



## Removal

### [WCC, Bank 1]

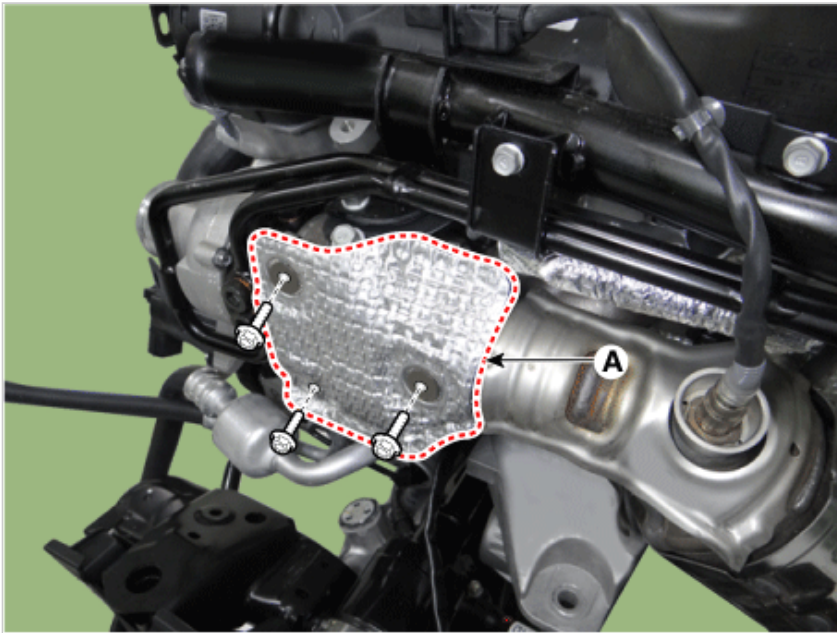
1. Switch "OFF" the ignition and disconnect the negative (-) battery terminal.
2. Remove the LH air cleaner.  
(Refer to Engine Mechanical System - "Air Cleaner")
3. Remove the TCM.  
(Refer to Automatic Transmission System - "Transmission Control Module (TCM)")
4. Remove the cowl top cover.  
(Refer to Body (Interior and Exterior) - "Cowl Top Cover")
5. Remove the engine room panel.
6. Remove the heated oxygen sensor (Bank 2/Sensor 1).  
(Refer to Engine Control / Fuel System - "Heated Oxygen Sensor (HO2S)")
7. Drain the coolant.  
(Refer to Engine Mechanical System - "Coolant")
8. Remove the front muffler.  
(Refer to Engine Mechanical System - "Muffler")
9. Remove the front sub frame.  
(Refer to Suspension System - "Sub Frame")
10. Remove the LH turbo manifold module heat protector (A).

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**Tightening torque :**

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

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11. Remove the LH turbocharger water hose & pipe (A)

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**Tightening torque**

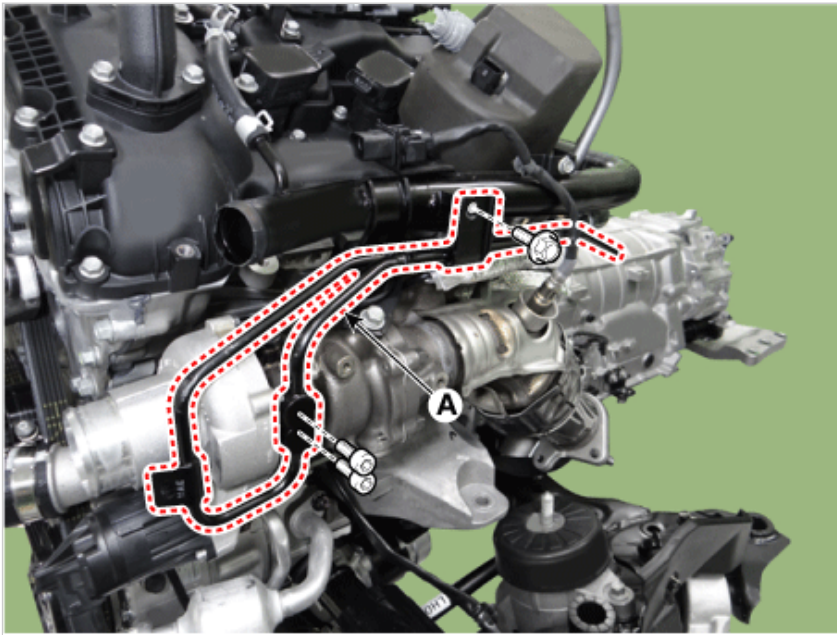
Eye bolts :

33.3 - 39.2 N·m (3.4 - 4.0 kgf·m, 26.6 - 28.9 lb·ft)

