

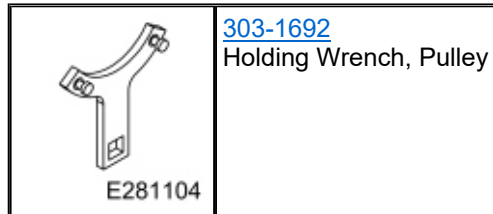
303-03 Engine Cooling - 2.3L EcoBoost (201kW/273PS)
Removal and Installation

2019 Ranger
Procedure revision date: 01/7/2019

Cooling Fan

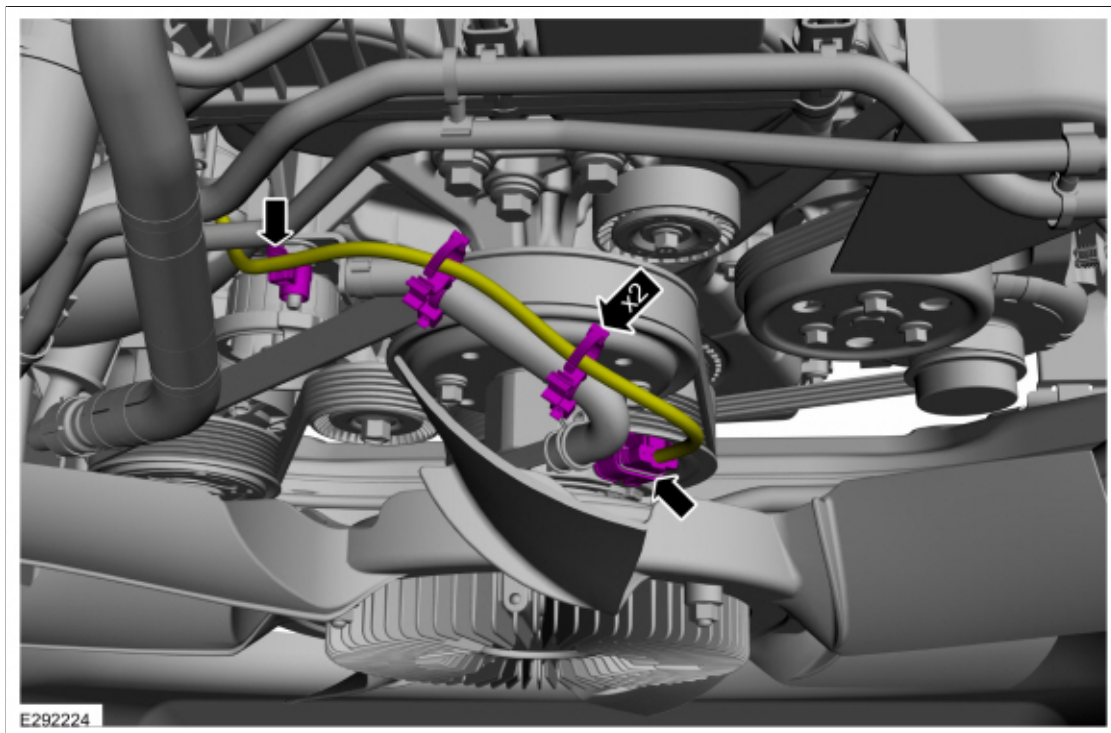
Base Part Number: 8600

Special Tool(s) / General Equipment



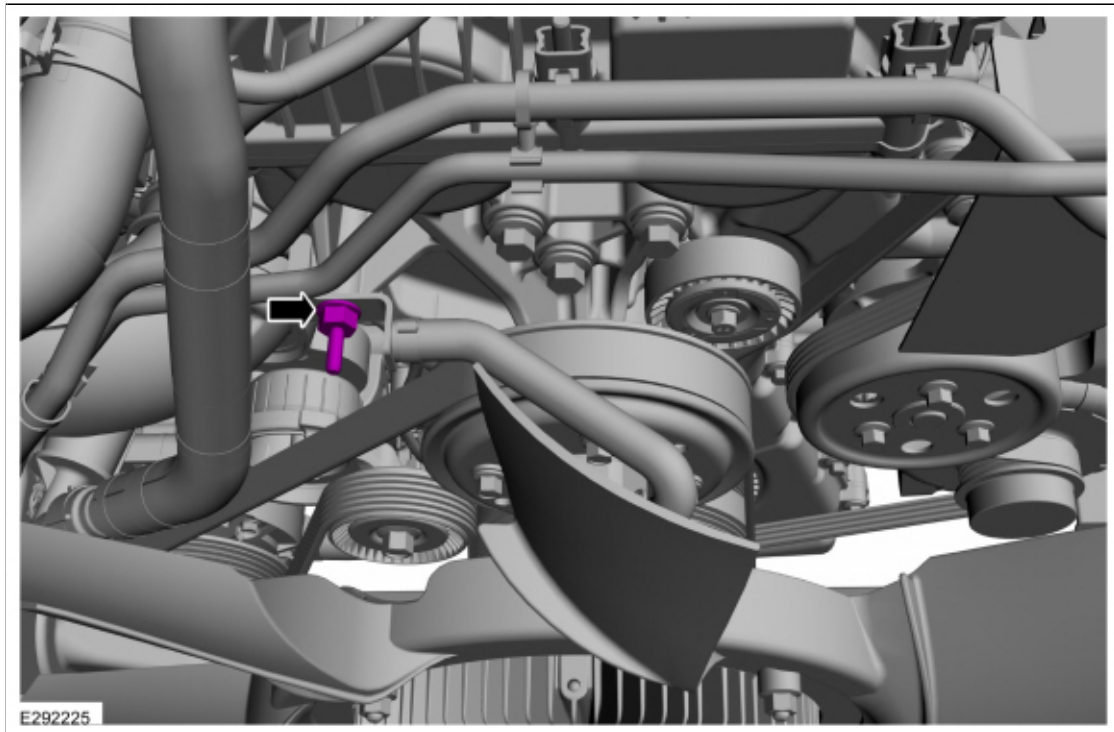
Removal

