



## Removal and Installation

### NOTICE

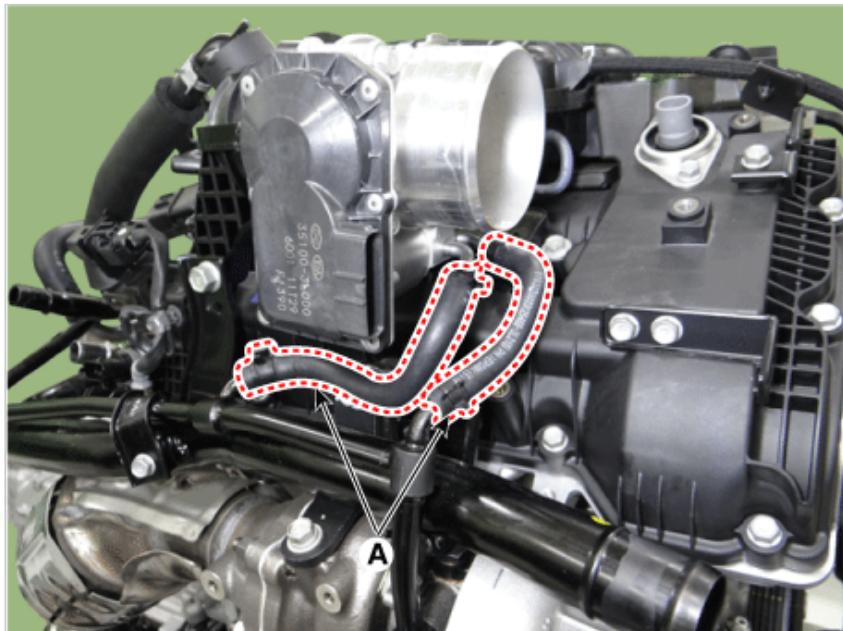
To avoid damage, unplug the wiring connectors carefully while holding the connector portion.

### Information

Mark all wiring and hoses to avoid misconnection.

## Water Temperature Control Assembly

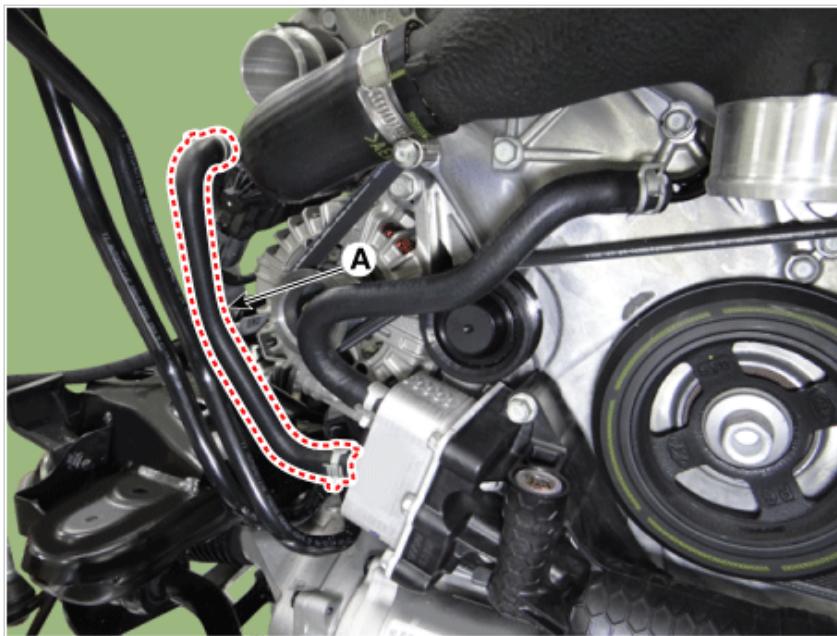
1. Remove the engine and transmission assembly.  
**(Refer to Engine and Transmission Assembly - "Engine and Transmission Assembly")**
2. Disconnect the electronic throttle body control (ETC) module coolant hose (A).



