

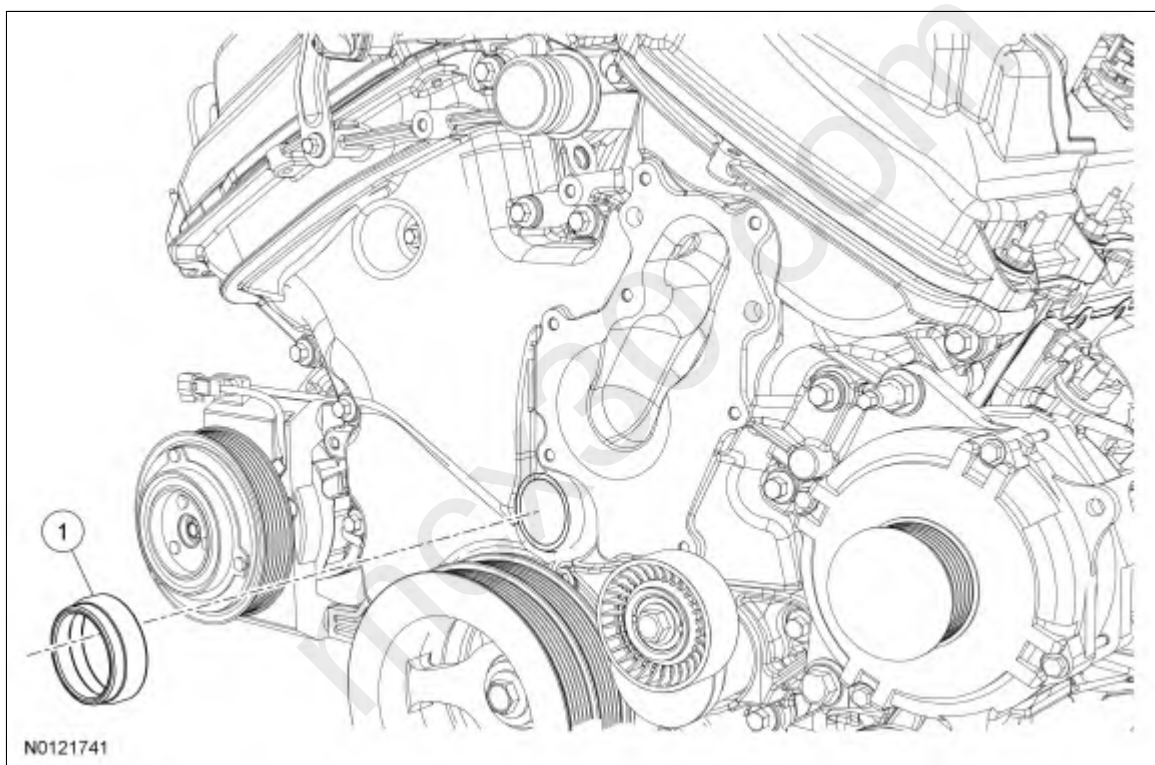
SECTION 303-01A: Engine — 3.5L GTDI
IN-VEHICLE REPAIR

2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

Front Cover Radial Seal

Special Tool(s)

 ST3232-A	Remover/Installer, Water Tube Seal 303-1528
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Item	Part Number	Description
1	6020	Front cover radial seal

Removal

NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces that enters the oil passages, coolant passages or the oil pan, may cause engine failure.

1. Remove the accessory drive and A/C compressor belt. For additional information, refer to [Section 303-05](#).
2. Remove the coolant pump. For additional information, refer to [Section 303-03](#).

3. Using the Water Tube Seal Remover, remove the front cover radial seal.
 - Reset the Water Tube Seal Remover center bolt to its retracted position.
 - Screw the Water Tube Seal Remover onto the front cover radial seal until it bottoms out.
 - Using a brass hammer, give the Water Tube Seal Remover a slight tap inward to break front cover radial seal loose.
 - Turn the Water Tube Seal Remover center bolt clockwise and remove the front cover radial seal.



4. Clean the engine front cover radial seal area.

Installation

1. Using the Water Tube Seal Installer, install the front cover radial seal.
 - Position the front cover radial seal on the Water Tube Seal Installer.
 - Position the Water Tube Seal Installer into the engine front cover.
 - Using a brass hammer, tap the Water Tube Seal Installer until the front cover radial seal bottoms out.



2. Inspect the front cover radial seal for proper installation or damage.
3. Install the coolant pump. For additional information, refer to [Section 303-03](#).
4. Install the accessory drive and A/C compressor belt. For additional information, refer to [Section 303-05](#).

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