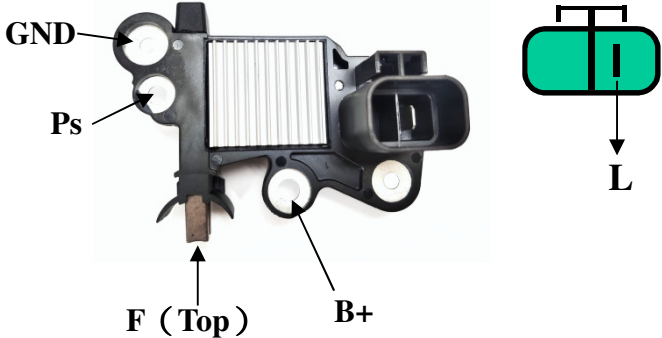


NAME	VR – B732 Electrical Specification	NO	VR-1-1-2470
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<p>Regulation System Connection Wire Diagram</p> 	<p>System Regulator Type:</p> <ul style="list-style-type: none"> ● Voltage Set Point :14.3V ● Regulation : B – Circuit ● Active Lamp ● Soft Start , 2.5sec LRC ● Short Circuit Protection
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PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T_{OP}	-30	---	125	℃
Field	I_F	---	5	---	A
Voltage Set Point (2500 RPM, at 20A load)	V_{SET}	14.1	14.3	14.5	V
Secondary Set Point (2500 RPM ,at 20A load)	V_{SET2}	---	---	---	V
Computer Set Point	V_{SEC}	---	---	---	V
Speed Regulation (2000 RPM to 6000 RPM ,at load = 15A)	V_{SR}	---	-0.1	-0.3	V
Load Regulation (10% to 95% ,at Speed = 6000 RPM)	V_{LR}	---	-0.4	-0.5	V
Saturation Voltage @ 5A, 12Volts	V_{SAT}	---	0.6	0.8	V
Standby Current (Key off, $V_{BAT} = 12.6V$)	I_{SB}	---	---	2.0	mA
Temperature Coefficient	T_C	-6	-3	--	mV/ ℃
Over voltage Indication	V_{OV}	---	---	---	V
Under voltage Indication	V_{UV}	---	---	---	V
Soft-Start Duty	D_{SS}	10	25	40	%
LRC Delay Time	T_{LRC}	1.5	2.5	3.5	Sec
Cut-in Speed	R_{CIS}	---	---	1200	RPM

Safety Characteristics:

- **Over voltage :** $V_s = 24 V$, 60 sec. from the ignition SW. is turned ON/OFF without failure.
- **Short Circuit Protection :** The regulator shall stand **short circuit on Field and Lamp** without failure and return normal operation within 2 seconds once short condition is removed.
- **Repetitive Thermal Shock :** The Regulator shall be designed to withstand 500 cycles of -30℃ to 125℃ in 20 minutes and 125℃ to -30℃ in 20 minutes.
- **High Temperature Test :** The regulator shall be designed to operate reliably at the load from 80% to 100% of the alternator rated current and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125℃.

2024.04.15		1	賴佑昇	柯文彬	林勝雄	林勝雄		
DATE OF FIRST EDITION	DATE OF REVISED EDITION	EDITION	MANU-SCRIPT	ORI-GINAL REVIEW	SECOND REVIEW	APP-ROVAL	ISSUED MARK	COPY'S NUMBER