

Clutches

1965-74 CHRYSLER CORP.

DESCRIPTION

Clutches used in all Dodge and Plymouth models are single, dry type, of both Borg & Beck and Auburn design. Auburn design clutches can be distinguished from Borg & Beck design by the shape of the clutch cover. Auburn clutches incorporate triangular shaped covers, while Borg & Beck clutches incorporate an almost round cover. Both hydraulic and mechanical clutch linkage is used on Dodge. Plymouth uses only mechanical linkage.

REMOVAL & INSTALLATION

CLUTCH

Removal & Installation — Raise and support vehicle under frame, and remove transmission. See *Chrysler Corp. Manual Transmission Removal in this Section*. Remove flywheel underpan from clutch housing (if equipped). Disconnect clutch linkage at clutch fork, and remove clutch fork, clutch release bearing, and bearing sleeve from vehicle. Mark clutch cover assembly and flywheel for reassembly reference, and remove clutch cover-to-flywheel bolts. Remove clutch cover assembly and clutch disc from vehicle. To install, clean flywheel surface and clutch assembly, and reverse removal procedure. Tighten all bolts evenly and alternately.

CLUTCH MASTER CYLINDER

Removal & Installation — Remove clutch pedal return spring, and disconnect clutch master cylinder push rod at clutch pedal. Disconnect master cylinder-to-slave cylinder hydraulic line at master cylinder, and remove master cylinder attaching bolts. Remove master cylinder from vehicle, remove cover, and

drain fluid from cylinder. To install, reverse removal procedure and bleed system. See *Hydraulic System Bleeding*.

CLUTCH SLAVE CYLINDER

Removal & Installation — Clean outside of cylinder thoroughly and disconnect hydraulic line at slave cylinder. Remove bolts attaching slave cylinder to right side of clutch housing, and remove cylinder from vehicle. To install, reverse removal procedure and bleed system. See *Hydraulic System Bleeding*.

PILOT BEARING (BUSHING)

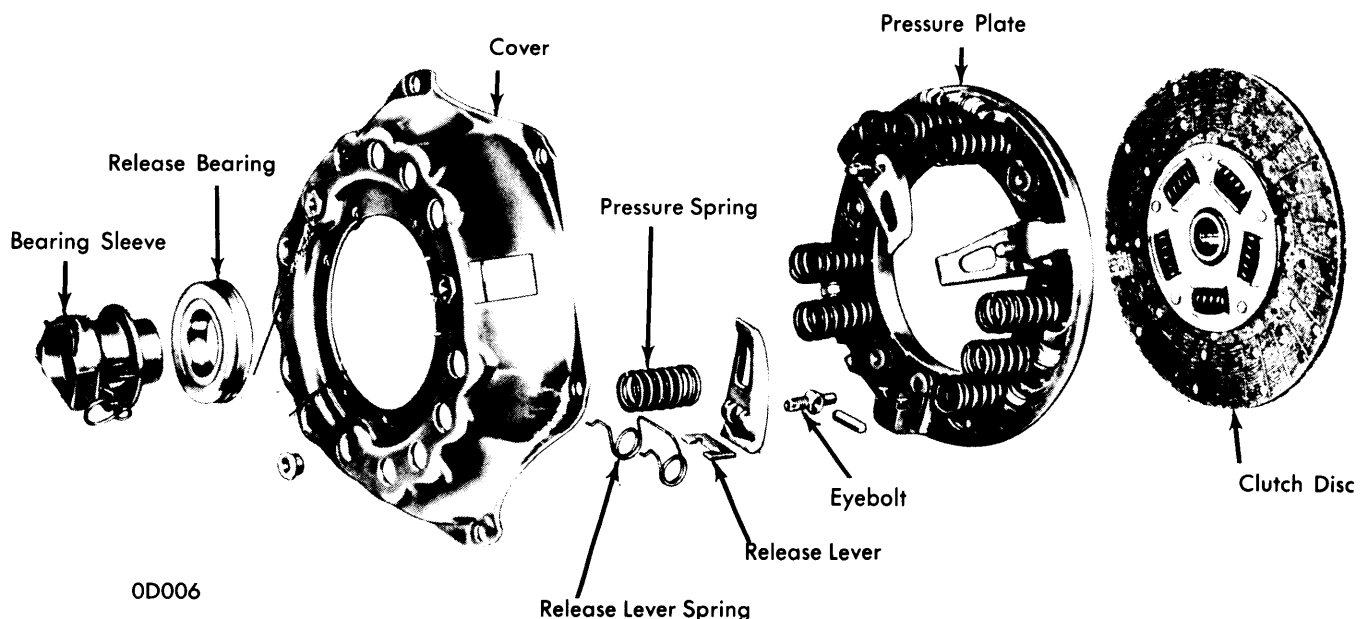
Removal — Thread suitable tapered pilot (C-3185) into bearing, and install puller screw into pilot. Turn puller screw until bearing is removed from flywheel.

