

# Clutches

## DANA, BORG & BECK

American Motors  
Chrysler Corp.  
Jeep

NOTE — Clutch manufacturer does not recommend overhaul of these clutches.

### DESCRIPTION

**Borg & Beck** — Single plate, dry disc type. Release levers, mounted on bolts, piloted in pressure plate and retained in clutch cover, actuate clutch struts which provide "knife-edge" action. Semi-centrifugal type clutches have roller assemblies in grooves in pressure plate directly under clutch cover. Centrifugal action on these rollers increases pressure plate load as engine speed increases.

**Dana** — Single plate, dry disc type. A steel cover assembly bolted to flywheel contains clutch driven plate, pressure plate, release levers and springs. An indirect spring pressure type clutch, applies spring pressure to release levers which pivot and apply pressure to pressure plate.

### CLUTCH PEDAL ADJUSTMENT

#### AMERICAN MOTORS

Adjust pedal freeplay by changing the length of the throwout lever-to-inner release idler lever assembly link. Lengthen link to reduce freeplay.

Application	Free Play
All Models 9 1/4", 10" & 11" .....	7/8-1 1/8"

#### CHRYSLER CORP.

Adjust self-locking nut on clutch fork rod to provide 5/32" free movement at fork-to-pushrod pin. This will provide correct 1" pedal freeplay.

#### JEEP

Adjust outer support bracket to provide 1/8" endplay. Lift pedal up against stop and adjust lower ball pivot assembly onto or off rod as required to position bellcrank inner lever parallel to front face of bell housing. Adjust clutch fork release rod to obtain specified pedal freeplay.

Application	Freeplay
CJ/DJ & Commando 10 1/2" .....	1/2-3/4"
Wagoneer 10 1/2" & 11".....	3/8-5/8"

### REMOVAL & INSTALLATION

#### CLUTCH

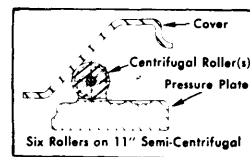
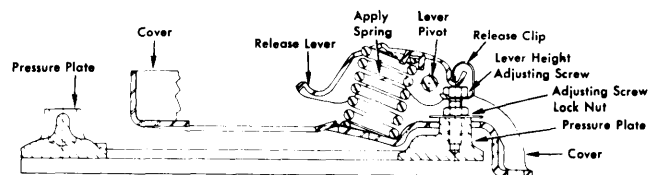
**American Motors & Jeep** — Remove starter, transmission, throw-out lever and bearing, and clutch housing. Mark flywheel and clutch cover for ease in reinstallation. When removing clutch cover, loosen attaching bolts evenly and in rotation to prevent warping cover. For installation, reverse removal procedure.

**Chrysler Corp.** — Remove transmission, clutch housing pan, release bearing, and linkage. Mark flywheel and clutch cover, for ease in reinstallation. Loosen clutch cover attaching bolts evenly and in rotation to prevent warping cover. For installation, reverse removal procedures.

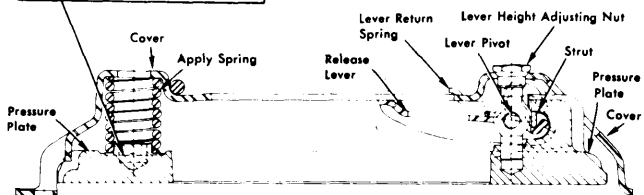
#### PILOT BUSHING

**American Motors & Jeep** — Fill crankshaft cavity and pilot bushing bore with an all purpose lubricant. Insert clutch aligning tool, straight into bushing, and tap with brass hammer. Hydraulic pressure will force bushing out of crankshaft. For installation, use suitable driver and install bushing straight into crankshaft until it seats. Lubricate bushing and install lubrication wick.

**Chrysler Corp.** — Using suitable puller (SP-3631) remove bushing. Before installing new bushing, soak it in oil. For installation, use suitable driver; then place small amount of grease in crankshaft cavity, forward of bushing.



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BORG & BECK