

## A/C OPERATION CHECK MODE [FULL-AUTO AIR CONDITIONER]

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- The A/C operation check mode forcibly operates the output devices as shown in the operation check table regardless of the signals input to the climate control unit.
- During an A/C operation check mode operation, indication in the display panel and the illumination of the indicator light on the switches are automatically controlled.
- Determine the malfunctioning part by visual inspection, listening to the operation sound, placing a hand on the air vents, or checking that each transition is as indicated in the operation check table.

M-MDS display	Target part	Reference
Air Mix Actuator	• Air mix actuator • Air mix door	(See Air Mix Actuator)
Air conditioning compressor	• A/C compressor	(See A/C Compressor)
Air Intake Actuator	• Air intake actuator • Air intake door	(See Air Intake Actuator)
Blower Motor Speed	• Blower motor	(See Blower Motor)
Air Flow Mode Actuator	• Airflow mode actuator • Airflow mode door	(See Airflow Mode Actuator)
Illumination of All Indicator Lights	• Climate control unit	(See Indicator Light)
Electrical Water Pump	• Water pump*	(See Water Pump)

\* : With water pump



### Air Mix Actuator

1. Connect the M-MDS to the DLC-2.
2. Switch the ignition to ON.
3. Start the engine.
4. After the vehicle is identified, select the following items from the initial screen of the M-MDS.
  - (1) Select the "Body".
  - (2) Select the "EATC Operation Check".
5. Select the "Air Mix Actuator" from the screen menu.
6. Verify the A/C operation check mode according to the directions on the screen.
7. Select "Stop" to stop the A/C operation check. (See A/C Operation Check Stop.)

### Operation

Step	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
1	0 %	VENT	5th	ON	FRESH
2	100 %				

### Display

Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
1	20.0 {68}			Displayed	Not illuminated	Illuminated
2	21.0 {70}					

### Note

- After approx. 22 s have elapsed the operation step moves to the next step.
- When the last step is finished, the operation is repeated from Step 1.
- To prevent super-cooling, the magnetic clutch turns off despite the A/C forced override.



### A/C Compressor

1. Connect the M-MDS to the DLC-2.
2. Switch the ignition to ON.
3. Start the engine.
4. After the vehicle is identified, select the following items from the initial screen of the M-MDS.
  - (1) Select the "Body".
  - (2) Select the "EATC Operation Check".
5. Select the "Air conditioning compressor" from the screen menu.
6. Verify the A/C operation check mode according to the directions on the screen.
7. Select "Stop" to stop the A/C operation check. (See A/C Operation Check Stop.)

### Operation

Step	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
1	0 %	VENT	5th	ON	FRESH
2				OFF	

### Display

Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
1	4 {39}			Displayed	Not illuminated	Illuminated
2				Not displayed		

### Note

- After the following times have elapsed, the operation step moves to the next step.
  - Step 1: Approx. 5 s
  - Step 2: Approx. 25 s
- When the last step is finished, the operation is repeated from Step 1.



### Air Intake Actuator

1. Connect the M-MDS to the DLC-2.
2. Switch the ignition to ON.
3. Start the engine.
4. After the vehicle is identified, select the following items from the initial screen of the M-MDS.
  - (1) Select the "Body".
  - (2) Select the "EATC Operation Check".
5. Select the "Air Intake Actuator" from the screen menu.
6. Verify the A/C operation check mode according to the directions on the screen.
7. Select "Stop" to stop the A/C operation check. (See A/C Operation Check Stop.)

### Operation

Step	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
1	0 %	VENT	5th	ON	FRESH
2					RECIRCULATE
3				OFF	FRESH
4					RECIRCULATE

### Display

Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
1	4 {39}			Displayed	Not illuminated	Illuminated
2					Illuminated	Not illuminated
3				Not displayed	Not illuminated	Illuminated
4					Illuminated	Not illuminated

### Note

- After approx. 11 s have elapsed the operation step moves to the next step.
- When the last step is finished, the operation is repeated from Step 1.
- To prevent super-cooling, the magnetic clutch turns off despite the A/C forced override.

