

1 7 11-15



Service Information Bulletin

SUBJECT	DATE
High Pressure Fuel Pump Camshaft Oil Seal - Three-Filter System	July 2015

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0082 DDC-SVC-MAN-0182	DD Platform EuroIV DD Platform	Removal of the High Pressure Fuel Pump Camshaft Oil Seal - Three-Filter System	These are new sections.
		Installation of the High Pressure Fuel Pump Camshaft Oil Seal - Three-Filter System	



13400 Outer Drive, West, Detroit, Michigan 48239-4001
 Telephone: 313-592-5000
www.demanddetroit.com

2 Removal of the High Pressure Fuel Pump Camshaft Oil Seal - Three-Filter System

Remove as follows:

1. Remove the high pressure fuel pump from the engine. Refer to section "Removal of the High Pressure Fuel Pump - Three-Filter System".



WARNING: PERSONAL INJURY

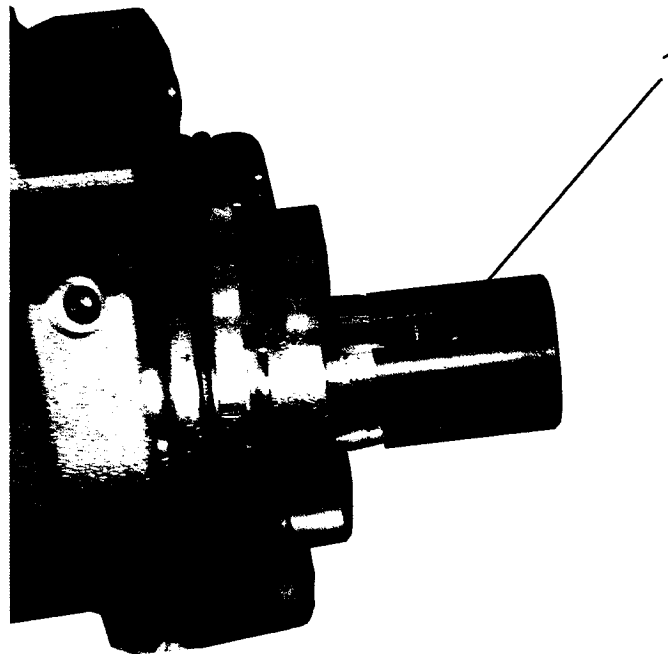
To avoid injury, never remove any engine component while the engine is running.



WARNING: PERSONAL INJURY

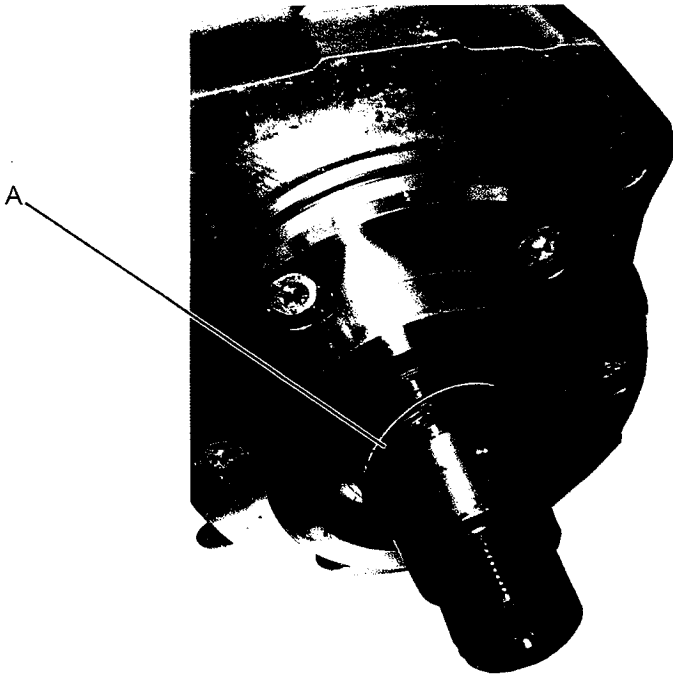
To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

2. Remove the high pressure fuel pump drive gear from the high pressure fuel pump. Refer to section "Removal of the High Pressure Fuel Pump Drive Gear – Three-Filter System".
3. If equipped with a key, remove the high pressure fuel pump key from the high pressure fuel pump camshaft. If equipped with a pin, Refer to section "Removal of the High Pressure Fuel Pump Locating Pin - Three-Filter System".
4. Install the high pressure fuel pump camshaft oil seal protector tool (1) on to the high pressure fuel pump.



d070104

Table 1.

