

FRONT SERVO (Continued)

(2) Install rod in piston. Install spring and washer on rod. Compress spring and install snap-ring (Fig. 101).

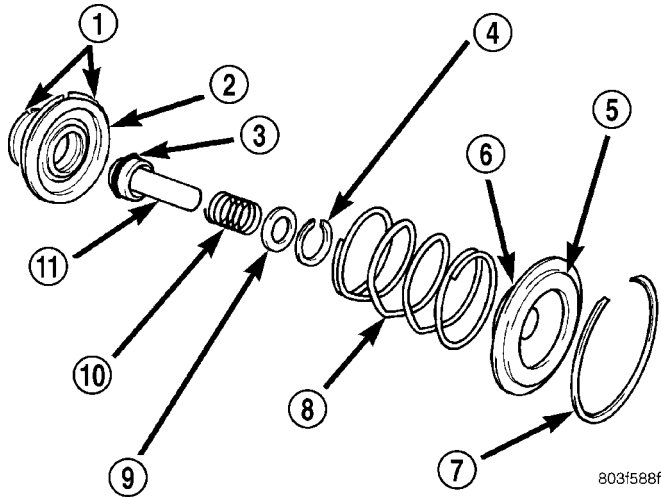


Fig. 101 Front Servo

- 1 - PISTON RINGS
- 2 - SERVO PISTON
- 3 - O-RING
- 4 - SNAP-RING
- 5 - PISTON ROD GUIDE
- 6 - SEAL RING
- 7 - SNAP-RING
- 8 - SERVO SPRING
- 9 - WASHER
- 10 - SPRING
- 11 - PISTON ROD

(3) Disengage cable eyelet at transmission shift lever and pull cable adjuster out of mounting bracket (Fig. 102) or (Fig. 103).

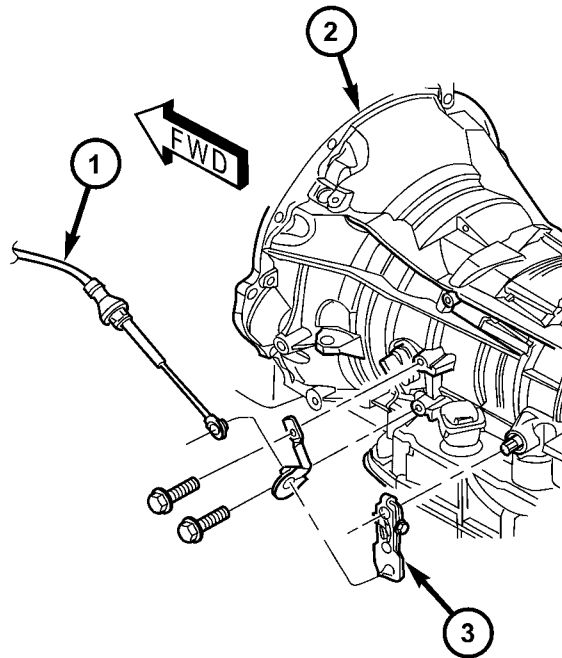


Fig. 102 Gearshift Cable at Transmission - RFE

- 1 - GEARSHIFT CABLE
- 2 - RFE TRANSMISSION
- 3 - MANUAL LEVER

GEARSHIFT CABLE

DIAGNOSIS AND TESTING - GEARSHIFT CABLE

(1) Engine starts must be possible with shift lever in PARK or NEUTRAL positions only. Engine starts must not be possible in any other gear position.

(2) With the shift lever in the:

(a) PARK position - Apply upward force on the shift arm and remove pressure. Engine starts must be possible.

(b) PARK position - Apply downward force on the shift arm and remove pressure. Engine starts must be possible.

(c) NEUTRAL position - Normal position. Engine starts must be possible.

(d) NEUTRAL position - Engine running and brakes applied, apply upward force on the shift arm. Transmission shall not be able to shift from neutral to reverse.

REMOVAL

- (1) Shift transmission into PARK.
- (2) Raise vehicle.

