 <b>HYUNDAI</b>   NEW THINKING. NEW POSSIBILITIES.  <b>Technical Service Bulletin</b>	GROUP	NUMBER
	CAMPAIGN	15-01-006
	DATE	MODEL
	JANUARY 2015	VELOSTER TURBO (FS)
<b>SUBJECT:</b> INTERCOOLER INSPECTION AND REPLACEMENT (SERVICE CAMPAIGN TW8)		

**Description:** On some 15 MY Veloster Turbo (FS) vehicles, the intercooler assembly may have a restriction in the pressure port which may result in reduced engine power and check engine light to illuminate with DTC P0299 (Turbo/super charger – Low Boost).

Follow the procedure outlined in this bulletin to inspect the intercooler and replace it if any restriction is found.

**★ IMPORTANT**

**\*\*\* Dealer Stock Vehicles Only \*\*\***

Dealers must perform this Campaign on all affected vehicles prior to customer retail delivery.

When a vehicle arrives at the Service Department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

**Applicable Vehicles:** Certain 2015 MY Veloster Turbo (FS) vehicles equipped with 1.6T GDI engine.

- Refer to WEBDCS to identify the affected VIN in stock.

**Parts Information:**

Part Name	Part Number	Remark
Intercooler Assembly	28272-2B700	Replace if original part does not pass inspection.

**Warranty Information:**

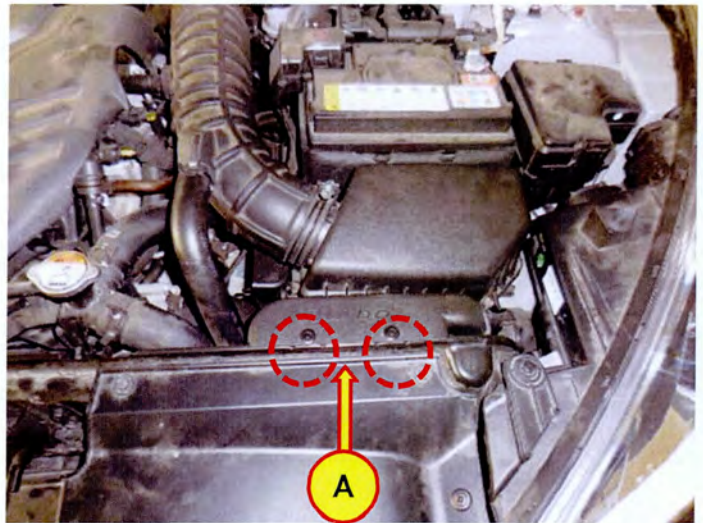
Op Code	Operation	Op Time
40C092R2	INTERCOOLER RESTRICTION INSPECTION	0.3 M/H
40C092R3	INTERCOOLER RESTRICTION INSPECTION AND REPLACEMENT	1.2 M/H



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**Inspection Procedure:**

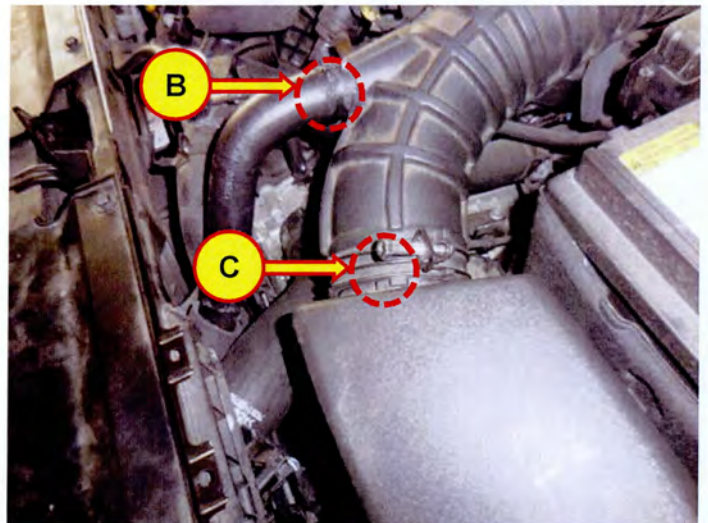
1. Remove the air duct (A).



2. Loosen the clamp (B) and then remove the hose.

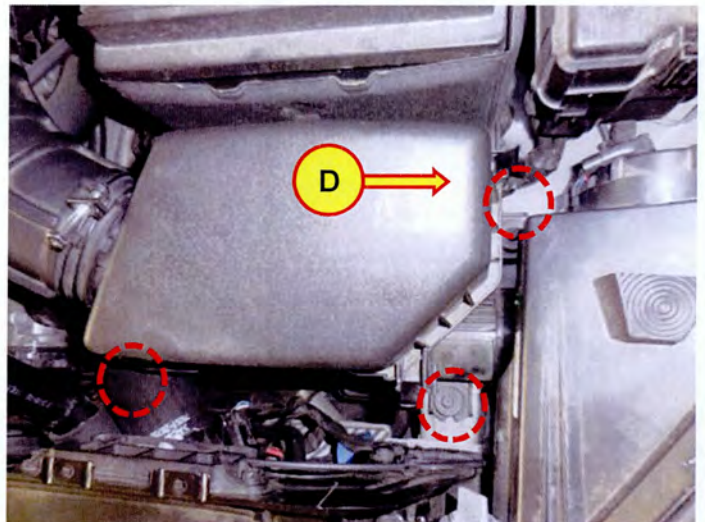
3. Loosen the air cleaner hose clamp bolt (C).

