

Your Ultimate Source for OEM Repair Manuals

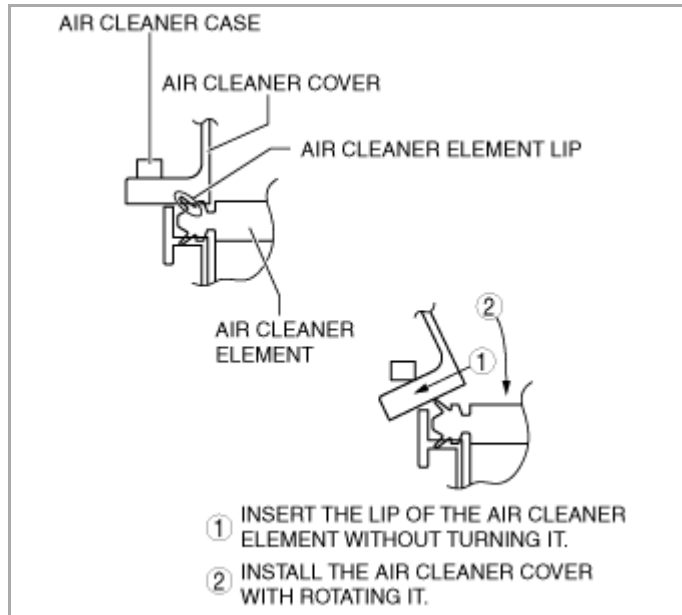
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2007 MAZDA 2 OEM Service and Repair Workshop Manual

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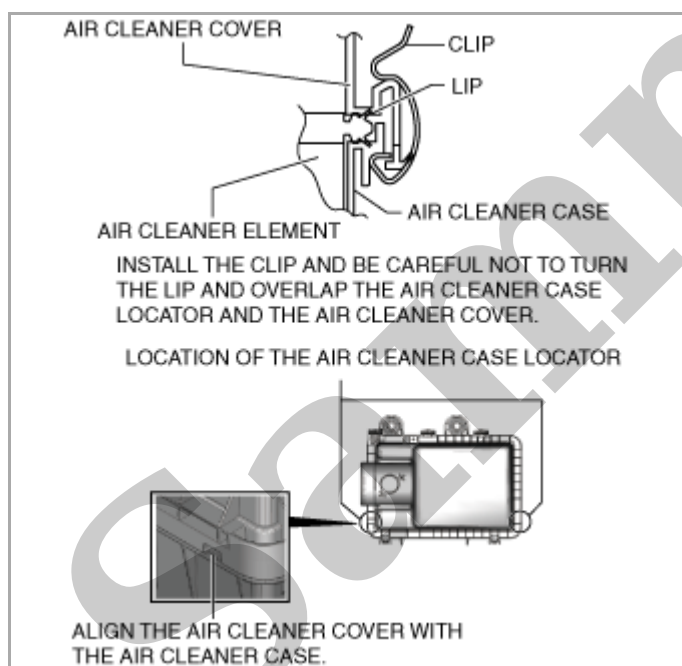
| | |
|----|------------------------------------|
| 8 | Wastegate valve actuator connector |
| 9 | Insulator No.2 |
| 10 | Vacuum hose No.1 |
| 11 | Vacuum hose No.2 |
| 12 | Vacuum pipe |
| 13 | Water pipe No.1 |
| 14 | Insulator No.3 |
| 15 | Air hose |
| 16 | Bracket |
| 17 | Water pipe No.2 |
| 18 | Insulator No.4 |
| 19 | Oil pipe No.3 |
| 20 | Oil hose |
| 21 | Oil pipe No.2 |

