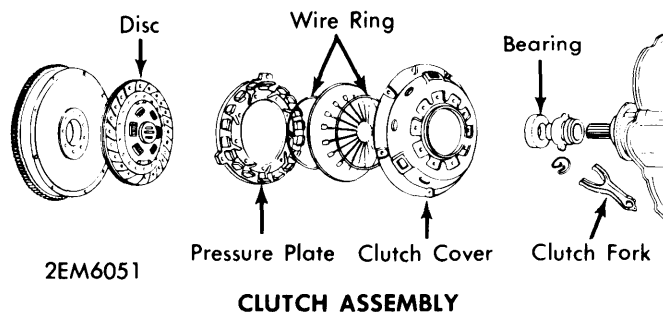


## 1972-73 CHEVROLET LUV PICKUP

LUV (1972-73)

### DESCRIPTION

LUV clutch is hydraulically operated, single-plate, dry friction disc with diaphragm spring. Clutch major components are: Pressure plate assembly, diaphragm spring, wire ring, disc, clutch release bearing, and clutch housing. Hydraulic system incorporates a fire-wall-mounted master cylinder and a clutch housing-mounted slave cylinder.



### REMOVAL & INSTALLATION

#### CLUTCH

- 1) Disconnect battery ground cable and accelerator linkage. Remove gearshift lever from top of transmission. Disconnect starter and place out of way.
- 2) Raise vehicle and disconnect exhaust system at manifold and transmission; secure to one side. Remove drive shaft and plug opening.
- 3) Disconnect clutch slave cylinder and push rod from clutch housing; wire or secure to frame. Remove flywheel inspection cover and transmission rear mount bolts. Raise engine as necessary and remove crossmember.
- 4) Lower engine-transmission assembly and suitably support engine. Disconnect TCS switch and back-up light. Extract engine-to-transmission bolts and slide transmission rearward until input shaft clears clutch assembly. Disconnect pressure plate assembly-to-flywheel mounting bolts and remove from vehicle. To install, reverse removal procedure.

#### CLUTCH MASTER CYLINDER

Disconnect clutch pedal arm from push rod and clutch hydraulic line from master cylinder. Remove nuts mounting master cylinder and remove cylinder, with push rod, toward engine compartment. To install, reverse removal procedure.

#### CLUTCH SLAVE CYLINDER

Remove slave cylinder mounting bolts and push rod from shift fork. Disconnect flexible hose from slave cylinder. To install, reverse removal procedure.

#### CLUTCH RELEASE BEARING

- 1) Remove shift fork boot from clutch housing. Disconnect shift fork spring clip from ball stud and remove release bearing. Shift fork ball stud can now be removed from transmission front cover.

- 2) Spin clutch release bearing and determine if excessive noise or extreme loss of lubrication exists. If either condition is observed, replace bearing. Inspect clutch fork ball socket and fingers for wear. Check ball retaining spring for damage. Replace components as necessary.

- 3) Install fork ball stud in front cover and tighten to 70 ft. lbs. (9.7 mkg). Apply suitable lubricant to contact surfaces of fork, bearing, and ball seat. Position shift fork and release bearing and connect shift fork spring clip to ball stud. Install fork boot.

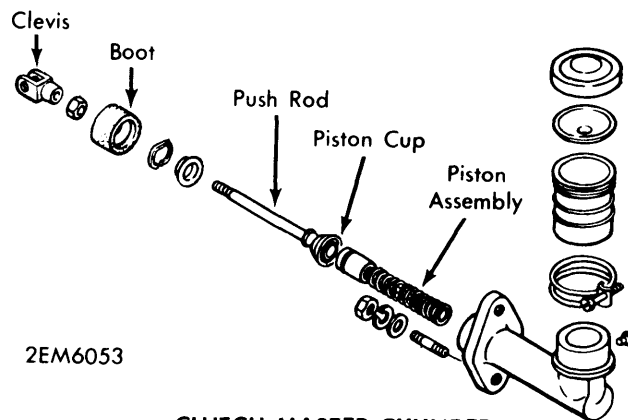
#### PILOT BEARING

Check pilot bearing for seizing, sticking, abnormal noise or wear. If any condition exists, replace bearing.

