

VOLVO

DESCRIPTION

Clutch is single dry disc type using a diaphragm spring type pressure plate. GLE models use a hydraulically operated 9" (229 mm) clutch, while all other models use a cable controlled 8.5" (216 mm) clutch.

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

Removal

1) Disconnect battery ground cable and back-up light wiring harness connector. Working from under vehicle, disconnect gearshift lever from gearshift rod. On GLE, unbolt clutch slave cylinder from housing and disconnect from release arm. On all other models, unhook clutch fork spring and separate cable from housing.

2) Separate shift boot from carpet. Using a 4 mm Allen wrench, remove reverse gear detent fork. Remove lock ring with snap ring pliers and lift out gearshift lever. Remove front exhaust pipe bracket and position a support under engine.

3) Remove crossmember at rear of transmission. Index mark propeller shaft and disconnect from transmission. Disconnect speedometer cable from transmission. Lower rear end of engine and remove all except top right clutch housing bolts. Remove front starter bracket and free starter from clutch housing.

4) Install transmission jack and remove last clutch housing bolt. Pull transmission to rear and turn to clear propeller shaft tunnel. Lower transmission clear of vehicle. Loosen pressure plate bolts gradually in a diagonal pattern and remove clutch assembly.

Installation

To install transmission and clutch assembly, reverse removal procedure and note the following: Install clutch disc with long side of hub to rear using alignment tool (2484 or equivalent). Install pressure plate and tighten bolts gradually in a criss-cross pattern. Adjust clutch pedal play on all models except GLE.

NOTE: GLE pressure plates have raised fingers and use a 1.43" (37 mm) long release bearing. All other model pressure plate fingers are straight and require the use of a 1.68" (43 mm) long release bearing. Pressure plates and bearings must never be mixed.

CLUTCH CABLE

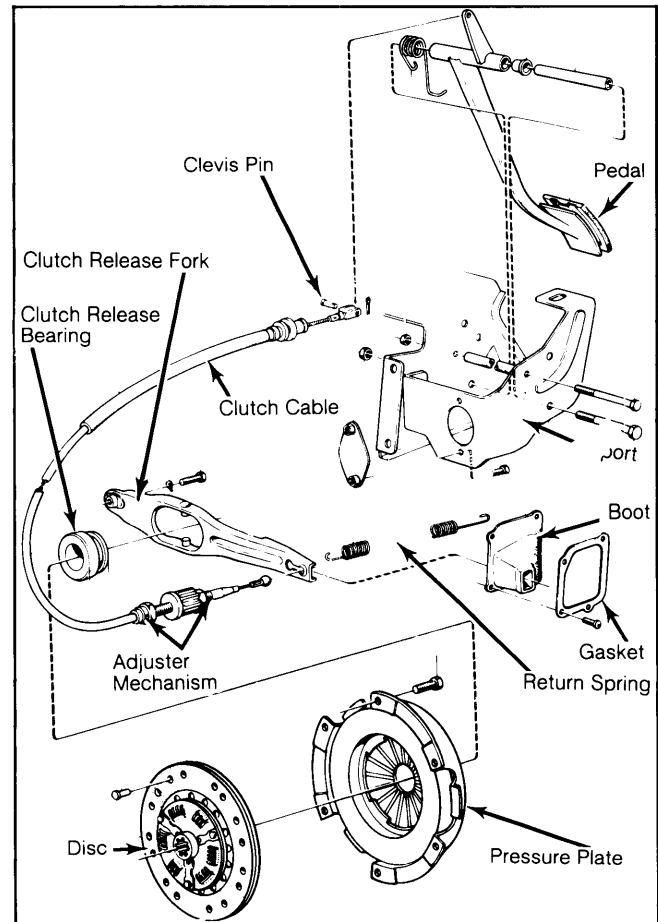
Removal

Raise and support front of vehicle. Remove underdash panel. Remove clutch return spring. Disconnect clutch cable at clutch fork. Pull out cable. Remove clevis pin at cable upper end. Pull cable out of rubber grommet in firewall.

Installation

Insert new cable into rubber grommet in firewall. Feed it through cable guide and attach at upper end with clevis pin. Position adjustment mechanism into clutch housing. Attach cable to clutch fork. Install return spring. Adjust clutch fork free play to approximately .12-.20" (3-5 mm).

Fig. 1: Volvo Mechanical Linkage Clutch System



HYDRAULIC CLUTCH ACTUATION

Manufacturer does not provide maintenance instructions for hydraulically operated clutch linkage. There should be no free play in this type linkage.

PILOT BEARING

Remove retaining clip and remove bearing using puller (SVO 4090). Pack bearing with heat resistant grease and install into crankshaft using a driver. Install retaining clip.

ADJUSTMENT

CLUTCH FREE PLAY

All Models Except GLE

Using adjustment mechanism attached to clutch housing, set free play. Adjustment is correct when approximately .12-.20" (3-5 mm) clutch fork free play is obtained.