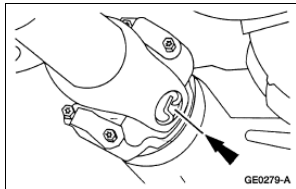
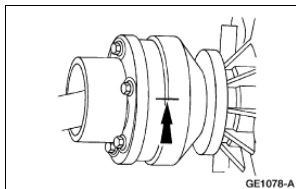


4x4 vehicles

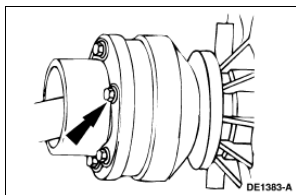
60. Index-mark the front axle pinion flange and the front driveshaft.



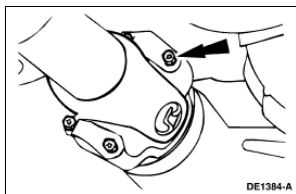
61. Index-mark the front output shaft assembly and the front driveshaft constant velocity (CV) joint.



62. Remove and discard the bolts and washers.



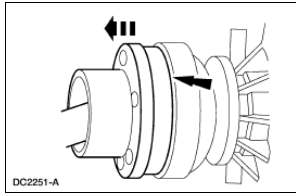
63. Remove and discard the bolts and universal joint retainers.



64. **⚠ CAUTION:** Always disconnect the front driveshaft from the transfer case first. Otherwise, the weight of the driveshaft can pinch the boot and cause the boot to tear.

⚠ CAUTION: Tape the bearing cups to the driveshaft to prevent them from falling off the spider.

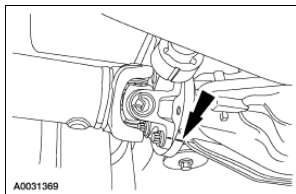
Remove the front driveshaft.



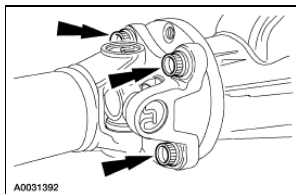
All vehicles

65. **NOTE:** The axle pinion flange is shown, the transfer case output flange, if equipped, is similar.

Mark the driveshaft flange to the rear axle pinion flange, and if equipped, the transfer case rear output flange for assembly reference.

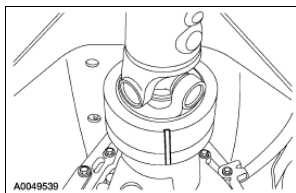


66. Remove the four rear axle flange bolts.



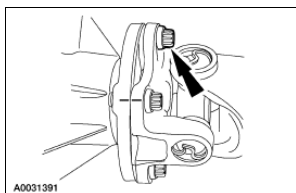
4x2 vehicles

67. Index-mark the driveshaft at the six o'clock position.



4x4 vehicles

68. Remove the four transfer case flange bolts.

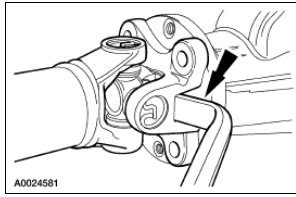


All vehicles

69. **⚠ CAUTION:** The driveshaft flange fits tightly on the rear axle pinion flange pilot. Never hammer on the driveshaft or any of its components to disconnect the driveshaft flange from the pinion flange.

NOTE: Do not rotate the driveshaft.

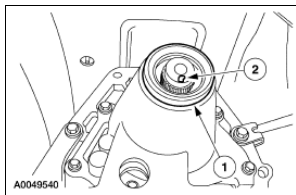
Using a suitable tool as shown, disconnect the driveshaft flange and remove the driveshaft.



4x2 vehicles

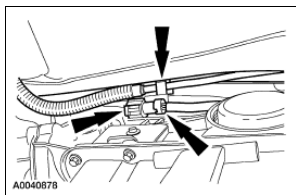
70. Index-mark the transmission output shaft at the six o'clock position.

1. Pull the seal away from the transmission output shaft.
2. Mark the output shaft at the six o'clock position.

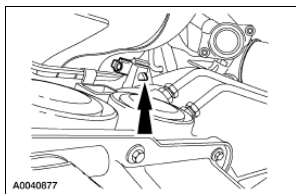


All vehicles

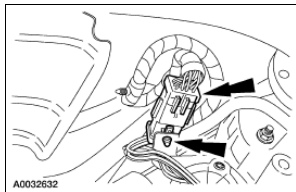
71. Disconnect the RH catalyst monitor connector and the fuel lines from the bracket.



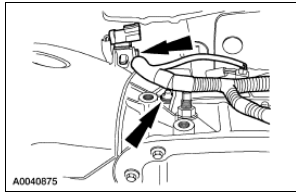
72. Disconnect the RH heated oxygen sensor electrical connector from the transmission.



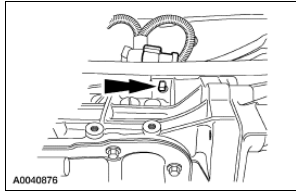
73. If equipped, disconnect the shift motor electrical connector.



