

SENSOR, SPEED, INPUT

DESCRIPTION

DESCRIPTION

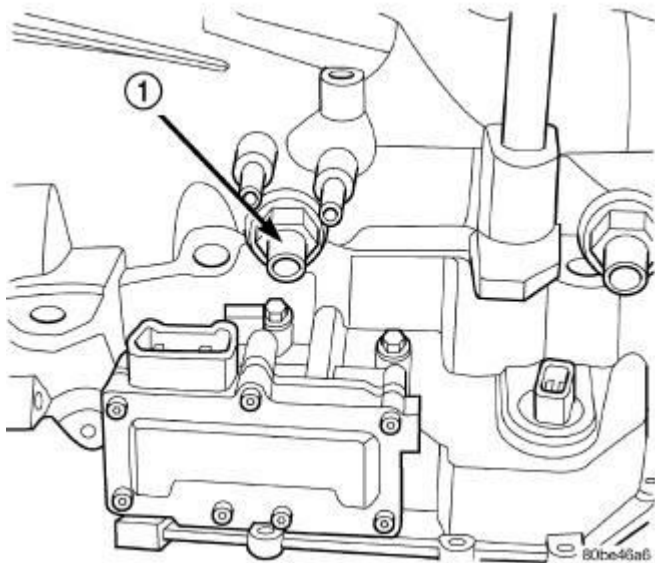


Fig. 343: Input Speed Sensor Location

Courtesy of CHRYSLER LLC

1 - INPUT SPEED SENSOR

The Input Speed Sensor (1) , is a two-wire magnetic pickup device that generates AC signals as rotation occurs. It is threaded into the transaxle case.

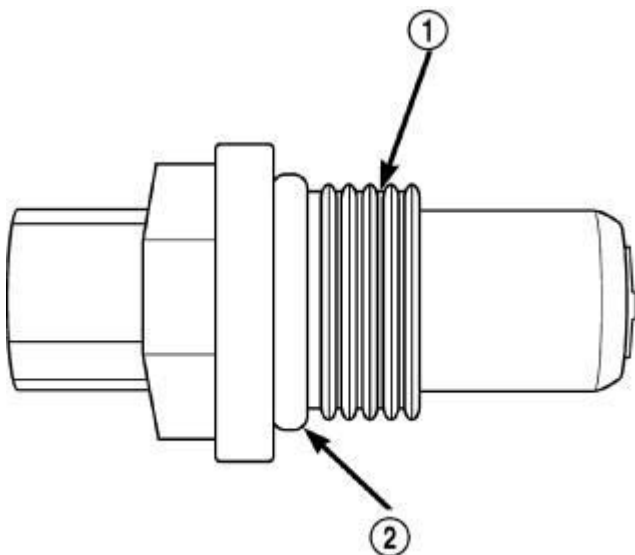


Fig. 344: Identifying Input Speed Sensor And O-Ring

Courtesy of CHRYSLER LLC

1 - INPUT SPEED SENSOR

2 - O-RING

The Input Speed Sensor (1) is sealed with an O-ring (2), and is considered a primary input to the Powertrain/Transmission Control Module.

OPERATION

OPERATION

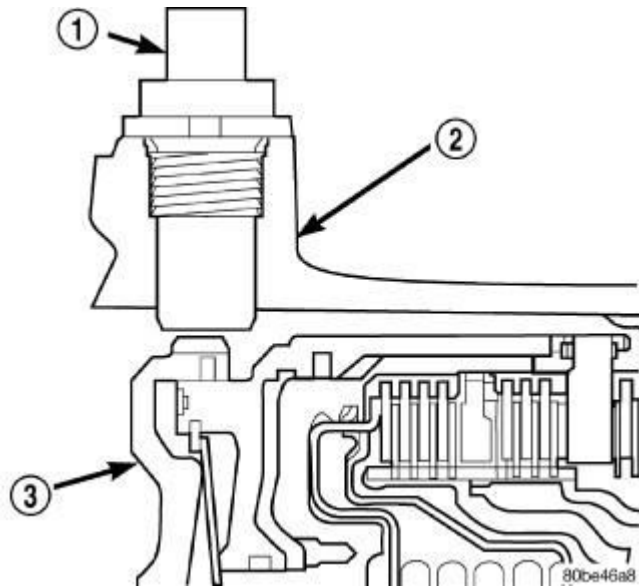


Fig. 345: Sensor Relation to Input Clutch Hub
Courtesy of CHRYSLER LLC

1 - INPUT SPEED SENSOR

2 - TRANSAXLE CASE

3 - INPUT CLUTCH HUB

The Input Speed Sensor (1) provides information on how fast the input shaft is rotating. As the teeth of the input clutch hub (3) pass by the sensor coil, an AC voltage is generated and sent to the PCM/TCM. The PCM/TCM interprets this information as input shaft rpm.