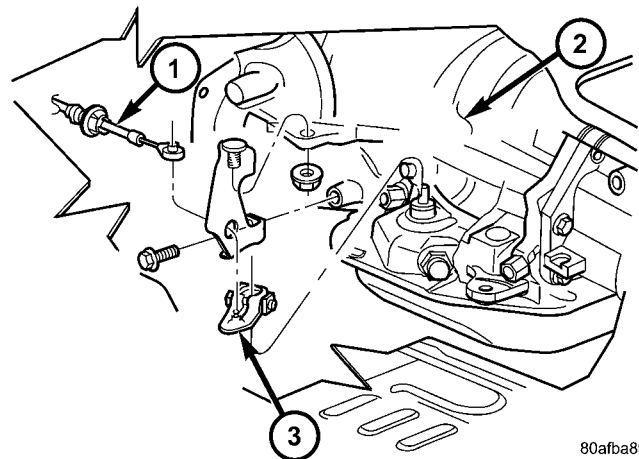
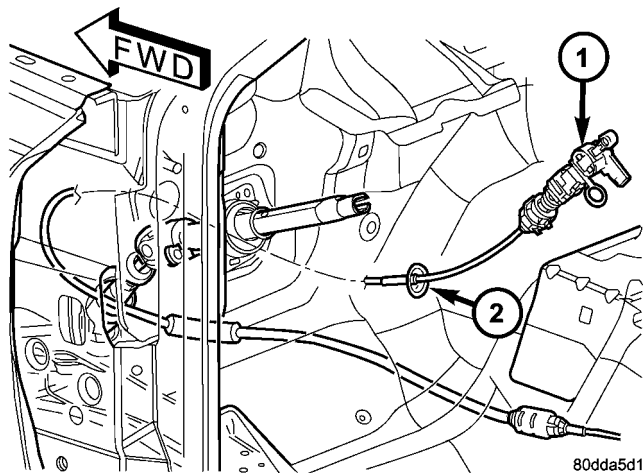


Fig. 103 Gearshift Cable at Transmission - RE

- 1 - GEARSHIFT CABLE
- 2 - RE TRANSMISSION
- 3 - MANUAL LEVER

GEARSHIFT CABLE (Continued)

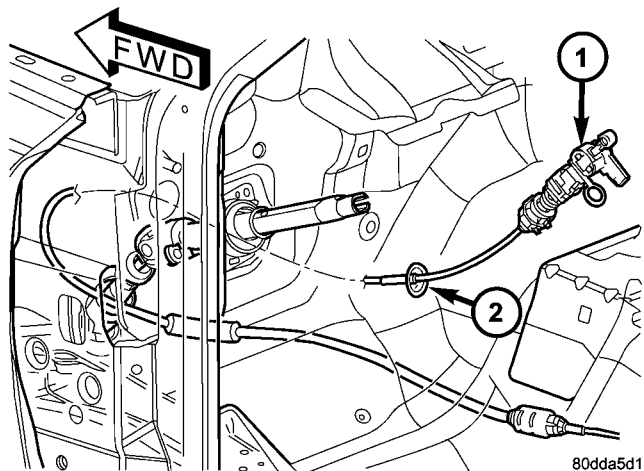
- (4) Lower the vehicle.
- (5) Remove the dash panel insulation pad as necessary to access the gearshift cable grommet (Fig. 104).
- (6) Remove grommet from the dash panel.
- (7) Remove any steering column trim necessary to access the gearshift cable and BTSI mechanism.
- (8) Disconnect the BTSI wiring connector.
- (9) Disconnect cable at lower column bracket and shift lever pin and pull the cable through the dash panel opening into the vehicle (Fig. 105).

**Fig. 104 Gearshift Cable at the Dash Panel**

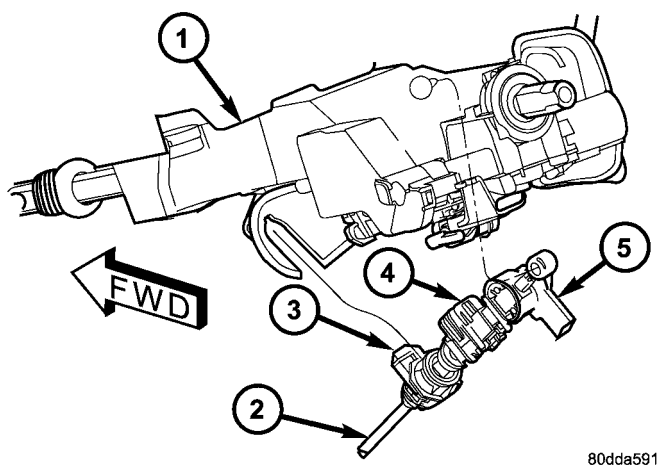
- 1 - GEARSHIFT CABLE
- 2 - GROMMET

INSTALLATION

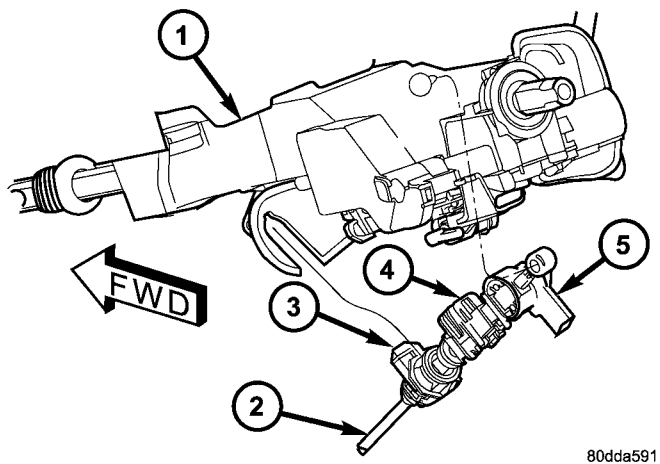
- (1) Route the transmission end of the gearshift cable through the opening in the dash panel (Fig. 106).
- (2) Seat the cable grommet into the dash panel opening.
- (3) Snap the cable into the steering column bracket so the retaining ears (Fig. 107) are engaged and snap the cable eyelet onto the shift lever ball stud.