### Blower Motor


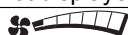



1. Connect the M-MDS to the DLC-2.
2. Switch the ignition to ON.
3. Start the engine.

4. After the vehicle is identified, select the following items from the initial screen of the M-MDS.
  - (1) Select the "Body".
  - (2) Select the "EATC Operation Check".
5. Select the "Blower Motor Speed" from the screen menu.
6. Verify the A/C operation check mode according to the directions on the screen.
7. Select "Stop" to stop the A/C operation check. (See A/C Operation Check Stop.)

#### Operation

Operation					
Step	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
1	50 %	VENT	OFF	OFF	FRESH
2			1st	ON	
3			3rd		
4			5th		
5			7th		

#### Display

Display						
Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
1	1 {34}		Not displayed	Not displayed	Not illuminated	Illuminated
2				Displayed		
3						
4						
5						

#### Note

- After approx. 4 s have elapsed the operation step moves to the next step.
- When the last step is finished, the operation is repeated from Step 1.
- To prevent super-cooling, the magnetic clutch turns off despite the A/C forced override.







#### Airflow Mode Actuator

1. Connect the M-MDS to the DLC-2.
2. Switch the ignition to ON.
3. Start the engine.
4. After the vehicle is identified, select the following items from the initial screen of the M-MDS.
  - (1) Select the "Body".
  - (2) Select the "EATC Operation Check".
5. Select the "Airflow Mode Actuator" from the screen menu.
6. Verify the A/C operation check mode according to the directions on the screen.
7. Select "Stop" to stop the A/C operation check. (See A/C Operation Check Stop.)

#### Operation

Step	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
1	50 %	VENT	5th	ON	FRESH
2		BI-LEVEL			
3		HEAT			
4		DEF/HEAT			
5		DEFROSTER			

#### Display

Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
1	3 {37}			Displayed	Not illuminated	Illuminated
2						
3						
4						
5						

### Note

- After approx. 11 s have elapsed the operation step moves to the next step.
- When the last step is finished, the operation is repeated from Step 1.
- To prevent super-cooling, the magnetic clutch turns off despite the A/C forced override.

### Indicator Light

1. Connect the M-MDS to the DLC-2.
2. Switch the ignition ON (engine off).
3. After the vehicle is identified, select the following items from the initial screen of the M-MDS.
  - (1) Select the "Body".
  - (2) Select the "EATC Operation Check".
4. Select the "Illumination Of All Indicator Lights" from the screen menu.
5. Verify the A/C operation check mode according to the directions on the screen.
6. Select "Stop" to stop the A/C operation check. (See A/C Operation Check Stop.)

### Operation

Step	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
—	50 %	VENT	OFF	OFF	FRESH

### Display

Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
—	All indicator displayed				Illuminated	Illuminated


### Water Pump

1. Connect the M-MDS to the DLC-2.
2. Switch the ignition ON (engine off).
3. After the vehicle is identified, select the following items from the initial screen of the M-MDS.
  - (1) Select the "Body".
  - (2) Select the "EATC Operation Check".
4. Select the "Electrical Water Pump" from the screen menu.
5. Verify the A/C operation check mode according to the directions on the screen.
6. Select "Stop" to stop the A/C operation check. (See A/C Operation Check Stop.)

### Operation

Step	Water pump	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
—	ON	50 %	VENT	OFF	OFF	FRESH

### Display

Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
—	10 {50}		Not displayed	Not displayed	Not illuminated	Illuminated


### A/C Operation Check Stop

1. If "Stop" is selected while the A/C operation check is operating, the A/C stops at the conditions shown in the table.

### Operation

Step	Water pump (with water pump)	Air mix actuator	Airflow mode actuator	Blower speed	Magnet clutch	Air intake actuator
—	OFF	50 %	VENT	OFF	OFF	FRESH

**Display**

Step	Temperature (°C {°F})	Airflow mode	Blower volume	A/C	Recirculate switch indicator light	Fresh switch indicator light
—	0 {32}		Not displayed	Not displayed	Not illuminated	Illuminated