Sample



ac5wzw00005692

2. Secure the air cleaner cover and the air cleaner case with the clip.



ac5wzw00010720

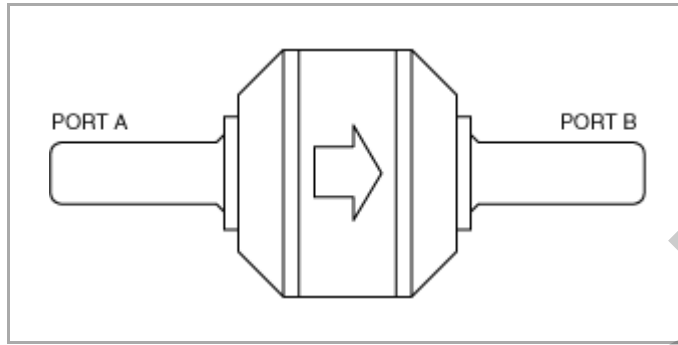
CHECK VALVE (INTAKE-AIR SYSTEM) INSPECTION [SKYACTIV-G 2.5T]

SM2897374

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1. Verify that there is airflow through port B when pressure is applied from port A.

- If there is no airflow, replace the check valve. (See [CHECK VALVE \(INTAKE-AIR SYSTEM\) REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\]](#).)



ac9uuw00009511

2. Verify that there is no airflow through port A when pressure is applied from port B.

- If there is airflow, replace the check valve. (See [CHECK VALVE \(INTAKE-AIR SYSTEM\) REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\]](#).)

SWIRL CONTROL VALVE ACTUATOR REMOVAL/INSTALLATION [SKYACTIV-G (WITH EGR COOLER)]

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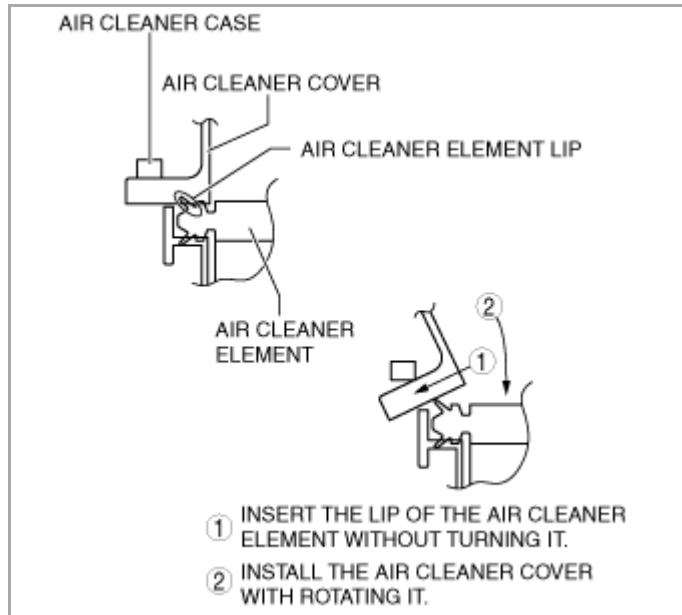
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Note

- The swirl control valve actuator cannot be removed as a single unit. When replacing the swirl control valve actuator, replace it together with the intake manifold as a single unit.

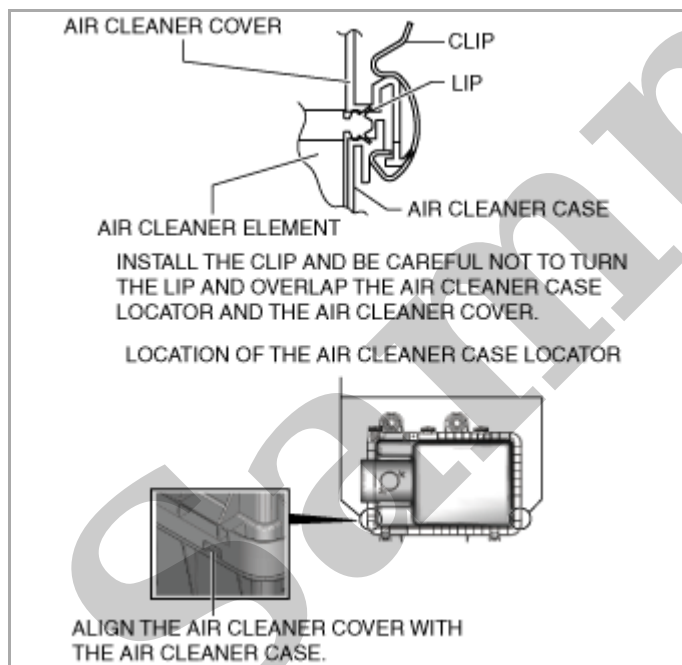
1.Remove the intake manifold. (See [ENGINE DISASSEMBLY/ASSEMBLY \[SKYACTIV-G \(WITH EGR COOLER\)\]](#))

