
GROUP 15**INTAKE AND
EXHAUST****CONTENTS**

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AIR INTAKE SYSTEM

AIR DUCT AND AIR CLEANER

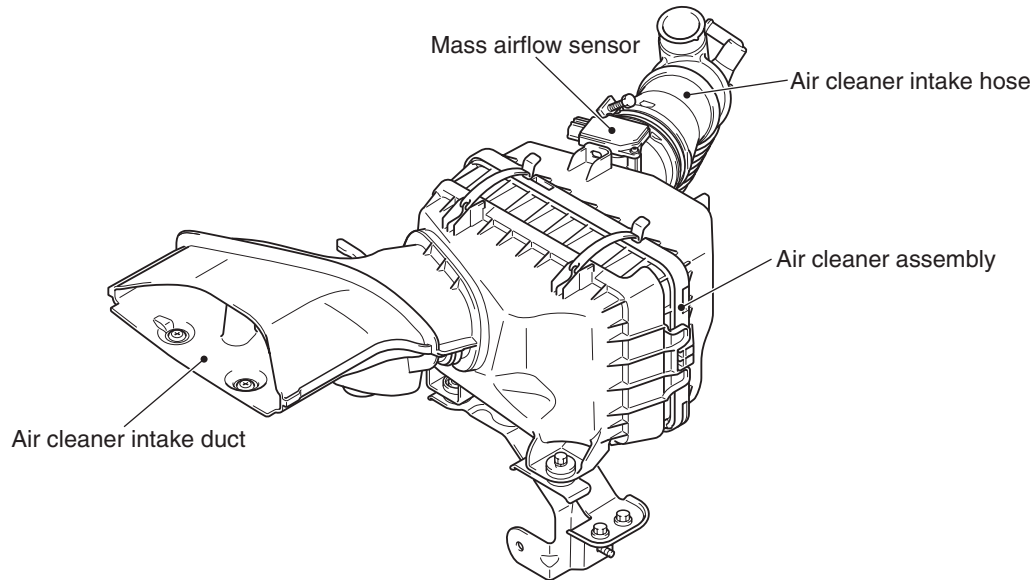
A front air intake system that sucks cooling air from the front through the top of the radiator has been adopted.

There are the following features.

- The layout where the battery is installed inside the trunk room has been adopted for unidirectional airflow inside the air cleaner to reduce the intake resistance.

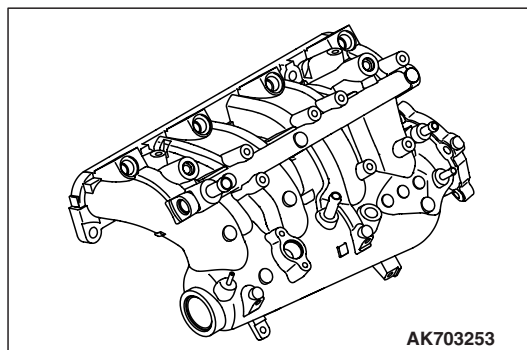
M2150004000872

CONSTRUCTION DIAGRAM



AC706058 AC

INTAKE MANIFOLD



M2150005000284

The intake manifold integrated into aluminum surge tank is used.

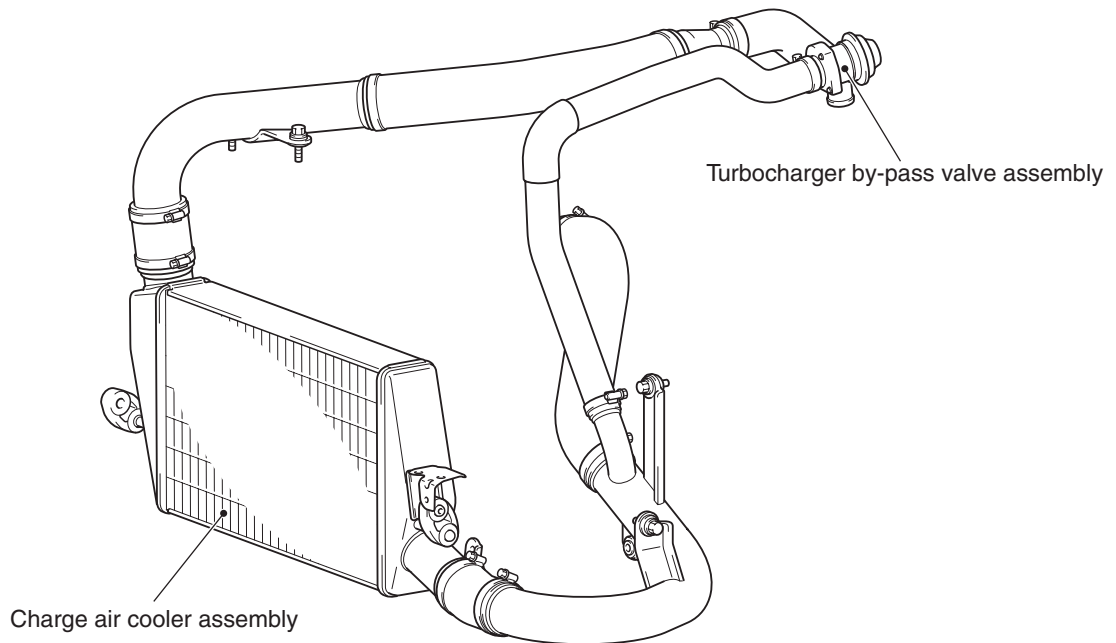
CHARGE AIR COOLER

An air cooled charge air cooler has been adopted. There are the following features.