***Tightening torque:***  
***2.8 lb-ft (3.8 Nm)***



4. Remove the air cleaner mounting bolts (D).

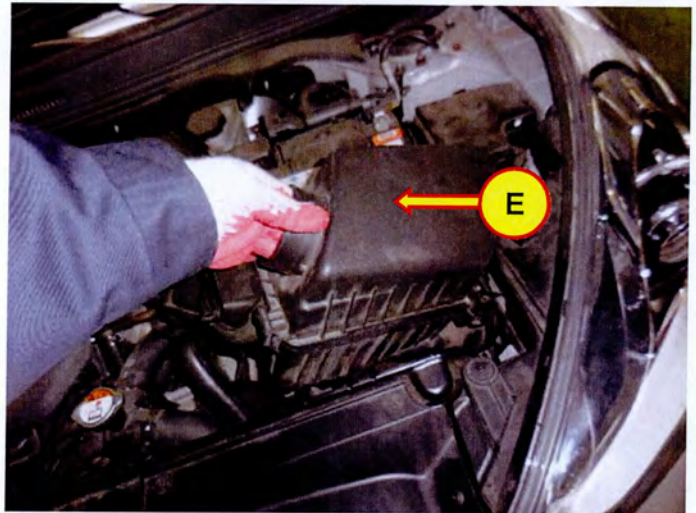
***Tightening torque:***  
***6.4 lb-ft (8.6 Nm)***



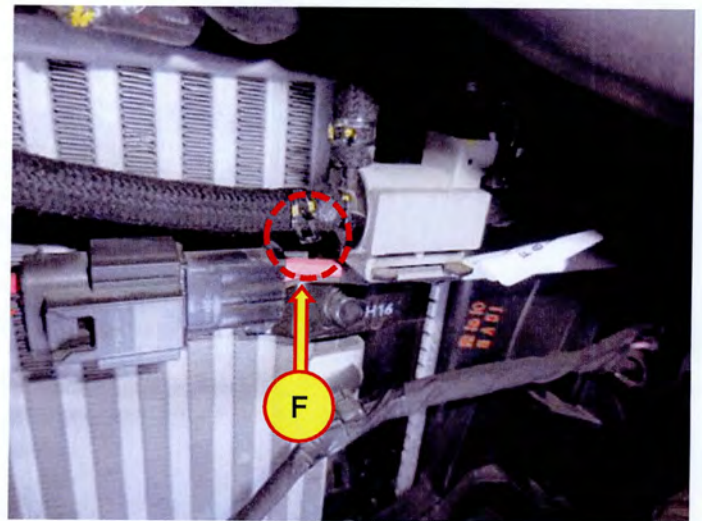
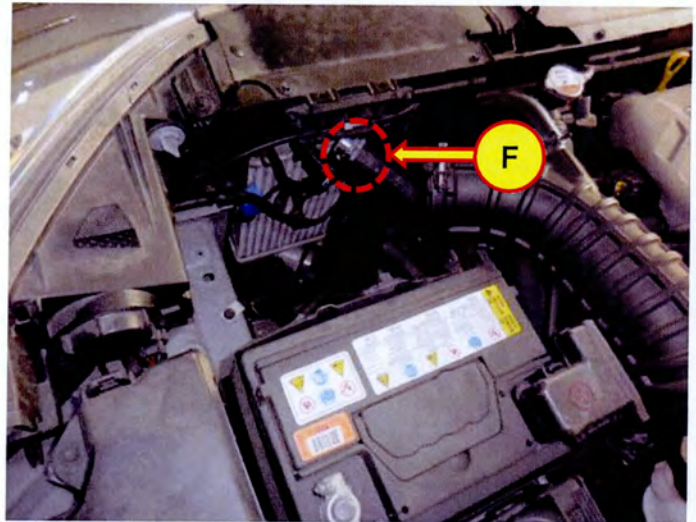


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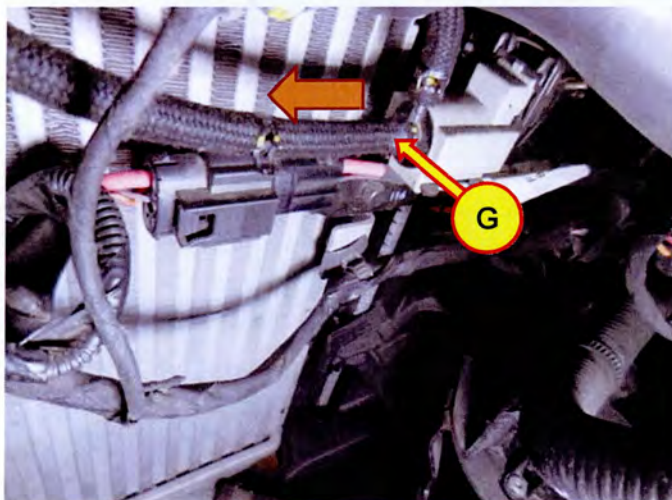
5. Remove the air cleaner (E).



