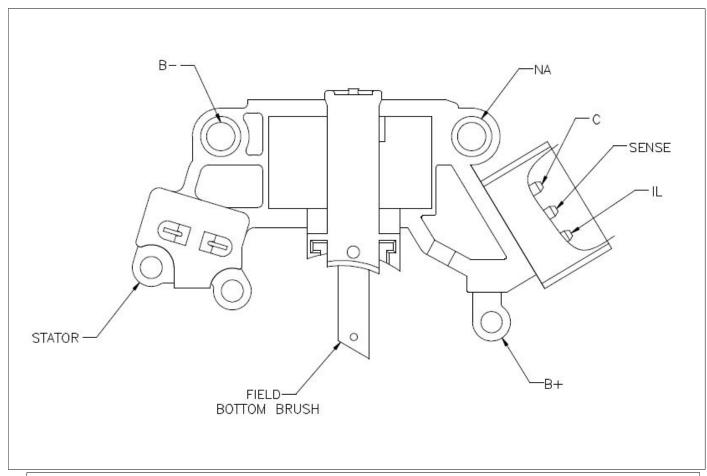
		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH741	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect the C terminal to VRC2010, push the COMPUTER button to check the C function.

- 1. Disconnect Sense, the setpoint should be 15.2+/-0.2V
- 2. Reconnect Sense, disconnect Stator, the Lamp Indicator comes on.
- 3. Reconnect Stator, connect C to VRC2010, the setpoint should be 13.0+/-0.2V.



Light Activated.

Soft start

9s LRC

Field, Lamp short circuit protection

Standard Lamp, without output

Page 486 Product Group IH-44 Revision: Date: 1/6/2021

type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM545	Α	12	14.4				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

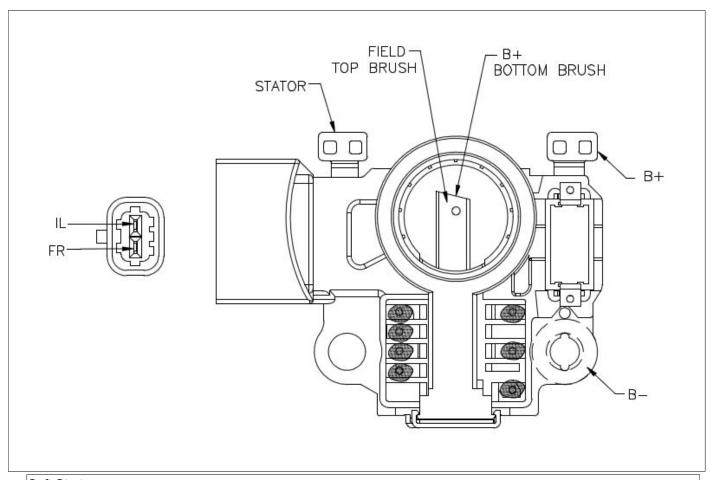
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

1. Disconnect Stator, the Lamp Indicator comes on.

for

2. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator comes on.



Soft Start
2.5s LRC
Light Activated
Over Voltage, Under Voltage Lamp
Standard Lamp -- Without Output

Page 487 Product Group IM-76 Revision: Date: 1/6/2021

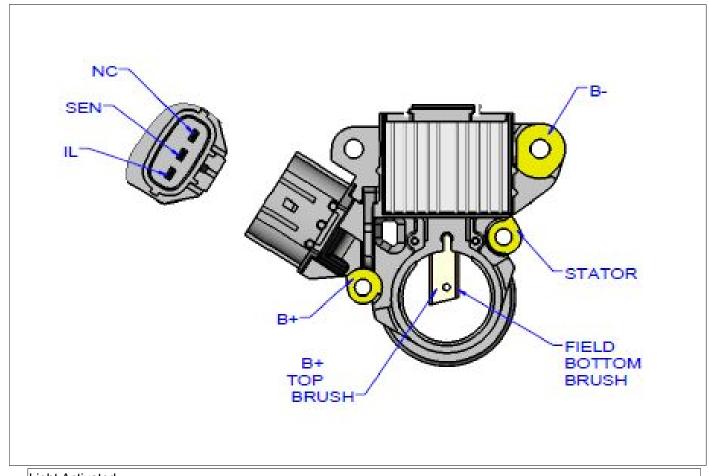
MITSUBISHI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM564	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Sense, the setpoint should be 15.6V+/-0.2v, the Lamp Indicator comes on.
- 2. Reconnect Sense, disconnect Stator, the Lamp Indicator should be on.
- 3. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indicator comes on.



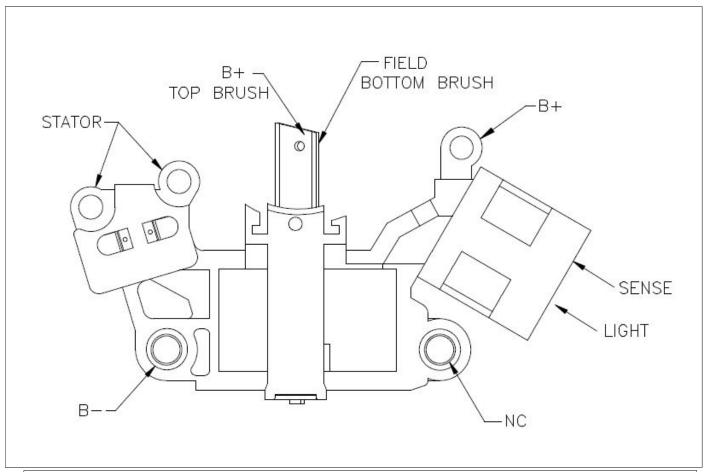
Light Activated.
Soft Start function
5.5s LRC
Over Voltage Lamp

Standard Lamp -- Without output

Page 488 Product Group IM-79 Revision: Date: 1/6/2021

		тог	HITACHI	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH737	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should be 15.3+/-0.2V.
 - 2. Reconnect Sense, disconnect Stator, the Light should be on.



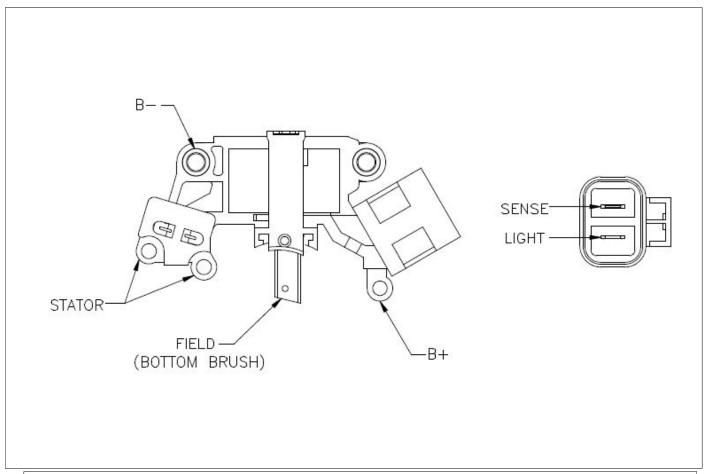
Light Activated. Soft Start 9.2 seconds LRC

Standard Lamp -- Without Output

Page 489 Product Group IH-43 Revision: Date: 1/6/2021

		тог	HITACHI	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH745	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should be 15.3+/-0.2V.
 - 2. Reconnect Sense, disconnect Stator, the Light should be on.



Light Activated.

Soft Start

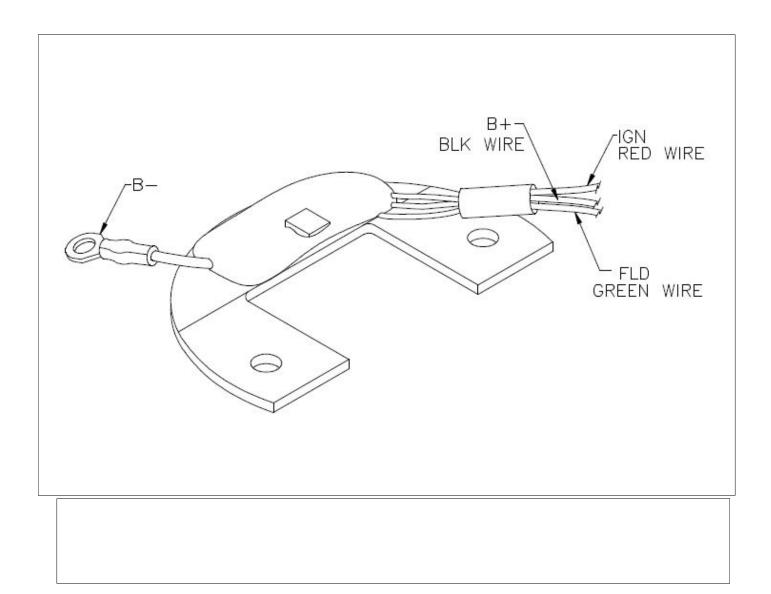
9 seconds LRC

Standard Lamp -- Without Output

Page 490 Product Group IH-46 Revision: Date: 1/6/2021

		10r	HARLEY	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
H8615	А	12	15.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



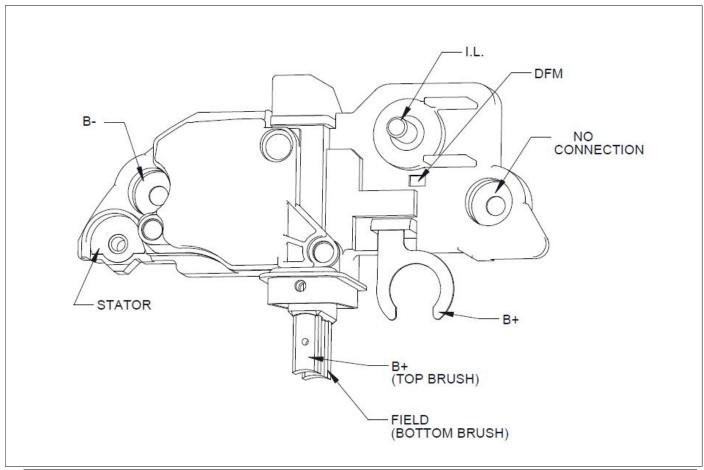
Page 491 Product Group IH-0 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB227	Α	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Push the Over Voltage button on the panel, the Lamp Indicator comes on.
- 2. Disconnect Stator, the Lamp Indicator comes on.



Light Activated Soft Start 3 seconds LRC OV, UV Lamp

Page 492 Product Group IB-52 Revision: Date: 1/6/2021

type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM547	Α	12	14.5				

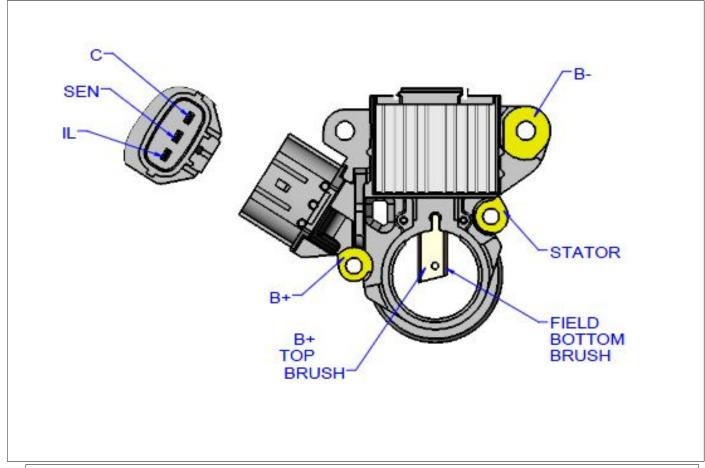
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

1. Disconnect Sense, the setpoint should me 15.5+/-0.2V.

for

- 2. Reconnect Sense, connect C to B-, the setpoint should be 13.1+/-0.2V.
- 3. Disconnect C, disconnect Stator, the Lamp Indication comes on.
- 4. Reconnect Stator, the Lamp Indication comes on



Light Activated.

Soft Start function.

6 seconds LRC

Field, Lamp short circuit protection

Standard Lamp -- Without Output

Page 493 Product Group IM-77 Revision: Date: 1/6/2021

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M550	В	12	14.45				

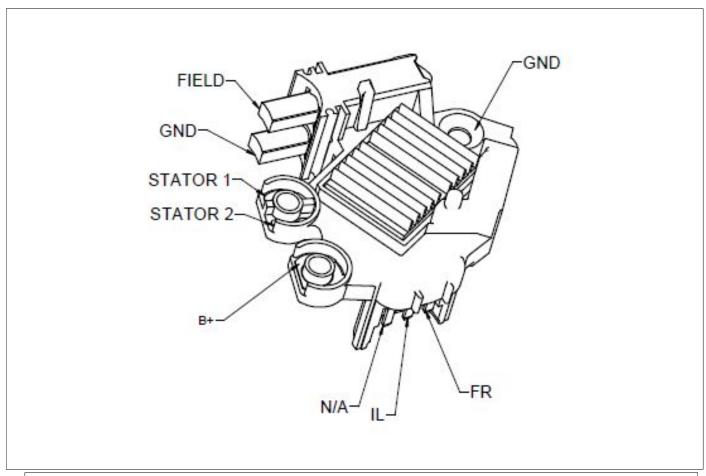
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

1. Disconnect Stator, the Lamp Indicator comes on.



Stator or Light Activated. Soft Start function.

4 seconds LRC

Under Voltage Lamp

Standard Lamp -- Without Output

Page 494 Product Group M-36 Revision: Date: 1/6/2021

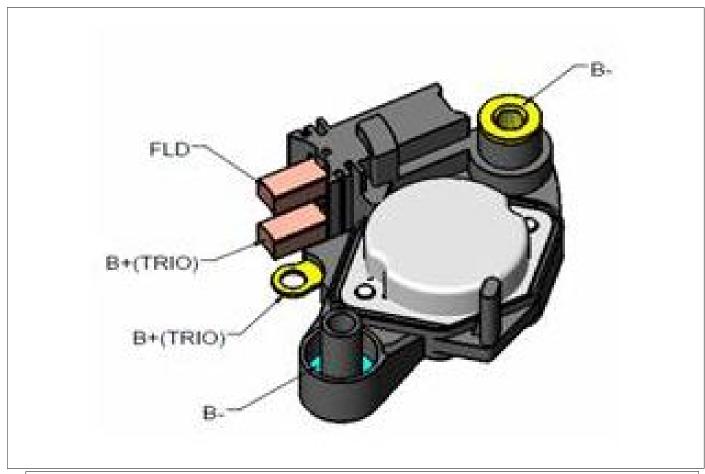
type regulators

VALEO

for

			.,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M511V	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



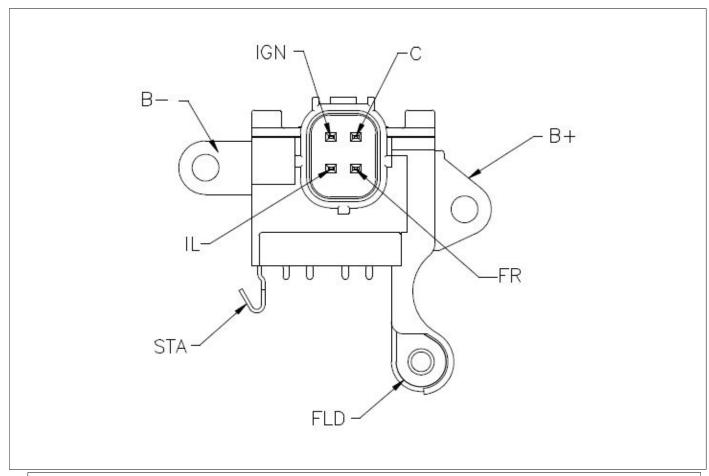
Trio Excited.

Page 495 Product Group M-18 Revision: Date : <u>1/6/2021</u>

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6365	В	12	14.35				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indicator comes on.
 - 2. Reconnect Stator, connect C terminal to B-, the setpoint should be 12.7+/-0.2V.



Ignition Activated.

C function

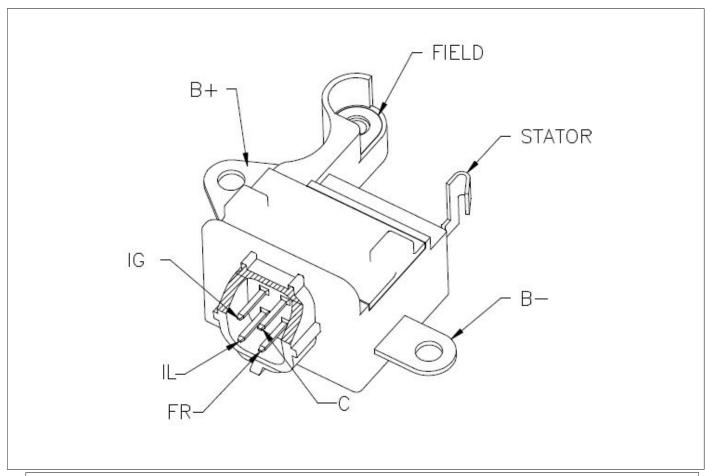
Standard Lamp Function -- Without Output.

Page 496 Product Group IN-95 Revision: Date: 1/6/2021

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6366	В	12	14.46				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indicator comes on.
 - 2. Reconnect Stator, connect C terminal to B-, the setpoint should be 12.8+/-0.2V.



Ignition Activated.

C function

12 seconds LRC

Standard Lamp -- Without Output

Page 497 Product Group IN-96 Revision: Date: 1/6/2021

type regulators

NIPPONDENSO

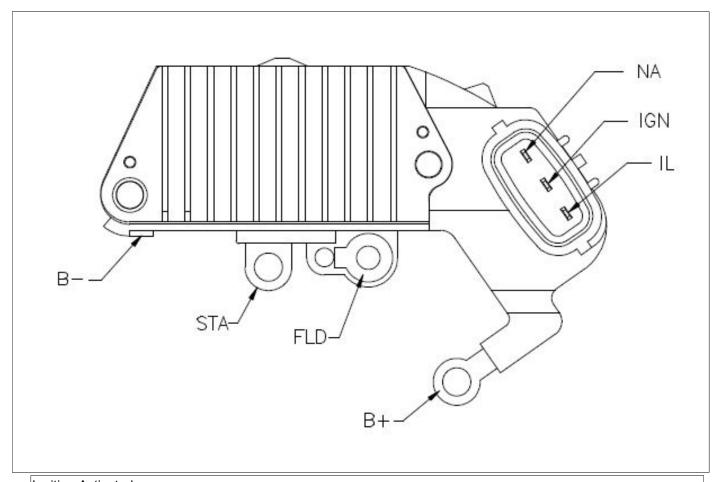
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN332	Α	12	14.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

1. Disconnect Stator, the Lamp Indication comes on.



Ignition Activated. Soft start.

9 seconds LRC.

Under voltage Lamp

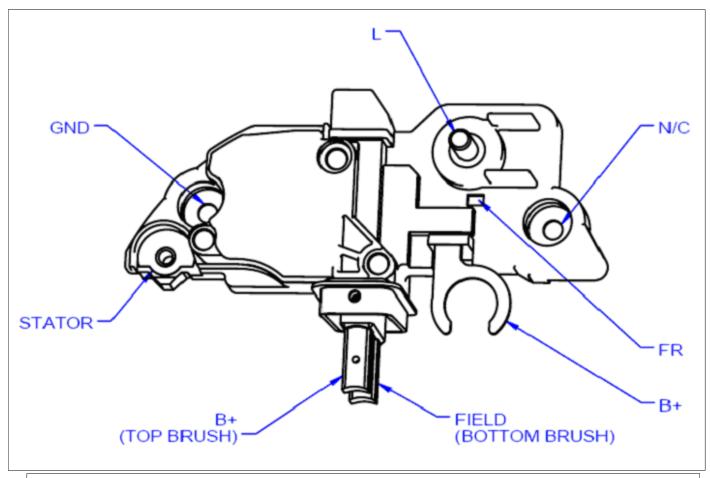
Page 498 Product Group IN-54 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB313	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indication comes on.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indication comes on.



Soft Start function 2 seconds LRC Stator or Light Activated Active Lamp function -- With Output

Page 499 Product Group IB-104 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M544	В	12	14.5				
M535	В	12	14.5				

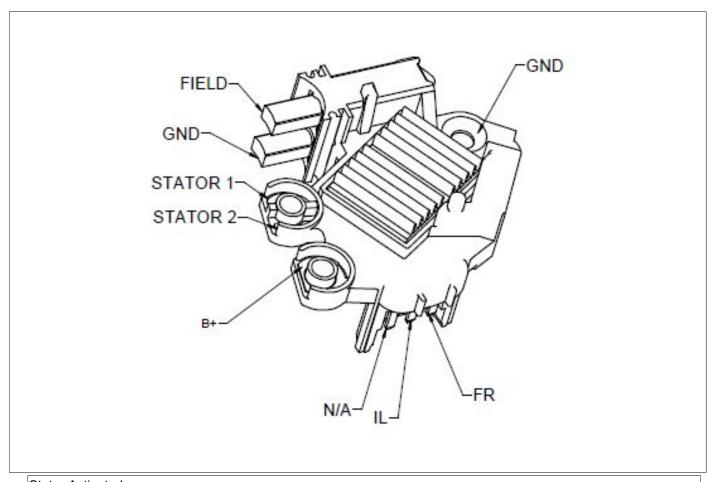
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

1. Disconnect stator, the Lamp Indication comes on.



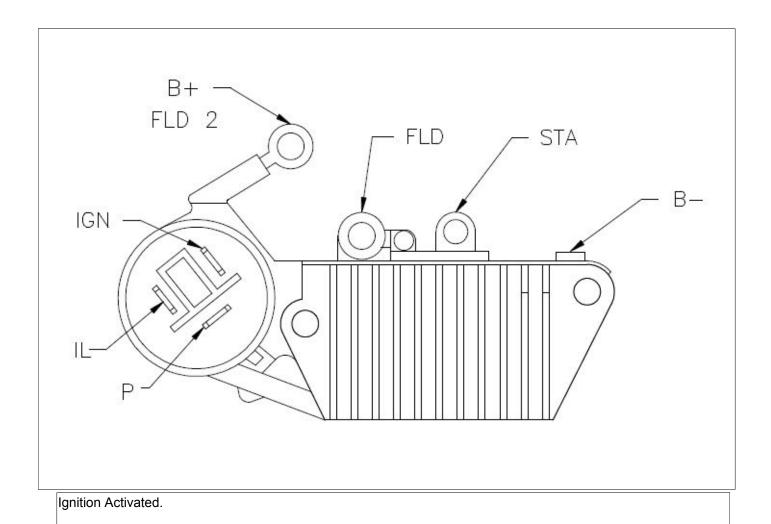
Stator Activated.
Soft Start Function
Under Voltage Lamp.

Page 500 Product Group M-31 Revision: Date: <u>1/6/2021</u>

NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN265	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indication comes on.



Page 501 Product Group IN-47 Revision: Date: <u>1/6/2021</u>

type regulators

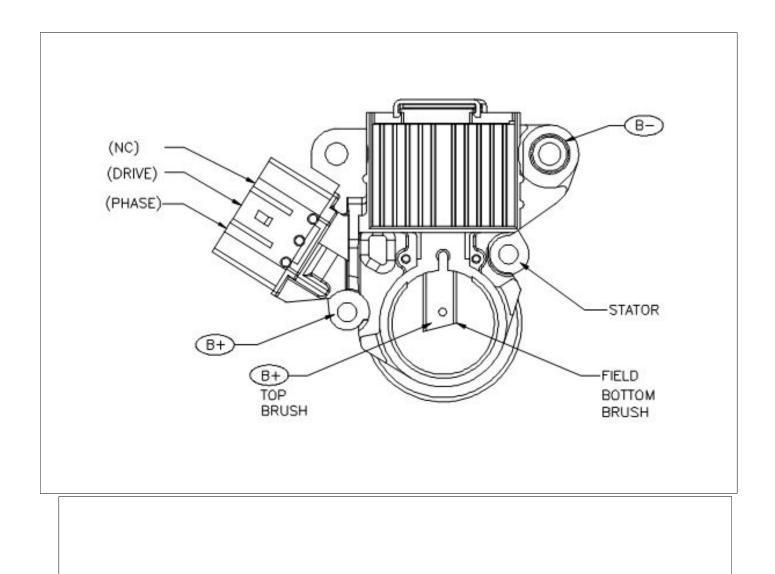
MITSUBISHI

for

		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM505	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect DRIVER to tester "PD"

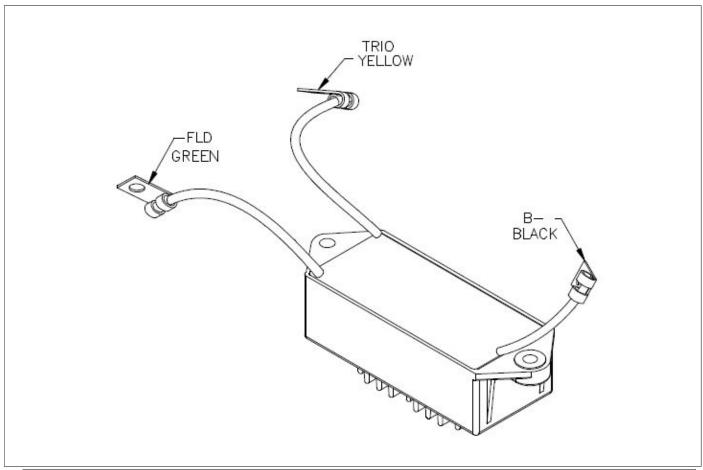


Page 502 Product Group IM-74 Revision: Date : 1/6/2021

for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL7020JMP	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



TRIO Excited.

Page 503 Product Group L-13 Revision: Date: <u>1/6/2021</u>

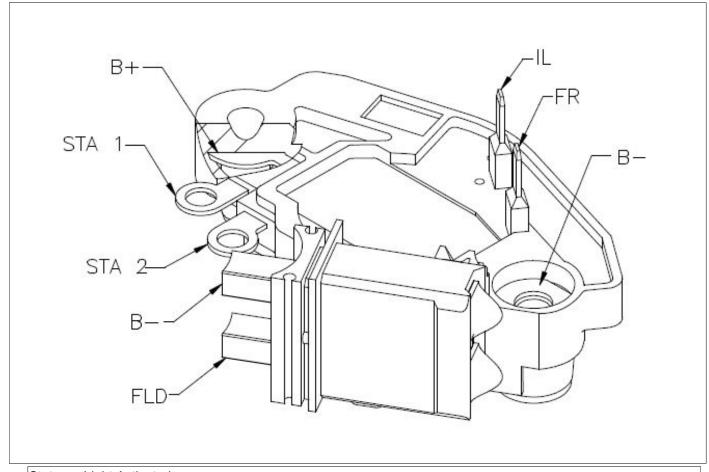
		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M564	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

- 1. Disconnect Stator, the Lamp Indication comes on.
- 2. Reconnect Stator, Push "Choke Drive" on the panel, the Choke Drive Indication comes on.



Stator or Light Activated Soft Start Function 5 seconds LRC Under Voltage Lamp Active Lamp -- With Output

Page 504 Product Group M-44 Revision: Date: 1/6/2021

type regulators

VALEO

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M546	В	12	14.4				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

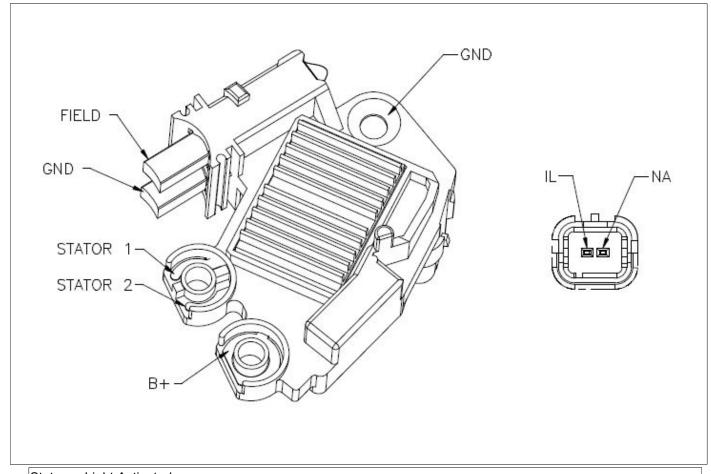
3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

1. Disconnect Stator, the Lamp Indication comes on.

for

2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indication comes on.

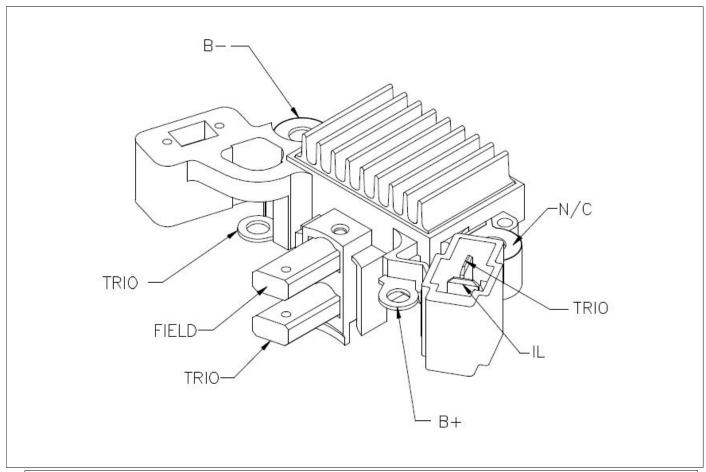


Stator or Light Activated.
Soft Start Function
9 seconds LRC
Under Voltage Lamp
Active Lamp -- With Output

Page 505 Product Group M-33 Revision: Date: 1/6/2021

		TOT	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH784	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



TRIO EXCITED

Page 506 Product Group IH-51 Revision: Date: 1/6/2021

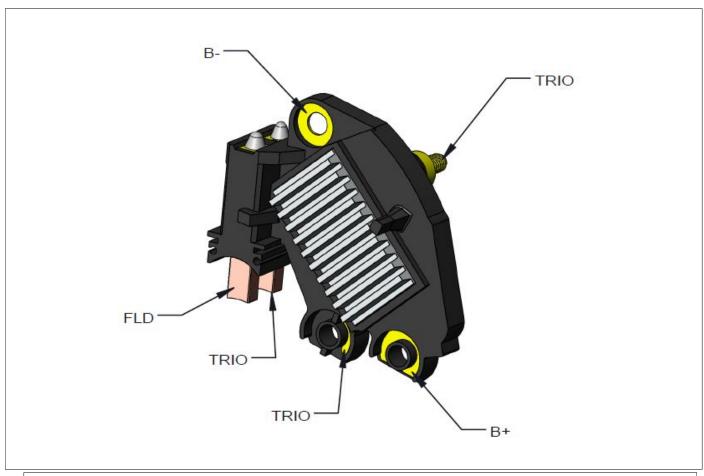
VALEO

for

			***************************************	,poogu.u			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M6120	Α	12	14.65				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



TRIO excited.

Page 507 Product Group M-57 Revision: Date: <u>1/6/2021</u>

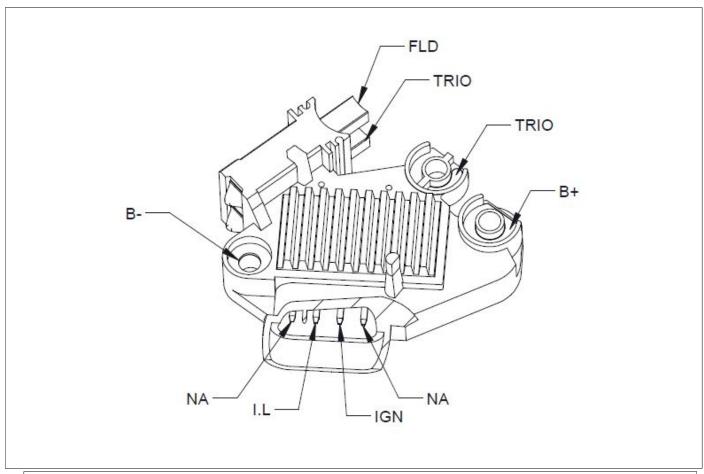
type regulators

VALEO

for

				,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M6132	Α	12	14.65				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



TRIO excited

Page 508 Product Group M-58 Revision: Date: <u>1/6/2021</u>

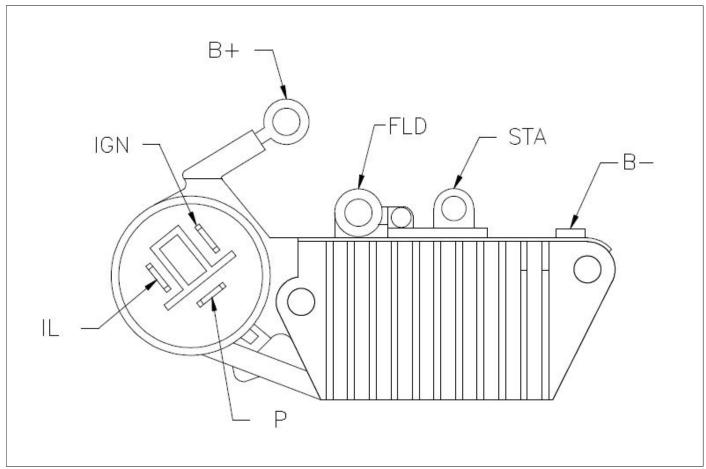
NIPPONDENSO

 PART NO.
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 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

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type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Ignition Activated.

Page 509 Product Group IN-48 Revision: Date : <u>1/6/2021</u>

		тог	VALEO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M549	В	12	14.4				

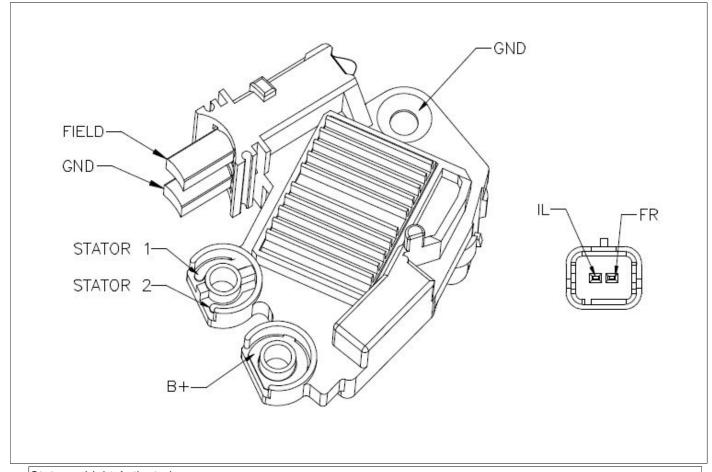
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

- 1. Disconnect Stator, the Lamp Indication comes on.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indication comes on.



Stator or Light Activated.
Soft Start Function
9 seconds LRC
Under Voltage Lamp
Active Lamp -- With Output

Page 510 Product Group M-35 Revision: Date: 1/6/2021

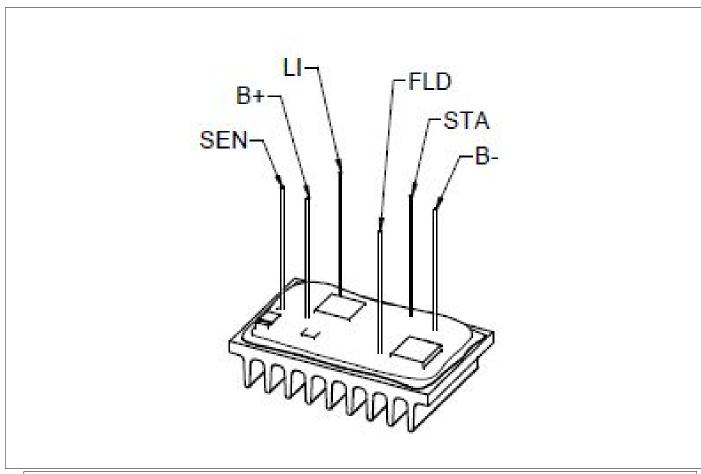
for TE REPAIR CIRCUIT type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
TRI738	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Sense, the setpoint should be 15.3+/-0.2V.
- 2. Reconnect Sense, disconnect Stator, the Lamp Indication should be on.
- 3. Reconnect Stator, push the Over Voltage button on the panel, the Lamp Indication should be on.



Soft Start Function 3 seconds LRC

Over Voltage, Under Voltage Lamp.

Page 511 Product Group TRI-25 Revision: Date: 1/6/2021

		tor	VALEO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M564	В	12	14.5				

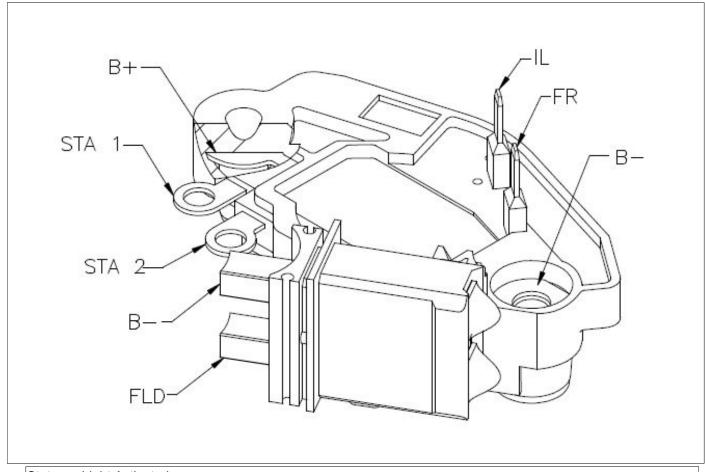
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

- 1. Disconnect Stator, the Lamp Indication comes on.
- 2. Reconnect Stator, Push "Choke Drive" on the panel, the Choke Drive Indication comes on.



Stator or Light Activated Soft Start Function 5 seconds LRC Under Voltage Lamp Active Lamp -- With Output

Page 512 Product Group M-44 Revision: Date: 1/6/2021

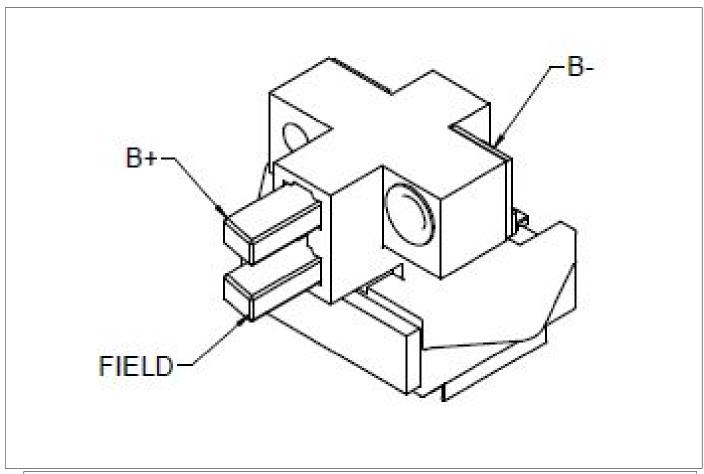
type regulators

LUCAS

for

			100/10	, po . o guillato			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL7044JMP	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

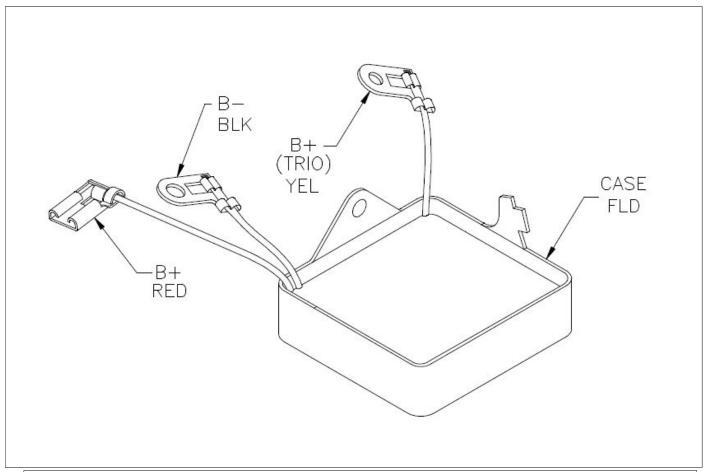


Trio Excited.

Page 513 Product Group IL-09 Revision: Date : <u>1/6/2021</u>

		for	LUCAS	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL217	Α	12	14.25				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Trio Excited.

Page 514 Product Group IL-07 Revision: Date : <u>1/6/2021</u>

		TOT	VALEO	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
M534	В	12	14.4					
T8534	В	12	14.4					

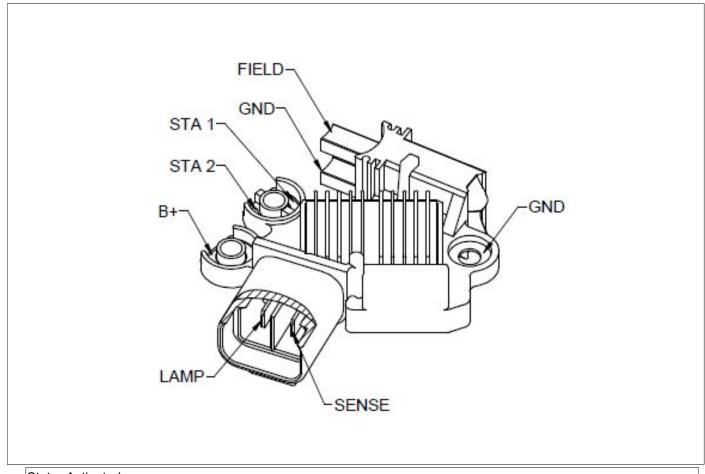
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

- 1. Disconnect Sense, the set point should be 14.3V, the Lamp Indication should be on.
- 2. Reconnect Sense, Disconnect Stator, the Lamp Indication should be on.



Stator Activated Soft Start Function 6s LRC Under Voltage Lamp

Page 515 Product Group M-27 Revision: Date: 1/6/2021

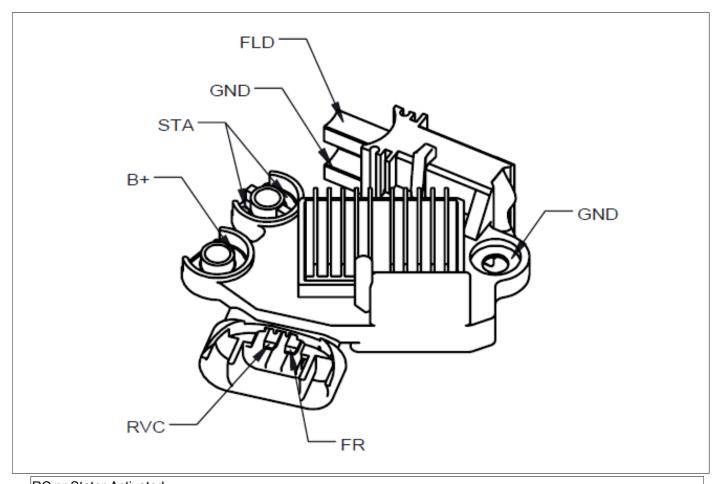
		for	VALEO	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
M540	В	12	13.8						
T8540	В	12	13.8						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RVC terminal to VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 11.8V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 13.3V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.4V.



RC or Stator Activated.
Soft Start Function

VSet controlled by vehicle RVC system

Page 516 Product Group M-28 Revision: Date: 1/6/2021

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M558	В	12	14.65				

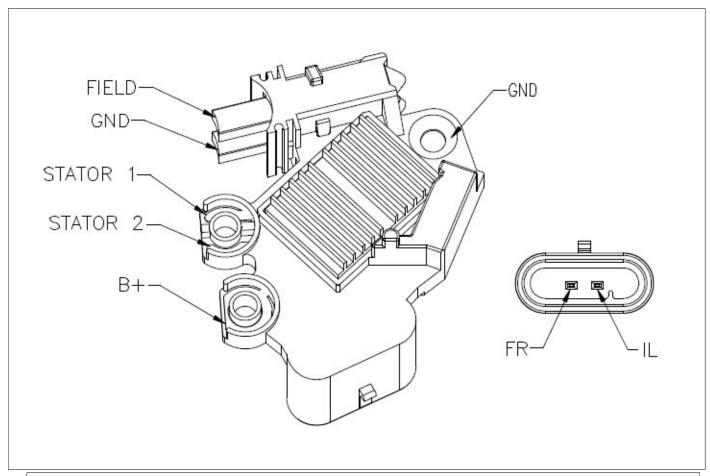
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

1. Disconnect Stator, the Lamp Indication should be on.



- •B-Circuit, High side drive regulator
- Stator or Lamp Activated
- Soft Start
- •3 seconds LRC
- Under Voltage Lamp

Page 517 Product Group M-40 Revision: Date: 1/6/2021

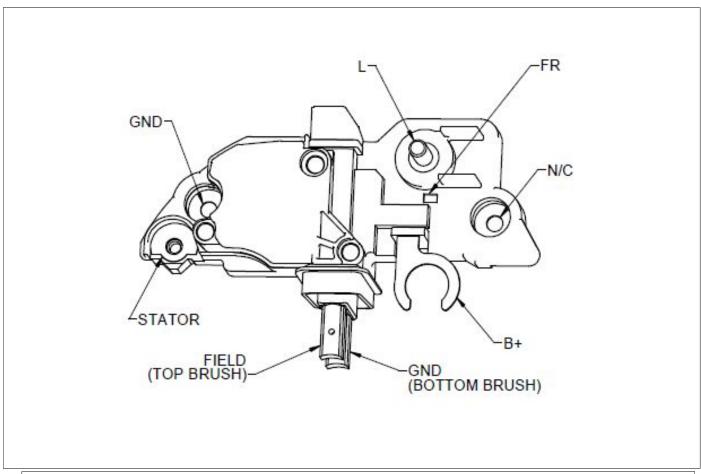
		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB680	В	12	14.6				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Push the Choke Drive button on the panel, the Choke Drive Indicator comes on.
- 2. Disconnect Stator, the Lamp Light comes on, the Field Lamp is dim.



soft start function 8 seconds LRC Active Lamp function -- With Output Stator or Light Activated.

Page 518 Product Group IB-54 Revision: Date: 1/6/2021

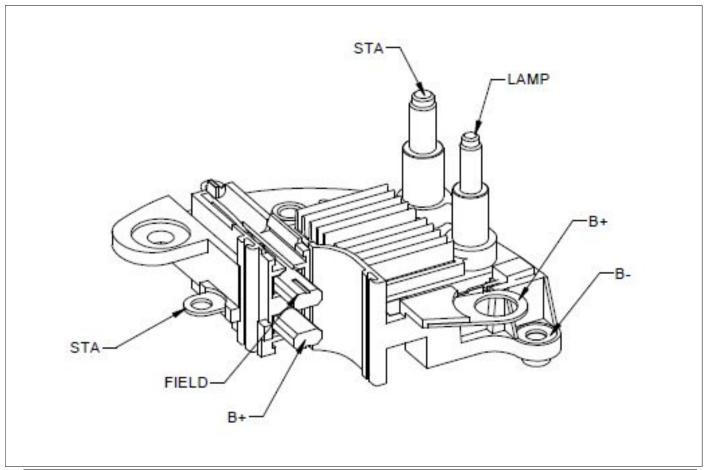
for MAGNETI MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX124	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

- 1. Disconnect Stator, the Lamp Indicator should be on.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator should be on.



IL or Stator Activated.
Active Lamp -- With Output

Page 519 Product Group IX-09 Revision: Date: <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M531	В	12	14.45				

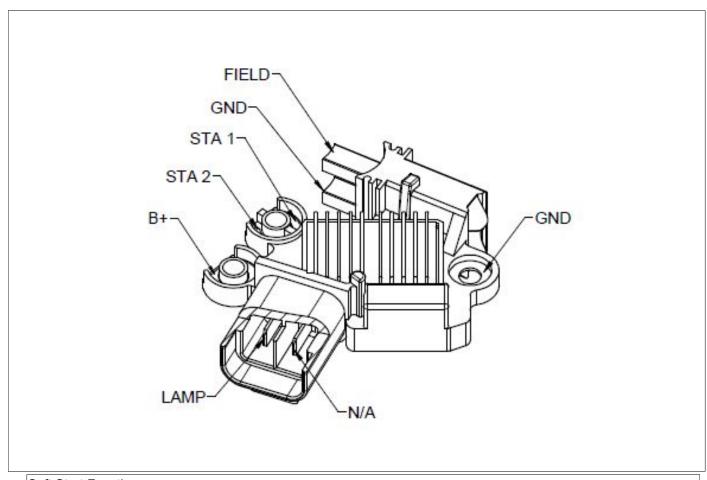
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

1. Disconnect Stator, the Lamp Indicator should be on.

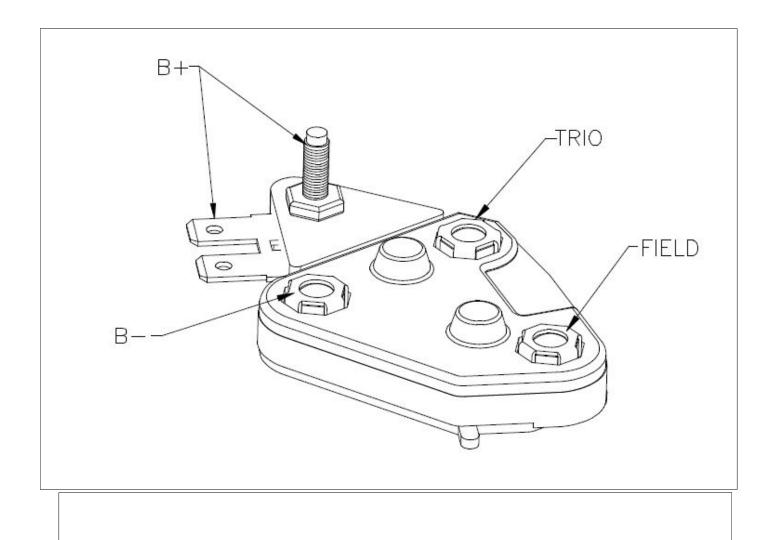


Soft Start Function 5 seconds LRC Under Voltage Lamp Stator Activated.

Page 520 Product Group M-25 Revision: Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D104HD-264	Α	24	26.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 521 Product Group D-53 Revision: Date: 1/6/2021

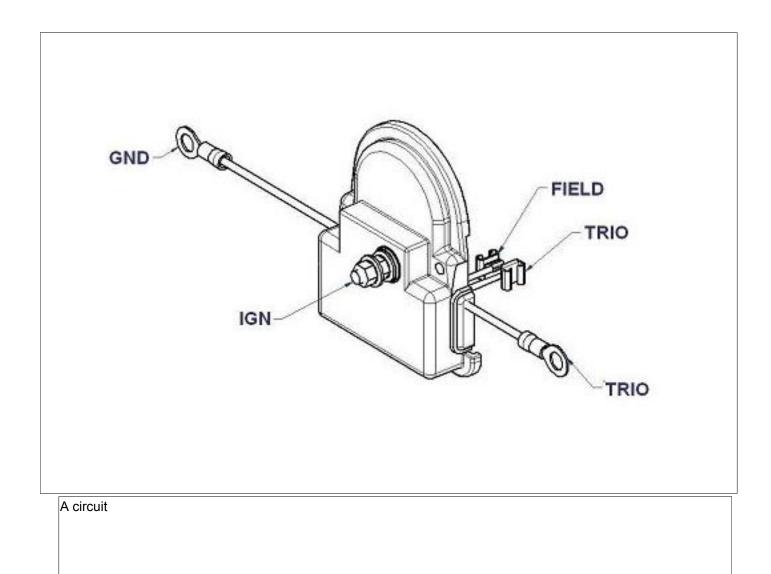
type regulators

VALEO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-332	Α	12	14.3				

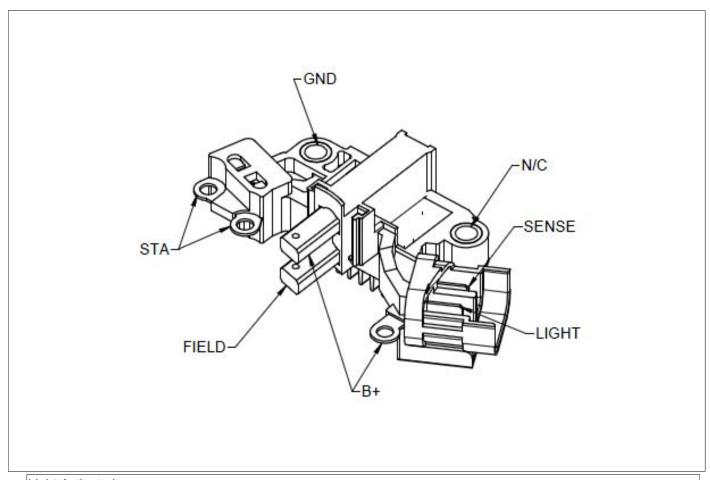
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. test with VRC2010 disconnect sense, the set point(DMM) is about 15.4V, the Lamp indicator is on



Page 522 Product Group M-26 Revision: Date : <u>1/6/2021</u>

		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH746	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should be 15.3+/-0.2V.
 - 2. Reconnect Sense, disconnect Stator, the Light should be on.



Light Activated. Soft Start 9 seconds LRC

Standard Lamp -- Without Output

Page 523 Product Group IH-47 Revision: Date : <u>1/6/2021</u>

type regulators

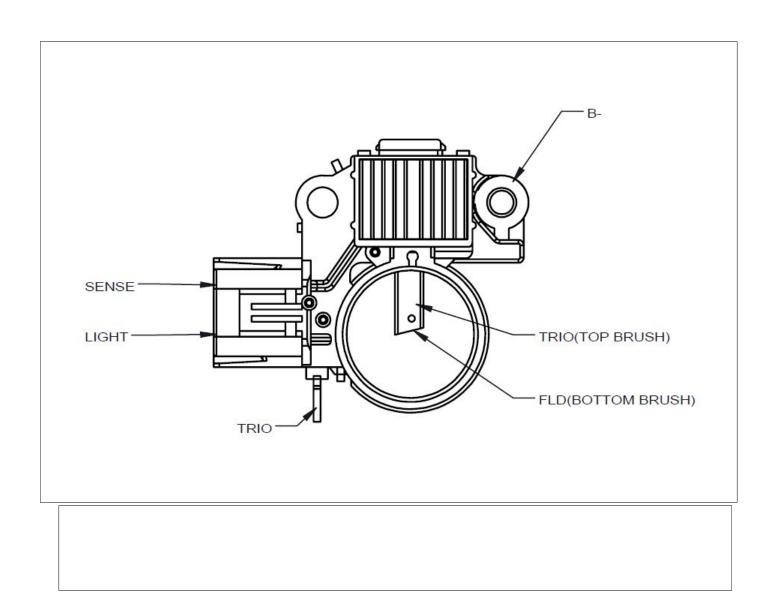
MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM264-2	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

disconnect the SENSE, the setpoint(DMM reading) is about 15.2V

for



Page 524 Product Group IM-65 Revision: Date : <u>1/6/2021</u>

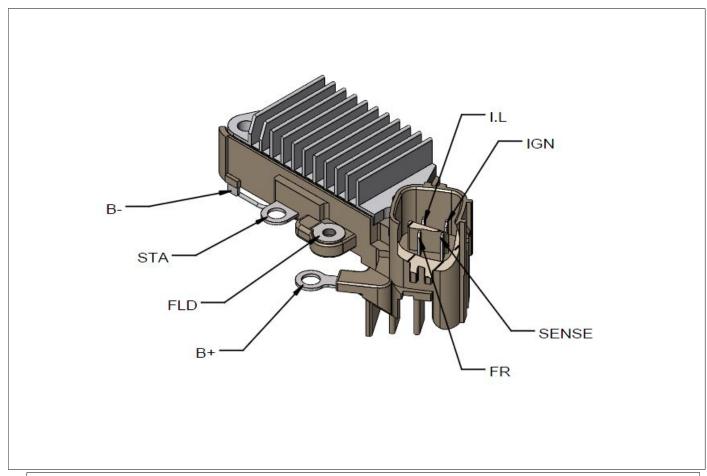
NIPPONDENSO

PART NO. FLD VOLT SET POINT PART NO. FLD VOLT **SET POINT**

type regulators

IN289	Α	12	13.8		

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should be about 14.5V. lamp on
 - 2. Reconnect Sense, disconnect Stator, the Light should be on.