- Aluminum has been used for the charge air cooler piping to reduce the vehicle weight.

- The bending points of the charge air cooler piping have been reduced to reduce the intake resistance.

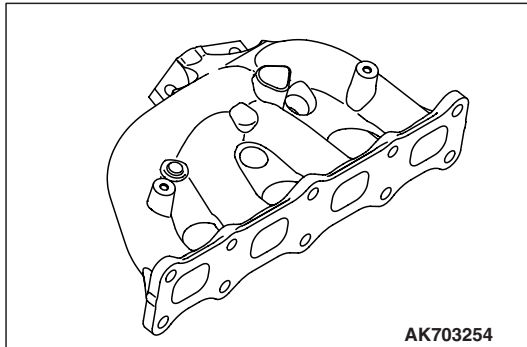
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EXHAUST SYSTEM

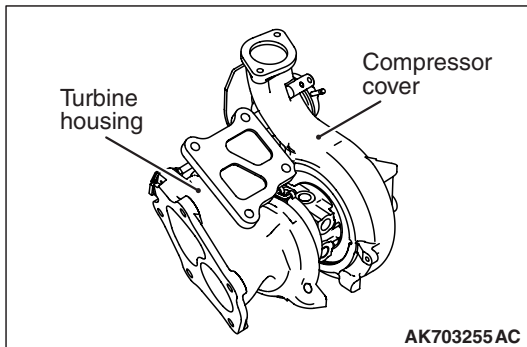
EXHAUST MANIFOLD



M2150006000715

The exhaust manifold made of stainless cast iron is used.

TURBOCHARGER



M2150009000286

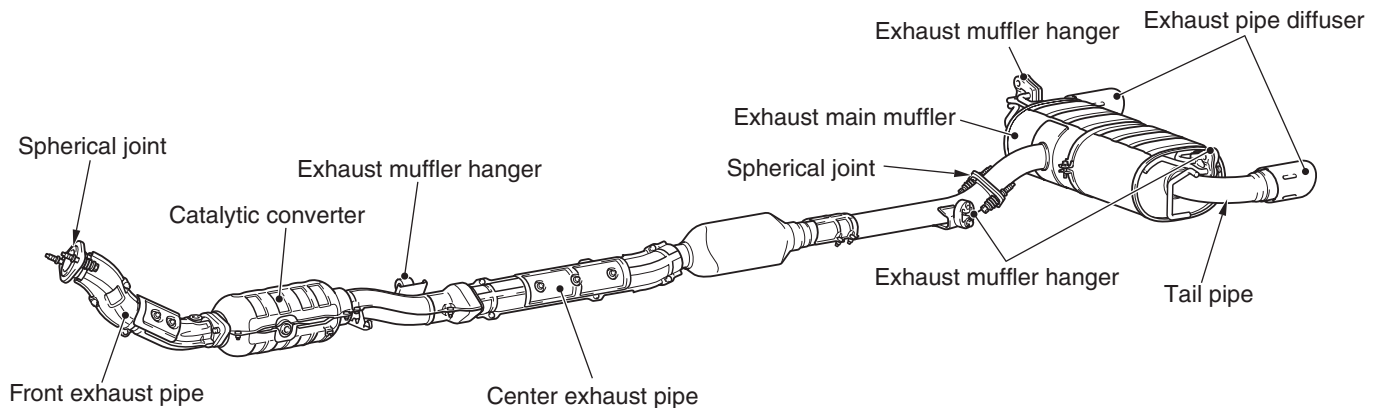
The turbocharger uses TD05H-152G6-12T: Inconel turbine wheel/ aluminum alloy compressor wheel.

EXHAUST PIPE AND MAIN MUFFLER

M2150012000026

A 4-piece type of exhaust pipe and muffler which consists of the front exhaust pipe, catalytic converter, center exhaust pipe and exhaust main muffler has been adopted, and has the following features:

- Due to the adoption of rear exhaust layout, the exhaust pipe length has been shortened, the exhaust gas temperature drop at engine start has been prevented, and the early-activation of catalytic converter has been accelerated, which reduces the exhaust gas.
- The diameter of front exhaust pipe has been increased, and the exhaust pressure has been reduced, which improves the engine performance.
- The capacity of exhaust main muffler has been increased, and two tail pipes have been adopted, which improves the engine performance.
- A 4-point exhaust muffler hanger has been adopted for optimization of position, which reduces vibration to the vehicle.
- The spherical joint has been adopted for connection between the front exhaust pipe and the exhaust manifold, and between the exhaust main fitting and the center exhaust pipe, which reduces vibration to the vehicle.
- The two tail pipes for the exhaust main muffler and the large-diameter elliptic exhaust tail pipe diffuser have been adopted, which enhances the sporty image.

CONSTRUCTION DIAGRAM

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