

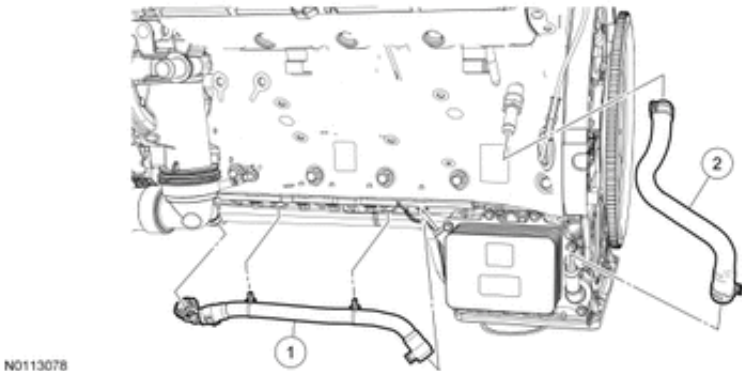
Listen

Oil Cooler

SECTION 303-01C: Engine — 6.7L Diesel	2013 F-250, 350, 450, 550 Super Duty Workshop Manual
IN-VEHICLE REPAIR	Procedure revision date: 07/23/2013

OIL COOLER

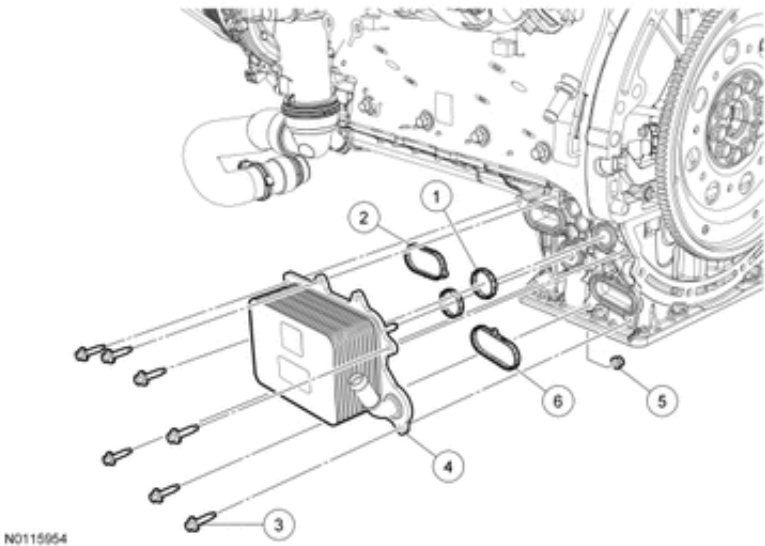
Oil Cooler **Hoses**



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Item	Part Number	Description
1	6B850	Oil cooler outlet hose
2	6B851	Oil cooler inlet hose

Oil Cooler **Assembly**



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Item	Part Number	Description
1	6L621	Oil cooler gasket (2 required)
2	6L621	Oil cooler gasket
3	W503276	Oil cooler bolt (7 required)
4	6A642	Oil cooler assembly
5	W520102	Oil cooler nut (early build only)
6	6L621	Oil cooler gasket

## Removal

1. Drain the engine cooling system. For additional information, refer to [Engine Cooling — Diesel Engine](#).
2. Remove the oil cooler inlet hose.
3. Disconnect the oil cooler outlet hose at the lower radiator hose outlet. Disconnect the coolant hose retainers from the upper oil pan.
4. **NOTICE: In the event of catastrophic engine failure, always install a new oil cooler assembly. Foreign material cannot be removed from the oil cooler and engine damage may occur.**

**NOTE:** On late build vehicles, the internal nut is no longer on the oil cooler and the lower oil pan does not have to be removed.

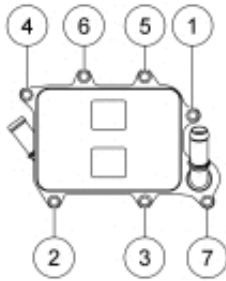
Remove the 7 bolts for the oil cooler assembly.

- For late build vehicles, remove the oil cooler.
  - Remove and discard the gaskets.
  - Clean and inspect the sealing surfaces.
5. If necessary, remove the lower oil pan. For additional information, refer to [Oil Pan — Lower](#) in this section.
  6. **NOTICE: Failure to remove the nut from the oil cooler may result in damage to the oil cooler.**  
**NOTE:** The nut is located inside the upper oil pan.  
If equipped, remove the oil cooler nut and oil cooler.
    - Remove and discard the gaskets.
    - Clean and inspect the sealing surfaces.
  7. If necessary, remove the oil cooler outlet hose from the oil cooler.

## Installation

1. If necessary, install the oil cooler outlet hose onto the oil cooler.
2. **NOTICE: In the event of catastrophic engine failure, always install a new oil cooler assembly. Foreign material cannot be removed from the oil cooler and engine damage may occur.**  
Using new gaskets, install the oil cooler assembly and 7 bolts.
  - Tighten finger-tight.
3. **NOTICE: Failure to tighten the oil cooler nut first may result in oil cooler damage or leaks.**  
If equipped, install the oil cooler nut.
  - Tighten to 24 Nm (18 lb-ft).
4. Tighten the 7 oil cooler bolts. Tighten in the sequence shown.

- Tighten to 10 Nm (89 lb-in).



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5. If necessary, install the lower oil pan. For additional information, refer to [Oil Pan — Lower](#) in this section.
6. **NOTE:** Remove the plugs or caps from the openings.  
Connect the oil cooler outlet hose at the lower radiator hose outlet.  
Connect the coolant hose retainers to the upper oil pan.
7. **NOTE:** Remove the plugs or caps from the openings.  
Install the oil cooler inlet hose.
8. **NOTICE:** Evaluate the cooling system condition before filling the engine cooling system. Failure to follow these instructions can result in damage to the engine.  
Evaluate the cooling system condition. For additional information, refer to Cooling System Condition Evaluation in [Engine Cooling — Diesel Engine](#).