3. Disconnect the coolant hose (A).



4. Disconnect the oil cooler hose B (A).



5. Remove the RH turbocharger water pipe (A).

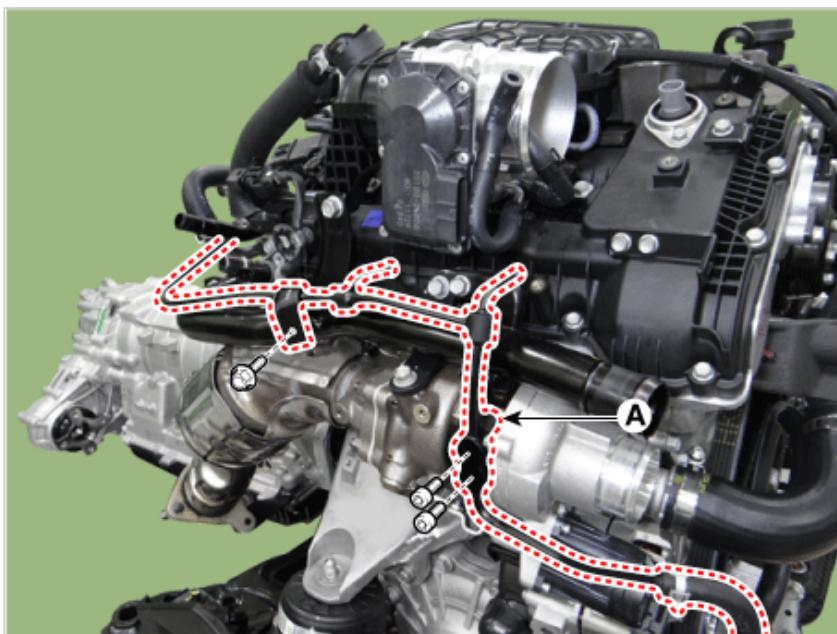
**Tightening torque :**

Eye bolts :

33.3 - 39.2 N·m (3.4 - 4.0 kgf·m, 24.6 - 28.9 lb·ft)

Bolt :

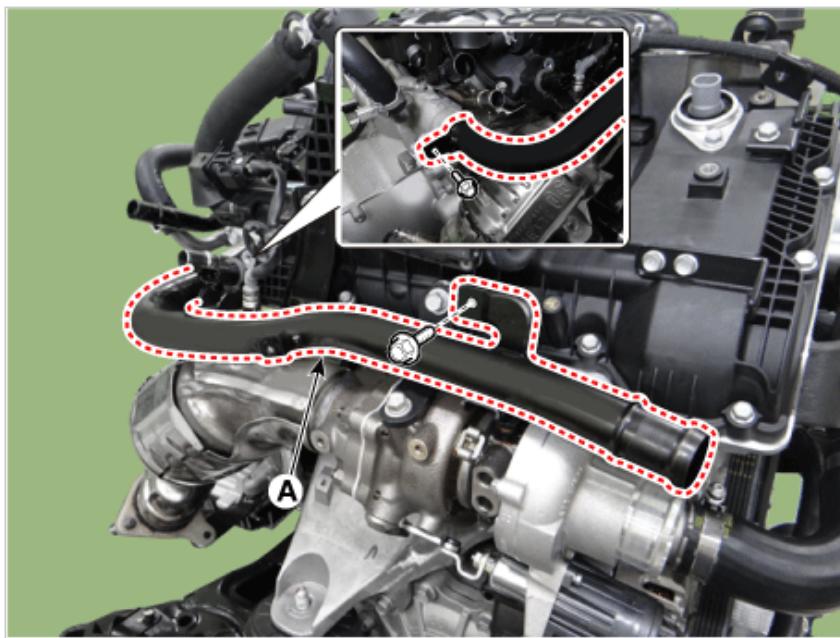
9.8 - 11.8 N·m (1.0 - 1.2 kgf·m, 7.2 - 8.7 lb·ft)



