



HYUNDAI | NEW THINKING.
NEW POSSIBILITIES.

Technical Service Bulletin

GROUP CAMPAIGN	NUMBER 16-01-071
DATE DECEMBER 2016	MODEL(S) SONATA 2.0T (YF) SANTA FE SPORT 2.0T (AN)

SUBJECT: THETA 2.0L TURBO OIL FEED HOSE REPLACEMENT
(SERVICE CAMPAIGN T1N)

* IMPORTANT

*** Retail Vehicles Only ***

Dealers must perform this Service Campaign whenever an affected vehicle is in the shop for any maintenance or repair.

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

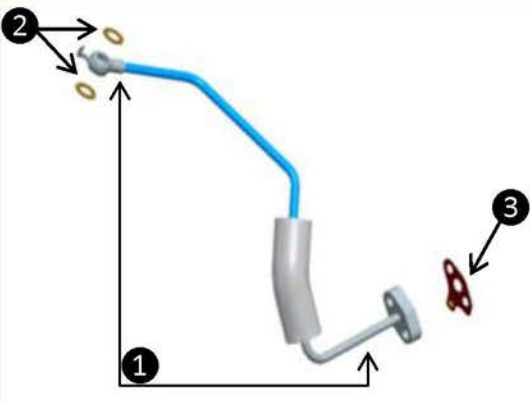
Description: Some Sonata 2.0T (YF) and Santa Fe Sport 2.0T (AN) vehicles may experience a slight leak from the oil feed hose assembly onto the engine undercover directly beneath the hose.

This bulletin provides the service procedure to replace the oil feed hose with a revised service part.

Applicable Vehicles:

- 2011-14 SONATA (YF) 2.0T
- 2013-16 SANTA FE SPORT (AN) 2.0T

Parts Information:

Part Name	Part Number	Comment
OIL FEED HOSE SERVICE KIT	 <p>28240-2G411QQH</p>	Included Contents: 1) Oil Feed Hose (28240-2G411): QTY 1 2) Washer Gaskets (17512-10000): QTY 2 3) Oil Feed Gasket (28246-2G400): QTY 1

Warranty Information:

Model	Op Code	Operation	Op Time	Causal Part	Nature	Cause
SONATA (YF) 2.0T	60CA30R1	OIL FEED HOSE REPLACEMENT	0.5 M/H	28240-2G410	E74	ZZ1
SANTA FE SPORT (AN) 2.0T	60CA30R2		0.6 M/H			

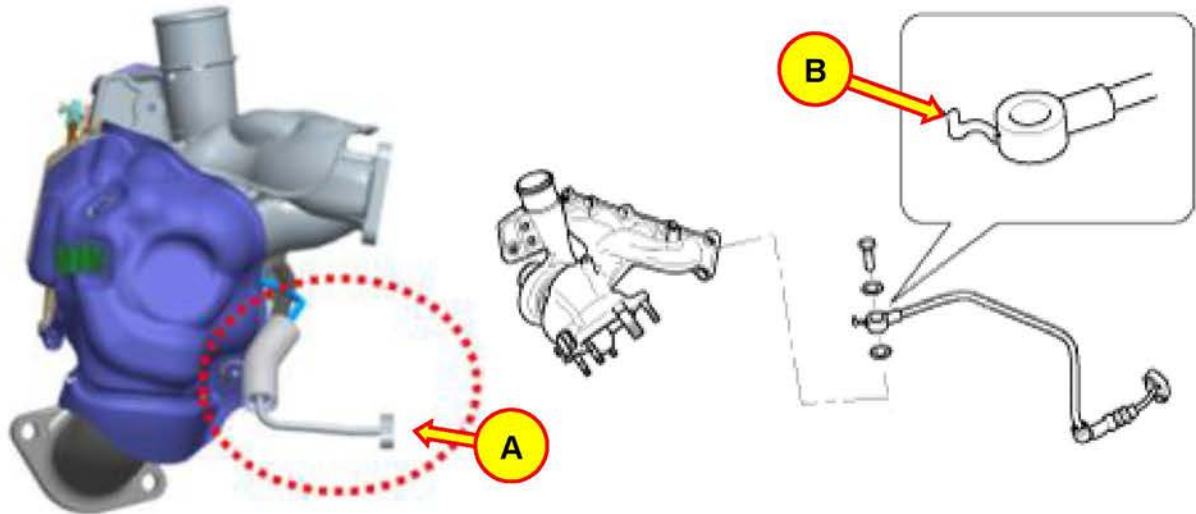
NOTE: Submit Claim on Campaign Claim Entry Screen.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

Service Procedure:

Replace the Oil Feed Hose (A) according to procedure outlined in this bulletin and the applicable Shop Manual.