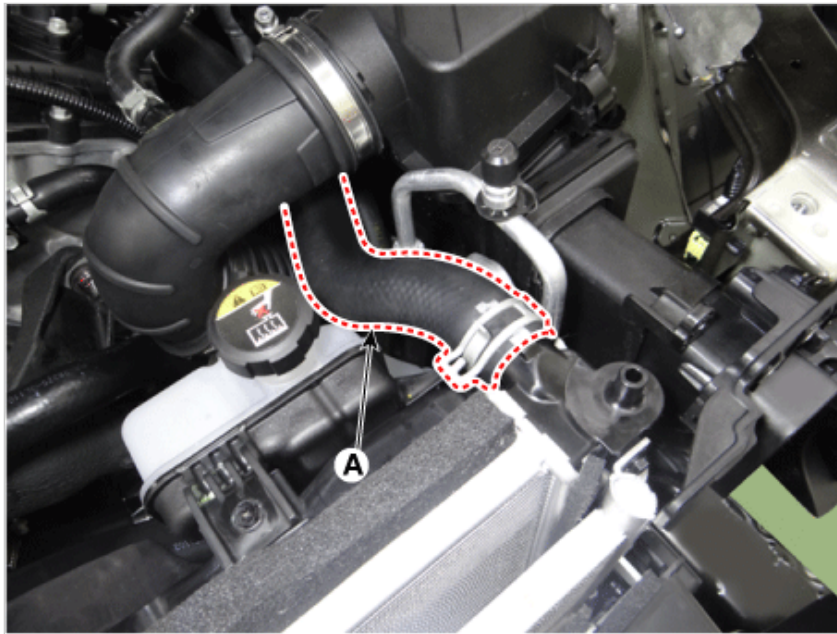
Bolt :

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

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12. Disconnect the radiator upper hose (A).



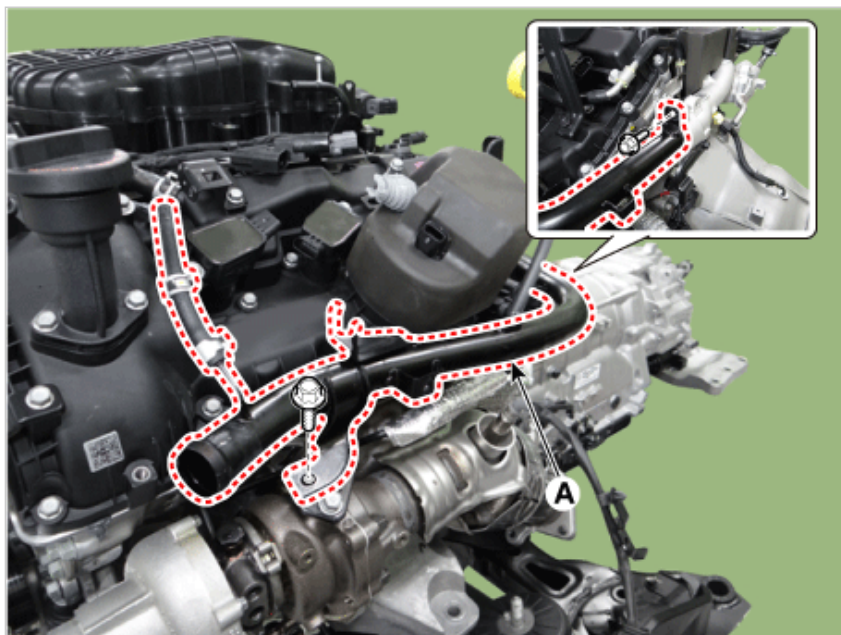
13. Remove the water outlet pipe (A).

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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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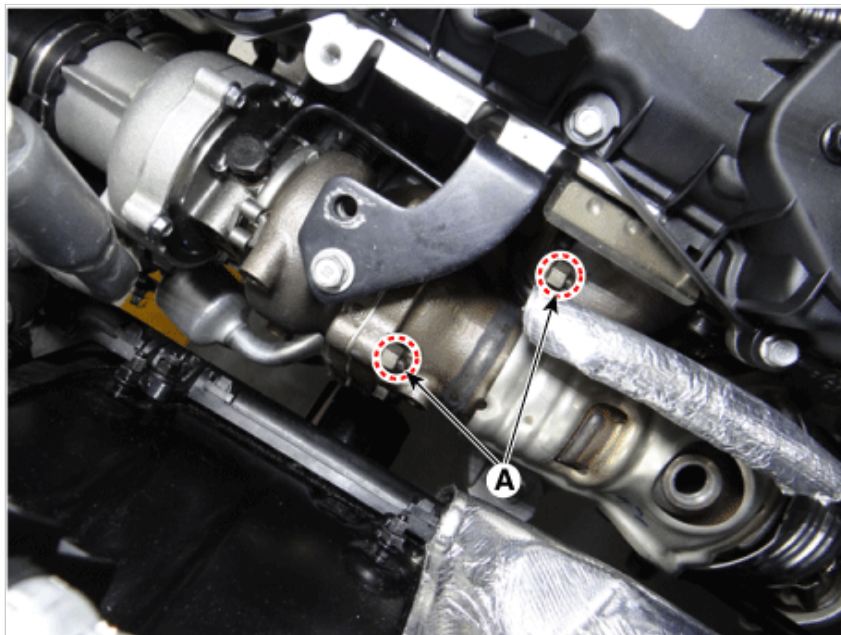
14. Remove the LH warm-up catalytic converter (WCC) (A).