6. Remove the water inlet pipe (A).

**Tightening torque :**

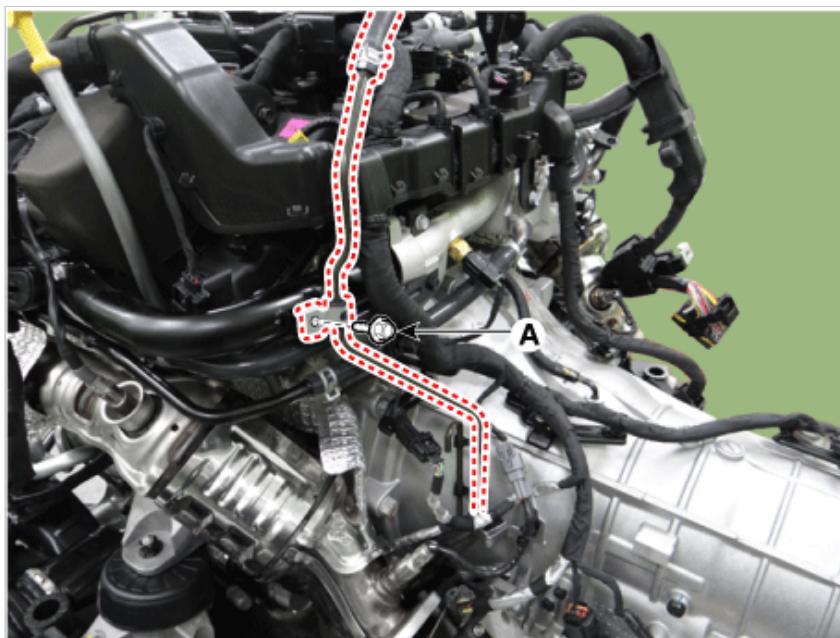
24.5 - 28.4 N·m (2.5 - 2.9 kgf·m, 18.1 - 21.0 lb·ft)



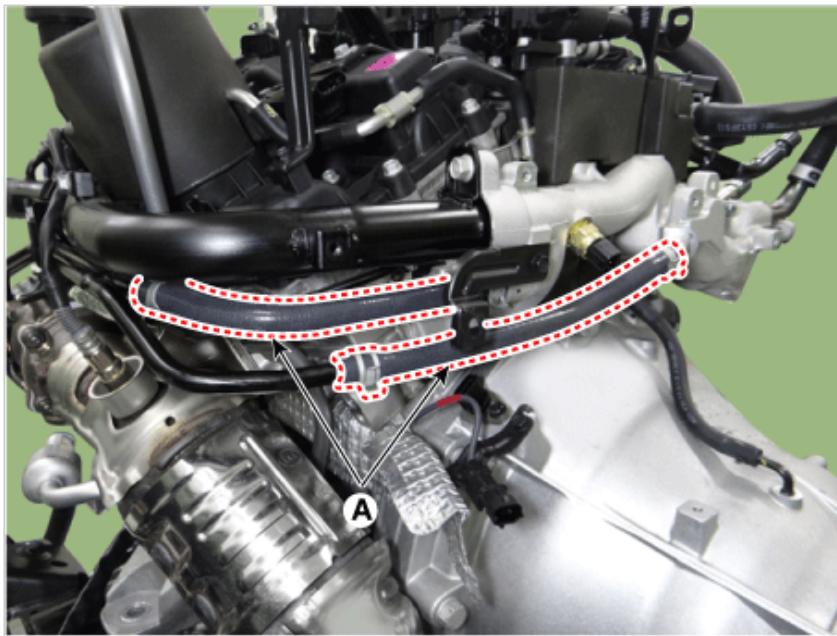
7. Remove the brake vacuum pipe mounting bolt (A).

**Tightening torque :**

7.8 - 9.8 N·m (0.8 - 1.0 kgf·m, 5.8 - 7.2 lb·ft)