74. Disconnect the LH heated oxygen sensor electrical connector retainer and the harness clip from the transmission.



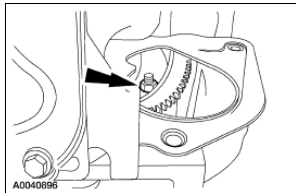
75. Disconnect the LH catalyst monitor connector from the transmission.



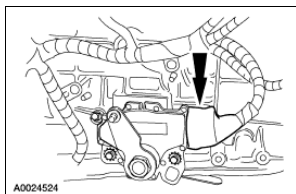
76. **NOTE:** Make an identifying mark on the nut, stud and flexplate to allow for correct installation.

Remove the four torque converter nuts.

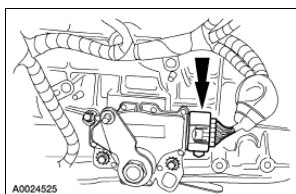
- Rotate the crankshaft to access all the nuts.



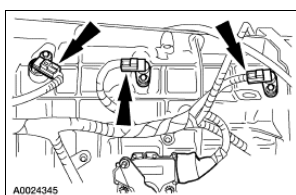
77. Move the rubber boot back to gain access to the connector.



78. Disconnect the digital transmission range sensor.

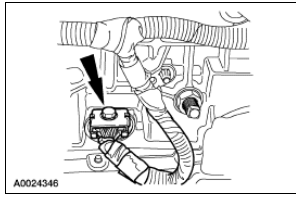


79. Disconnect the electrical connectors.

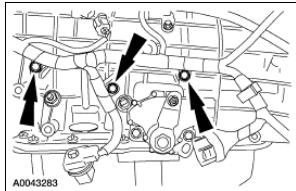


80. **NOTE:** Clean the area around the connector to prevent contamination of the solenoid body connector.

Remove the screw and disconnect the solenoid body electrical connector.

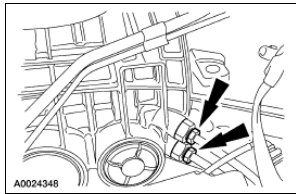


81. Disconnect the harness retainers.

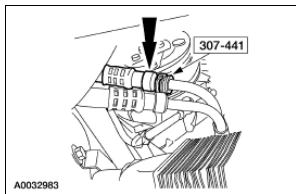


82. **⚠ CAUTION: Do not damage the cooler tubes. Hold the transmission case fitting with a wrench.**

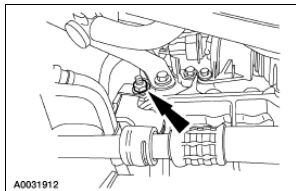
Disconnect the transmission cooler tubes.



83. Disconnect the cooler tubes and allow them to drain into a suitable container.



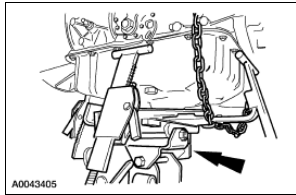
84. Remove the nut and the cooler tubes and the cooler tube bracket.



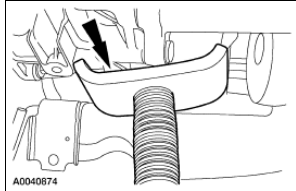
4x4 vehicles

85. **⚠ WARNING: Secure the transmission to the jack with a safety chain. Failure to follow these instructions can result in personal injury.**

Support the transmission with a transmission jack.

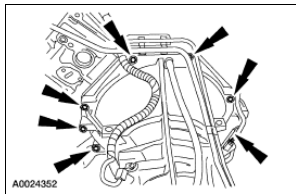


86. Remove the jack stand from the transfer case.



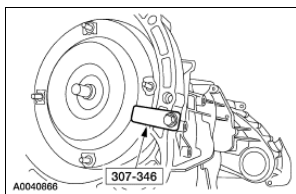
All vehicles

87. Remove the eight engine-to-transmission retaining bolts.

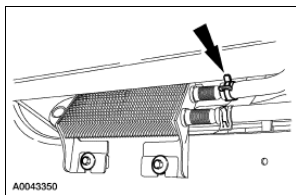


88. Remove the transmission.

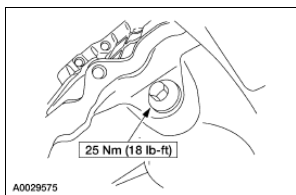
89. Install the special tool.



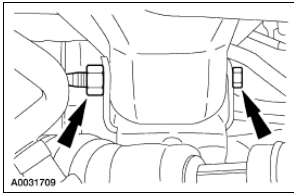
90. Disconnect the power steering return hose and allow it to drain into a suitable container.



91. Drain the engine oil.
• Install the drain plug when finished.

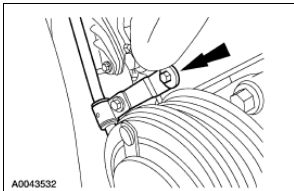


92. Remove the LH engine support insulator bolt.

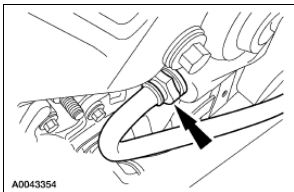


93. Lower the vehicle.

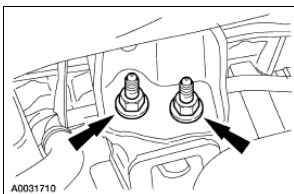
94. Remove the bolt and power steering tube support bracket.



