

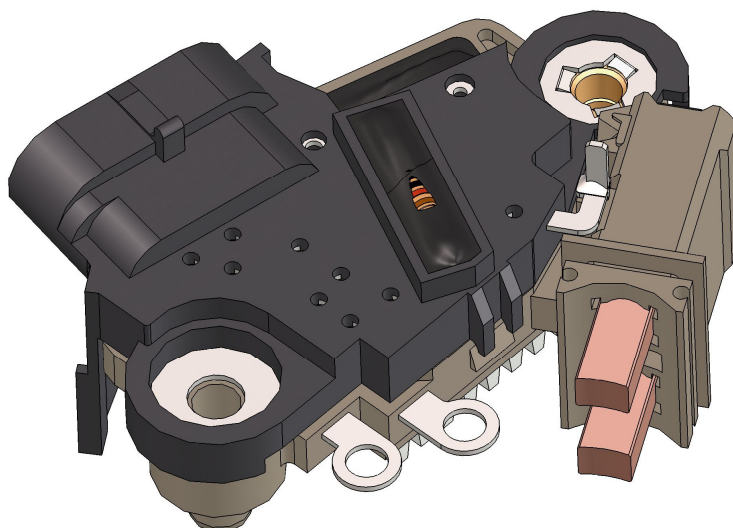
PRODUCT DATA SHEET**M530**

Figure 1

REVISIONS				
REV	ECO #	DESCRIPTION	DATE	APPVD
0	N/A	Initial Release (CQ 5/07/12)	5/07/12	GM

	ORIGINATOR	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	MARKETING	APPROVED ENGINEERING
NAME	CQ		FL		GM
DATE	5/07/12		5/09/12		5/09/12

VALEO REPLACEMENT REGULATOR

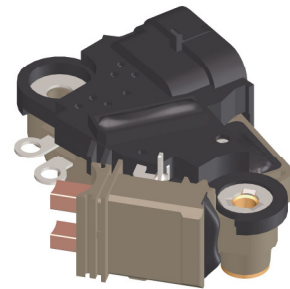
The M530 functions to keep the battery at full charge, by maintaining the proper output of the alternator under changing load conditions and varying speeds.

KEY FEATURES

- "B" circuit, High side drive regulator.
- Voltage Setpoint is 14.5 Volts.
- The Field rating for this regulator is 5 Amps.
- Lamp and Choke.
- Ignition light activated.
- Stator Start
- Variable rate LRC (Charge Progressive)
- OE Compliant Soft Start
- External Sense
- S-FR-L Terminals
- With FR Resistor

