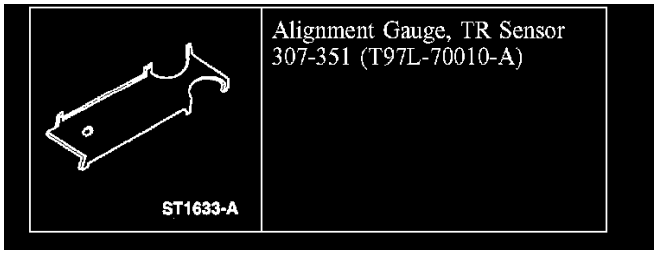
Transmission Position Sensor/Switch: Service and Repair

Digital Transmission Range (TR) Sensor-4x4



Special Tools And Equipment

Special Tool(s)

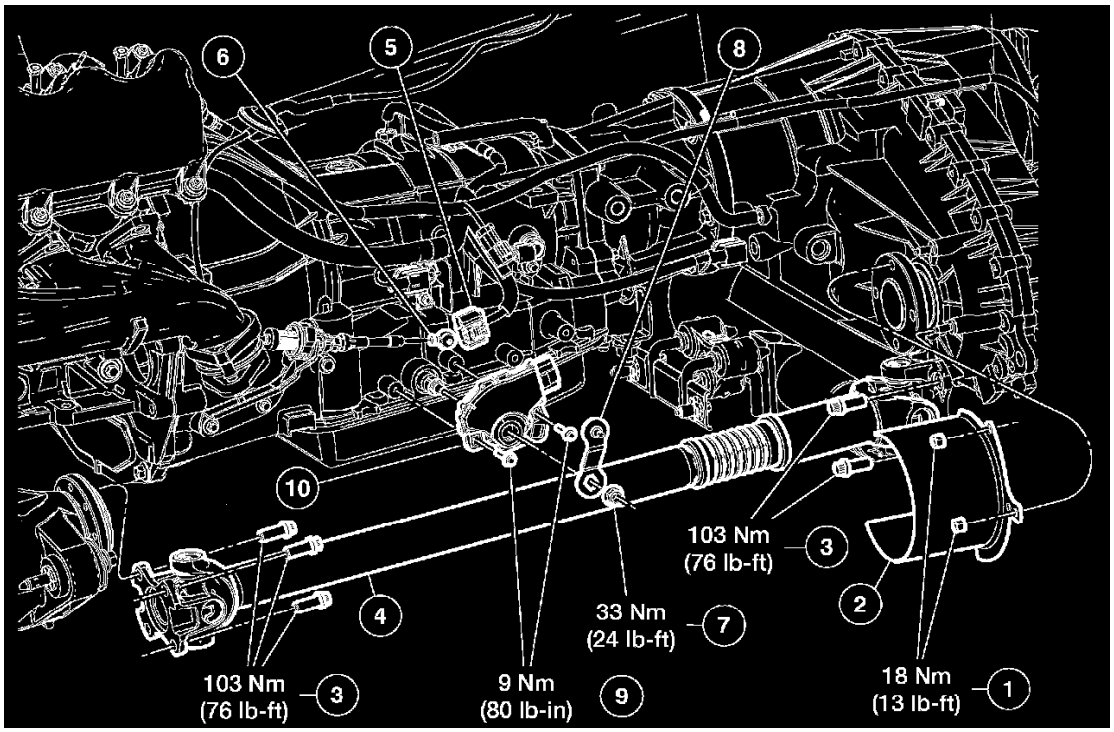
Removal and Installation

CAUTION: Do not pry on the swivel tube to disconnect the transmission shift linkage.

CAUTION: Discard outer manual control lever shaft nut. Do not reuse. The old nut will not retain torque specification.

NOTE: Manual shift lever must be in the NEUTRAL position.

1. With the vehicle in NEUTRAL, position it on a hoist.

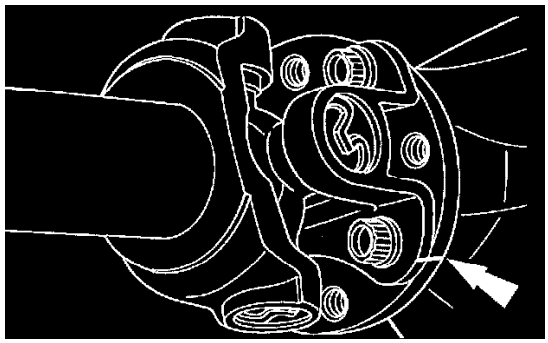


Item	Part Number	Description
1	—	Front driveshaft shield nuts
2	—	Front driveshaft shield
3	—	Front driveshaft bolts
4	4A376	Front driveshaft Removal Note Installation Note
5	14A464	Digital TR sensor electrical connector
6	—	Transmission shift cable end (part of 7E395)
7	N808737-S427	Manual control lever outer nut
8	7A256	Manual control lever
9	N806933-S102	Digital TR sensor bolts
10	7A247	Digital TR sensor Installation Note

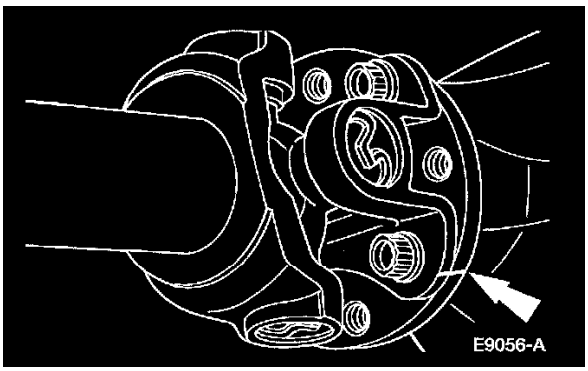
2. **NOTE:** The front driveshaft does not need to be removed from the vehicle. Position the front driveshaft out of the way.