8. Disconnect the coolant hose (A).



9. Remove the LH turbocharger water pipe (A).

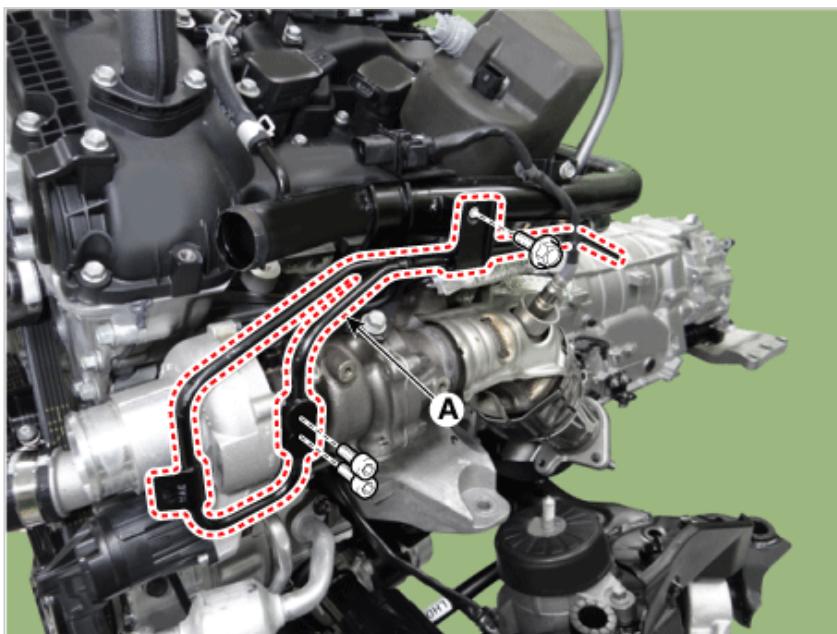
**Tightening torque :**

Eye bolts :

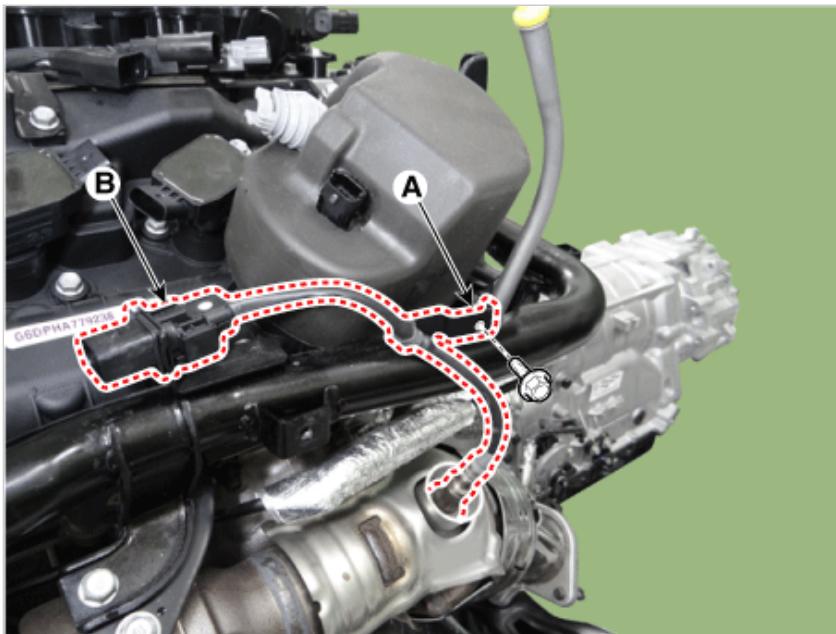
33.3 - 39.2 N·m (3.4 - 4.0 kgf·m, 24.6 - 28.9 lb·ft)

Bolt :

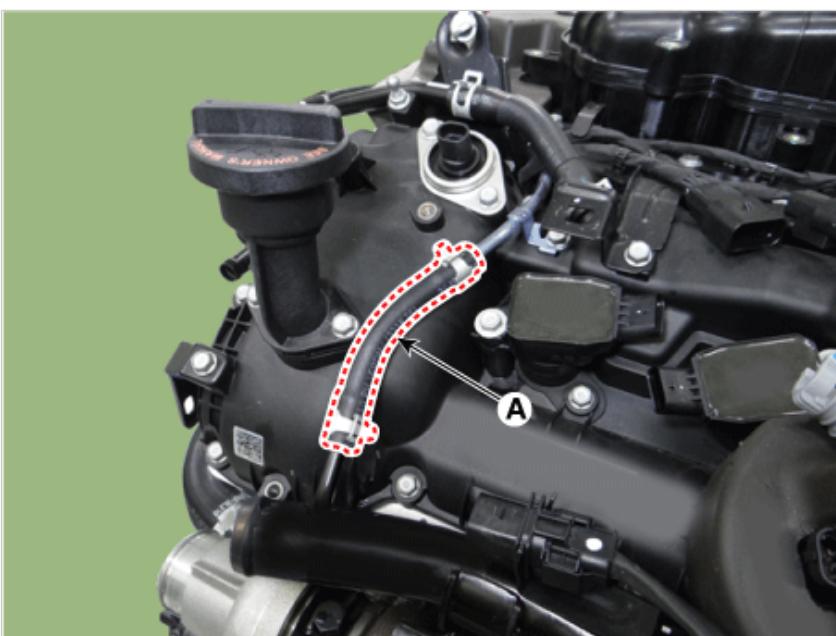
9.8 - 11.8 N·m (1.0 - 1.2 kgf·m, 7.2 - 8.7 lb·ft)



10. Remove the heated oxygen sensor (HO2S) wiring bracket (A) and heated oxygen sensor (HO2S) connector (B) from the water outlet pipe.



