

307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80
Removal and Installation

2019 Ranger
Procedure revision date: 12/13/2018

Transmission Range (TR) Sensor

Base Part Number: 7F293

Special Tool(s) / General Equipment

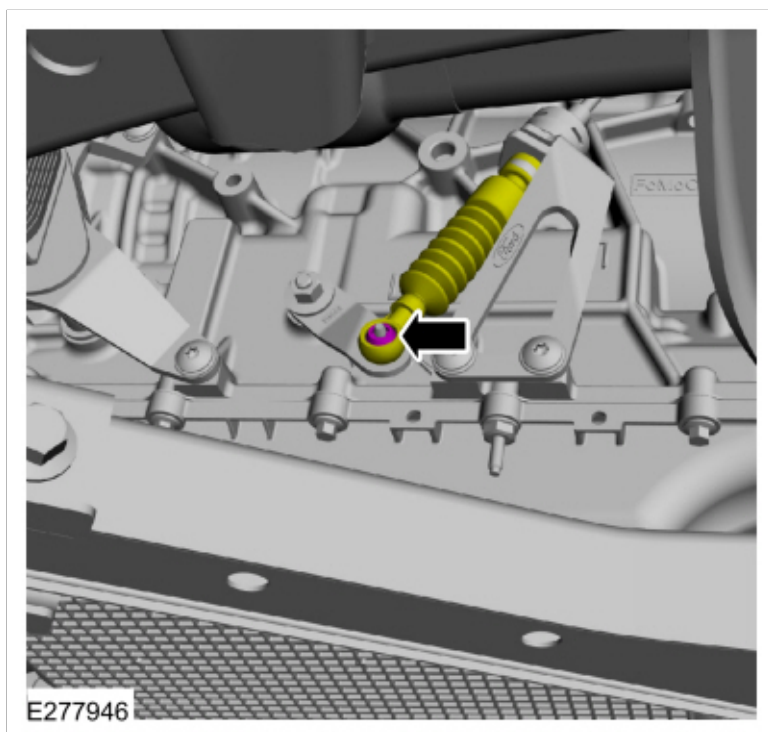
Punch

Removal

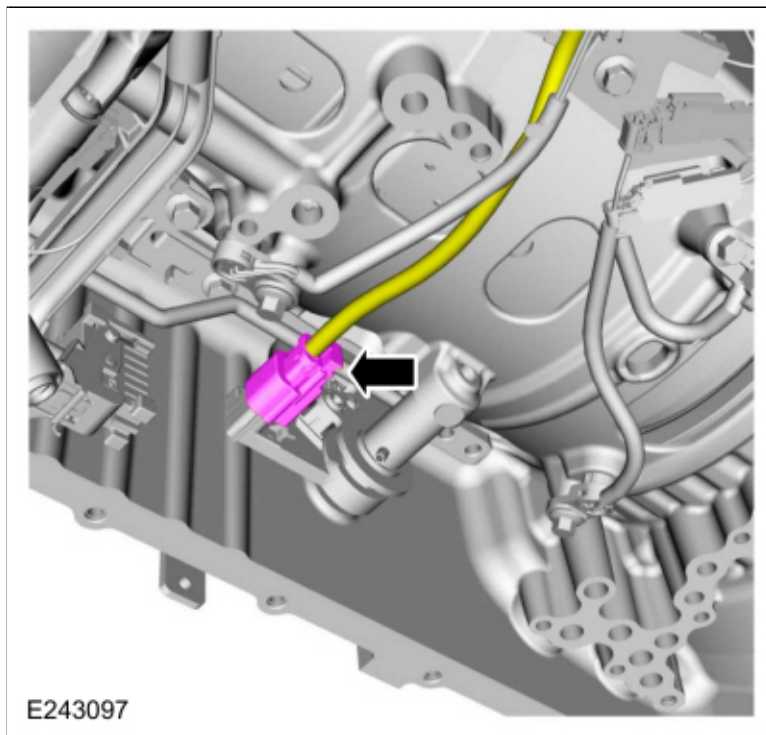
1. Remove the main control valve body.
Refer to: [Main Control Valve Body](#) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
Refer to: [Main Control Valve Body - Vehicles With: Auto-Start-Stop](#) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).

