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Coding Information

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Title: PSI 8.8L Oil Pan Removal and Installation Procedure

Applies To: PSI 8.8L LPG Engine

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

04/22/2016 - Initial Article Release

DESCRIPTION

This document will guide the technician through removal and installation of the oil pan on the PSI 8.8L LPG engine.

This document replaces/retires: PSI 8.8L LPG Engine Service Manual

SYMPTOM

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s): N/A

DTC/Light	Description
N/A	N/A

Customer Observations or Concerns:

N/A

SPECIAL TOOL / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Torque Wrench	N/A	Locally	

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SERVICE PARTS INFORMATION

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Kit Description	Part Number	Notes

		Quantity Required	
Oil Pan Gasket	PSI80000032	1	
Blue Loctite®	1884940C1	1	
Permatex Grey RTV (Or Equivalent)	446839C1	1	
Oil Filter	PSI30100345	1	
Dexos1™ 5W30 Engine Oil	Local	7.5 qts	See Service Manual for Procedure and Quantity

DIAGNOSTIC STEPS

None

REPAIR STEPS

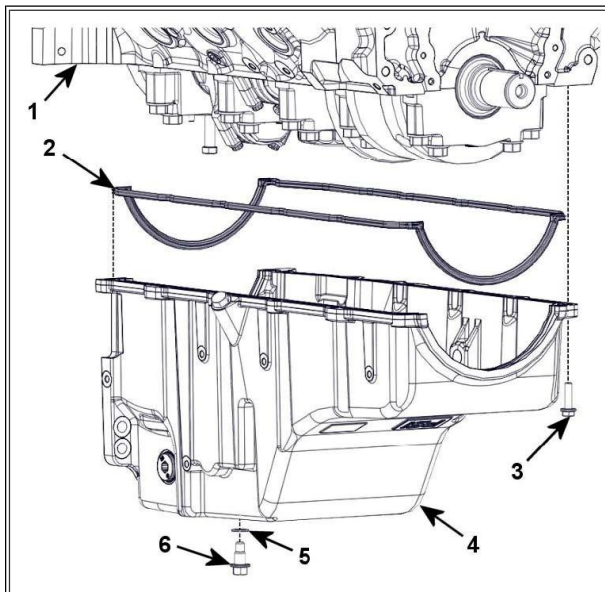


Figure 1: Oil Pan and Gasket Assembly

Item 1: Engine Block
 Item 2: Oil Pan Gasket
 Item 3: Bolt, M8 - 1.25 X 25
 Item 4: Oil Pan
 Item 5: Drain Plug Washer
 Item 6: Drain Plug

REMOVAL PROCEDURE:

1. Remove drain plug (Figure 1, Item 6) and washer (Figure 1, Item 5) from the oil pan (Figure 1, Item 4). Drain the engine oil and discard. (See **Engine Oil Filter and Oil Replacement Procedure** in the **Engine Service Manual**)
2. Remove the oil filter from the engine and discard. (See **Engine Oil Filter and Oil Replacement Procedure** in the **Engine Service Manual**)
3. Remove the dipstick tube assembly from the oil pan and engine. (See **Engine Oil Dipstick Tube Removal Procedure** in the **Engine Service Manual**)

4. Disconnect the air compressor drain hose from the oil pan adaptor.
5. Remove the engine starter assembly. (See **Starter Motor Service Procedure** in the **Engine Service Manual**)
6. Remove the two dust shields attached to the flywheel housing on each side of the engine (two bolts each).
7. Remove the two M12 oil pan to flywheel housing bolts.
8. Remove the eight M8 bolts (Figure 1, Item 3) and four M8 nuts securing the oil pan (Figure 1, Item 4) and remove the oil pan (Figure 1, Item 4) from the engine block (Figure 1, Item 1).
9. Remove the oil pan gasket (Figure 1, Item 2) from the oil pan (Figure 1, Item 4) and discard.
10. Remove residual Blue Loctite© from M8 bolts (Figure 1, Item 3), M8 studs, and M12 bolts.
11. Remove residual RTV from the oil pan (Figure 1, Item 4), engine block (Figure 1, Item 1), and front cover.

