

Thermostat — 4.6L (3V)

Material

Item	Specification
Motorcraft® Premium Gold Engine Coolant with Bittering Agent (bittered in US only) VC-7-B (US); CVC-7-A (Canada); or equivalent (yellow color)	WSS-M97B51-A1

Removal

1. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#).
2. Drain the engine cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding](#) in this section.
3. Remove the Air Cleaner (ACL) outlet pipe. For additional information, refer to [Section 303-12](#).
4. Remove the accessory drive belt. For additional information, refer to [Section 303-05](#).
5. Disconnect the crankcase vent tube from the intake manifold and position it aside.
6. Remove the 2 generator support bracket outer bolts.
7. Remove the 2 lower generator nuts and position the generator and wiring harness forward.
8. Loosen the 2 generator support bracket inner bolts and position aside the generator and wiring harness.
9. **NOTE:** The thermostat cover has a slotted flange for the RH bolt.

Remove the LH thermostat cover bolt and loosen the RH bolt.
 - Position aside the thermostat cover and hose assembly.
10. Remove the thermostat O-ring seal and the thermostat.
 - Discard the thermostat O-ring seal.

Installation

1. **NOTE:** Lubricate the O-ring seal with clean engine coolant.

Install the thermostat and a new O-ring seal.
2. Position the thermostat cover slotted flange under the RH bolt and install the LH bolt.
 - Tighten to 10 Nm (89 lb-in).
3. Position the generator and wiring harness.
4. Tighten the 2 generator support bracket inner bolts.
 - Tighten to 10 Nm (89 lb-in).
5. Install the 2 lower generator nuts.
 - Tighten to 25 Nm (18 lb-ft).

6. Install the 2 outer generator support bracket bolts.
 - Tighten to 10 Nm (89 lb-in).
 7. Connect the crankcase vent tube to the intake manifold.
 8. Install the accessory drive belt. For additional information, refer to [Section 303-05](#).
 9. Install the [ACL](#) outlet pipe. For additional information, refer to [Section 303-12](#).
 10. Connect the battery ground cable. For additional information, refer to [Section 414-01](#).
 11. Fill and bleed the cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding](#) in this section.
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