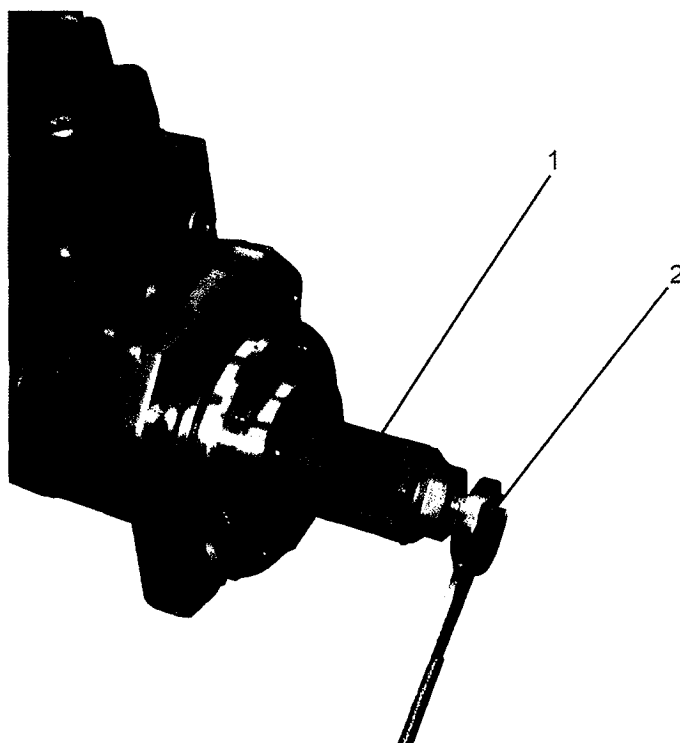
Camshaft Oil Seal Removal
NOTE: While installing the camshaft oil seal removal tool to the camshaft oil seal, the oil seal lip (A) may rip. If the oil seal lip (A) rips, remove and discard the oil seal lip, then reinstall the camshaft oil seal removal tool.
 d070108

5. Position the camshaft oil seal removal tool (W470589055903) over the high pressure fuel pump camshaft until it has made contact with the camshaft oil seal. Once the camshaft oil seal removal tool (W470589055903) has made contact with the oil seal, press the removal tool firmly against the camshaft oil seal and rotate the tool clockwise by hand until the removal tool has completely screwed into the camshaft oil seal.



d070105

6. Remove the camshaft oil seal by holding the camshaft oil seal removal tool (1) and turning the camshaft oil seal removal tool bolt (2).



d070106

7. Remove the camshaft oil seal from the camshaft oil seal removal tool (W470589055903).

3 Installation of the High Pressure Fuel Pump Camshaft Oil Seal - Three-Filter System

Install as follows:

NOTICE: Damage will occur if the inside of the new service camshaft oil seal is touched or handled. If the inside of the new service camshaft oil seal has been touched or handled, discard the seal and install a new seal.

1. Clean the face of the camshaft fuel seal, camshaft and the outside sealing area of the camshaft oil seal inside the high pressure pump.



d470285

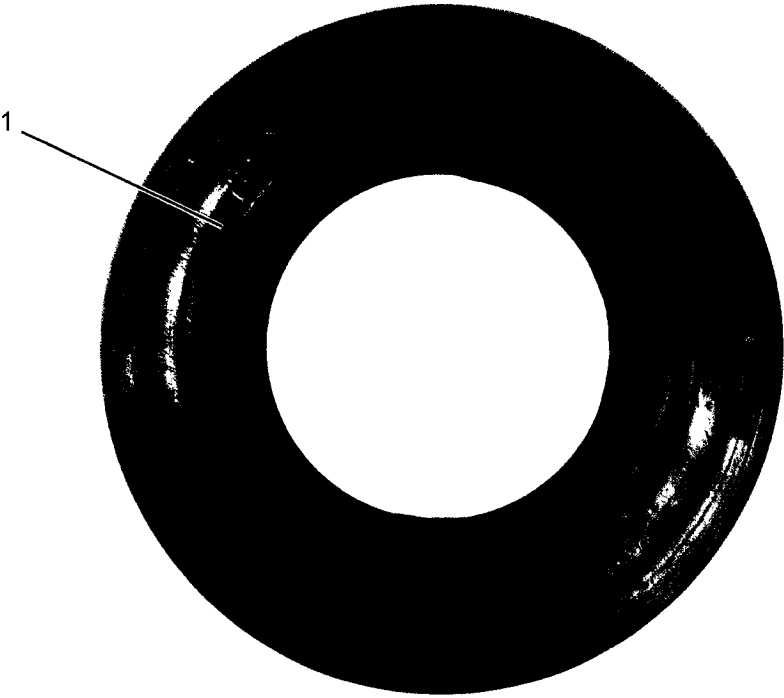
2. Install the camshaft sleeve tool (W470589055902) on to the camshaft.



d470286

3. Lightly coat the camshaft sleeve tool (W470589055902) with clean diesel fuel.
4. Place the new service camshaft oil seal onto the camshaft sleeve tool (W470589055902) with the FLAT side of the seal facing outwards.