6. Loosen the solenoid valve hose clamp (F).



7. Remove the solenoid valve hose (G).



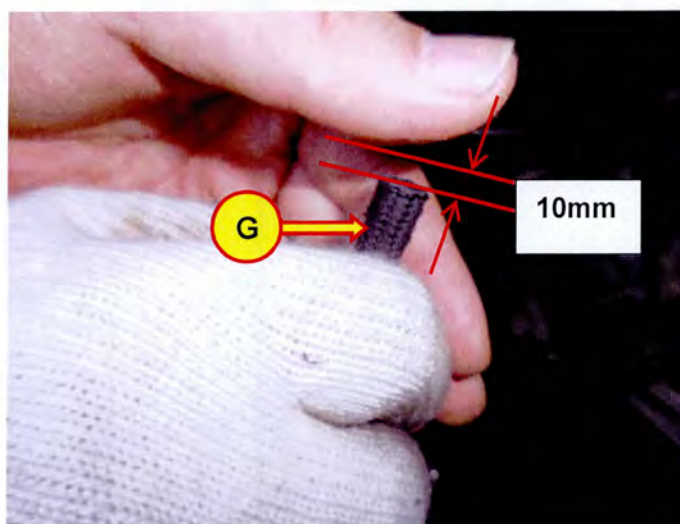
**NOTICE**

*Confirm that the shift lever is in PARK or NEUTRAL position with the parking brake fully engaged before continuing.*

- 8. Start the engine and then press the accelerator to raise the engine rpm up to 2,500 rpm repeatedly from idle.
- 9. Confirm that the charge air from the intercooler is blowing out from the solenoid valve hose (G).

TIP: Place your finger within 10mm from the solenoid valve hose (G) to feel if the air is coming out.

- If you **can** feel the air coming out from the solenoid valve hose (G), then reinstall all the removed parts in reverse order of removal and no further work is needed.
- If you **cannot** feel the air coming out from the solenoid valve hose (G), then replace the intercooler assembly following the Intercooler Replacement Procedure in the following pages.

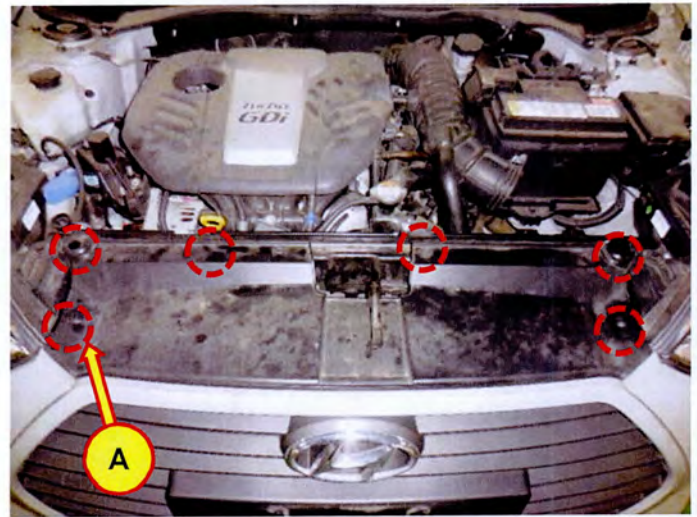




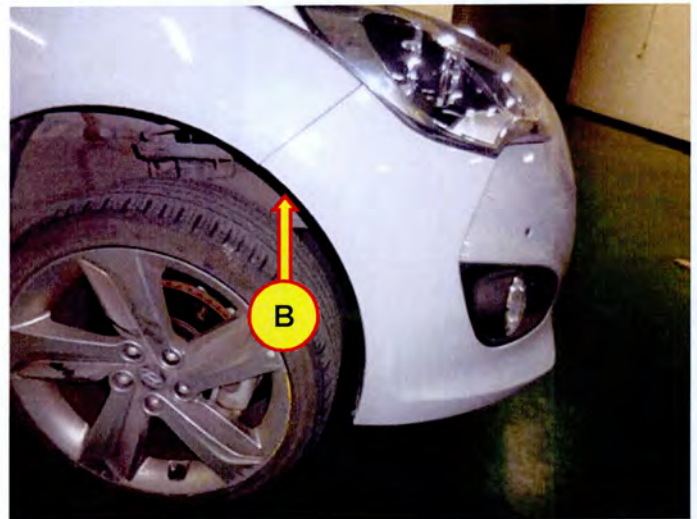
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**Intercooler Replacement Procedure:**

