CLUTCH PEDAL REPLACEMENT

Removal Procedure

1. Remove the driver's side knee bolster and deflector. Refer to Knee Bolster Replacement in Instrument Panel, Gages, and Console.
2. Disconnect and reposition the junction block.
3. Disconnect the clutch pedal position switch electrical connector (1).

Fig. 1: Clutch Pedal Position Switch Electrical Connector  
Courtesy of GENERAL MOTORS CORP.
4. Push the clutch pedal in and squeeze the pushrod bushing tabs in, in order to release the pushrod bushing from the clutch pedal.

**Fig. 2: Clutch Master Cylinder To Clutch Actuator Cylinder Quick Connect Fitting (NV 3500 or NV 4500 Transmission)**

Courtesy of GENERAL MOTORS CORP.
5. If equipped with a NV 3500 or NV 4500 transmission, disconnect the clutch master cylinder to clutch actuator cylinder quick connect fitting.

6. Remove the clutch master cylinder clip from the brake pressure module valve pipe.

Fig. 3: Clutch Master Cylinder To Clutch Actuator Cylinder Quick Connect Fitting (ZF S6-650 Transmission)
Courtesy of GENERAL MOTORS CORP.

7. If equipped with a ZF S6-650 transmission, disconnect the clutch master cylinder to clutch actuator...
cylinder quick connect fitting.

Fig. 4: Rotating The Clutch Master Cylinder 45 Degrees
Courtesy of GENERAL MOTORS CORP.

**IMPORTANT:** Complete removal of the clutch master cylinder is not required.

8. Rotate the clutch master cylinder 45 degrees clockwise to the unlocked position.
9. Pull the clutch master cylinder out until the pushrod socket is not touching the clutch pedal.
Fig. 5: Clutch Pedal Bracket Assembly
Courtesy of GENERAL MOTORS CORP.

10. Remove the clutch pedal to clutch pedal bracket bolt.
Fig. 6: Clutch Pedal And Brake Module Assembly  
Courtesy of GENERAL MOTORS CORP.

11. Remove the clutch pedal to brake module bolts.
12. Remove the clutch pedal sub-assembly.

Installation Procedure
Fig. 7: Clutch Pedal And Brake Module Assembly
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

1. Install the clutch pedal sub-assembly.
2. Install the clutch pedal to brake module bolts.

Tighten: Tighten the bolts to 50 N.m (37 lb ft).
Fig. 8: Clutch Pedal Bracket Assembly  
Courtesy of GENERAL MOTORS CORP.

3. Install the clutch pedal to clutch pedal bracket bolt.

**Tighten:** Tighten the bolt to 36 N.m (27 lb ft).
4. Push the clutch master cylinder in until the pushrod socket is touching the clutch pedal.
5. Push in and rotate the clutch master cylinder 45 degrees counterclockwise to the locked position.
6. If equipped with a ZF S6-650 transmission, connect the clutch master cylinder to clutch actuator cylinder quick connect fitting.

**Fig. 10: Clutch Master Cylinder To Clutch Actuator Cylinder Quick Connect Fitting (ZF S6-650 Transmission)**
Courtesy of GENERAL MOTORS CORP.
Fig. 11: Clutch Master Cylinder To Clutch Actuator Cylinder Quick Connect Fitting (NV 3500 or NV 4500 Transmission)
Courtesy of GENERAL MOTORS CORP.

7. If equipped with a NV 3500 or NV 4500 transmission, connect the clutch master cylinder to clutch actuator cylinder quick connect fitting.

8. Install the clutch master cylinder clip to the brake pressure module valve pipe.
9. Apply light pressure to the clutch pedal to couple the pushrod socket to the clutch pedal.
10. Connect the clutch pedal position switch electrical connector (1).
11. Pump the clutch pedal 3 time prior to starting the vehicle to ensure connection is complete.
12. Position and connect the junction block.
13. Install the driver's side knee bolster and deflector. Refer to **Knee Bolster Replacement** in Instrument Panel, Gages, and Console.