### OVERHAUL

#### CLUTCH MASTER CYLINDER

- 1) Drain fluid from reservoir. Remove boot and circlip and remove push rod. Extract stopper, piston, cup, and return spring.



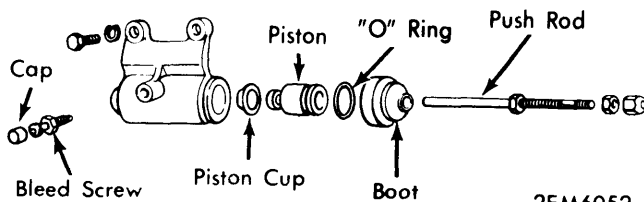
#### CLUTCH MASTER CYLINDER

- 2) Clean all disassembled parts in brake fluid before inspection. Check master cylinder bore and piston for score marks or corrosion. Cylinder-to-bore clearance should be .003-.006" (.076-.152 mm). Visually inspect remaining parts for damage and replace as necessary. **NOTE** — Replace rubber components at each overhaul.

- 3) To reassemble, reverse disassembly procedure, noting the following: Lubricate components with brake fluid before reassembling. Install cup seal carefully to prevent scratching lipped portions. Bleed system and adjust pedal height. See *Hydraulic System Bleeding and Clutch Adjustment*.

#### CLUTCH SLAVE CYLINDER

- 1) Remove push rod and boot. Force piston from bore by blowing compressed air into slave cylinder hose connection.



#### CLUTCH SLAVE CYLINDER

## 1972-73 CHEVROLET LUV PICKUP (Cont.)

2) Clean disassembled parts in brake fluid before inspection. Check and replace slave cylinder or piston if score marks are noticeable. Piston-to-bore clearance must not exceed .003-.005" (.076-.127 mm); replace parts as necessary. **NOTE** — Replace rubber components at each overhaul.

3) To assemble, reverse disassembly procedure, noting the following: Lubricate components with brake fluid before reassembling. Install cup seal carefully to prevent scratching lipped portions. Bleed system and adjust clutch pedal height. See *Hydraulic System Bleeding and Clutch Adjustment*.

**ADJUSTMENT****CLUTCH ADJUSTMENT**

Remove clutch shift fork return spring and move shift fork rearward. Loosen adjusting lock nut and rotate until push rod contacts shift fork. Back off push rod 1 3/4 turns and tighten lock nut.

**PEDAL ADJUSTMENT**

1) Disconnect clutch pedal return spring and disconnect clutch pedal arm from master cylinder push rod. Loosen clutch lock nut switch at pedal bracket and adjust height of clutch pedal until flush with brake pedal. Tighten lock nut.

2) Adjust push rod end play by rotating push rod clevis until  $\frac{25}{32}$ " (20 mm) clutch pedal free play is obtained. Connect push rod clevis to pedal arm and tighten through bolt to 25 ft. lbs. (3.5 mkg). Install return spring.

**HYDRAULIC SYSTEM BLEEDING**

**NOTE** — Bleeding procedure for master cylinder and slave cylinder is same; however, procedure is performed separately.

Remove rubber plug cover from bleeder and attach suitable hose. Submerge hose into a half-full can of brake fluid. Open bleed valve and lightly pump clutch pedal until all air bubbles stop. Close bleeder and refill master cylinder.

**NOTE** — Do not allow master cylinder to empty during bleeding process.

**TIGHTENING SPECIFICATIONS**

| Application                    | Ft. Lbs. (mkg) |
|--------------------------------|----------------|
| Rear Transmission Mounts ..... | 27 (3.7)       |
| Transmission-to-Engine .....   | 27 (3.7)       |
| Fork Ball Stud.....            | 70 (9.7)       |