A circuit, low side drive with softstart with LRC IGN actived

> Product Group IN-49 Date: 1/6/2021 Revision: Page 525

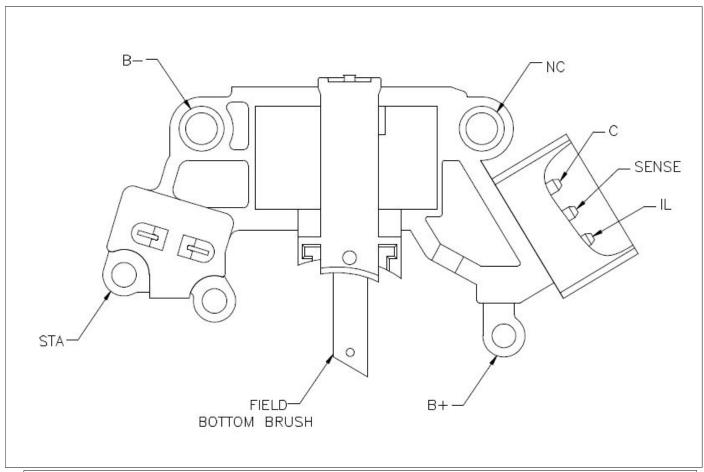
		тог	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH747	Α	12	14.3				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

disconnect the SENSE, the setpoint is about 15.2V, lamp is on



A circuit, low side drive
light activated
with LRC
with soft start
with C function

Page 526 Product Group IH-48 Revision: Date : <u>1/6/2021</u>

type regulators

VALEO

for

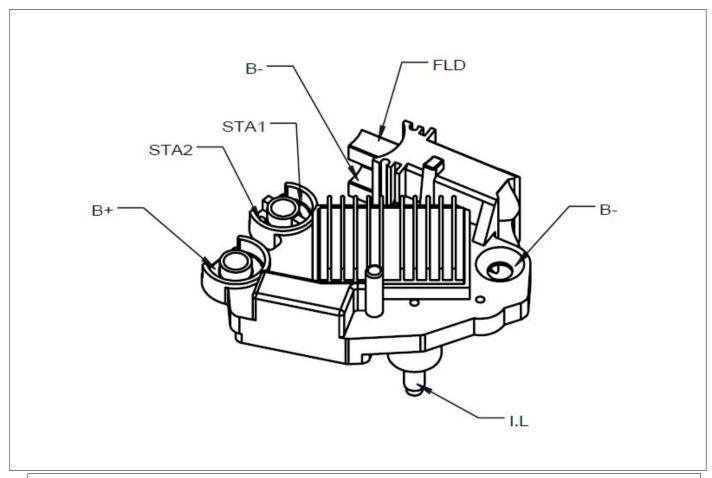
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M557	В	12	14.6				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

disconnect the stator, lamp is on

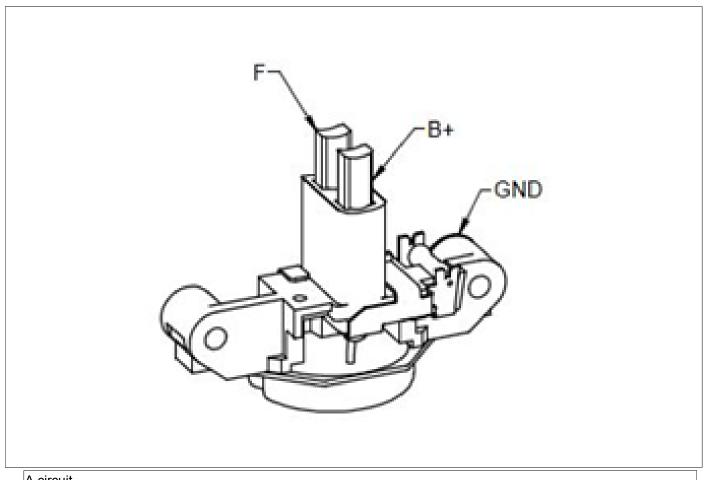


B circuit, high side drive with soft start with under voltage

Page 527 Product Group M-39 Revision: Date: <u>1/6/2021</u>

		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB389	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

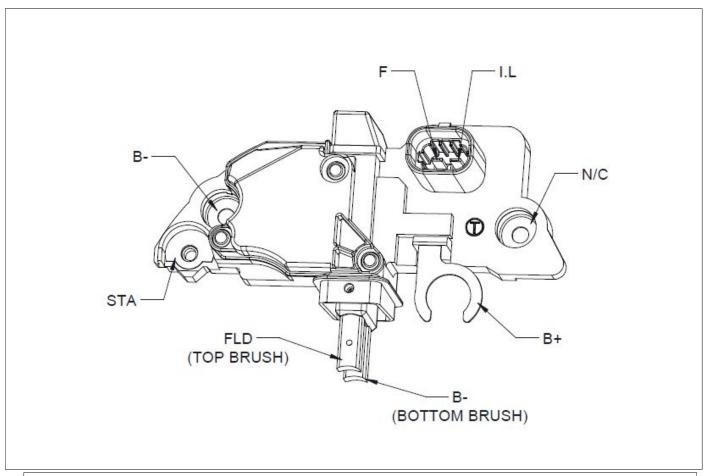


A circuit with LRC

Page 528 Product Group IB-55 Revision: Date : <u>1/6/2021</u>

		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB160	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



B circuit, low side drive

STA activated and light activated to softstart

without LRC

with softstart

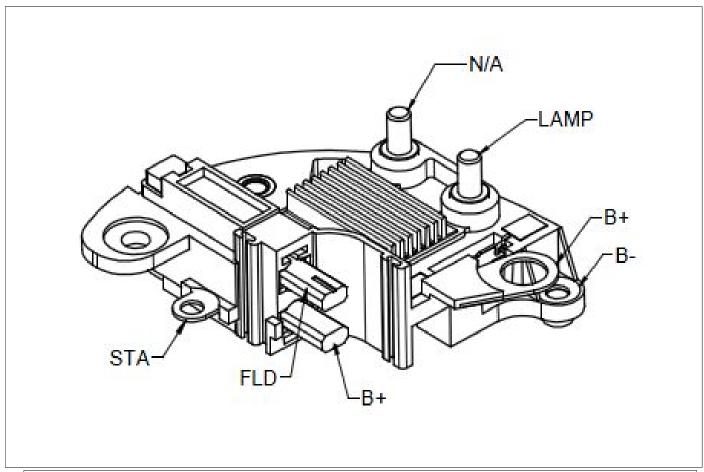
with F function

Page 529 Product Group IB-56 Revision: Date : 1/6/2021

for MAGNETI MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX597	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



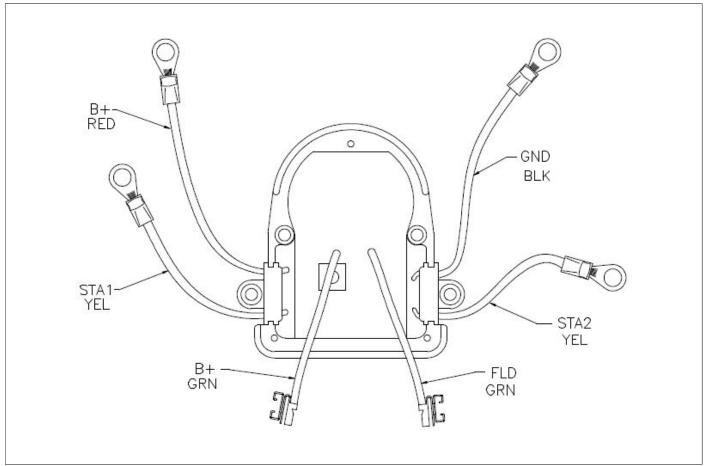
A circuit
without LRC
with choke drive

Page 530 Product Group IX-15 Revision: Date: 1/6/2021

TRANSPO TESTER INSTRUCTIONS for MOTOROLA type regulators

		<u> </u>					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-2471	Α	24	27.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



A circuit,low side drive STA actived

Page 531 Product Group M5-54 Revision: Date: <u>1/6/2021</u>

type regulators

VALEO

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M556	В	12	14.4				

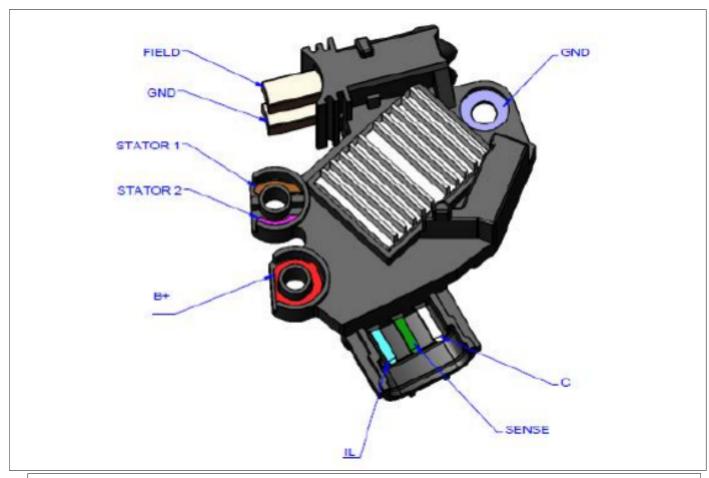
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

disconnect the SENSE, the setpiont is about 15.0V.

for



B circuit, high side drive light/stator activated with LRC with C function with soft start

Page 532 Product Group M-38 Revision: Date : <u>1/6/2021</u>

		TOR	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB266	Α	12	14.2				
IB266V	A	12	14.2				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator

as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

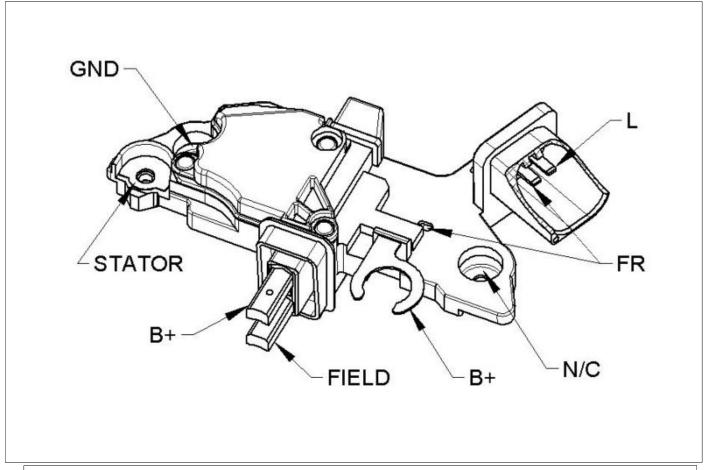
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point

Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.



A circuit,low side drive Light/Stator activated with softstart with LRC with FR function

Page 533 Product Group IB-103 Revision: Date : <u>1/6/2021</u>

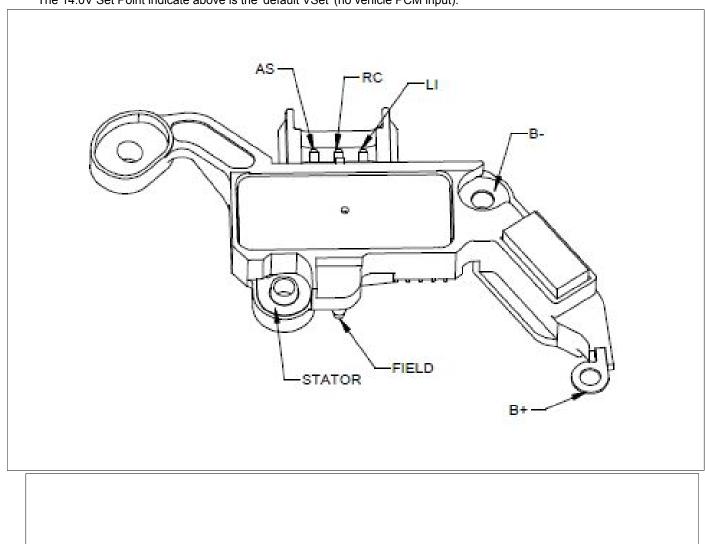
		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F611	Α	12V	14.0*				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing:

- 1. Connect RC terminal to VRC2010 tester.
- 2. Adjust Comm Voltage switch to position 13, Setpoint is 12.9V.
- 3. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 4. Adjust Comm Voltage switch to position 15, Setpoint is 14.8V.
- * The 14.0V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



Page 534 Product Group F-13 Revision: Date: 1/6/2021

type regulators

BOSCH

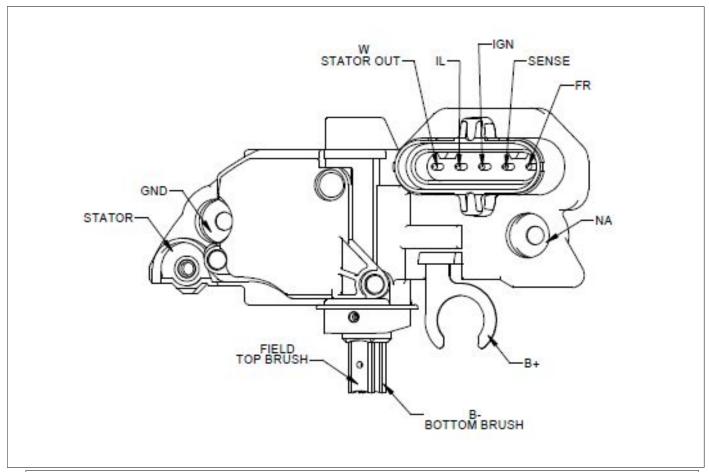
for

			ypo rogulatoro				
PART NO. FLD	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5300	В	24	25.6				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:



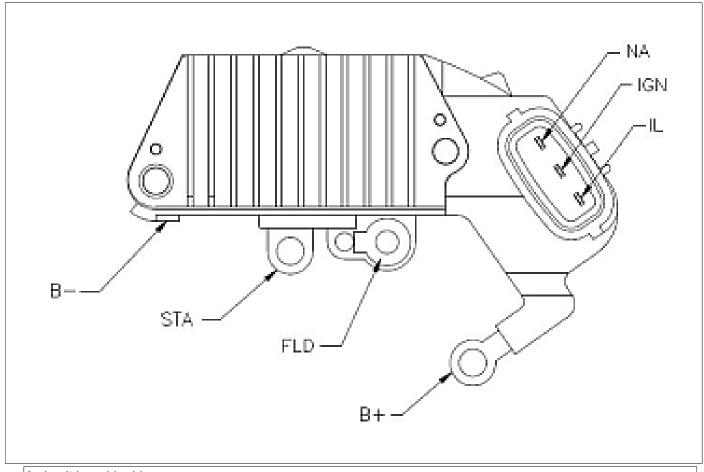
B circuit, high side drive Ignition activated with softstart with FR function

Page 535 Product Group IB-57 Revision: Date : <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN249	Α	12	14.65				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



A circuit,low side drive

Page 536 Product Group IN-44 Revision: Date : 1/6/2021

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M552	В	12	14.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator

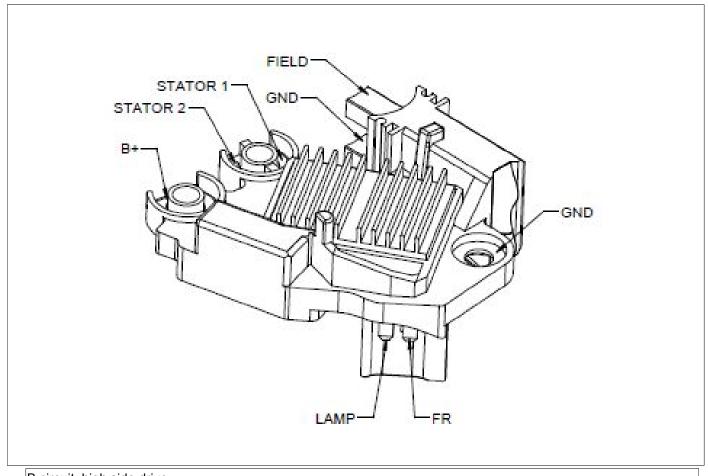
as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Disconnect the Stator terminal and the Lamp should turn ON.



B circuit, high side drive with softstart with LRC with FR

Page 537 Product Group M-37 Revision: Date : <u>1/6/2021</u>

type regulators

DELCO

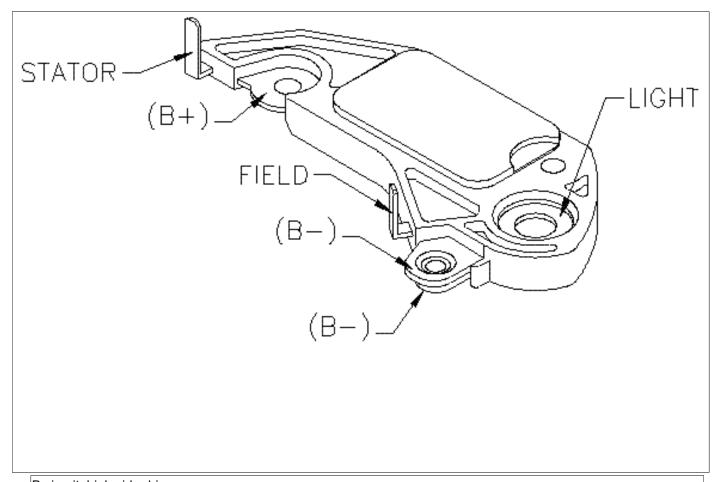
for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE708HD	В	12	14.7				
DE708HD-B-V1	В	12	14.7				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

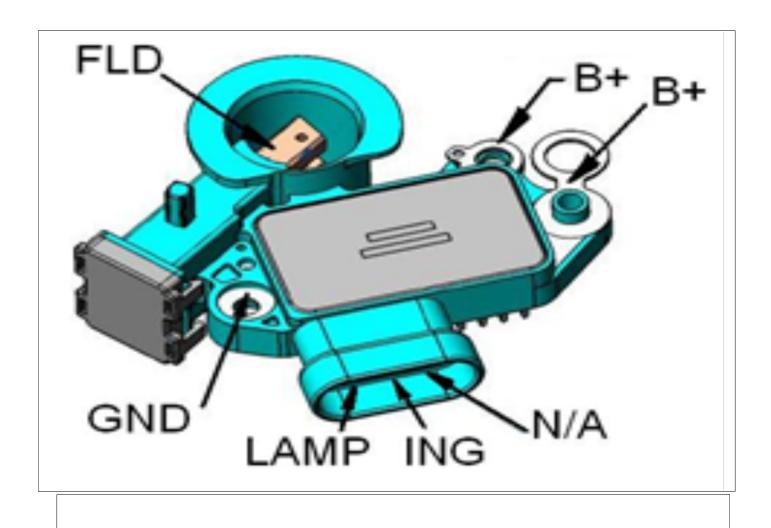


B circuit, high side drive Light actived with softstart with LRC

Page 538 Product Group D-64 Revision: Date : <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D2262	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 539 Product Group D-54 Revision: Date: <u>1/6/2021</u>

NIPPONDENSO

 PART NO.
 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

 IN462
 A
 24
 28.5
 Image: Control of the control of

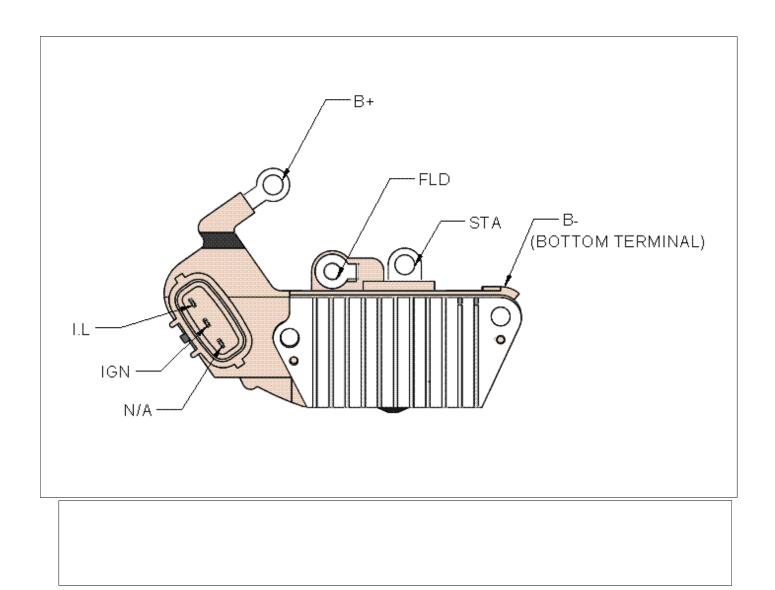
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Light should turn ON.

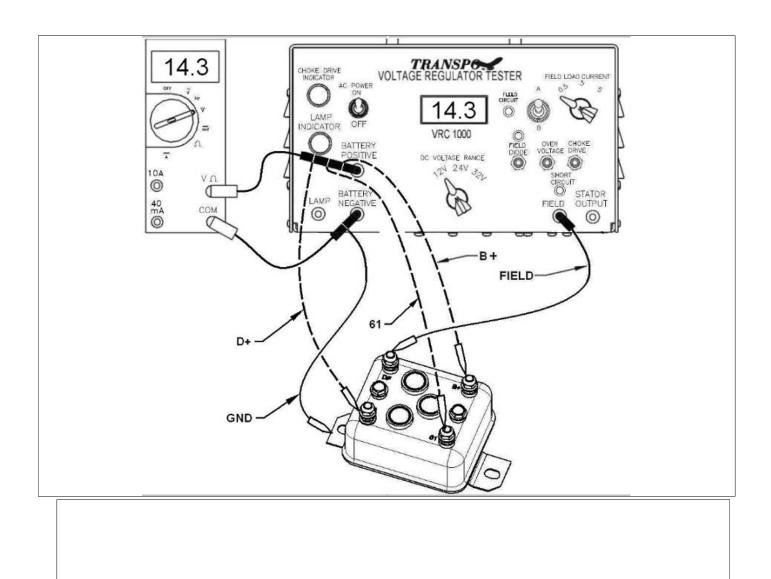
Reconnect the Stator terminal, push the Over Voltage button, the light should turn ON.



Page 540 Product Group IN-68 Revision: Date: 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB9028	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 541 Product Group IB-58 Revision: Date : <u>1/6/2021</u>

type regulators

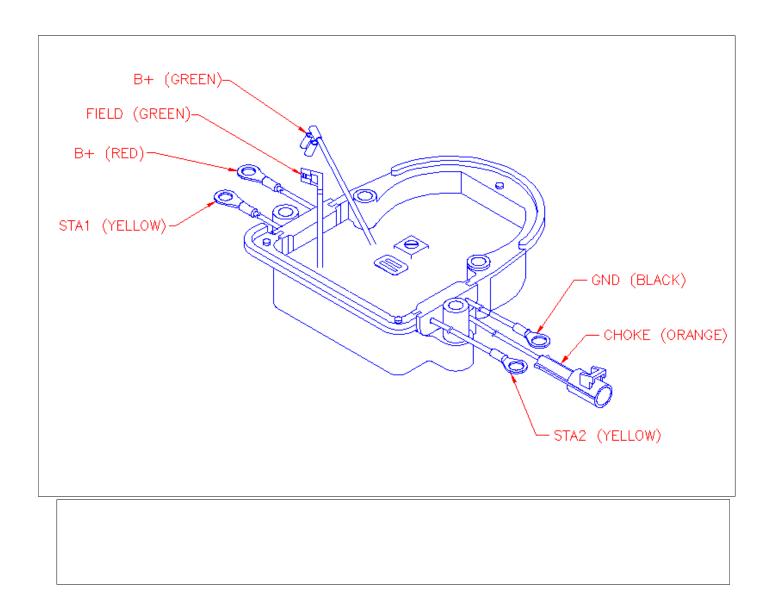
MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-050AHD	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on.

for

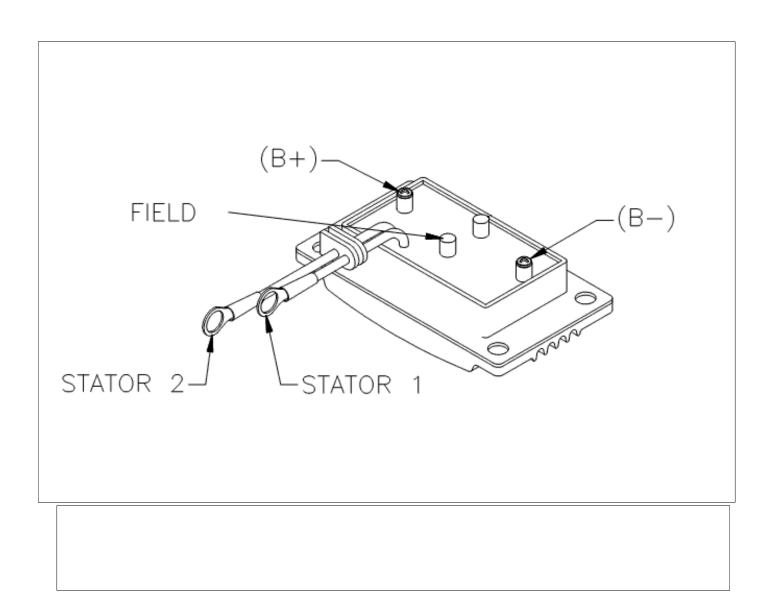


Page 542 Product Group M5-53 Revision: Date : <u>1/6/2021</u>

for LEECE NEVILLE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
L105746	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 543 Product Group L-12 Revision: Date: <u>1/6/2021</u>

 for
 NIPPONDENSO
 type regulators

 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

 A
 24
 28.4
 Image: Control of the control o

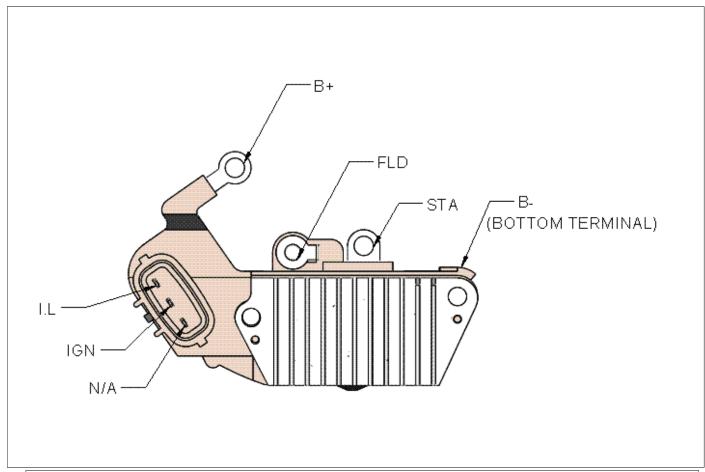
FARTINO.	FLD	VOLI	SELFOINT	FARTINO.	LLD	VOLI	SETFOINT
IN373HD	Α	24	28.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

DART NO

- 1. Disconnect Stator, the Lamp Indicator comes on.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator comes on.



Ignition Activated

Page 544 Product Group IN-60 Revision: Date: 1/6/2021

for VALEO/MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M516SC-2	В	12	14.5				

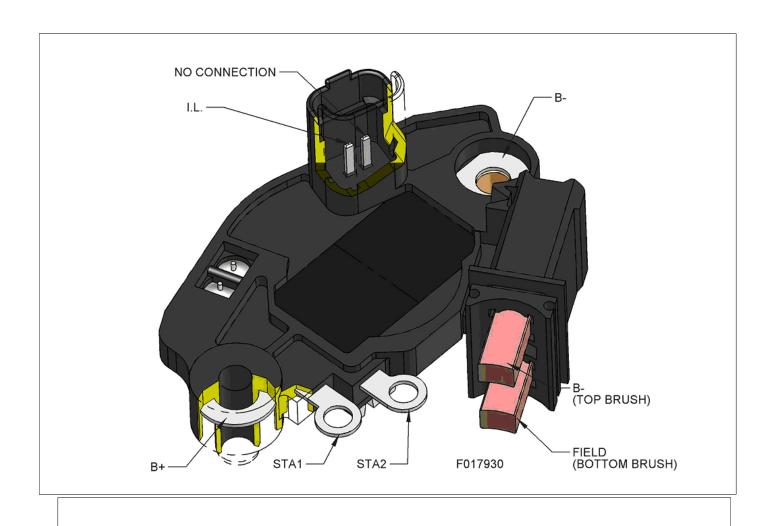
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



Page 545 Product Group M-67 Revision: Date: 1/6/2021

MITSUBISHI

type regulators

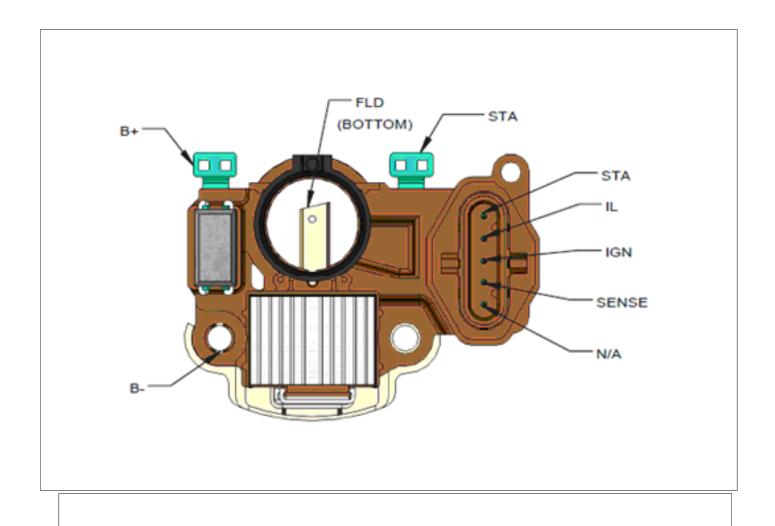
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the choke drive and the "Choke Drive Indicator Lamp" will turn on.

Disconnect the SENSE, Lamp will turn on.

Reconnect SENSE, Lamp will turn off, disconnect the Stator, Lamp will turn on.



Page 546 Product Group IM-82 Revision: Date: 1/6/2021

type regulators

VALEO

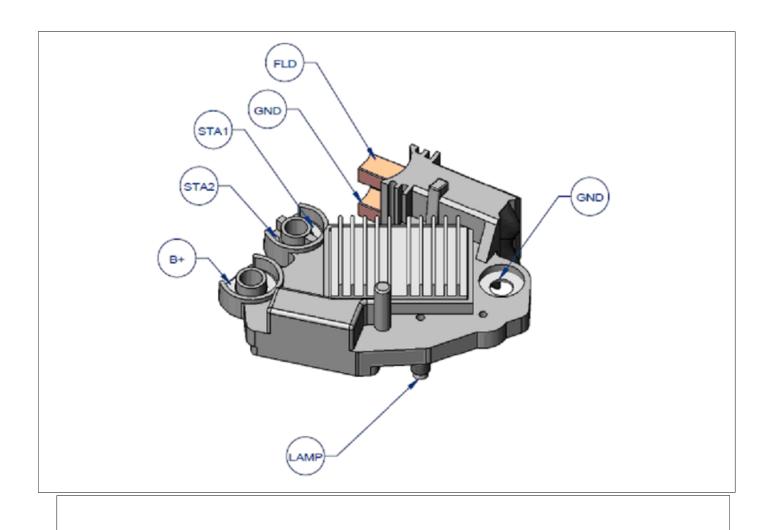
				3,60 109			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M561	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, Disconnect the Stator terminal, the Lamp should turn ON.

for



Page 547 Product Group M-42 Revision: Date : <u>1/6/2021</u>

for MAGNETI MARELLI type regulators

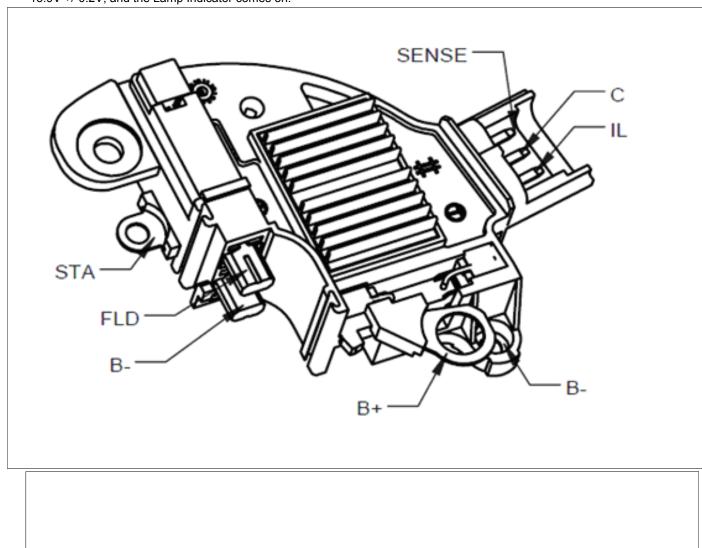
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX135	В	12	13.5*				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect C terminal to RCV of VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 13.0V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 15.0V.
- * The 13.5V Set Point indicate above is the 'default VSet' (no vehicle PCM input), disconnect the Sense, the set point will be 13.9V +/-0.2V, and the Lamp Indicator comes on.

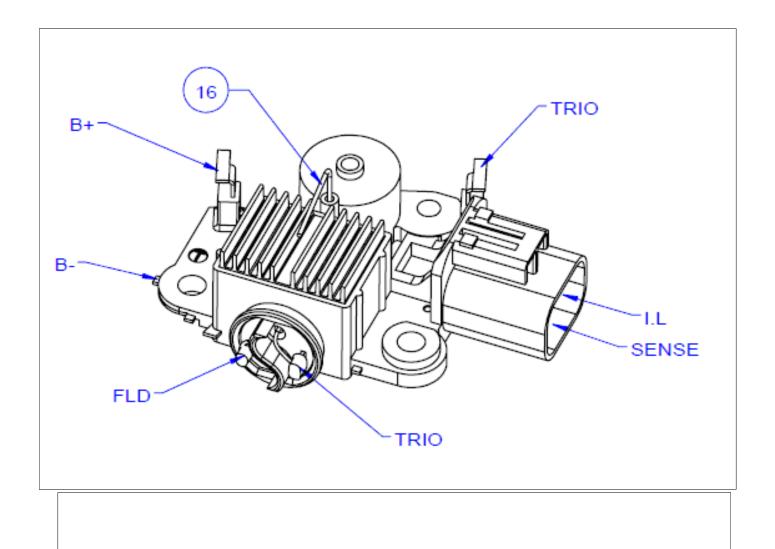


Page 548 Product Group IX-12 Revision: Date: 1/6/2021

		тог	MANDO	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY116	Α	12	14.45				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect Sense, the Lamp Indicator comes on, and the set point will be 15.4V +/-0.2V.



Page 549 Product Group IY-07 Revision: Date: <u>1/6/2021</u>

		for M	ITSUBISHI	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM558	Α	12	14.7				

Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator 1. POWER OFF: as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

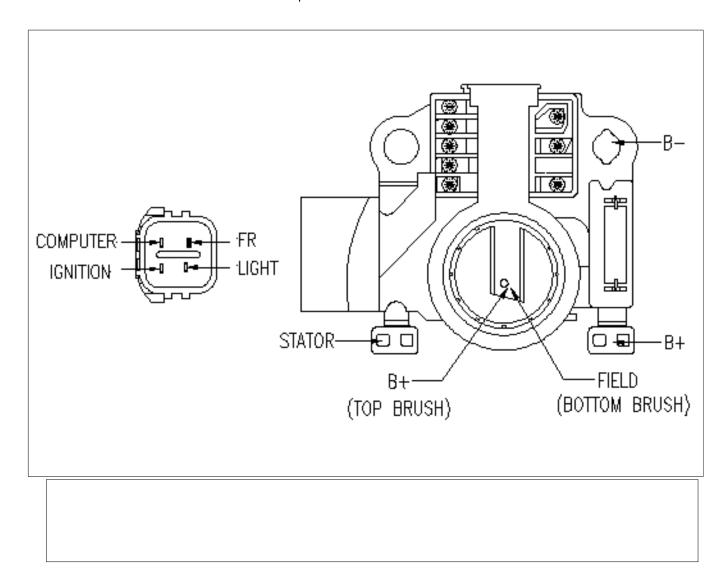
3. Amendments or Additional Tests:

Connect IGNITION with B+, Connect COMPUTER terminal to C of VRC2010 tester. don't connect FR.

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

Push the "COMPUTER" switch and the Setpoint drops to 12.6V.

Disconnect the Stator terminal and the Lamp should turn ON.



Page 550 Product Group IM-78 Revision: Date: 8/24/2021

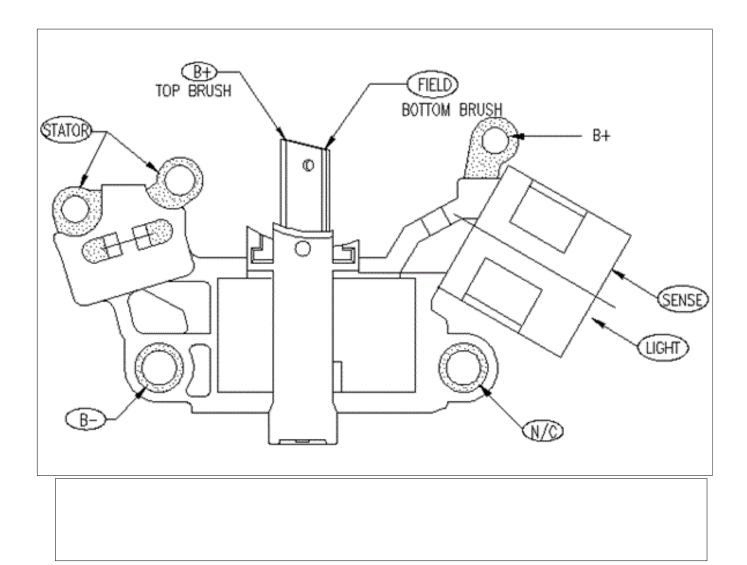
		for	HITACHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH748	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect the Sense, the set point will be 15.4V +/-0.2V.

Reconnect Sense, disconnect the Stator terminal and the Lamp should turn ON.



Page 551 Product Group IH-49 Revision: Date : <u>8/24/2021</u>

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM622	Α	12	13.45				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

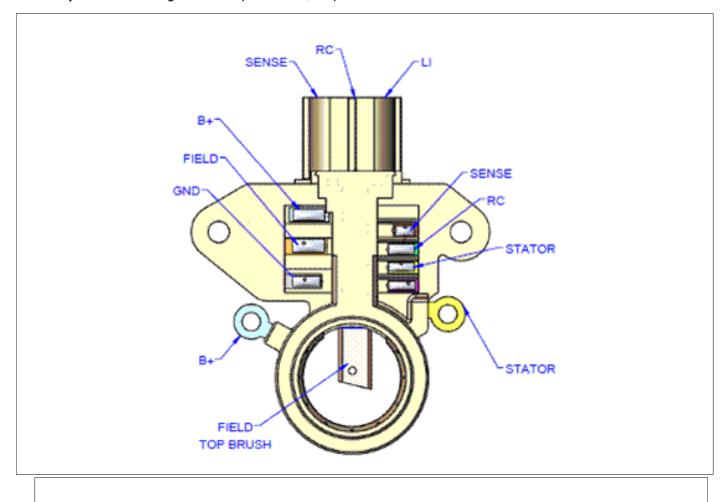
Do not connect RC.

Disconnect the Sense, the set point will be 14.0V +/-0.2V.Connect RC terminal to RCV of VRC2010 tester.

1. Adjust Comm Voltage switch to position 13, Setpoint is 13.0V.

for

- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 15.0V.



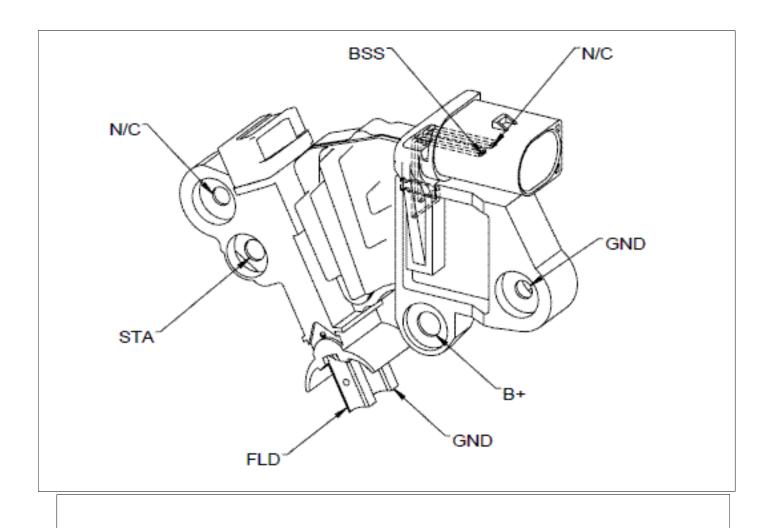
Page 552 Product Group IM-81 Revision: Date: 1/6/2021

		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6024	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



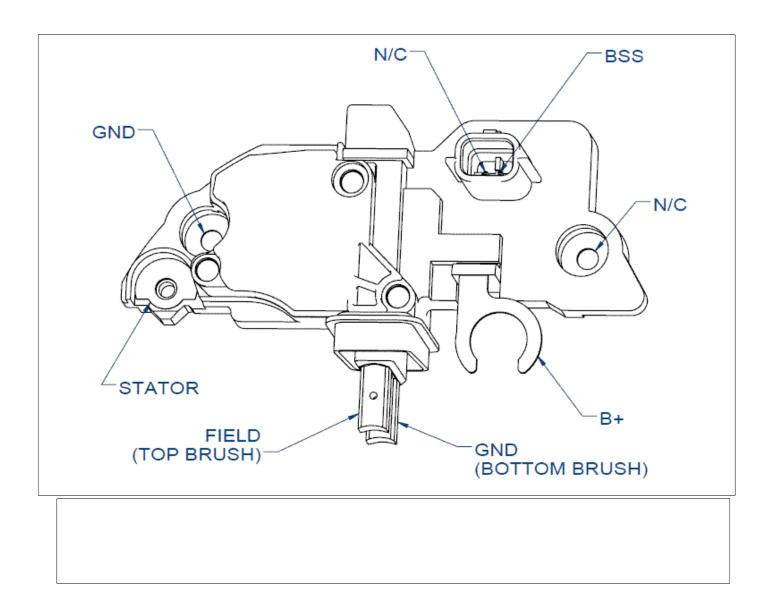
Page 553 Product Group IB-59 Revision: Date : <u>1/6/2021</u>

		τοr	возсн	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB321	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



Page 554 Product Group IB-61 Revision: Date : <u>1/6/2021</u>

type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM992	Α	12	14.4				

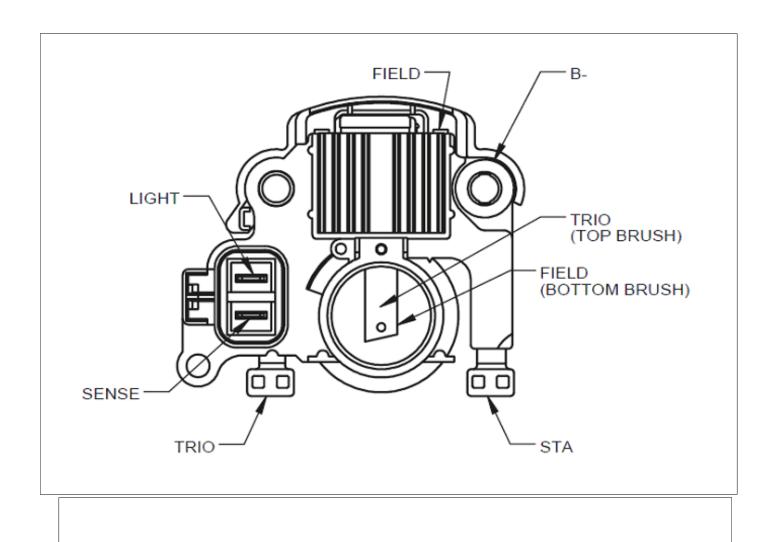
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect the Sense, the set point will be 15.5V +/-0.3V.

for



Page 555 Product Group IM-88 Revision: Date : <u>1/6/2021</u>

		for	MANDO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IY727	Α	12	14.4				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator

as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

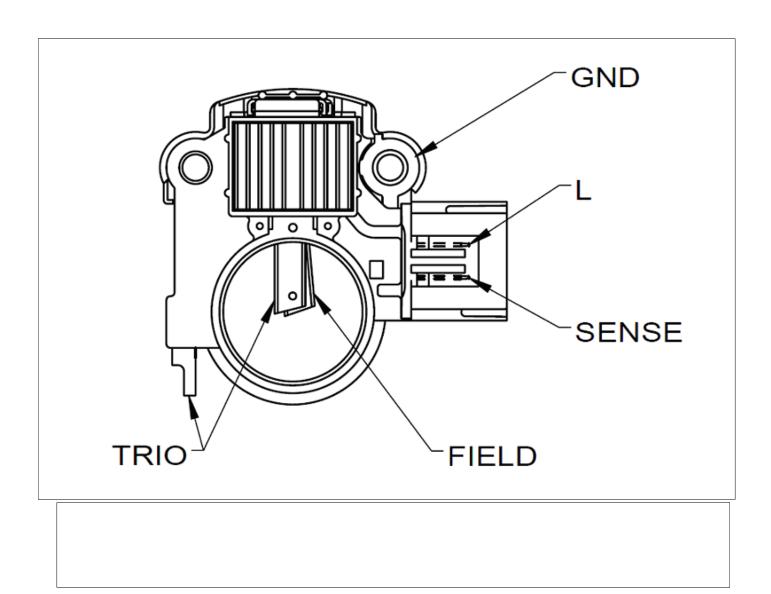
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point

Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect TRIO and SENSE to B+.

Disconnect the Sense, the set point will be 15.5V +/-0.3V.

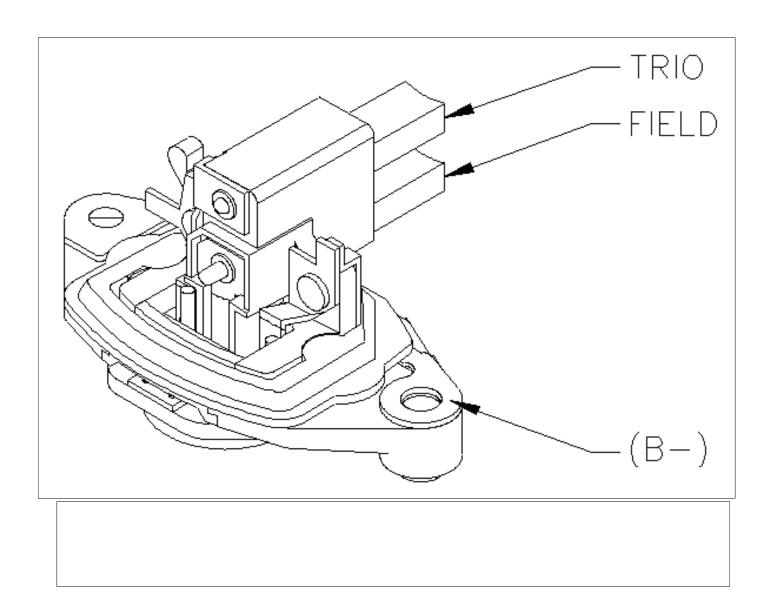


Page 556 Product Group IY-11 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB362CN-2	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



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for NIPPONDENSO type regulators

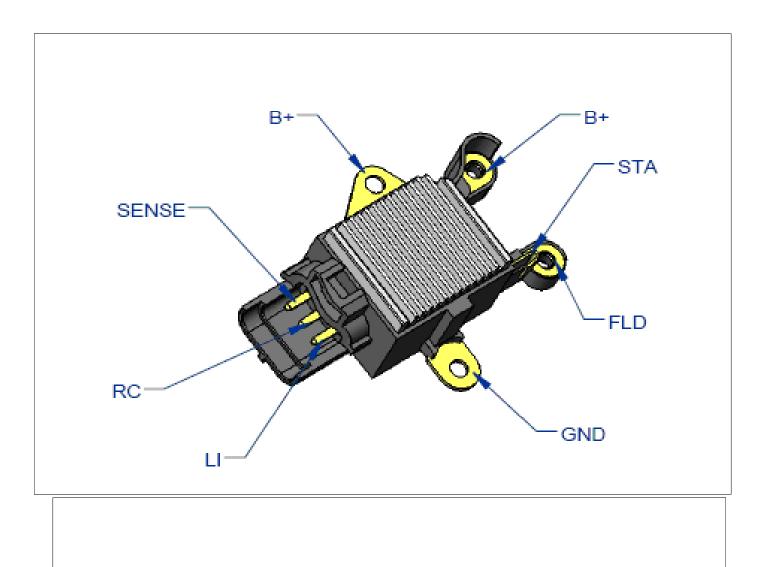
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6601	Α	12	13.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to RCV of VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 13.0V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 15.0V.



Page 558 Product Group IN-97 Revision: Date: 1/6/2021

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M530	В	12	14.4				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

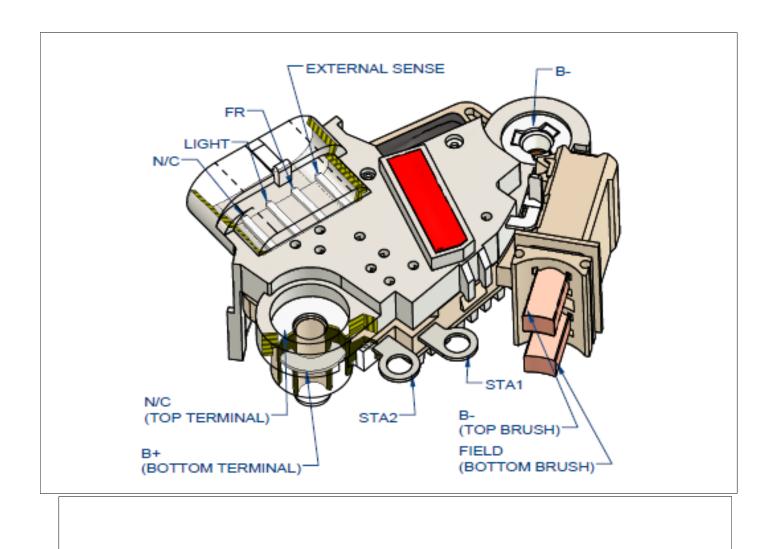
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



Page 559 Product Group M-24 Revision: Date: 1/6/2021

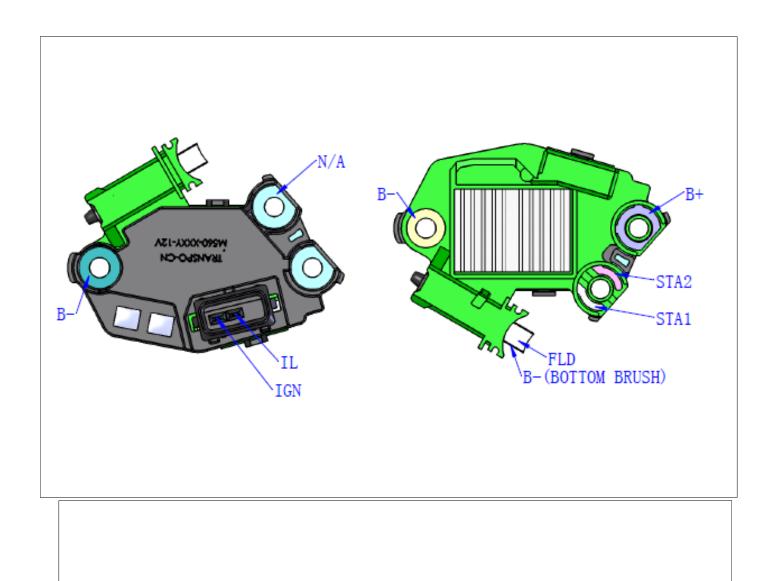
		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M560	В	12	14.8				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on. Disconnect the Stator terminal and the Lamp should turn ON.



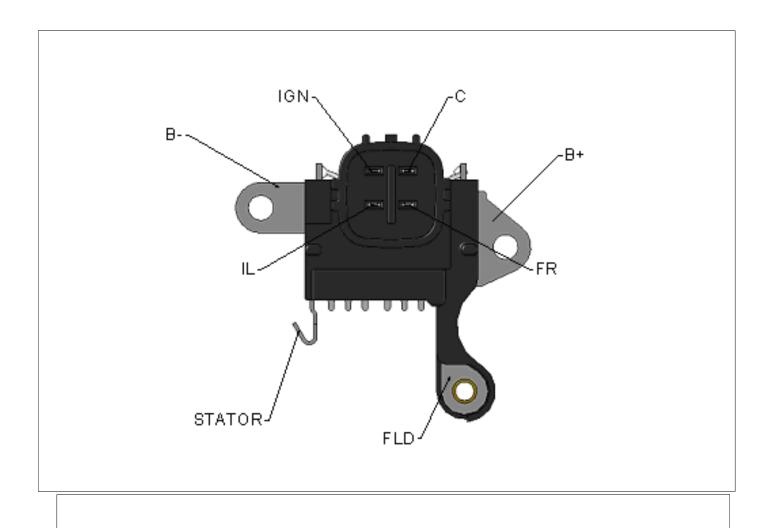
Page 560 Product Group M-41 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO type regulators PART NO VOLT SET DOINT FID SET DOINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6315T	В	12	14.35				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect terminal C with B-, Setpoint drops to 12.7+/-0.2V.

