

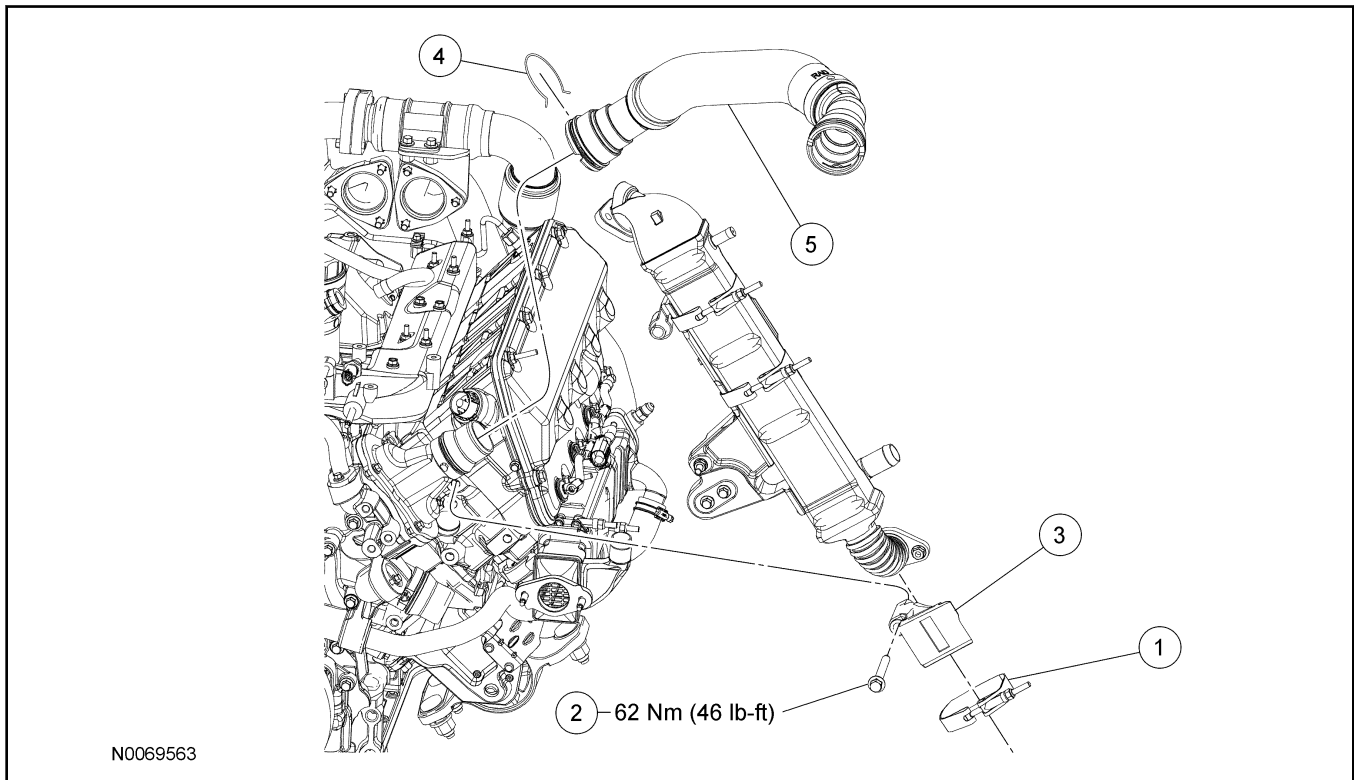
## SECTION 303-03 Engine Cooling

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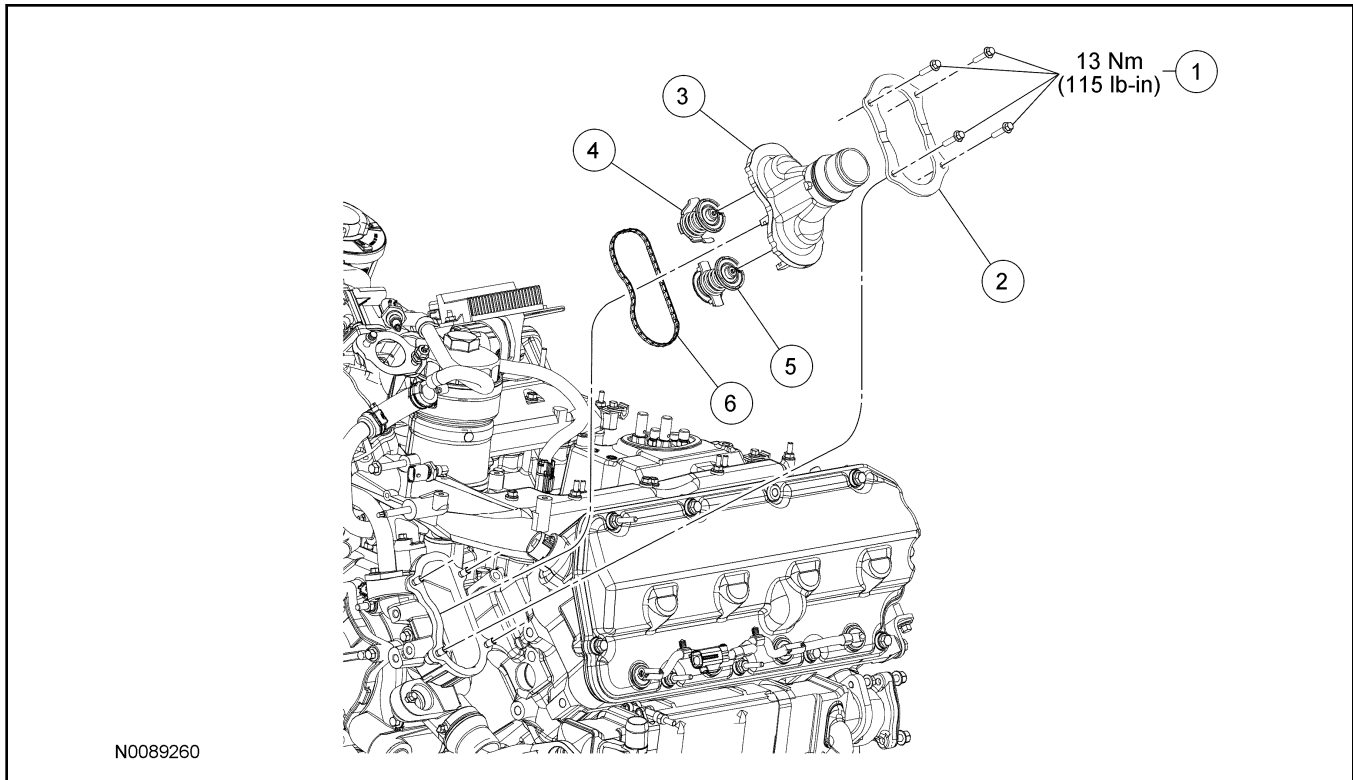
Thermostat — 6.4L Diesel .....	303-03-2
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## Thermostat — 6.4L Diesel



Item	Part Number	Description
1	8287	Vertical EGR cooler clamp
2	W302547	Vertical EGR cooler bracket bolt
3	9F465	Vertical EGR cooler bracket
4	—	Upper radiator hose spring clip
5	8B274	Upper radiator hose

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Item	Part Number	Description
1	W300014	Thermostat housing bolts (4 required)
2	8575	Thermostat housing collar
3	8575	Thermostat housing
4	8575	Thermostat without bypass
5	8575	Thermostat with bypass
6	8255	Thermostat housing gasket