11. Disconnect the coolant hose (A).



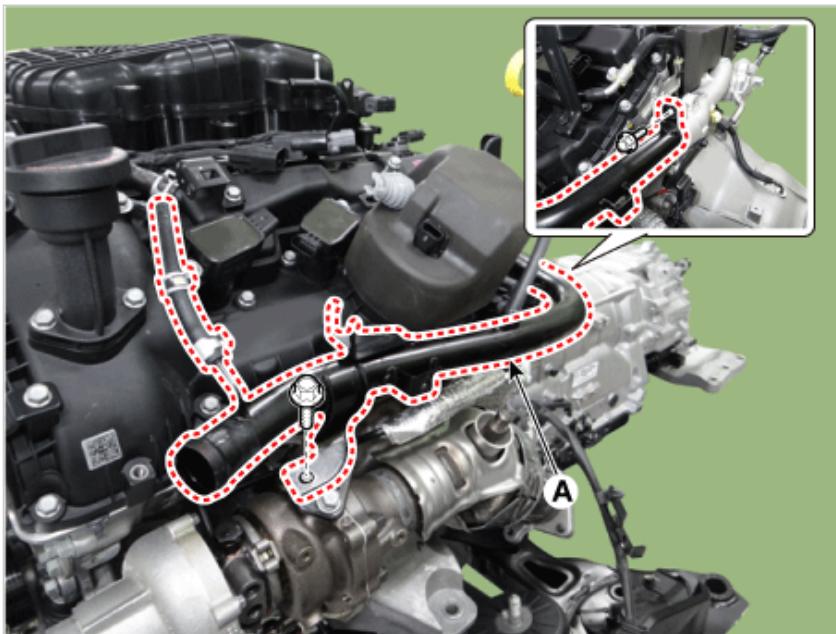
12. Remove the water outlet pipe (A).

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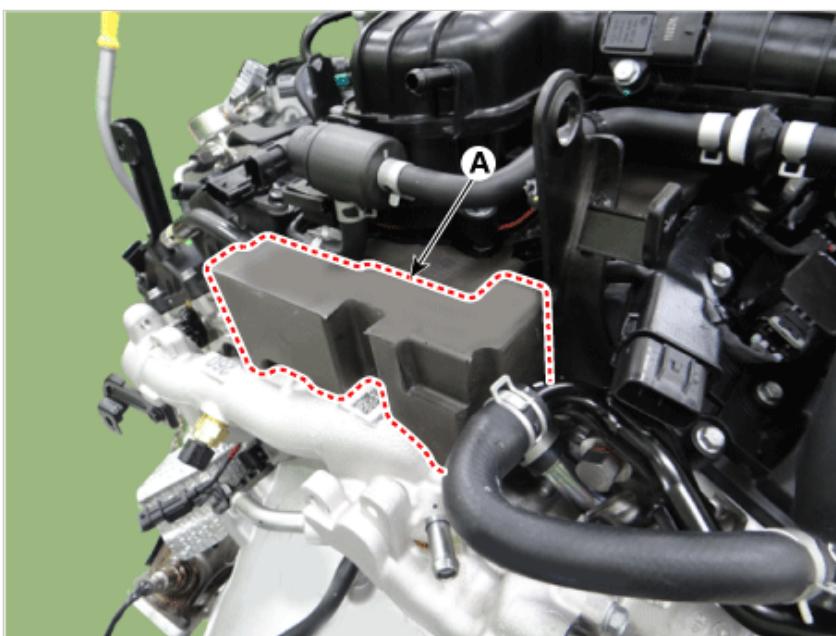
**Tightening torque :**

24.5 - 28.4 N·m (2.5 - 2.9 kgf·m, 18.1 - 21.0 lb·ft)

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13. Remove the foam (A).