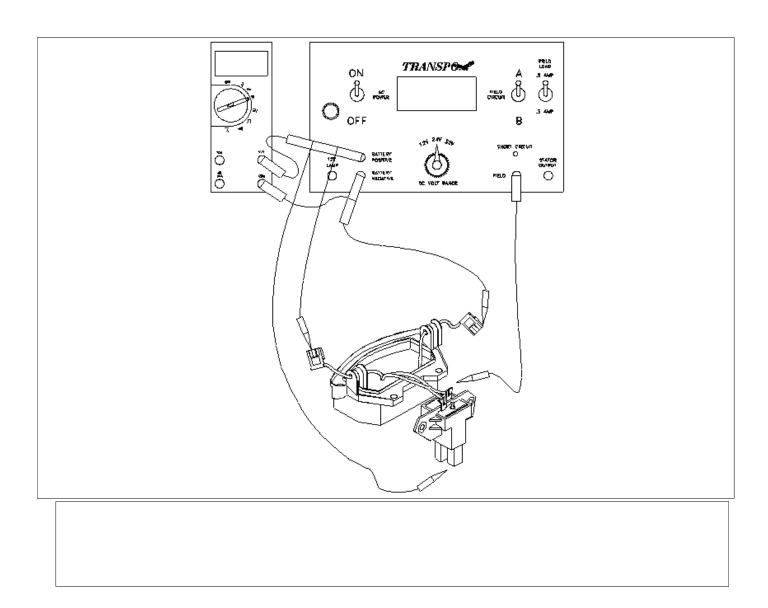


Product Group IN-85 Revision: Date: 1/6/2021 Page 561

TRANSPO TESTER INSTRUCTIONS for PARIS RHONE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP129BCN	Α	24	28.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 562 Product Group IP-12 Revision: Date : <u>1/6/2021</u>

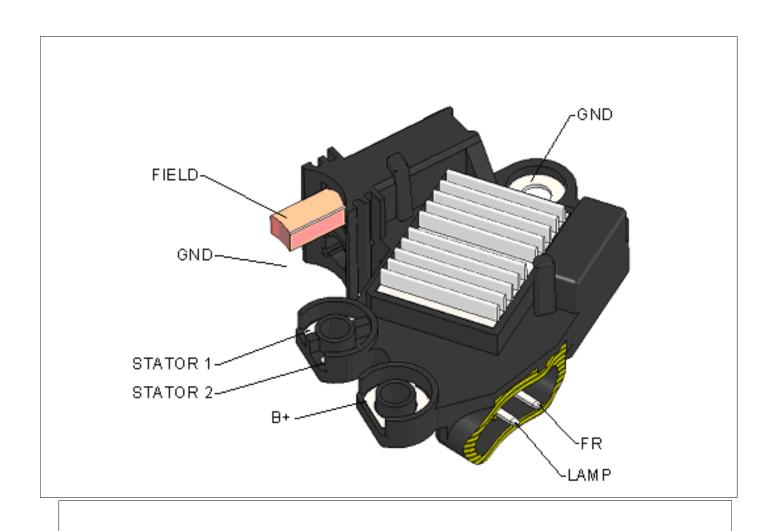
		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M524T	В	12	14.65				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Disconnect the Stator terminal and the Lamp should turn ON.



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type regulators

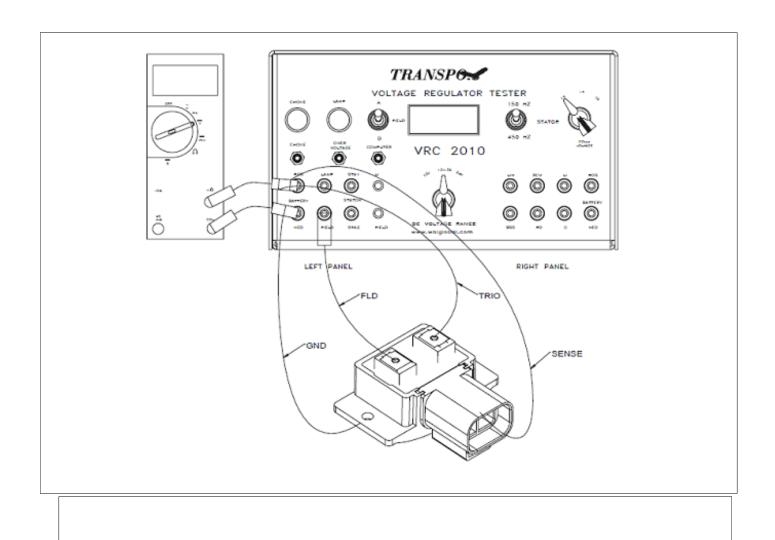
GAUSS

					_		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
PG102	Α	12	14.3				
PG126	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Sense, the set point will be 16.2V +/-0.3V.

for



Page 564 Product Group FG-3 Revision: Date: <u>1/6/2021</u>

NIPPONDENSO

PART NO. FI D **VOLT** SET POINT PART NO. FLD VOLT SET POINT

type regulators

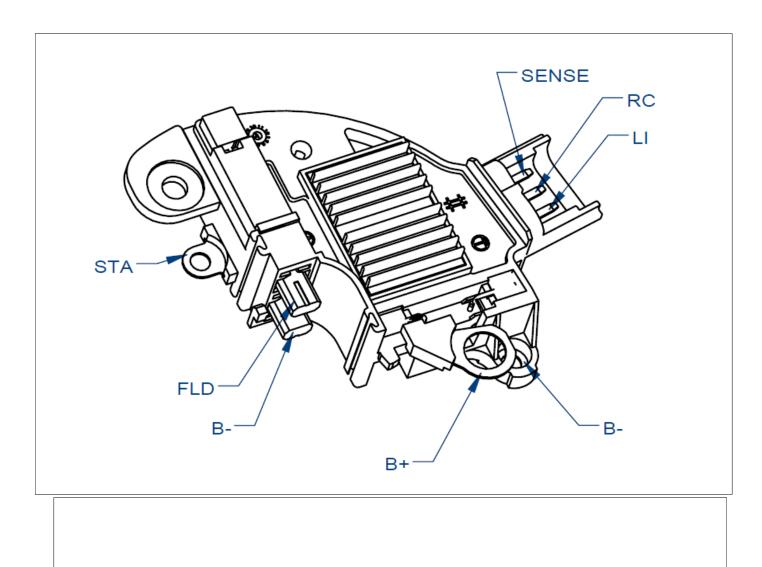
1741110.	I LD	VOLI	OLI I OIIVI	1741110:	I LD	VOLI	OLI I OIIVI
IX137	В	12	13.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to RCV of VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 13.0V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 15.0V.

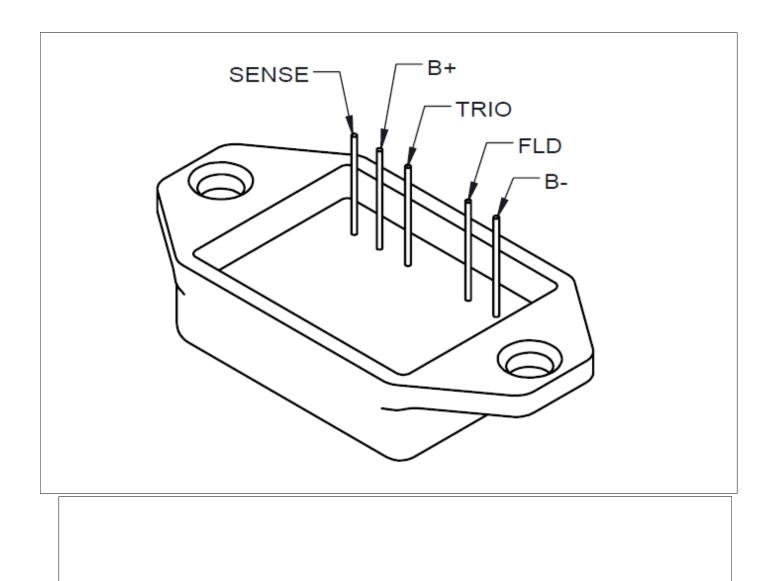


Product Group D-62 Date: 1/6/2021 Revision: Page 565

		for	NIKKO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IZ228	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

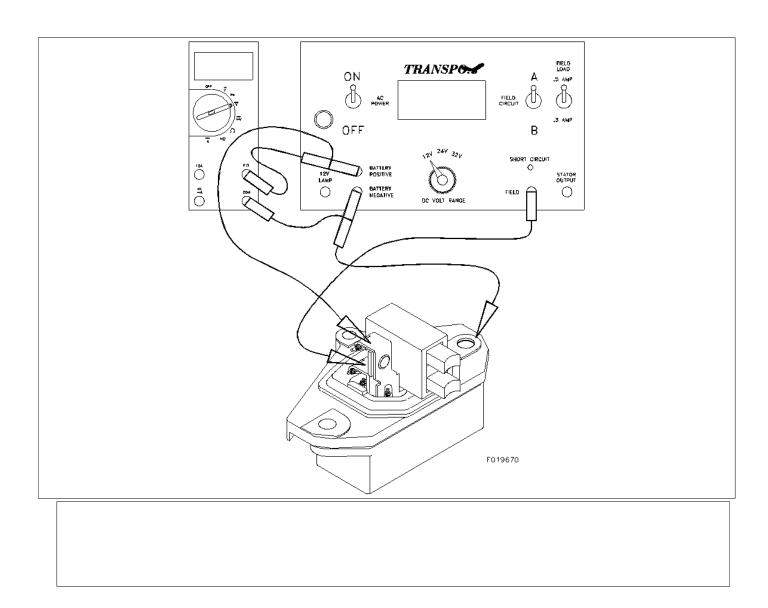
Connect Sense, B+ and Trio to VRC B+.



Page 566 Product Group IZ-03 Revision: Date: <u>1/6/2021</u>

		for	Bosch	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB381HD	Α	24	28.05				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 567 Product Group IB-63 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO

PART NO. FLD **VOLT** SET POINT PART NO. FLD VOLT SET POINT

type regulators

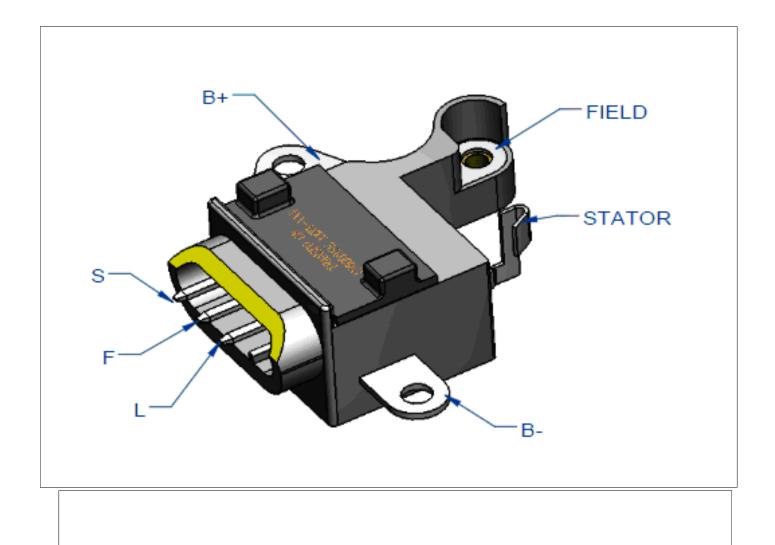
		VOL.	02110111	 	1021	02110111
IN6003SE	В	12	15.0			

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON.

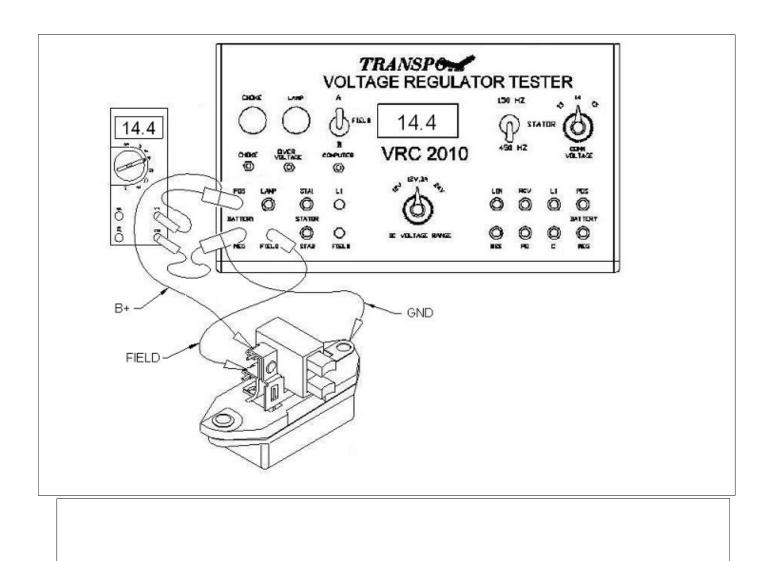
Reconnect the Stator terminal, disconnect the Sense, the set point will be 15.15V +/-0.2V, and the Lamp should turn ON.



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		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB368SE	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M562	В	12	14.5				

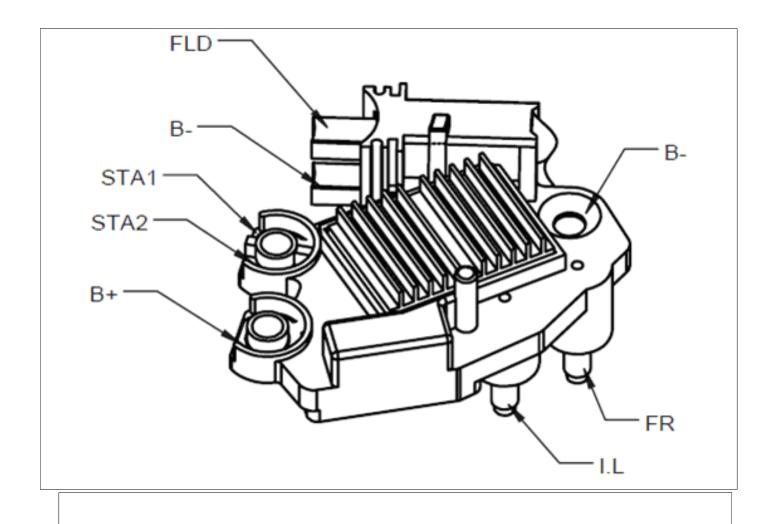
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



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		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6026	В	12	14.5				
IB6026CN	В	12	14.5				
IB6026V	В	12	14.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

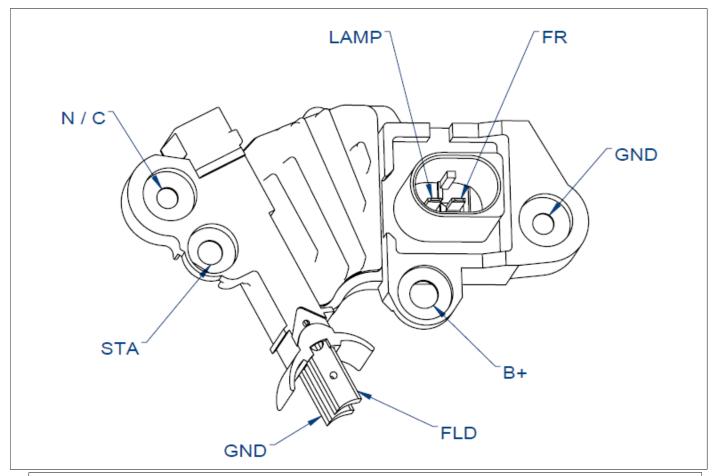
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the choke drive and the "Choke Drive Indicator Lamp" will turn on.

Disconnect the Stator terminal and the Light should turn ON.



Switch the STATOR to 450Hz.

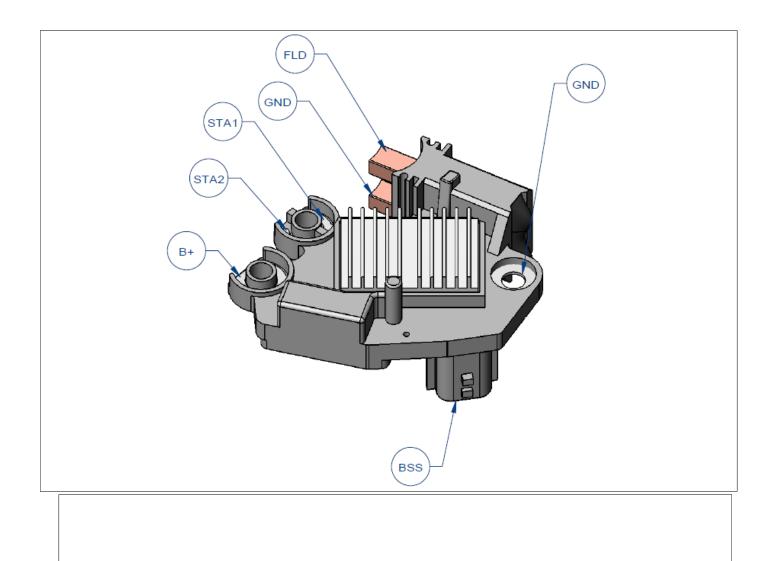
Page 571 Product Group IB-108 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M571	В	12	14.4				
M567	В	12	14.85				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



Page 572 Product Group M-48 Revision: Date : <u>1/6/2021</u>

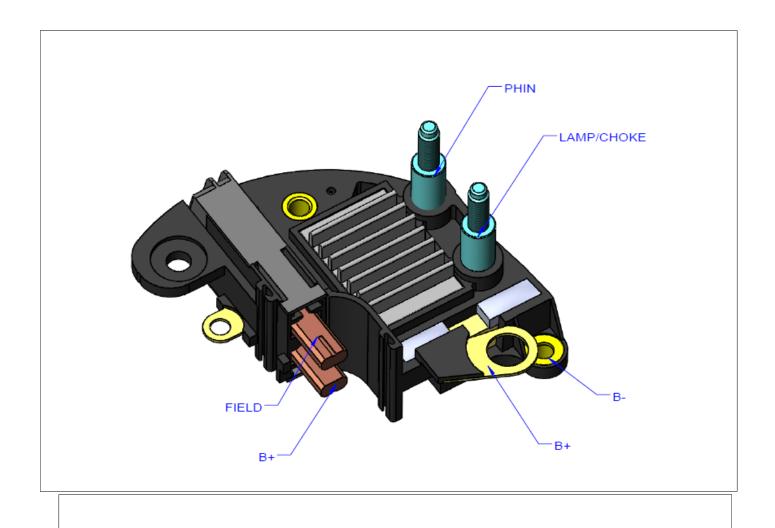
for MAGNETI MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX594	Α	12	14.45				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on. Disconnect the Stator terminal and the Lamp should turn ON.



Page 573 Product Group IX-14 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M574	В	12	14.5				

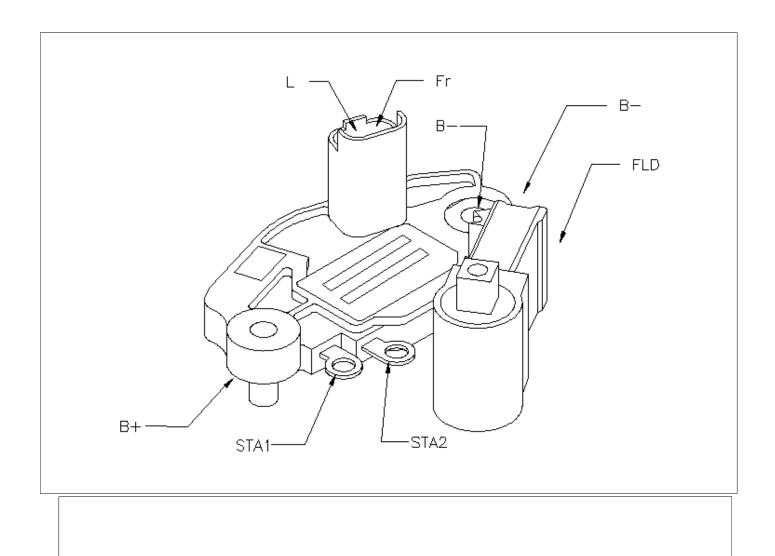
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



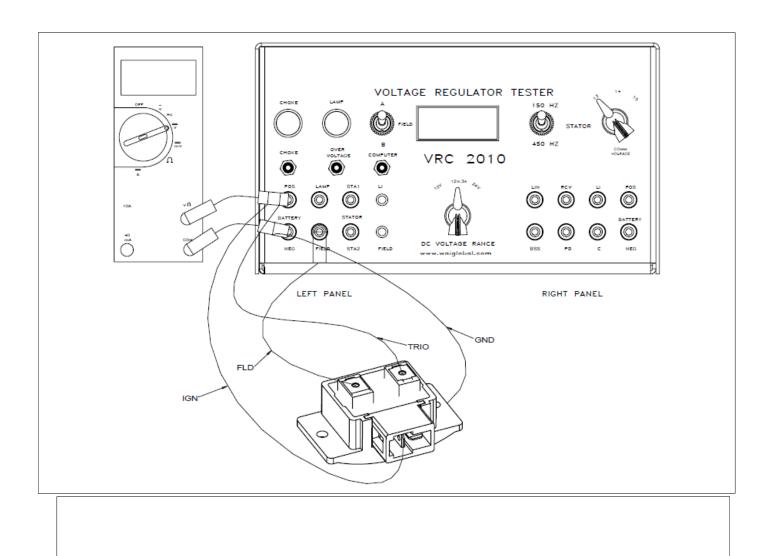
Page 574 Product Group M-51 Revision: Date : <u>1/6/2021</u>

		for	GAUSS	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
PG103	Α	24	29.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect IGN, the setpoint should be 29.1+/-0.3V.

Reconnect the IGN terminal, and disconnect TRIO, the setpoint will rise a little bit.



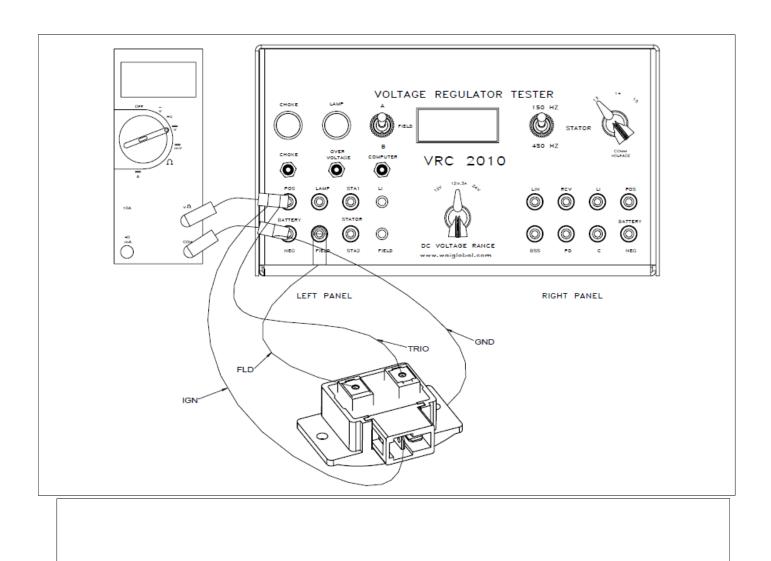
Page 575 Product Group FG-4 Revision: Date : <u>1/6/2021</u>

		for	GAUSS	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
PG101	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect IGN, the setpoint should be 14.6+/-0.3V.

Reconnect the IGN terminal, and disconnect TRIO, the setpoint will rise a little bit.



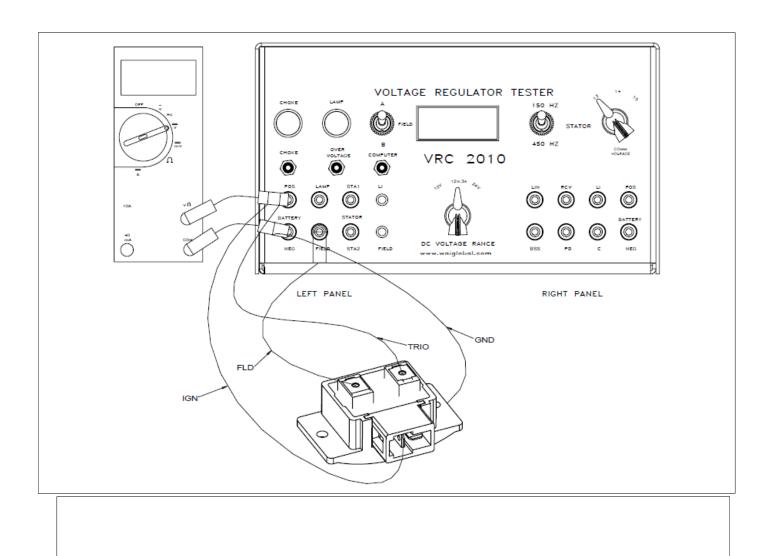
Page 576 Product Group FG-1 Revision: Date : <u>1/6/2021</u>

		for	GAUSS	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
PG133	Α	24	28.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect IGN, the setpoint should be 28.6+/-0.3V.

Reconnect the IGN terminal, and disconnect TRIO, the setpoint will rise a little bit.



Page 577 Product Group FG-2 Revision: Date : <u>1/6/2021</u>

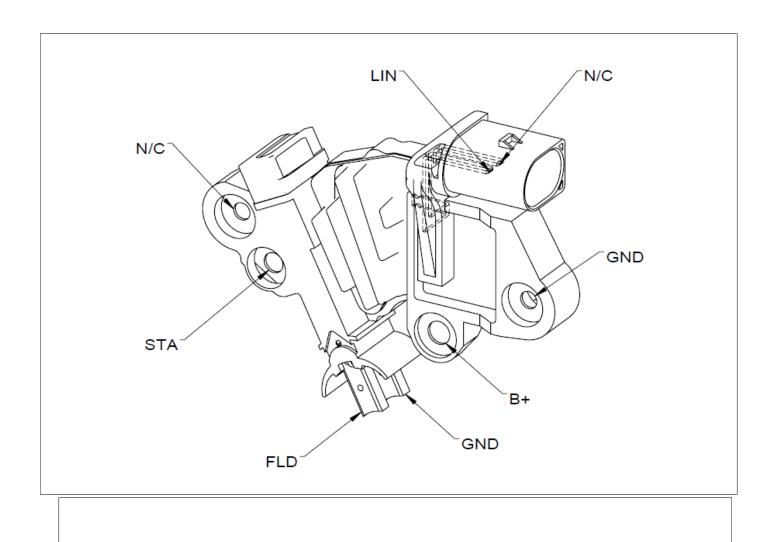
		tor	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6056	В	12	13.9*				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.

* The 13.9V Set Point indicate above is the 'default VSet' (no LIN input).



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		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5356	Α	12	14.4				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

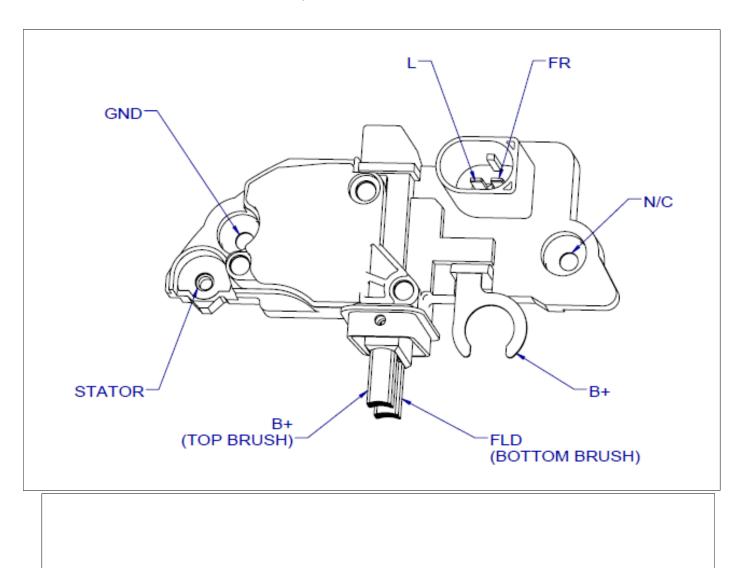
3. Amendments or Additional Tests:

Do not connect the FR terminal.

Booting time is 12.6s.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

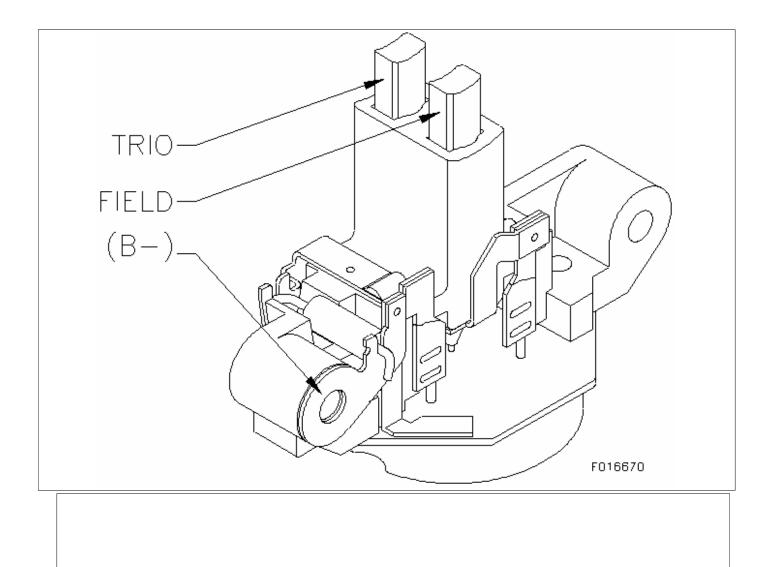


Page 579 Product Group IB-66 Revision: Date : 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB387CN-B160	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



Page 580 Product Group IB-67 Revision: Date: <u>1/6/2021</u>

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6011	В	12	14.45				

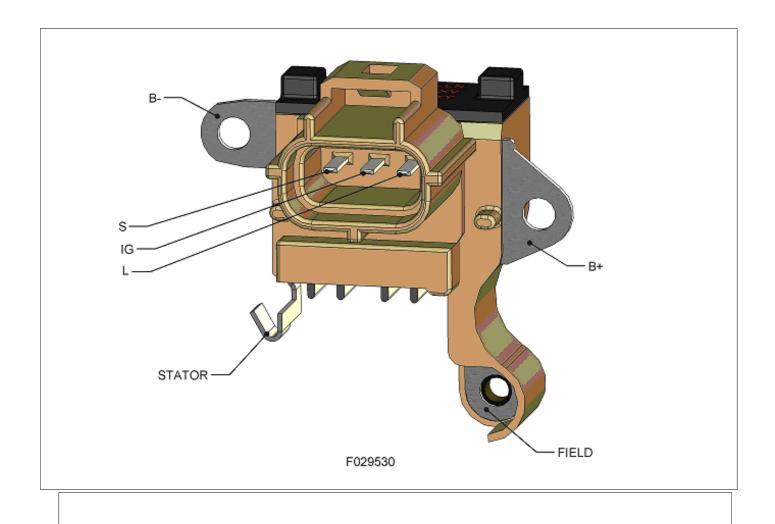
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

Reconnect the Stator terminal, disconnect the Sense, the set point will be 14.45V +/-0.2V.



Page 581 Product Group IN-74 Revision: Date: <u>1/6/2021</u>

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB238	Α	12	14.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

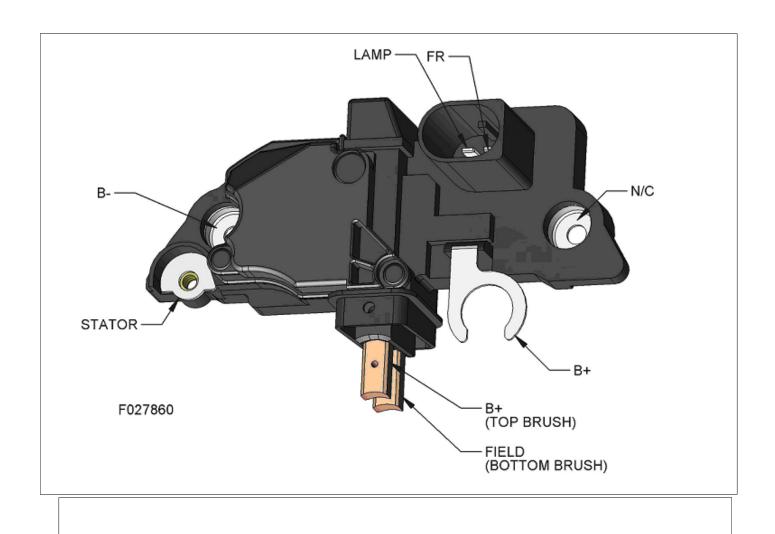
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



Page 582 Product Group IB-68 Revision: Date : <u>1/6/2021</u>

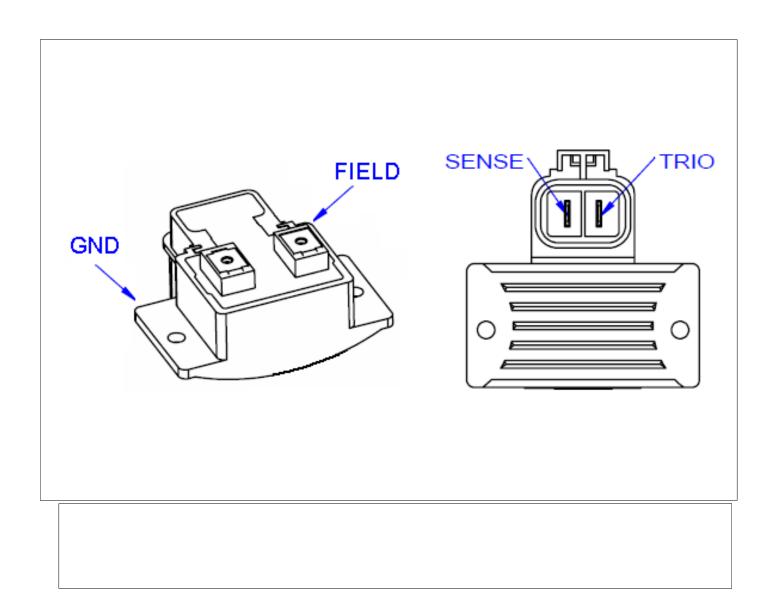
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect TRIO to B+ of VRC2010.

Disconnect the Sense, the set point will be 15.7V +/-0.2V.



Page 583 Product Group S-02 Revision: Date: 1/6/2021

type regulators

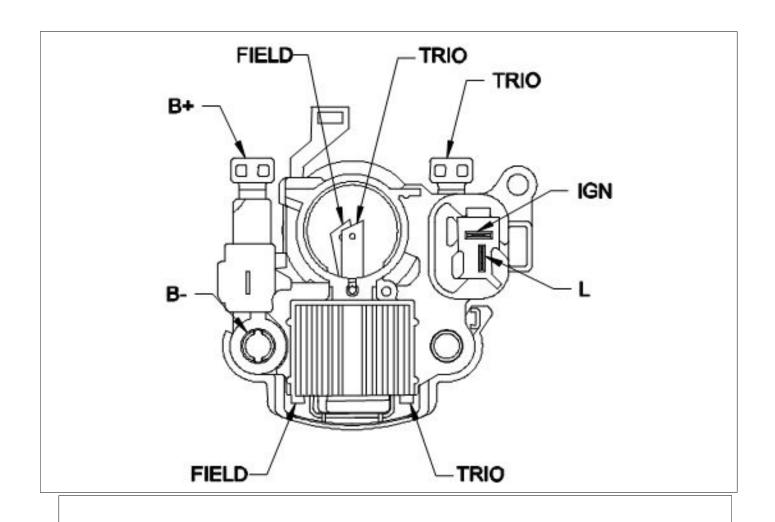
MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM295	Α	12	14.8				
IM295CN	Α	12	14.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO and IGN to B+.



Page 584 Product Group IM-66 Revision: Date : <u>1/6/2021</u>

type regulators

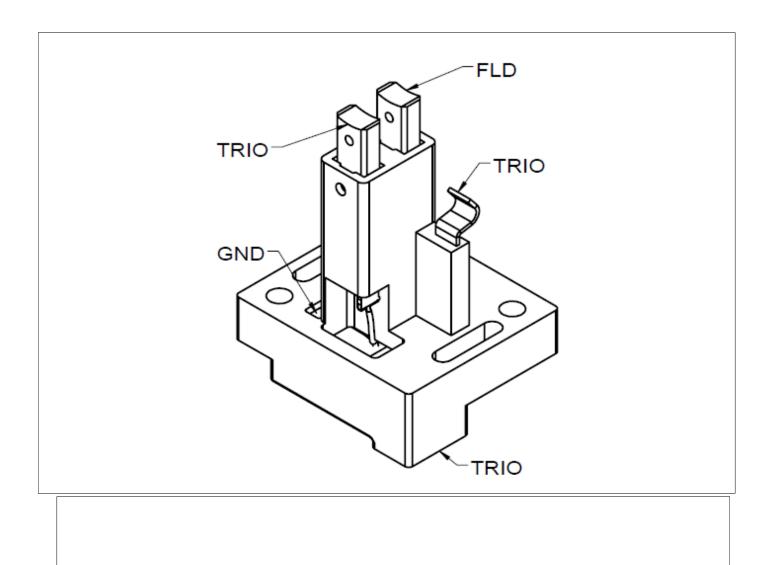
BOSCH

				,po regulation			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB003	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+ of VRC2010.

for



Page 585 Product Group IB-69 Revision: Date : 1/6/2021

NIPPONDENSO

PART NO. FLD VOLT SET POINT PART NO. FLD VOLT SET POINT

IN372 A 12 14.2

type regulators

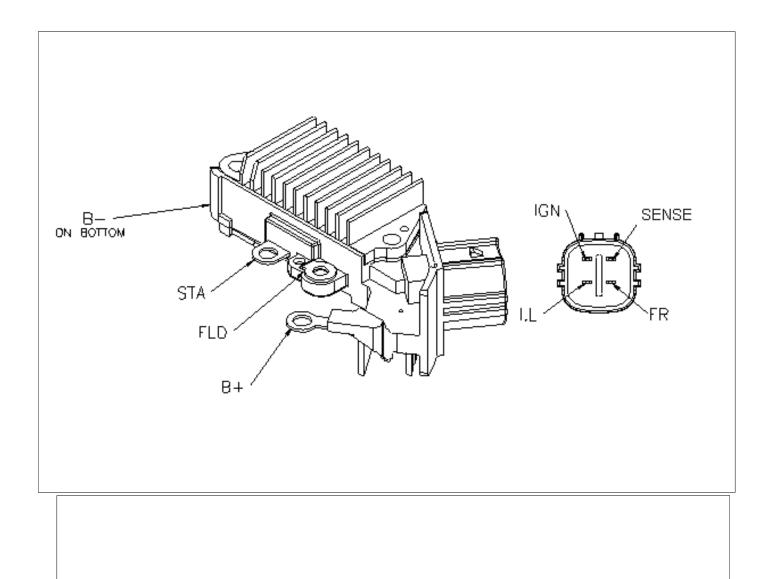
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Connect IGN and SENS to B+, the setpoint is 14.2+/-0.2V.

Disconnect SENS, the setpoint goes to 14.5+/-0.2V and the Lamp should turn ON.



Page 586 Product Group IN-58 Revision: Date: 1/6/2021

		for BOSCH		type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IB313	Α	12	14.5					
IB313S	Α	12	14.5					

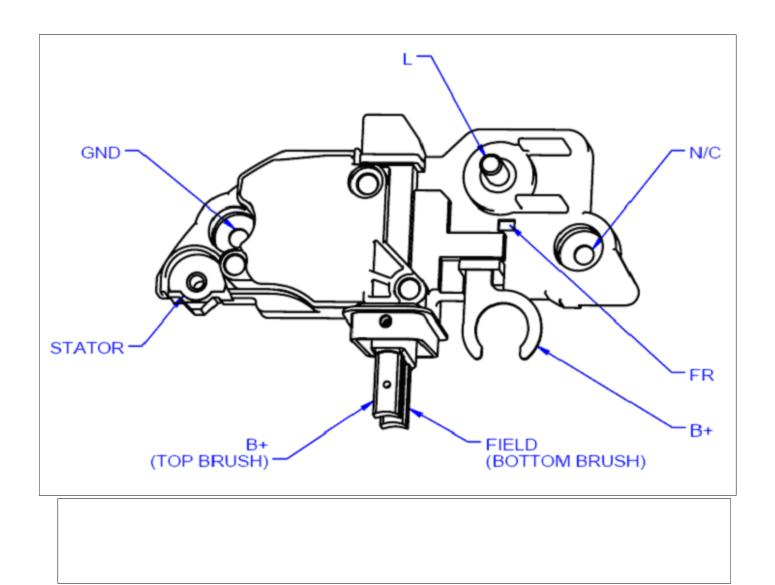
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



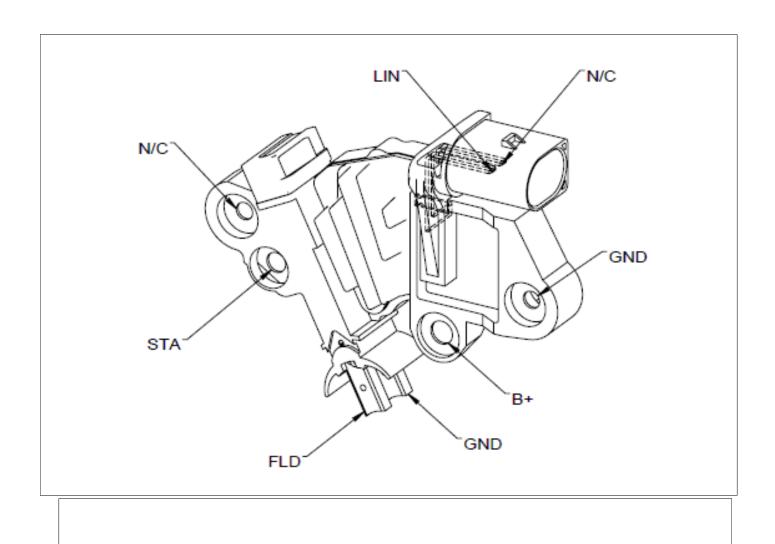
Page 587 Product Group IB-104 Revision: Date : <u>1/6/2021</u>

		tor	возсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6037	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



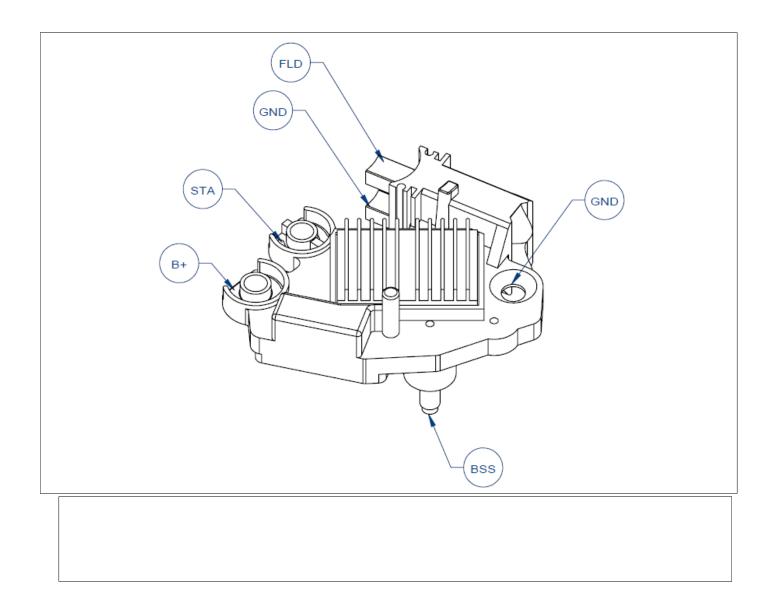
Page 588 Product Group IB-70 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
M543	В	12	14.3					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



Page 589 Product Group M-30 Revision: Date : <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D411HD-HM	В	12	14.8				

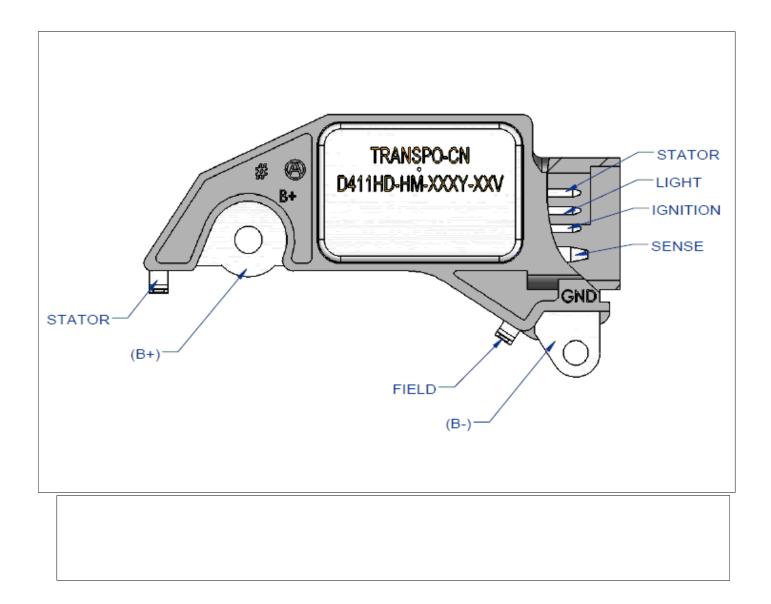
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

Reconnect the Stator terminal, disconnect the Sense, the set point will be 14.8V +/-0.25V.



Page 590 Product Group D-55 Revision: Date: 1/6/2021

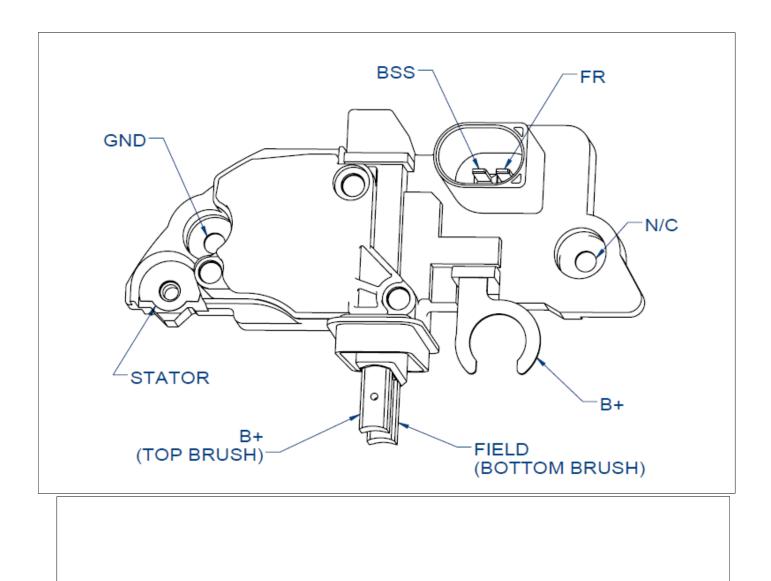
		tor	воѕсн	type regulat	tors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB293	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



Page 591 Product Group IB-71 Revision: Date: 1/6/2021

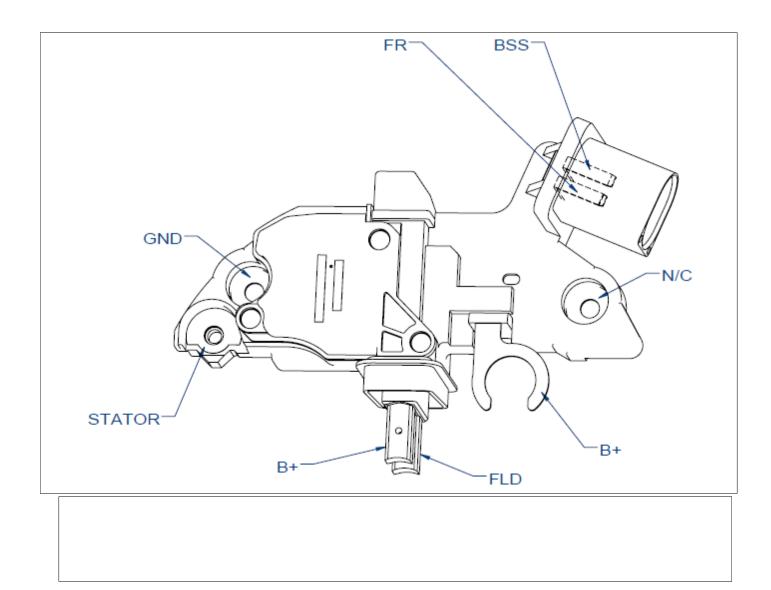
		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6132	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



Page 592 Product Group IB-72 Revision: Date : <u>1/6/2021</u>

MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM473	Α	12	14.6				

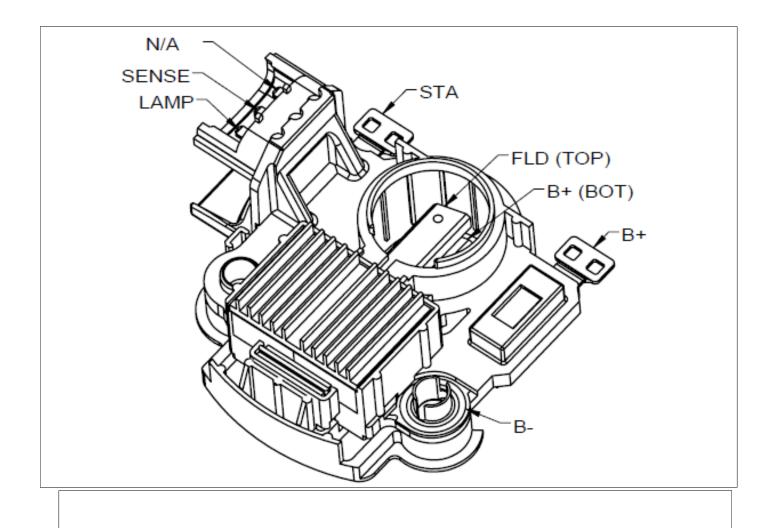
type regulators

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect SENSE, the Setpoint should be 15.6 +/-0.2V and the Lamp turn ON. Reconnect the SENSE terminal, disconnect the Stator terminal and the Lamp should turn ON.



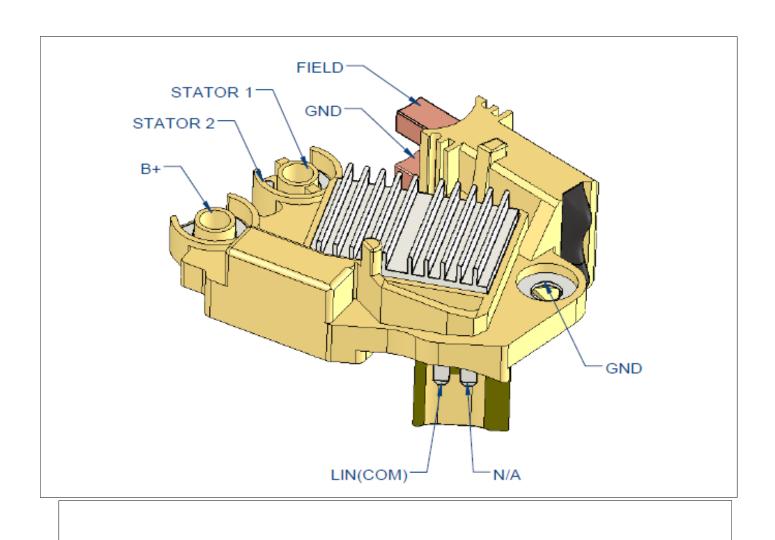
Page 593 Product Group IM-70 Revision: Date: 1/6/2021

		for VALEO		type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
M573	В	12	14.5					
M573V1	В	12	14.5					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.