Sample



ac5wzw00005692

2. Secure the air cleaner cover and the air cleaner case with the clip.



ac5wzw00010721

INTAKE MANIFOLD VACUUM INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]

SM2897392

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1. Disconnect the evaporative hose No.1 (purge solenoid valve side) and install the vacuum gauge. (See [PURGE SOLENOID VALVE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)

2. Verify that the intake air hoses are installed securely.

3. Warm up the engine.

4. Measure the intake manifold vacuum while idling (no load) using the vacuum gauge.

- If not within the specification, perform the following inspections.

- Compression pressure (See [COMPRESSION INSPECTION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)
- Check valve (between intake manifold and vacuum pump) (See [VACUUM LINE INSPECTION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)
- Check valve (between vacuum pump and power brake unit) (See [VACUUM LINE INSPECTION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)
- Air suction
 - Installation areas of each vacuum hose
 - Installation area of throttle body
 - Installation area of fuel injector
 - Installation area of PCV valve
 - Installation area of intake manifold

Standard

Approx. -60.0 kPa {-450.0 mmHg, -17.7 inHg}

| | |
|---|---|
| 1 | Intake manifold (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)] .) (See INTAKE MANIFOLD VACUUM INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)] .) |
| 2 | Air hose (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)] .) |
| 3 | Air cleaner (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)] .) (See AIR CLEANER ELEMENT REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)] .) (See AIR CLEANER ELEMENT INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)] .) |
| 4 | Resonance chamber (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)] .) |
| 5 | Fresh-air duct (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)] .) |
| 6 | Throttle body (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)] .) (See THROTTLE BODY INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)] .) |
| 7 | Accelerator pedal (See ACCELERATOR PEDAL REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)] .) |

With EGR cooler

INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)]

SM3344920

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Replacement Part

| | |
|----------------------------------|--------------------------------|
| Intake manifold gasket | Throttle body gasket |
| Quantity: 4 | Quantity: 1 |
| Location of use: Intake manifold | Location of use: Throttle body |

Warning

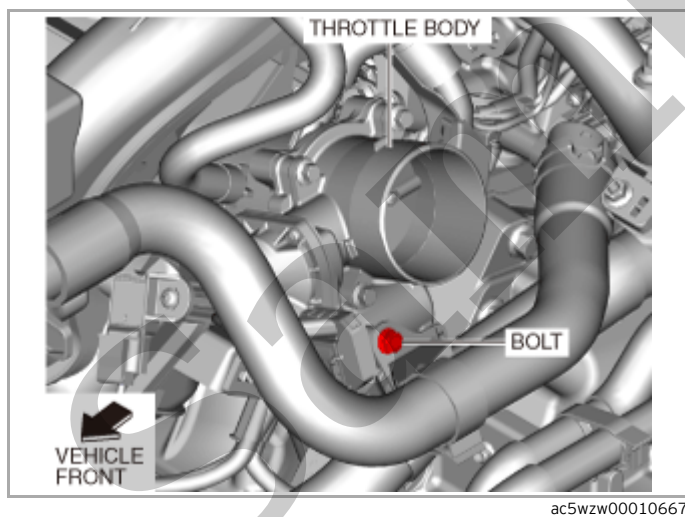
- A hot engine and intake air system can cause severe burns. Turn off the engine and wait until they are cool before removing the intake air system.

- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove in the order indicated in the table.
- 3.Install in the reverse order of removal.



Throttle Body Removal Note

- 1.Remove the bolt shown in the figure.



- 2.Remove the throttle body.

Intake Manifold Removal Note

- 1.Disconnect the wiring harness clip from the intake manifold shown in the figure.