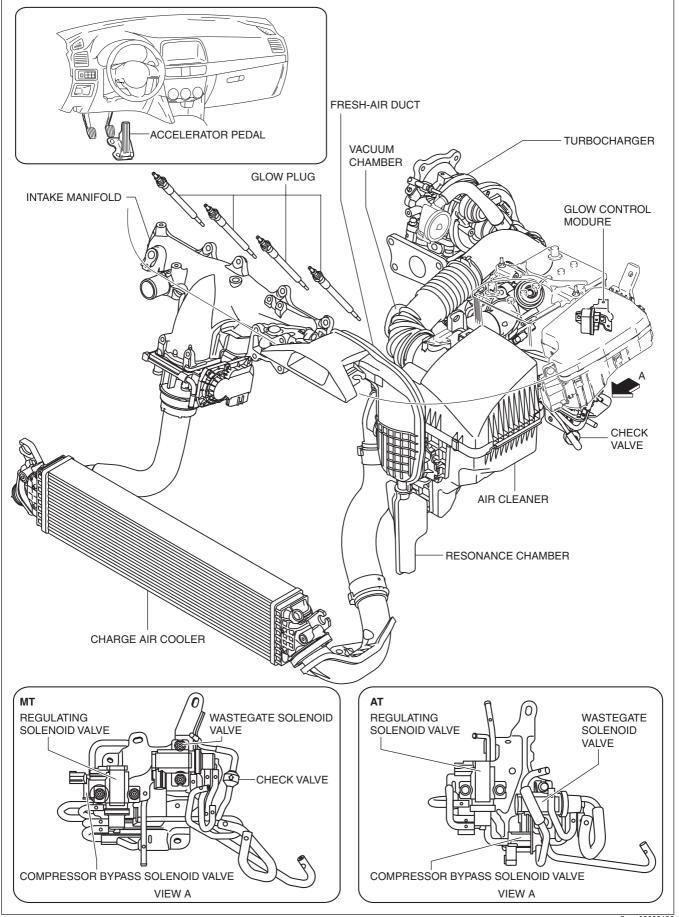
INTAKE-AIR SYSTEM [SKYACTIV-D 2.2]

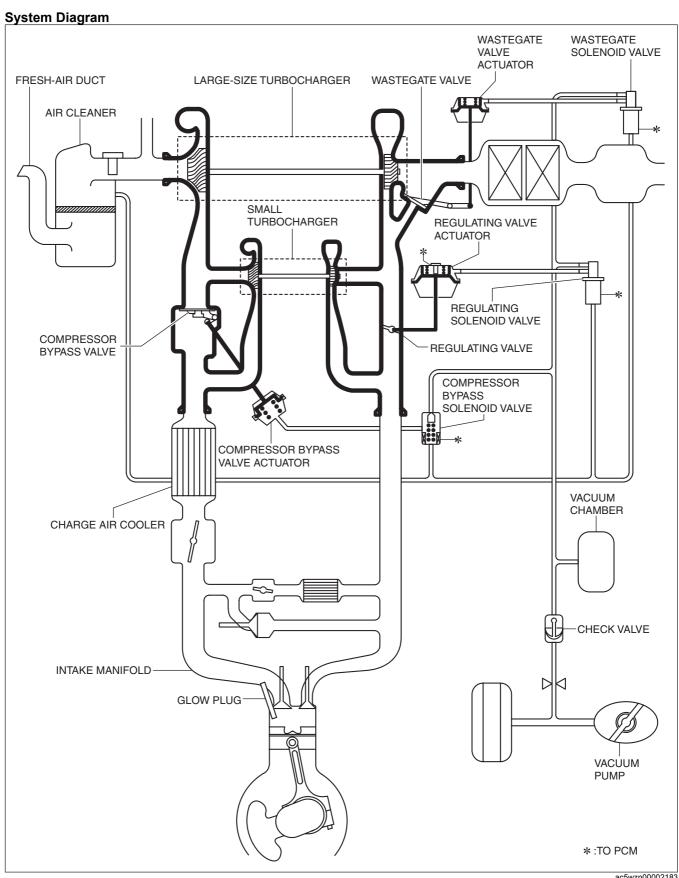
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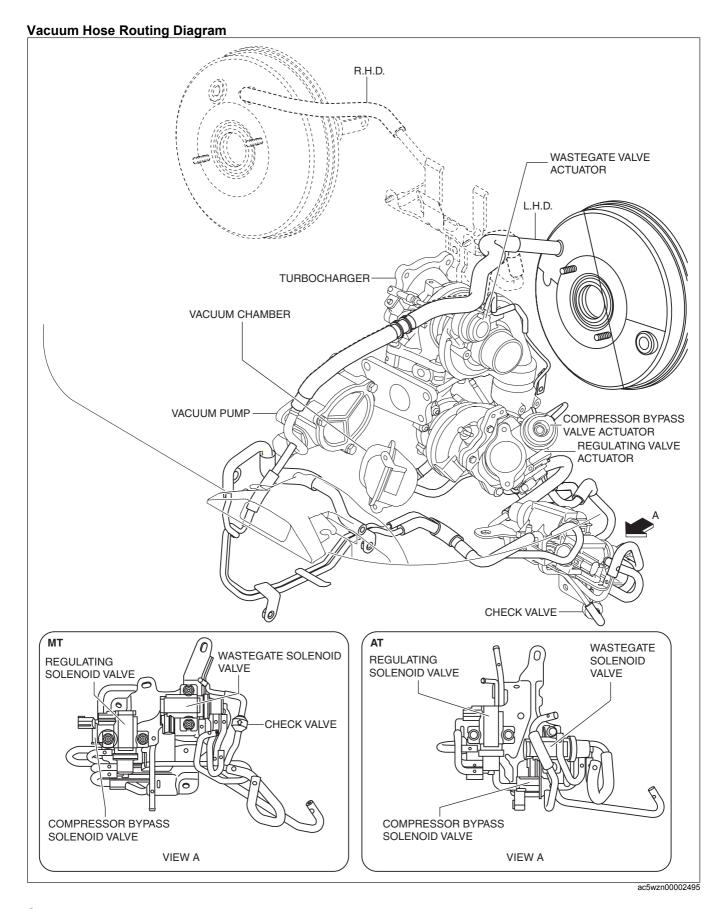
Purpose, Outline