1. Remove the battery negative (-) terminal.
2. Remove the radiator upper mounting clips and screws (A).

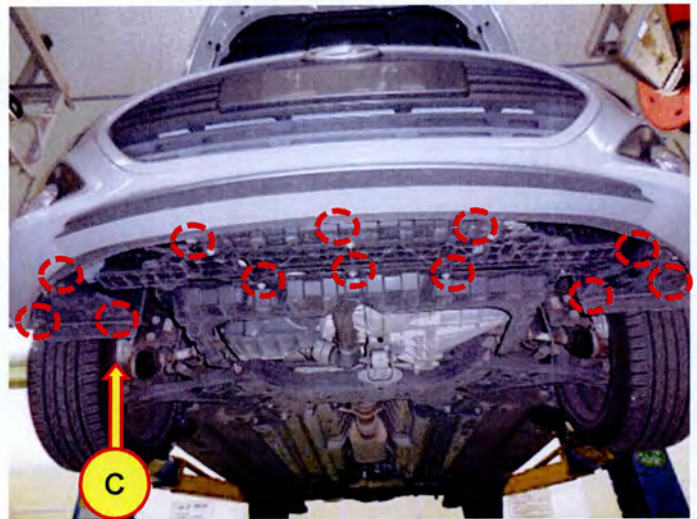


3. Remove the front fascia side mounting screw (B) on both sides.



4. Lift the vehicle on a hoist and then remove the undercover and the mud guard mounting screws and clips (C).

**Tightening torque:**  
**6.4 lb-ft (8.6 Nm)**



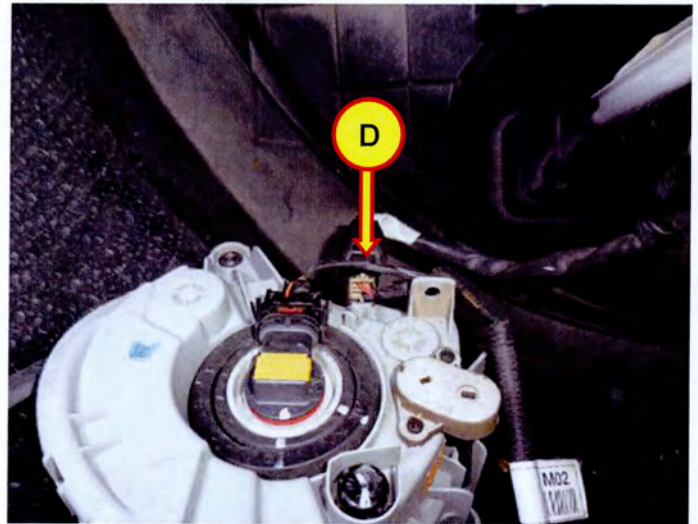


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5. Lower the vehicle and then release the front fascia side locking clip on both sides.



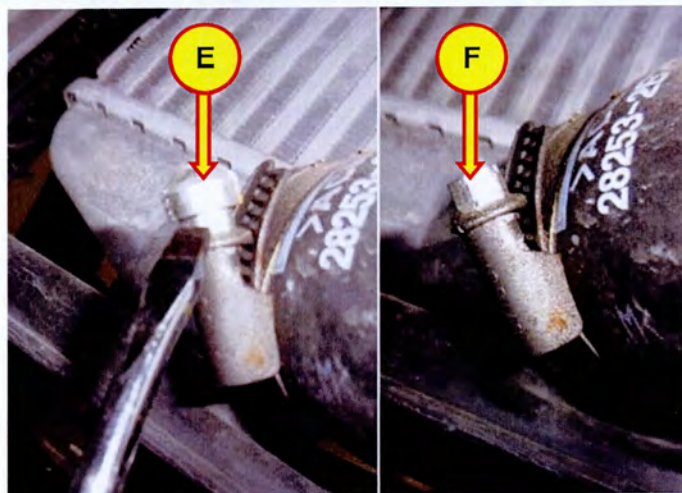
6. Disconnect the fog lamp connector (D) on both sides and then remove the front fascia from the vehicle.





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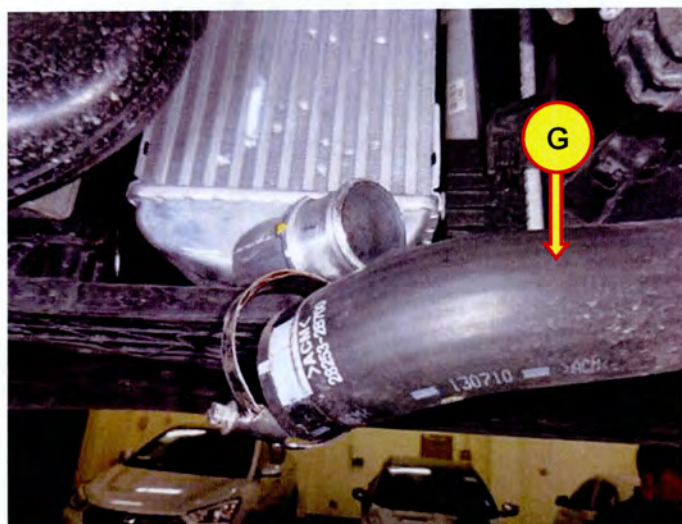
7. Lift the vehicle on a hoist and then remove the intercooler lower inlet hose cap (E).



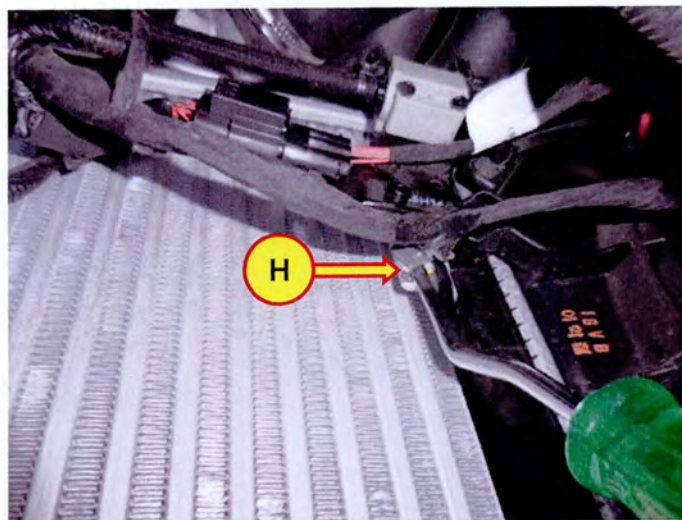
8. Loosen the hose clamp bolt (F).

