

## VOLVO

140 Series  
164

## DESCRIPTION

Clutch is diaphragm spring type. Clutch is available in two different versions, both of which consist of the following components: Pressure plate, diaphragm spring, sheet metal casing, clutch disc, and clutch release bearing. Clutch actuation is mechanical, using a cable connecting clutch pedal to clutch release fork.

## REMOVAL &amp; INSTALLATION

## CLUTCH ASSEMBLY

- Removal** — 1) Suitably support engine by hoisting or by placing a jack beneath oil pan. Remove console (if equipped) and gearshift lever. Disconnect battery ground cable. On 164 models, remove radiator mounting bolts.
- 2) Raise vehicle and support with safety stands. Drain transmission fluid, and remove transmission support crossmember and rear engine mounting. Disconnect speedometer cable and electrical leads from transmission.
- 3) Disconnect exhaust pipe support bracket and drive shaft from transmission. On 164 models, position a suitable transmission jack under transmission, remove clutch housing to engine attaching bolts, and withdraw transmission to rear to remove.
- 4) On 140 models, remove one lower transmission mounting bolt and its opposing upper mounting bolt, install guide pins. Remove remaining mounting bolts and separate transmission from clutch housing. Remove upper starter bolt, release bearing, clutch cable from fork, and cable sleeve from bracket. Remove clutch housing.
- 5) On all models, loosen bolts attaching pressure plate to flywheel alternately and evenly in a diagonal progression to release spring pressure, then remove bolts and clutch assembly.

**Installation** — Position clutch disc (with long end of hub facing rearward) against flywheel, and center using a suitable aligning tool. Install pressure plate, tightening attaching bolts alternately and evenly in a diagonal progression. To complete installation, reverse removal procedure and adjust clutch free play.

## CLUTCH CABLE

**Removal** — Unhook return spring from release fork. Loosen rear nut (and front nut if required) and remove cable from release fork. Remove nut and cable sleeve from clutch housing. Remove panel under dash (if required) and disconnect clutch cable from pedal. Unscrew nut for cable sleeve and remove cable.

**Installation** — To install, reverse removal procedure and adjust clutch free play.

## CLUTCH RELEASE ASSEMBLY

**Removal** — With transmission and clutch housing removed, remove bolt retaining clutch fork to shaft. Remove release bearing and slide shaft out of clutch housing. If required, press out bushings using a drift.

**Installation** — Press new bushings into housing using a suitable driver. Coat all bearing contact surfaces with a thin layer of grease, and install into position on fork. Hold release fork in position and install release shaft. Install lock bolt.

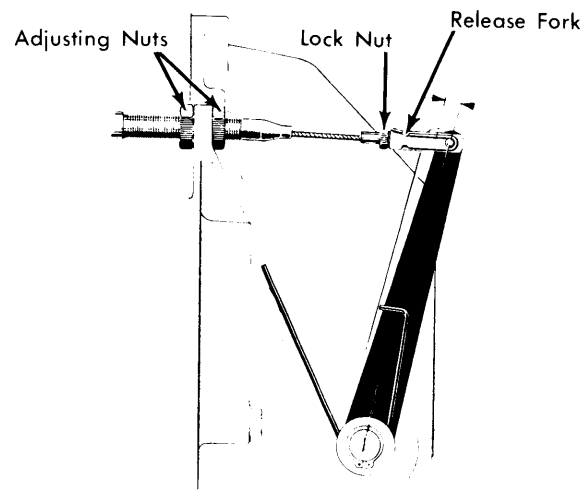
## PILOT BEARING

Remove retaining clip, and remove bearing using a suitable puller (SVO 4090). Pack bearing with heat resistant grease and install into crankshaft using a suitable driver (1426). Install retaining clip.

## ADJUSTMENT

## CLUTCH FREE PLAY

Clutch free play, measured at release lever, is adjusted by screwing fork on cable in or out until desired play is obtained. If adjustment is insufficient, cable sleeve may be adjusted at clutch housing by loosening or tightening adjusting nuts at cable bracket.



2EM6062

## CLUTCH RELEASE LEVER PLAY

Application	Clutch Free Play	Free Play
140 Series .....		.12" (3 mm)
164 .....		.16-.20" (4-5 mm)