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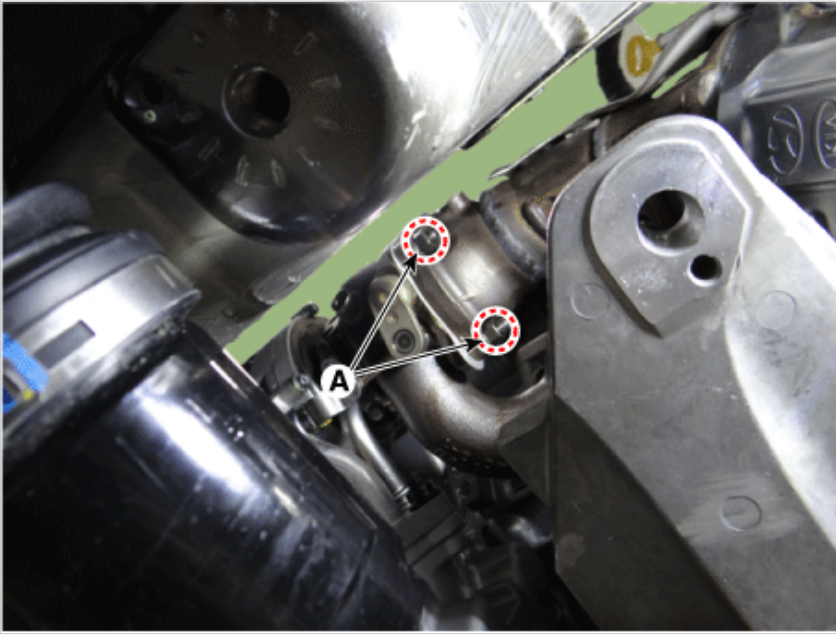
**Tightening torque :**

35.3 - 41.2 N·m (3.6 - 4.2 kgf·m, 26.0 - 30.4 lb·ft)

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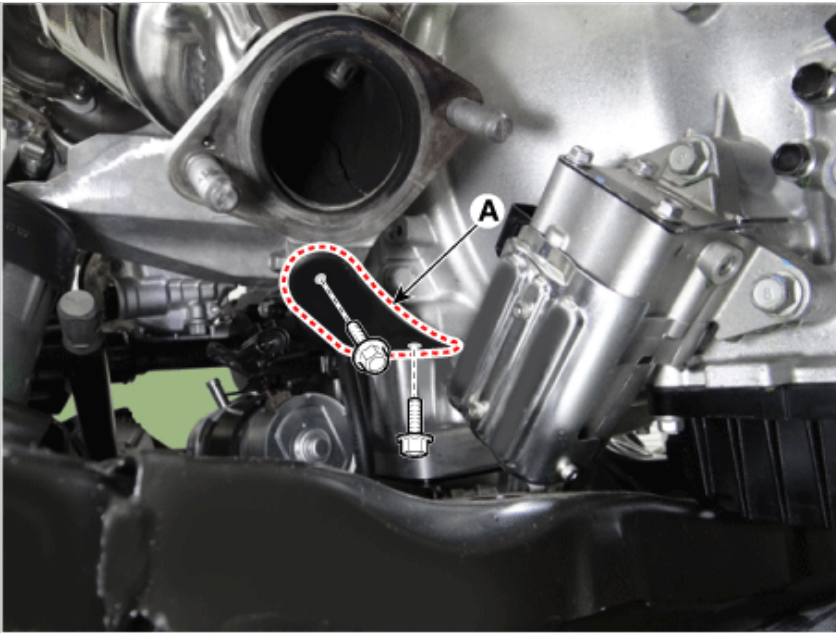
15. Remove the LH warm-up catalytic converter (WCC) stay (A).

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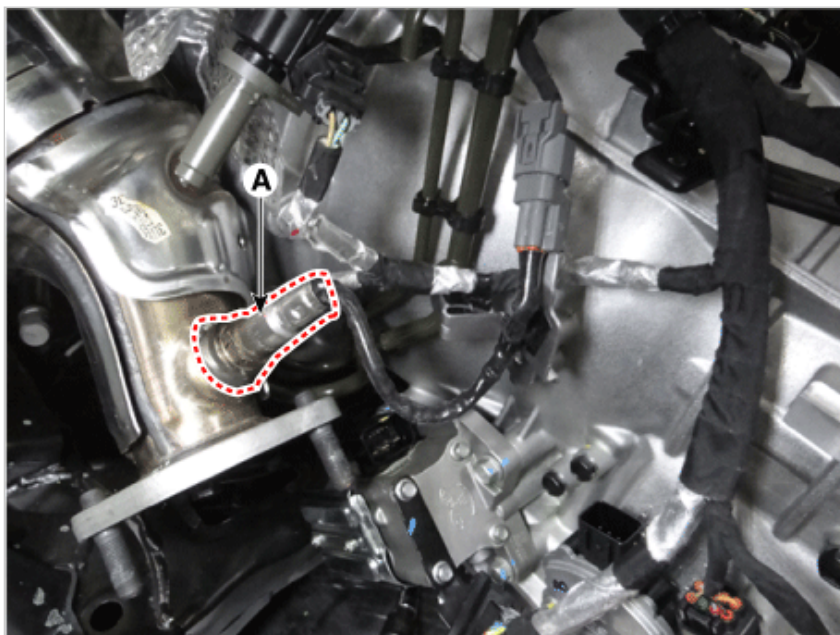
**Tightening torque :**

34.3 - 41.2 N·m (3.5 - 4.2 kgf·m, 25.3 - 30.4 lb·ft)

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16. Remove the heated oxygen sensor(A).

