

GROUP CAMPAIGN	NUMBER 19-01-012H
DATE JULY 2019	MODEL(S) TUCSON (LM)

SUBJECT: TUCSON 2.4L ENGINE INSPECTION /
OIL PRESSURE SWITCH AND OIL PAN INSTALLATION
(RECALL CAMPAIGN 181)

★ IMPORTANT

***** Retail Vehicles *****

Dealers must perform this Campaign on all affected vehicles 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: Certain 2011-2013 MY Tucson vehicles equipped with 2.4L engines may have an engine oil leak from the seal between the oil pan and engine block which, if left unrepaired and operated over time, could eventually lead to engine damage. A damaged engine could lead to a high-speed stall and, in limited cases, a vehicle fire. This bulletin describes the procedure to install an updated oil pressure switch and, if necessary based on vehicle inspection, an oil pan.

The updated oil pressure switch is designed to detect low oil volume and prevent potential engine damage or failure due to an engine oil leak. If the oil pressure light comes on after the updated oil pressure switch is installed, verify the engine oil level and quality, check for oil leaks, and change the engine oil if needed.

Applicable Vehicles:

Certain 2011-2013 MY Tucson (LM) vehicles equipped with 2.4L engines

SST Information:

Part Name	Part Number / Figure	Note
OIL PAN REMOVER	 09215-3C000	Place orders through Bosch at 1-866-539-4248.

Part Information:

Part Name	Part Number / Figure	Qty	Note
OIL PRESSURE SWITCH	 94750-37200QQH	1	
OIL PAN KIT	 21510-2G500QQH	1	Only required based on vehicle inspection. Kit includes bolts for installation.
SEALANT	00232-19061	1	For oil pan replacement: 1 tube of sealant is required per vehicle
CAULKING GUN	00232-19064	1	Existing shop tool

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART NO.	NATURE CODE	CAUSE CODE
11-13MY TUCSON (LM)	91C012R0	OIL PAN INSPECTION AND OIL PRESSURE SWITCH REPLACEMENT	0.6 M/H	94750- 37200 QQH	E74	ZZ3
	91C012R1	OIL PAN INSPECTION AND OIL PRESSURE SWITCH AND OIL PAN REPLACEMENT	1.3 M/H			
	91C012R2	OIL PAN INSPECTION AND OIL PAN REPLACEMENT (SEE NOTE #4 BELOW)	1.1 M/H			

NOTE 1: Submit Claim on Campaign Claim Entry Screen

NOTE 2: If a part is found in need of replacement while performing this campaign and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part(s) are out of warranty, submit a Prior Approval (PA) request for goodwill consideration prior to completing the Campaign.

NOTE 3: OP CODES 91C012R1 and 91C012R2 include reimbursement for 5 quarts of oil.

NOTE 4: OP CODE 91C012R2 can only be used if the vehicle returns with an oil pan leak after OP CODE 91C012R0 was completed.

Service Procedure:

OIL PAN INSPECTION:

1. Lift the vehicle and remove the undercover (A).



2. Inspect for engine oil leakage from the engine oil pan.

If there is evidence of oil leakage (past or present):

Replace the oil pressure switch and oil pan according to the following service procedure.

If there is NO evidence of oil leakage:

Replace the oil pressure switch according to the following service procedure.

NOTE:

If the oil pressure switch was previously replaced using OP Code 91C012R0 for this campaign and the oil pan is now leaking, replace the oil pan only using OP CODE : 91C012R2.