Installation — Using a soft-faced hammer, drive bearing into flywheel until edge of bearing is flush with inner surface of flywheel.

OVERHAUL

CLUTCH MASTER CYLINDER

Disassembly & Reassembly — With master cylinder removed from vehicle, remove retainer collar, dust boot, and piston stop from end of cylinder. Remove piston and spring from cylinder bore, and inspect cylinder for damage. Light scratches may be removed with crocus cloth. Heavier scratches

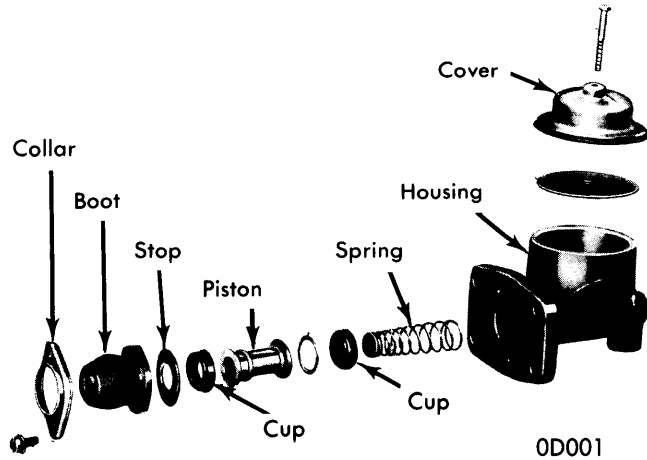


BORG & BECK TYPE CLUTCH ASSEMBLY

1965-74 CHRYSLER CORP. (Cont.)

may be removed by honing, providing diameter of cylinder bore is not increased more than .002". To reassemble cylinder, reverse disassembly procedure, using new rubber parts.

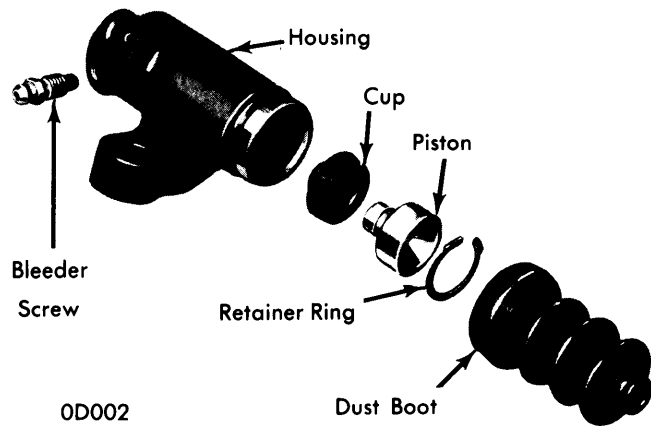
Mount clutch cover assembly on suitable fixture (C-585A), with clutch release levers over feeler gauges built into fixture. Place proper spacer over center screw of fixture, and install compression plate over spacer. Install aligning washer and compression nut onto screw. Tighten compression nut until compression plate just contacts spacers. Adjust release lever eye bolt nuts until a slight drag is felt when feeler gauges are removed.



CLUTCH MASTER CYLINDER ASSEMBLY

CLUTCH SLAVE CYLINDER

Disassembly & Reassembly — With slave cylinder removed from vehicle, remove dust boot and retainer ring. Remove piston and cup from cylinder bore. Inspect cylinder for signs of excessive wear and damage. Light scratches may be removed with crocus cloth. Heavier scratches may be removed by honing, providing bore diameter is not increased more than .002". To assemble cylinder, reverse disassembly procedure, using new rubber parts.



