

CYLINDER HEAD [SKYACTIV-D 2.2]

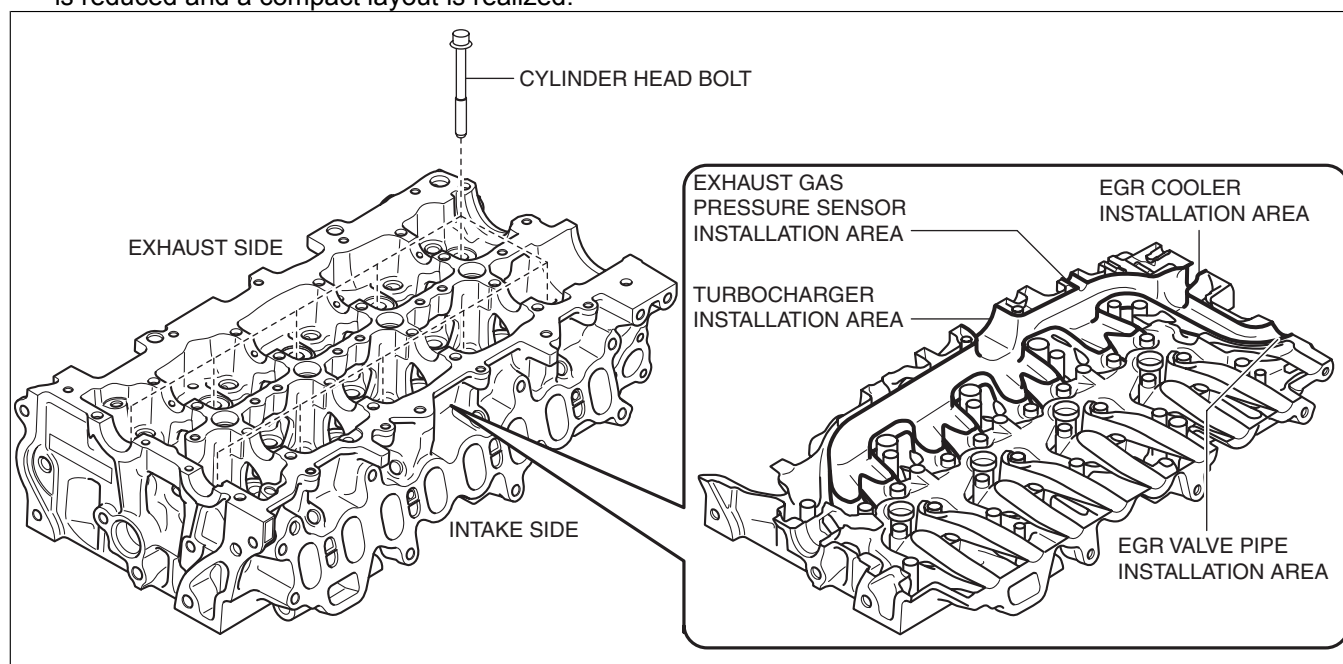
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Purpose, Function

- The cylinder head forms the combustion chamber and intake and exhaust ports.

Construction

- The lightweight cylinder head is made of aluminum alloy with excellent thermal conductivity.
- There are two intake valves and two exhaust valves per cylinder for a total of four valves and the intake/exhaust type has been changed to a cross-flow type, improving intake and exhaust efficiency.
- With the adoption of plastic region tightening* for the cylinder head bolts, axial force has been stabilized.
- By incorporating an exhaust gas passage in the cylinder, the exhaust manifold is unnecessary, the engine weight is reduced and a compact layout is realized.



* : Plastic region tightening is a method of controlling the tightening using the rotation angle of a bolt. By tightening to the region (plastic tightening region) in which bolt deformation does not become irreversible, variation in axial force is suppressed.

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