The PCM/TCM compares the input speed signal with output speed signal to determine the following:

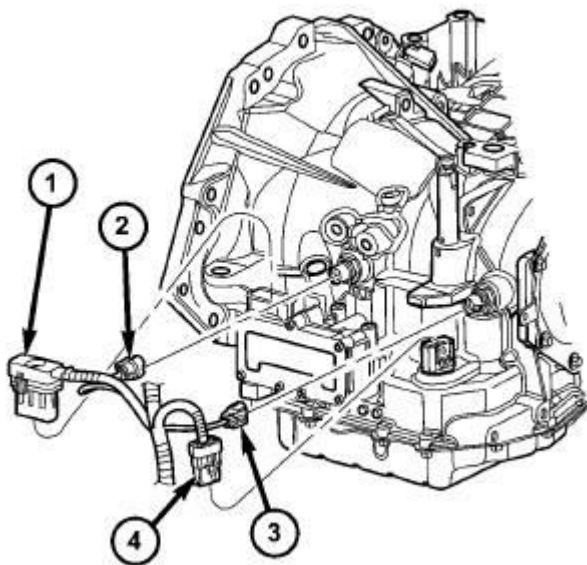
- Transmission gear ratio
- Speed ratio error detection
- CVI calculation

The PCM/TCM also compares the input speed signal and the engine speed signal to determine the following:

- Torque converter clutch slippage
- Torque converter element speed ratio

REMOVAL

REMOVAL



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Fig. 346: Transmission Connectors
Courtesy of CHRYSLER LLC

- | |
|---|
| 1 - SOLENOID PACK CONNECTOR
2 - INPUT SPEED SENSOR CONNECTOR
3 - OUTPUT SPEED SENSOR CONNECTOR
4 - TRANSMISSION RANGE SENSOR CONNECTOR |
|---|

1. Disconnect battery negative cable.
2. Disconnect input speed sensor connector (2) .

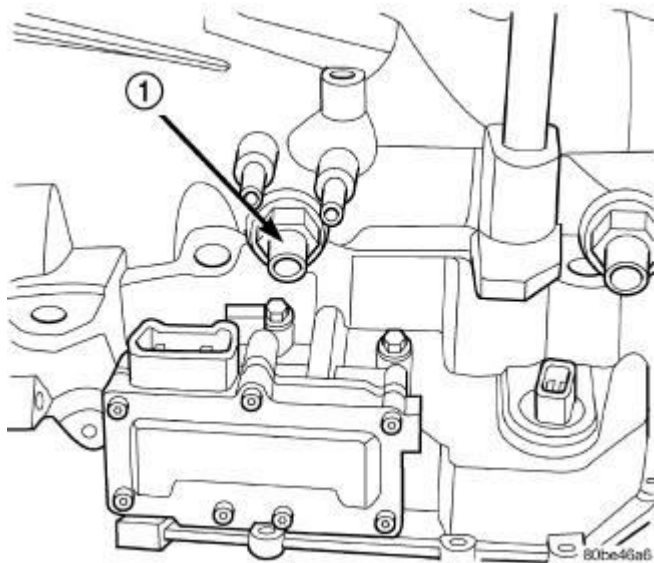
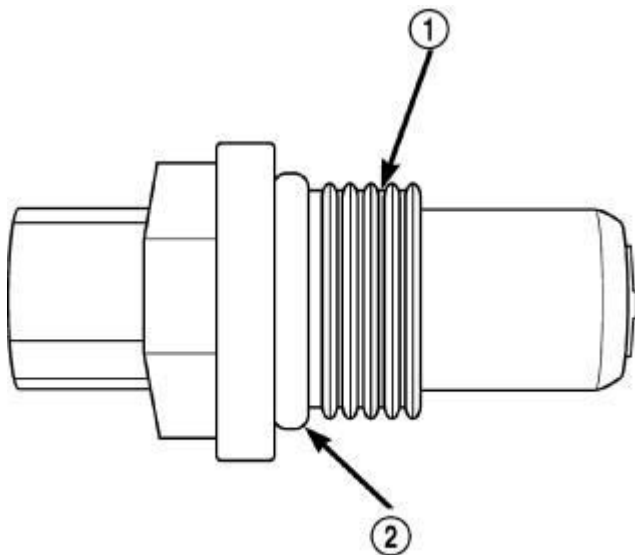


Fig. 347: Input (Turbine) Speed Sensor
Courtesy of CHRYSLER LLC

1 -
INPUT
SPEED
SENSOR

3. Unscrew and remove input speed sensor (1) .



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Fig. 348: Identifying Input Speed Sensor And O-Ring
Courtesy of CHRYSLER LLC