2. **NOTICE: Take extra care when handling selector lever cable.**

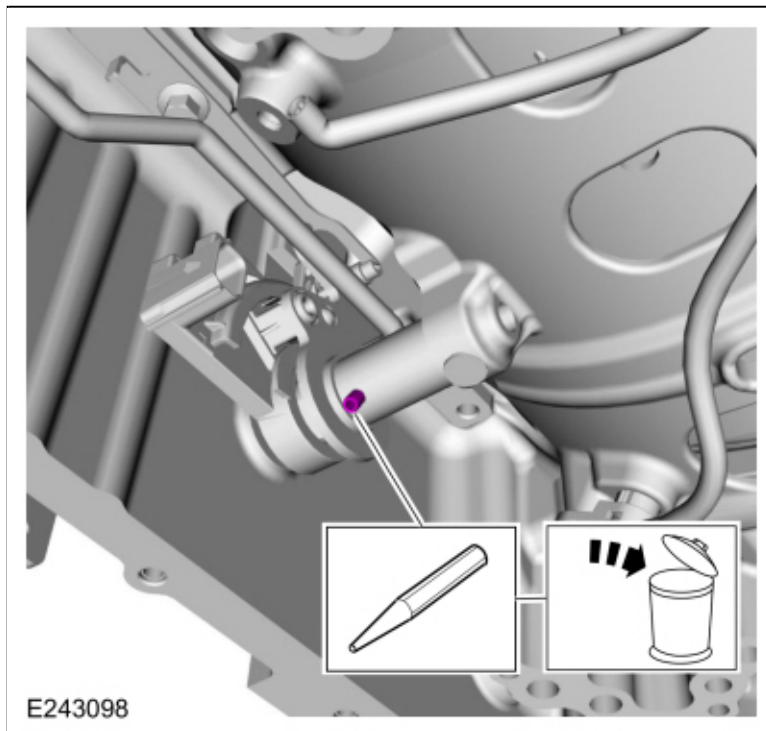
Disconnect the selector lever cable from the manual control lever.



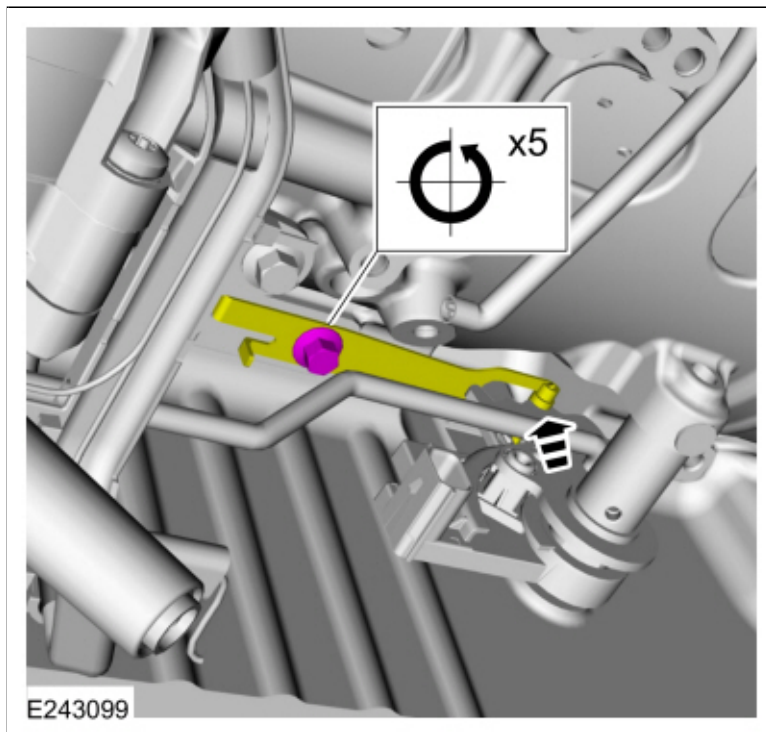
3. Disconnect the TR sensor electrical connector and position the transmission wiring harness aside.