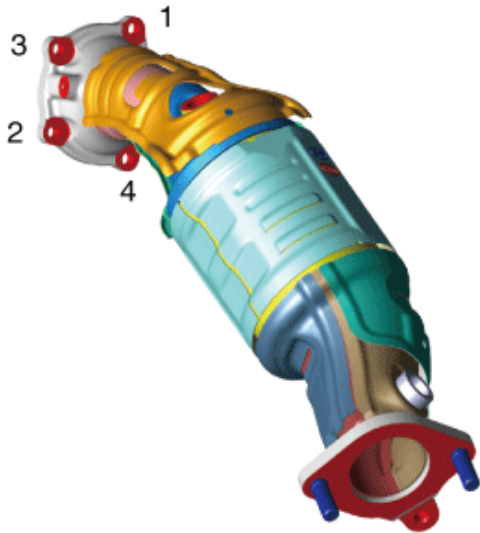


17. Remove the LH warm-up catalytic converter (WCC)(A).



#### NOTICE

When installing the LH warm-up catalytic converter (WCC), tighten the nuts with pre-torque first, and then tighten the nuts with specified torque in the sequence shown.



## [WCC, Bank 2]

1. Switch "OFF" the ignition and disconnect the negative (-) battery terminal.
2. Remove the RH air cleaner.  
(Refer to Engine Mechanical System - "Air Cleaner")
3. Remove the cowl top cover.  
(Refer to Body (Interior and Exterior) - "Cowl Top Cover")
4. Remove the heated oxygen sensor (Bank 1/Sensor 1).  
(Refer to Engine Control / Fuel System - "Heated Oxygen Sensor (HO2S)")
5. Drain the coolant.  
(Refer to Engine Mechanical System - "Coolant")
6. Remove the front muffler.  
(Refer to Engine Mechanical System - "Muffler")
7. Remove the front sub frame.  
(Refer to Suspension System - "Sub Frame")
8. Remove the RH turbo manifold module heat protector (A).

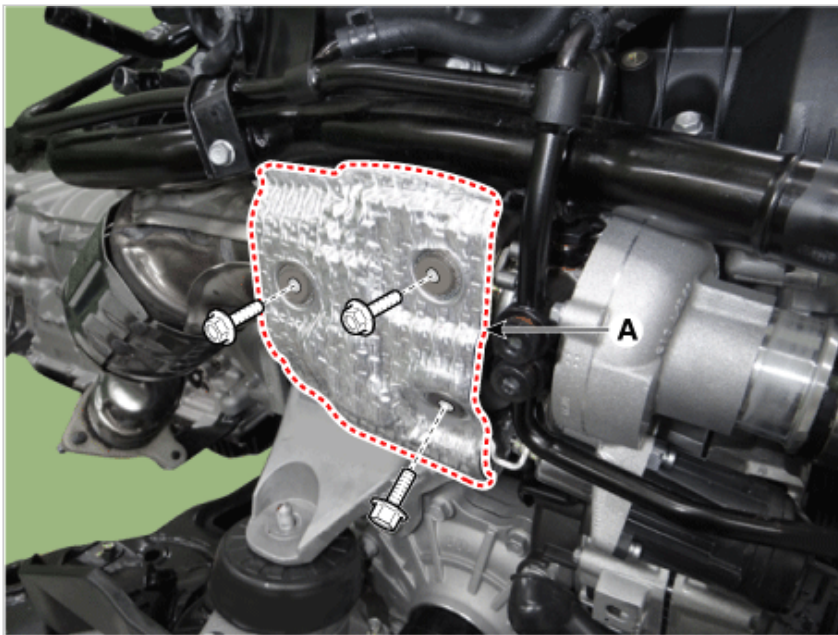
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**Tightening torque :**

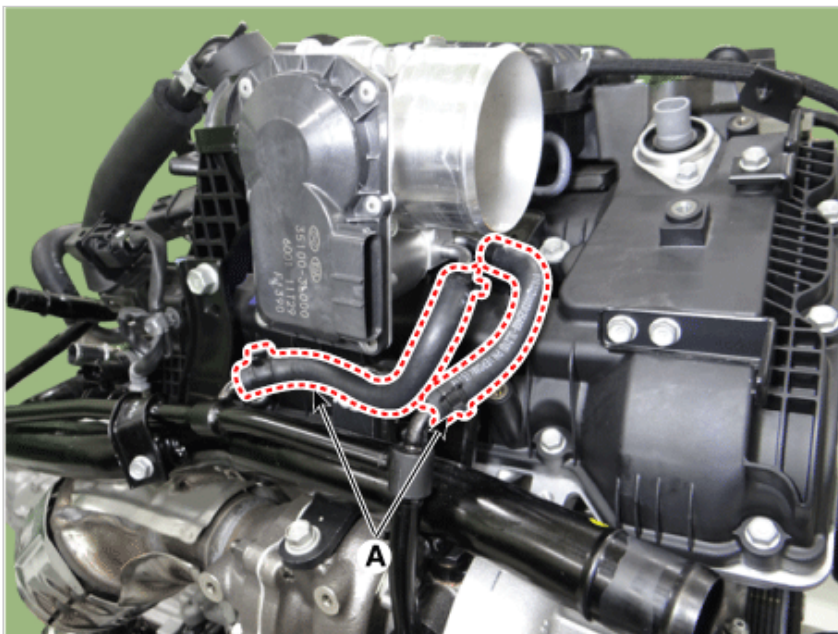
9.8 - 11.8 N·m (1.0 - 1.2 kgf·m, 7.2 - 8.7 lb·ft)