INSTALLATION PROCEDURE:

1. Install the new oil pan gasket (Figure 1, Item 2) onto the oil pan (Figure 1, Item 4).
2. Apply Permatex Grey RTV on the four inner corners (Figure 2, Item 1) near the semi-circular sealing surface on the engine block and front cover.
3. Apply Blue Loctite© onto the threads of the eight M8 bolts (Figure 2, Item 2), four M8 studs, and two M12 bolts.

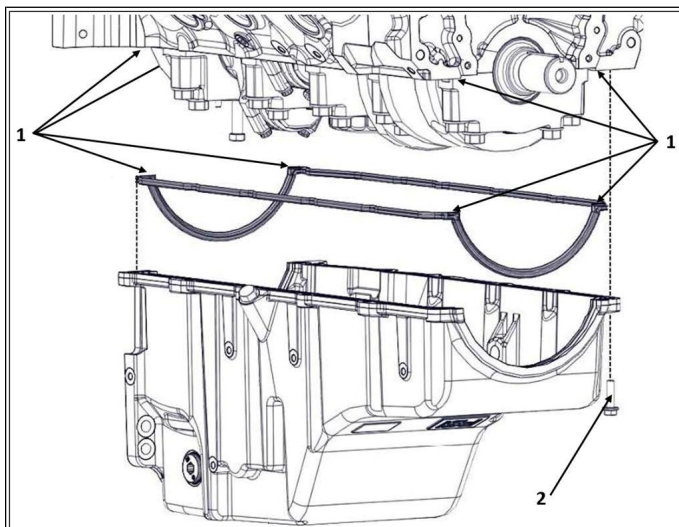


Figure 2: Oil Pan and Gasket Assembly

Item 1: Permatex Grey RTV Location (Or Equivalent)
 Item 2: Blue Loctite© Location (One bolt shown)

4. Install the oil pan onto the engine and install the eight M8 bolts and four M8 nuts holding it in place but leaving the oil pan adjustable.
5. Install the two M12 oil pan to flywheel housing bolts and torque to 70 ft-lbs (95 Nm).
6. Torque the eight M8 bolts and four M8 nuts in the sequence shown in Figure 3 below to 22 ft-lbs (30 Nm).

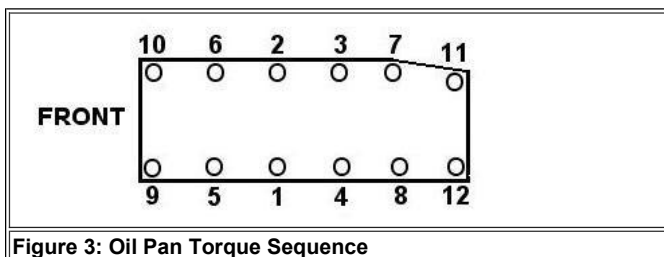


Figure 3: Oil Pan Torque Sequence

7. Install the two dust shields on both sides of the oil pan to the flywheel housing torque the four bolts to 90 in-lbs (10 Nm).
8. Install the engine starter assembly. (See **Starter Motor Service Procedure** in the **Engine Service Manual**)
9. Install the air compressor drain hose onto the oil pan adaptor and torque to 40 ft-lbs (54 Nm).
10. Install the dipstick tube onto the oil pan and engine. (See **Engine Oil Dipstick Tube Installation Procedure** in the **Engine Service Manual**)
11. Install a new oil filter onto the engine. (See **Engine Oil Filter and Oil Replacement Procedure** in the **Engine Service Manual**)
12. Install the drain plug (Figure 1, Item 6) and washer (Figure 1, Item 5) into the oil pan (Figure 1, Item 4). (See **Engine Oil Filter and Oil Replacement Procedure** in the **Engine Service Manual**)
13. Fill the engine with approved oil (See **Engine Oil Filter and Oil Replacement Procedure** in the **Engine Service Manual**)

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 - Engines
Noun:	247 - Gasket, Oil Pan

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Standard Repair Time(s):

Step	Repair	Model	Engine	SRT	Hours
IK1201335	Oil Pan And/Or Gasket, Replace	CE / BE	PSI 8.8L LPG	GY12-4591LP	2.2

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