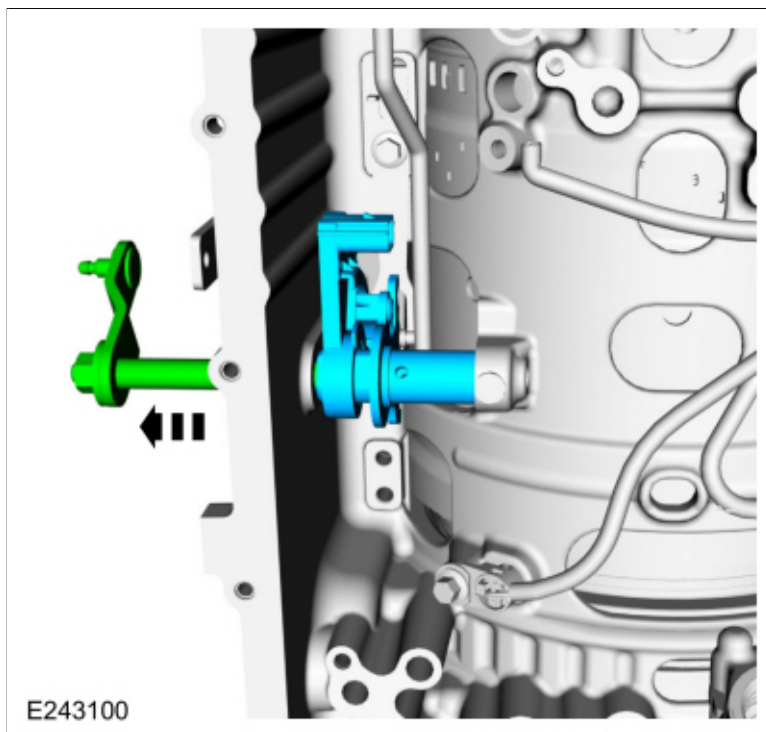
4. Using a punch, remove and discard the manual shaft-to-TR sensor roll pin (7G100).
Use the General Equipment: Punch



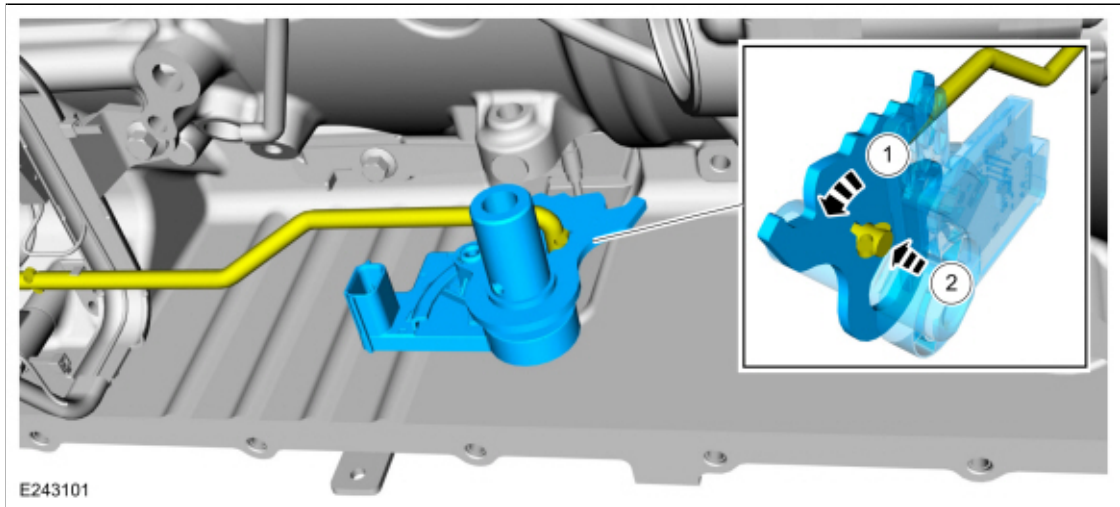
5. Loosen the detent spring bolt and the detent spring enough to remove the tension from the TR sensor.



