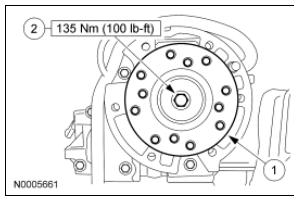
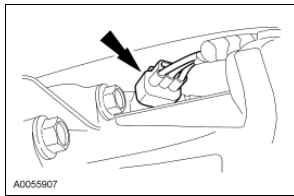


5. Install the output shaft flange.
 1. Install the output shaft flange.
 2. Install a new bolt.

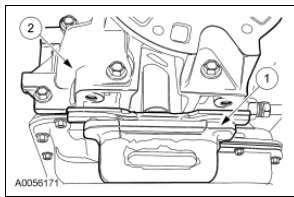


All vehicles

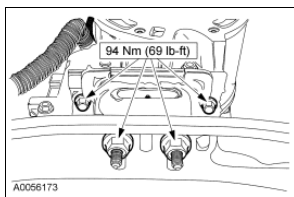
6. Connect the output shaft speed (OSS) sensor.




7. Install the rear transmission support insulator.
 1. Install the rear transmission support insulator.
 2. Lower the transmission onto the transmission support insulator.



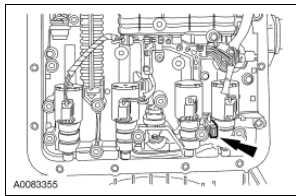
8. Install the transmission insulator bolts and nuts.



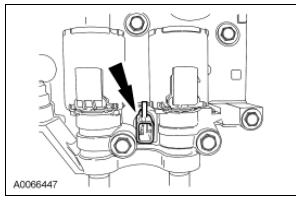
9. Install the driveshaft.
10. Start the engine. Move the transmission range selector lever through all the gear ranges, checking for engagements.
11. With the vehicle in NEUTRAL, engine running and the transmission at normal operating temperature 66-77°C (150-170°F), check and adjust the transmission fluid level, and check for any leaks. If fluid is needed, add fluid in increments of 0.24 liter (0.5 pint) until the correct level is achieved (fluid should be in the cross-hatched area of the fluid level indicator).

Transmission Fluid Temperature (TFT) Sensor  [Printable View \(74 KB\)](#)**Removal**

1. Remove the transmission fluid pan gasket and filter. For additional information, refer to [Fluid Pan, Gasket and Filter](#) in this section.
2. Disconnect the transmission fluid temperature (TFT) sensor electrical connector.



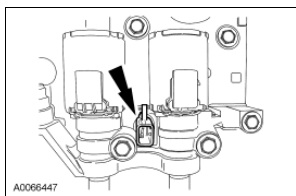
3. Press the tab, rotate the sensor counterclockwise and pull out.



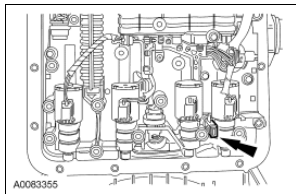
4. Inspect the O-ring. If the O-ring is damaged install a new O-ring.

Installation

1. Lubricate and install a new TFT sensor. Make sure to slightly rotate the sensor to lock it in place.



2. Connect the TFT sensor electrical connector.



3. Install the transmission fluid filter, pan gasket and pan. For additional information, refer to [Fluid Pan, Gasket and Filter](#) in this section.
4. **⚠ CAUTION:** The use of any other transmission fluid than specified can result in the

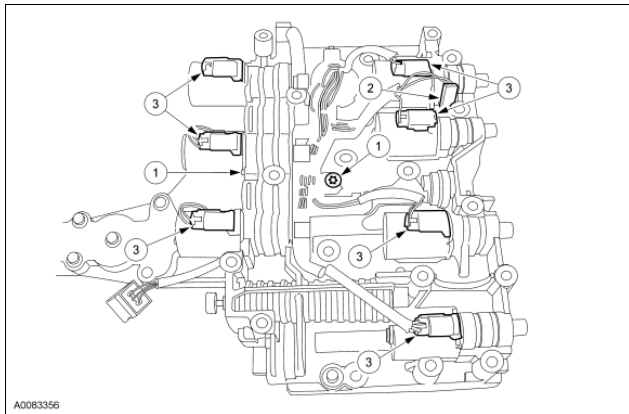
transmission failing to operate in a normal manner or transmission failure.