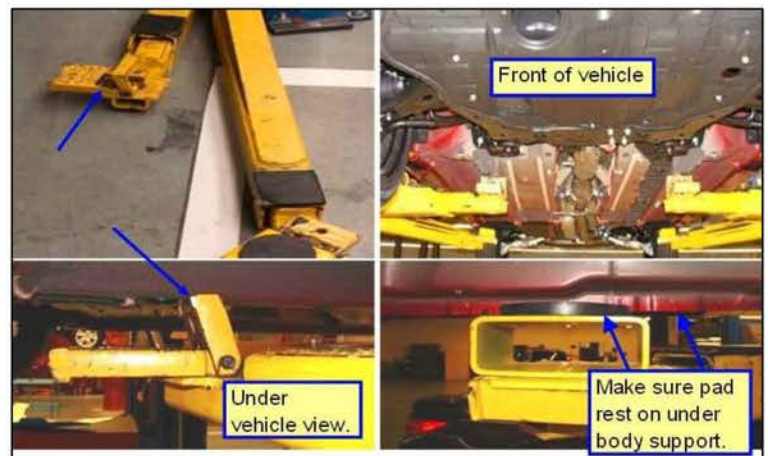
- Engine mechanical -> Intake And Exhaust System -> Exhaust Manifold -> Repair Procedure



NOTICE

- **Make sure the stopper (B) doesn't touch the compressor housing during the installation.**
- **DO NOT reuse the gaskets.**
- **Clean the gasket installing surfaces before the installation of the gaskets.**

1. Secure the vehicle on a lift.
 - Ensure that the vehicle is properly positioned on the lift.
 - Lifting points should not contact any exterior body parts such as the rocker panel.
2. Rotate the steering wheel fully to the left to create more working clearance for later steps.



3. Remove the engine top cover by firmly lifting up at the corners.



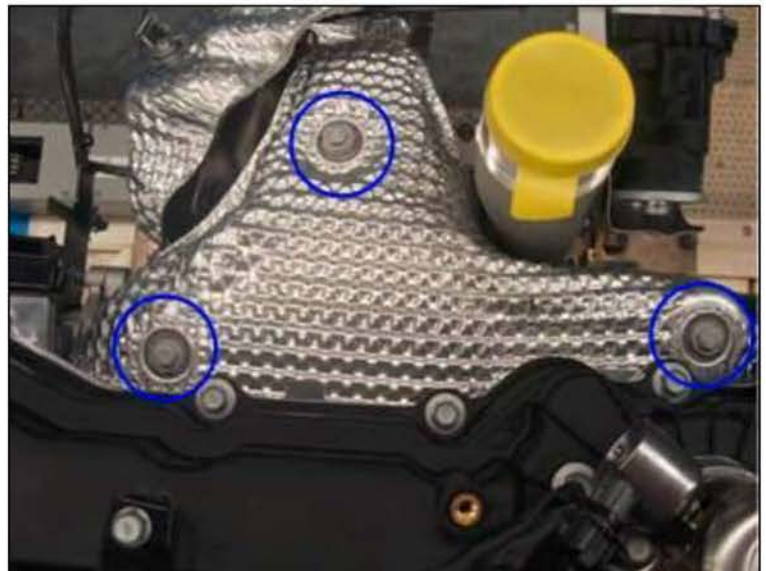
4. Remove the (1) 10mm O2 sensor connector bracket bolt from the cylinder head and move the bracket slightly away from the exhaust manifold.



5. Carefully remove the exhaust manifold heat shield.
 - Remove the (3) 10mm exhaust heat shield bolts and set aside for reuse.
 - Remove the heat shield and set aside for reuse.

NOTICE

During removal of the heat shield, some flexing of the part may be required. However, do not deform the heat shield by creasing or folding it.