6. Remove the manual shaft and selector lever from the TR sensor.

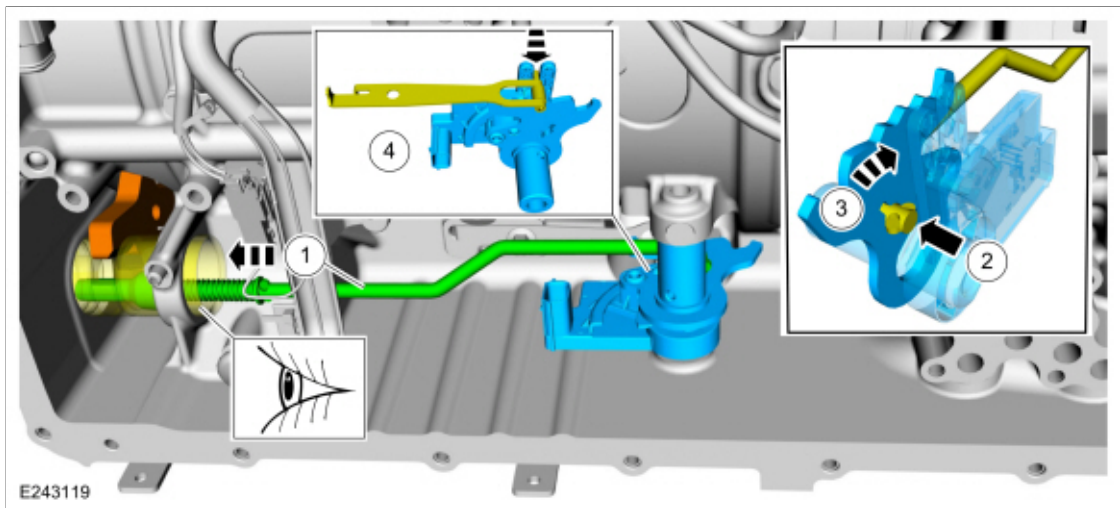


7. Remove the TR sensor (7H557).
1. Rotate the TR sensor.
 2. Disconnect the park pawl actuator rod and remove the TR sensor.

