

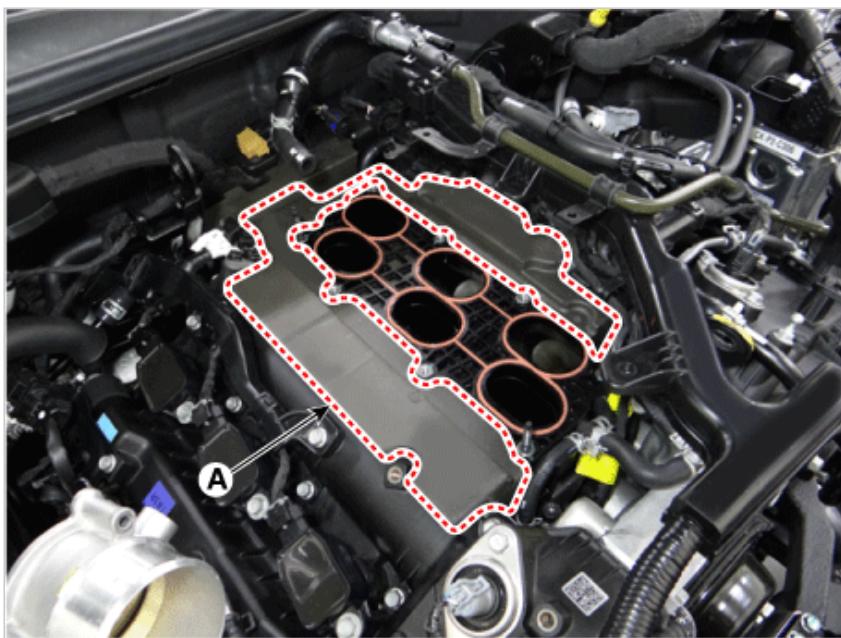


Removal

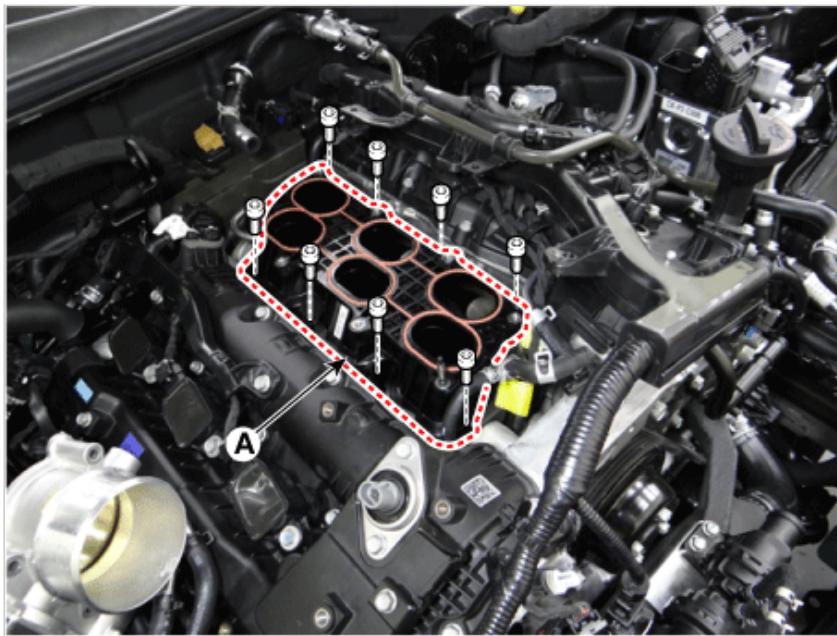
1. Disconnect the negative battery terminal.
2. Remove the engine cover.
[\(Refer to Engine and Transmission Assembly - "Engine Cover"\)](#)
3. Remove the engine room front under cover.
[\(Refer to Engine and Transmission Assembly - "Engine Room Under Cover"\)](#)
4. Drain the coolant.
[\(Refer to Cooling System - "Coolant"\)](#)
5. Disconnect the coolant vent hose (A).