***Tightening torque:***  
**4.3 lb-ft (5.8 Nm)**

9. Remove the intercooler lower inlet hose (G).



10. Remove the band clip (H) from the intercooler.

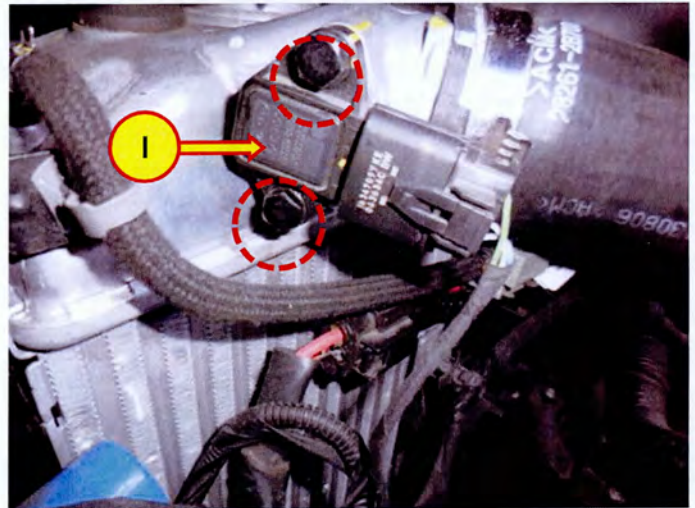




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11. Lower the vehicle and then remove the boost pressure sensor (I) by loosening two mounting bolts.

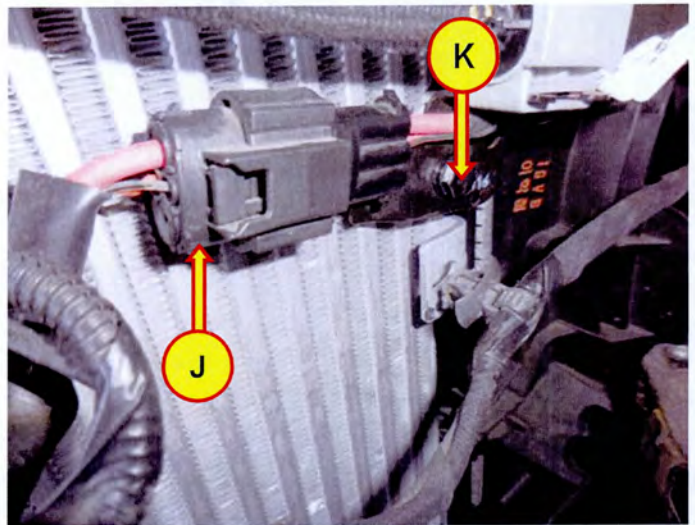
**Tightening torque:**  
**6.4 lb-ft (8.6 Nm)**



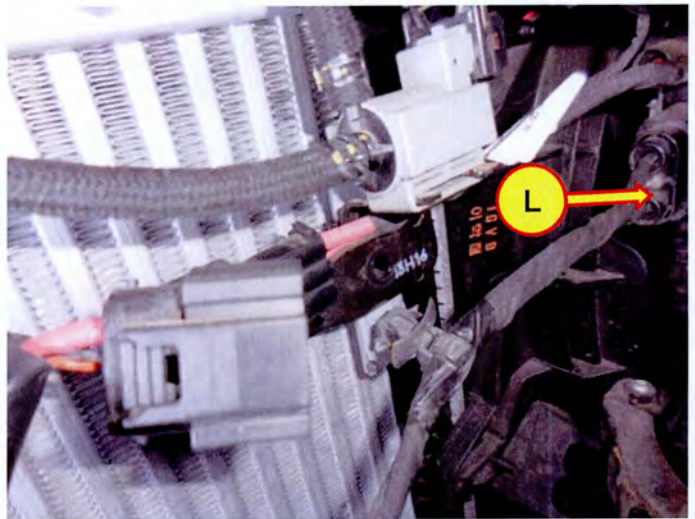
12. Disconnect the cooling fan control connector (J).

13. Remove the solenoid valve mounting bolt (K).

**Tightening torque:**  
**7.9 lb-ft (10.7 Nm)**



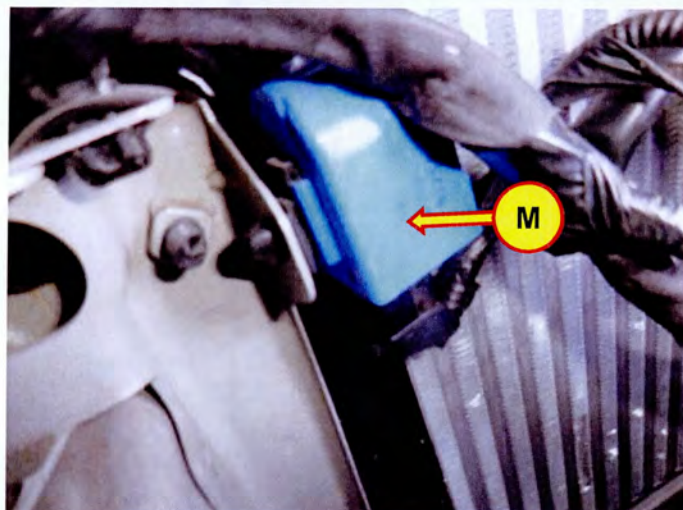
14. Disconnect the cooling fan connector (L).





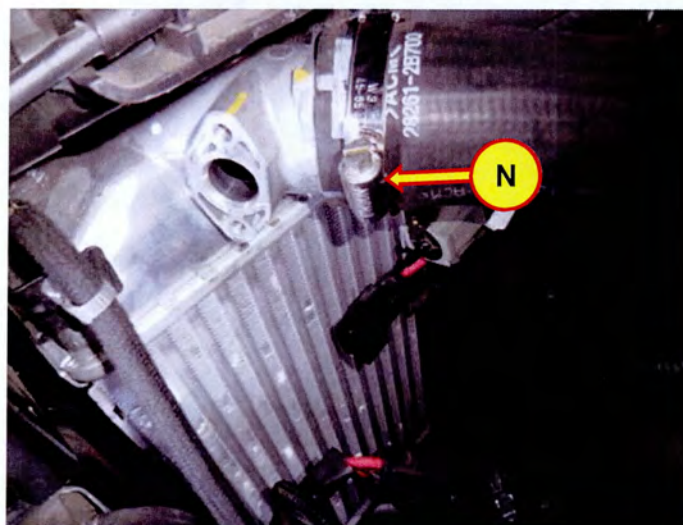
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15. Remove the piezo buzzer assembly (M).