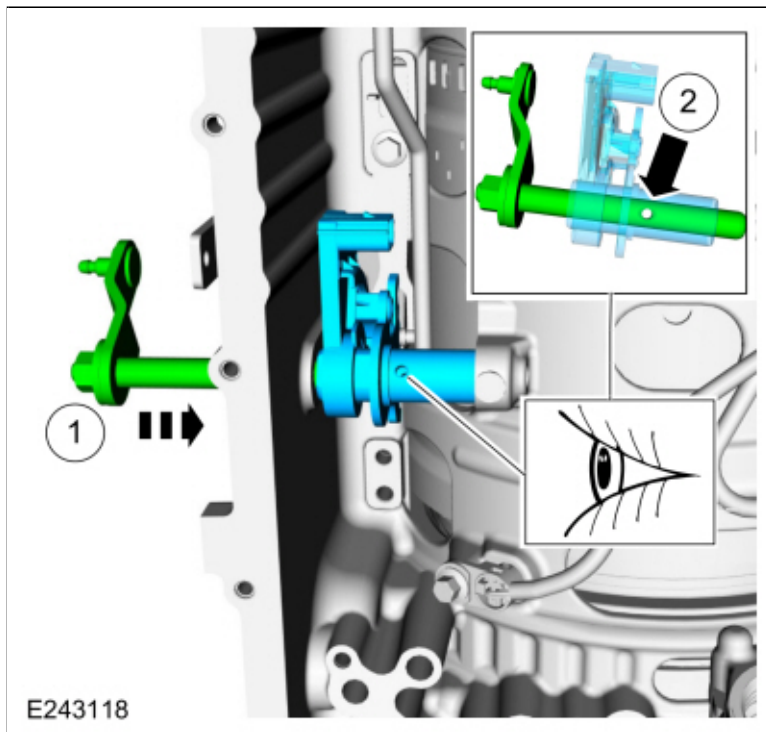


Installation

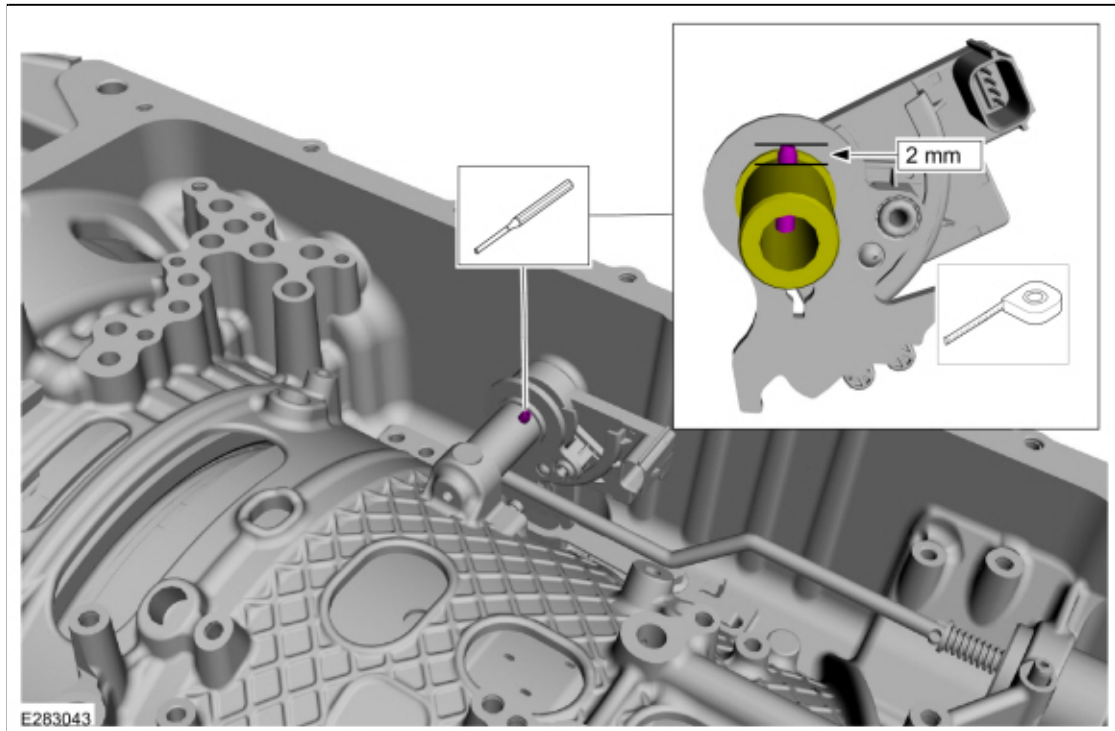
1. Install the TR sensor (7H557).
 1. Position the park pawl actuator rod into the park pawl sleeve.
 2. Connect the park pawl actuator rod to the TR sensor.
 3. Rotate the TR sensor.
 4. Align the TR sensor to the detent spring.



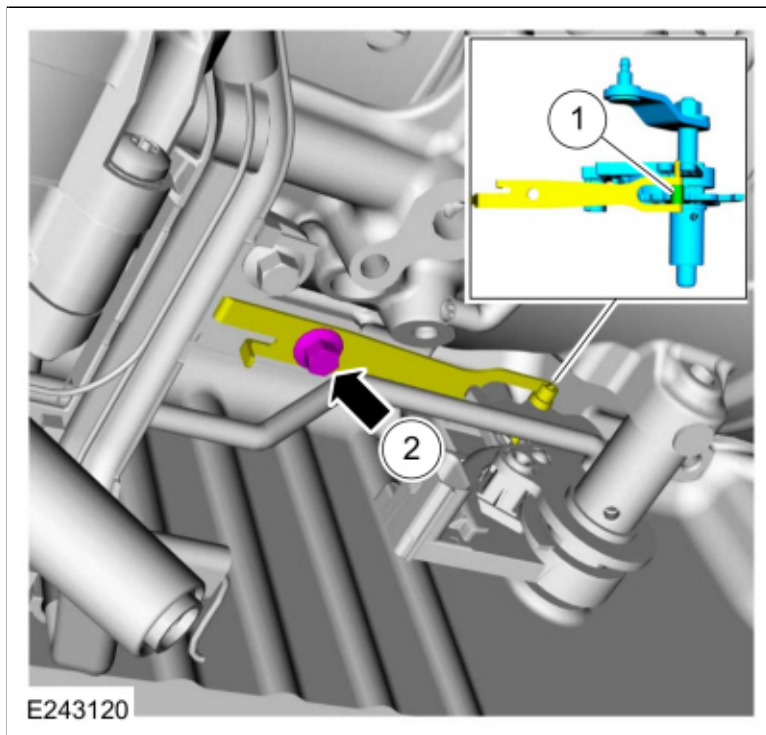
2.
 1. Slide the manual shaft and selector lever into the TR sensor.
 2. Align the TR sensor roll pin hole.