CLUTCH SLAVE CYLINDER ASSEMBLY

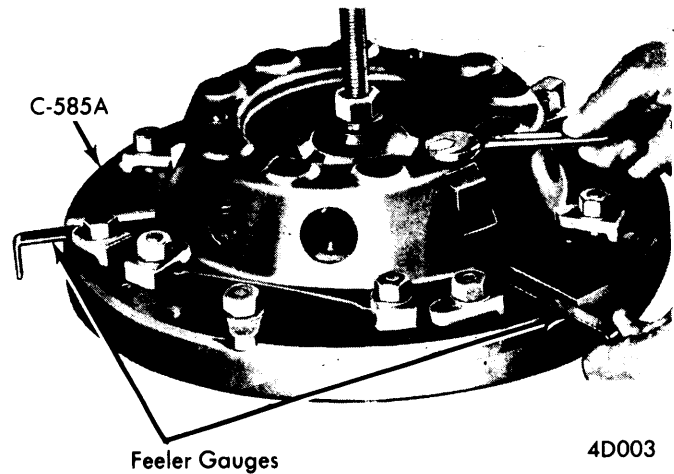
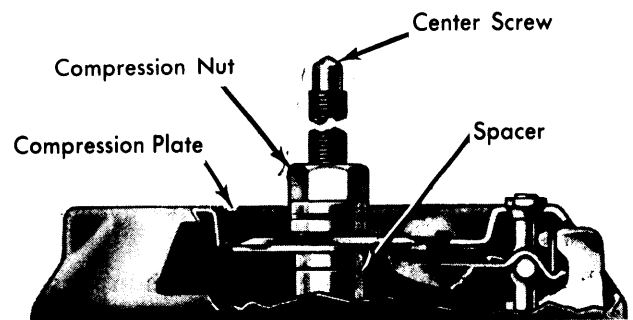
ADJUSTMENT

CLUTCH COVER ASSEMBLY

NOTE — Manufacturer recommends no adjustment of clutch cover on 1970-74 Dodge "B" Models, and on 1974 Plymouth "PB" Models.

Clutch Spacer Usage

Clutch Diameter	Spacer Number
13"	#20 & #43
11"	#19 & #21



ADJUSTING RELEASE LEVERS

CLUTCH LINKAGE

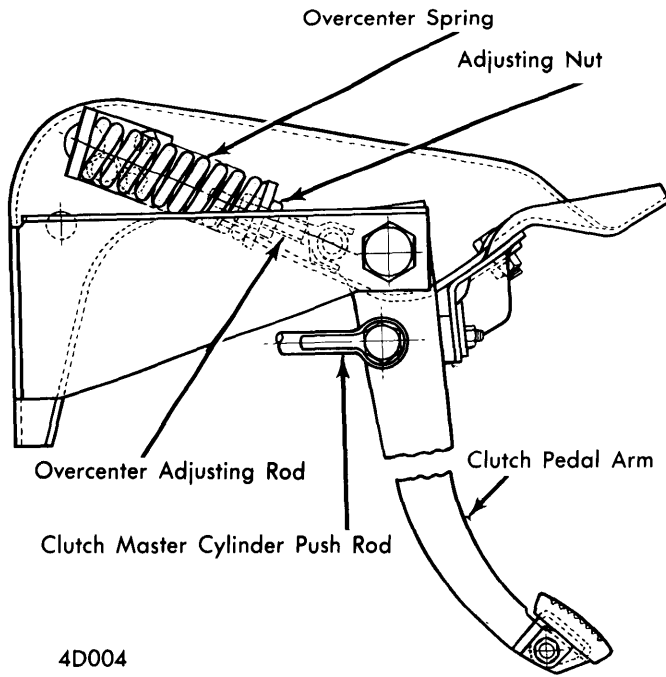
All Models (1965-74) — Adjust clutch fork push rod to obtain $\frac{3}{16}$ " ($\frac{3}{32}$ " on 1970-74 Dodge "B" Models, and 1974 Plymouth "PB" Models) free play at clutch fork push rod pivot pin.

"D", "P", & "W" Models (1965-69) — From inside the cab, adjust clutch master cylinder push rod to obtain $\frac{1}{8}$ " free play at clutch pedal.

"D", "P", & "W" Models (1965-69) — Adjust clutch overcenter spring by tightening spring adjusting nut until pedal will not fully return when clutch pedal is depressed. Back off adjusting nut two turns, and check that pedal is returning fully.