- A vacuum pump has been adopted which supplies stable vacuum to the power brake unit.
- With the adoption of the two-stage air charging system, efficient, high air-charging is obtained in all driving ranges. As a result, low emissions, low fuel consumption, high torque, and high response are realized.

Structural View







Structure

• The intake air system consists of the following parts:

| Part/System name | | | Reference |
|---|----------------------------------|----------------------------------|---|
| Fresh-air duct | | | (See FRESH-AIR DUCT [SKYACTIV-D 2.2].) |
| Resonance chamber | | | (See RESONANCE CHAMBER [SKYACTIV-D 2.2].) |
| Air cleaner | | | (See AIR CLEANER [SKYACTIV-D 2.2].) |
| Intake manifold | | | (See INTAKE MANIFOLD [SKYACTIV-D 2.2].) |
| Air charging system (See AIR CHARGING SYSTEM [SKYACTIV-D 2.2].) | Turboc harger | Compressor bypass valve actuator | (See TURBOCHARGER [SKYACTIV-D 2.2].) (See REGULATING VALVE POSITION SENSOR - [SKYACTIV-D 2.2].) |
| | | Compressor bypass valve | |
| | | Wastegate valve actuator | |
| | | Wastegate valve | |
| | | Regulating valve actuator | |
| | | Regulating valve | |
| | | Regulating valve position sensor | |
| | Compressor bypass solenoid valve | | (See COMPRESSOR BYPASS SOLENOID VALVE [SKYACTIV-D 2.2].) |
| | Wastegate solenoid valve | | (See WASTEGATE SOLENOID VALVE [SKYACTIV-D 2.2].) |
| | Regulating solenoid valve | | (See REGULATING SOLENOID VALVE [SKYACTIV-D 2.2].) |
| | Vacuum chamber | | (See VACUUM CHAMBER [SKYACTIV-D 2.2].) |
| | Check valve | | (See CHECK VALVE [SKYACTIV-D 2.2].) |
| | Charge air cooler | | (See CHARGE AIR COOLER [SKYACTIV-D 2.2].) |
| Glow system (See GLOW SYSTEM [SKYACTIV-D 2.2].) | | Glow plug | (See GLOW PLUG [SKYACTIV-D 2.2].) |
| | | Glow control module | (See GLOW CONTROL MODULE [SKYACTIV-D 2.2].) |
| Accelerator pedal | | | (See ACCELERATOR PEDAL, KICKDOWN SWITCH [SKYACTIV-D 2.2].) |