M530

TRANSPO REGULATOR



1.0 MECHANICAL CHARACTERISTICS

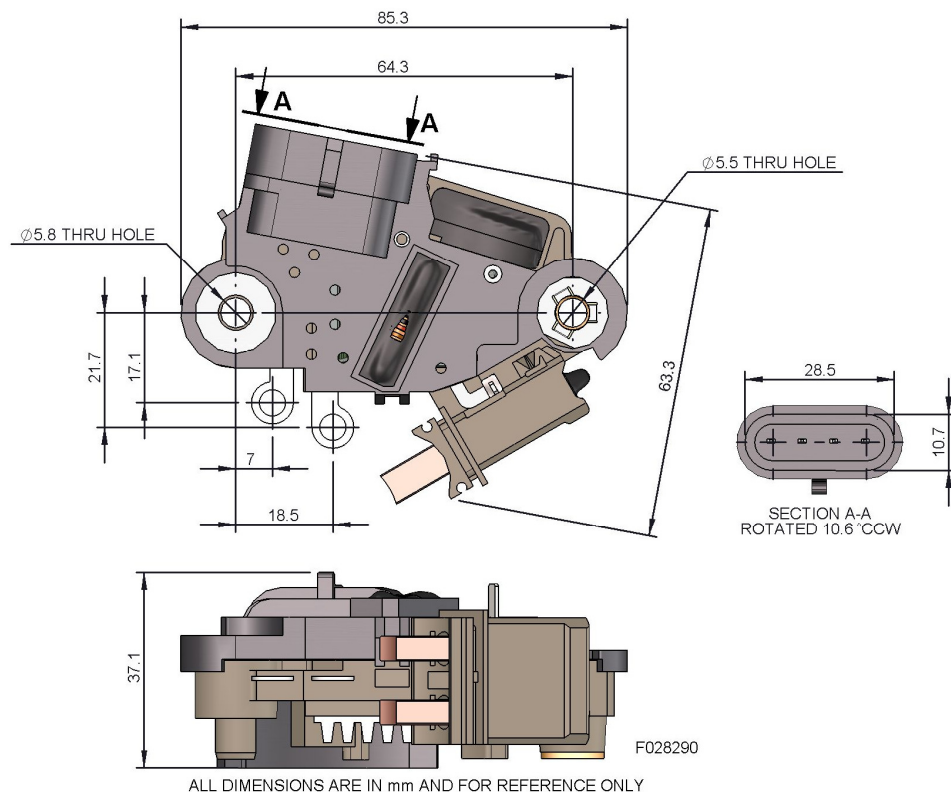


Figure 2



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SHEET 1 OF 2
PD1613 5/25/2012

2.0 Pinouts

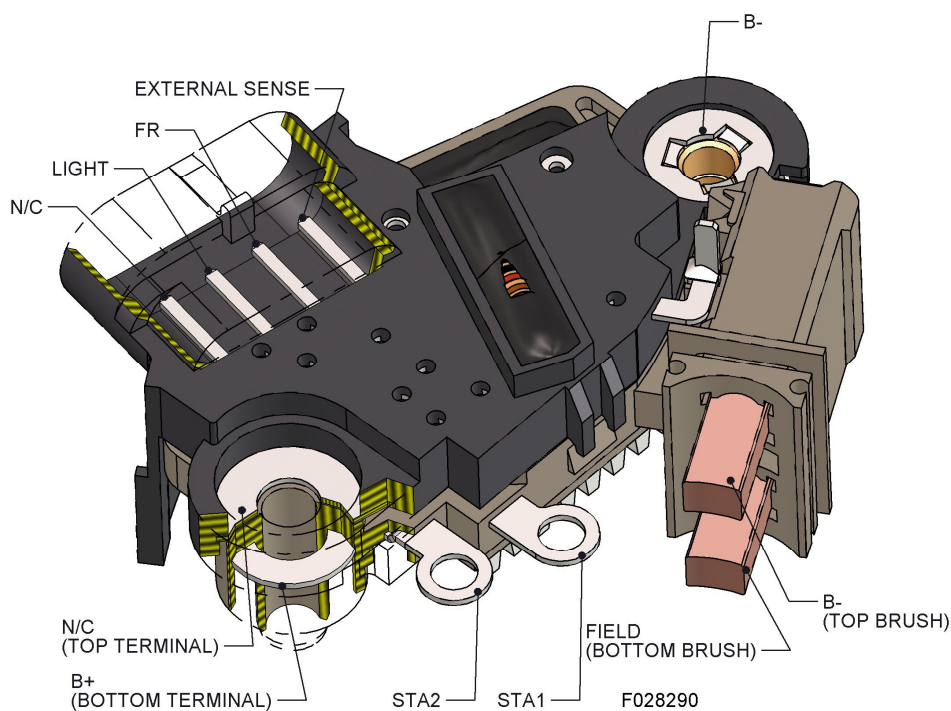


Figure 3

3.0 Summary

PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T_{OP}	-40	---	125	°C
Field	I_F	---	---	5	A
Voltage Set Point (4000 RPM with no load)	V_{SET}	14.3	14.5	14.7	V
Frequency (4000 RPM)	F_S	---	122	---	HZ
Regulation vs. Speed (5000 to 2000 RPM with no load)	V_{SPD}	---	-0.1	-0.2	V
Regulation vs. Load (6000 RPM with no load to 90% full load)	V_{LOAD}	---	-0.15	-0.3	V
Saturation Voltage @ 5A	V_{SAT}	---	0.5	0.75	V
Standby Current Drain (Key off, $V_{BAT} = 12V$)	I_D	---	1	3	mA
Temperature Coefficient	T.C.	---	10	---	mV/°C



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SHEET 2 OF 2
PD1613 5/25/2012