Regulation System Connection Wire Diagram GND F(Bottom)

Regulator Features:

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

Parameters and conditions	Specification	Min.	Туре	Max.	SYMBOLS
Operating Temperature	Operating Temperature	-30		125	°C
Switch OFF Leakage Current	Ps < 800rpm , LIN= Low , B+=12.0V			2	mA
Regulator Set Point	Default Mode	14.0	14.2	14.4	V
	Defined by external ECU/LIN command.	10.6		16	V
Output Saturation Voltage	If = 5A			0.8	V
Field Current Limit	F shorted to ground	10			A
Field Control Frequency	10% < duty cycle < 95%	170	200	230	Hz
Error Display High Temp. Protection Threshold on board(substrate)	Field output OFF		160		င
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 $\hat{20}$ minutes and 125° C to -30° C in $\hat{20}$ 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 °C.

2024.07.30		1	賴佑昇	柯文彬	林勝雄	林勝雄		
DATE OF FIRST EDITION	REVISED	EDITION	SCRIPT		SECOND REVIEW	APP- ROVAL	ISSUED MARK	COPY'S NUMBER