95. Disconnect the power steering pressure tube from the power steering pump.

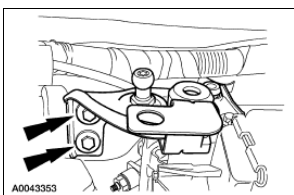


96. Remove the RH engine support insulator nuts.

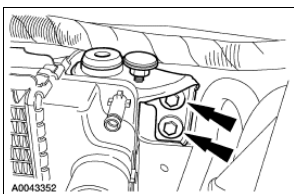


97. Remove the engine support bar.

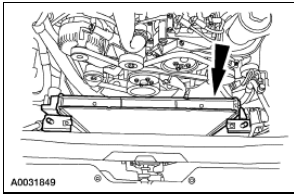
98. Remove the bolt and the LH radiator support bracket.



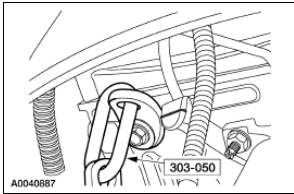
99. Remove the bolts and the RH radiator support bracket.



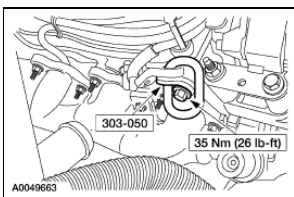
100. Remove the radiator and A/C condenser as an assembly.



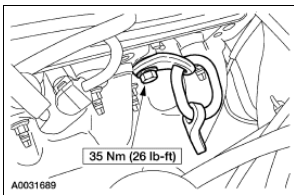
101. Remove the right side lifting bracket.



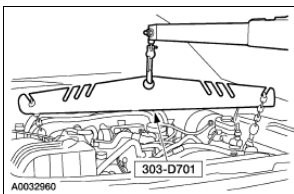
102. Reposition and install the right side lifting bracket.



103. Install the left side lifting bracket.


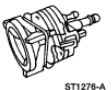



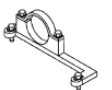






104. Attach a floor crane to the Spreader Bar and remove the engine.

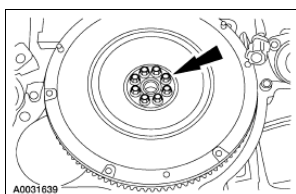


Engine

Special Tool(s)

 ST1829-A	Remover, Crankshaft Vibration Damper 303-773
 ST1276-A	Reamer, Cylinder Ridge 303-016 (T64L-6011-EA)
 ST1394-A	Remover, Spark Plug Wire 303-106 (T74P-6666-A)
 ST1330-A	Compressor, Valve Spring 303-581 (T97T-6565-A)
 ST1174-A	Tensioner, Timing Chain 303-571 (T97T-6K254-A)
 ST1177-A	Holding Tool, Camshaft Sprocket 303-564 (T97T-6256-B)
 ST1176-A	Adapter for 303-564 303-578 (T97T-6256-A)
 ST1831-A	Lifting Eyes 303-050 (D81L-6001-D) or equivalent
 ST2141A	Crankshaft Socket 303-674
 ST2673-A	Spreader Bar 303-D701 or equivalent

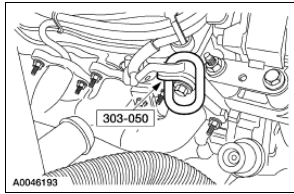
1. Remove the flywheel.



2. Remove the spacer plate.
3. Install the engine on a suitable stand.

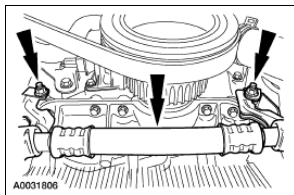
4. **NOTE:** RH shown; LH similar.

Remove the special tools.

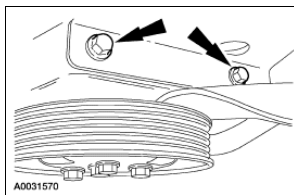


⚠ CAUTION: If the supply manifold is used as a leverage device, damage may occur to the supply manifold. Care must be taken when working around the fuel supply manifold.

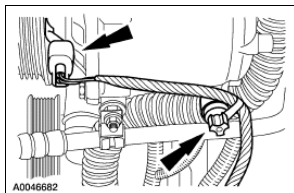
5. Remove the nuts and the A/C hose.



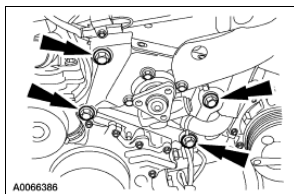
6. Remove the bolts.



7. Disconnect the A/C compressor electrical connector and wire harness retainer.



8. Remove the bolts and the accessory bracket.



9. Disconnect the generator electrical connectors and wire harness retainers.