Fill the transmission.

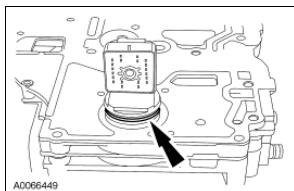
- Add 7.0 liters (7.5 quarts) of clean automatic transmission fluid to the transmission through the fluid filler tube.
5. Start the engine. Move the transmission range selector lever through all the gear ranges, checking for engagements.
 6. With the vehicle in NEUTRAL, engine running and the transmission at normal operating temperature 66-77°C (150-170°F), check and adjust the transmission fluid level, and check for any leaks. If fluid is needed, add fluid in increments of 0.24 liter (0.5 pint) until the correct level is achieved (fluid should be in the cross-hatched area of the fluid level indicator).
-

Internal Harness Service  [Printable View \(123 KB\)](#)**Removal**

1. Remove the main control solenoid body. For additional information, refer to [Solenoid Body Assembly](#) in this section.
2. Disconnect the internal wiring harness.
 1. Remove the two screws.
 2. Disconnect the transmission fluid temperature sensor electrical connector.
 3. Disconnect the solenoid electrical connectors.



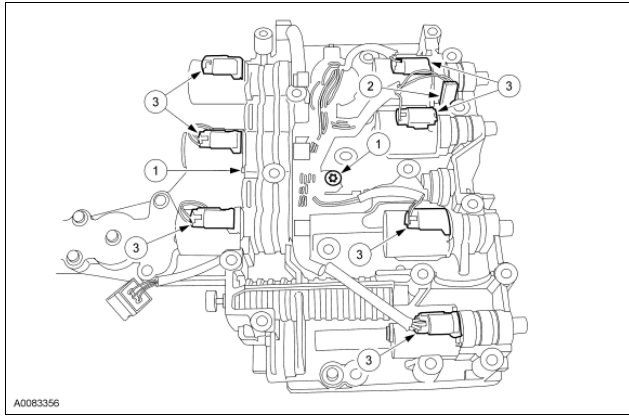
3. Remove the bulkhead connector O-ring.



4. Lift the tab twisting the bulkhead connector, and push it through the solenoid body, and remove the wire harness.

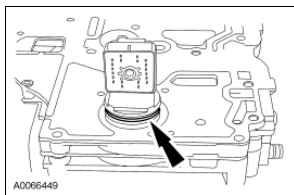
Installation

1. Push the bulkhead connector through the transmission solenoid body, twist it to lock it in place.
2. Connect the internal wiring harness.
 1. Install the two screws.
 2. Connect the transmission fluid temperature sensor electrical connector.
 3. Connect the solenoid electrical connectors.




3. **NOTE:** The O-ring must be installed in the top slot.

Install a new solenoid body bulkhead connector O-ring.



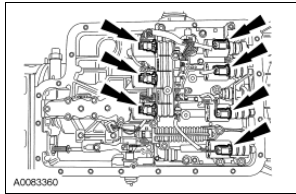
4. Install the solenoid body. For additional information, refer to Solenoid Body Assembly in this section.

Shift Solenoids (SS)  [Printable View \(96 KB\)](#)**Removal and Installation**

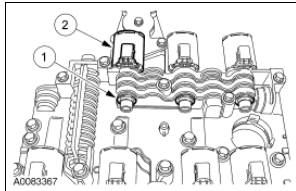
NOTE: Some solenoid body bolts and wire loom bolts will need to be removed in order to remove affected solenoids.

NOTE: The line pressure solenoid is not serviced in the vehicle. The solenoid body will need to be removed to remove line pressure solenoid. For additional information, refer to [Solenoid Body Assembly](#) in this section.

1. Remove the transmission fluid pan, gasket and filter. For additional information, refer to [Fluid Pan, Gasket and Filter](#) in this section.
2. Disconnect the affected shift solenoid electrical connector.



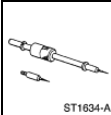
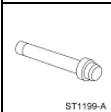
3. Remove the affected shift solenoid.
 1. Remove the retaining E-clip.
 2. Remove the affected shift solenoid.