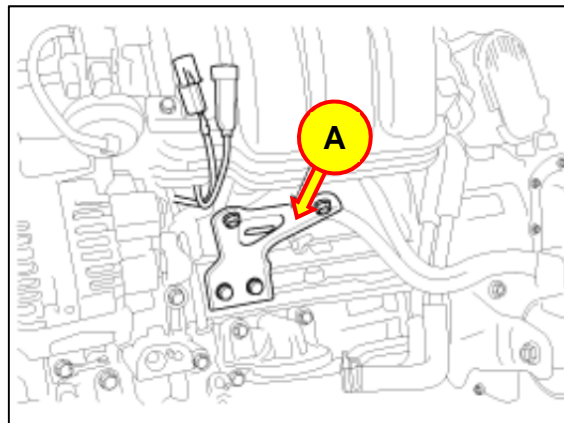


OIL PRESSURE SWITCH REPLACEMENT:

1. Loosen the the intake manifold stay bolts and remove the intake manifold stay (A).

Tightening torque:

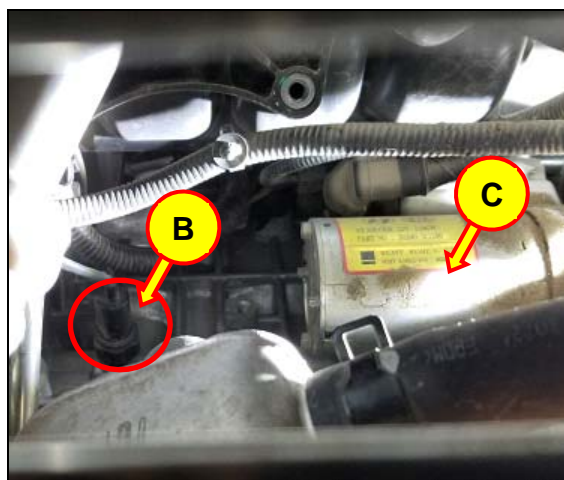
18.6 ~ 23.5N.m (1.9 ~ 2.4kgf.m, 13.7 ~ 17.4lb-ft)



2. Replace the oil pressure switch (B) with a new one and reinstall the removed parts in reverse order of removal. The oil pressure switch is located near the back of the starter (C).

Tightening torque:

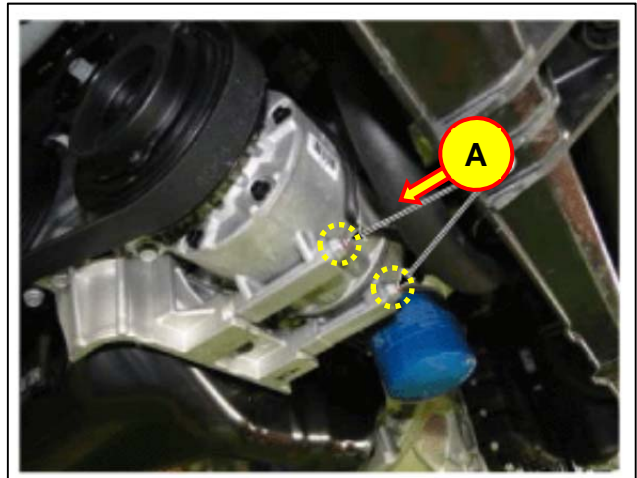
7.8 ~ 11.8N.m (0.8 ~ 1.2kgf.m, 5.8 ~ 8.7lb-ft)



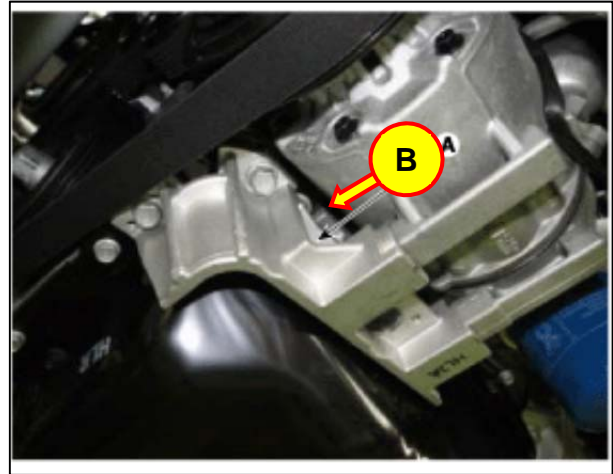
3. Check for DTCs and perform the appropriate diagnostic service. Ensure no warning lights are present to complete the procedure.