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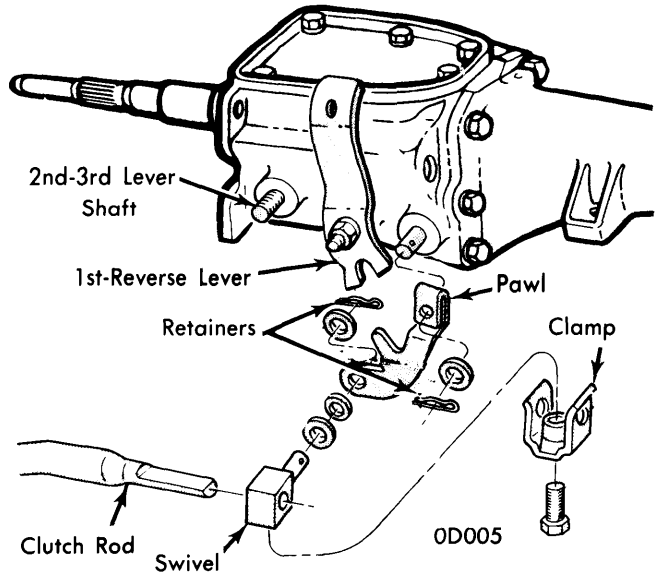
OVERCENTER SPRING ADJUSTMENT

Dodge "B" & Plymouth "PB" Models - 6-Cylinder (1970-74) - Disconnect clutch rod swivel from interlock pawl, and adjust clutch pedal free play. Place first-reverse lever on transmission in middle detent position, and rotate interlock pawl until tang on pawl is in slot in lever. Loosen swivel clamp bolt and move swivel on rod until end of swivel can be inserted in hole in pawl. Tighten swivel clamp bolt, and install retainer in swivel.

HYDRAULIC SYSTEM BLEEDING

Clean bleeder screw on slave cylinder, and attach bleeder hose to screw. Submerge free end of bleeder hose in jar 1/2 full

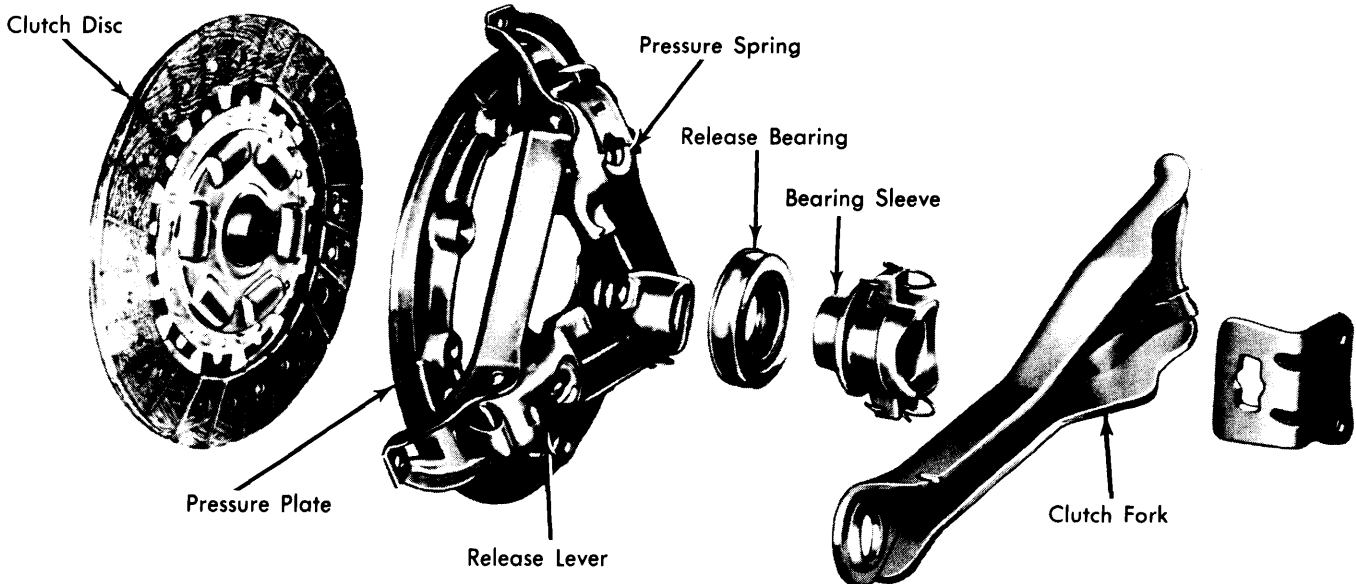
of clean brake fluid. Pressurize clutch master cylinder, and open and close bleeder screw at four second intervals, until no air appears in fluid running from bleeder hose.



CLUTCH INTERLOCK ADJUSTMENT

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Clutch Cover-to-Flywheel Bolts	30
Clutch Fork Pivot Stud.....	15
Overcenter Spring Anchor.....	8
Clutch Pedal Pivot Bolt.....	30
Transmission-to-Clutch Housing.....	50



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AUBURN TYPE CLUTCH ASSEMBLY