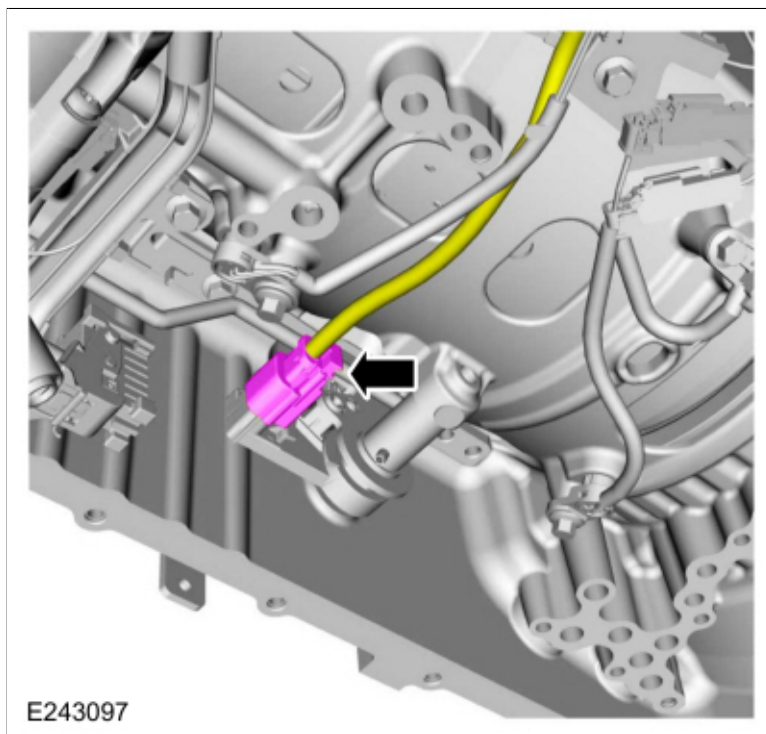
3. Install the new manual shaft-to-TR sensor roll pin to the specified height.
Use the General Equipment: Punch



4.
 1. Align the detent spring in the center of the TR sensor.
 2. Torque: 97 lb.in (11 Nm)

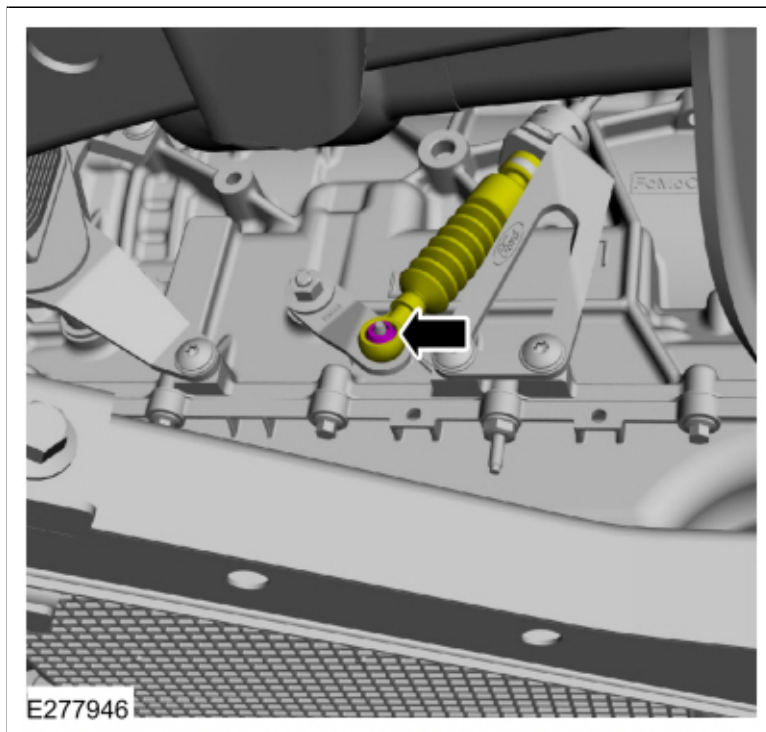


5. Connect the TR sensor electrical connector.



6. **NOTICE:** Take extra care when handling selector lever cable.

Connect the selector lever cable to the manual control lever.



7. Install the main control valve body.
Refer to: [Main Control Valve Body](#) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).
Refer to: [Main Control Valve Body - Vehicles With: Auto-Start-Stop](#) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).

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