**OIL PAN REPLACEMENT:
(Only if necessary based on oil pan inspection)**

1. Remove the oil filler cap and oil drain plug and drain the engine oil.
2. Loosen the A/C compressor lower mounting bolts (A).



3. Loosen the bolts and remove the A/C compressor bracket (B).



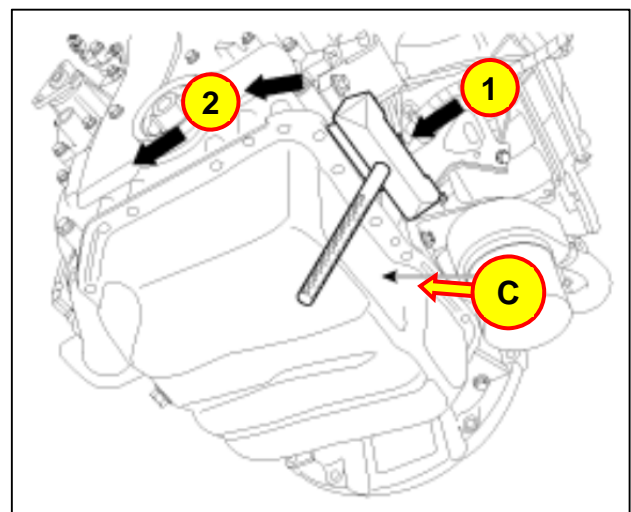
4. Remove the oil pan bolts. Then insert the SST (09215-3C000) between the ladder frame and oil pan (C) and gently remove the oil pan.

NOTICE

Insert the SST between the oil pan and the ladder frame by tapping it with a plastic hammer in the direction of (1).

Tap the SST with a plastic hammer around the perimeter of the oil pan in the direction of (2) to remove it.

Do not move the SST without tapping (SST could be damaged).



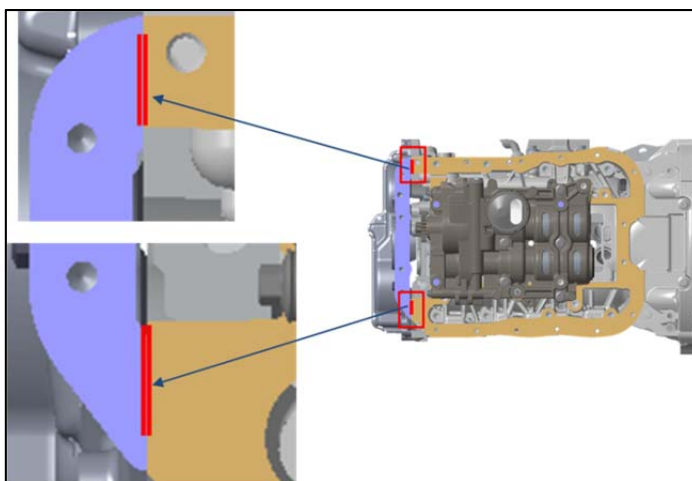
5. Remove ALL the old sealant from the engine.
The mating surface with the oil pan should be completely free of any old sealant or debris.

NOTICE

The new oil pan could leak if the old sealant is not completely removed.

