

COOLING

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GENERAL

OUTLINE OF CHANGES

With the modification below by additional emission regulation step III compatible 4D56 engine, the service procedure of the part that is different from previous service procedure has been established.

- The turbocharger has been changed to a Variable Geometry (VG) type. Due to this change, an EGR cooler has been added and section "Water hose and water pipe" has been changed.
- Heat release of the radiator has been enhanced to correspond to a newly introduced Variable Geometry (VG) turbocharger.

SPECIFICATIONS

GENERAL SPECIFICATION

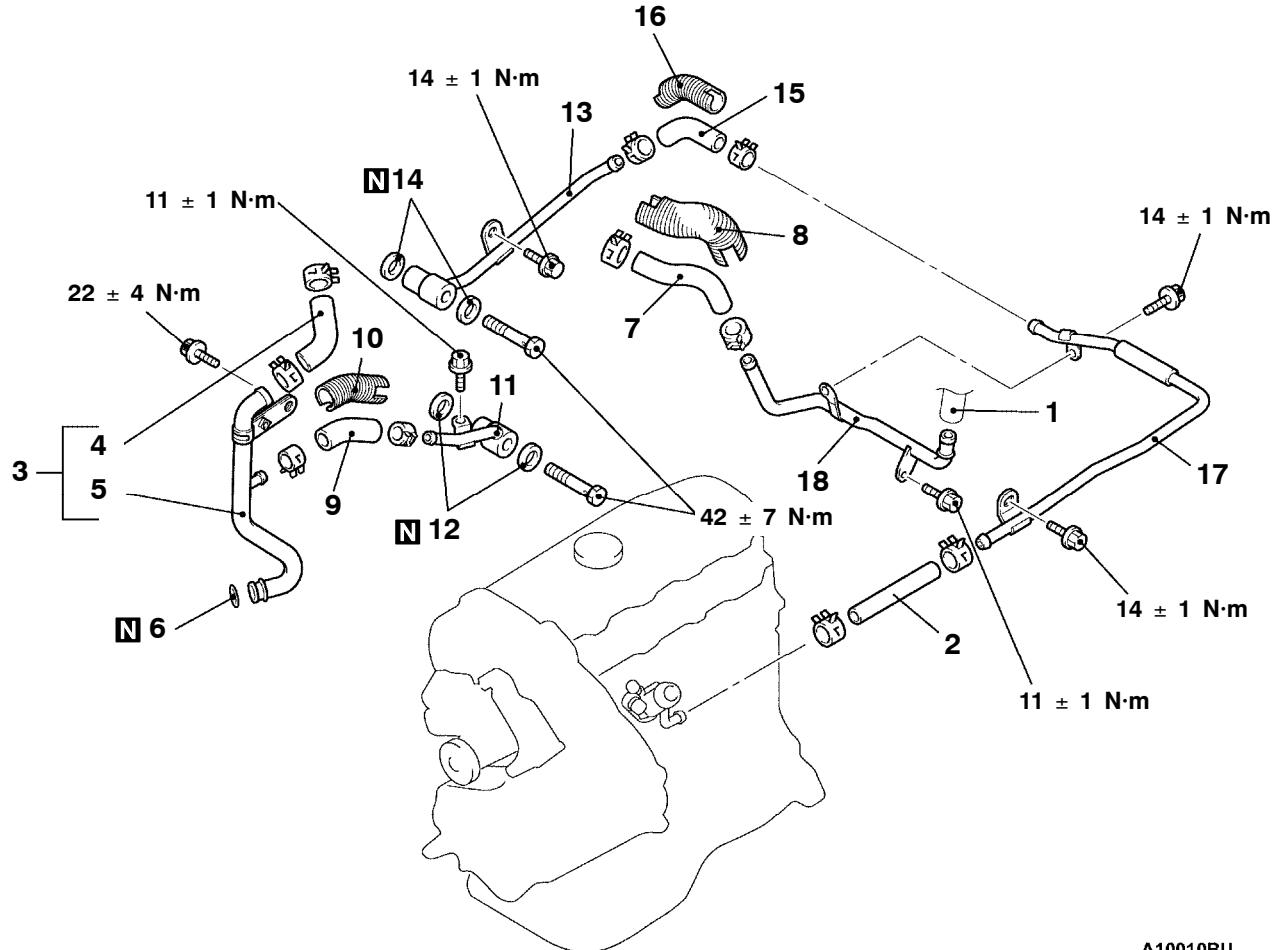
Items	Specifications		
Radiator	Performance kJ/h	4D5-Step III	236,500

WATER HOSE AND WATER PIPE <4D5-Step III>

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

- Engine Coolant Draining and Supplying.



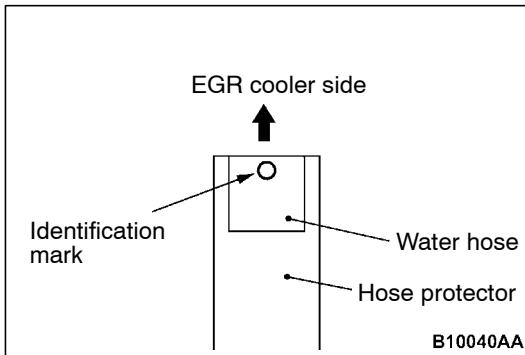
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Removal steps

- Injection pipe
- 1. Heater hose connection
- 2. Water hose
- Air cleaner assembly
- 3. Water pipe and hose assembly
- 4. Water hose
- 5. Water pipe E
- 6. O-ring
- 7. Water hose
- 8. Hose protector
- EGR valve, EGR cooler
(Refer to GROUP 17.)



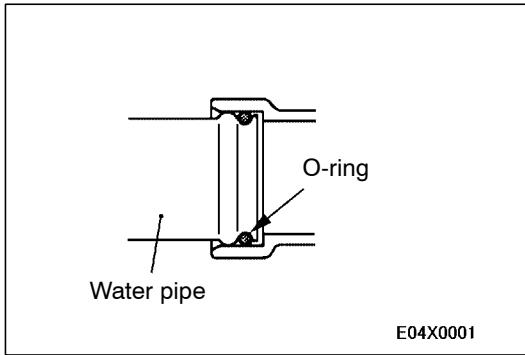
- Turbocharger heat protector (Refer to GROUP 15 - Intake and exhaust manifold, turbocharger.)
- 9. Water hose
- 10. Hose protector
- 11. Water pipe A
- 12. Gasket
- 13. Water pipe B
- 14. Gasket
- 15. Water hose
- 16. Hose protector
- 17. Water pipe C
- 18. Water pipe D



INSTALLATION SERVICE POINTS

►A◀WATER HOSE INSTALLATION

The identification mark on the water hose end should face toward the EGR cooler.



INSTALLATION SERVICE POINTS

►B◀O-RING INSTALLATION

Rinse the mounting location of the O-ring and water pipe with water, and install the O-ring and water pipe.

Caution

1. Care must be taken not to permit engine oil or other greases to adhere to the O-ring.
2. When inserting the pipe, check to be sure that there is no sand, dirt, etc. on its inner surface.