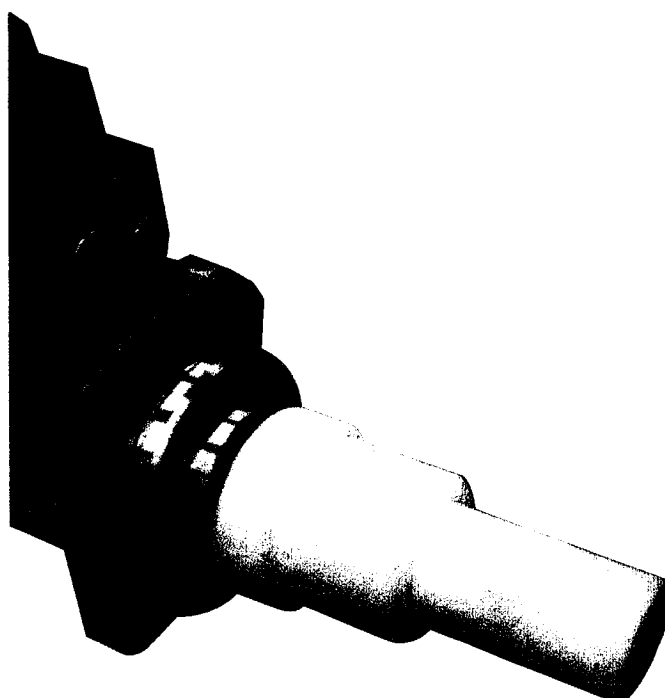
Table 2.

Oil Seal Installation
NOTE: The illustration below shows the FLAT side (1) of the service camshaft oil seal.
 The illustration shows a black, toroidal (donut-shaped) oil seal. A white callout line with the number '1' points to a specific area on the outer edge of the seal, which is identified as the 'FLAT side' in the accompanying note. The seal has a central circular hole and a slightly raised outer rim. d470306



d470283

5. Using the camshaft oil seal installer tool (W470589055901), by hand, slide the camshaft oil seal inwards until the camshaft oil seal presses against the high pressure fuel pump.



d470287

6. Remove the camshaft sleeve tool (W470589055902) from the camshaft.

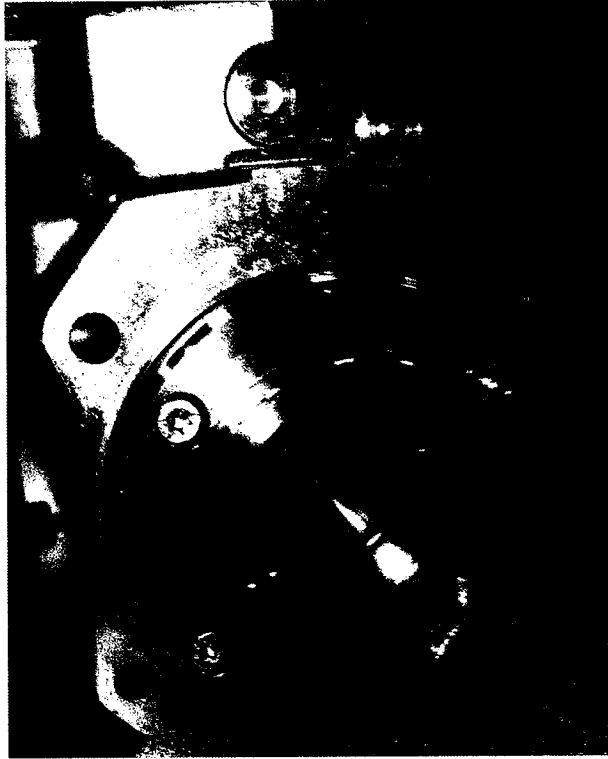
NOTE: When installing the camshaft seal onto the high pressure fuel pump, the camshaft oil seal installer tool **MUST** make contact with the high pressure fuel pump to seat the camshaft oil seal properly.

7. Using a dead blow hammer, lightly tap the camshaft seal installer tool (W470589055901) until the tool makes contact with the high pressure fuel pump.



d470288

8. Inspect the camshaft oil seal, camshaft and high pressure fuel pump for damage.



d470284

NOTE: Setting the locating pin depth is critical; follow the pin installation instructions closely.

9. If equipped with the key, install the high pressure fuel pump key onto the camshaft. If equipped with a pin, Refer to section "Installation of the High Pressure Fuel Pump Locating Pin - Three-Filter System".
10. Install the high pressure fuel pump drive gear from the high pressure fuel pump. Refer to section "Installation of the High Pressure Fuel Pump Drive Gear – Three-Filter System".
11. Install the high pressure fuel pump onto the engine. Refer to section "Installation of the High Pressure Fuel Pump - Three-Filter System".