

COOLANT PUMP - 4.6L, 5.4L AND 6.8L**Material****MATERIAL SPECIFICATIONS**

Item	Specification
Motorcraft® Metal Surface Prep ZC-31-A	-
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

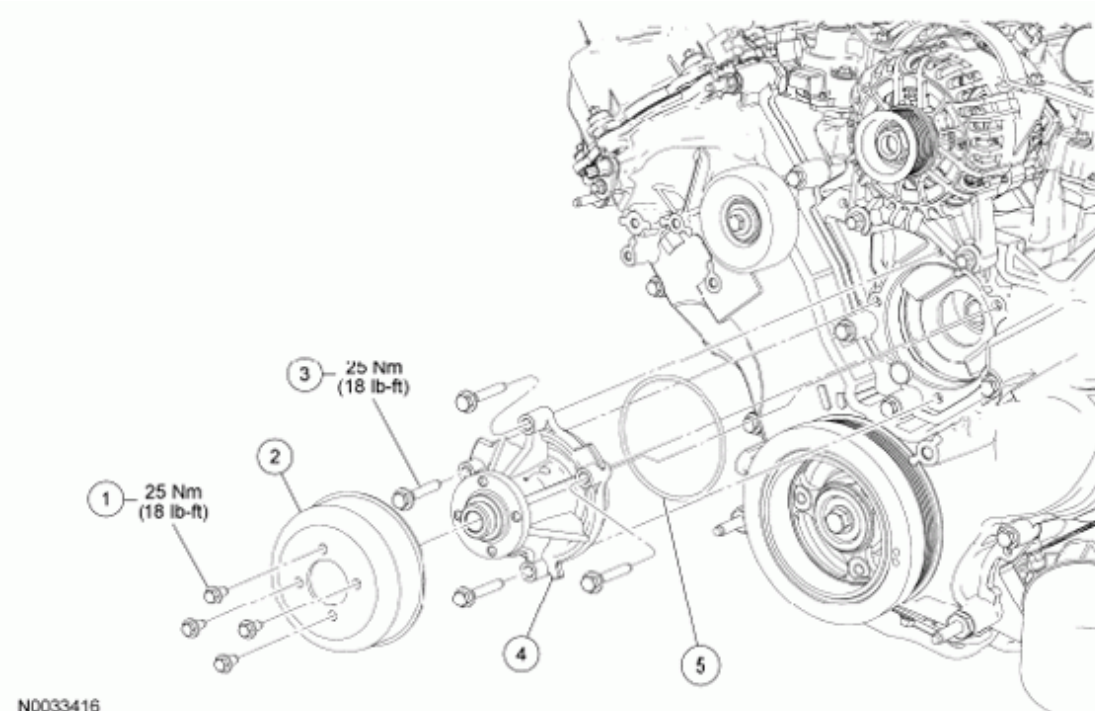


Fig. 29: Exploded View Of Coolant Pump With Torque Specifications - 4.6L, 5.4L And 6.8L
 Courtesy of FORD MOTOR CO.

PARTS DESCRIPTION CHART

Item	Part Number	Description
1	N806282	Coolant pump pulley bolt (4 required)
2	8A528	Coolant pump pulley
3	N806177	Coolant pump bolt (4 required) - 4.6L (2V)
3	N808794	Coolant pump bolt (4 required) - 5.4L (2V), 6.8L (2V)
4	8501	Coolant pump
5	391108	Coolant pump O-ring seal

Removal

1. Remove the fan and fan clutch. For additional information, refer to **COOLING FAN - 4.6L, 5.4L AND 6.8L**.
2. Loosen the 4 coolant pump pulley bolts.
3. Rotate the tensioner clockwise and remove the accessory drive belt from the coolant pulley.

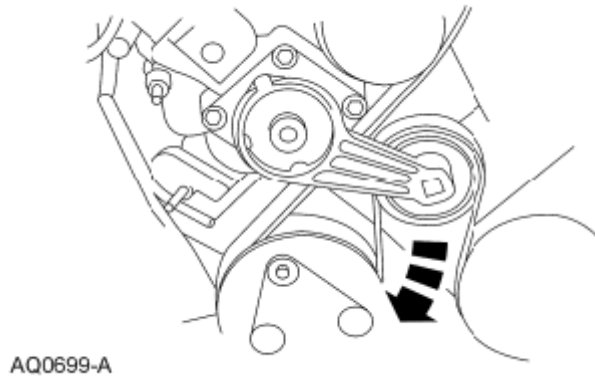


Fig. 30: Rotating Tensioner Clockwise
Courtesy of FORD MOTOR CO.

4. Remove the 4 bolts and the coolant pump pulley.
5. Remove the 4 coolant pump bolts and the coolant pump.
 - Discard the coolant pump O-ring seal.
 - Clean the sealing surfaces with metal surface prep. Follow the directions on the packaging.

Installation

NOTE: Lubricate the new O-ring seal with clean engine coolant prior to installation into the cylinder block.

1. Install a new O-ring on the coolant pump.

NOTE: Do not rotate the coolant pump housing once the coolant pump has been positioned in the cylinder block. Damage to the O-ring seal will occur.

2. Position the coolant pump and install the 4 bolts.
 - Tighten to 25 Nm (18 lb-ft).
3. Position the coolant pump pulley onto the coolant pump and install the bolts finger-tight.
4. Rotate the tensioner clockwise and install the accessory drive belt onto the coolant pulley.

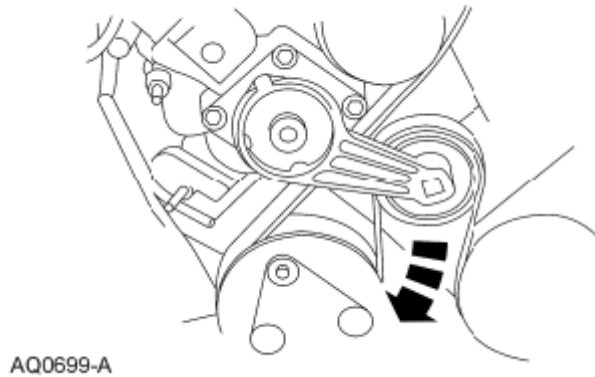


Fig. 31: Rotating Tensioner Clockwise
Courtesy of FORD MOTOR CO.

5. Tighten the coolant pump pulley bolts.
 - Tighten to 25 Nm (18 lb-ft).
6. Install the fan and fan clutch. For additional information, refer to **COOLING FAN - 4.6L, 5.4L AND 6.8L**.