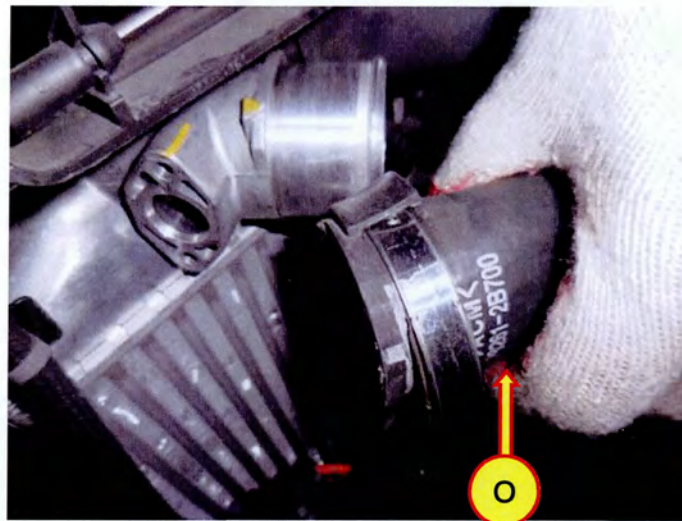


16. Remove the intercooler upper outlet clamp cap (N) and then loosen the clamp bolt (N).

***Tightening torque:***  
**4.3 lb-ft (5.8 Nm)**



17. Remove the intercooler upper outlet hose (O).

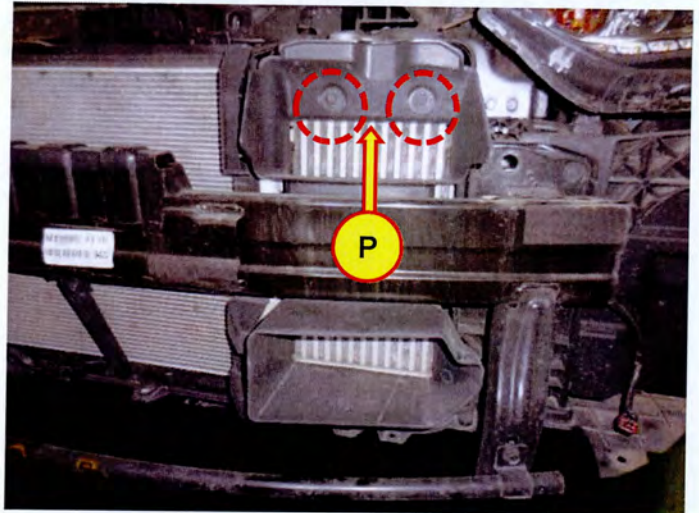




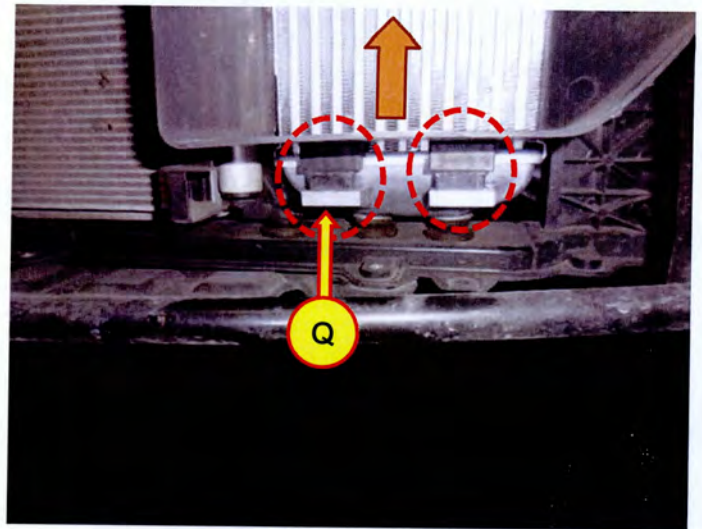
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18. Remove the intercooler air guide mounting screws (P).