1. Remove the upper cooling fan shroud.
Refer to: [Cooling Fan Upper Shroud](#) (303-03 Engine Cooling - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
2.
 - Detach the wiring harness retainers.
 - Disconnect the electrical connector.



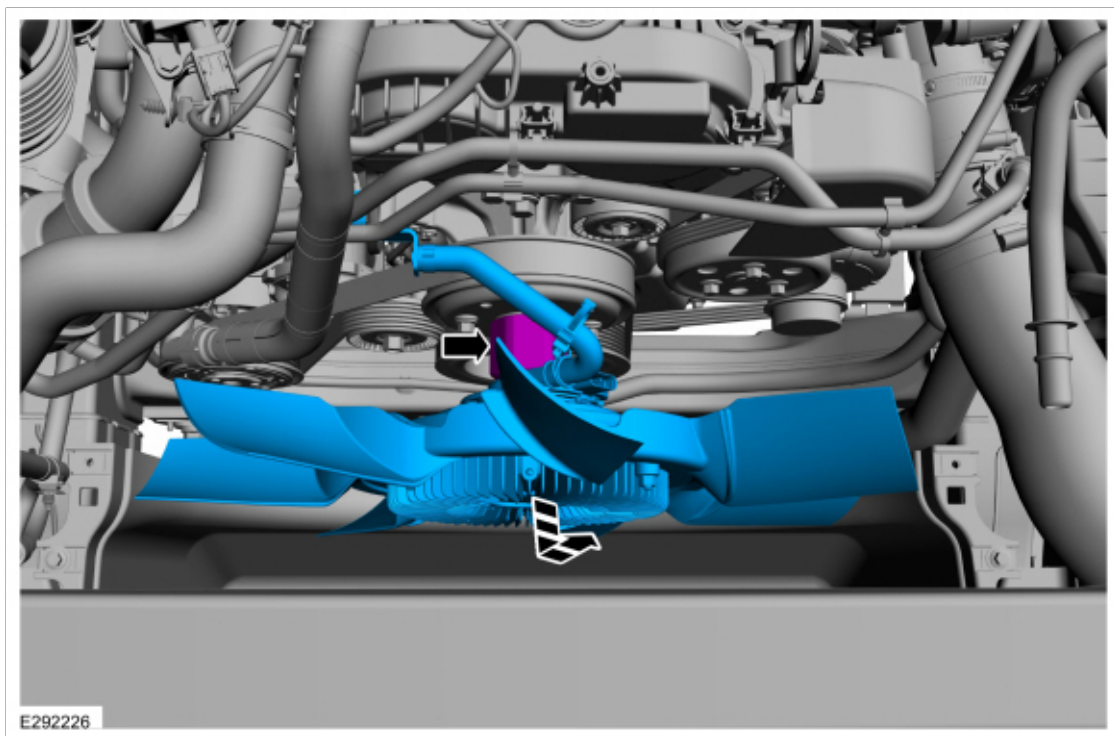
3. Remove the studbolt.
Torque: 18 lb.ft (25 Nm)