6. Locate the oil feed hose connection point at the turbocharger.

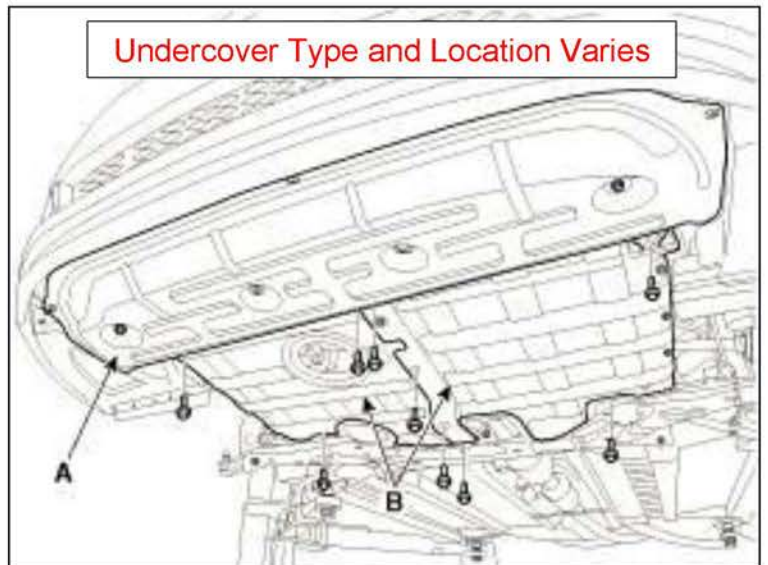


7. Remove the (1) 17mm banjo bolt and (2) copper sealing washers.
- Retain the banjo bolt for later reuse.
 - Discard the (2) old copper sealing washers and be sure to use (2) new copper washers during reassembly.



8. Lift the vehicle to a suitable height for under vehicle work.

9. Remove the undercovers. (Configuration of the undercover varies by model and model years.)
- Carefully lower and set aside the undercover sections away from the work area for later reinstallation.



10. Locate the oil feed pipe connection point at the engine block.



11. Place a shop towel under the connection flange to capture any residual oil that may drain from the cylinder block during oil pipe disconnection.

12. Remove the (2) 10mm nuts retaining the oil feed hose to the cylinder block.
- Retain the (2) 10mm nuts for reuse.



13. Carefully remove the oil feed hose.

14. Remove and discard the old feed gasket completely from the cylinder block.
- Be sure to thoroughly clean the mating surface on the cylinder block for the new oil feed gasket.



15. Lower the vehicle.

16. Position the new oil feed hose to the turbocharger and the engine block.
17. Wipe clean and install the (2) copper sealing washers and finger tighten the banjo bolt to the turbocharger (it will be torqued later).

NOTICE

Copper washers must be installed (1) above and (1) below the banjo fitting when the banjo bolt is hand threaded into the turbocharger.



18. Lift the vehicle to a suitable height for under vehicle work.
19. Install a new feed gasket to the feed flange mounting location on the cylinder block.

NOTICE

The tab on the gasket must point down (as shown).



20. Install the oil feed hose lower connection flange over the studs and gasket on the cylinder block.
 - Recheck that the tab on the gasket is pointing down.
 - Install the (2) 10mm nuts and tighten to 87 lb-in (1.0 kgf.m).
 - Remove any shop towels previously placed under the connection flange to soak up the residual oil.

NOTICE

Use degreaser to clean any residual or spilled oil.



21. Lower the vehicle.
22. Tighten the banjo bolt at the turbocharger to 130 lb-in (1.5 kgf.m).

NOTICE

Use degreaser to clean any residual or spilled oil.



23. Install the upper heat shield.
24. Tighten the (3) 10mm heat shield bolts to 87 lb-in (1.0 kgf.m).
25. Reinstall the O2 sensor connector bracket and the (1) 10mm bolt to the cylinder head.
 - Tighten the O2 sensor connector bracket bolt to 87 lb-in (1.0 kgf.m).
26. Position the O2 sensor harness into the spacer clip at the white mark and ensure that the remaining harness does not touch the heat shield (as shown below).



27. Start the engine and allow the engine to warm up for several minutes.
28. Inspect the oil feed hose connection points from above and below the engine (at the turbocharger and the block) for any oil leaks.
29. After all leak point inspections are complete, reinstall both the engine top cover and undercovers.
30. After the engine has been turned off for a few minutes, check engine oil level.
 - If the engine oil level on the dipstick is above the L (LOW) level up to F (FULL), then **no adjustment is required**. (Refer to TSB 10-EM-001 for details.)