**Tightening torque:  
7.9 lb-ft (10.7 Nm)**

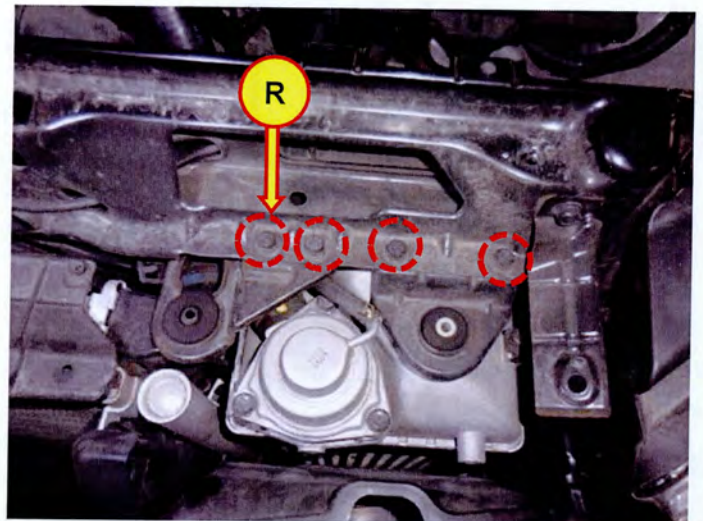


19. Remove the intercooler air guide (Q) by lifting it up.



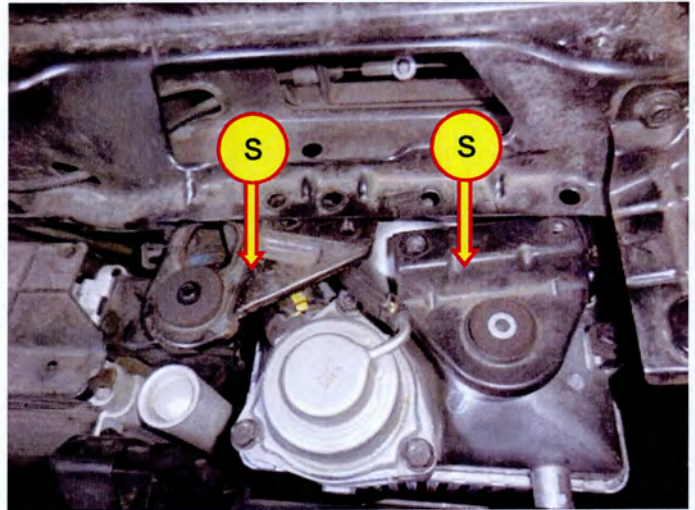
20. Remove the intercooler mounting screws (R).

**Tightening torque:  
7.9 lb-ft (10.7 Nm)**

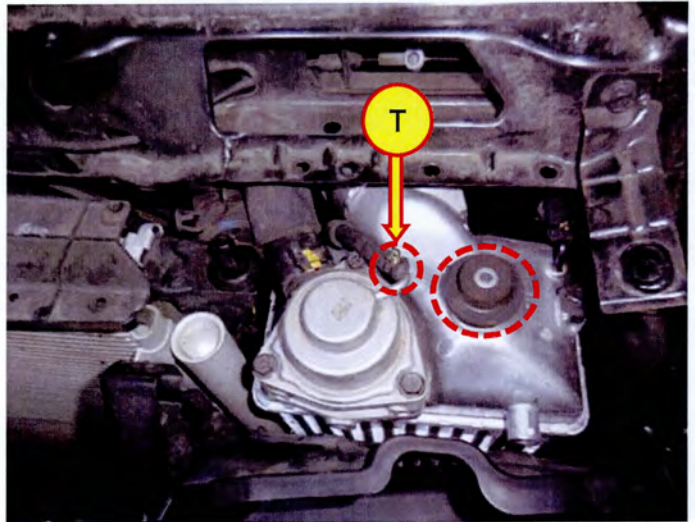




21. Remove the brackets (S).

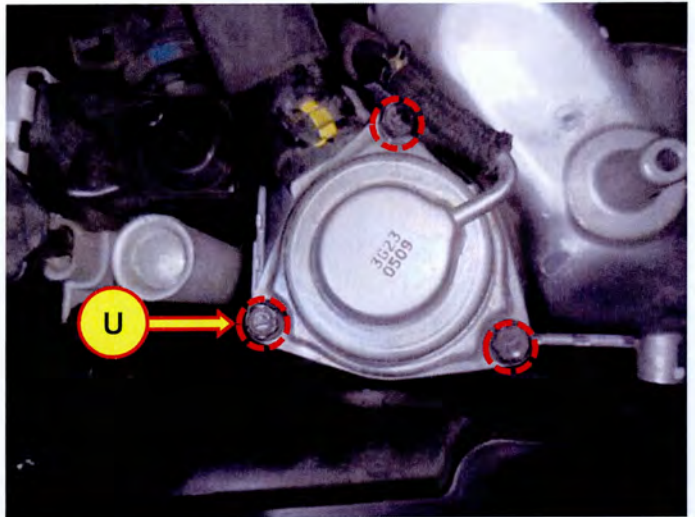


22. Remove recirculating valve hose and bushing (T).



23. Remove the recirculating valve mounting screws (U).

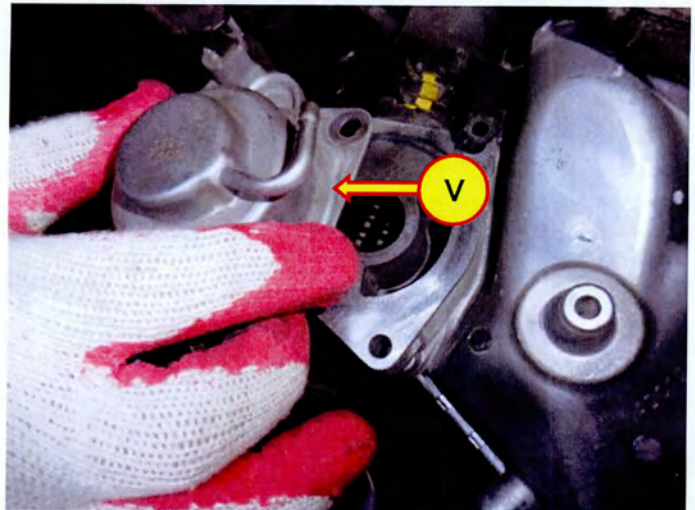
***Tightening torque:  
7.9 lb-ft (10.7 Nm)***