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9. Disconnect the electric throttle control (ETC) module water hose (A).



10. Remove the RH turbocharger water hose & pipe (A)

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**Tightening torque**

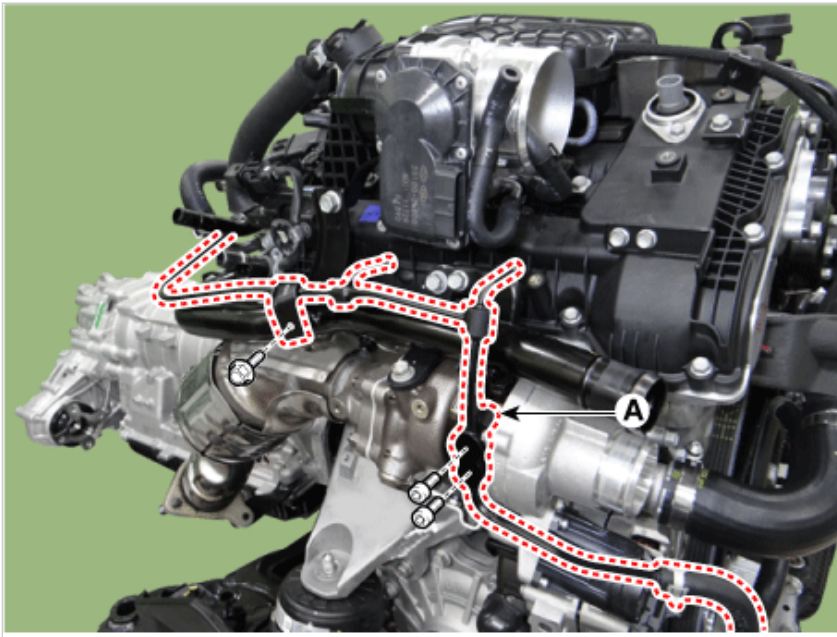
Eye bolts :

33.3 - 39.2 N·m (3.4 - 4.0 kgf·m, 26.6 - 28.9 lb·ft)

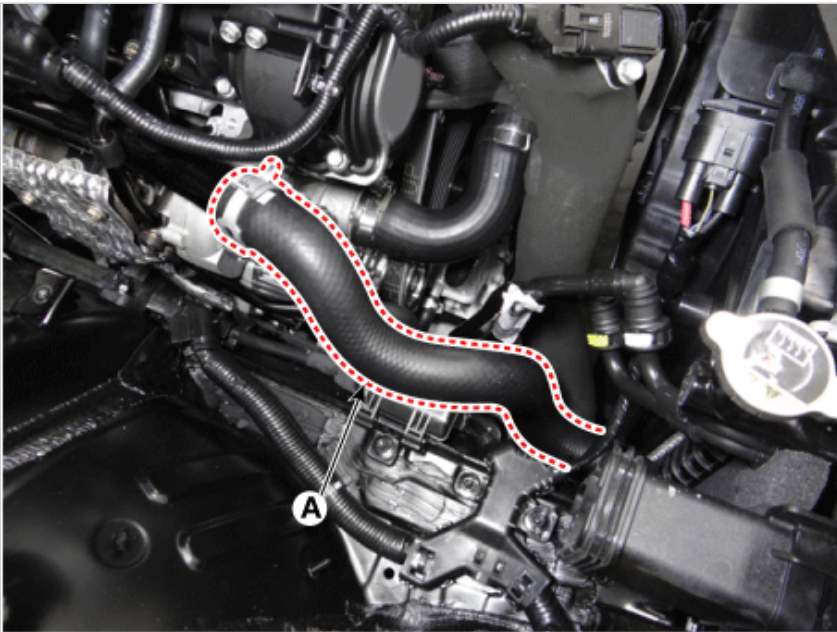
Bolt :

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

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11. Disconnect the radiator lower hose (A).