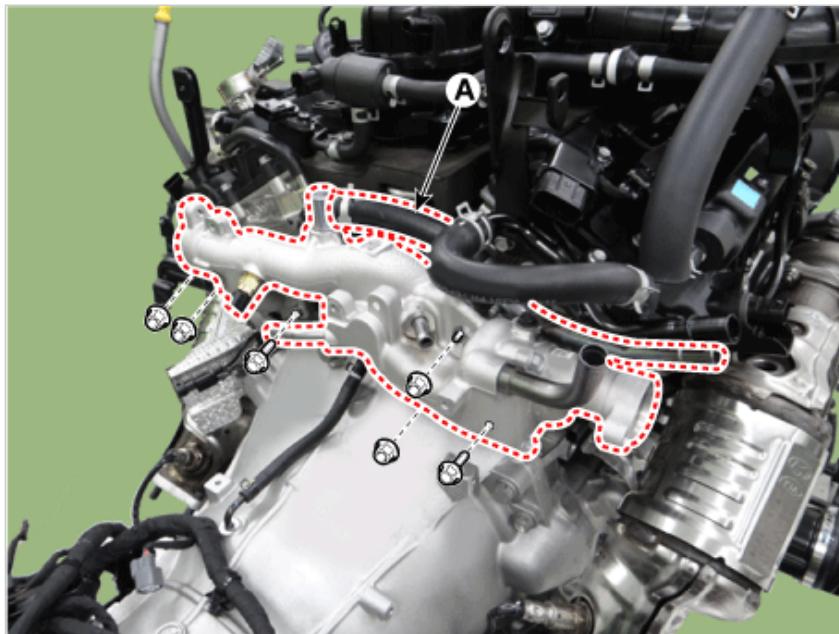
14. Remove the water temperature control assembly (A).

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**Tightening torque :**

24.5 - 28.4 N·m (2.5 - 2.9 kgf·m, 18.1 - 21.0 lb·ft)

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15. Remove the water temperature control assembly gasket (A).

[LH]



[RH]



16. Install in the reverse order of removal.

**NOTICE**

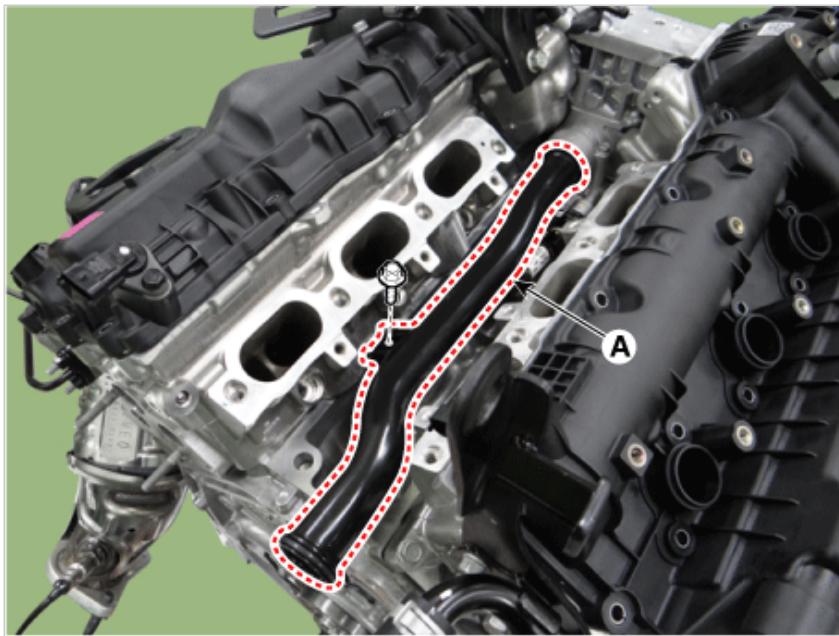
Always use a new water temperature control assembly gasket.

## Water Center Pipe

1. Remove the engine and transmission assembly.  
**(Refer to Engine and Transmission Assembly - "Engine and Transmission Assembly")**
2. Remove the water temperature control assembly.
3. Remove the surge tank.  
**(Refer to Intake and Exhaust System - "Surge Tank")**
4. Remove the intake manifold.  
**(Refer to Intake and Exhaust System - "Intake Manifold")**
5. Remove the delivery pipe.  
**(Refer to Engine Control / Fuel System - "Delivery Pipe")**
6. Remove the water center pipe (A).

**Tightening torque :**

9.8 - 11.8 N·m (1.0 - 1.2 kgf·m, 7.2 - 8.7 lb·ft)



7. Install in the reverse order of removal.

**NOTICE**

Always use a new water center pipe O-ring.