6. Remove the surge tank.
[\(Refer to Intake and Exhaust System - "Surge Tank"\)](#)
7. Remove the foam (A).

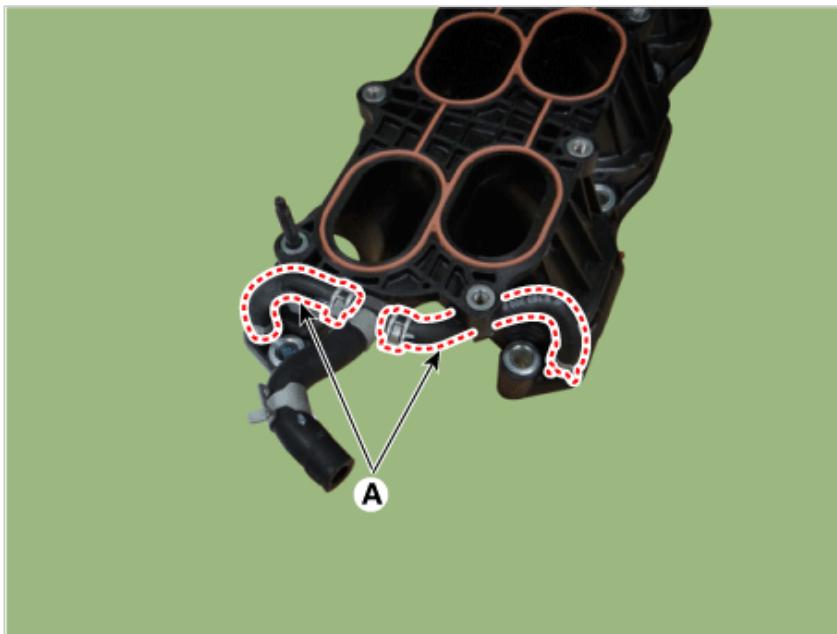


8. Remove the intake manifold (A).

**NOTICE**

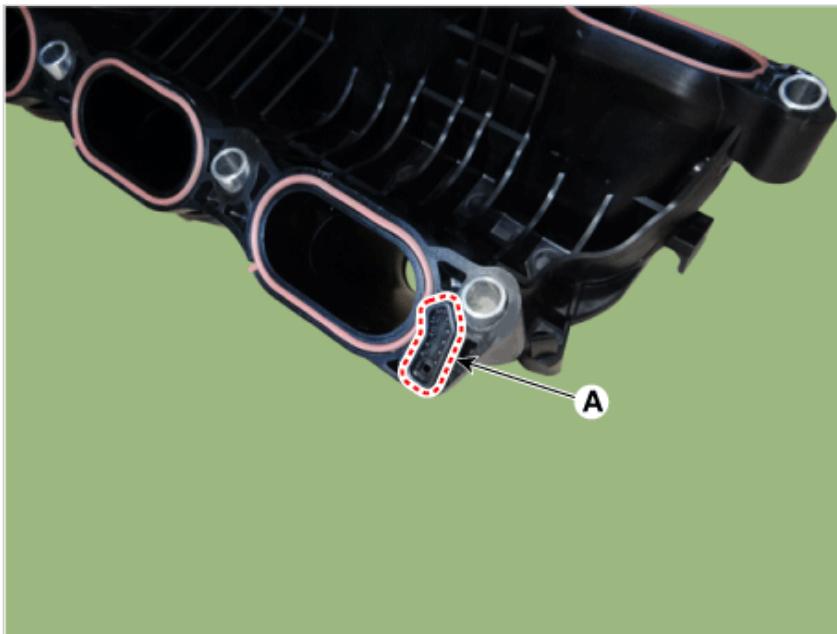
- Be sure to drain the engine coolant before removing the intake manifold.
- If any coolant drained from the cylinder head vent hole has entered the intake port. This can potentially lead to engine trouble.