12. Disconnect the heater hoses (A).





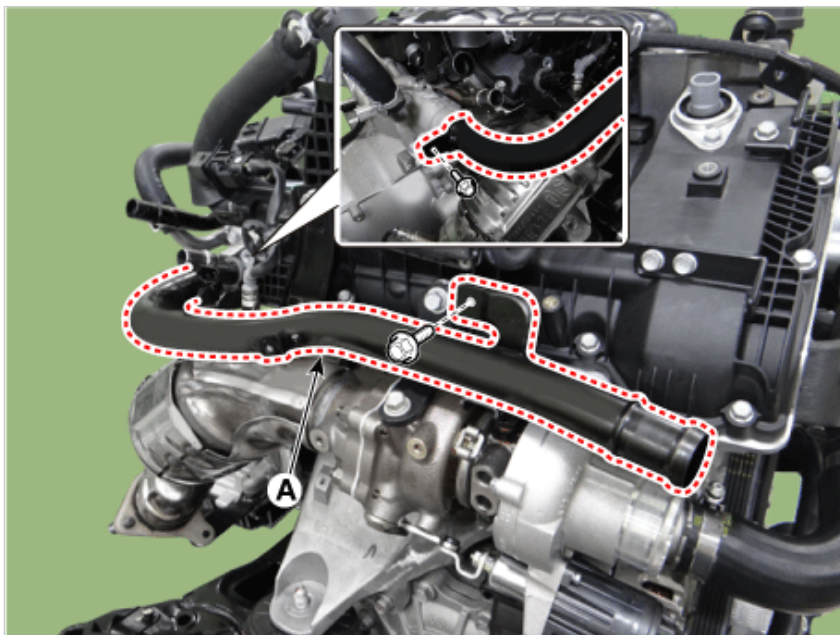
13. Remove the water inlet pipe (A).

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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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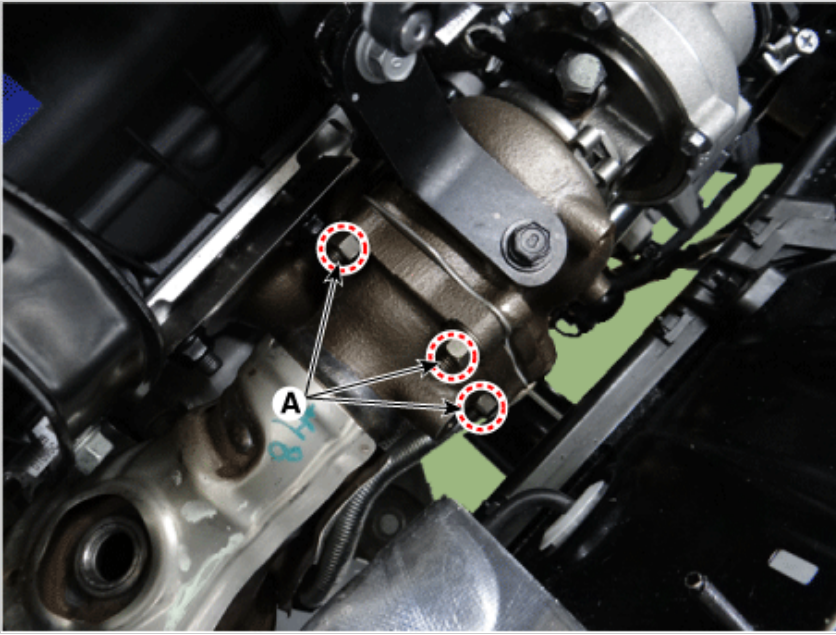
14. Remove the RH warm-up catalytic converter (WCC) (A).

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**Tightening torque :**

35.3 - 41.2 N·m (3.6 - 4.2 kgf·m, 26.0 - 30.4 lb·ft)

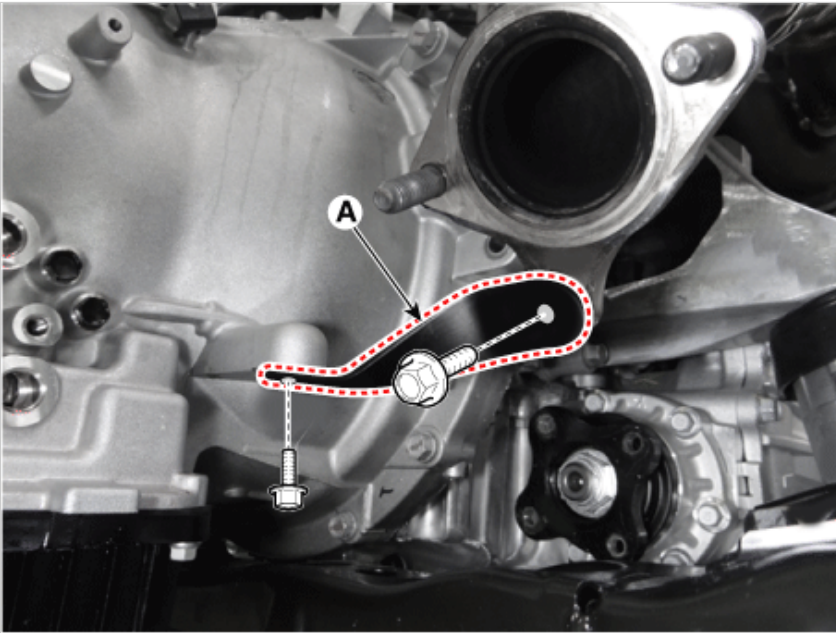
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15. Remove the RH warm-up catalytic converter (WCC) stay (A).