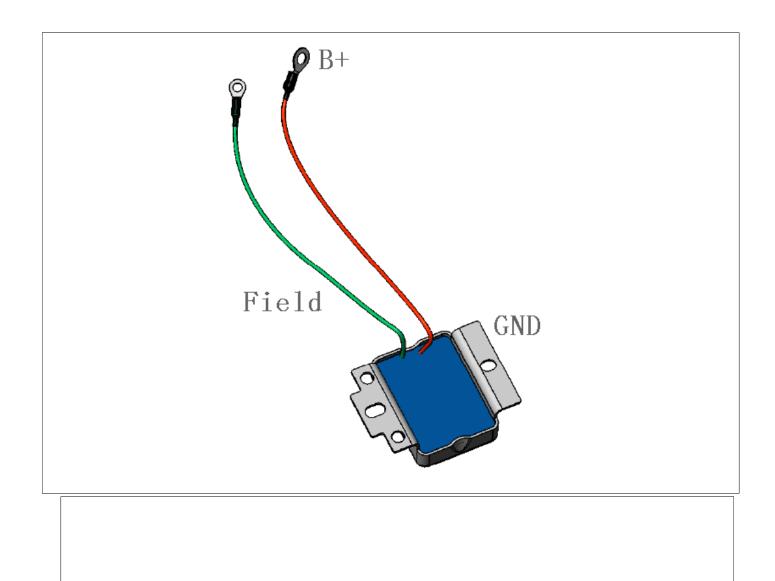


Page 594 Product Group M-50 Revision: Date : <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for SPECIALTY type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
P8-393HD	В	24	27.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 595 Product Group S-01 Revision: Date: <u>1/6/2021</u>

		for	VALEO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M579	В	12	14.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

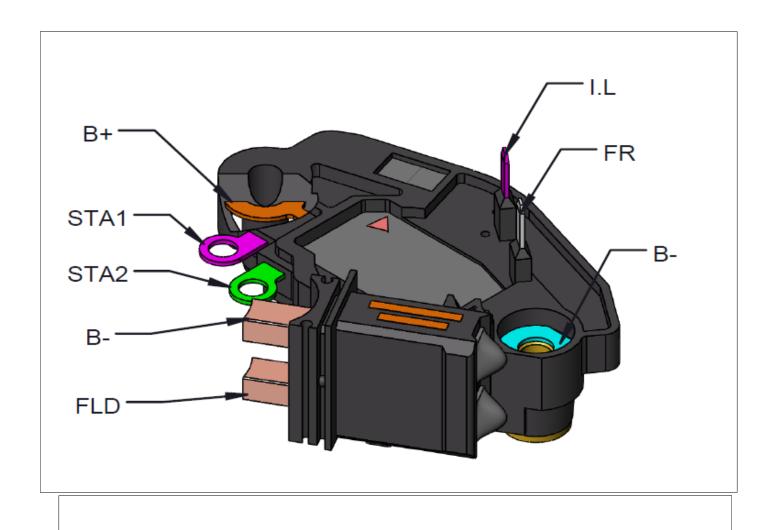
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



Page 596 Product Group M-54 Revision: Date: <u>1/6/2021</u>

type regulators

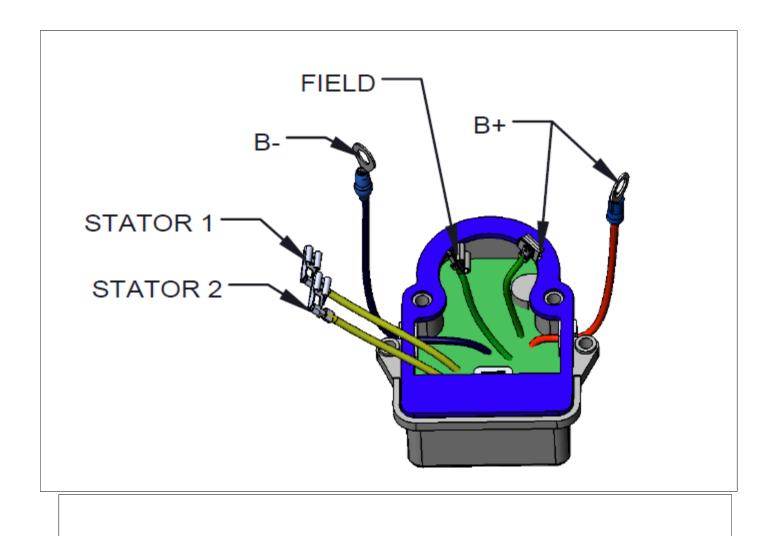
MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-329AHD	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal, the regulator should stop works.

for

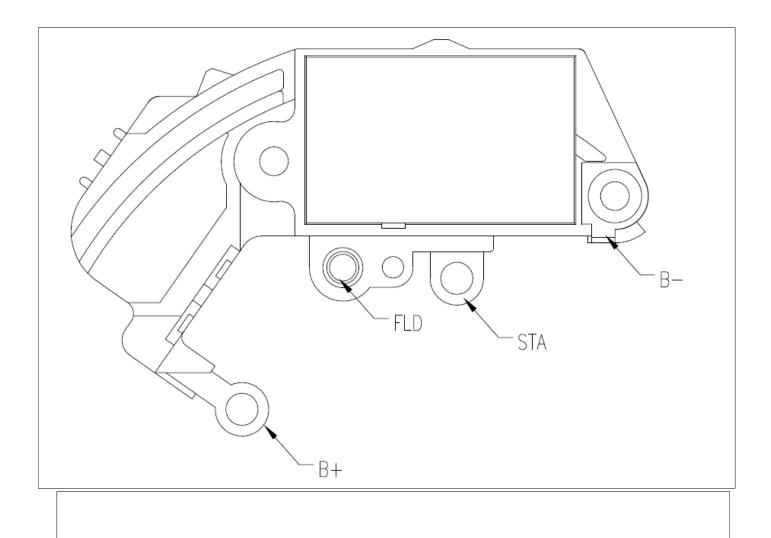


Page 597 Product Group M5-58 Revision: Date : <u>1/6/2021</u>

type regulators

NIPPONDENSO

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



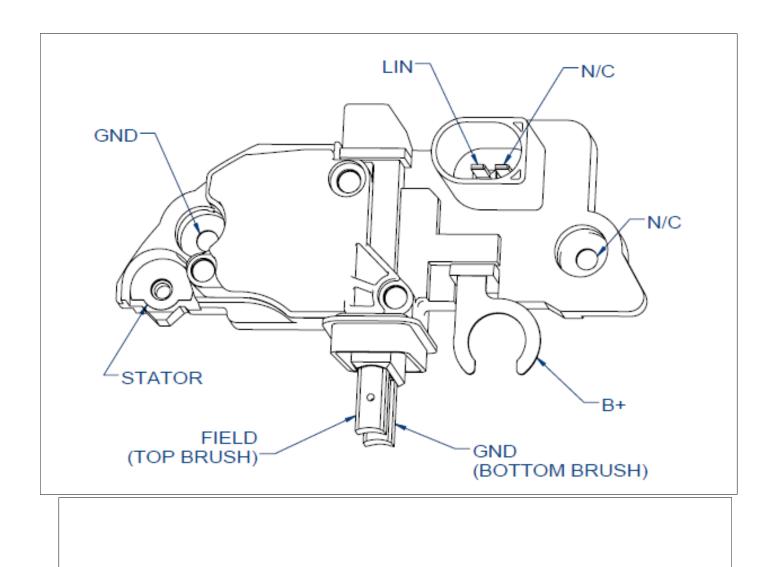
Page 598 Product Group IN-62 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IB6197	В	12	14.5					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



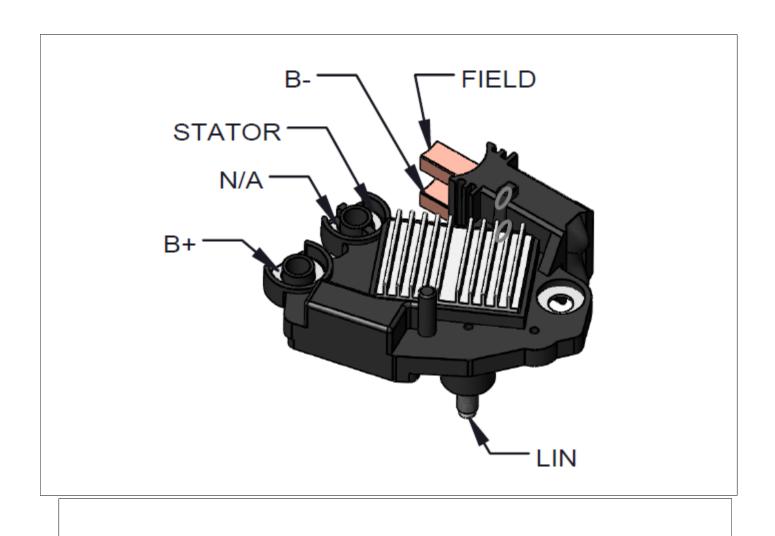
Page 599 Product Group IB-73 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M576	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



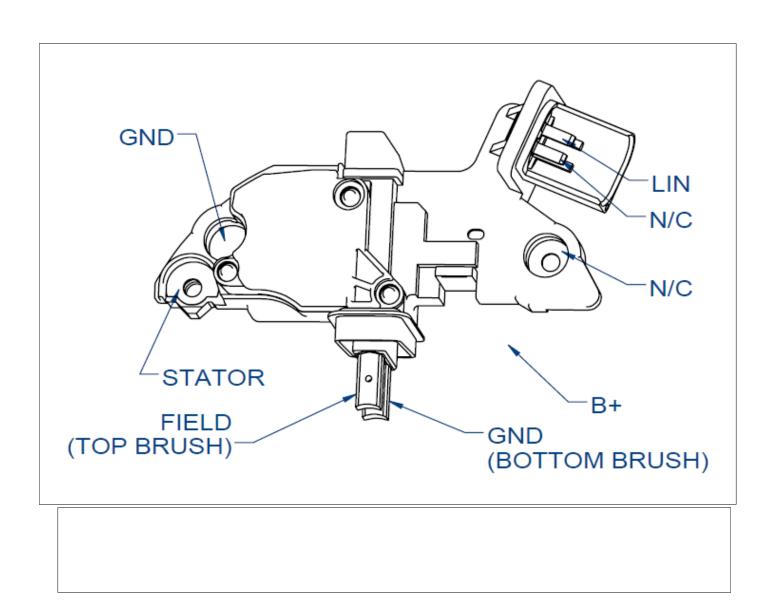
Page 600 Product Group M-53 Revision: Date: <u>1/6/2021</u>

		тог	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5378	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



Page 601 Product Group IB-74 Revision: Date: 1/6/2021

type regulators

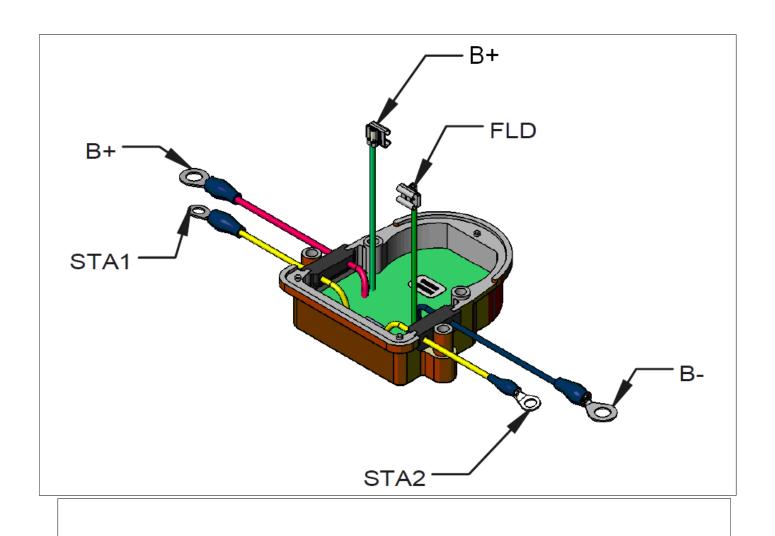
MOTOROLA

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-280AHD	A	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal, the regulator should stop works.

for



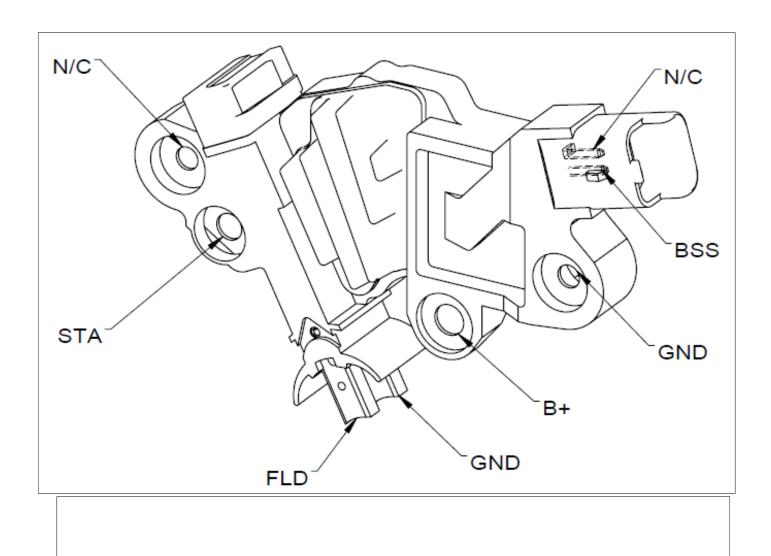
Page 602 Product Group M5-55 Revision: Date: <u>1/6/2021</u>

		TOT	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6135	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



Page 603 Product Group IB-75 Revision: Date: <u>1/6/2021</u>

NIPPONDENSO

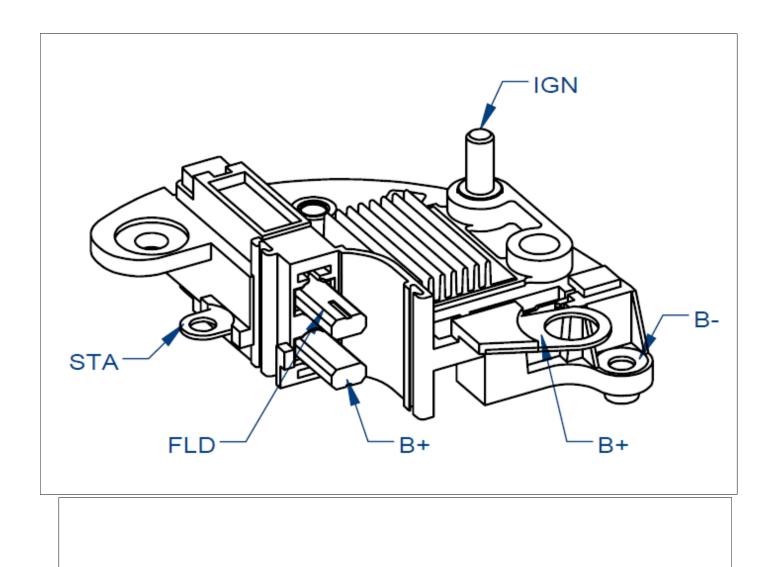
PART NO. FLD VOLT SET POINT PART NO. FLD VOLT SET POINT

IX136 A 12 14.3

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the IGN terminal, the regulator should stop works.



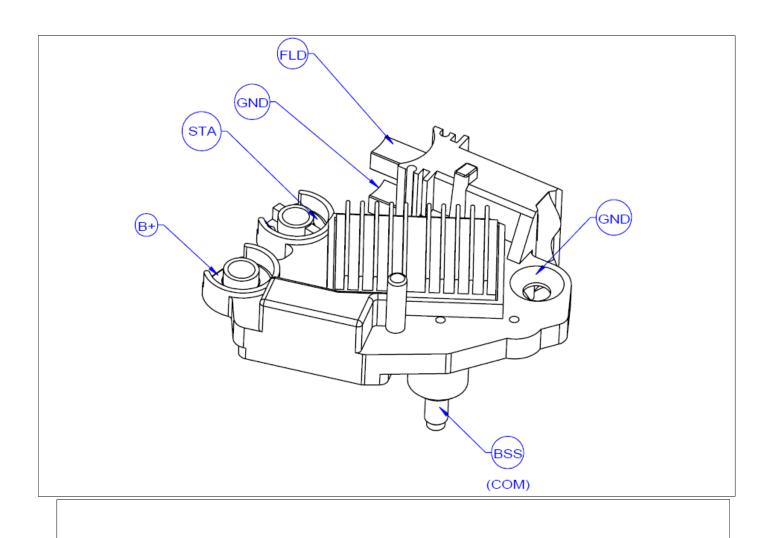
Page 604 Product Group D-63 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M575	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.

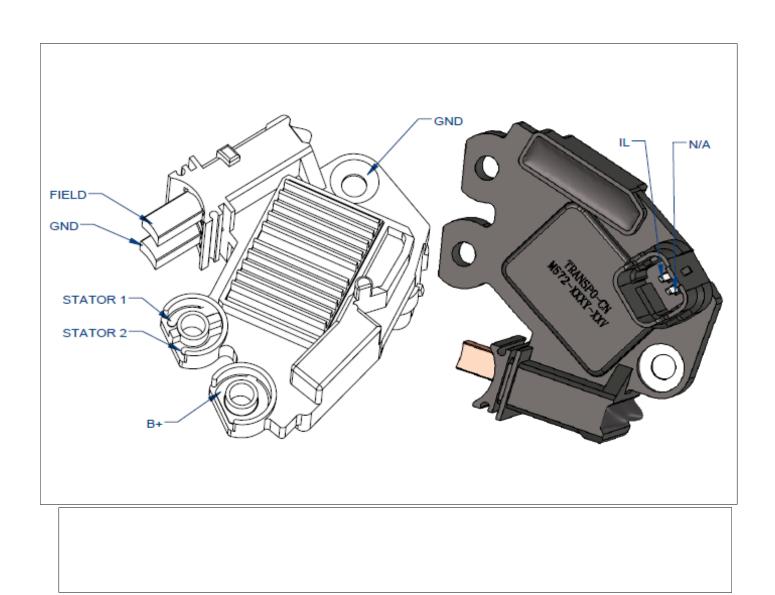


Page 605 Product Group M-52 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulate	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
M572	В	12	14.7						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON.



Page 606 Product Group M-49 Revision: Date: 1/6/2021

type regulators

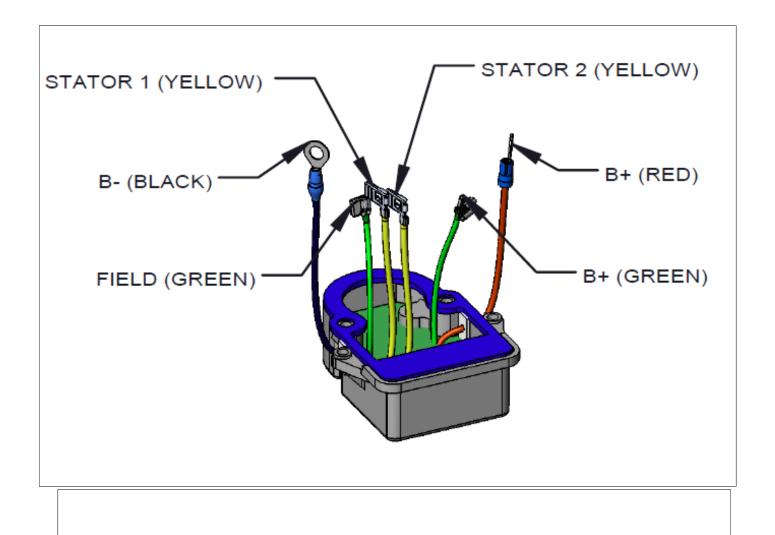
MOTOROLA

		_					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-338	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal, the regulator should stop works.

for



Page 607 Product Group M5-59 Revision: Date: <u>1/6/2021</u>

		for	MITSUBISHI	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM362	Α	12	14.5				

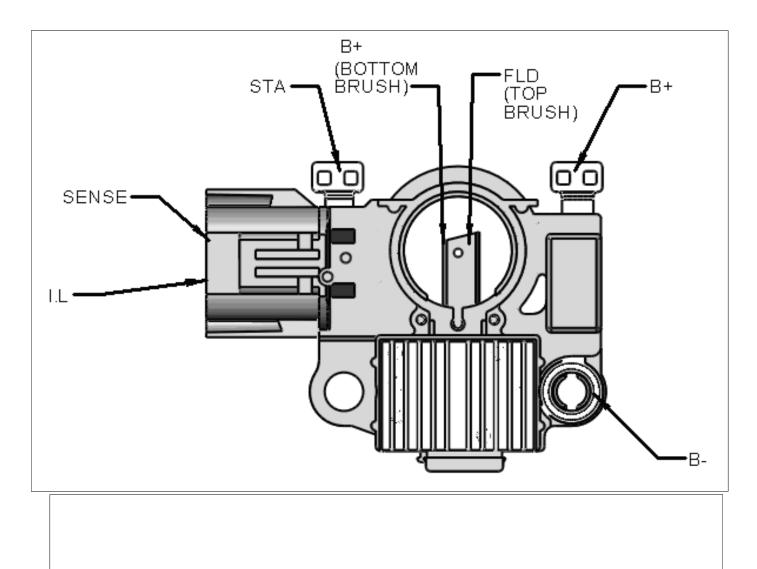
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

Reconnect the Stator terminal, disconnect the Sense, the "Lamp Indicator" will turn on and the set point will be 15.5V + -0.2V.



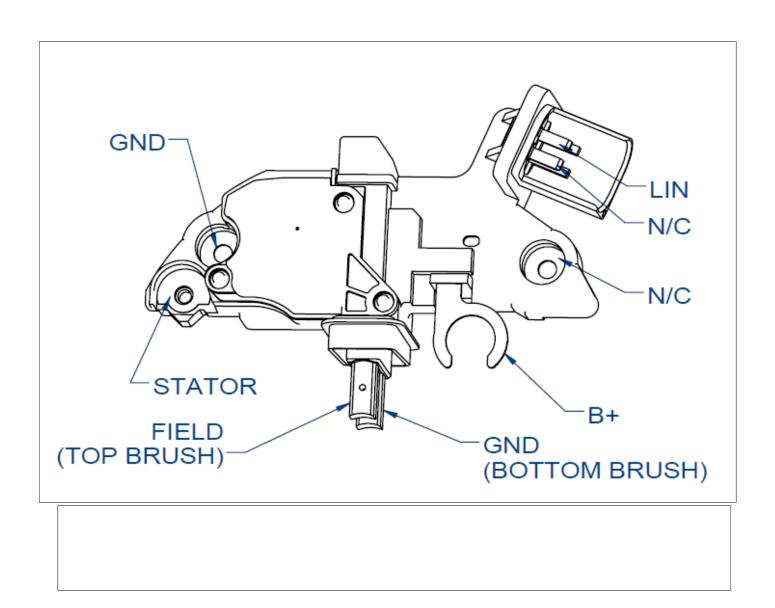
Page 608 Product Group IM-68 Revision: Date: 1/6/2021

		TOT	возсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB885	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



Page 609 Product Group IB-76 Revision: Date: 1/6/2021

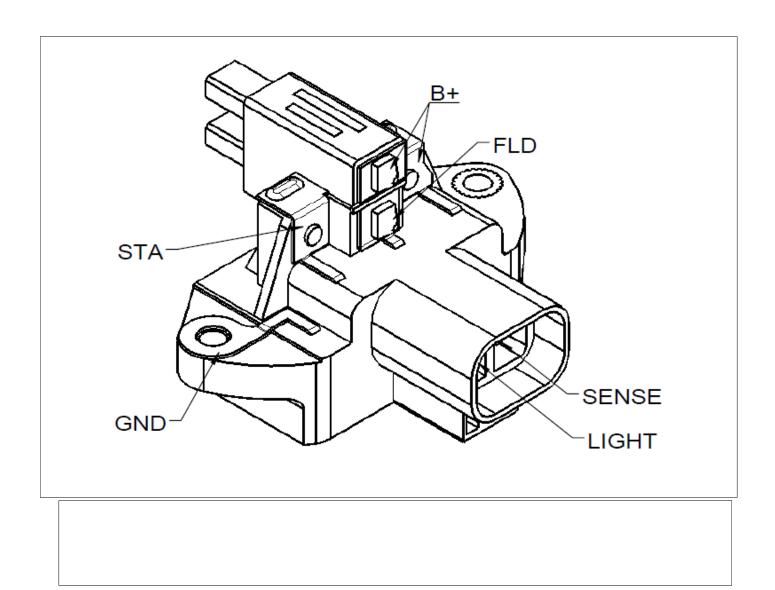
		for	BOSCH	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB059	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON.

Reconnect the Stator terminal, disconnect the Sense, the Lamp should turn ON and set point will be 14.5V +/ -0.2V.

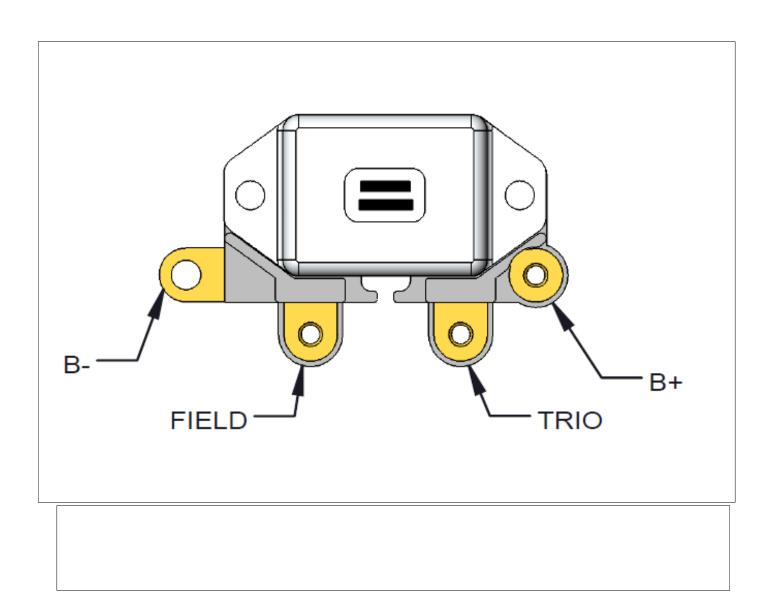


Page 610 Product Group IB-77 Revision: Date: 1/6/2021

		for	NIKKO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IZ229	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



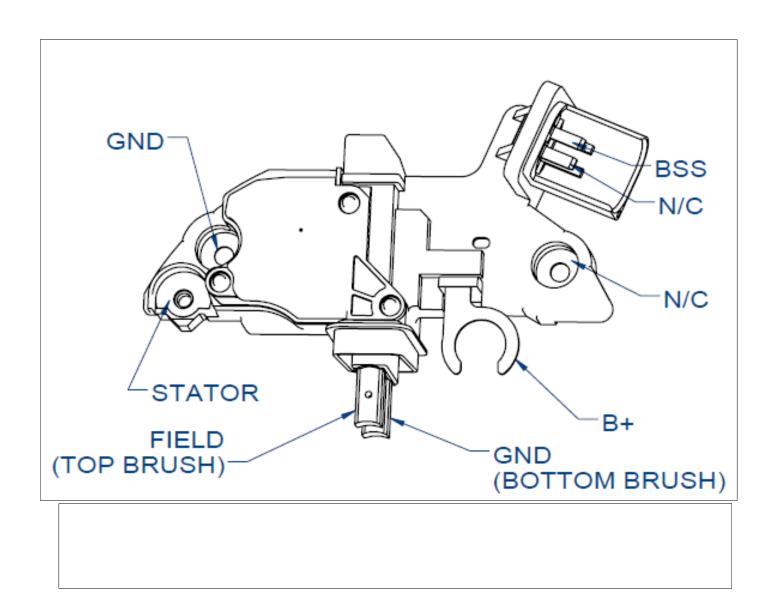
Page 611 Product Group IZ-02 Revision: Date: <u>1/6/2021</u>

		tor	воѕсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5289	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



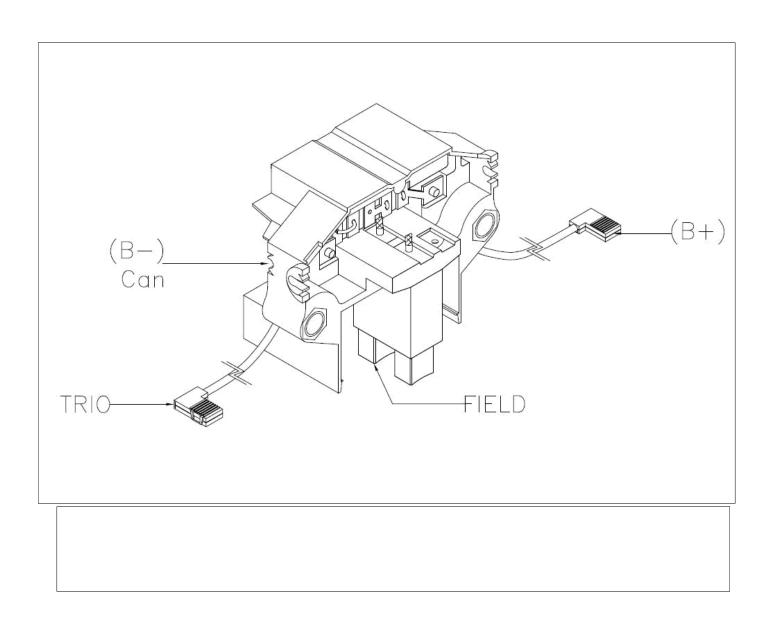
Page 612 Product Group IB-78 Revision: Date: 1/6/2021

PARIS RHONE

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



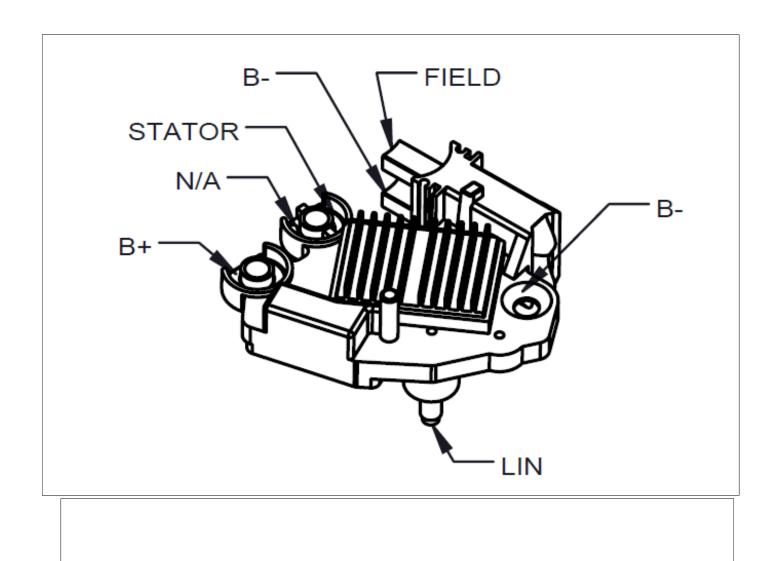
Page 613 Product Group IP-14 Revision: Date : 1/6/2021

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M568	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



Page 614 Product Group M-46 Revision: Date: 1/6/2021

type regulators

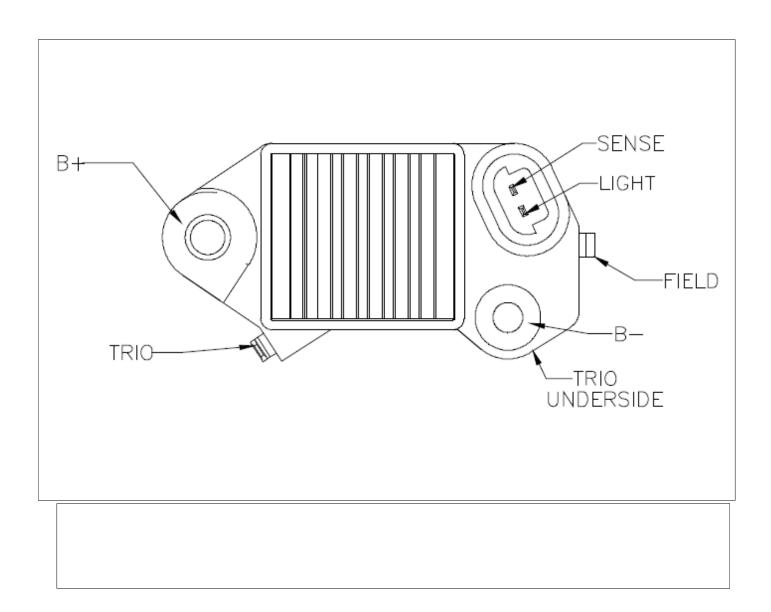
DELCO

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D940-132	Α	12	13.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect SENSE and TRIO to B+.

for



Page 615 Product Group D-56 Revision: Date: <u>1/6/2021</u>

type regulators

MITSUBISHI

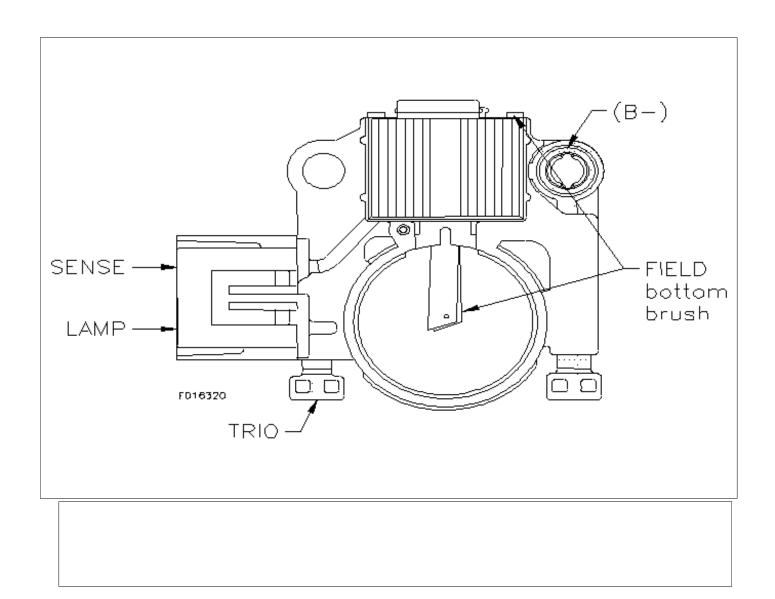
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM849	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on. Disconnect the Sense, the set point will be 15.7V +/-0.3V.

for



Page 616 Product Group IM-86 Revision: Date: <u>1/6/2021</u>

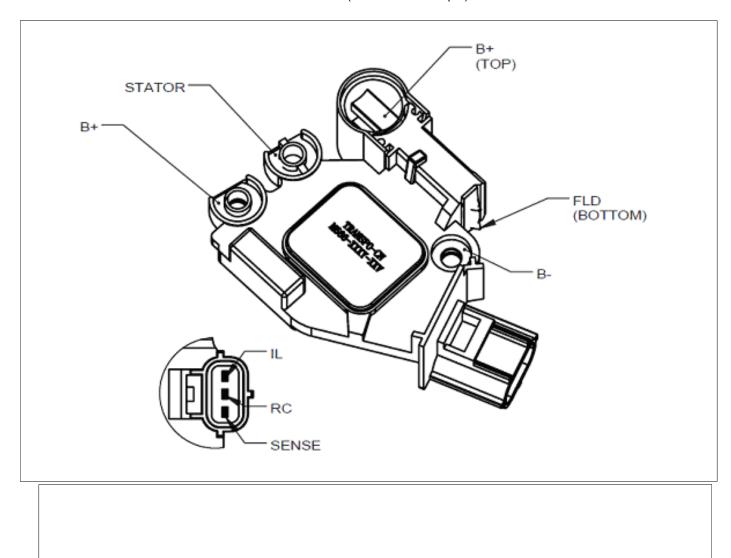
		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M566	Α	12	13.6*				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Use VRC2010 tester to complete RC voltage setpoint testing, Connect RC terminal to VRC2010 tester.

- 1. Adjust Comm Voltage switch to position 13, Setpoint is 13.0V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 14.0V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 15.0V.
- * The 13.6V Set Point indicate above is the 'default VSet' (no vehicle PCM input).



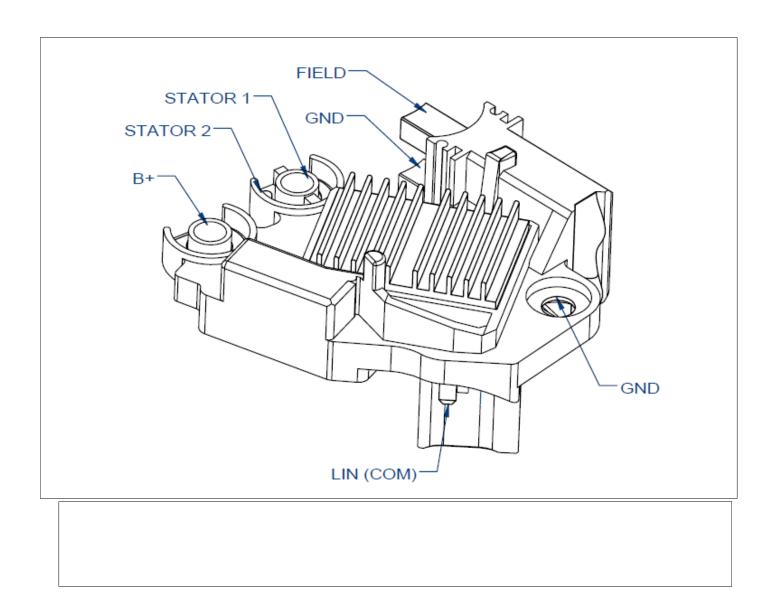
Page 617 Product Group M-45 Revision: Date: 1/6/2021

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M591	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.



Page 618 Product Group M-56 Revision: Date: <u>1/6/2021</u>

		for	VALEO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M542	В	12	14.5				

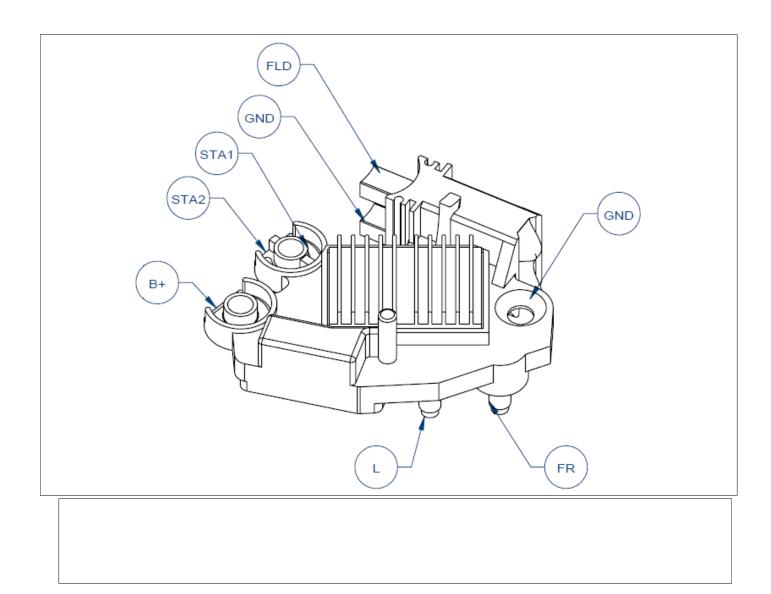
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



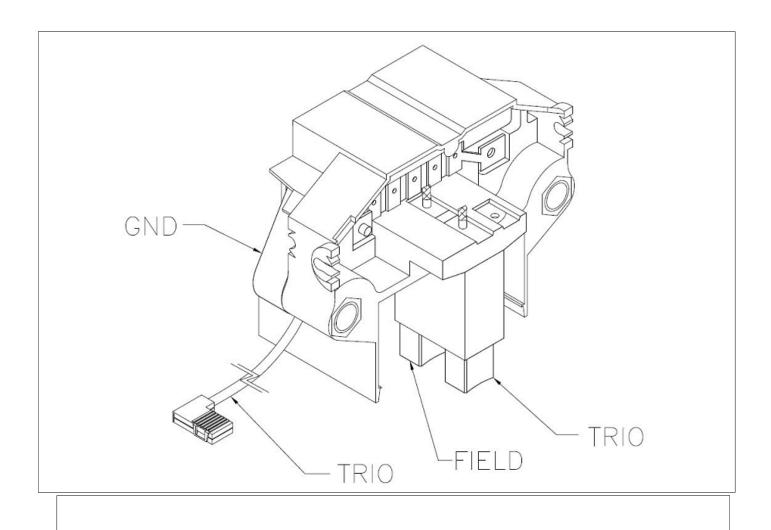
Page 619 Product Group M-29 Revision: Date: <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for PARIS RHONE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP1903	Α	12	14.6				
IP1903V	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



Page 620 Product Group IP-17 Revision: Date : <u>1/6/2021</u>

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6335CN	В	12	14.5				

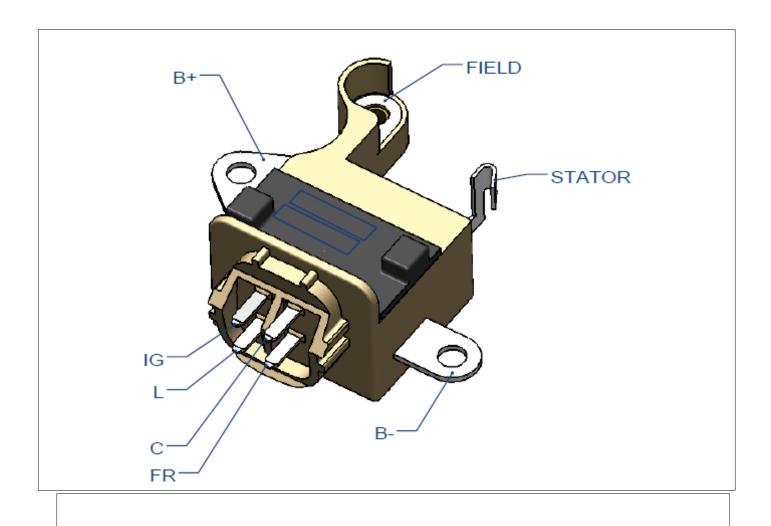
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Connect C to B-, the setpoint should be 12.85+/-0.2V.

Disconnect C, disconnect the Stator terminal and the Lamp should turn ON.



Page 621 Product Group IN-91 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO

type regulators

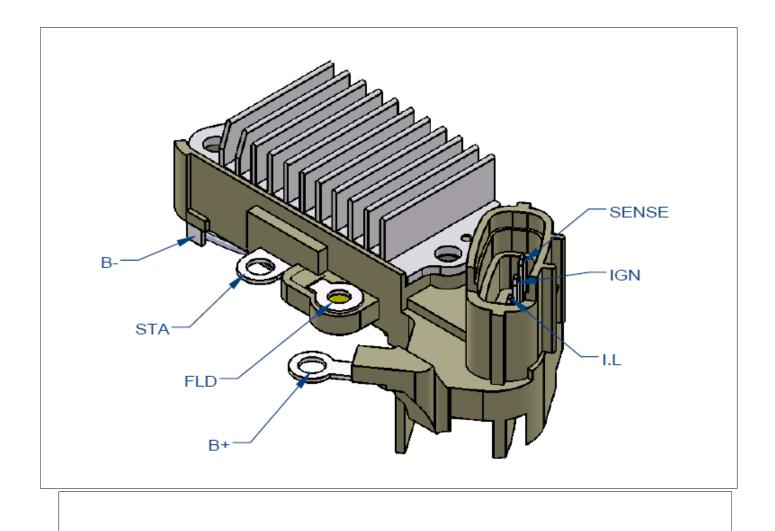
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

Reconnect the Stator, disconnect Sense, the Lamp should turn ON and the set point will be 14.6V +/-0.2V.



Page 622 Product Group IN-61 Revision: Date: 1/6/2021

NIPPONDENSO type regulators PART NO. FLD VOLT SET POINT PART NO. FLD VOLT **SET POINT**

IN456	Α	12	14.5		

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

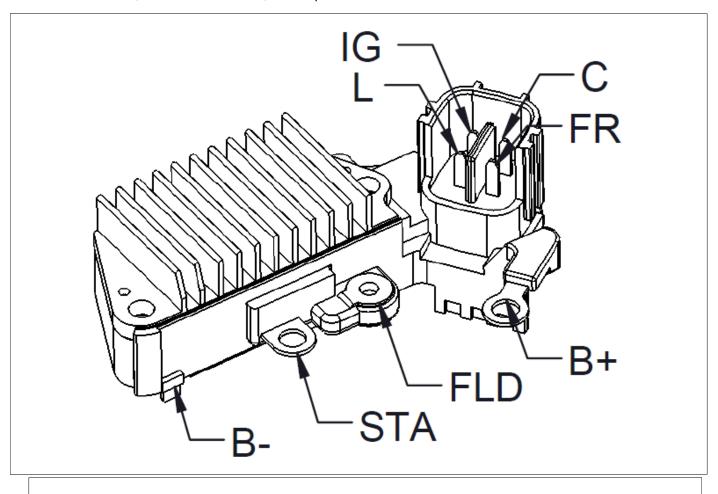
Do not connect the FR and C terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

Reconnect Stator, connect C with GND, the set point will be 12.6V +/-0.2V.



Product Group IN-66 Date: 1/6/2021 Revision: Page 623

for VALEO MOTOROLA type regulators

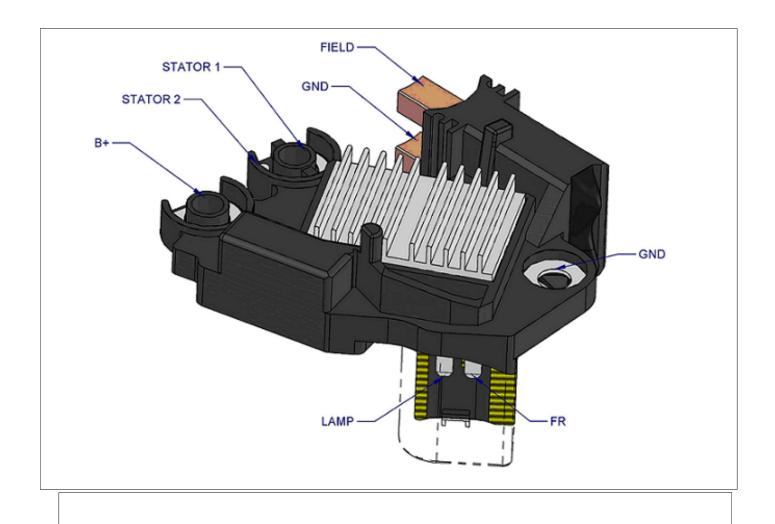
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M578	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

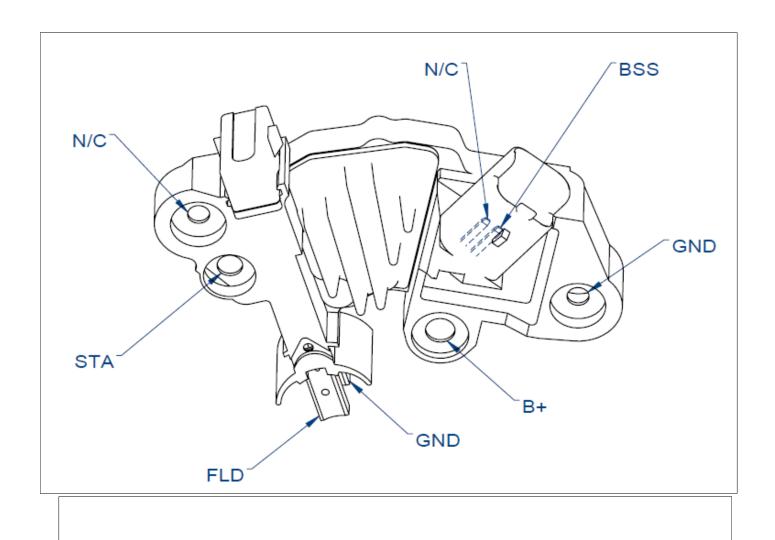


Page 624 Product Group M-66 Revision: Date: <u>1/6/2021</u>

		for	воѕсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6066	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



Page 625 Product Group IB-79 Revision: Date: <u>1/6/2021</u>

type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM691	Α	24	28.5				
IM691HD	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

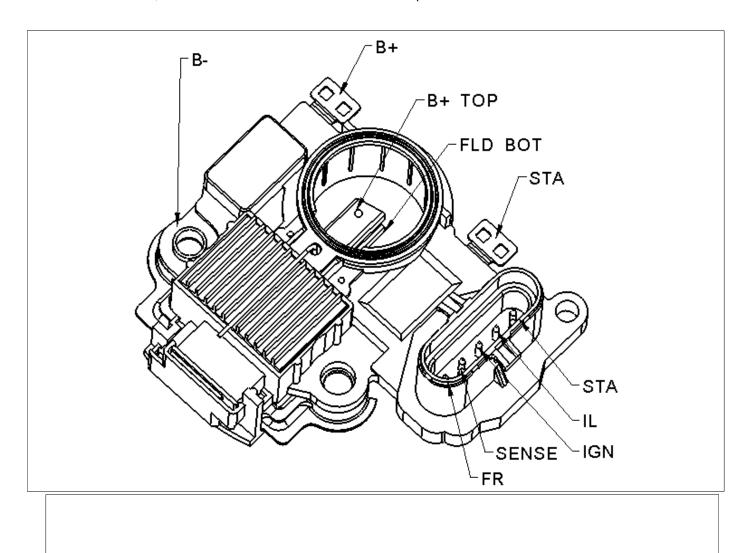
Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

for

Disconnect the Sense, the set point will be 28.5V +/-0.2V.

Reconnect Sense, disconnect the Stator terminal and the Lamp should turn ON.



Page 626 Product Group IM-83 Revision: Date: 1/6/2021

		for BOSCH		type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6011	В	12	14.6				

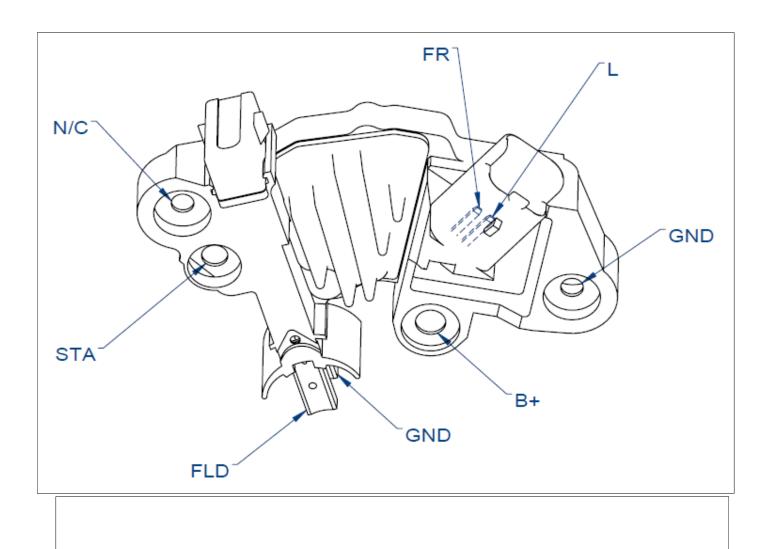
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



Page 627 Product Group IB-80 Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M521	В	12	14.45				

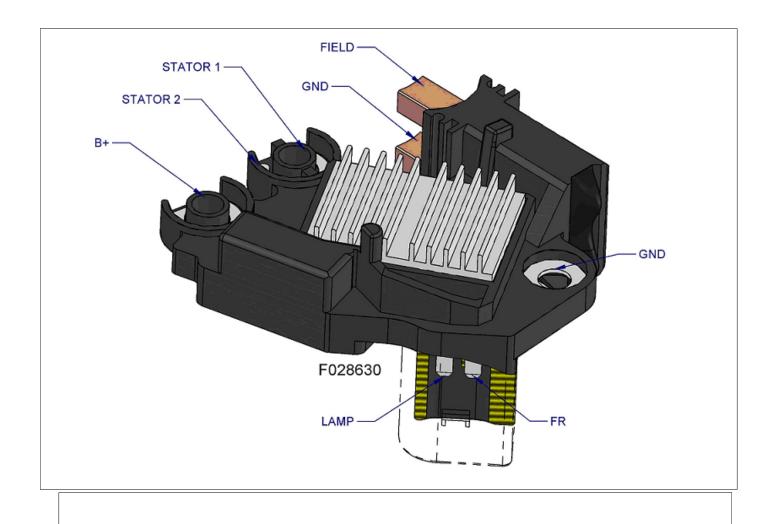
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

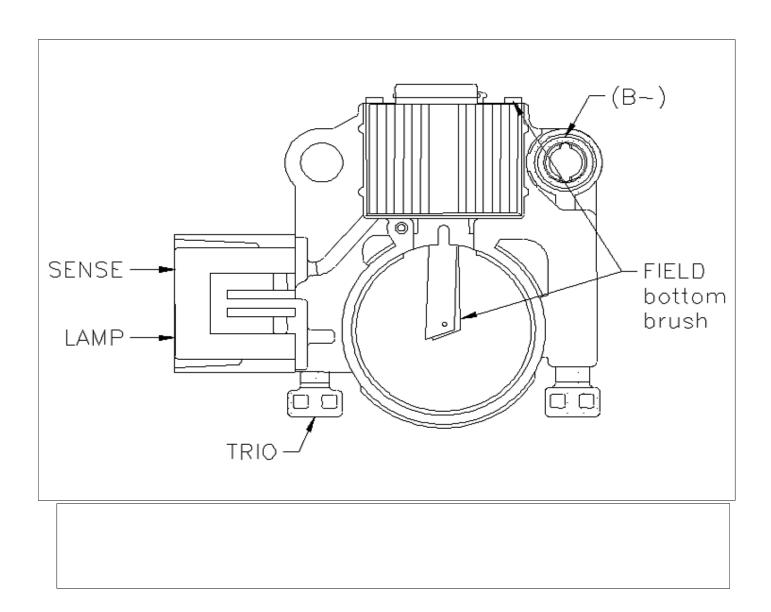


Page 628 Product Group M-21 Revision: Date: 1/6/2021

		for	MITSUBISHI	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IM847	Α	12	14.4						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Sense, the set point will be 15.5V +/-0.3V.



Page 629 Product Group IM-85 Revision: Date : <u>1/6/2021</u>

		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB276	Α	12	14.5				

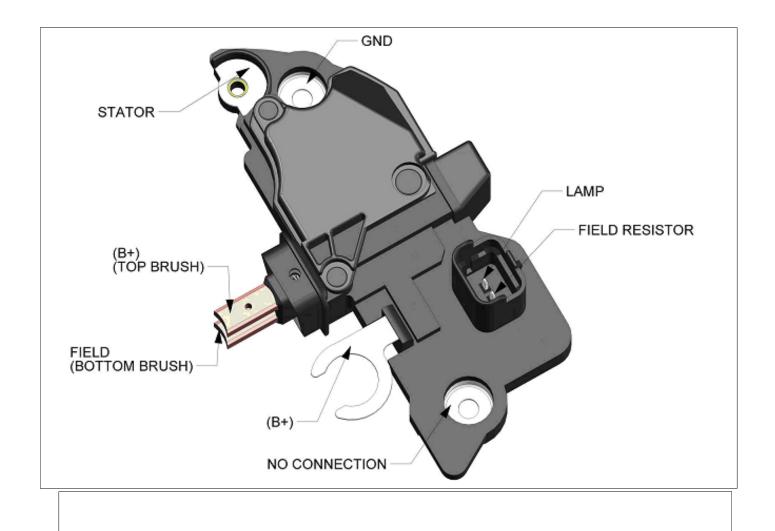
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



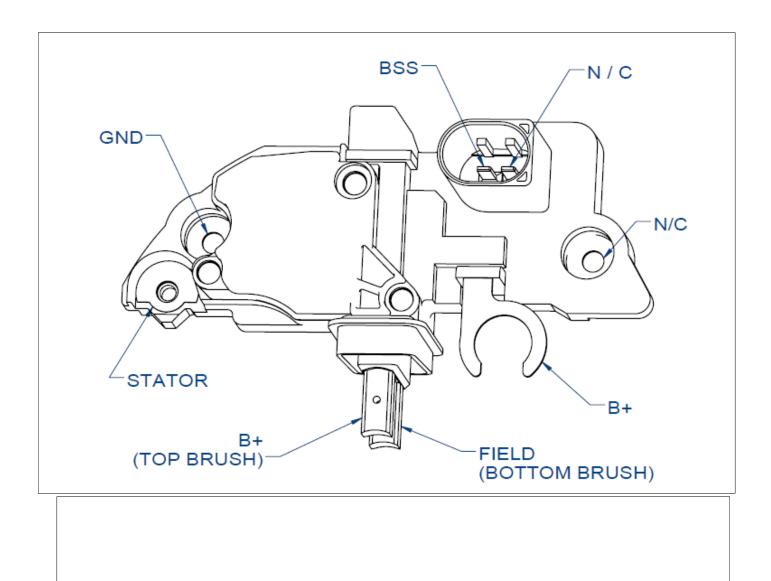
Page 630 Product Group IB-81 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB678	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



Page 631 Product Group IB-82 Revision: Date : <u>1/6/2021</u>

		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB510	Α	12	14.3				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator

as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

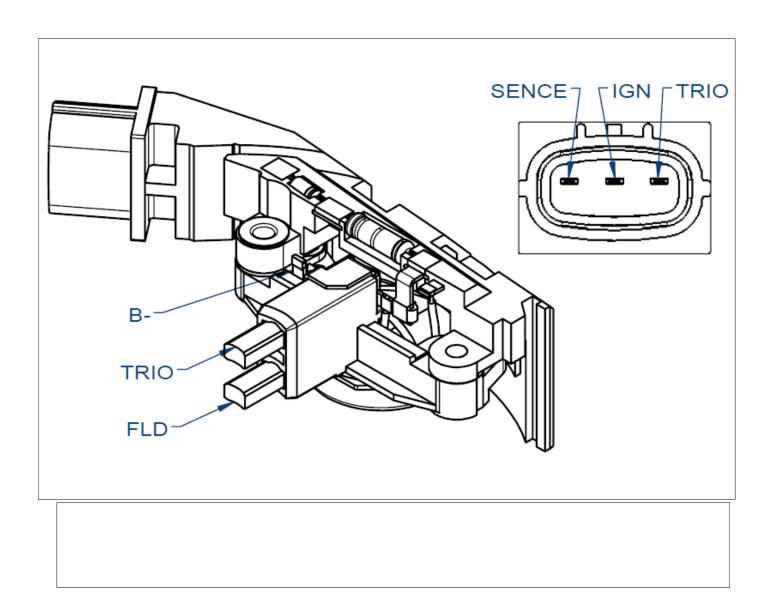
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point

Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect TRIO to B+.

Disconnect the Sense, the set point will be 14.5V +/-0.3V.



Page 632 Product Group IB-83 Revision: Date : <u>1/6/2021</u>

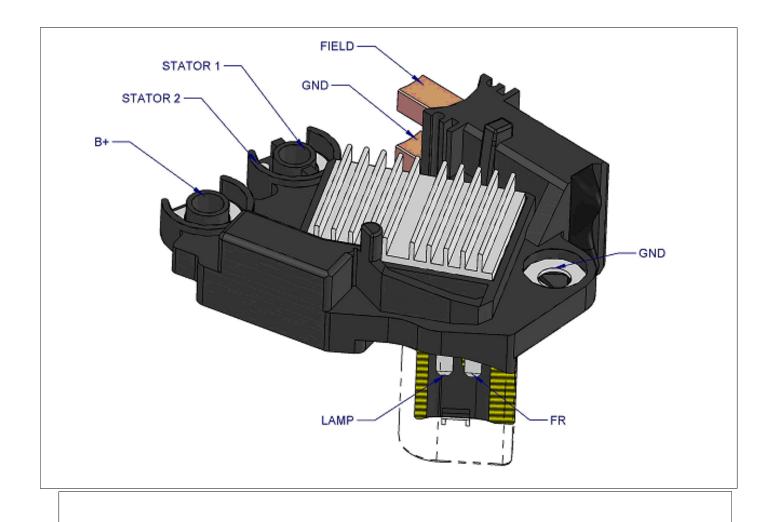
		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M547	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.