9. Disconnect the water hose (A).

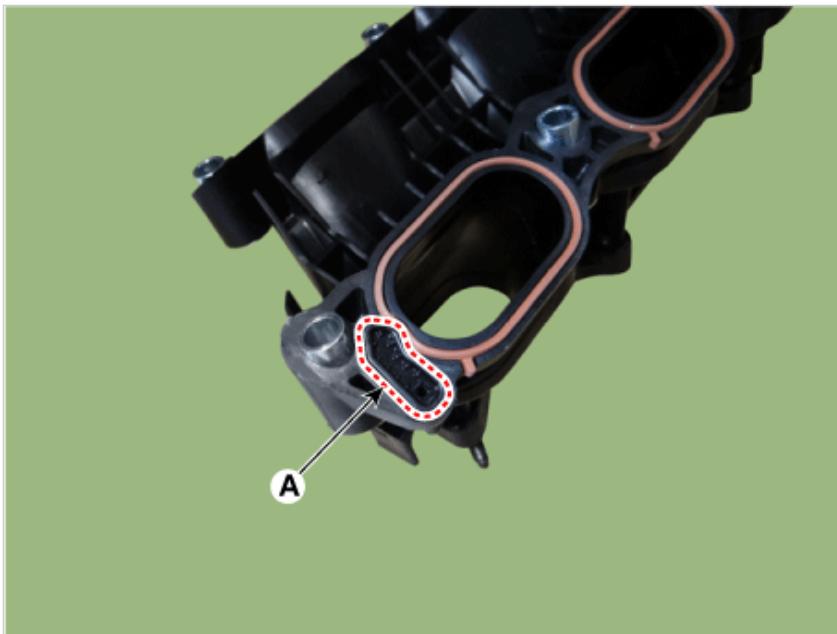


10. Remove the water gasket (A).

[LH]



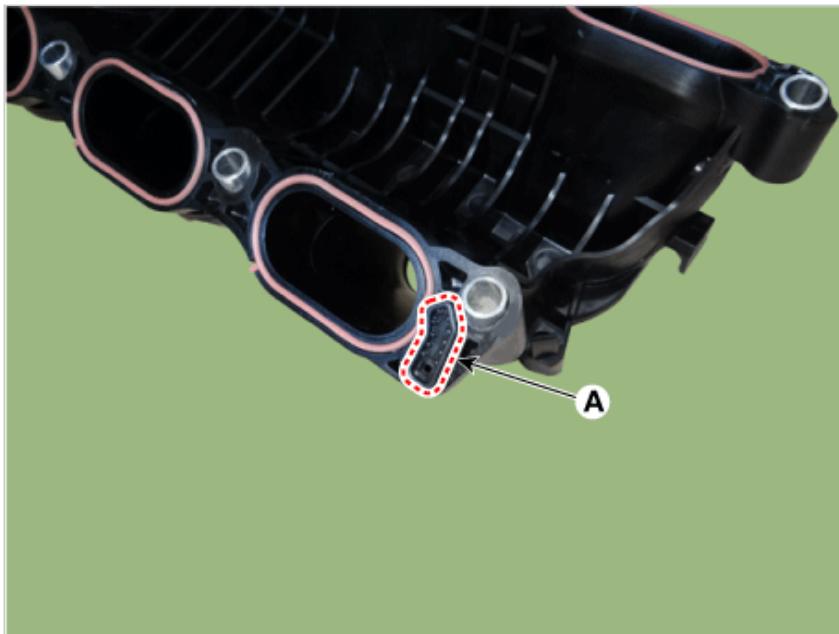
[RH]



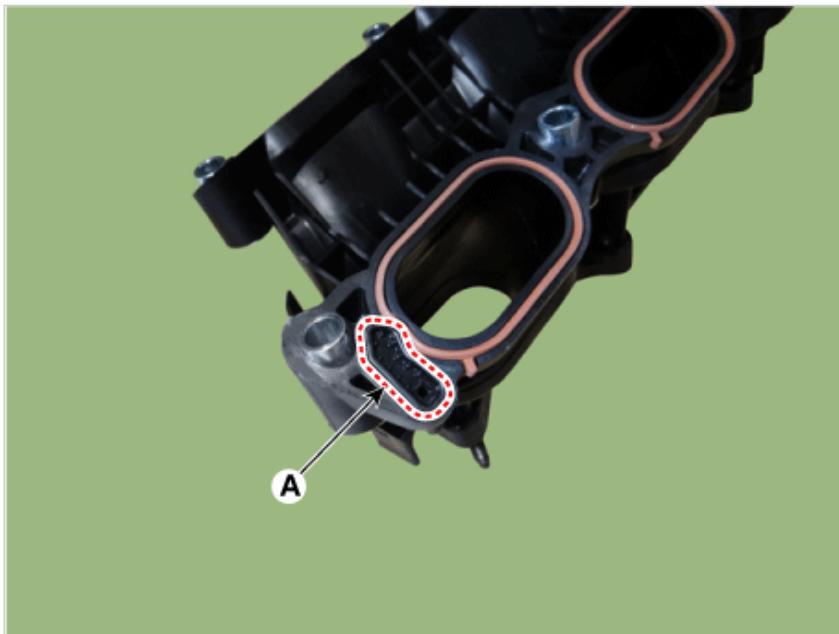
Installation

1. Install the new water gasket (A).

[LH]