   Remove the parts in the order listed in the illustration and table.
3. To install, reverse the removal procedure.

Item 4: Front Driveshaft Removal Note

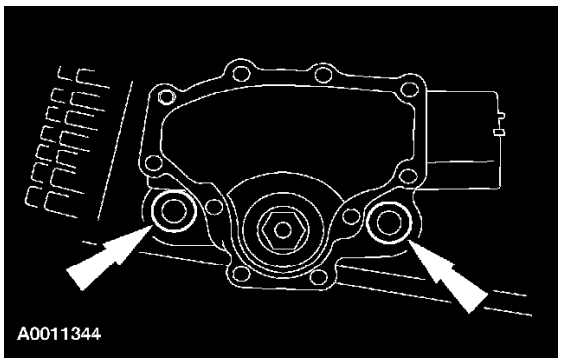


1. Index-mark the front flange.

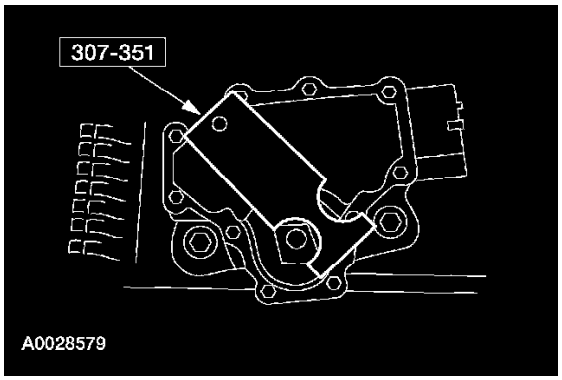


2. Index-mark the rear flange at the transfer case.

Item 10: Digital TR Sensor Installation Note

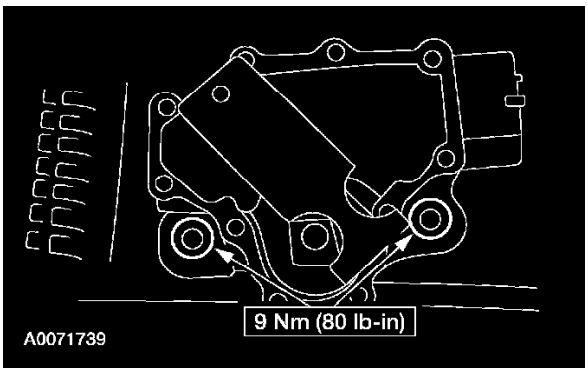


1. Install the digital TR sensor and loosely install the bolts.



2. **NOTE:** The manual lever must be in the NEUTRAL position.

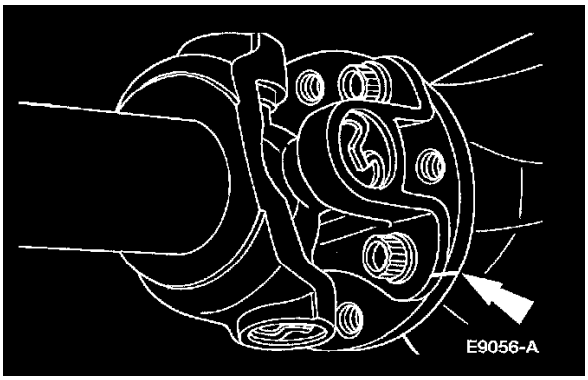
   Using the special tool, align the digital TR sensor slots. The tool is designed to fit snug.



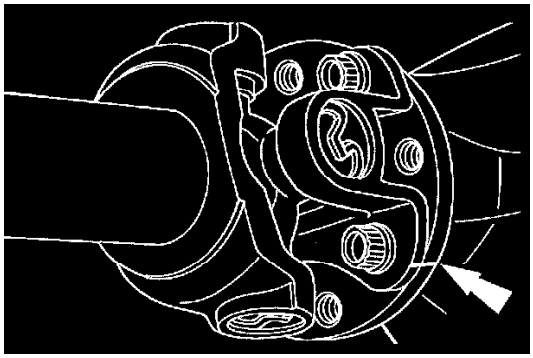
3. **CAUTION:** Tightening one screw before tightening the other may cause the sensor to bind or become damaged.

   Tighten the bolts.

Item 4: Front Driveshaft Installation Note



1. Align the index mark on the front flange.



2. Align the index mark on the rear flange at the transfer case.