6. Apply sealant at the two mating sections of the ladder frame and chain cover as shown.

Bead width : 2.5 mm



7. Apply sealant to the new oil pan flange surface as shown in the diagram.

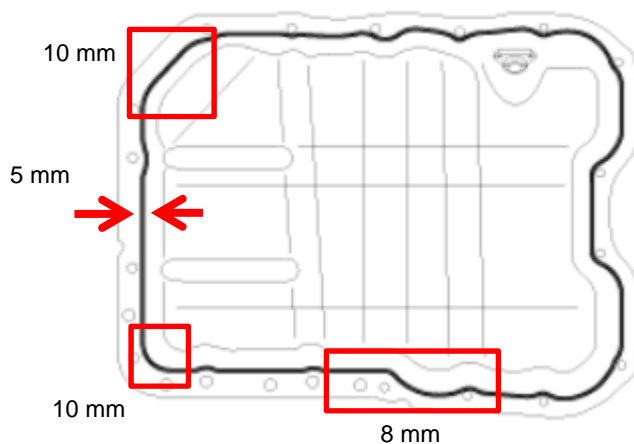
Bead width : 2.5 ~ 3.0mm

NOTICE

Tighten the oil pan bolts within 5 minutes of applying the sealant.

Sealant should not protrude into the inside of the oil pan.

To prevent leakage of oil, apply sealant on the inner threads of the bolt holes.



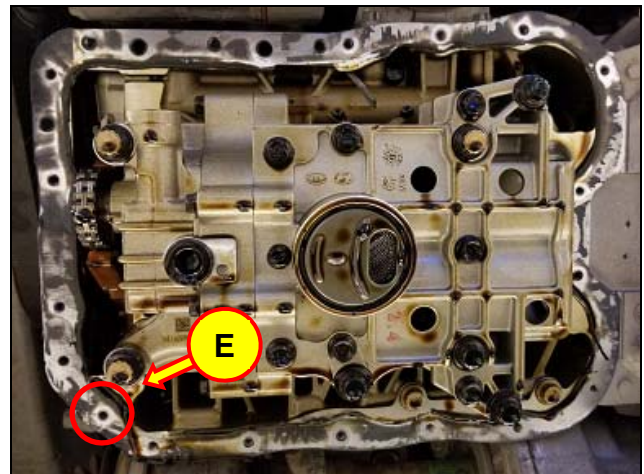
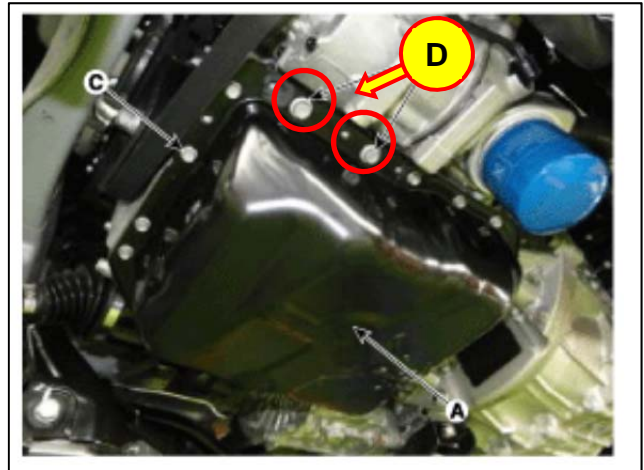
The distance from the center of the bead to the inside wall of the oil pan is 5 mm. For the three specific areas shown, this distance is 8 or 10 mm.

8. Install the new oil pan and tighten the bolts evenly on the perimeter of the oil pan in several passes until torque specification is reached.

NOTE: Do not install bolt (E).

Tightening torque for oil pan M12 bolts (D):
26.5 ~ 30.4N.m (2.7 ~ 3.1 Kgf.m, 19.5~22. 4 lb-ft)

Tightening torque for oil pan M10 bolts:
9.8 ~ 11.8N.m (1.0 ~ 1.2 Kgf.m, 7.2~8.7 lb-ft)



9. Install the A/C compressor bracket and tighten the bolts.

Tightening torque:
19.6 ~ 23.5N.m (2.0 ~ 2.4 Kgf.m, 14.5~17. 4 lb-ft)

10. Reinstall the removed parts in reverse order of removal.

Wait at least 30 minutes after assembling the oil pan before refilling the engine oil.

11. Refill the engine oil referring to the applicable vehicle shop manual.

12. Check for DTCs and perform the appropriate diagnostic service. Ensure no warning lights are present to complete the procedure.