

2003 Mazda 6 V6-3.0L DOHC

Vehicle Level → Heating and Air Conditioning → Air Door → Air Door Actuator / Motor → Testing and Inspection → Airflow Mode Actuator ←

Airflow Mode Actuator

AIRFLOW MODE ACTUATOR INSPECTION

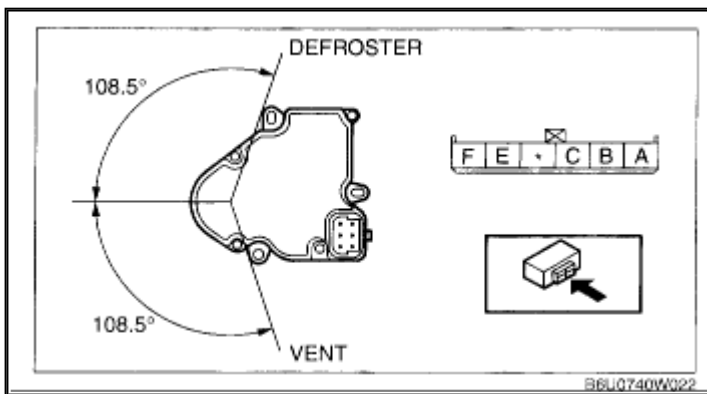
Full-auto Air Conditioner

1. Connect battery positive voltage to terminal E or F and ground to terminal F or E of the airflow mode actuator.

Connection		Movement
B+	GND	
E	F	VENT → DEFROSTER
F	E	DEFROSTER → VENT

Zoom

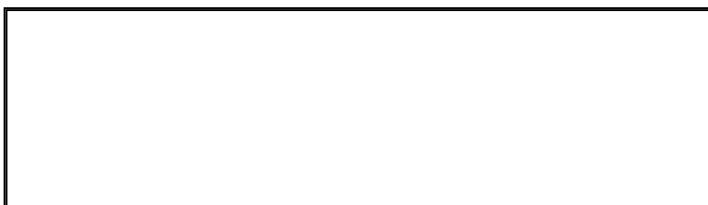
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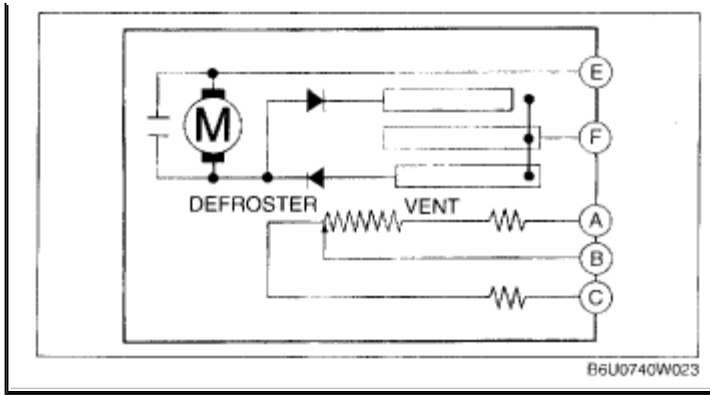


Zoom

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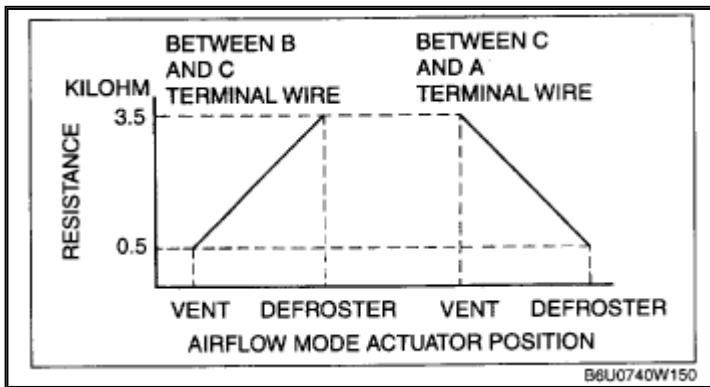
2. Verify that the airflow mode actuator operates as shown.
 - If not as specified, replace the airflow mode actuator.





Zoom

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Zoom

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3. Verify that the resistance between the terminals of the airflow mode actuator is as shown in the graph.

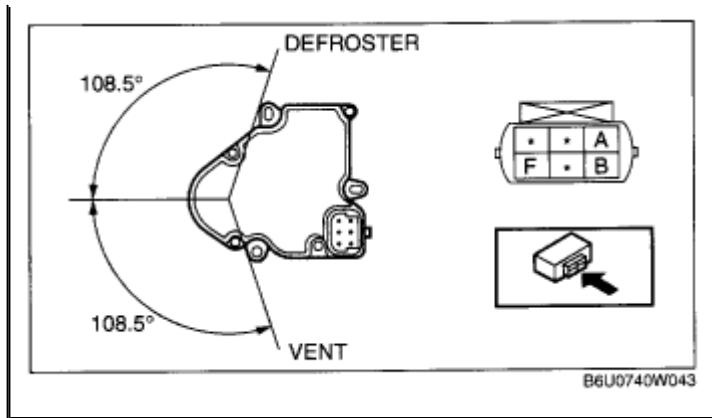
- If not as specified, replace the airflow mode actuator.

Manual Air Conditioner

Operating inspection

1. Turn the fan switch to OFF.
2. Turn the mode dial to VENT.
3. Turn the ignition switch to ON position, (engine ON)
4. Turn the fan switch 4th position.
5. Turn the mode dial from VENT to DEFROSTER.





Zoom

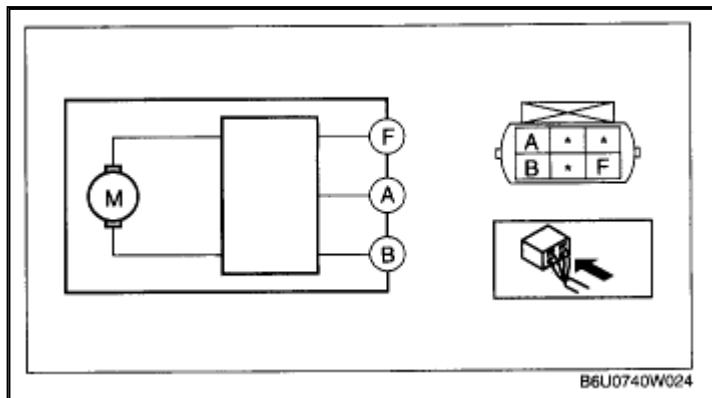
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6. Verify that the airflow mode actuator moves smoothly.

- If not as specified, inspect the airflow mode main link and sub link for clogging and deformity.
- If the actuator cannot move at all, go to voltage inspection.

Voltage inspection

1. Disconnect the airflow mode actuator connector.
2. Turn the ignition switch to ON position, (engine OFF)



Zoom

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Mode dial position	Terminal	Voltage (V)
-	B—GND	0
-	B—F	B+
VENT	A—F	0
BI-LEVEL		3
HEAT		6
HEAT/DEF		9
DEFROSTER		12

Zoom

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3. Verify that the voltage between the terminals of airflow mode actuator (harness-side) is as shown in the table.
 - If not as specified, perform the harness inspection and mode switch inspection. (See CLIMATE CONTROL UNIT INSPECTION, Manual Air Conditioner.)
 - If as specified, replace the airflow mode actuator.

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