**Tightening torque :**

34.3 - 41.2 N·m (3.5 - 4.2 kgf·m, 25.3 - 30.4 lb·ft)



16. Remove the heated oxygen sensor (Bank 1/Sensor 2).  
(Refer to Engine Control / Fuel System - " Heated Oxygen Sensor (HO2S)" )
17. Remove the RH warm-up catalytic converter (WCC) stay (A).

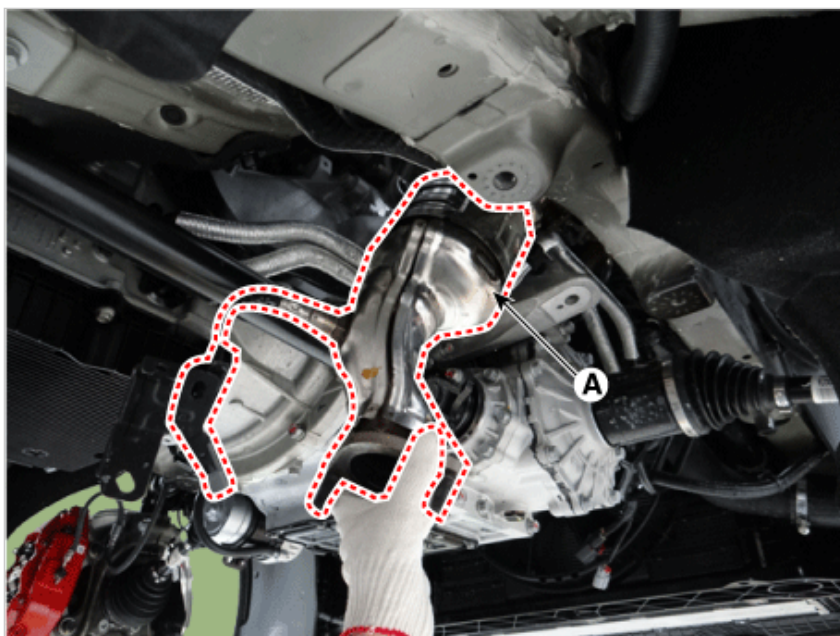
**Tightening torque :**

35.3 - 41.2 N·m (3.6 - 4.2 kgf·m, 26.0 - 30.4 lb·ft)





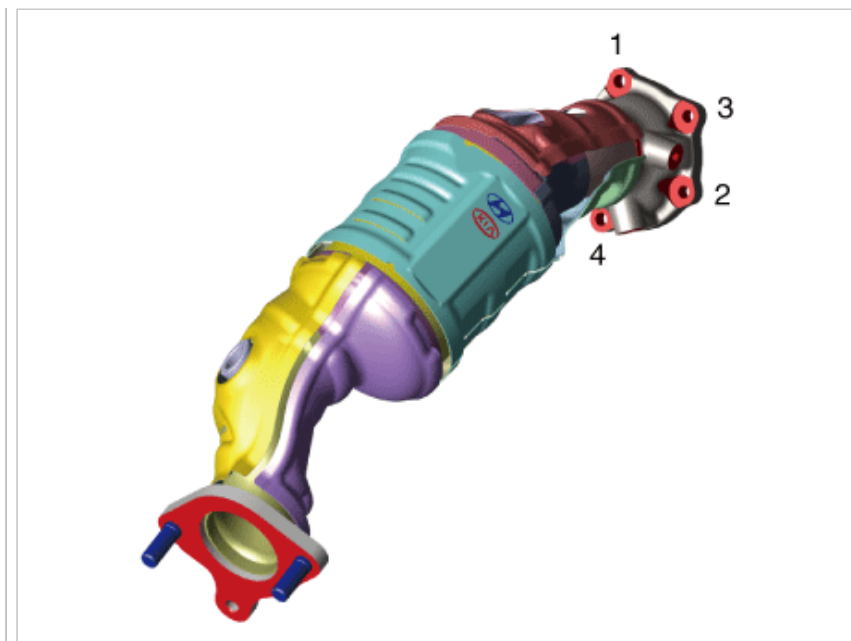
18. Remove the LH warm-up catalytic converter (WCC)(A).



#### NOTICE

When installing the RH warm-up catalytic converter (WCC), tighten the nuts with pre-torque first, and then tighten the nuts with specified torque in the sequence shown.