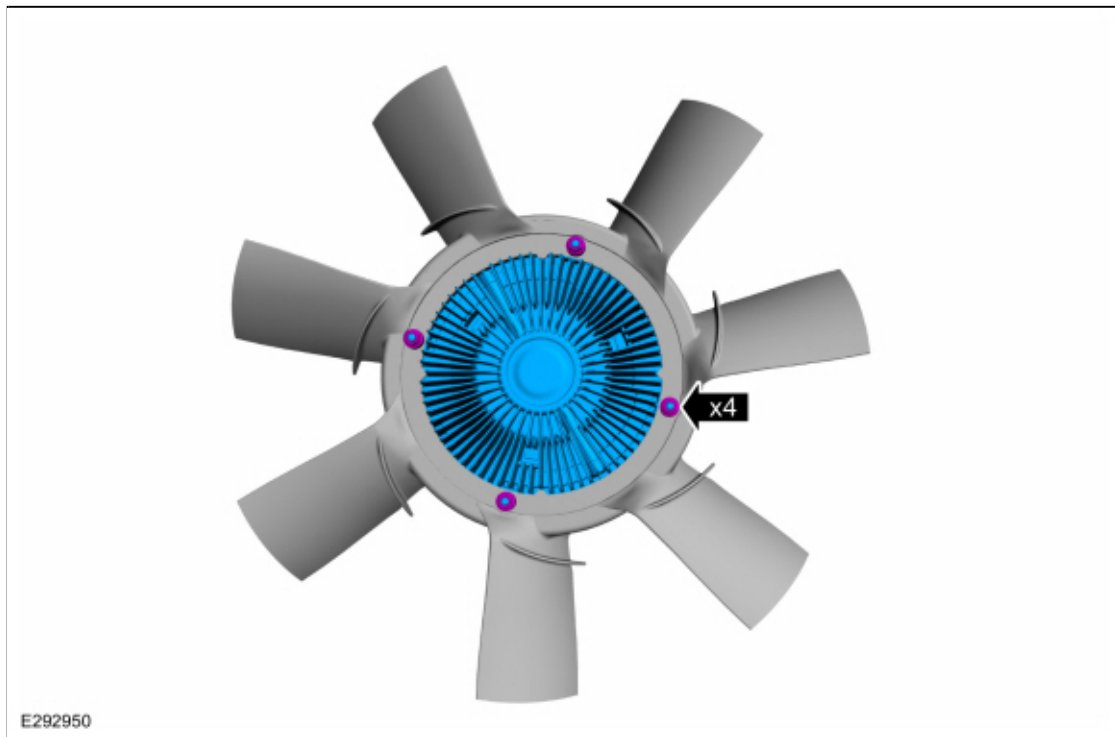
4. **NOTE:** Take extra care not to damage the electrical connector.

Using the special tools, remove the cooling fan and clutch.
 Use Special Service Tool: [303-1692 Holding Wrench, Pulley](#).
 Torque: 81 lb.ft (110 Nm)



5. **NOTE:** *This step is only necessary when installing a new component.*

Remove the bolts and separate the cooling fan from the cooling fan clutch.
Torque: 93 lb.in (10.5 Nm)



Installation

1. To install, reverse the removal procedure.

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