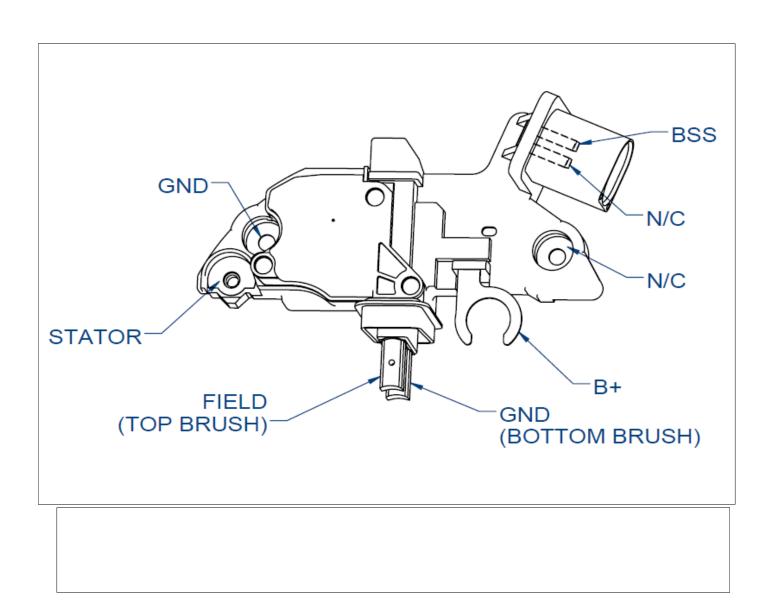
Page 633 Product Group M-34 Revision: Date: 1/6/2021

		for	возсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB262	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.

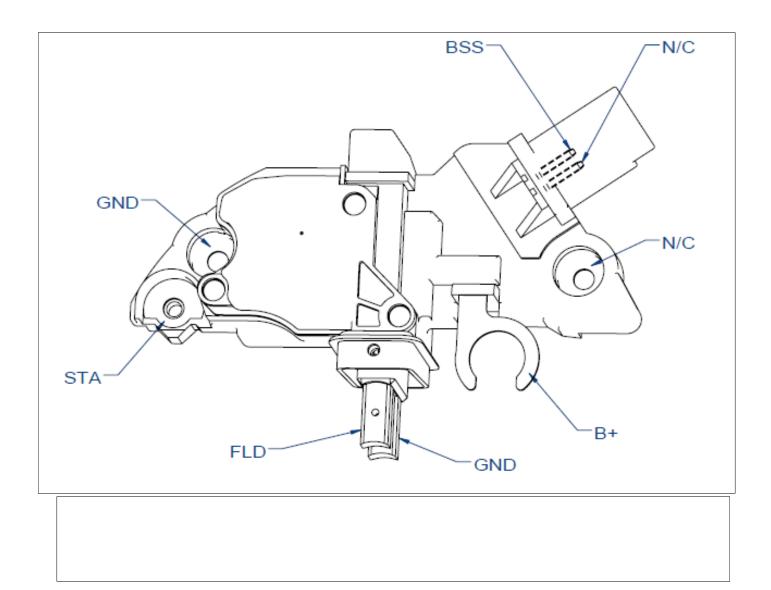


Page 634 Product Group IB-84 Revision: Date: 1/6/2021

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6866	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



Page 635 Product Group IB-85 Revision: Date: <u>1/6/2021</u>

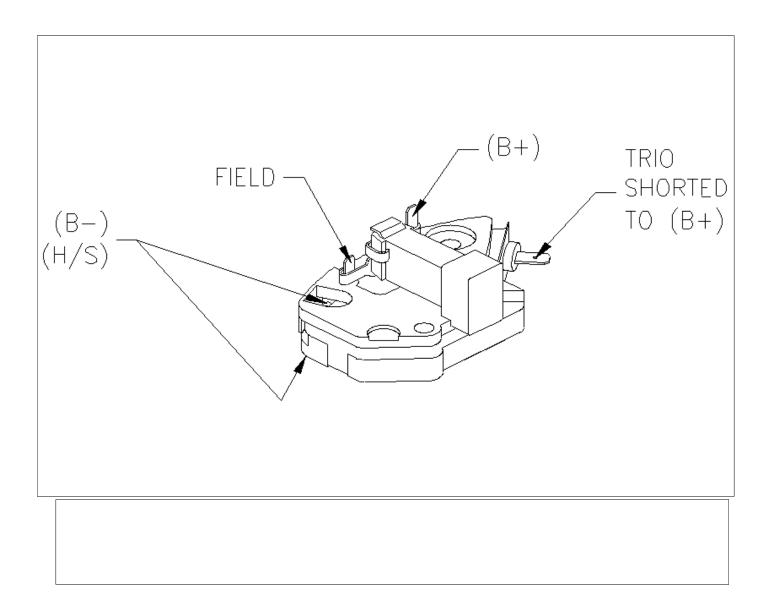
LUCAS

for

				, p			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IL225	Α	24	28.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



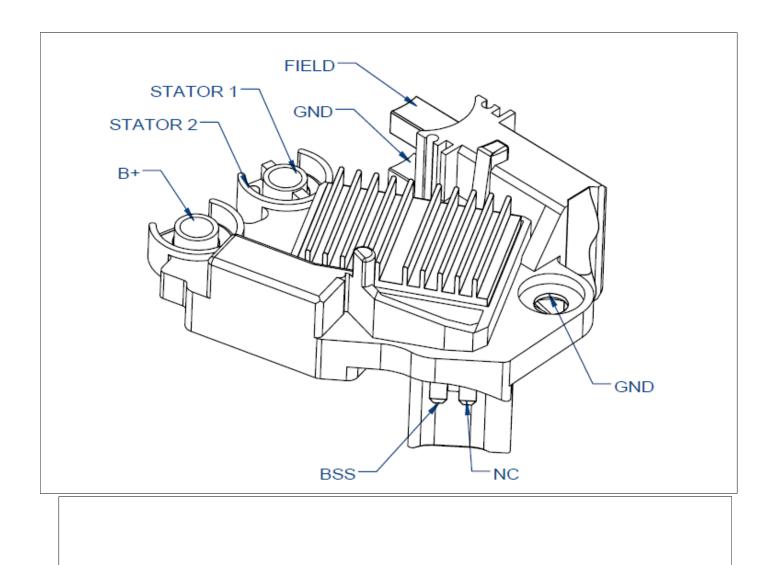
Page 636 Product Group IL-08 Revision: Date : 1/6/2021

		tor	VALEO	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M545	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.

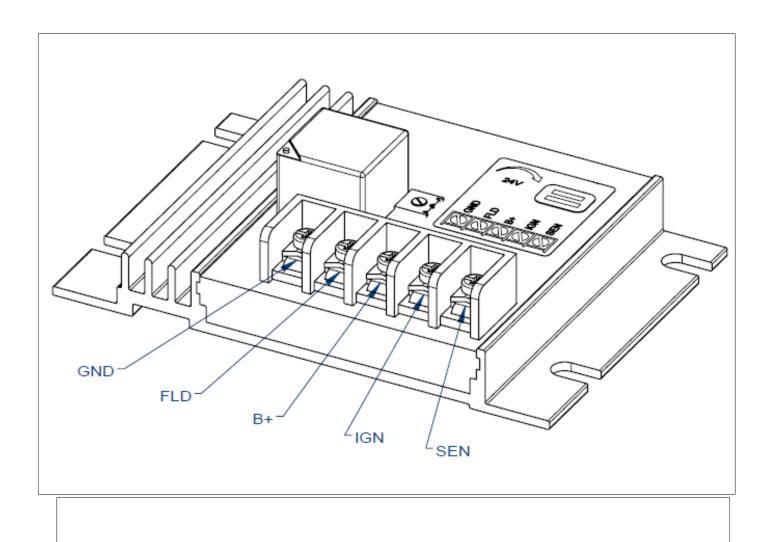


Page 637 Product Group M-32 Revision: Date : <u>1/6/2021</u>

		for	DELCO	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D805	В	24	28.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Sense, the set point will be 28.3V + /-0.3V. Disconnect the IGN, the regulator should stop works.



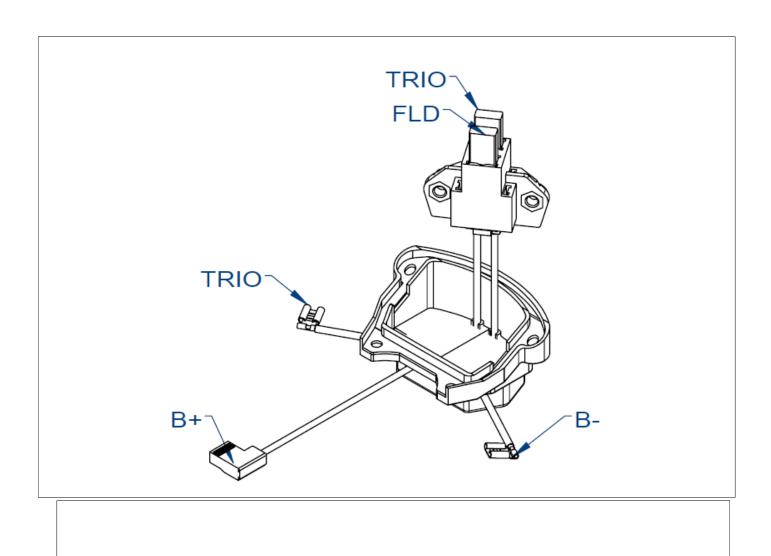
Page 638 Product Group D-57 Revision: Date: <u>1/6/2021</u>

PARIS RHONE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP135BNV	Α	12	14.3				
IP135BN	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



Page 639 Product Group IP-16 Revision: Date : <u>1/6/2021</u>

type regulators

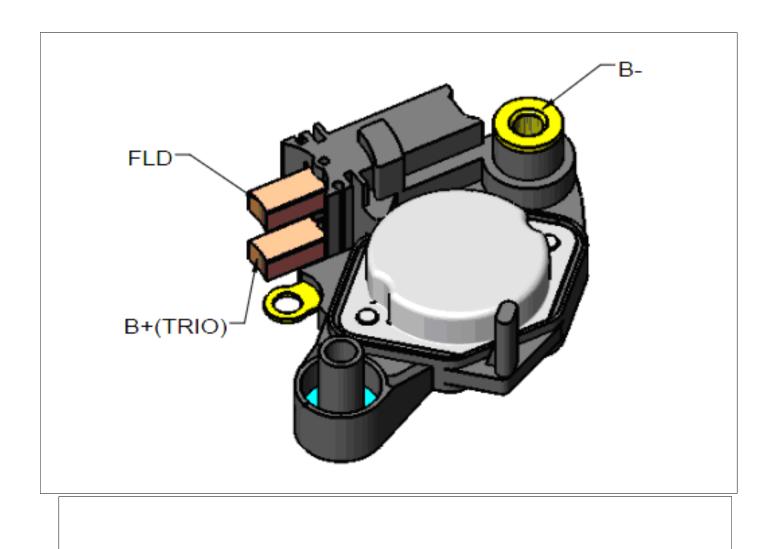
VALEO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M511V-G64	A	12	14.15				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



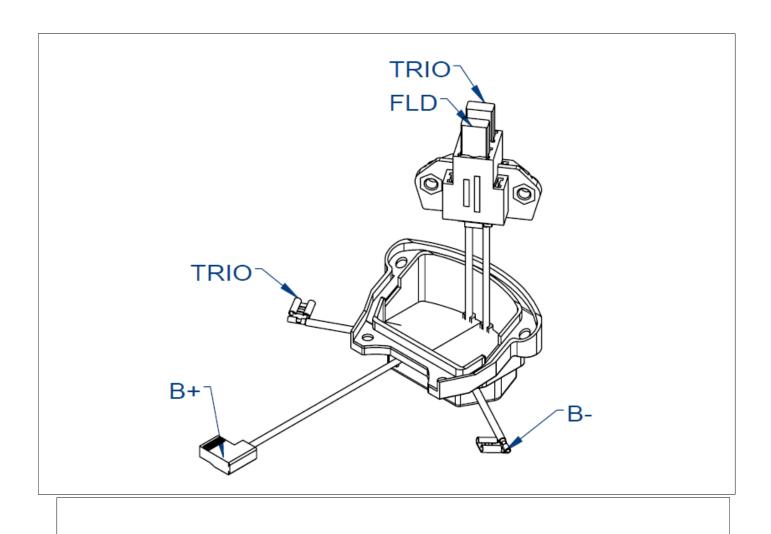
Page 640 Product Group M-19 Revision: Date: <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for PARIS RHONE type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP729BNV	Α	24	28.5				
IP729BN	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.



Page 641 Product Group IP-18 Revision: Date : <u>1/6/2021</u>

type regulators

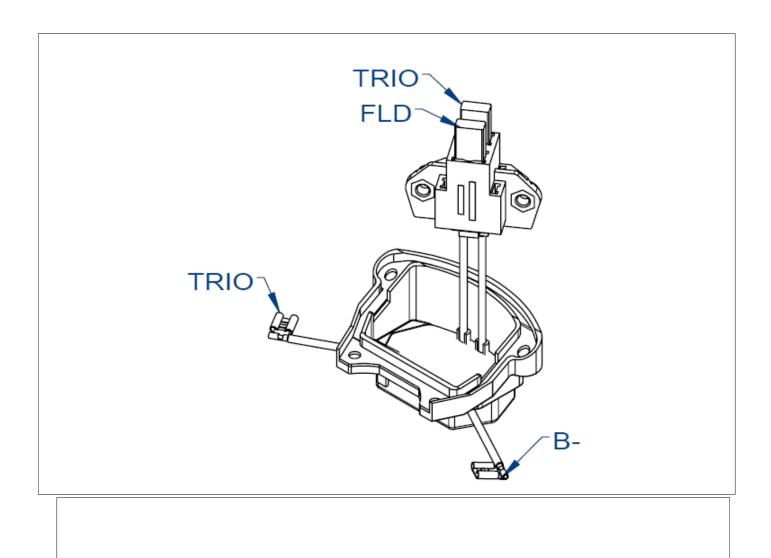
PARIS RHONE

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP129BNV	Α	24	27.5				
IP129BN	Α	24	27.5				
IP129BN-285V	Α	24	28.5				
IP129BN-285	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.

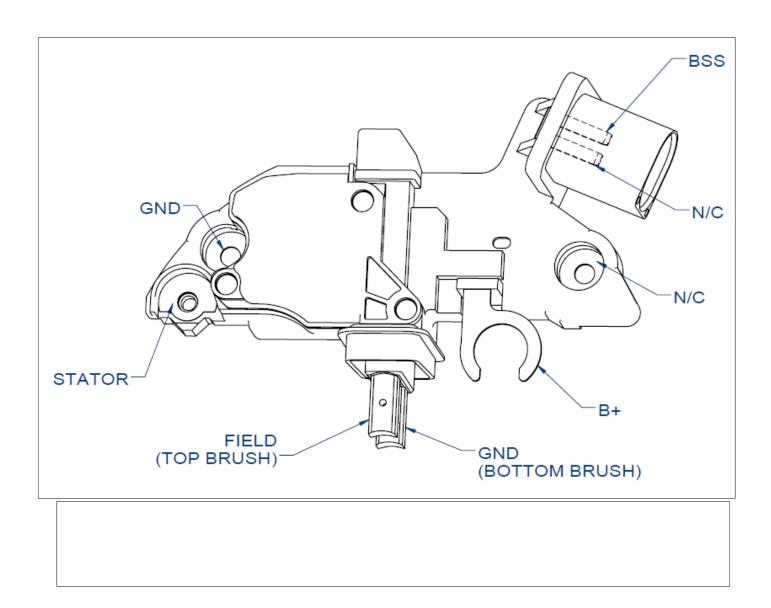


Page 642 Product Group IP-15 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5881	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



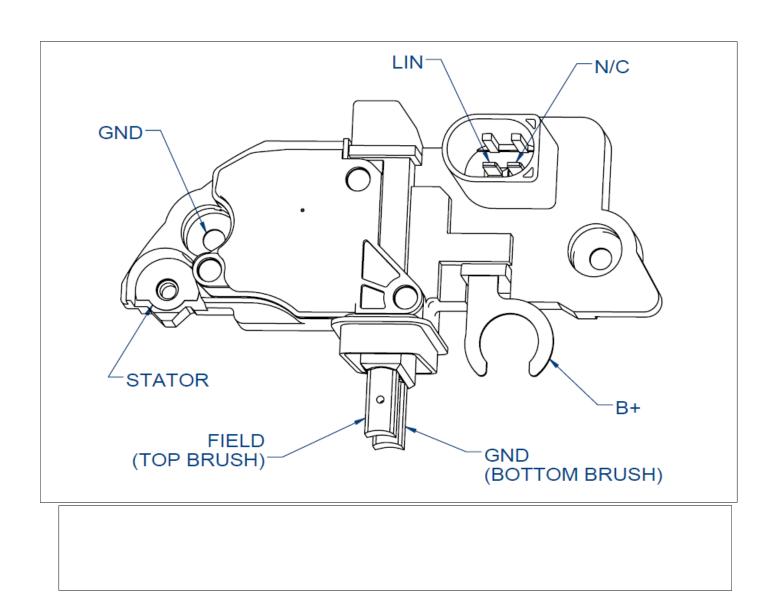
Page 643 Product Group IB-86 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6150	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.

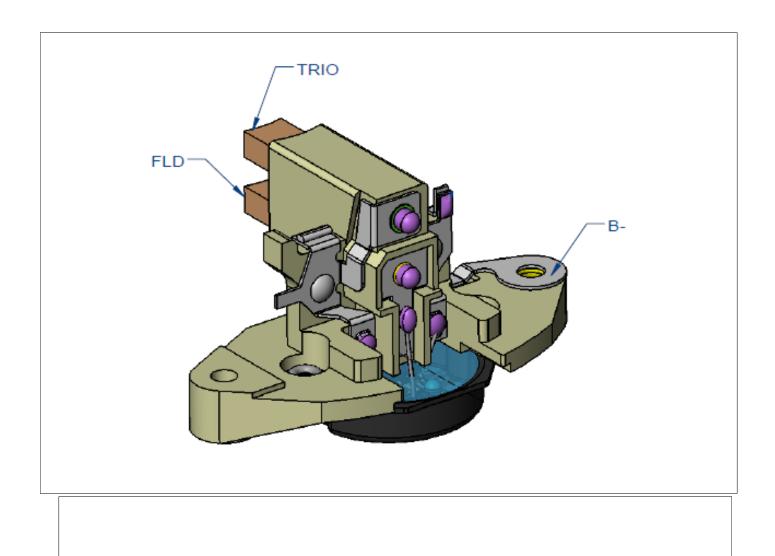


Page 644 Product Group IB-87 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB363T	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.

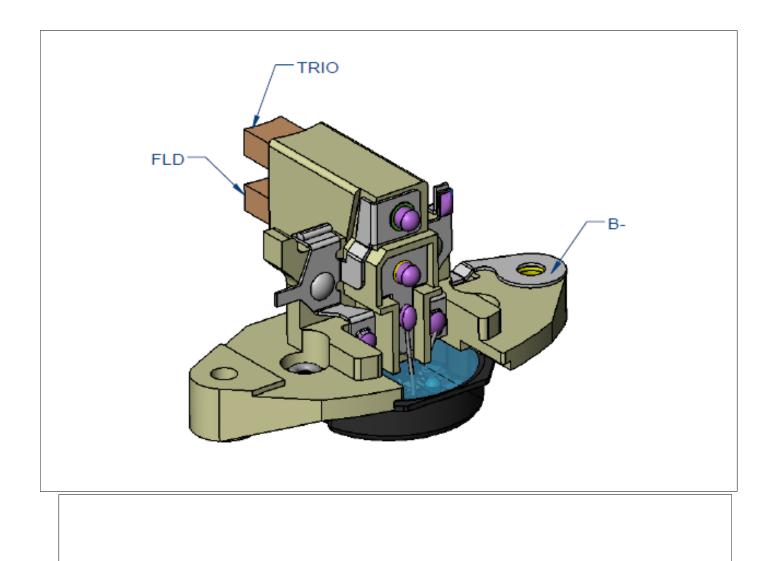


Page 645 Product Group IB-88 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB351T	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.

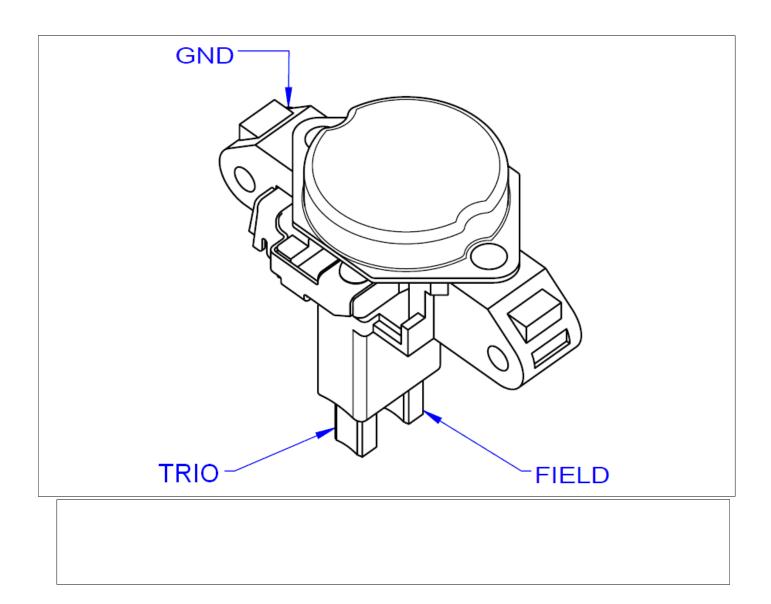


Page 646 Product Group IB-89 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB387T	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect TRIO to B+.

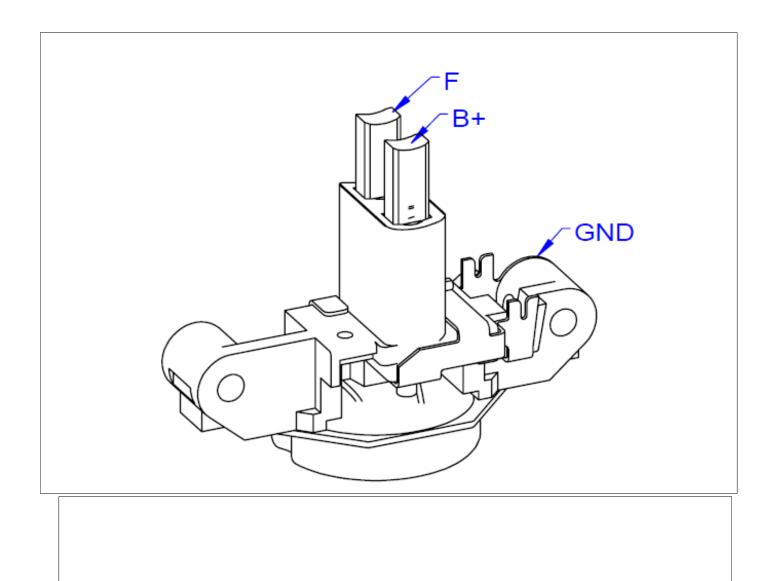


Page 647 Product Group IB-90 Revision: Date : 1/6/2021

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB385T	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

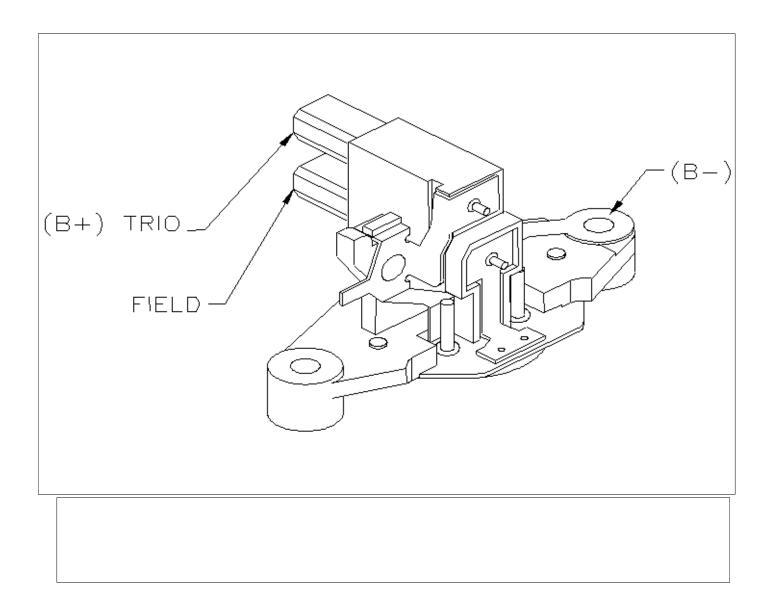
Connect TRIO to B+.



Page 648 Product Group IB-91 Revision: Date : <u>1/6/2021</u>

		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB350T	Α	12	14.2				
IB353T	Α	12	14.5				
IB355T	Α	12	14.5				

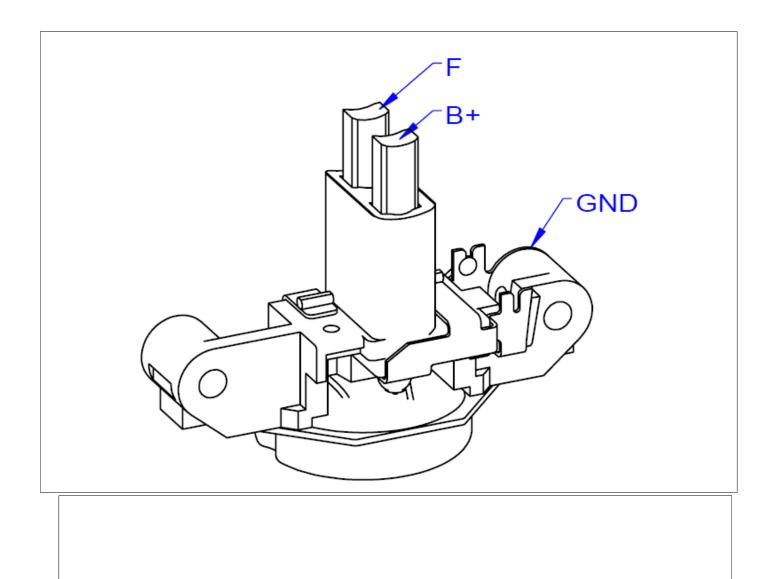
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 649 Product Group IB-106 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB388T	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 650 Product Group IB-92 Revision: Date : <u>1/6/2021</u>

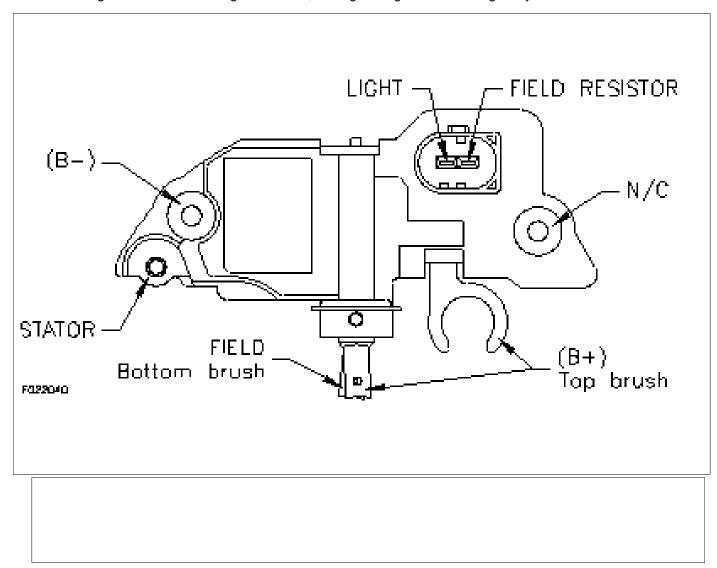
		tor	воѕсн	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5225	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

- Push the Choke switch and the "Choke Drive" will turn on.
- Remove white test lead from terminal marked "Stator" the Field light and Lamp will come on and Voltage will show 12 volts.
- Remove green test lead from "light" terminal, field light will go out and voltage stays at 12 volts.



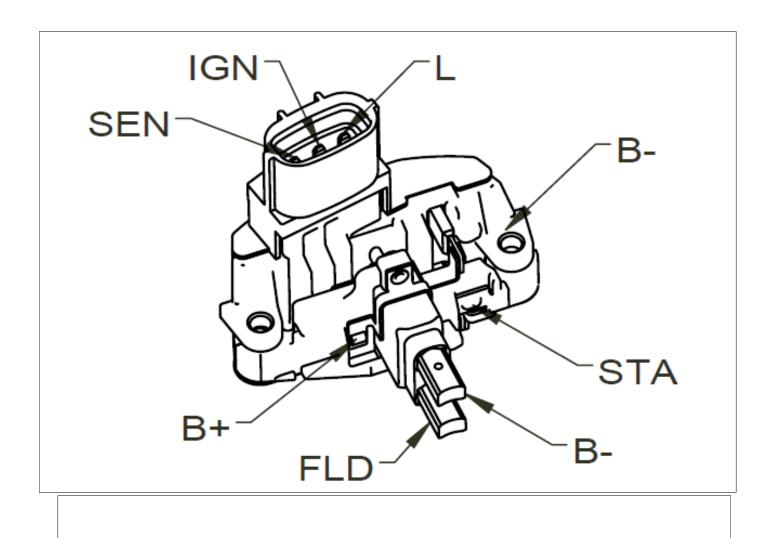
Page 651 Product Group IB-93 Revision: Date: 1/6/2021

		for	Bosch	type regulate	ors			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IB543	В	24	28.3					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON. Reconnect the Stator terminal, disconnect the Sense, the Lamp should turn ON.

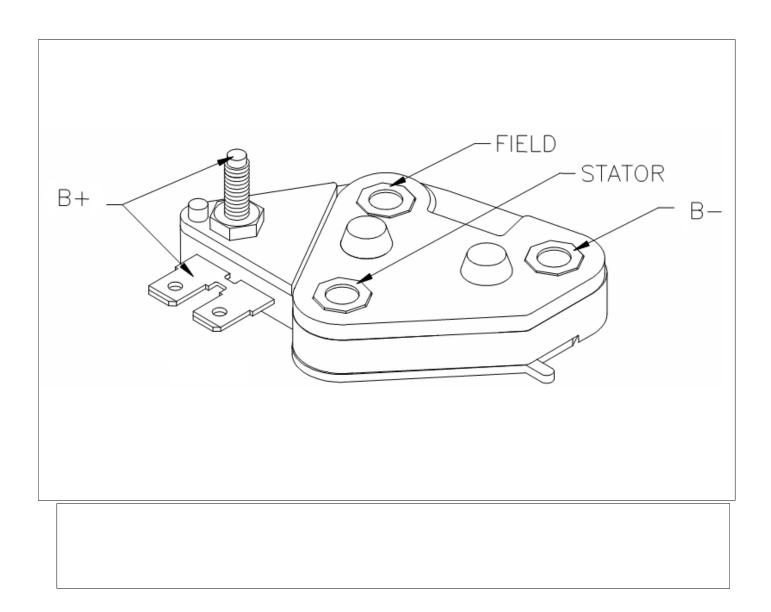


Page 652 Product Group IB-94 Revision: Date : <u>1/6/2021</u>

		for	DELCO	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D10ACBD	В	12	14.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal, the regulator should stop works.

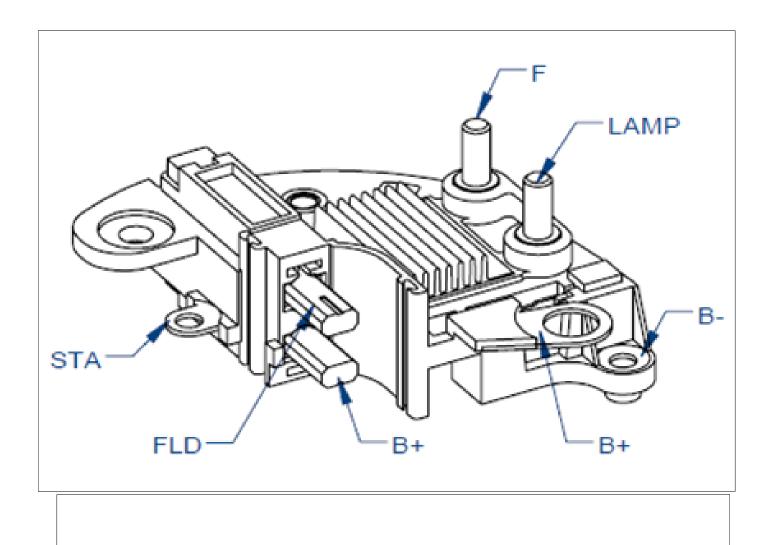


Page 653 Product Group D-58 Revision: Date: <u>1/6/2021</u>

for MAGNETI MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX491	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

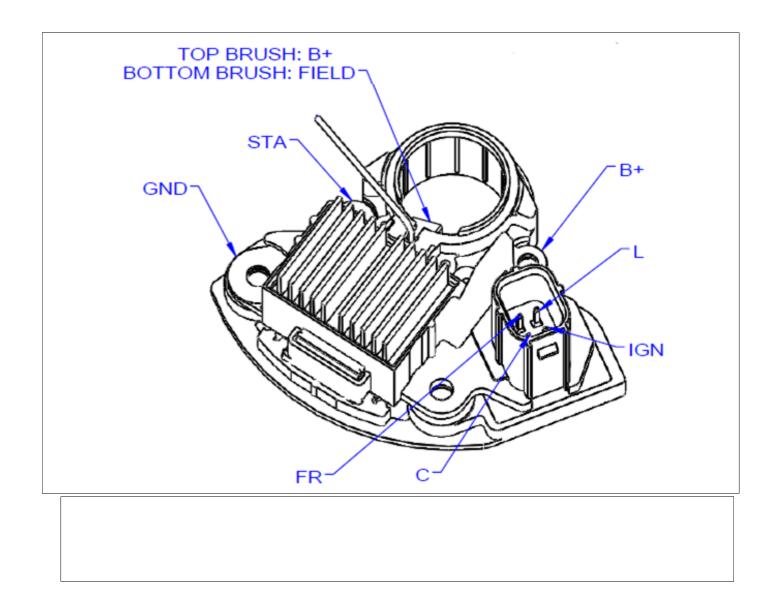


Page 654 Product Group IX-13 Revision: Date: <u>1/6/2021</u>

		for	MITSUBISHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM569	Α	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect terminal COMPUTER with B-, Setpoint drops to 12.8V.



Page 655 Product Group IM-80 Revision: Date : <u>1/6/2021</u>

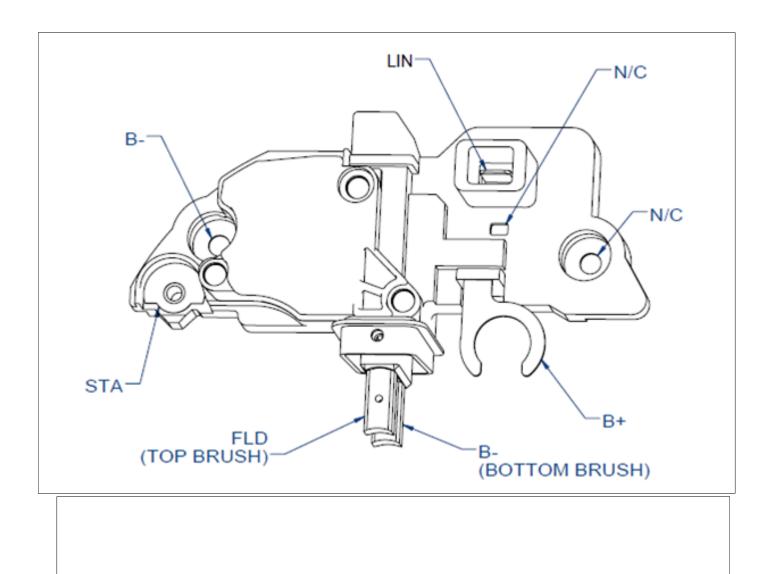
		for	воѕсн	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5379	В	12	13.9*				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.

* The 13.9V Set Point indicate above is the 'default VSet' (no LIN input).

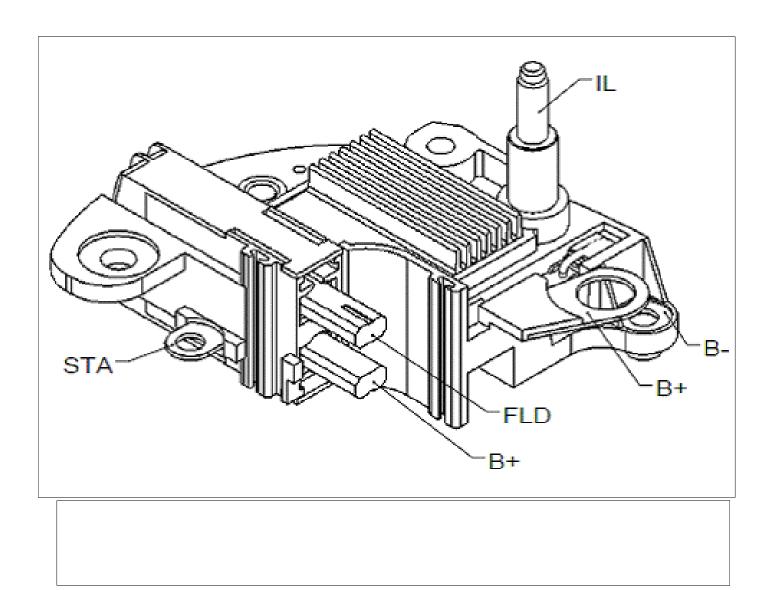


Page 656 Product Group IB-95 Revision: Date : <u>1/6/2021</u>

for MAGNETI MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX125	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 657 Product Group IX-10 Revision: Date: <u>1/6/2021</u>

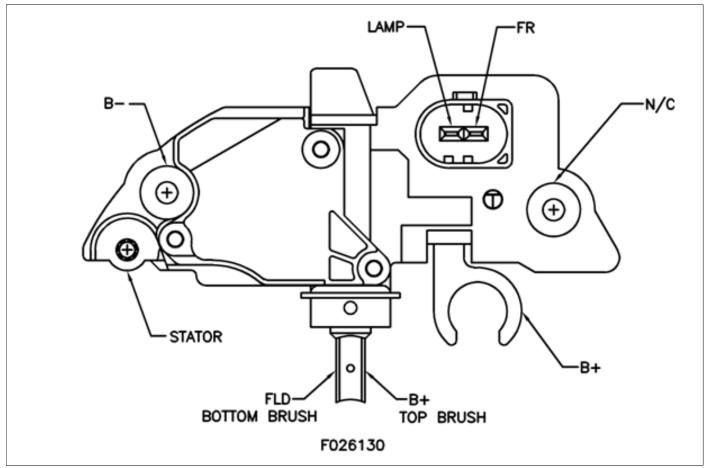
		for	BOSCH	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB225	Α	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

- Push the Choke switch and the "Choke Drive" will turn on.
- Remove white test lead from terminal marked "Stator" the Field light and Lamp will come on and Voltage will show 12 volts.
- Remove green test lead from "light" terminal , field light will go out and voltage stays at 12 volts.



• L-FR Terminals • With LRC and Soft Start • Active Lamp Circuit - with Output

NOTE: VRC101-34 adapter shown for enhance stator signal, not all late model regulators need enhance signal

Page 658 Product Group IB-96 Revision: Date: 1/6/2021

NIPPONDENSO type regulators PART NO VOLT SET DOINT SET DOINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN343	Α	12	15.3				

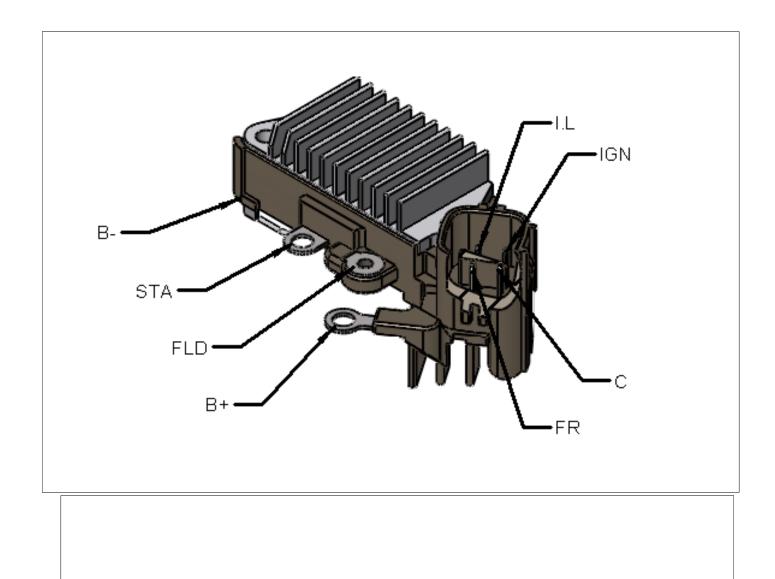
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR and C terminal.

Disconnect the Stator terminal and the Lamp should turn ON.

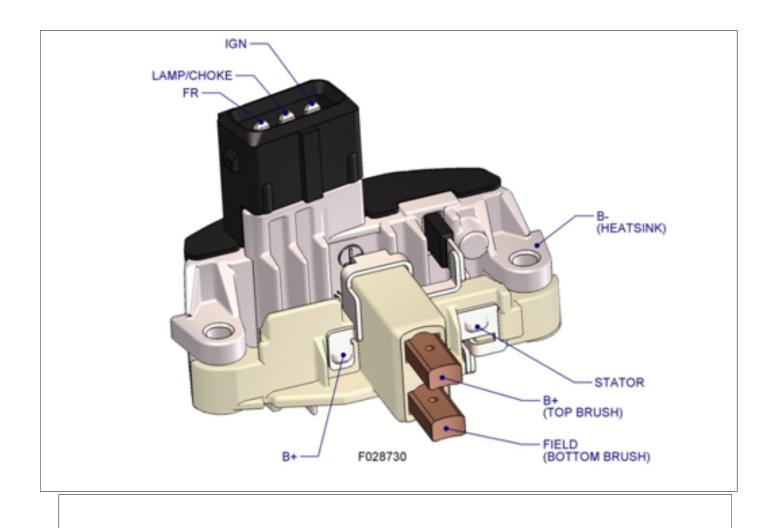
Reconnect Stator, connect C with GND, the set point will be 13.6V +/-0.2V.



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		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB545	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indicator should be on.
 - 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator should be on.



Page 660 Product Group IB-97 Revision: Date : <u>1/6/2021</u>

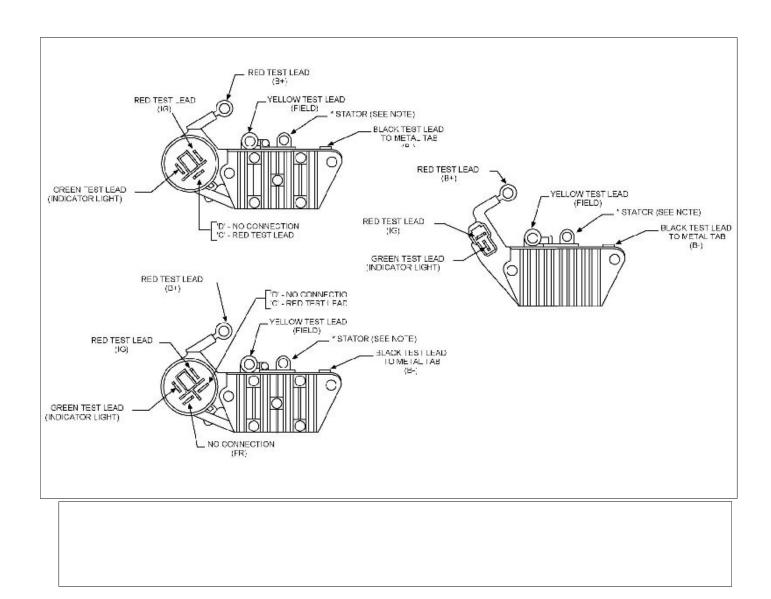
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
T7254	A	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V.



Page 661 Product Group IN-100 Revision: Date : <u>1/6/2021</u>

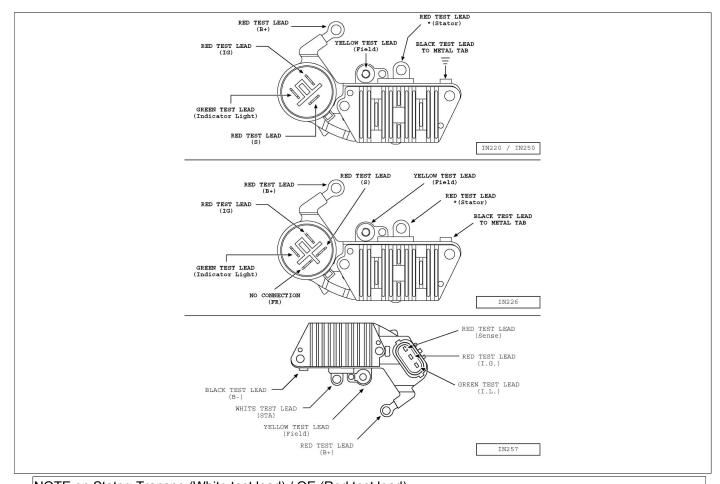
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
T7439	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove test lead from the terminal marked "*". The indicator light will turn on and the meter will indicate approximately 12V and the field lamp will remain fully on (this is the soft start mode of the regulator). To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on between 16.0V and 17.1V. Push the choke drive and the "Choke Drive Indicator Lamp" will turn on, if present.

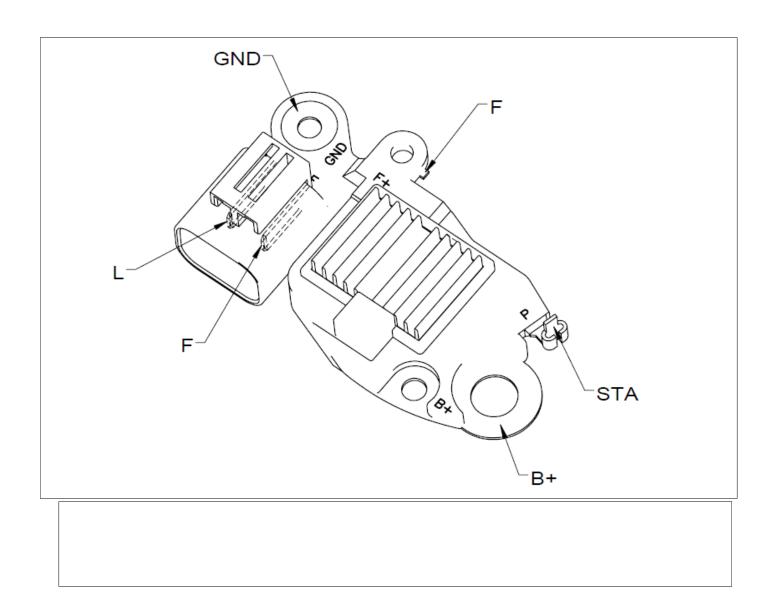


NOTE on Stator: Transpo (White test lead) / OE (Red test lead)

Page 662 Product Group IN-101 Revision: Date: 1/6/2021

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D3588	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indicator should be on.
 - 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator should be on.

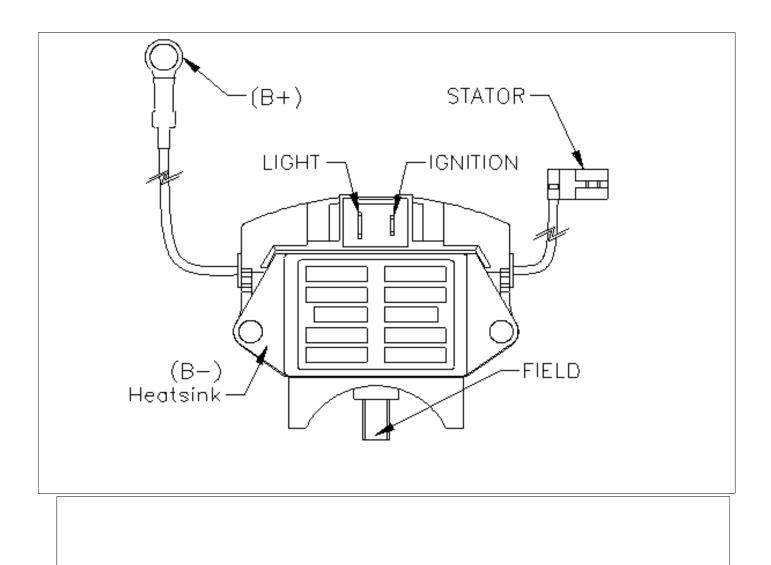


Page 663 Product Group D-59 Revision: Date : <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for PARIS RHONE type regulators

		·					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IP1652T	A	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

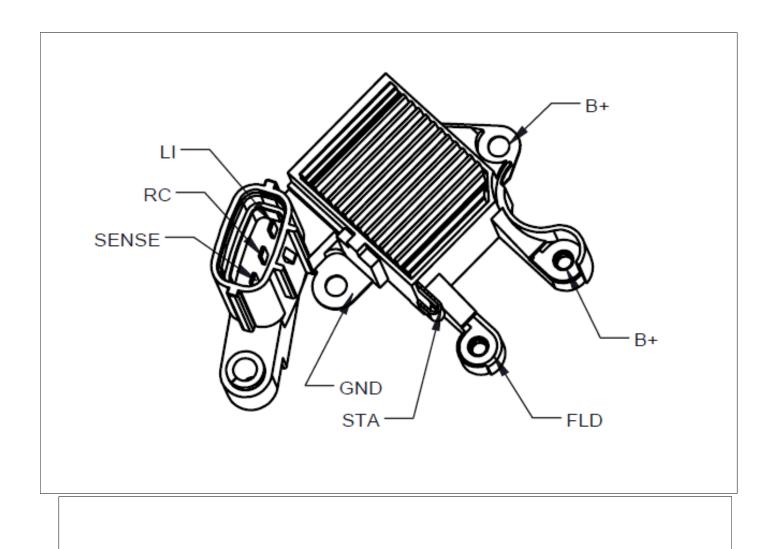


Page 664 Product Group IP-13 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

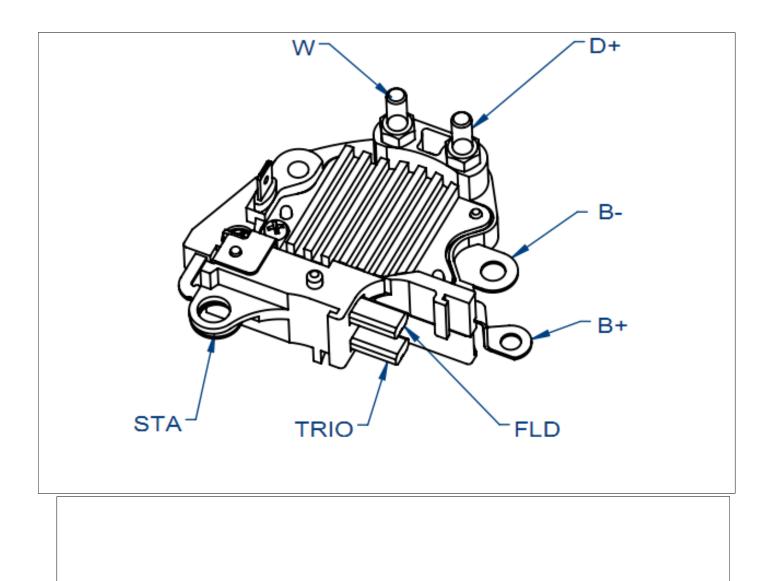


Page 665 Product Group IN-92 Revision: Date : <u>1/6/2021</u>

for MAGNETI MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX126	Α	24	28.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 666 Product Group IX-11 Revision: Date : <u>1/6/2021</u>

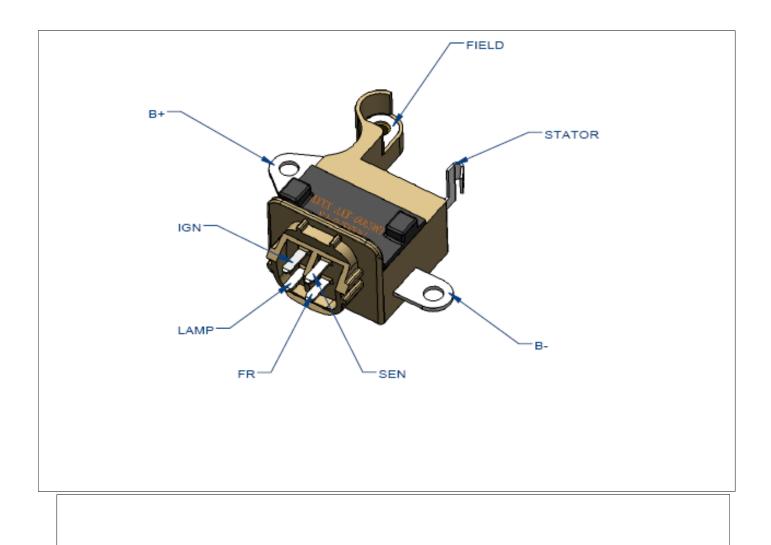
NIPPONDENSO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6300	В	12	14.1				
T7300	В	12	14.1				
IN6323	В	12	14.1				
T7323	В	12	14.1				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

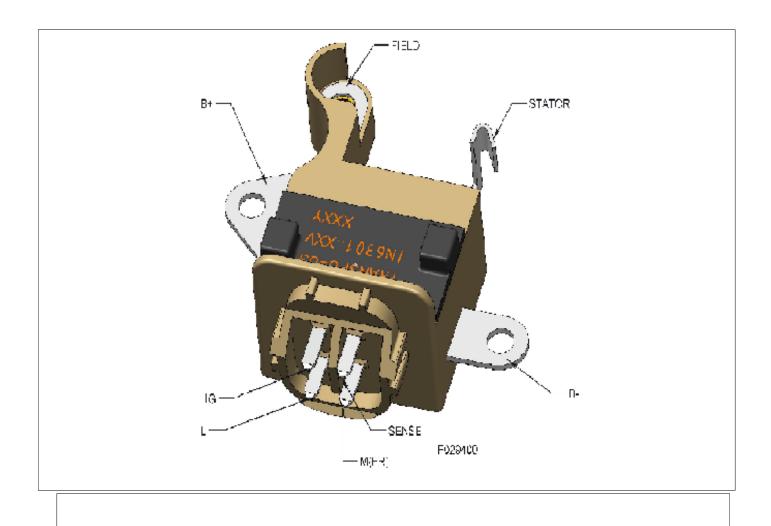


Page 667 Product Group IN-76 Revision: Date: <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6301	В	12	14.1				
T7301	В	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

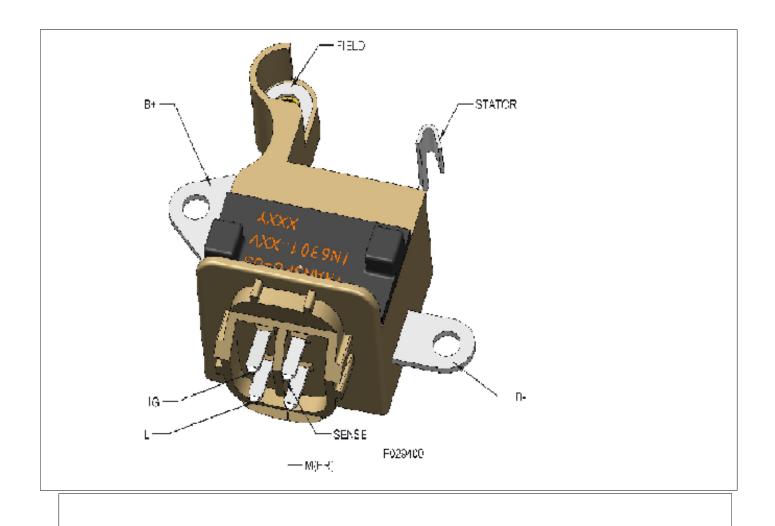


Page 668 Product Group IN-78 Revision: Date : <u>1/6/2021</u>

NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6302	В	12	14.1				
T7302	В	12	14.1				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

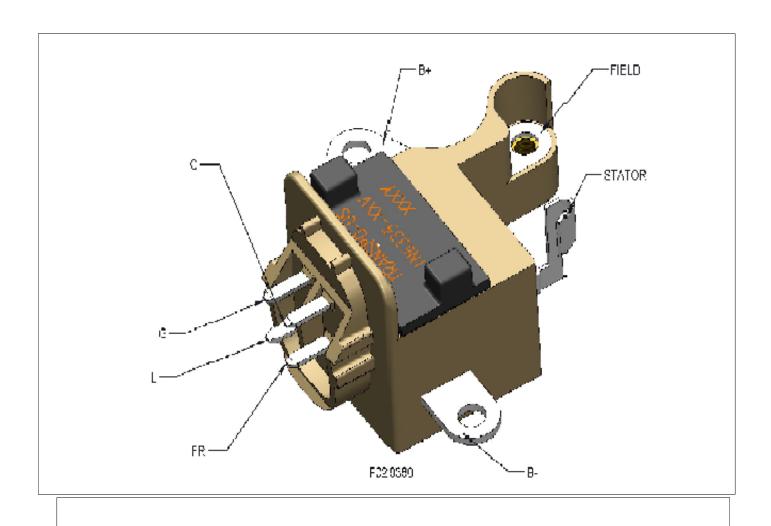


Page 669 Product Group IN-80 Revision: Date : <u>1/6/2021</u>

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

		·					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6335	В	12	14.5				
T7335	В	12	14.5				

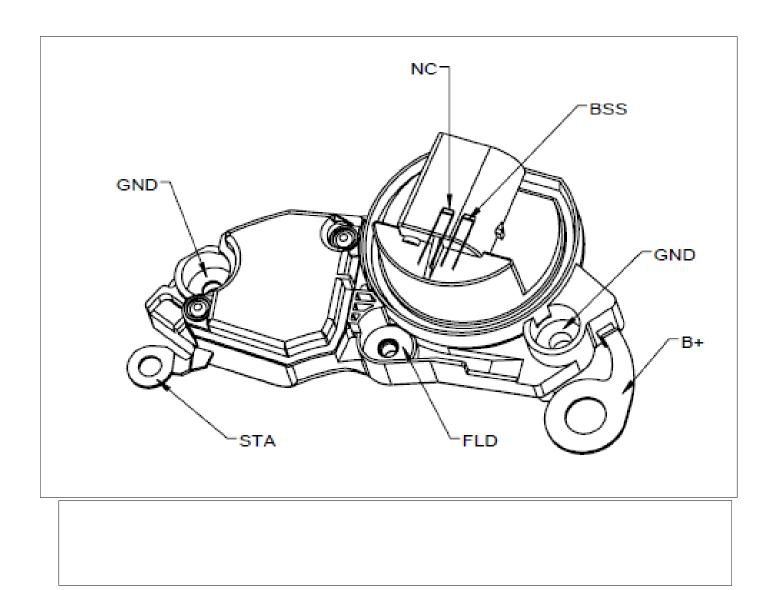
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 670 Product Group IN-90 Revision: Date: <u>1/6/2021</u>

		for	BOSCH	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB203	Α	12	14.2				

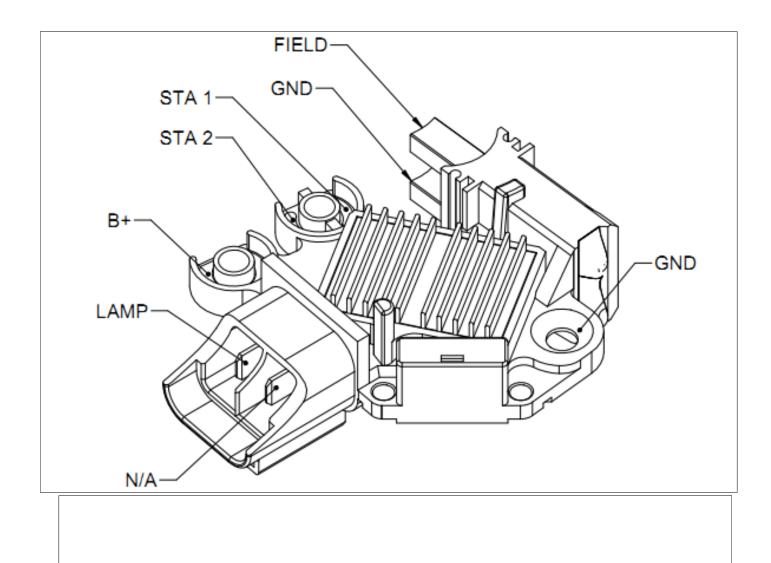
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indicator should be on.
 - 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator should be on.