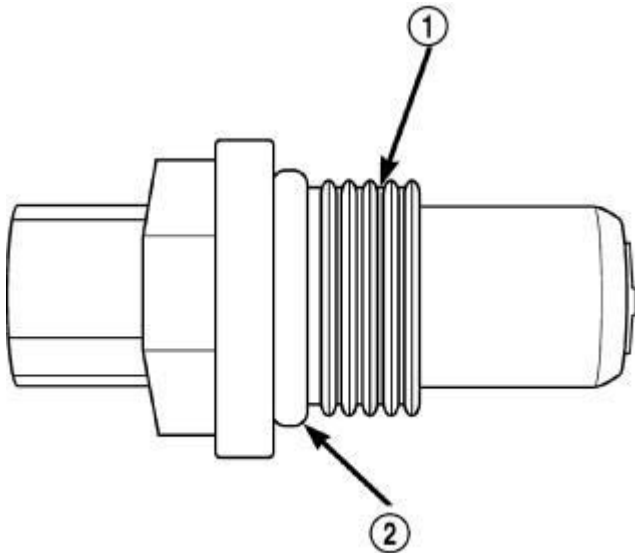
1 -
INPUT
SPEED
SENSOR

2 - O-
RING

4. Inspect speed sensor O-ring (2) and replace if necessary.

INSTALLATION

INSTALLATION



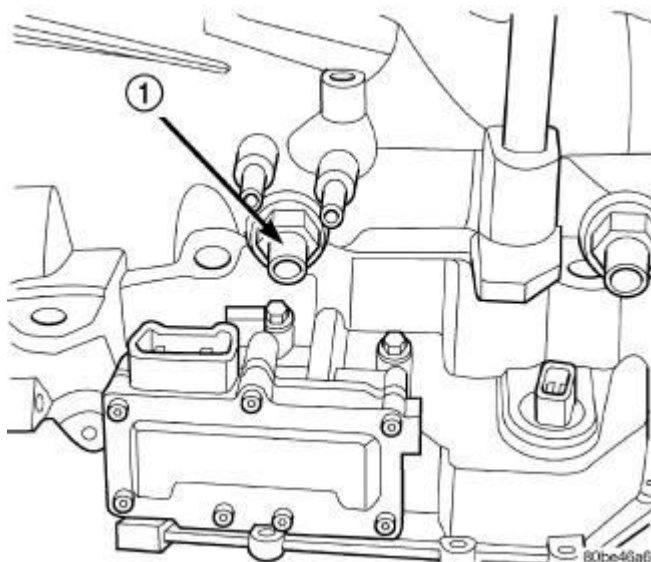
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Fig. 349: Identifying Input Speed Sensor And O-Ring
Courtesy of CHRYSLER LLC

1 - INPUT SPEED SENSOR

2 - O-RING

1. Inspect speed sensor o-ring (2) and replace if necessary.

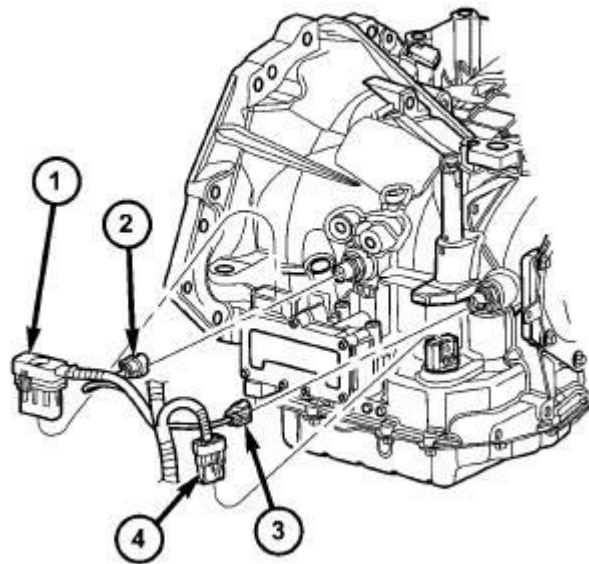


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Fig. 350: Input (Turbine) Speed Sensor
Courtesy of CHRYSLER LLC

1 -
INPUT
SPEED
SENSOR

2. Install and tighten the input speed sensor (1) to 27 N.m (20 ft. lbs.).



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Fig. 351: Transmission Connectors
Courtesy of CHRYSLER LLC

1 - SOLENOID PACK CONNECTOR
2 - INPUT SPEED SENSOR CONNECTOR
3 - OUTPUT SPEED SENSOR CONNECTOR
4 - TRANSMISSION RANGE SENSOR CONNECTOR

3. Connect input speed sensor connector (2) .
4. Connect battery negative cable.