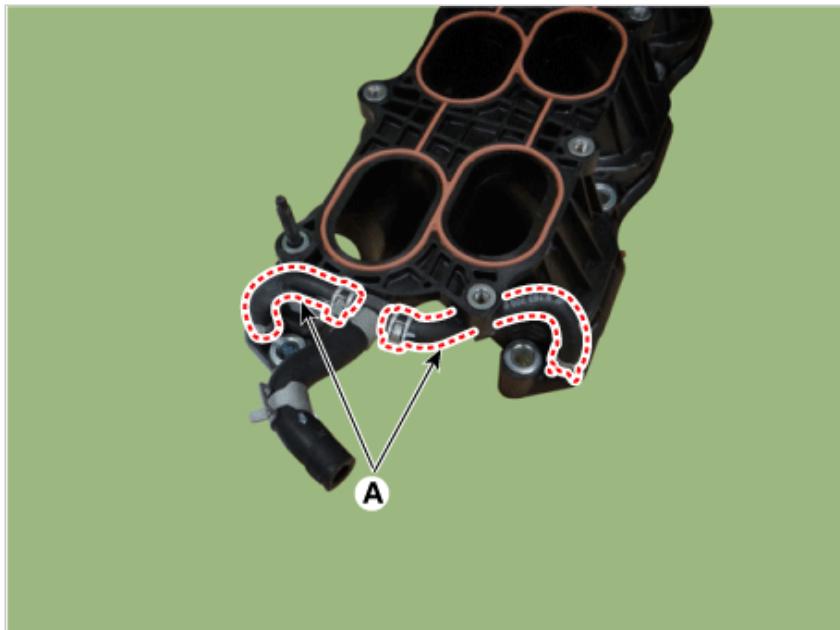


[RH]

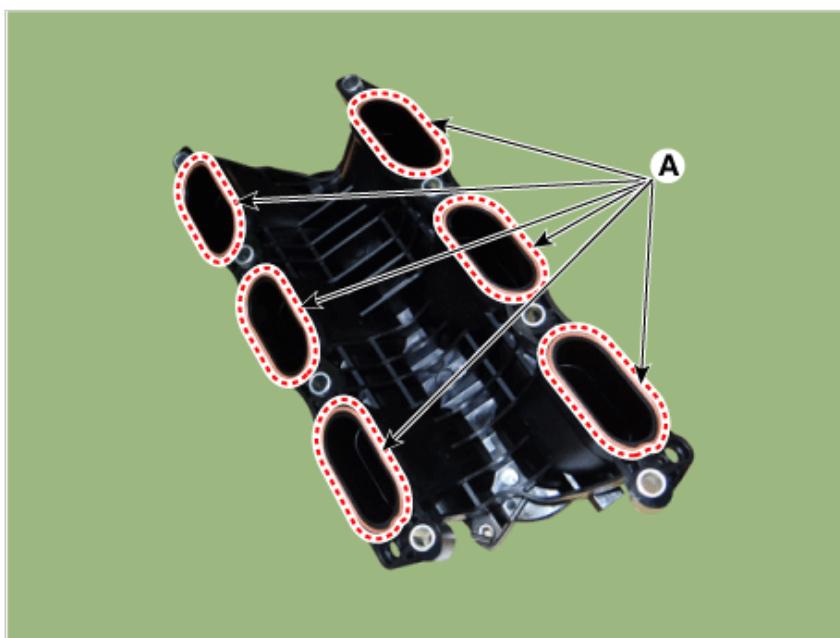
**NOTICE**

Always use a new water gasket.

