Regulation System Connection Wire Diagram



Regulator Features:

- Regulation : B Circuit
- Standby mode
- Leakage current control
- Default mode
- LIN (COM) mode
- 9600 & 19200 Baud Rate (4byte)
- Variable Voltage setting
- Field out duty monitor
- Temperature & Field current

PARAMETERS AND CONDITIONS	SPEC	Min.	Type Max.		SYMBOLS
Operating Temperature	Operating Temperature	-30		125	ొ
Switch OFF Leakage Current	Ps < 800rpm, BSS = Low, B+=12.0V			mA	
	Default Mode	14.10	14.30	14.50	v
Regulator Set Point	Defined by external ECU/BSS command.	10.6		16.0	v
Output Saturation Voltage	I F = 5A			v	
Field Current Limit	F shorted to ground	10	10		A
Field Control Frequency	10% < duty cycle < 95%	180	180 200 220		Hz
Error Display High Temp. Protection Threshold on board(substrate)	Field output OFF		160		℃
Self Drive Initiation rpm Threshold	Safe mode Frequency given according to the programmed number of generator poles	2550	3000	3450	rpm

Safety Characteristics:

- Over voltage: Vs = 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 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°C to 125°C in $\hat{2}0$ minutes and 125° C to -30° C in $\hat{2}0$ 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°C.

2024.08.06		1	王毅賢	柯文彬	林勝雄	林勝雄		
	DATE OF REVISED EDITION	FDITION	MANU- SCRIPT			APP- ROVAL	ISSUED MARK	COPY'S NUMBER

[CBP-020012]