

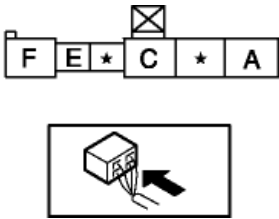
2012 - Mazda6 - HVAC

FRONT POWER METAL OXIDE SEMI CONDUCTOR FIELD EFFECT TRANSISTOR (POWER MOS FET) INSPECTION [FULL-AUTO AIR CONDITIONER]

1. Remove the front power MOS FET. (See FRONT POWER METAL OXIDE SEMI CONDUCTOR FIELD EFFECT TRANSISTOR (POWER MOS FET) REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].)
2. Connect the front power MOS FET connector.
3. Connect the negative (-) lead of the tester to body ground.
4. Switch the ignition to ON.
5. By inserting the positive (+) lead of the tester into each front power MOS FET terminal, measure the voltage according to the terminal voltage table.
- If there is any malfunction, inspect the parts under "Inspection item (s)".

If the parts under "Inspection item (s)" are found to be normal, replace the front power MOS FET.

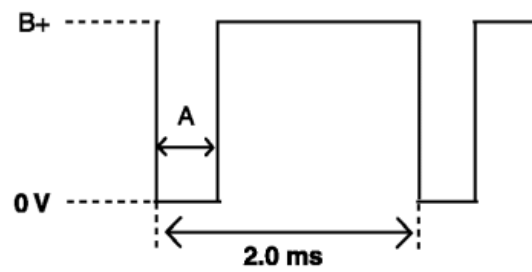
Terminal Voltage Table (Reference)



Terminal	Signal name	Connected to	Measurement condition	Voltage (V)	Inspection item (s)
A	Motor operation	Front blower motor	Switch the ignition to ON	B+	• Related wiring harness • Front blower motor
			Switch the ignition to off	1.0 or less	
B	—	—	—	—	—
C	Power supply	Blower relay	Switch the ignition to ON	B+	• Related wiring harness • Blower relay
			Switch the ignition to off	1.0 or less	
D	—	—	—	—	—
E	Blower fan speed	Climate control unit	Fan speed: 1—7	Pulse*	• Related wiring harness • Climate control unit
F	GND	Ground	Under any condition	1.0 or less	• Related wiring harness

*
Refer to climate control unit terminal 1I (figure 1).

FIGURE 1



FAN SPEED	A (ms)
1	1.443
2	1.216
3	1.004
4	0.792
5	0.565
6	0.345
7	0.000

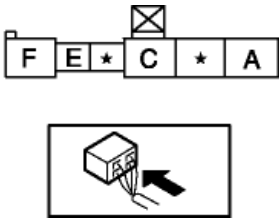
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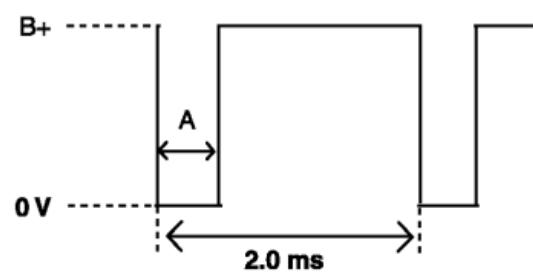
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