Page 671 Product Group IB-98 Revision: Date: <u>1/6/2021</u>

		тог	VALEO	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
M580	В	12	14.45						

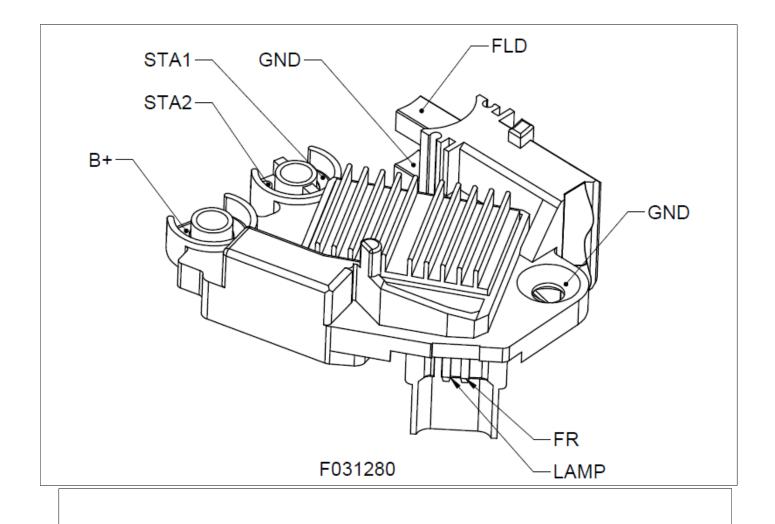
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Stator, the Lamp Indicator should be on.
 - 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator should be on.



Page 672 Product Group M-55 Revision: Date: <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M570	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 673 Product Group M-47 Revision: Date: 1/6/2021

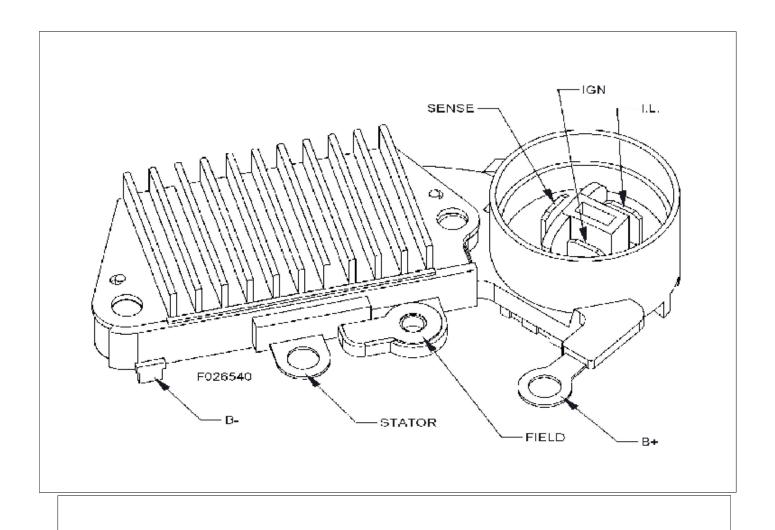
NIPPONDENSO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN220	Α	12	14.5				
IN220HD	Α	12	14.5				
T7220	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

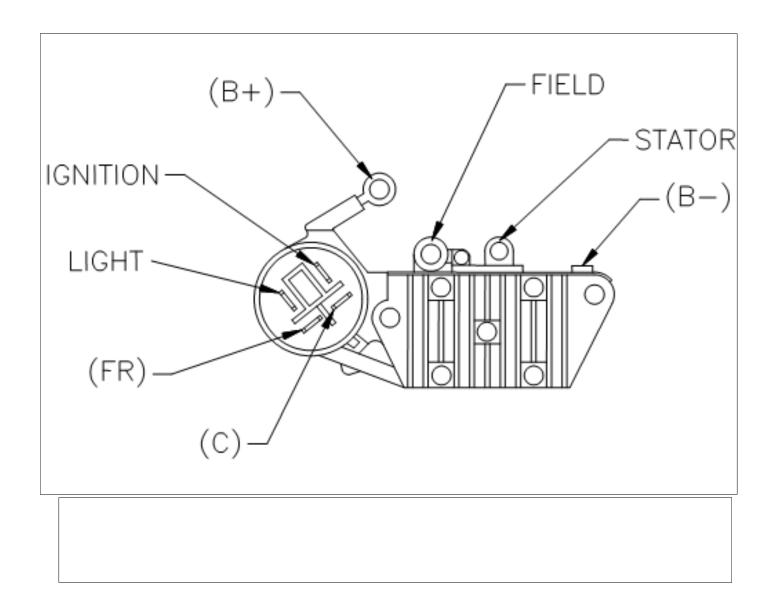


Page 674 Product Group IN-41 Revision: Date : 1/6/2021

TRANSPO TESTER INSTRUCTIONS for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN224	Α	12	14.5				
T7224	Α	12	14.5				

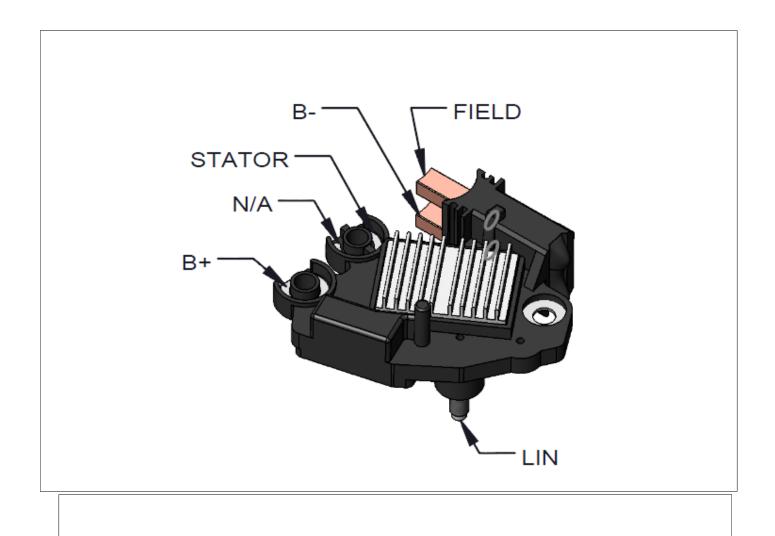
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 675 Product Group IN-42 Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
M565	В	12	14.4					
M584	В	12	14.3					

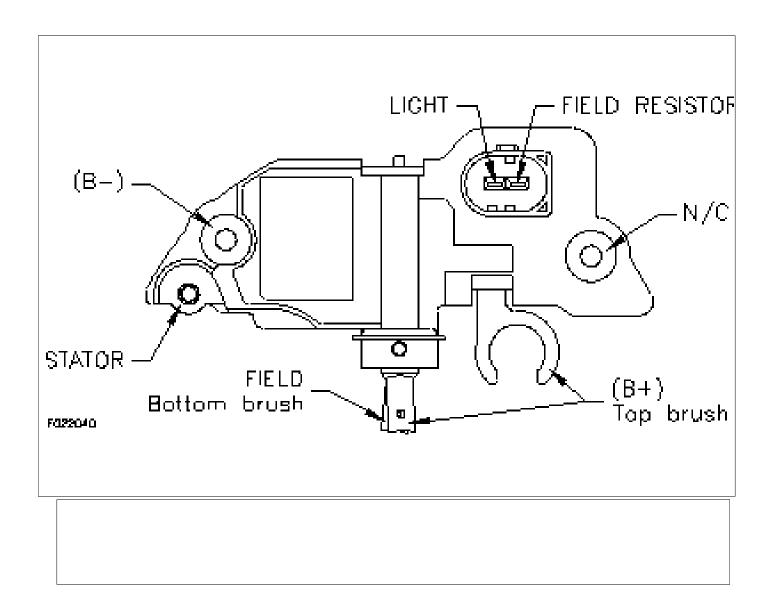
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 676 Product Group IB-99 Revision: Date : <u>1/6/2021</u>

		for	воѕсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5225HD	Α	12	14.5				

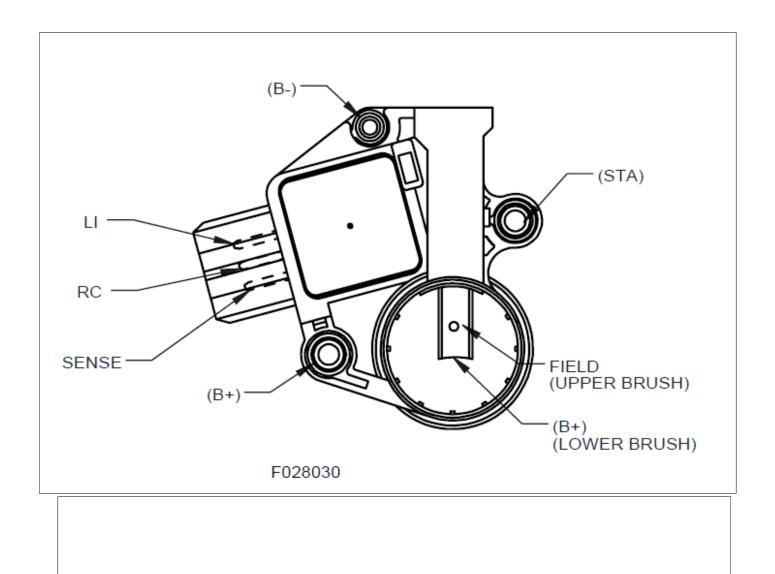
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 677 Product Group IB-100 Revision: Date : <u>1/6/2021</u>

		tor	FORD	type regulat	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F601SE	Α	12	14.03				

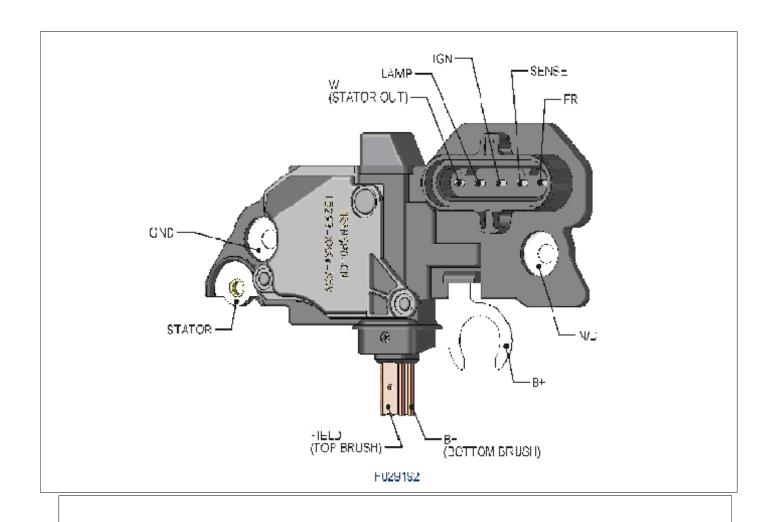
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 678 Product Group F-14 Revision: Date: <u>1/6/2021</u>

		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB120	В	24	28.4				

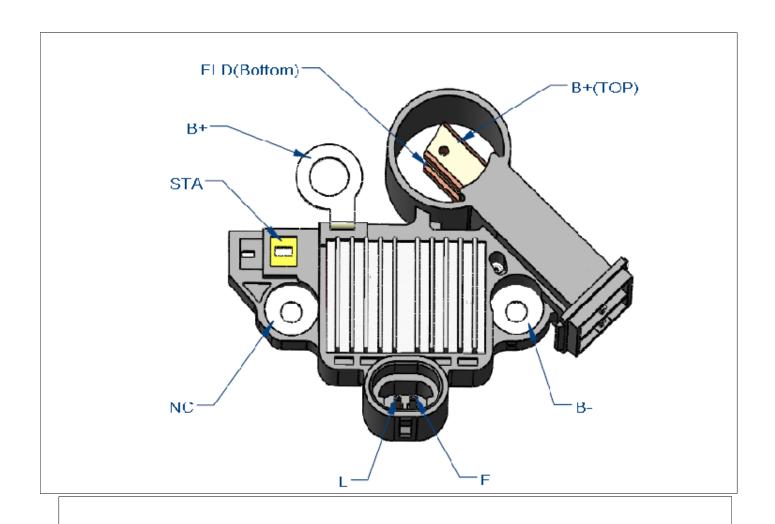
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 679 Product Group IB-101 Revision: Date : <u>1/6/2021</u>

		for	DELCO	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D816	Α	12	14.6				

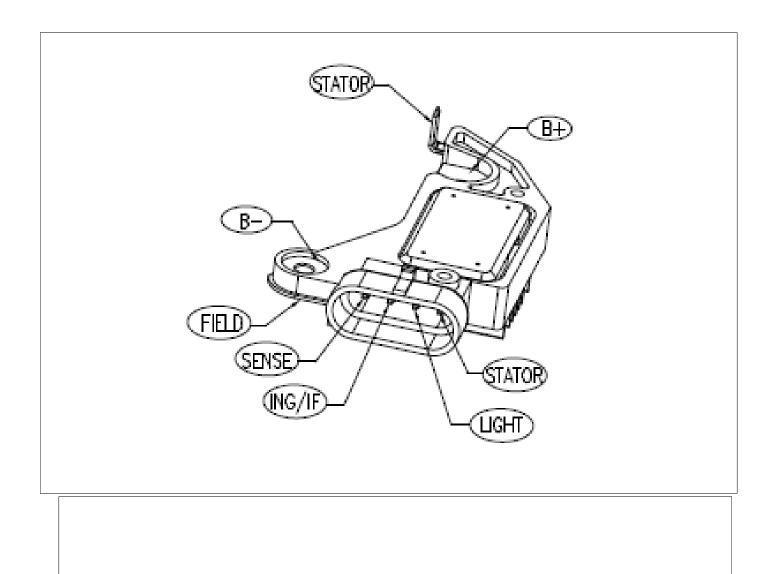
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 680 Product Group D-66 Revision: Date: <u>1/6/2021</u>

		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D702SEL	В	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 681 Product Group D-60 Revision: Date: <u>1/6/2021</u>

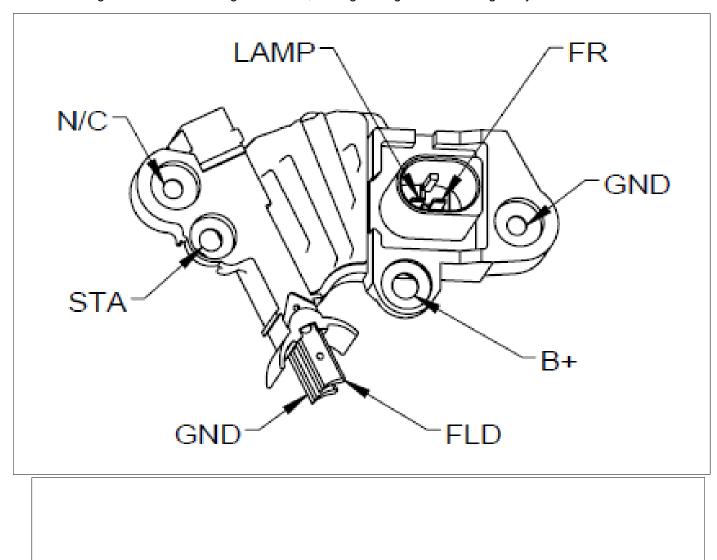
		for	воѕсн	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6137	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

- Push the Choke switch and the "Choke Drive" will turn on.
- Remove white test lead from terminal marked "Stator" the Field light and Lamp will come on and Voltage will show 12 volts.
- Remove green test lead from "light" terminal, field light will go out and voltage stays at 12 volts.



Page 682 Product Group Revision: Date: 1/6/2021

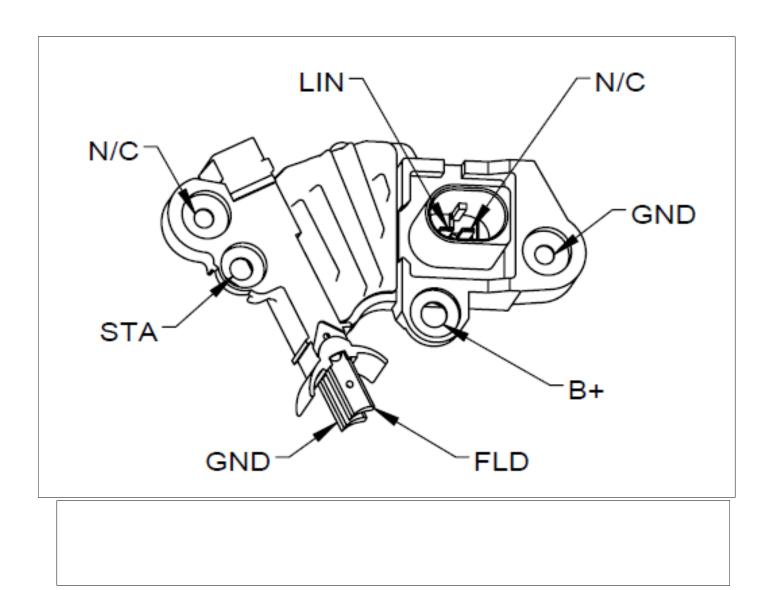
		for	воѕсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6165	В	12	13.9*				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.

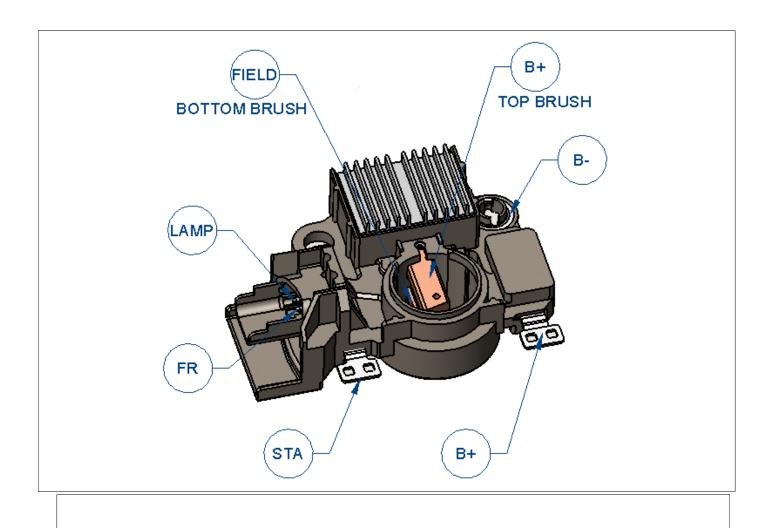
* The 13.9V Set Point indicate above is the 'default VSet' (no LIN input).



Page 683 Product Group Revision: Date: 1/6/2021

		for	MITSUBISHI	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM606	Α	12	14.5				

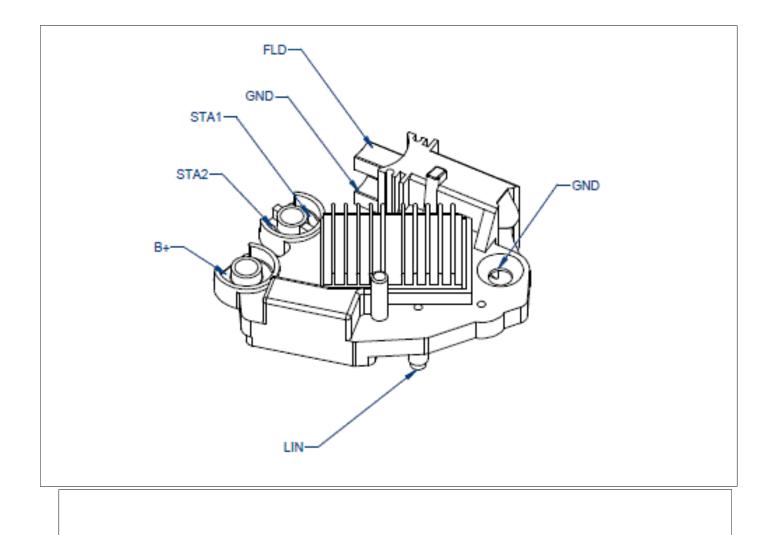
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



Page 684 Product Group Revision: Date : <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M583	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M581	В	12	14.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

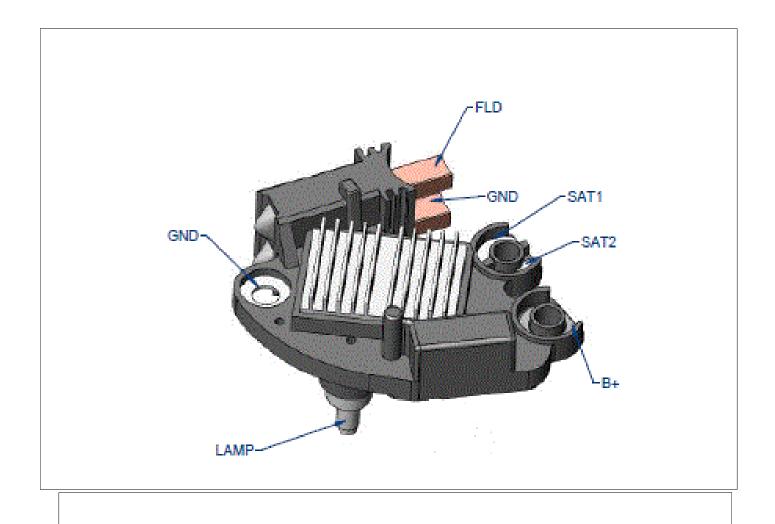
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



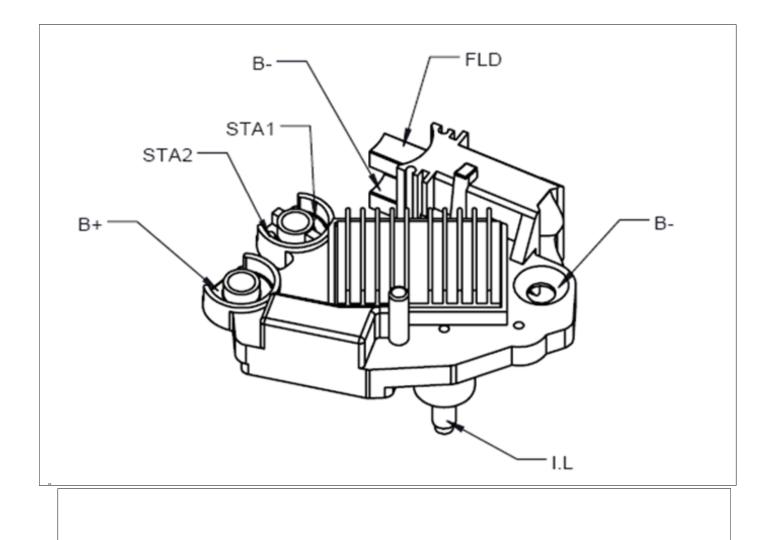
Page 686 Product Group M-54 Revision: Date: <u>1/6/2021</u>

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M555	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on. Disconnect the Stator terminal and the Lamp should turn ON. Disconnect the "light" terminal, voltage will drop to 12 volts.



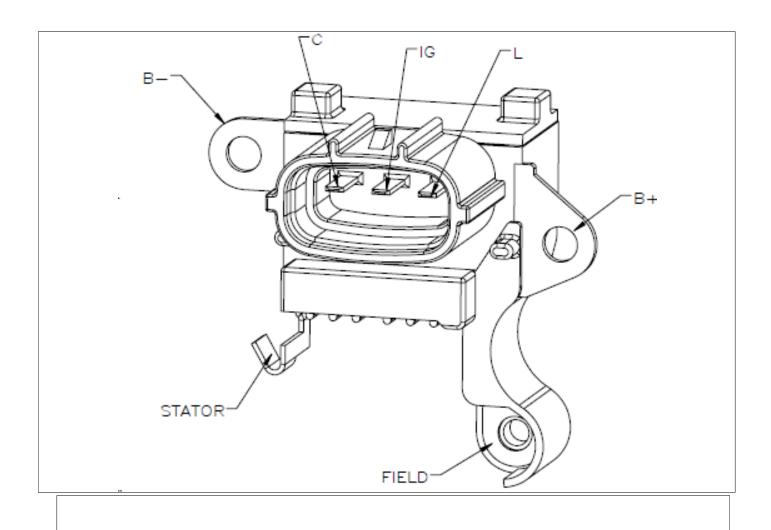
Page 687 Product Group Revision: Date : <u>1/6/2021</u>

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6660	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect terminal "C" to B-, the voltage will drop to 12.8 +/-0.2V.



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type regulators

MITSUBISHI

				,poogu.u.	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM382	Α	24	28.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

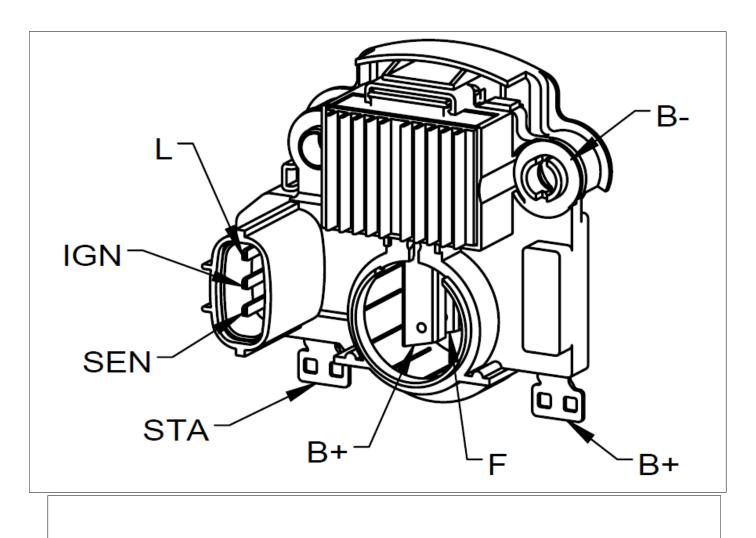
3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

for

Reconnect the Stator terminal, disconnect the Sense, the "Lamp Indicator" will turn on and the set point will be 28.5V + -0.2V.



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		for	MITSUBISHI	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM383	Α	24	28.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

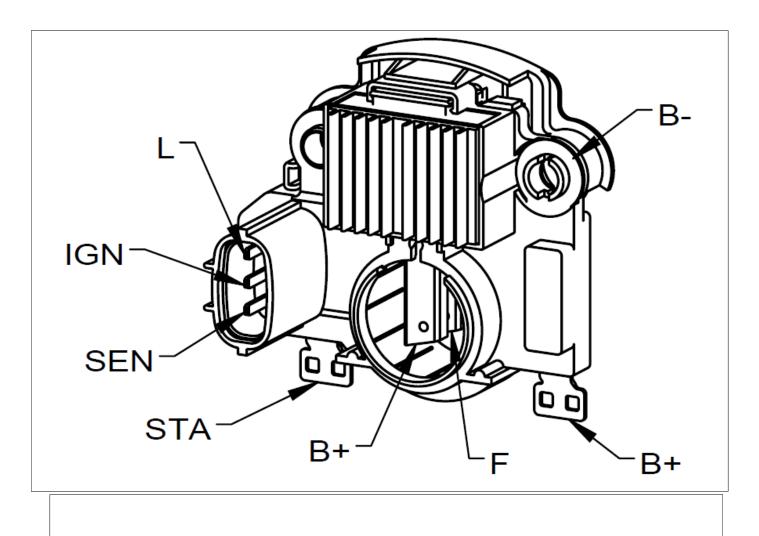
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

Reconnect the Stator terminal, disconnect the Sense, the "Lamp Indicator" will turn on and the set point will be 28.6V + -0.2V.



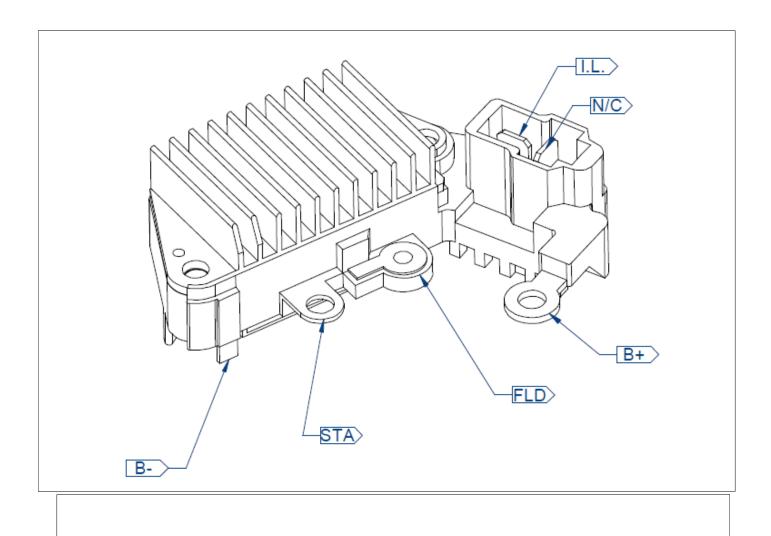
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for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN254-LM	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on.



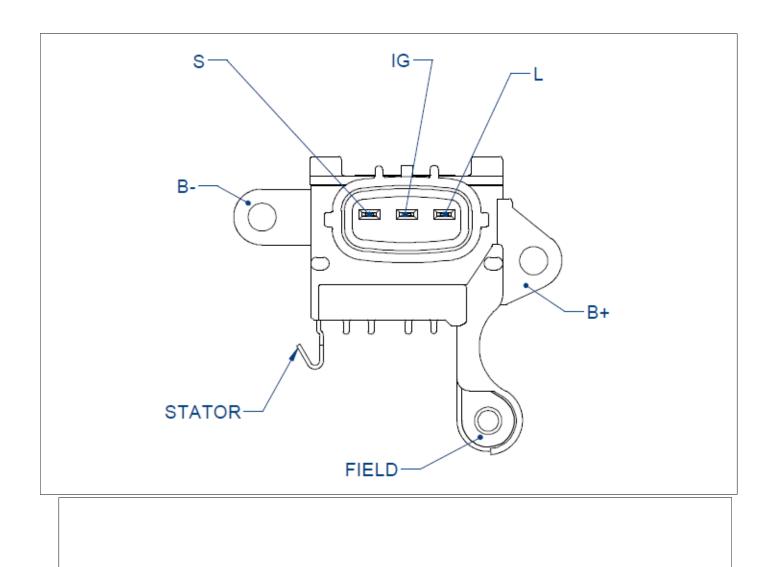
Page 691 Product Group Revision: Date : <u>1/6/2021</u>

for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6001-LM	В	12	14.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect Stator, the Lamp Indicator comes on.



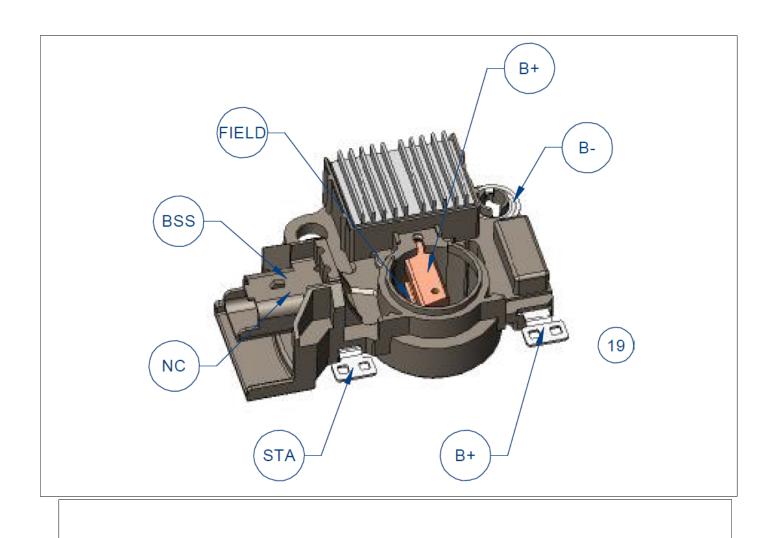
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		for	MITSUBISHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM912	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch 'COMM VOLTAGE' to 13V, 14V or 15V, range is +/-0.2V.

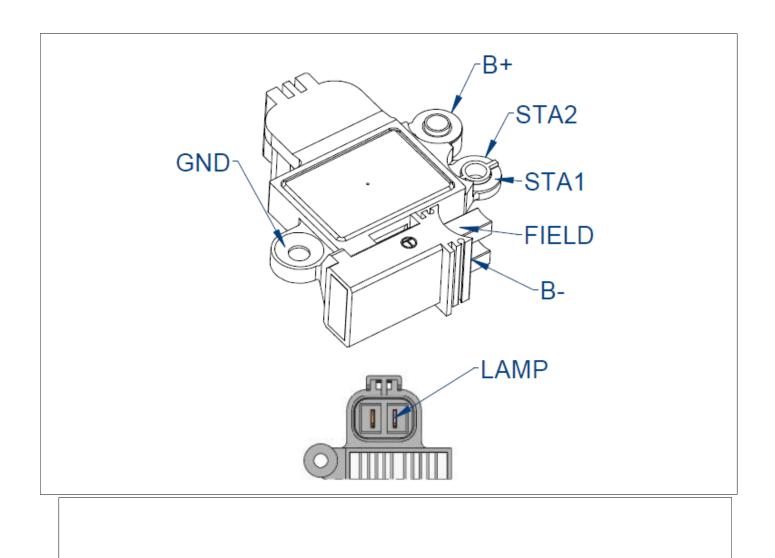


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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M532	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON.



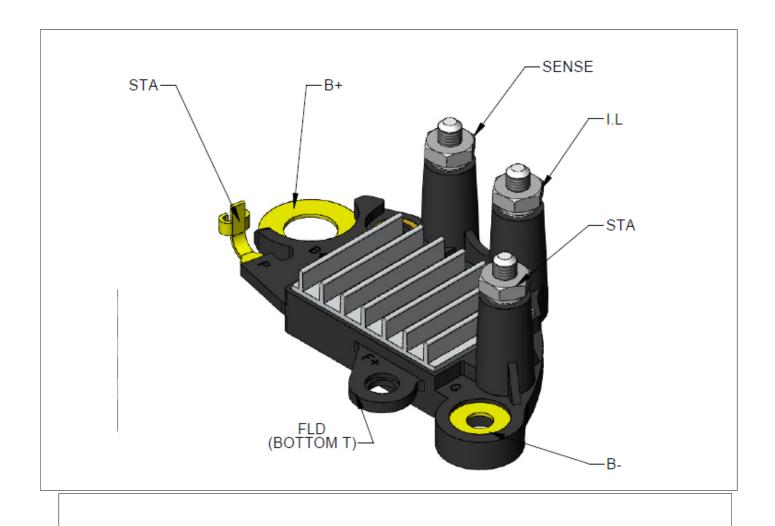
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		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D1334	В	24	28.0				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on. Push the Choke switch and the "Choke Drive" will turn on.



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MITSUBISHI

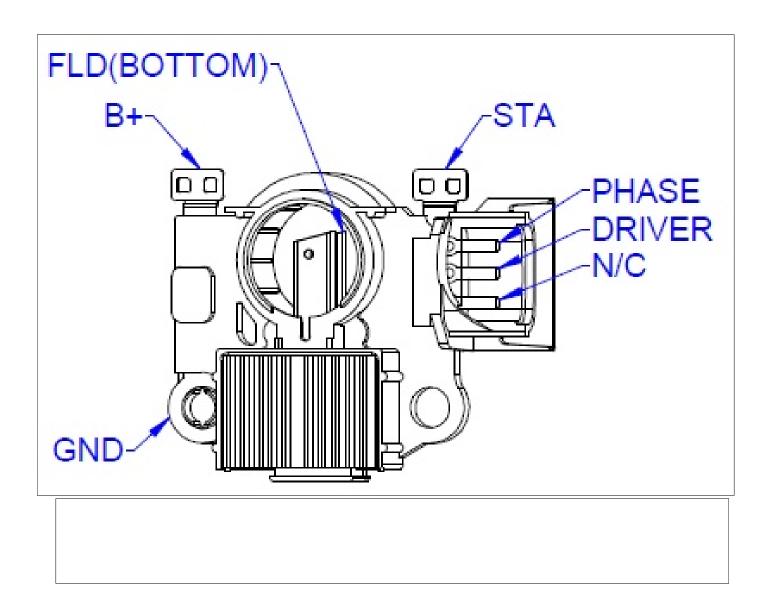
				3,6000			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM581	Α	12	14.4				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - IM581 has D-P terminal functions: D=Drive, P=Phase.

for

• D-P Type Regulators are immediately damaged if tested using procedure typical to common S-L type regulators, where B+ Voltage would be applied to the D terminal position.



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PART NO. FLD VOLT SET POINT PART NO. FLD VOLT SET POINT

IM633 A 24 28.4

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

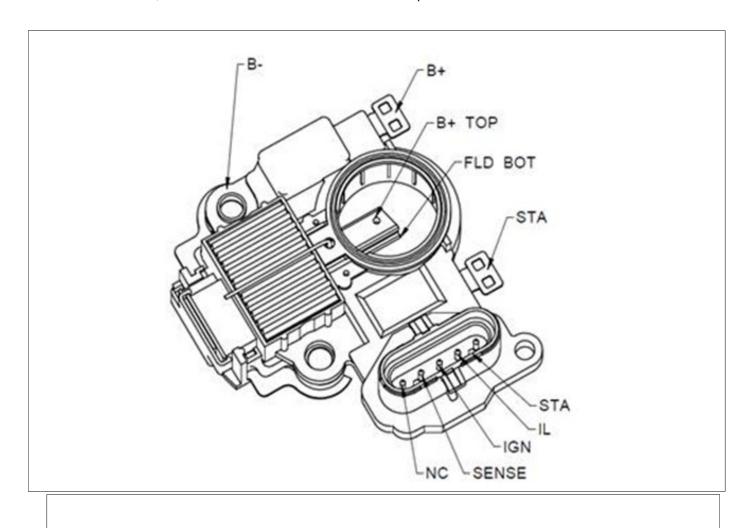
3. Amendments or Additional Tests:

Do not connect the FR terminal.

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Sense, the set point will be 28.5V +/-0.2V.

Reconnect Sense, disconnect the Stator terminal and the Lamp should turn ON.

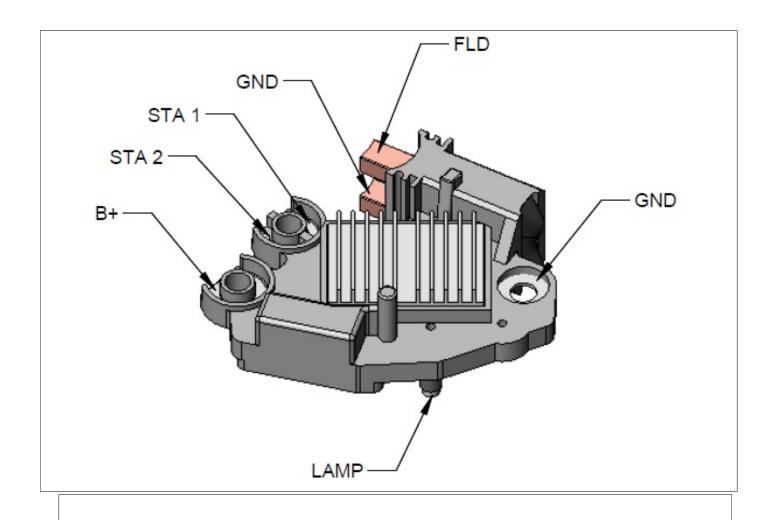


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for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M638	В	12	14.5				

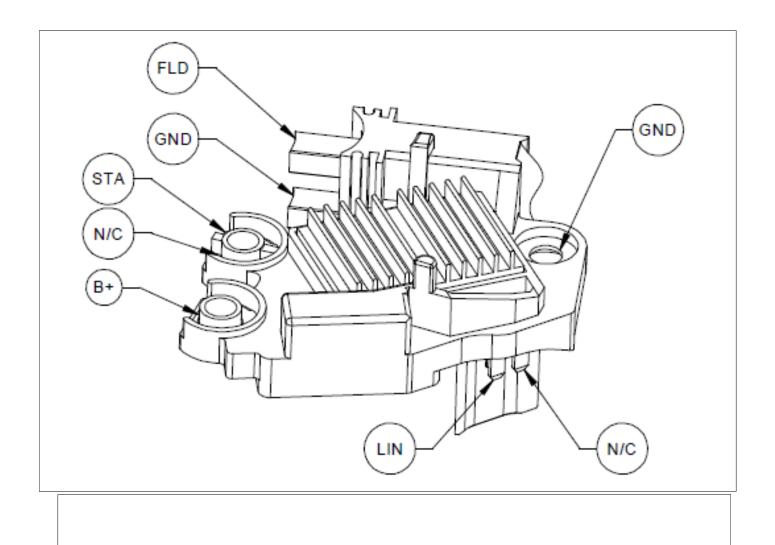
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M636	В	12	14.5				

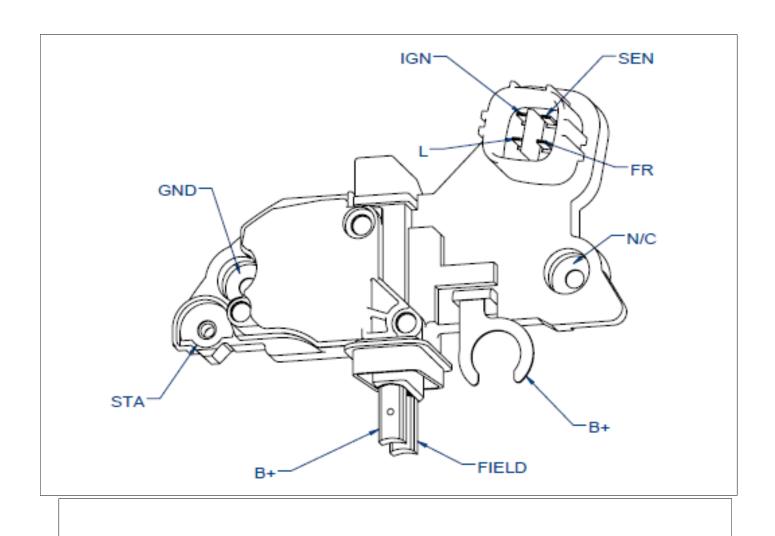
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	BOSCH	type regulat			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB875	Α	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

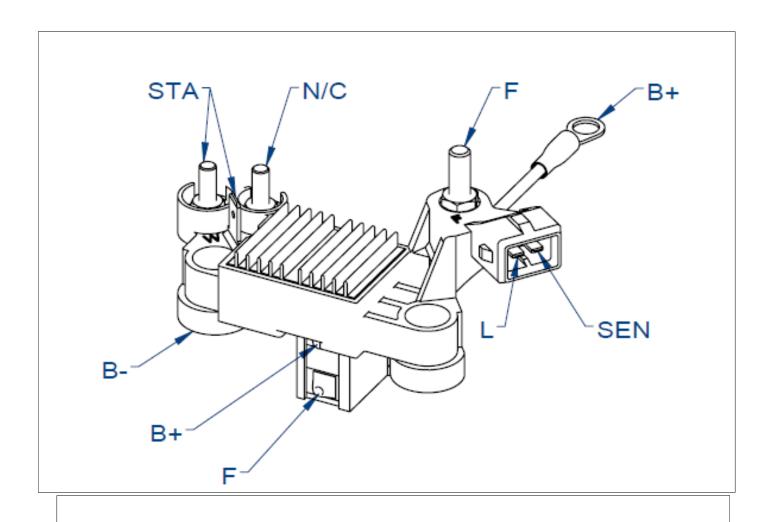


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for VALEO MOTOROLA type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
MP300	Α	12	14.2				
MP300225	Α	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should be 14.9+/-0.2V
 - 2. Reconnect Sense, disconnect Stator, the Lamp Indicator comes on.



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		for	DELCO	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
D1282	В	12	14.2					

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

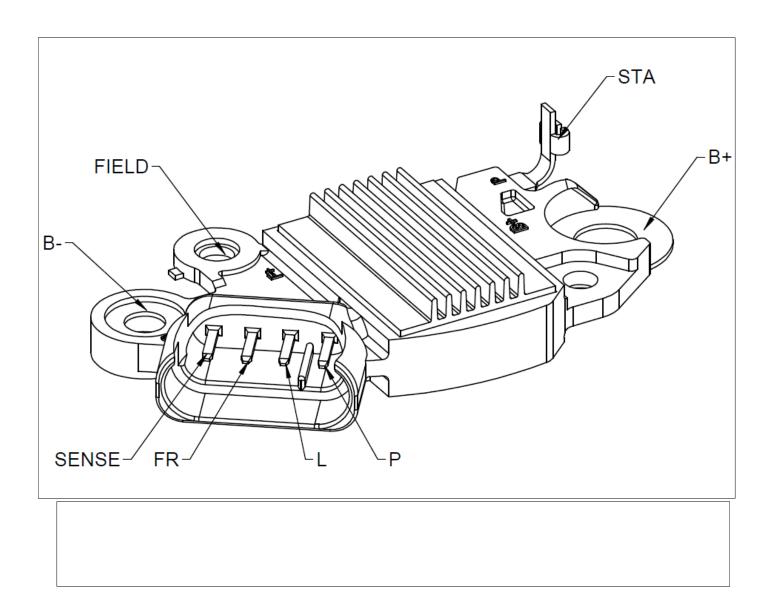
2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect Sense Lead and verify the setpoint is 14.2+/-0.2v.

Disconnect Stator Lead and verify the Light is on.

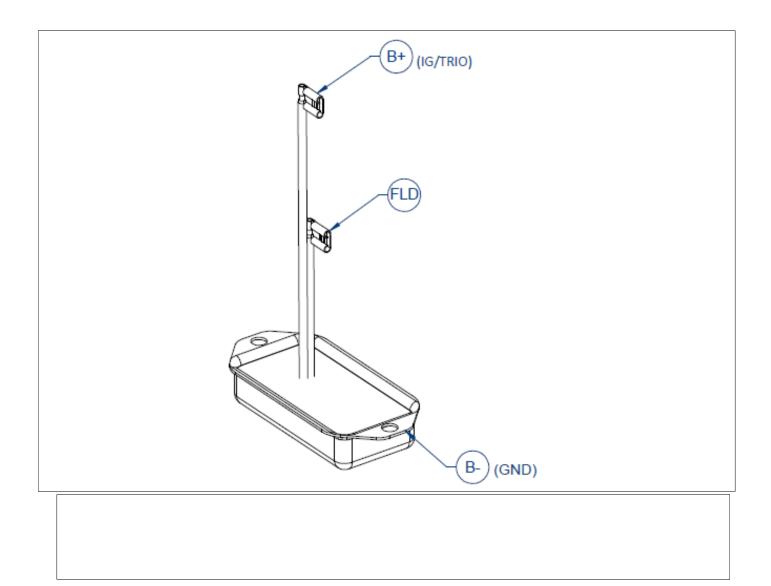
Push the OVER VOLTAGE button and verify the Light is on.



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		for	возсн	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB359B	В	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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type regulators

MITSUBISHI

				,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM826	Α	12	14.5				

1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

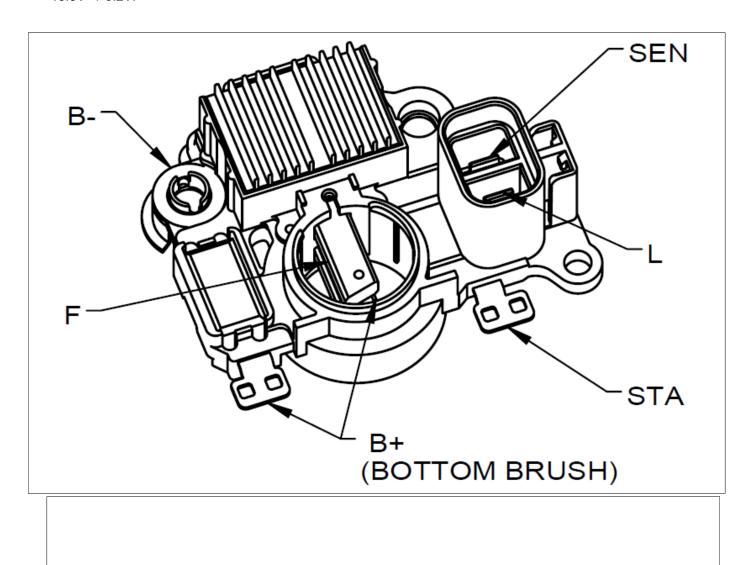
3. Amendments or Additional Tests:

Push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.

for

Reconnect the Stator terminal, disconnect the Sense, the "Lamp Indicator" will turn on and the set point will be 15.5V + -0.2V.