**Fig. 106 Gearshift Cable at the Dash Panel**

- 1 - GEARSHIFT CABLE
- 2 - GROMMET

**Fig. 105 Gearshift Cable at Steering Column**

- 1 - STEERING COLUMN
- 2 - GEARSHIFT CABLE
- 3 - GEARSHIFT CABLE LOCK TAB
- 4 - BTSI SOLENOID LOCK TAB
- 5 - BTSI CONNECTOR

**Fig. 107 Gearshift Cable at Steering Column**

- 1 - STEERING COLUMN
- 2 - GEARSHIFT CABLE
- 3 - GEARSHIFT CABLE LOCK TAB
- 4 - BTSI SOLENOID LOCK TAB
- 5 - BTSI CONNECTOR

- (10) Remove gearshift cable from vehicle.

- (4) Raise the vehicle.
- (5) Place the transmission manual shift lever in the "PARK" detent (rearmost) position and rotate prop shaft to ensure transmission is in PARK.

GEARSHIFT CABLE (Continued)

(6) Route the gearshift cable through the transmission mounting bracket and secure the cable by snapping the cable retaining ears into the transmission bracket and snapping the cable eyelet on the manual shift lever ball stud.

(7) Lower vehicle.

(8) Lock the shift cable adjustment by pressing the cable adjuster lock tab downward until it snaps into place.

(9) Check for proper operation of the transmission range sensor.

(10) Adjust the gearshift cable (Refer to 21 - TRANSMISSION/AUTOMATIC/GEAR SHIFT CABLE - ADJUSTMENTS) and BTSI mechanism (Refer to 21 - TRANSMISSION/AUTOMATIC/BRAKE TRANSMISSION SHIFT INTERLOCK SYSTEM - ADJUSTMENTS) as necessary.

ADJUSTMENTS

GEARSHIFT CABLE

Check adjustment by starting the engine in PARK and NEUTRAL. Adjustment is CORRECT if the engine starts in these positions. Adjustment is INCORRECT if the engine starts in one but not both positions. If the engine starts in any position other than PARK or NEUTRAL, or if the engine will not start at all, the transmission range sensor may be faulty.

Gearshift Adjustment Procedure

- (1) Shift transmission into PARK.
- (2) Release cable adjuster lock tab (underneath the steering column) (Fig. 108) to unlock cable.
- (3) Raise vehicle.
- (4) Disengage the cable eyelet from the transmission manual shift lever.

(5) Verify transmission shift lever is in PARK detent by moving lever fully rearward. Last rearward detent is PARK position.

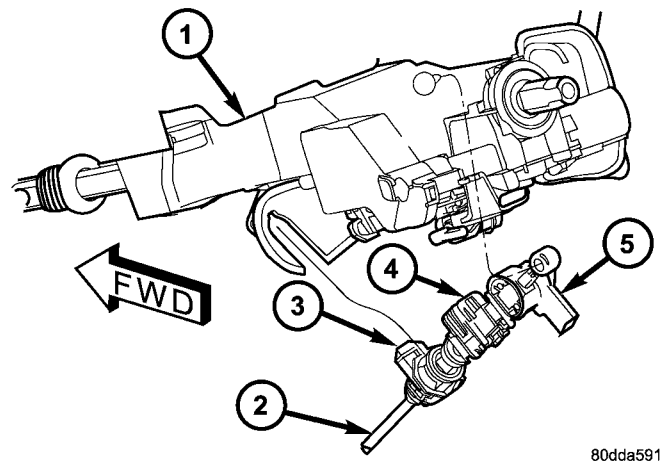
(6) Verify positive engagement of transmission park lock by attempting to rotate propeller shaft. Shaft will not rotate when park lock is engaged.

(7) Snap the cable eyelet onto the transmission manual shift lever.

(8) Lower vehicle.

(9) Lock shift cable by pressing cable adjuster lock tab downward until it snaps into place.

(10) Check engine starting. Engine should start only in PARK and NEUTRAL



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Fig. 108 Gearshift Cable at Steering Column

- 1 - STEERING COLUMN
- 2 - GEARSHIFT CABLE
- 3 - GEARSHIFT CABLE LOCK TAB
- 4 - BTSI SOLENOID LOCK TAB
- 5 - BTSI CONNECTOR