4. To install, reverse the removal procedure.
-

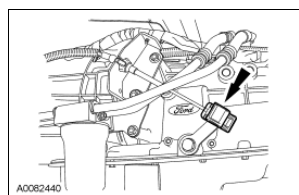
Manual Control Lever Shaft and Seal  [Printable View \(236 KB\)](#)

Special Tool(s)

 <p>ST1634-A</p>	<p>Roll Pin Set 211-S060 (T78P-3504-N)</p>
 <p>ST1199-A</p>	<p>Installer, Shift Shaft Fluid Seal 307-002 (TOOL-77288)</p>

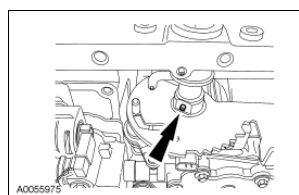
Removal

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#).
2. Disconnect the shift cable end.

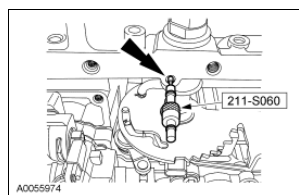


3. Remove the transmission fluid pan, gasket and filter. For additional information, refer to [Fluid Pan, Gasket and Filter](#) in this section.
4. **NOTE:** The pin should be driven up through the manual lever.

Remove and discard the manual valve detent lever shaft retaining pin.

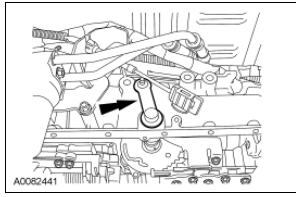


5. Using the special tool, remove the manual valve detent lever shaft retaining pin.



6. **⚠ CAUTION:** Be careful not to damage the manual control lever bore.

Remove the manual control lever shaft assembly.

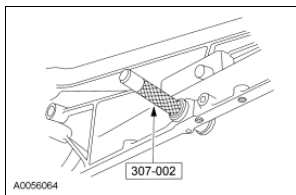


7. Using a suitable tool, remove the manual control lever seal and discard.

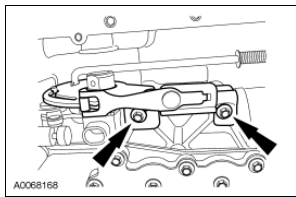
Installation

1. **NOTE:** Prior to installing the manual control lever seal, clean the bore opening with mineral spirits.

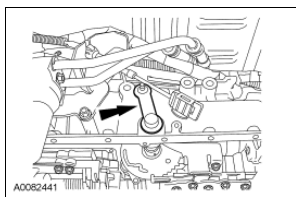
Using the special tool, install the manual control lever seal.



2. Loosen the two bolts on the transmission range sensor.

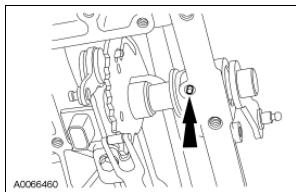


3. Install the manual control lever shaft.



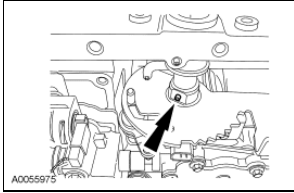
4. **NOTE:** Leave a small portion of the pin exposed.

Install the manual valve detent lever shaft retaining pin into the case.

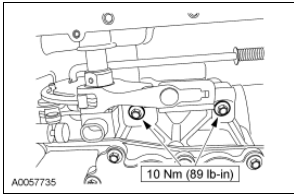


5. **NOTE:** When the retaining pin is installed correctly, 2 mm (0.08 in) of the pin will be exposed.

Install a new manual valve detent lever shaft retaining pin.

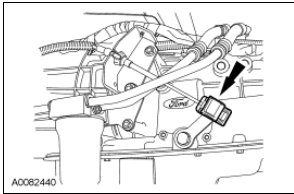


6. Tighten the transmission range (TR) sensor bolts.



7. Install the transmission fluid pan, gasket and filter. For additional information, refer to [Fluid Pan, Gasket and Filter](#) in this section.

8. Connect the shift cable end.



9. Adjust the shift linkage. Verify that the vehicle starts in PARK and NEUTRAL and the reverse lamps illuminate in REVERSE. For additional information, refer to [Section 307-05](#).