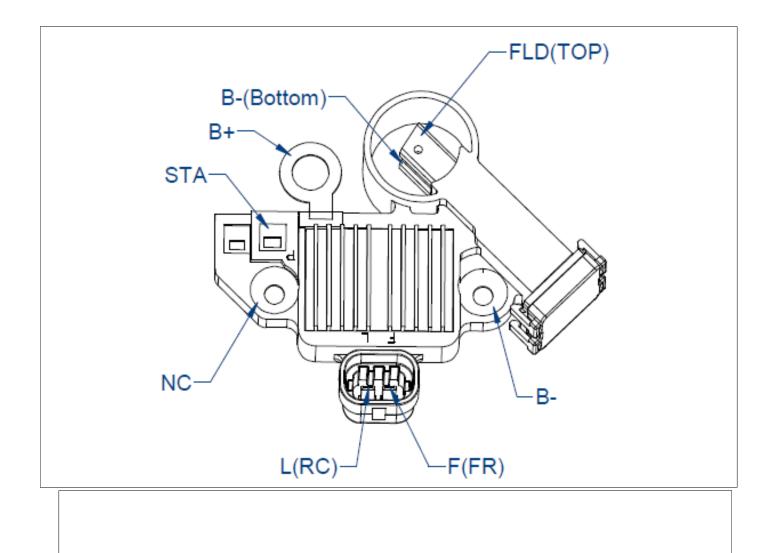
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for _____ type regulators

VOLT SET POINT PART NO. FLD VOLT SET POINT

PART NO.	FLD	VOLI	SET POINT	PART NO.	FLD	VOLI	SET POINT
D2112	В	12	13.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

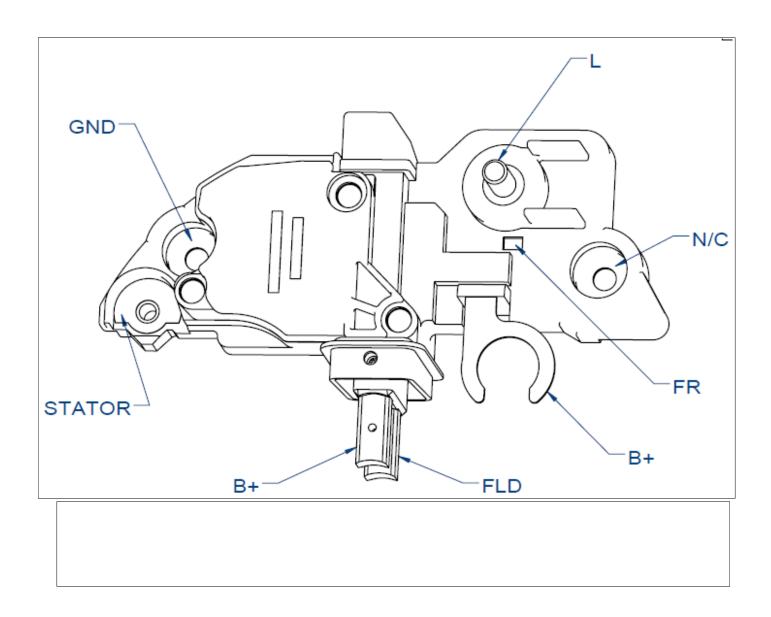


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		for	BOSCH	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
IB679	Α	12	14.3						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON.

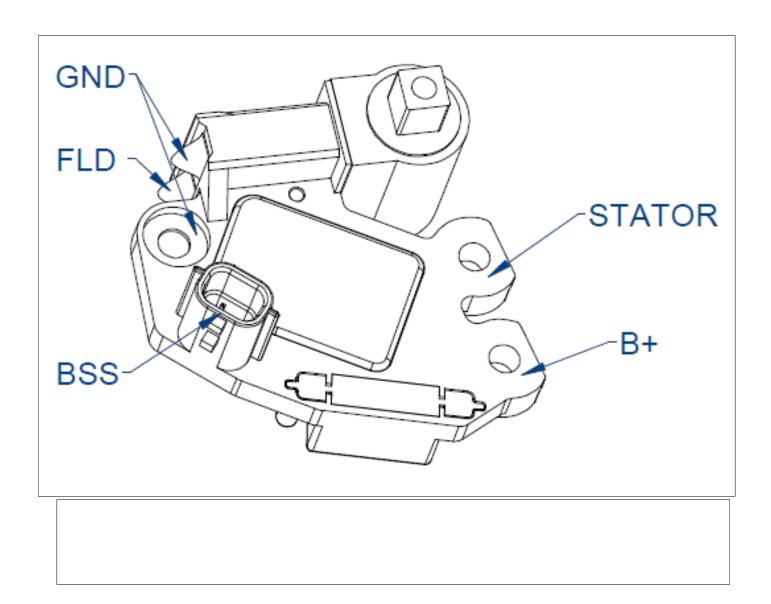


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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M586	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



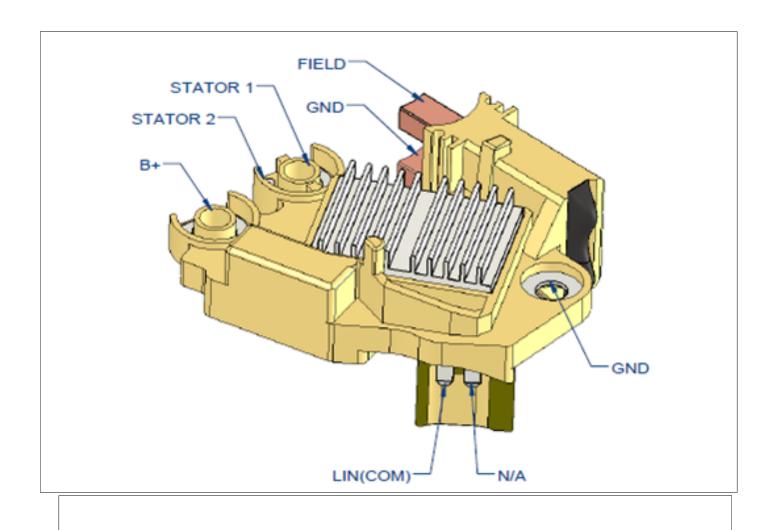
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		for	VALEO	type regulators		ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
M233	В	12	14.3					
M234	В	12	14.3					
M236	В	12	14.3					
M610	В	12	14.3					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



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MITSUBISHI

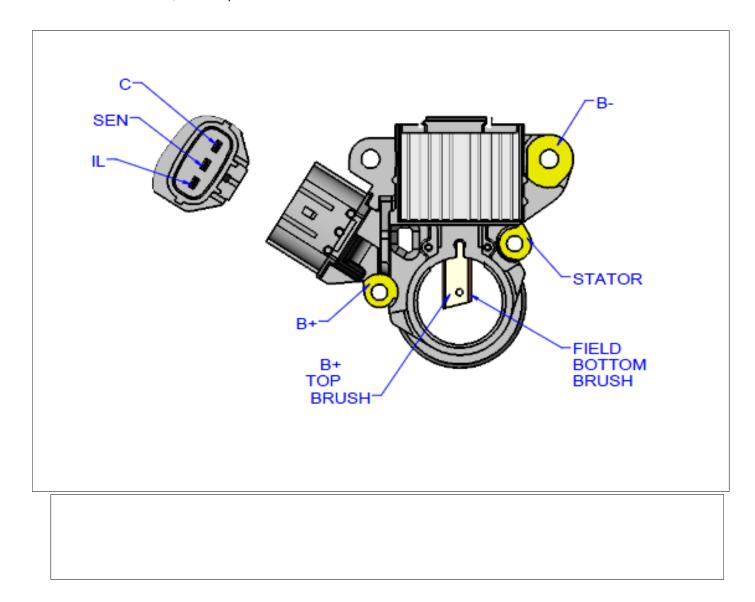
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM626	Α	12	14.6				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. Disconnect Sense, the setpoint should me 15.5+/-0.2V.

for

- 2. Reconnect Sense, connect C to B-, the setpoint should be 13.1+/-0.2V.
- 3. Disconnect C, disconnect Stator, the Lamp Indication comes on.
- 4. Reconnect Stator, the Lamp Indication comes on



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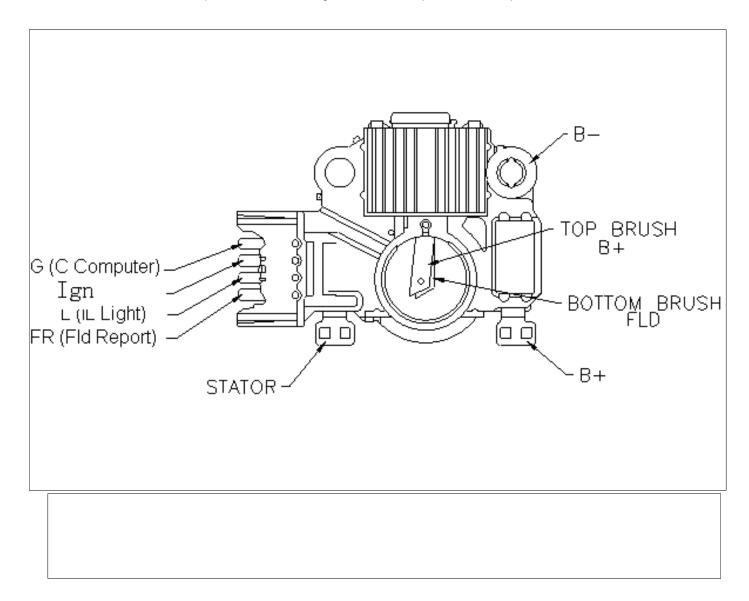
		for	MITSUBISHI	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IM627	Α	12	14.6					

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Do not conncet FR and C.

- 1. Disconnect Stator, the Lamp Indicator comes on and the Field Circuit LED should be dim.
- 2. Reconnect Stator, and connect the C terminal to B-, the set point should be 13.35+/-0.2V.
- 3. Disconnect C terminal, push the Over Voltage button on the panel, the Lamp Indicator comes on



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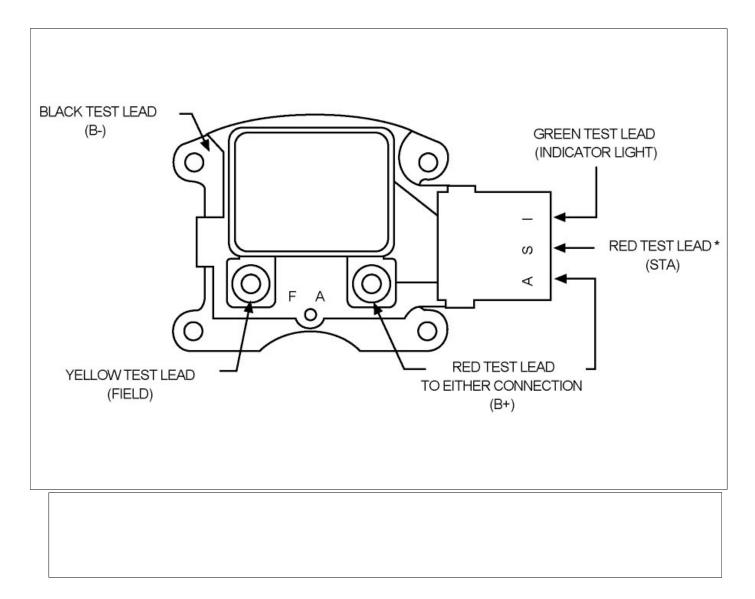
		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F794XHD	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Remove red test lead from terminal marked "S". Indicator light should turn on and the meter will still indicate the set point voltage. Removal of test of leads from "S" and " I" will result in field lamp turning off and the meter reading 12V.

To check for over Voltage, push the "Over Voltage" switch and the "Lamp Indicator" will turn on.

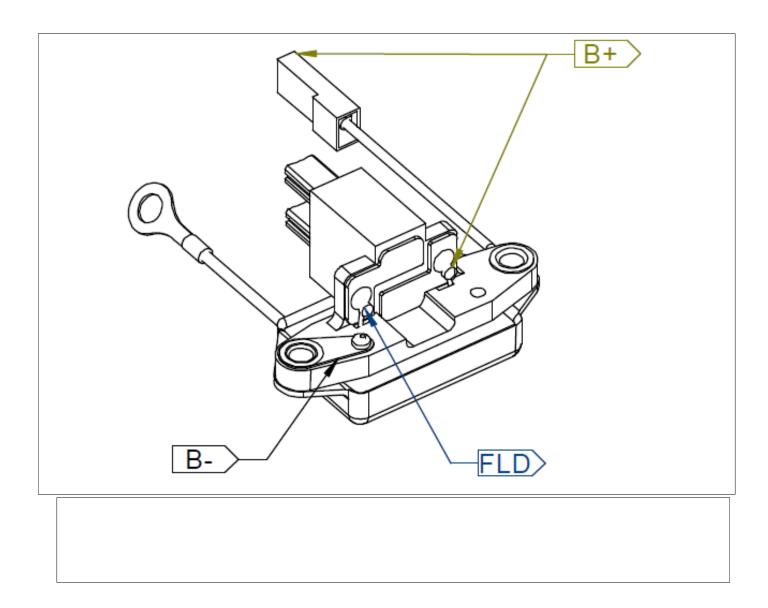


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for MAGNETON-PAL type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
MP291F	Α	12	14.5				

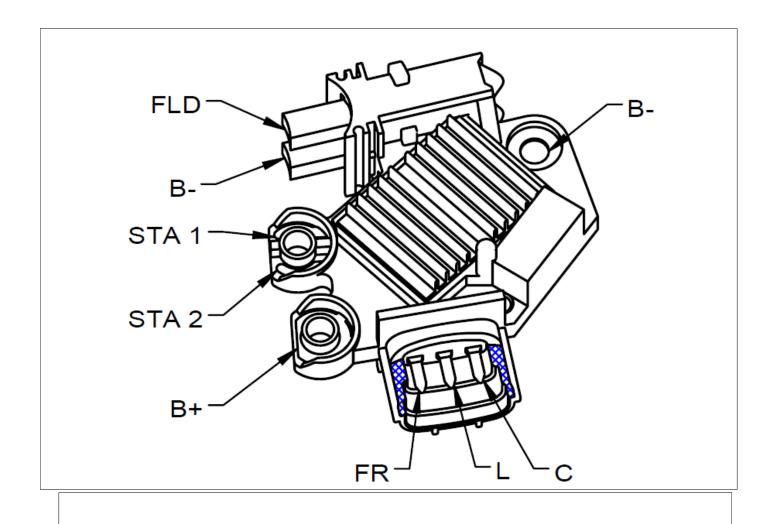
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M593	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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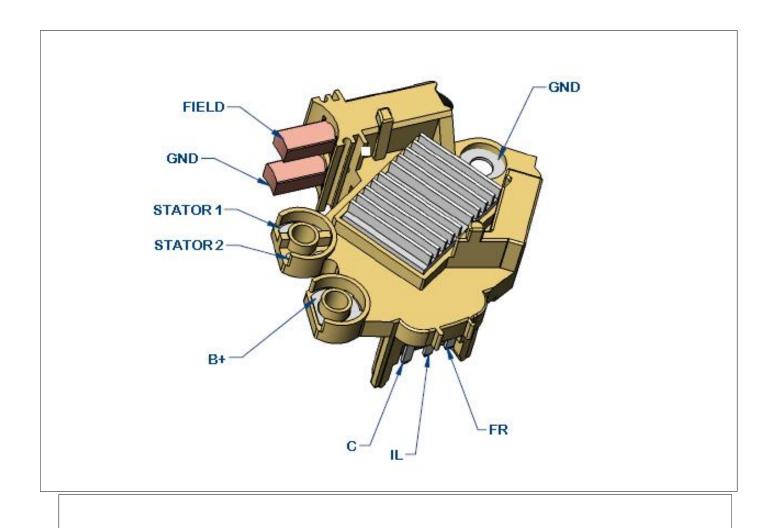
type regulators

VALEO

for

				,po .og	. •		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M633	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



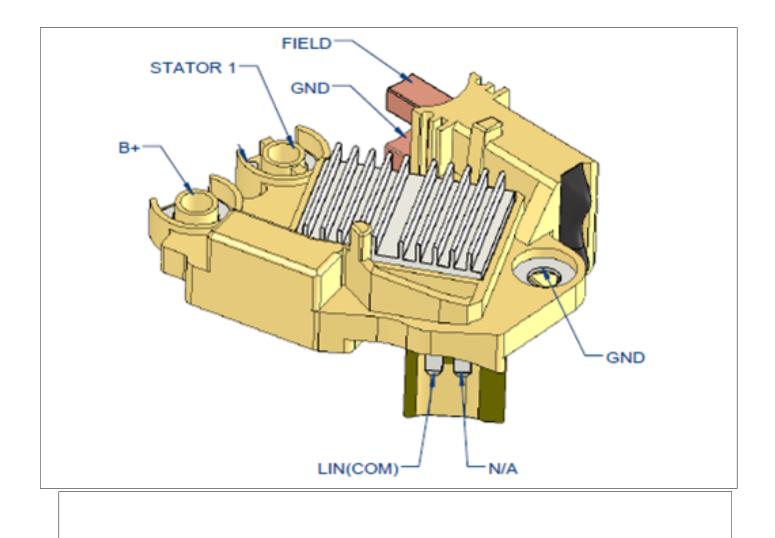
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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M601	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



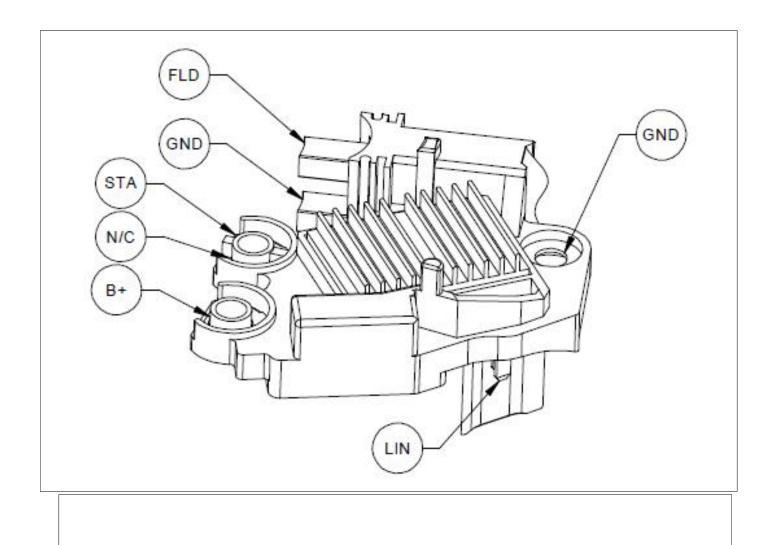
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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M603	В	12	14.3				
M620	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



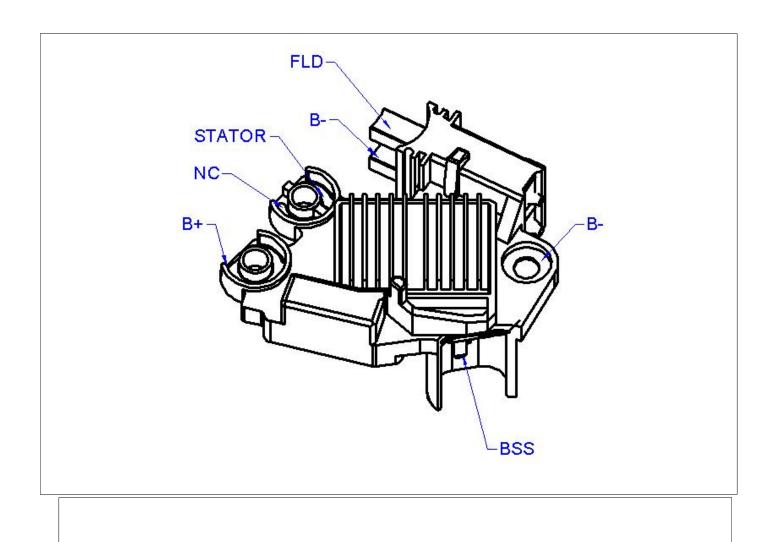
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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M600	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



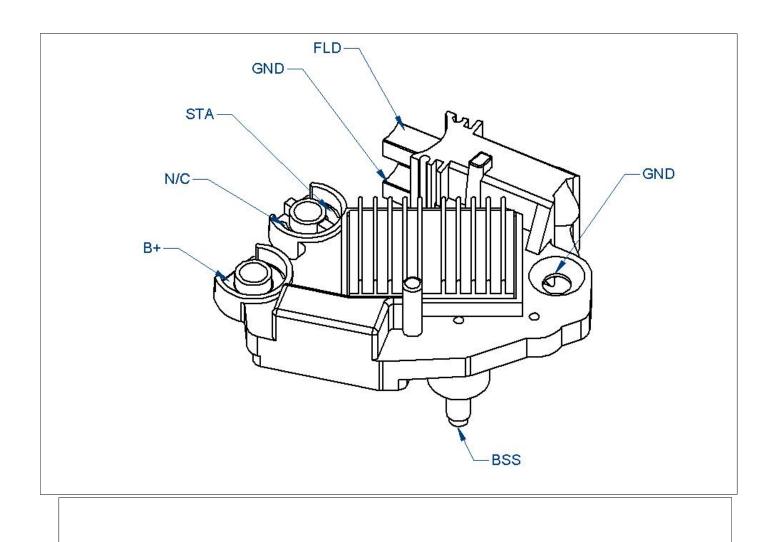
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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M464	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



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type regulators

MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM275CN	A	12	14.5				

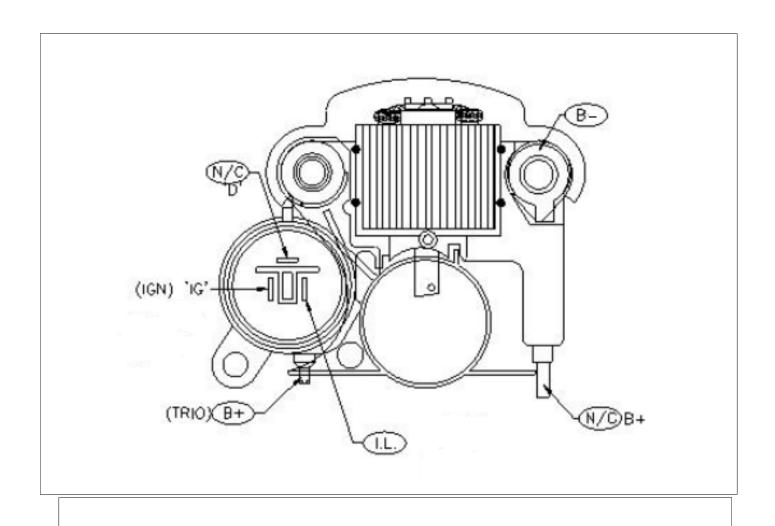
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Disconnect the TRIO and IL connections from the VRC2010,

the VRC2010 alarm beeps and set point on the DMM is about 15.2V.

for



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		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D2024	В	12	*13.8				

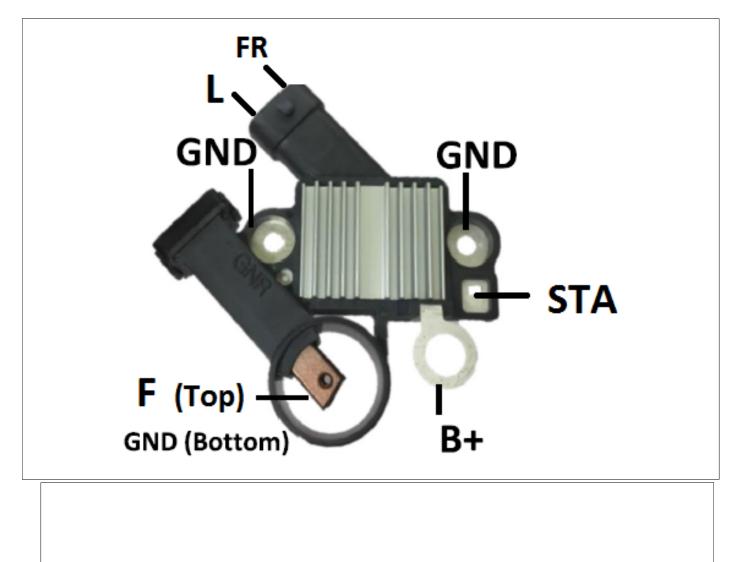
1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect L terminal of D2024 to RCV terminal on VRC2010 tester.

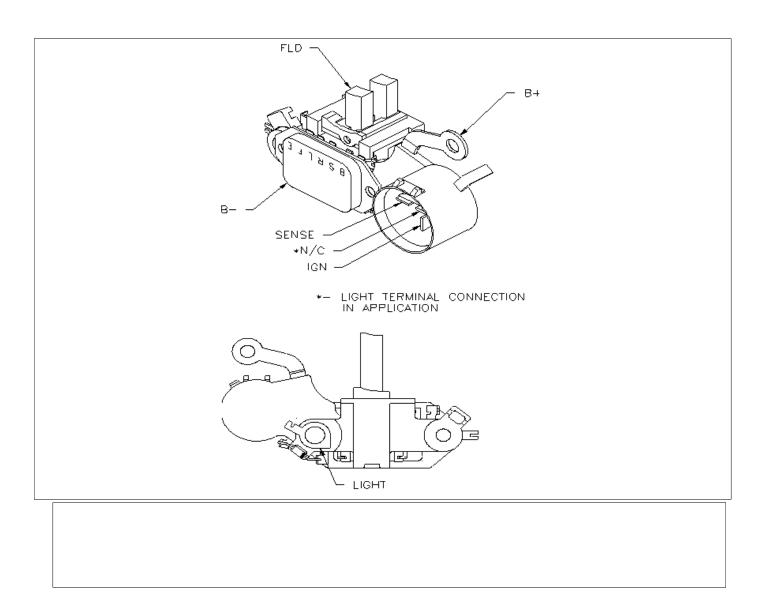
- 1. Adjust Comm Voltage switch to position 13, Setpoint is 12.0V.
- 2. Adjust Comm Voltage switch to position 14, Setpoint is 13.2V.
- 3. Adjust Comm Voltage switch to position 15, Setpoint is 14.4V.
- * The 13.8V Set Point indicated above is the 'default VSet' (no vehicle PCM input).



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		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH253	Α	24	28.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:
 - 1. The Setpoint Voltage is about 28.5+/- 0.3
 - 2. Disconnect the Sense cable, the secondary setpoint range is from 29.2V to 32V, normal is 30V



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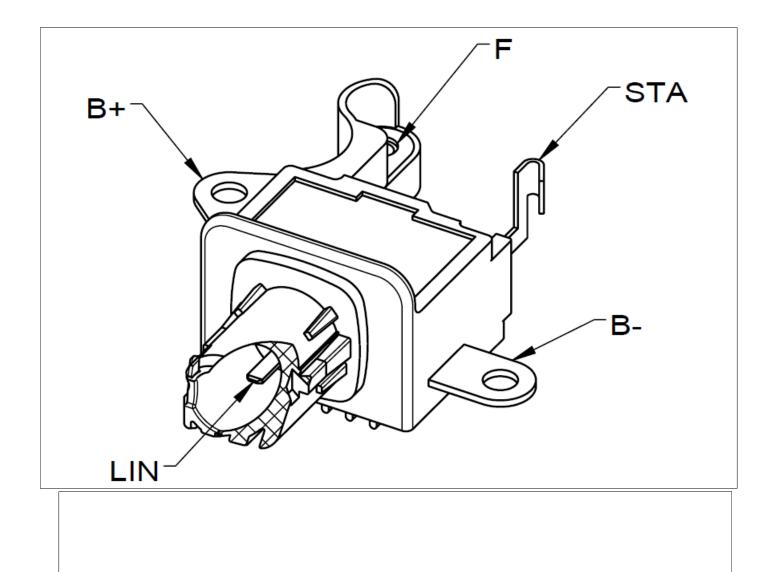
NIPPONDENSO type regulators FLD **VOLT** SET POINT PART NO. FLD VOLT SET POINT

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN6373	Α	12	14				

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and goes with the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



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MITSUBISHI

for

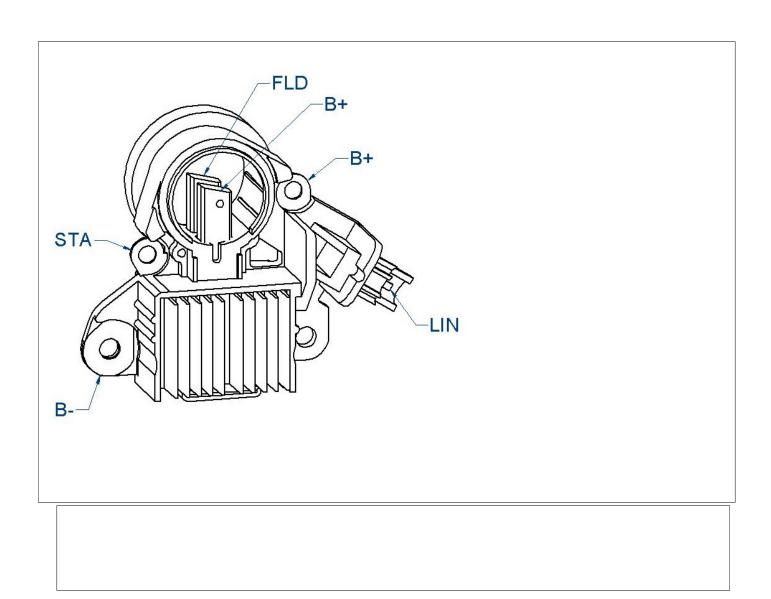
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM404	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and rotate the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.



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MITSUBISHI

for

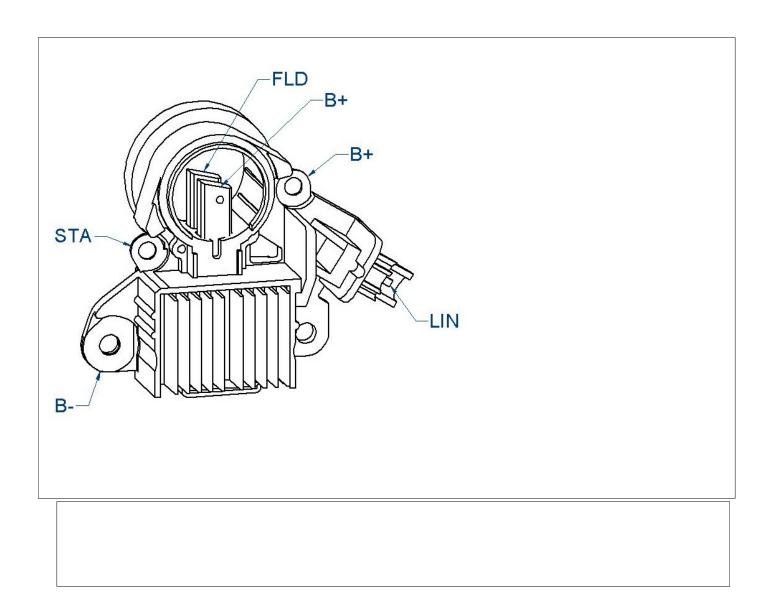
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM624	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the SET POINT is adjustable and rotate the switch "COMM VOLTAGE" to 13V, 14V or 15V, range is +/-0.2V.

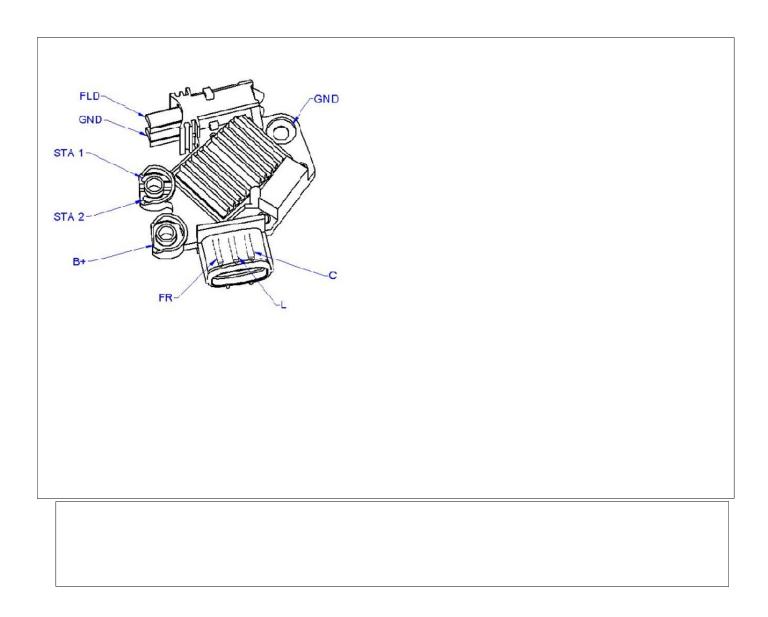


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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M621	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should Turn On



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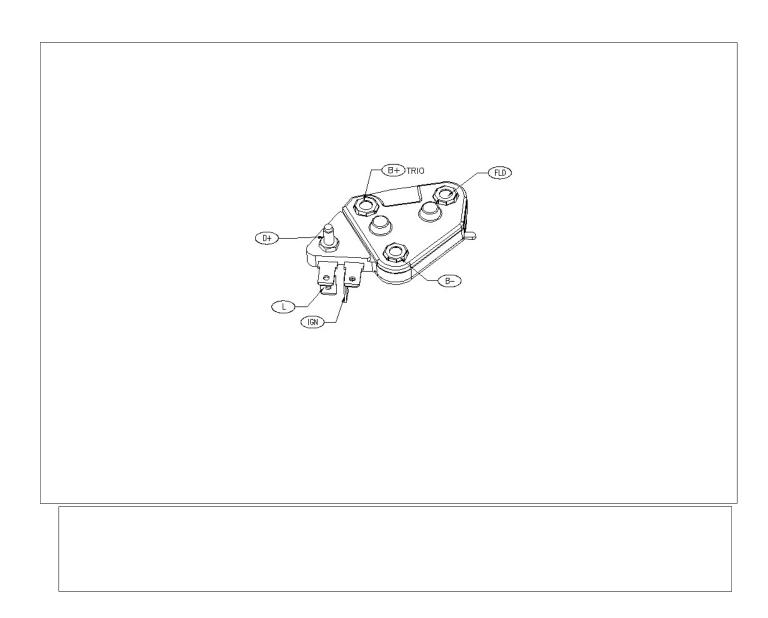
DELCO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE610	Α	12	14.0				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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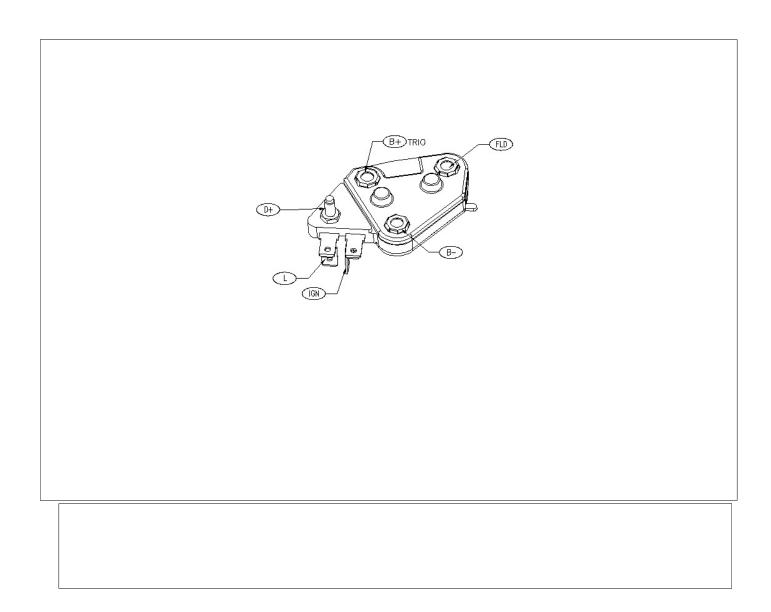
DELCO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
DE611	A	24	27.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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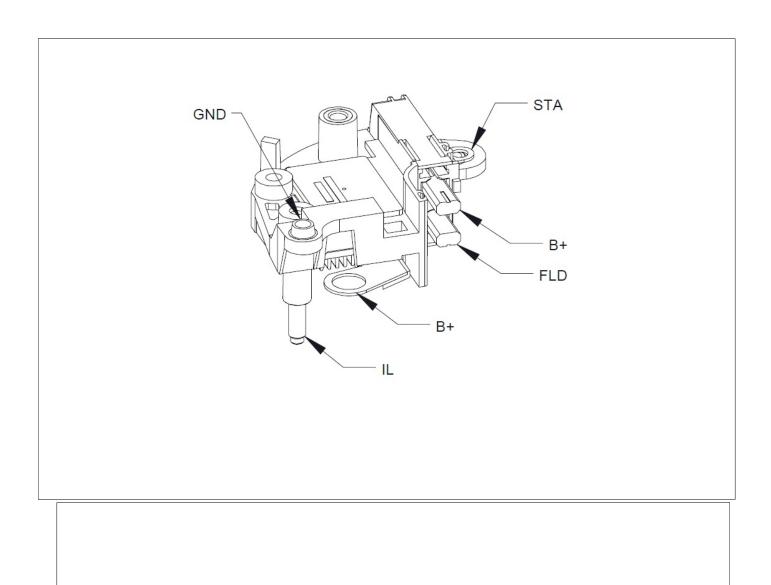
for MAGNETI MARELLI type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IX599	Α	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on.

Disconnect the Stator terminal and the Lamp should turn ON.



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VALEO

		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M577	В	12	14.1				

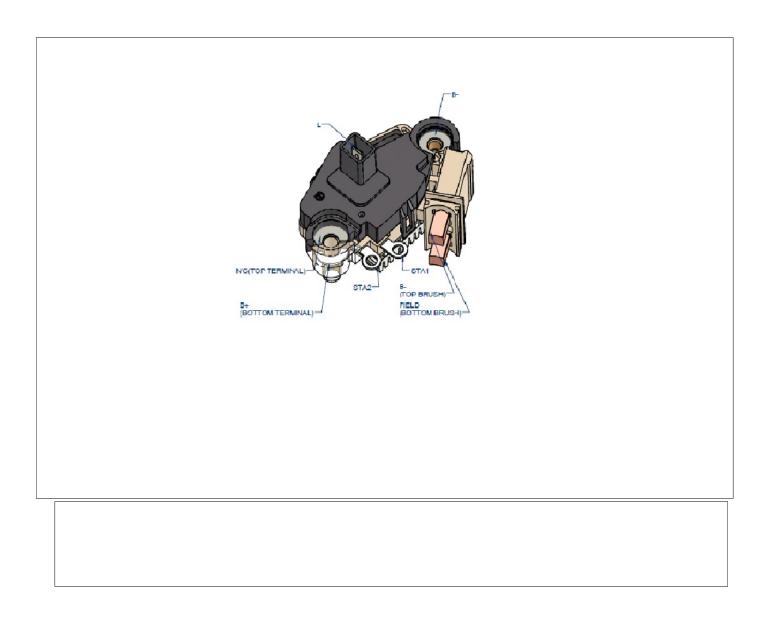
type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect STA1 and STA2 to VRC2010. Turn the STATOR swicth to 150HZ.

for

- 1. disconnect Stator, the Lamp Indicator turns on, and the Field Circuit led should be dim.
- 2. Reconnect Stator, push the Choke Drive button on the panel, the Choke Drive Indicator turns on.

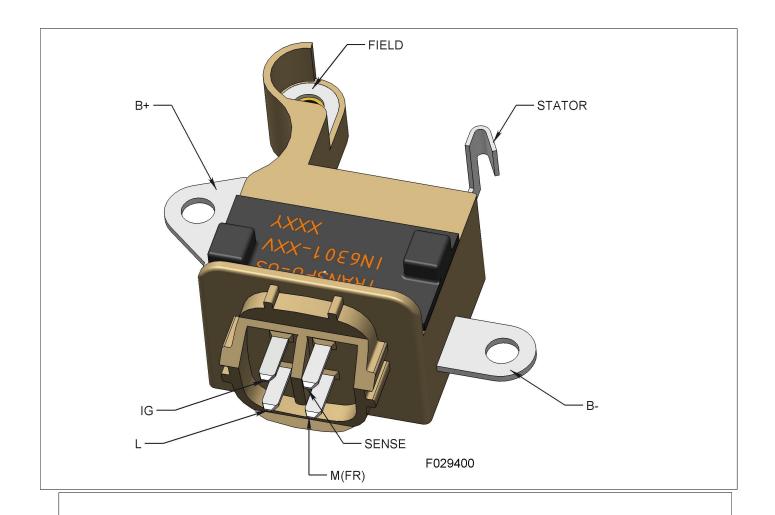


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for NIPPONDENSO type regulators

PART NO.	FLD	VOLI	SET POINT	PART NO.	FLD	VOLI	SETPOINT
IN6305	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



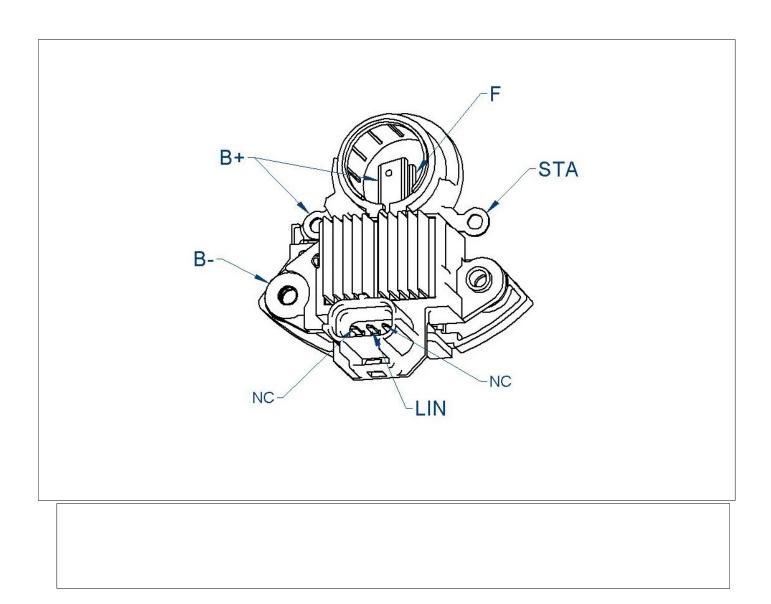
Page 730 Product Group Revision: Date : 1/6/2021

		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M629	Α	12	14.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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VALEO

for

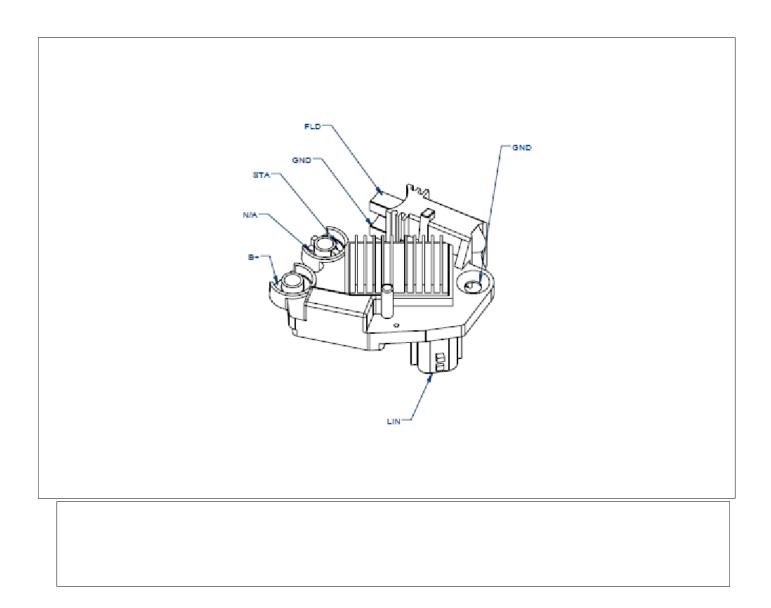
				3,6000			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M609	В	12	14.0				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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MITSUBISHI

PART NO. FLD VOLT SET POINT PART NO. FLD **VOLT SET POINT**

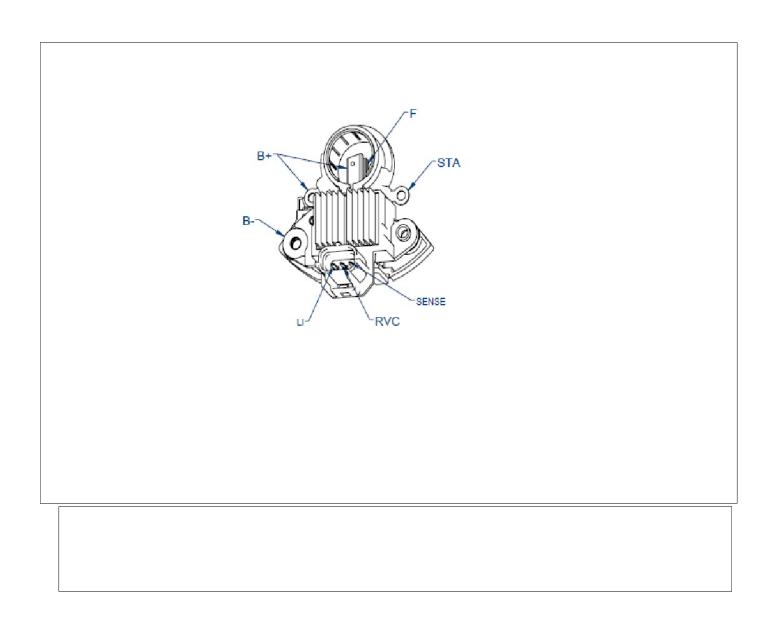
type regulators

IM631	Α	12	13.5		

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



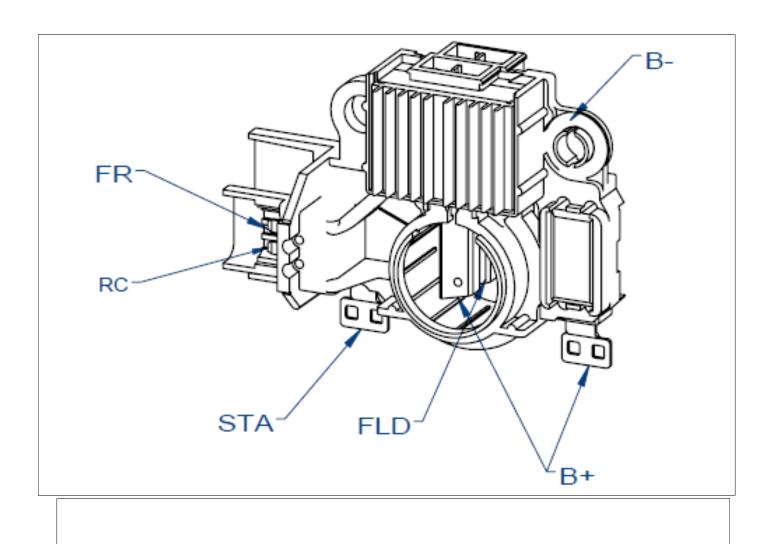
Product Group Date: 1/6/2021 Revision: Page 733

		for	MITSUBISHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM527	Α	12	13.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to RC of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.

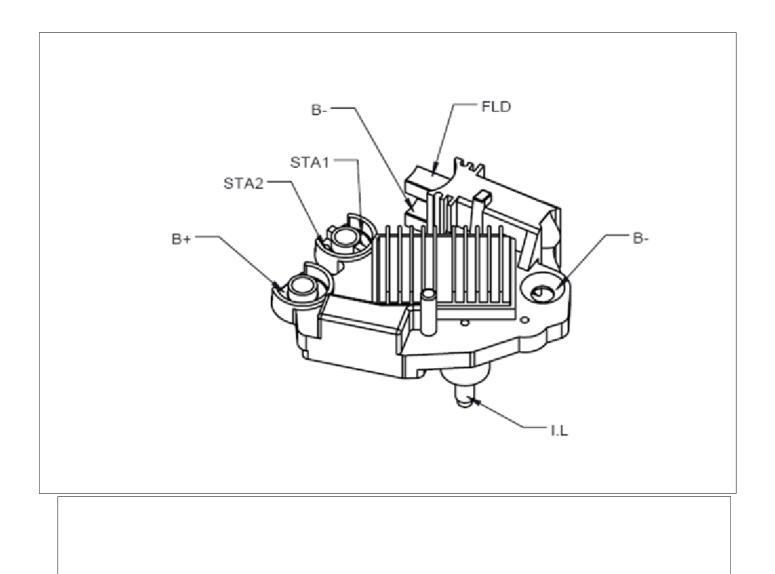


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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M642	В	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Push the Choke switch and the "Choke Drive" will turn on.



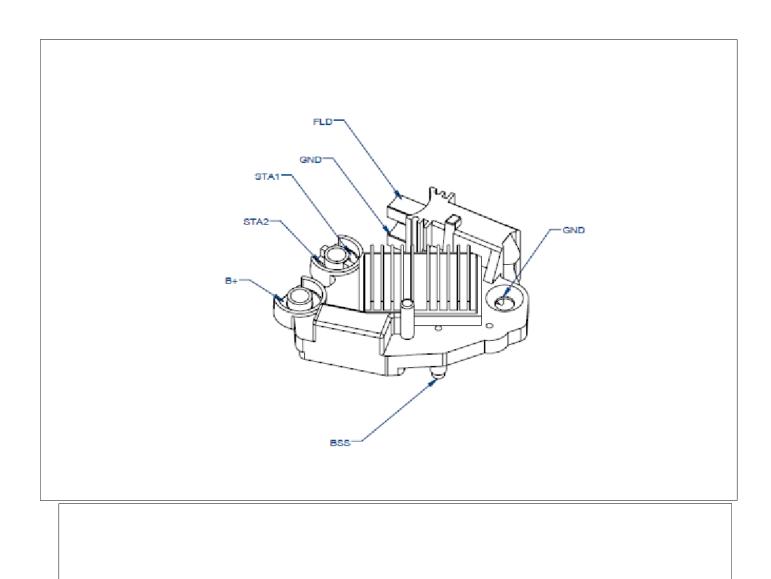
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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M154	В	12	14.35				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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VALEO

for

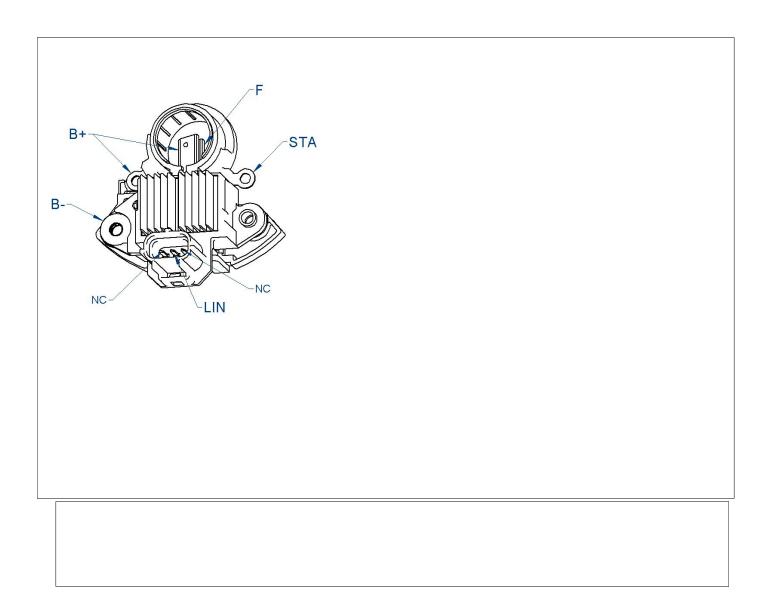
				,po .ogu			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM629	Α	12	13.8				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V



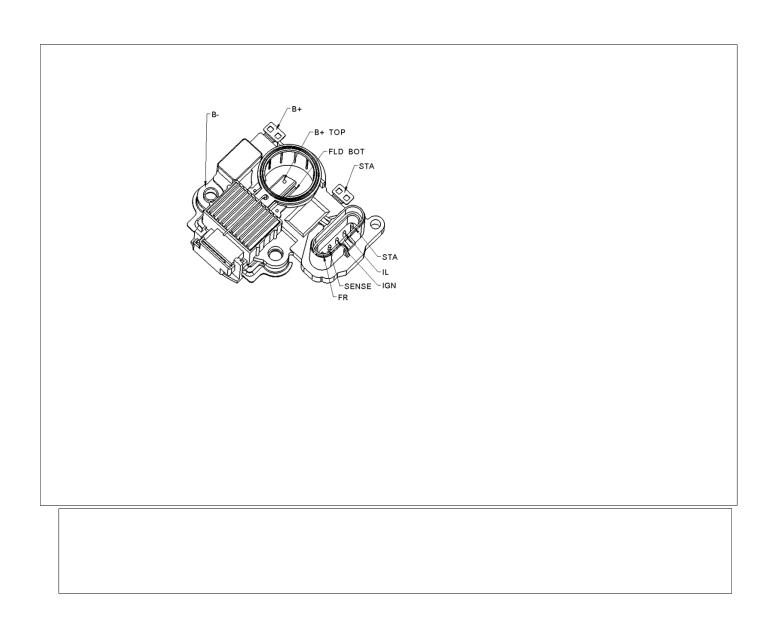
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1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.