## Removal

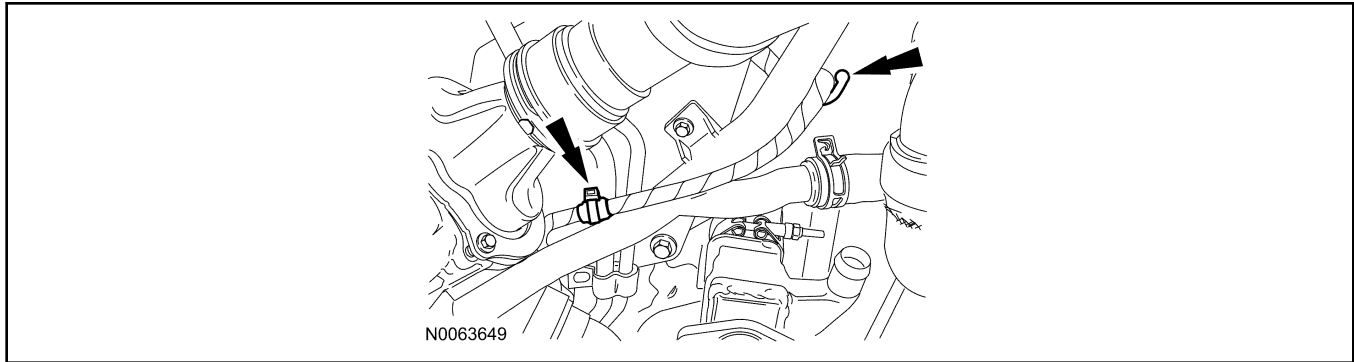
### NOTE:

Removal of the vertical EGR cooler is not required to service the thermostats.

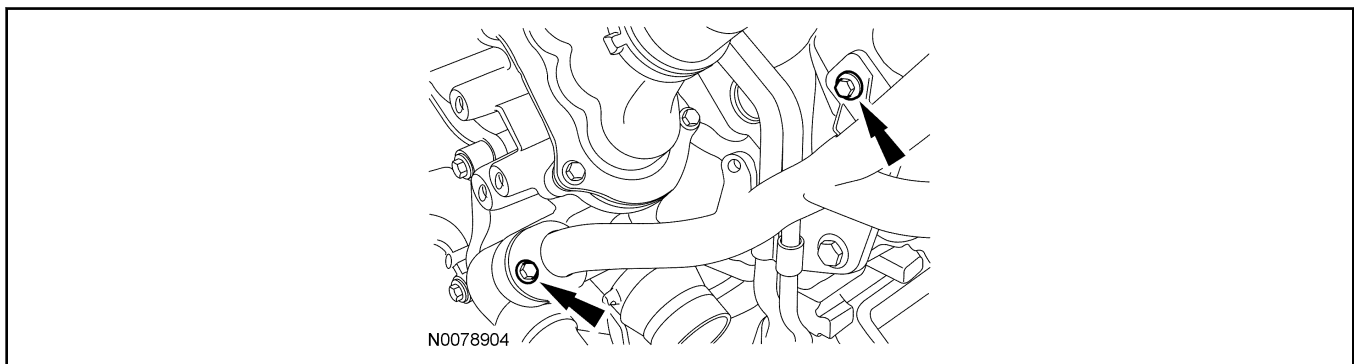
1. Remove the upper cooling fan shroud. For additional information, refer to Cooling Fan Shroud — 6.4L Diesel, Upper in this section.
2. Remove the degas bottle. For additional information, refer to Degas Bottle — 6.4L Diesel in this section.
3. Using a mirror, find the end of the upper radiator hose spring clip. Remove the spring clip, disconnect the upper radiator hose from the thermostat housing and position the upper radiator hose aside.
4. Remove and discard the nut and the vertical EGR cooler lower clamp.
5. Remove the bolt and the vertical EGR cooler lower bracket.
6. **NOTE:**  
Vertical EGR cooler removed from art for clarity.

Disconnect the wiring from the heater return tube.

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7. Remove the 2 bolts and position out the LH heater return tube.
  - Remove and discard the O-ring seal.