2. Connect the water hose (A).

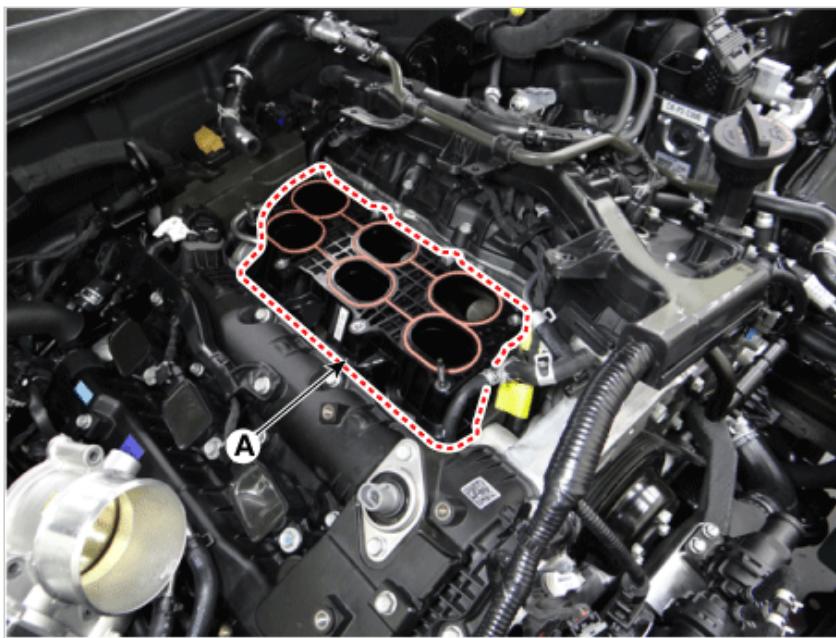


3. Install the new intake manifold gasket (A).

**NOTICE**

Always use a new intake manifold gasket.

4. Install the intake manifold (A).



5. Tighten the intake manifold bolts, in several passes as below.

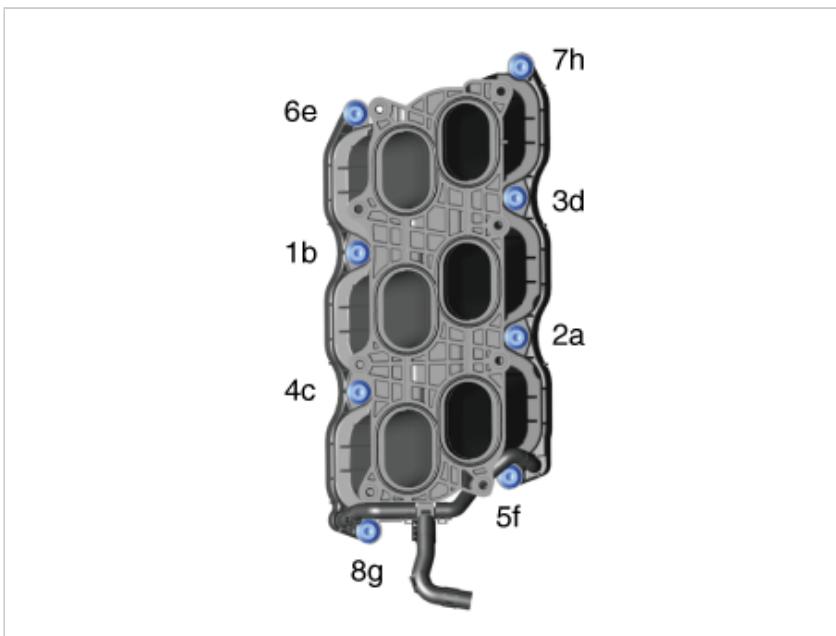
Tightening torque

1st step (a -h) :

3.9 - 5.8 N·m (0.4 - 0.6 kgf·m, 2.9 - 4.3 lb·ft, 34.7 - 52.1 lb·in)

2nd step (1 - 8) :

26.5 - 31.4 N·m (2.7 - 3.2 kgf·m, 19.5 - 23.1 lb·ft)



6. Install the other parts in the reverse order of removal.

7. Fill the coolant.

(Refer to Cooling system - "Coolant")

8. Start engine and check for leaks.

9. Recheck engine coolant level.