2. POWER ON: Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

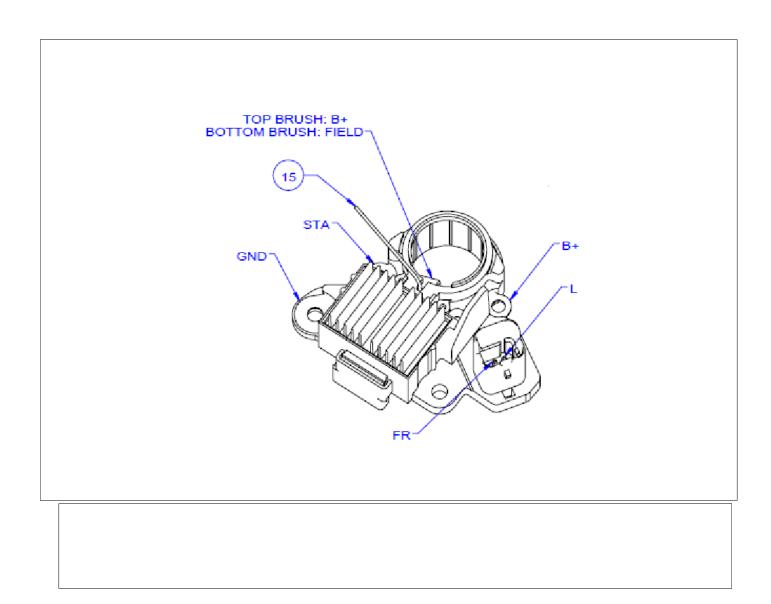
Disconnect the Stator terminal and the Lamp should turn ON



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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM636	Α	12	14.5				

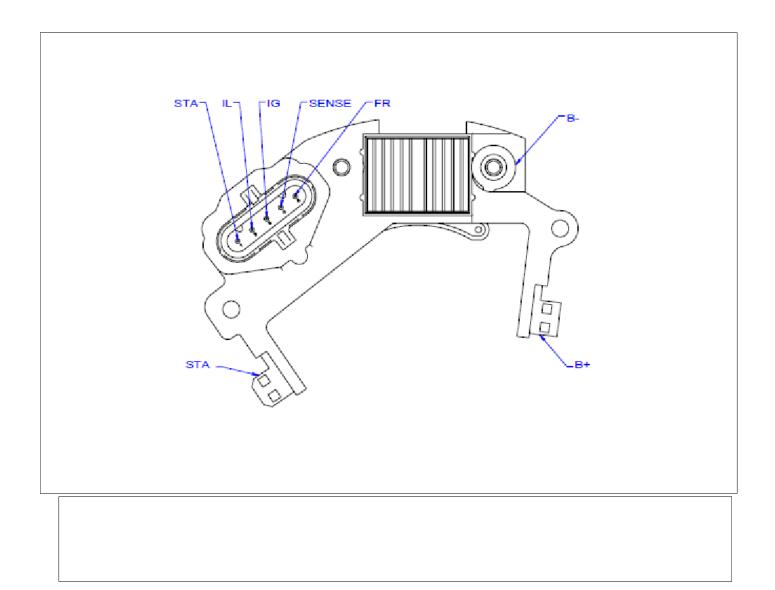
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON



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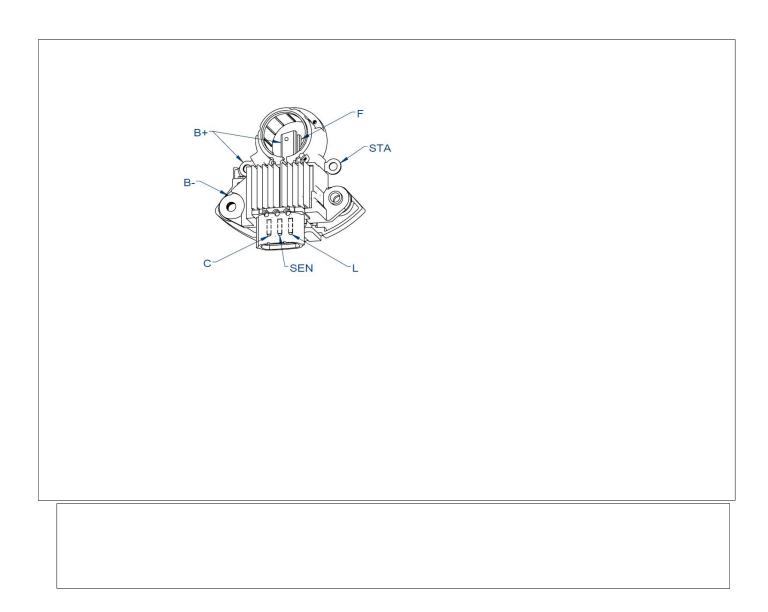
type regulators

VALEO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM625	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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type regulators

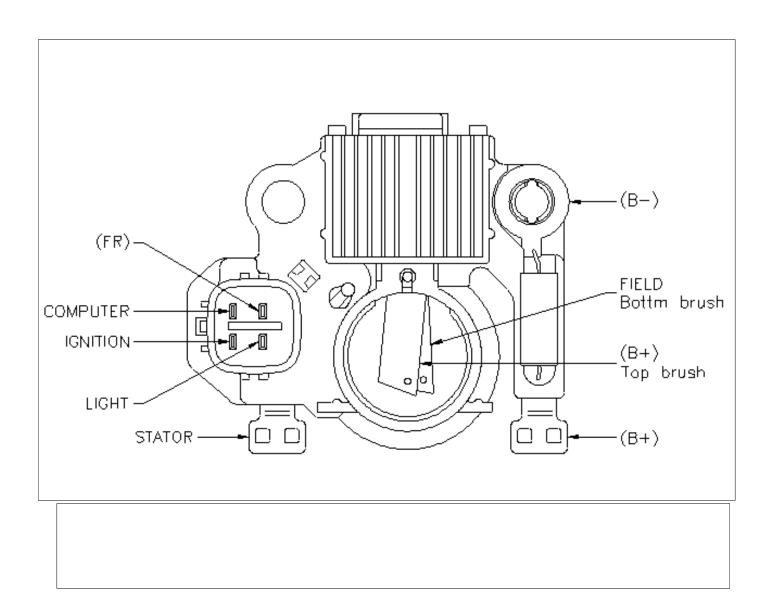
MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM582	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Connect C to B-,the Vset is 12.77V.

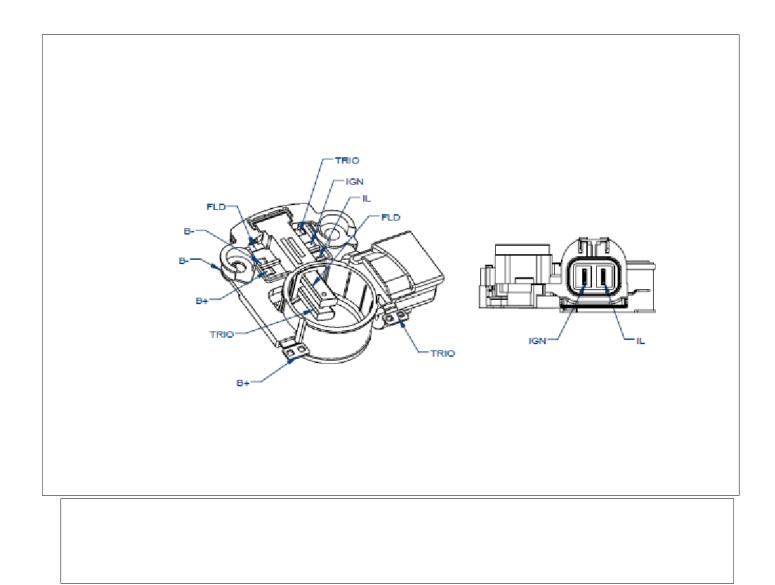
for



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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM997	Α	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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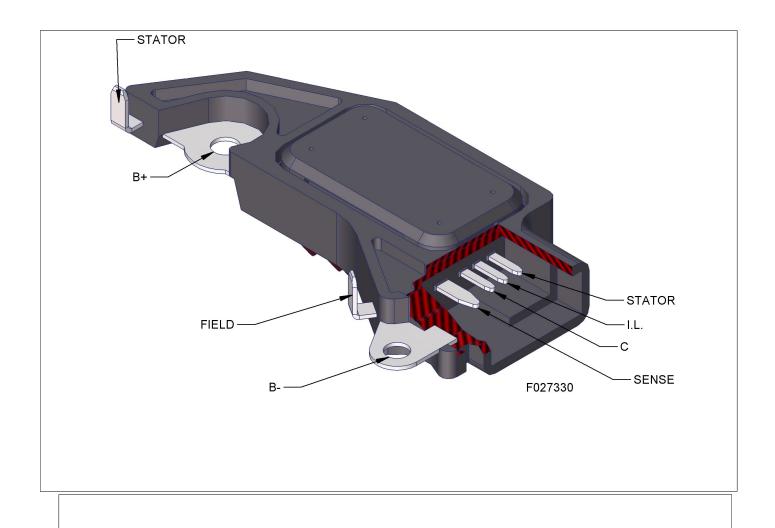
DELCO

for

				5,6000			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D411SEA	В	12	14.7				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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VALEO

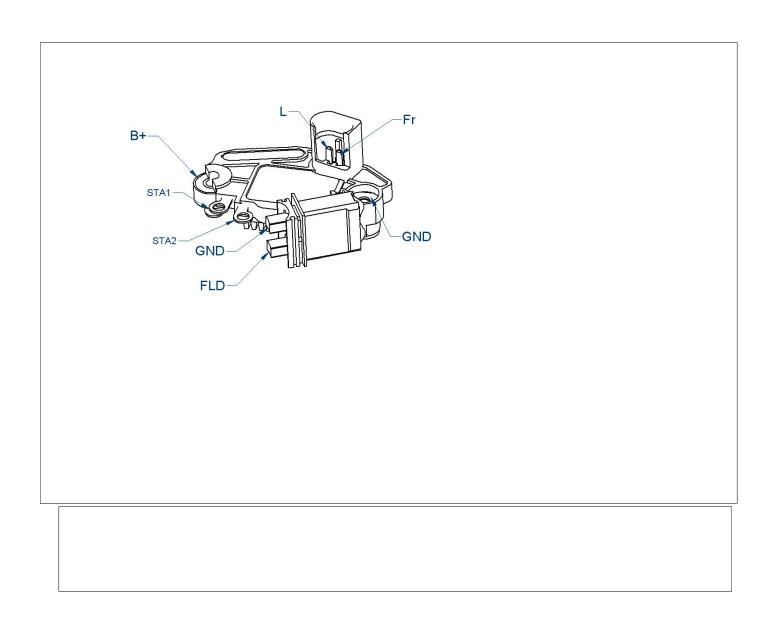
			***************************************	, po . og a. a.c.	0.0		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M641	В	12	14.3				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn ON

for



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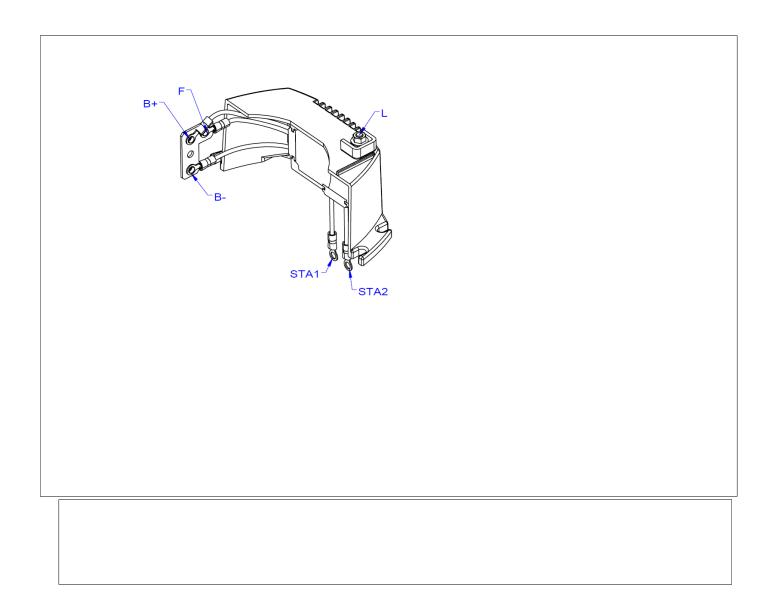
TRANSPO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-2131U	Α	12	14.2				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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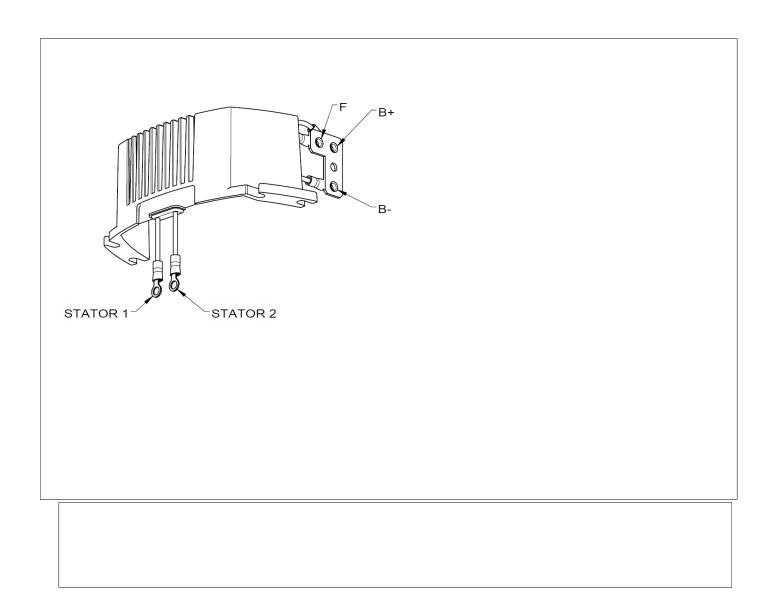
TRANSPO

for

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M5-563	Α	12	14.3				

type regulators

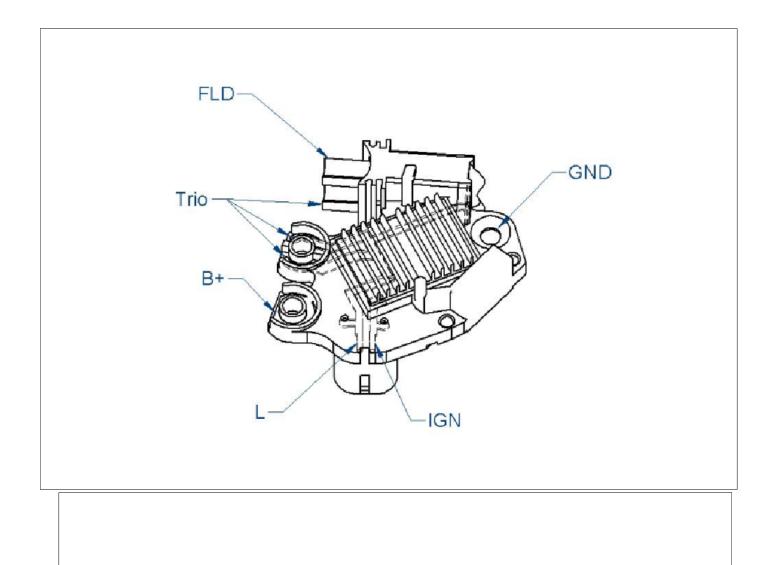
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M639	В	12	14.7				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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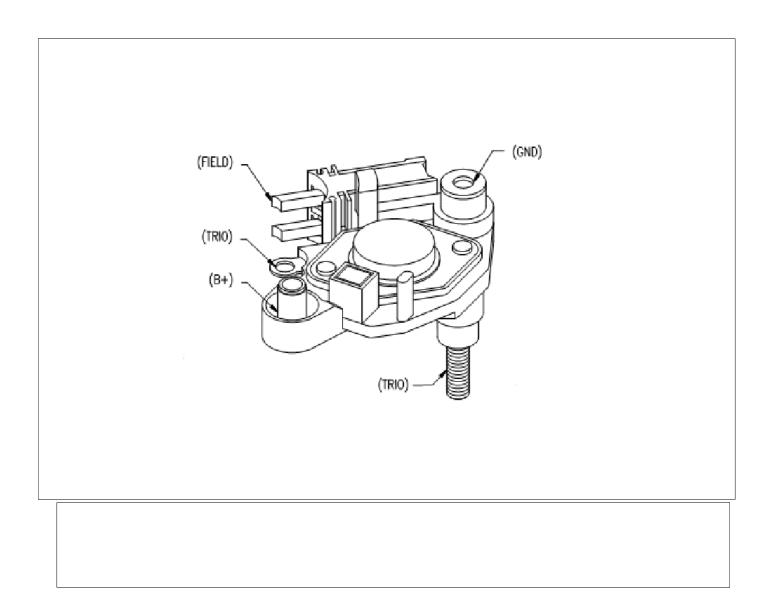
type regulators

VALEO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M430	Α	24	28.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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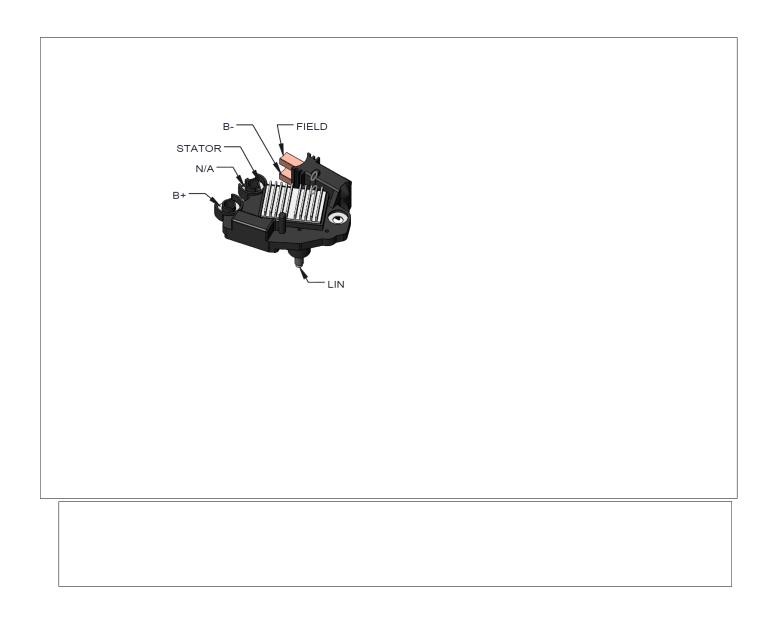
for _____ type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M594	В	12	14.3				
M595	В	12	14.3				
M596	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.

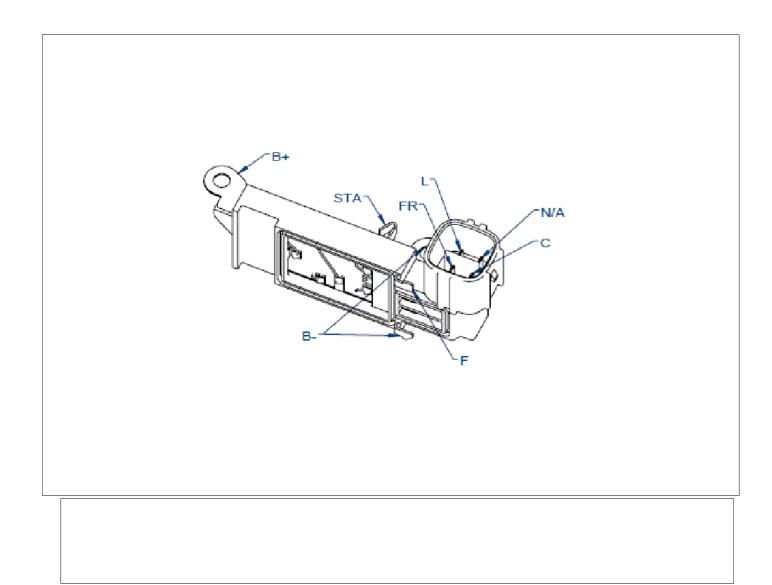


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for _____ type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D2298	В	12	14.5				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



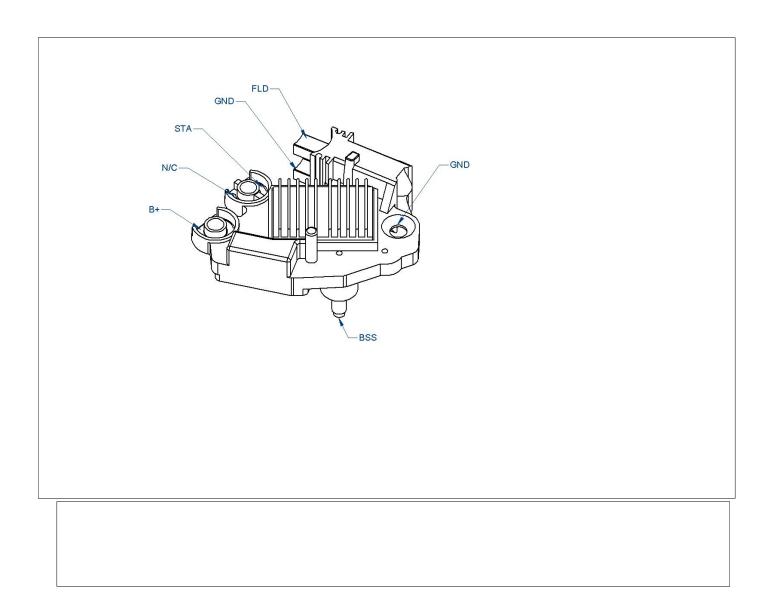
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		for	VALEO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M648	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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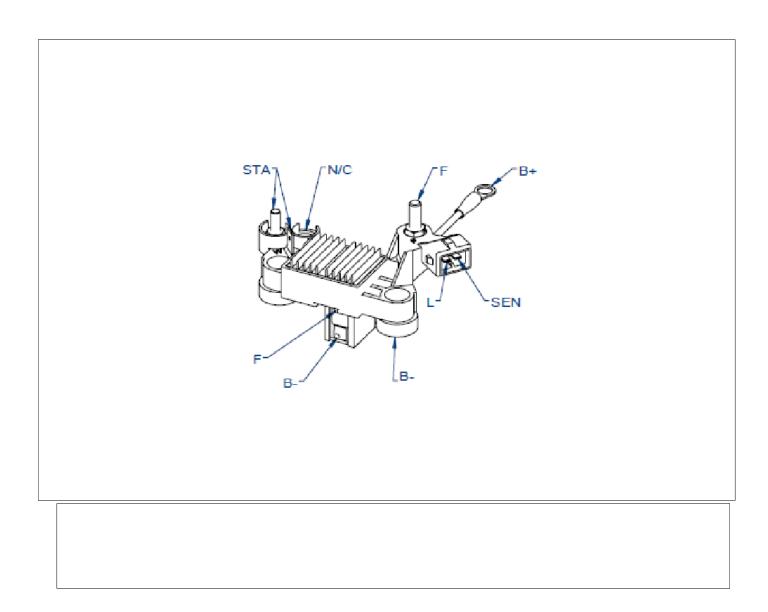
TRANSPO

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
MP301	В	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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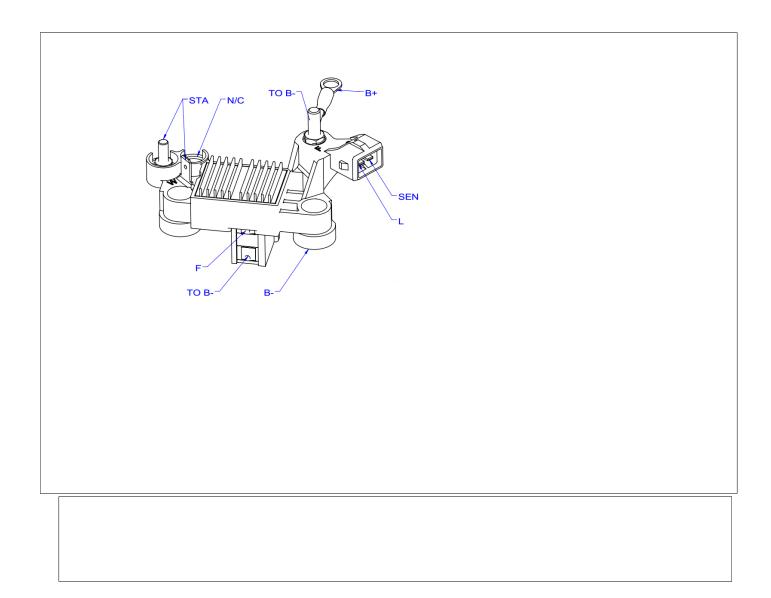
TRANSPO

for

		-					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
MP302	В	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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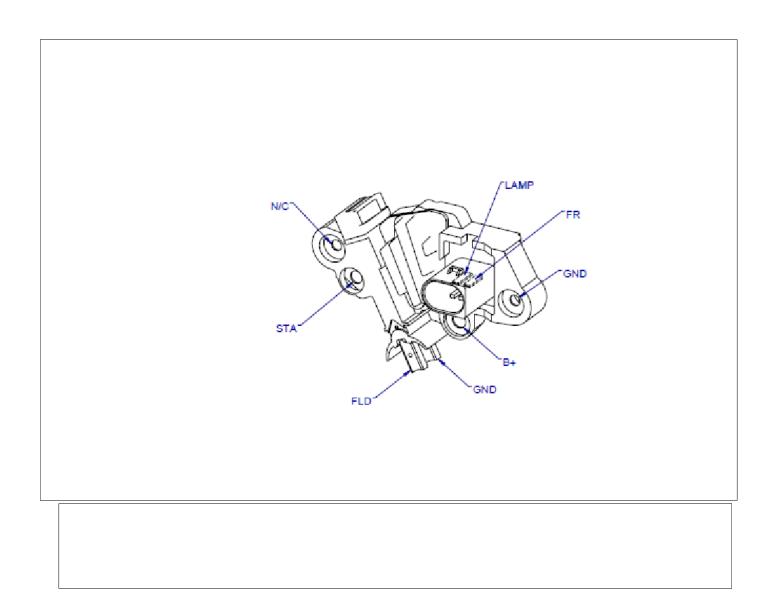
type regulators

BOSCH

for

				,po .og	. •		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5291	В	12	14.5				

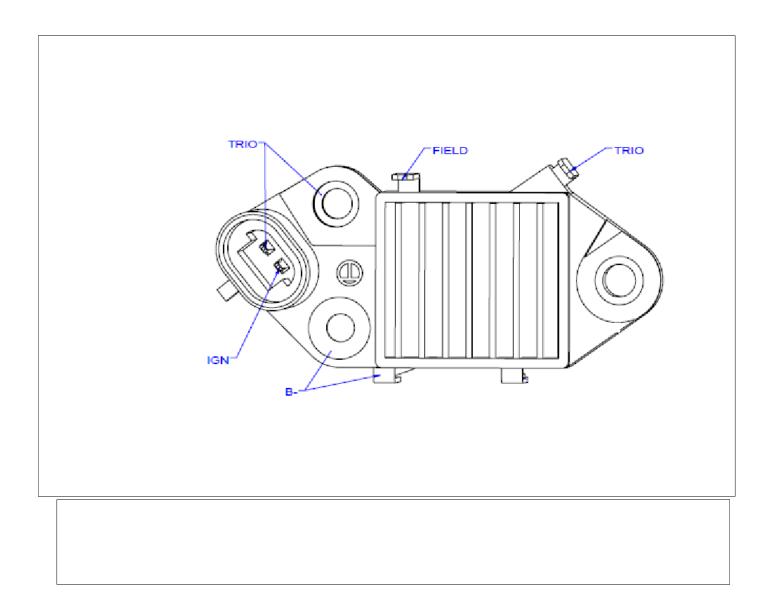
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	DELCO	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
D910	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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type regulators

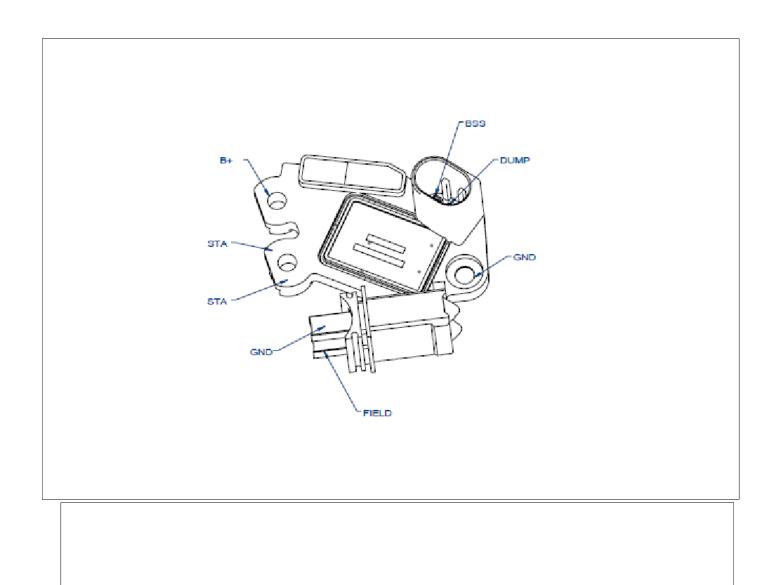
VALEO

for

				3,60009			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M646	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

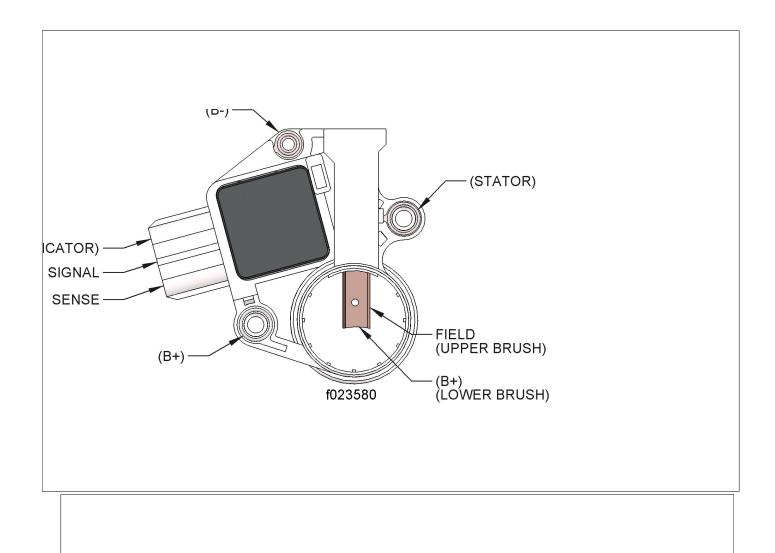
Connect terminal to BSS of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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		for	FORD	type regulate	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F601F	Α	12	14.03				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	VALEO	type regulato	ors		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
M608	В	12	13.8				

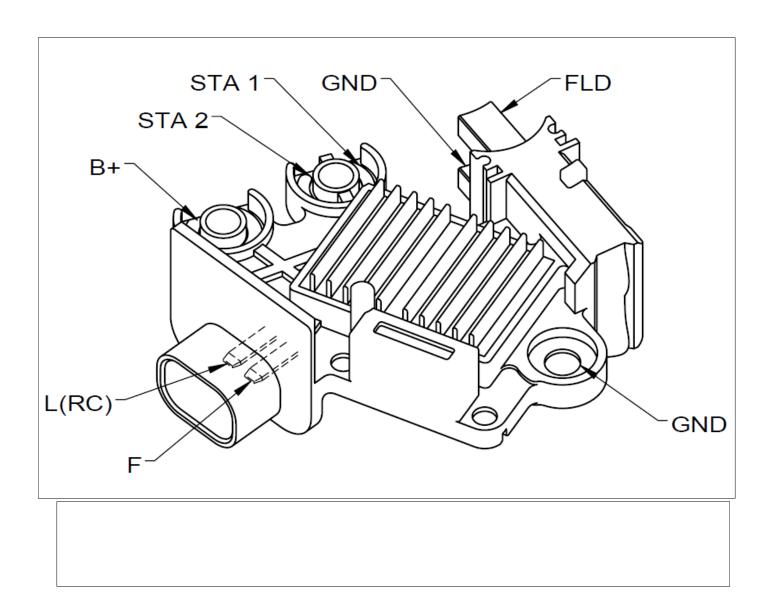
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect RVC terminal of M608 to RCV terminal on tester:

Adjust Comm Voltage switch to position 14, Setpoint is 13.2V.

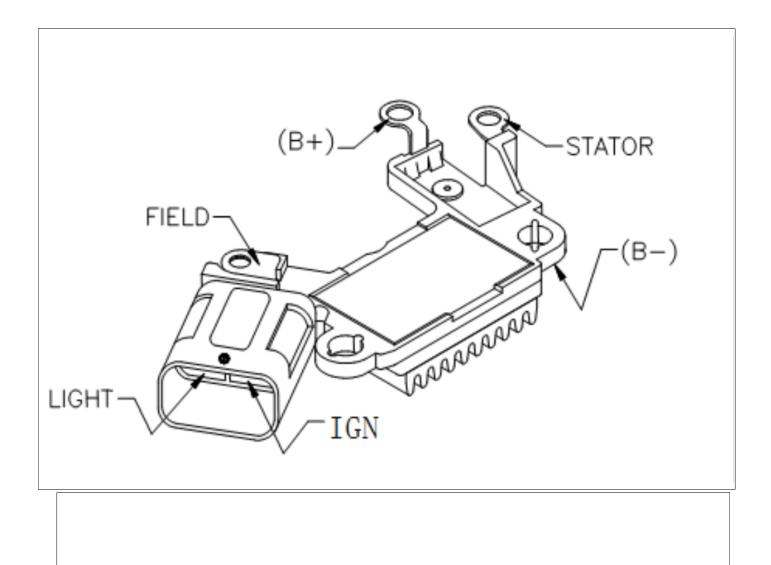
Adjust Comm Voltage switch to position 15, Setpoint is 14.5V.



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		for	HITACHI	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IH765-24	Α	24	28.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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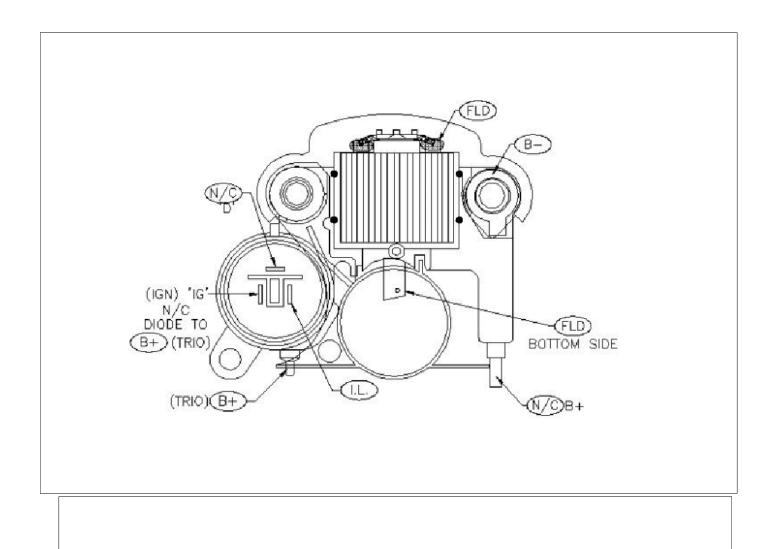
MITSUBISHI

for

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM275-WC	Α	12	14.5				

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



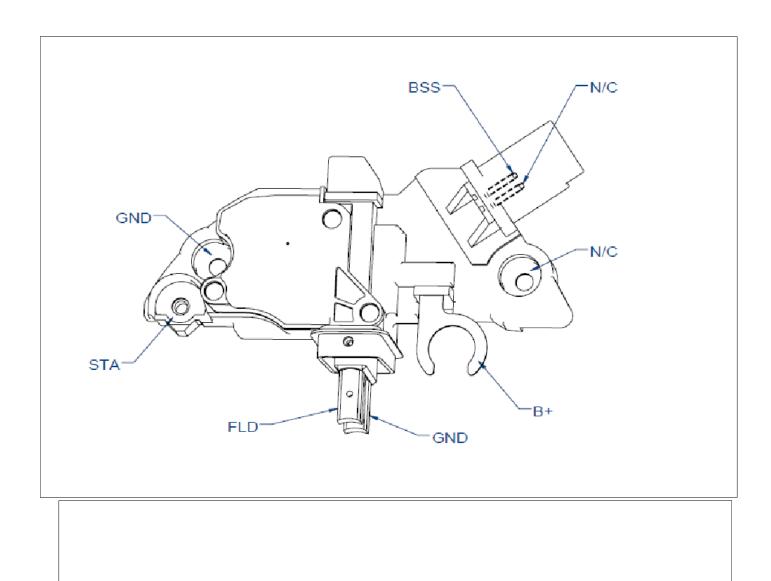
Page 761 Product Group Revision: Date: <u>1/6/2021</u>

		for	воѕсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB5290	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



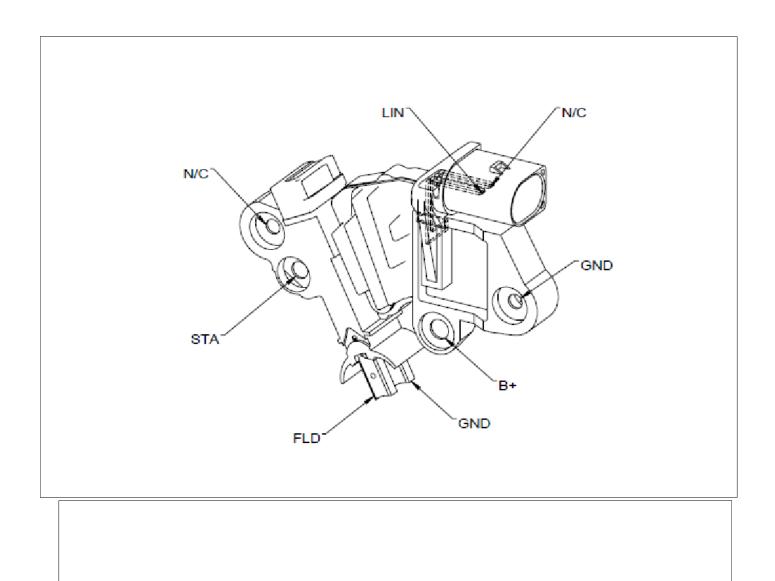
Page 762 Product Group Revision: Date : <u>1/6/2021</u>

		for	возсн	type regulato	rs		
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IB6020	В	12	14.4				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

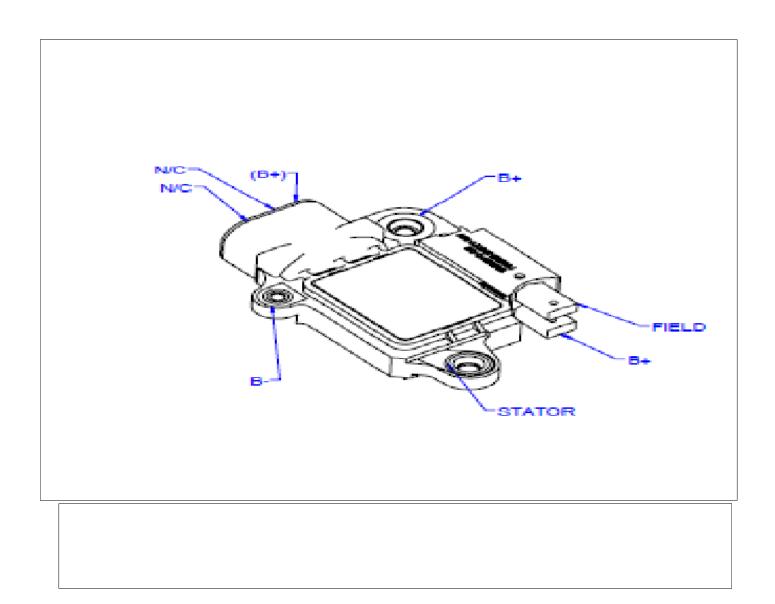
Connect terminal to BSS of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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		for	FORD	type regulators			
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
F789SE	Α	12	14.45				

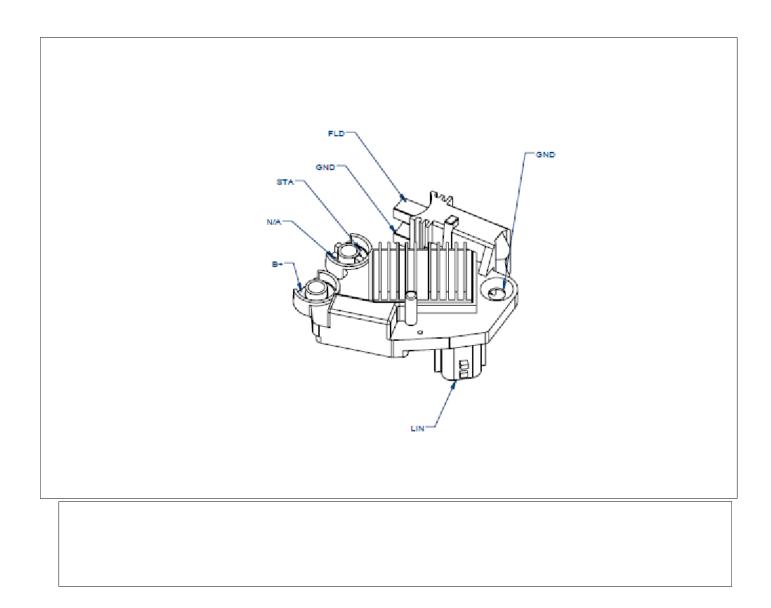
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for	воѕсн	type regulators					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT		
M652	В	12	14.4						

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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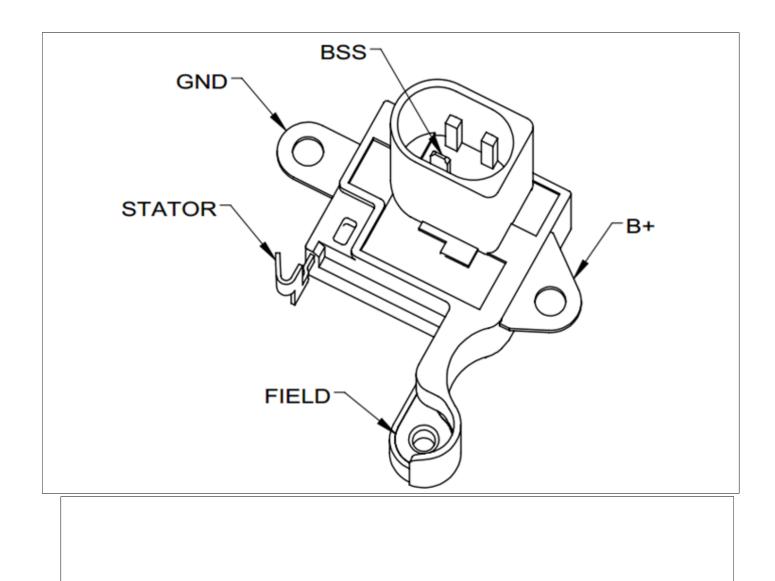
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN7720	В	12	14.2				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to BSS of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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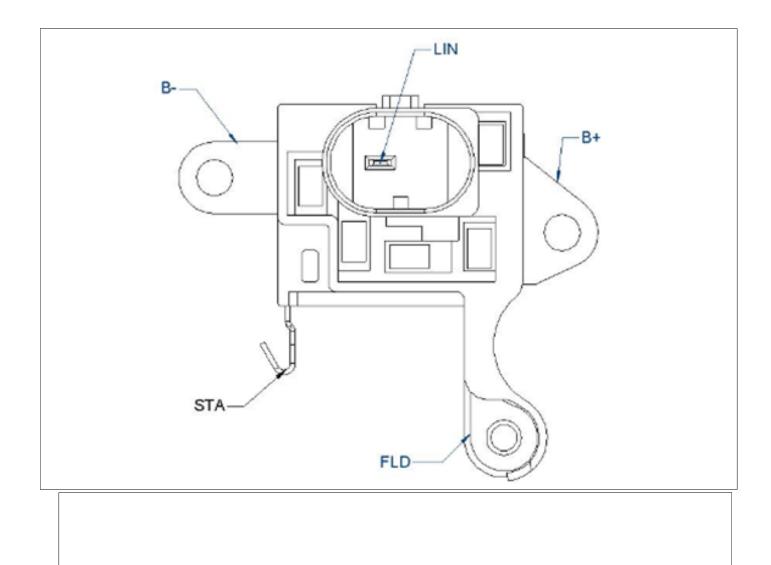
for NIPPONDENSO type regulators

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN7541	В	12	14.3				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is +/-0.2V.



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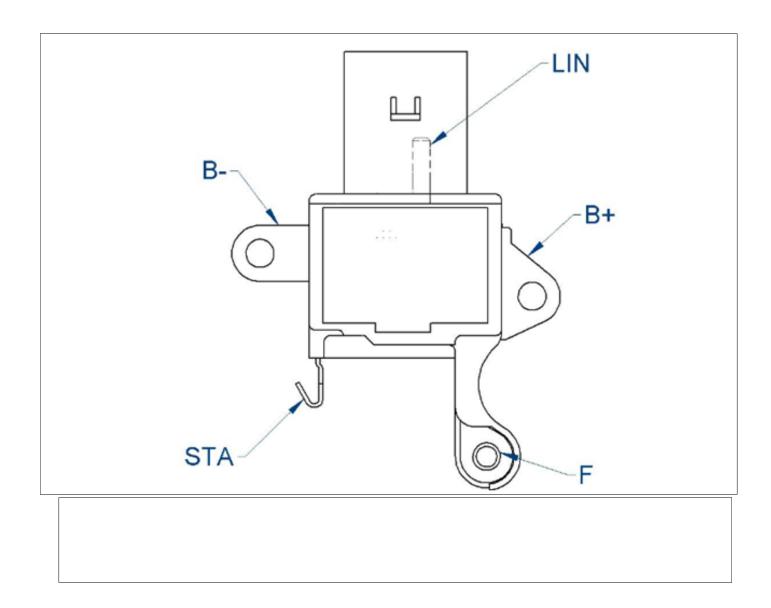
NIPPONDENSO

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is $\pm -0.2V$



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NIPPONDENSO

 PART NO.
 FLD
 VOLT
 SET POINT
 PART NO.
 FLD
 VOLT
 SET POINT

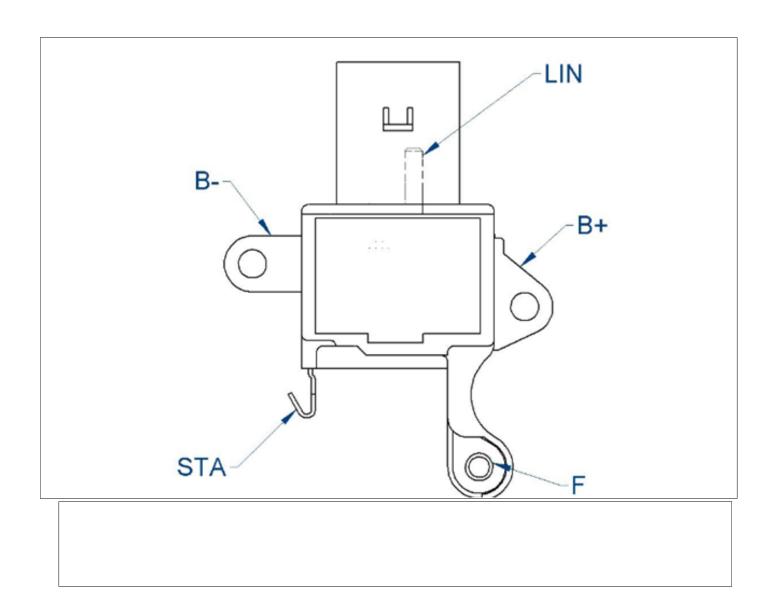
 IN8150
 B
 12
 13.7
 Image: Control of the part of the p

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.

3. Amendments or Additional Tests:

Connect terminal to LIN of VRC2010, the Set Point is adjustable and goes with the switch "Comm Voltage" to 13V, 14V or 15V, range is $\pm -0.2V$



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type regulators

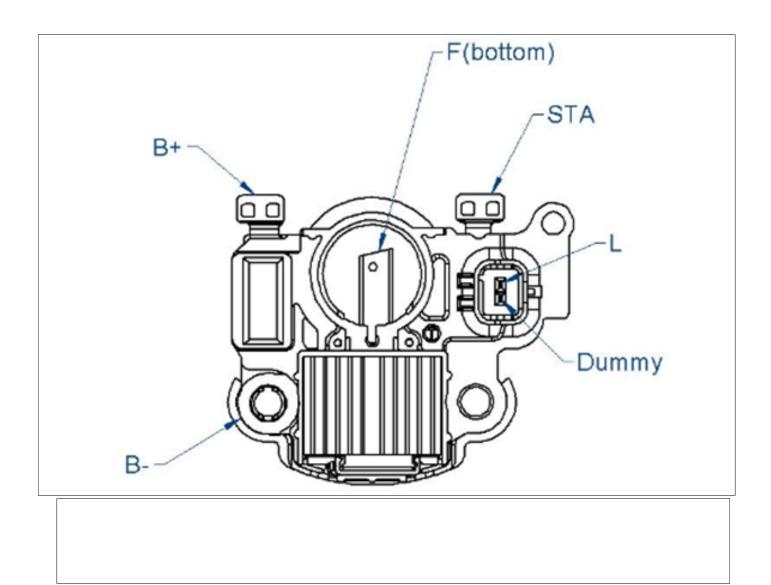
MITSUBISHI

PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IM491	Α	12	14.6				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Disconnect the Stator terminal and the Lamp should turn on.

for



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NIPPONDENSO

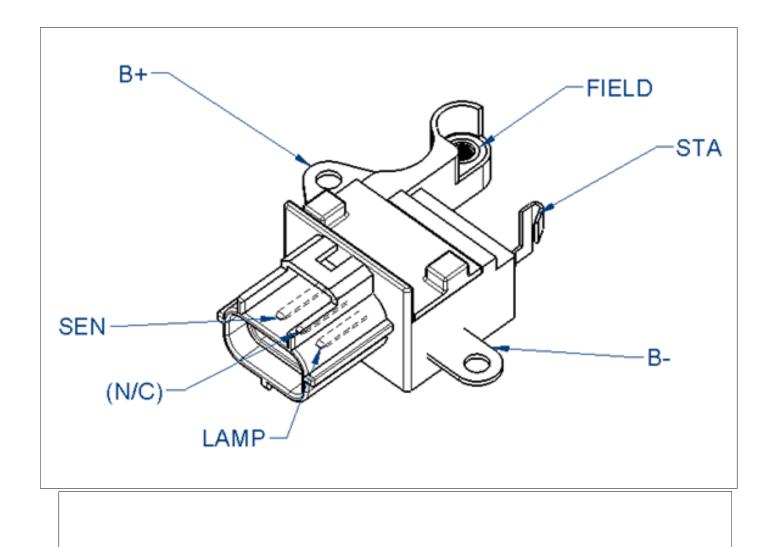
PART NO. FLD VOLT SET POINT PART NO. FLD VOLT **SET POINT**

type regulators

IN6601-MTP	В	12	14.45		

- 1. POWER OFF: Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- Tester field lamp should blink and tester meter should indicate the approximiate Set Point 2. POWER ON: Voltage noted in the table above.
- 3. Amendments or Additional Tests:

Reconnect the Sense terminal and the Lamp should turn on; Reconnect the Stator terminal and the Lamp should turn on.



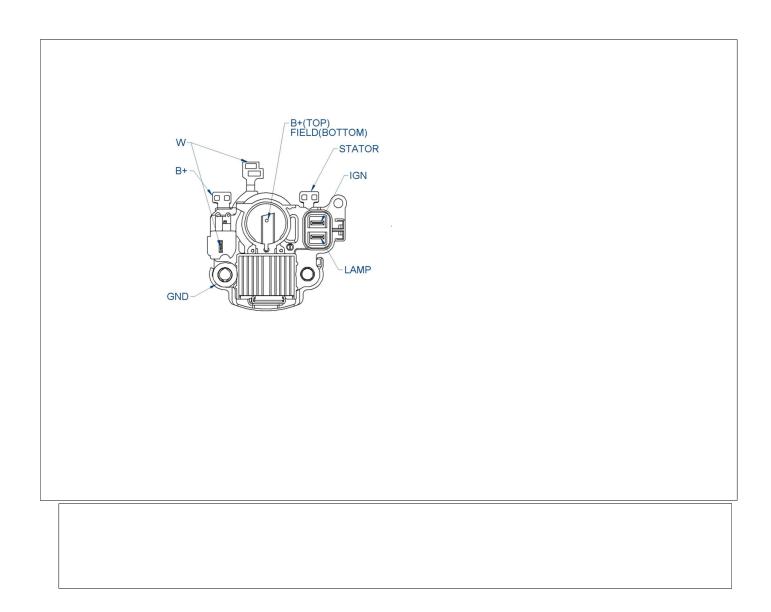
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MITSUBISHI

type regulators

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:

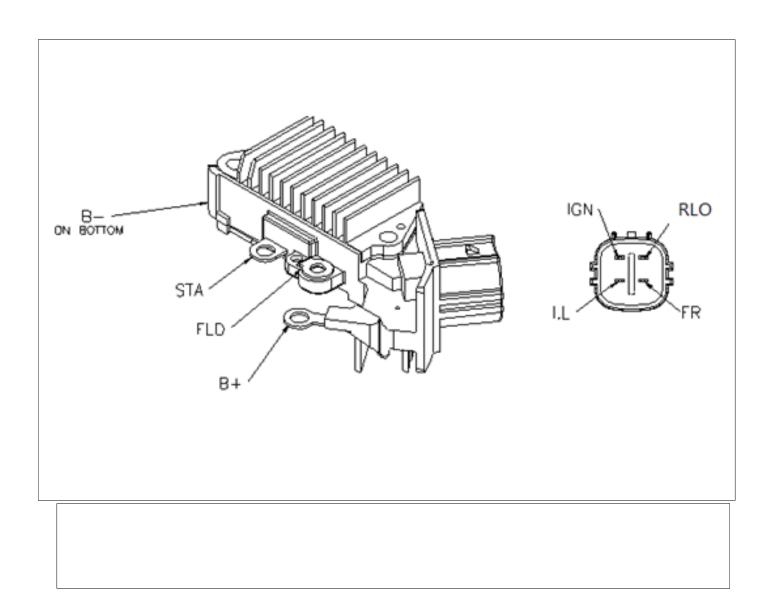
Disconnect IGN terminal or Stator terminal and the Lamp should turn on.



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		for	Transpo	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IN338	В	12	14.2					

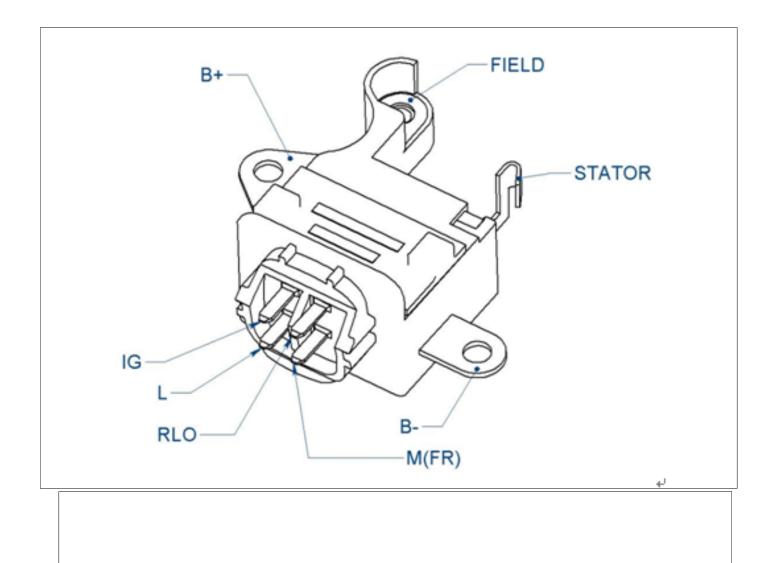
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		tor	Transpo	type regulators				
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT	
IN3191	В	12	14.26					

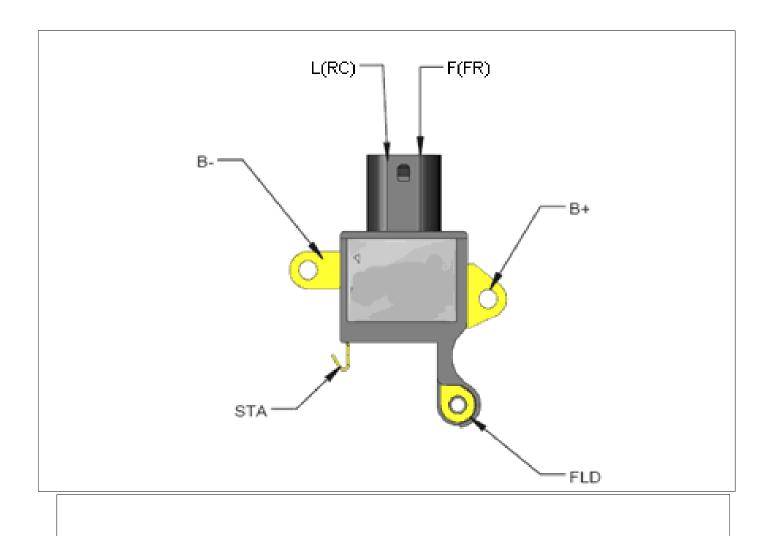
- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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		for					
PART NO.	FLD	VOLT	SET POINT	PART NO.	FLD	VOLT	SET POINT
IN4910	В	12	13.8				

- **1. POWER OFF:** Set 'FLD' switch and 'Voltage Range' switch to compatible setting. Connect the Voltage Regulator as indicated in the diagram or as described in the 'Amendments or Additional Test' notes.
- **2. POWER ON:** Tester field lamp should blink and tester meter should indicate the approximiate Set Point Voltage noted in the table above.
- 3. Amendments or Additional Tests:



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