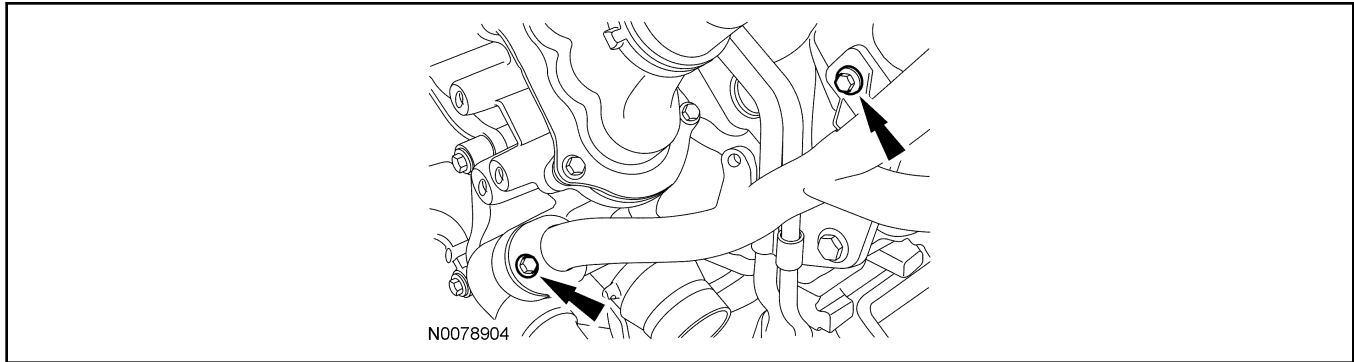


8. **NOTE:**  
The 6.4L diesel engine uses 2 thermostats.  
  
Remove the 4 bolts, the collar and the thermostat housing.
  - Lift the bottom of the collar up and rotate toward the engine to remove.
9. **NOTICE:**  
**If the thermostats are contaminated with engine oil, new thermostats must be installed. Reusing a thermostat that has been exposed to engine oil may result in engine overheating.**  
  
Remove the thermostats and the gasket from the thermostat housing.
  - Discard the gasket.

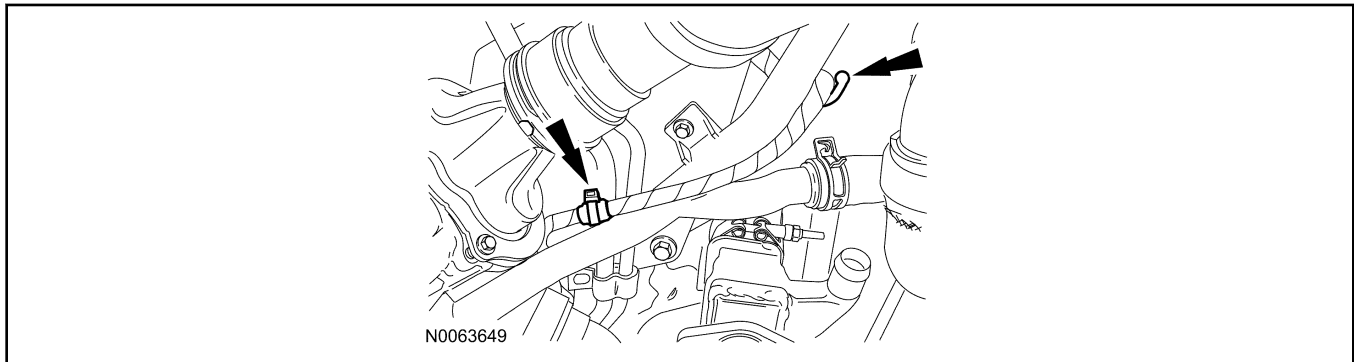
### Installation

1. Install a new gasket and the thermostats into the thermostat housing.
2. Install the thermostat housing, the collar and the 4 bolts.
  - Tighten to 13 Nm (115 lb-in).
3. **NOTE:**  
Vertical EGR cooler removed from art for clarity.  
  
**NOTE:**  
Install a new O-ring seal.  
  
Install the LH heater return tube and the 2 bolts.
  - Tighten to 13 Nm (115 lb-in).

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4. Connect the wiring to the heater return tube.



5. Position the lower vertical EGR cooler bracket and loosely install the bolt.
6. Install a new vertical EGR cooler lower clamp. Tighten the clamp nut in 3 stages.
- Stage 1: Tighten the nut to 10 Nm (89 lb-in).
  - Stage 2: Loosen the nut 720 degrees (2 complete turns).
  - Stage 3: Tighten the nut to 8 Nm (71 lb-in).
7. Tighten the lower EGR cooler bracket bolt.
- Tighten to 62 Nm (46 lb-ft).
8. Connect the upper radiator hose to the thermostat housing. Install the spring clip.
- Verify the spring clip is correctly seated.
9. Install the degas bottle. For additional information, refer to Degas Bottle — 6.4L Diesel in this section.
10. Install the upper cooling fan shroud. For additional information, refer to Cooling Fan Shroud — 6.4L Diesel, Upper in this section.