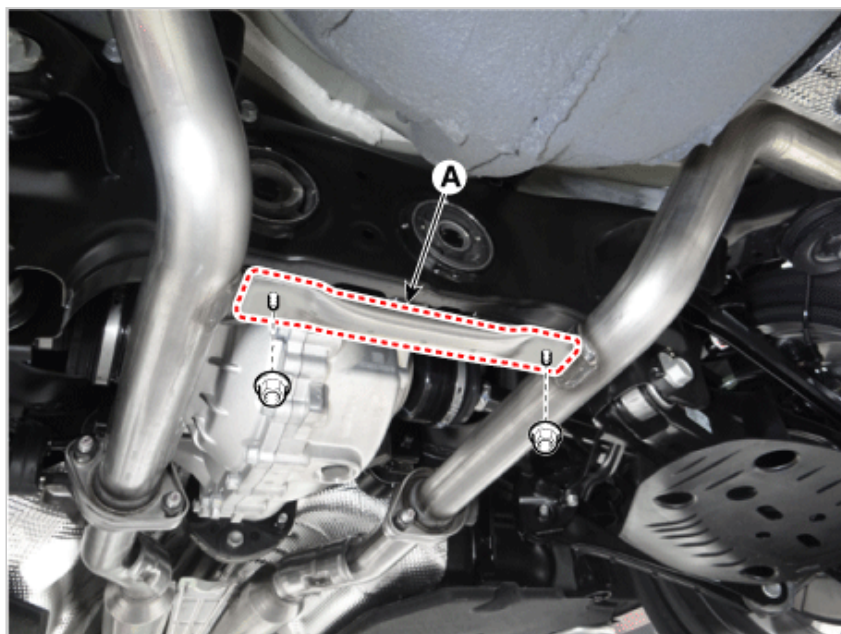


### [UCC Bank 1]

1. Remove the rear muffler bracket (A).

#### **Tightening torque :**

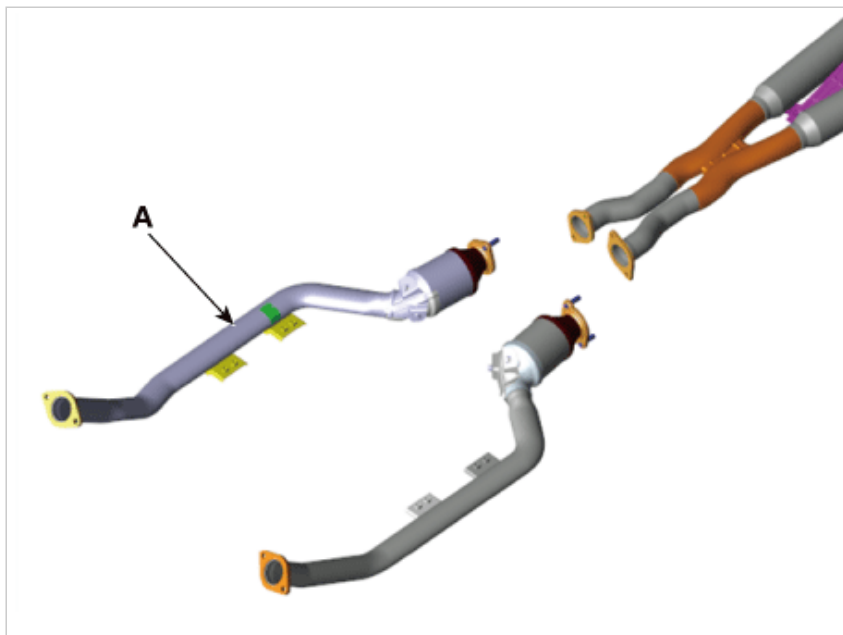
29.4 - 39.2 N·m (3.0 - 4.0 kgf·m, 21.7 - 28.9 lb·ft)



2. Remove the RH front muffler (A).

#### **Tightening torque :**

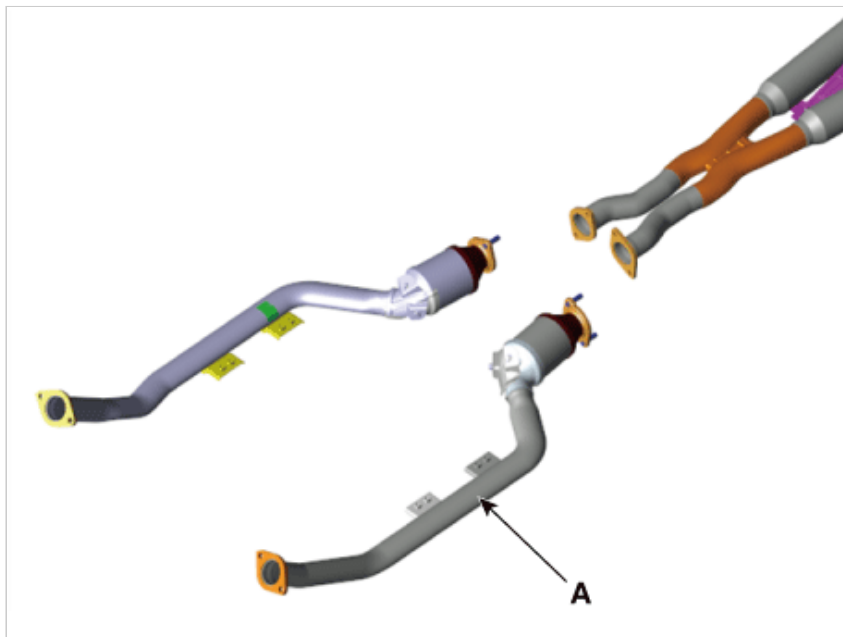
39.2 - 58.8 N·m (4.0 - 6.0 kgf·m, 28.9 - 43.4 lb·ft)



3. Remove the LH front muffler (A).

**Tightening torque :**

39.2 - 58.8 N·m (4.0 - 6.0 kgf·m, 28.9 - 43.4 lb·ft)



**NOTICE**

Always use a new muffler gasket.

**Installation**

1. Install in the reverse order of removal.