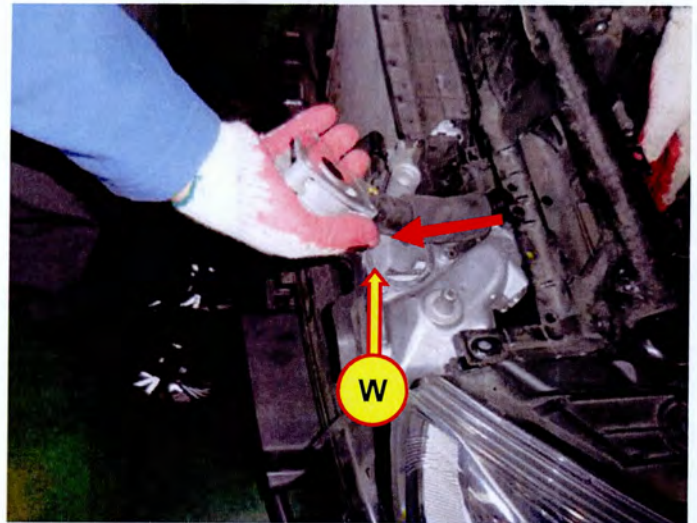


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24. Remove the recirculating valve (V).



25. Remove the adapter (W).



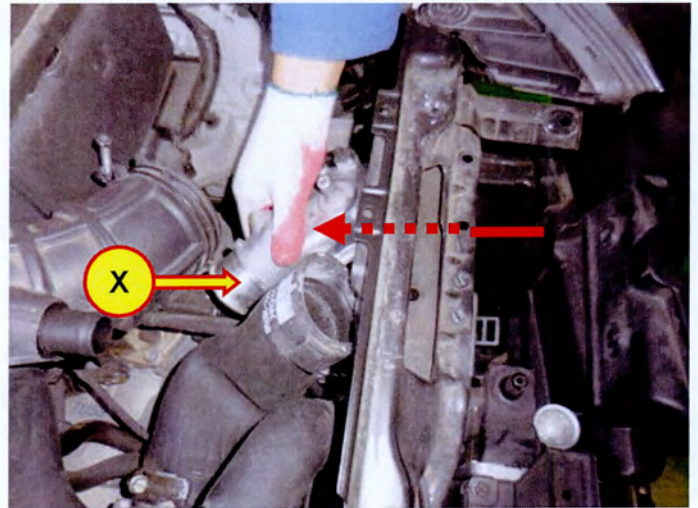
**NOTICE**

*Be sure to reinstall the O-ring seal during the reinstallation of the adapter and RCV.*



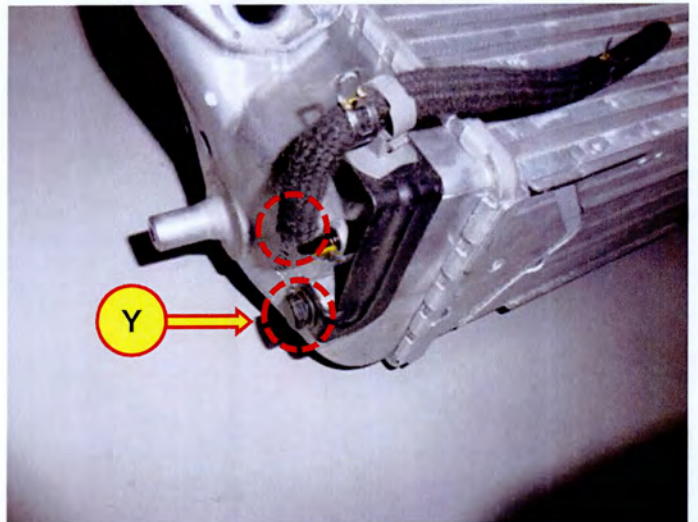


26. Remove the intercooler assembly (X).

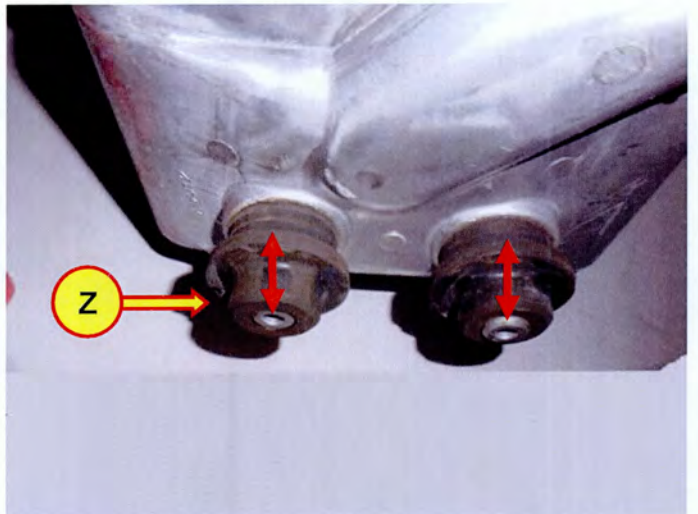


27. Transfer the vacuum hose and the bracket (Y) from the removed intercooler assembly and reinstall them to the new intercooler assembly.

***Tightening torque:***  
**7.9 lb-ft (10.7 Nm)**



28. Transfer the bushings (Z) located at the bottom of the removed intercooler assembly and install them to the new intercooler assembly.





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29. Install the new intercooler assembly to the vehicle.
30. Reinstall all the removed parts in the reverse order of removal.
31. Connect the GDS to the vehicle and erase any related DTC's including history and pending.
32. Clear any related DTC's from the Blue Link system. (Refer to TSB 12-BE-005-2, if necessary.)

