MGB & MGB/GT

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DESCRIPTION

Clutch is single dry disc type, using a diaphragm spring type pressure plate. Clutch actuation is hydraulic, using a firewall mounted master cylinder and a bell housing mounted slave cylinder. Release bearing is graphite type, and is mounted in a cup which fits into fork of clutch release lever.

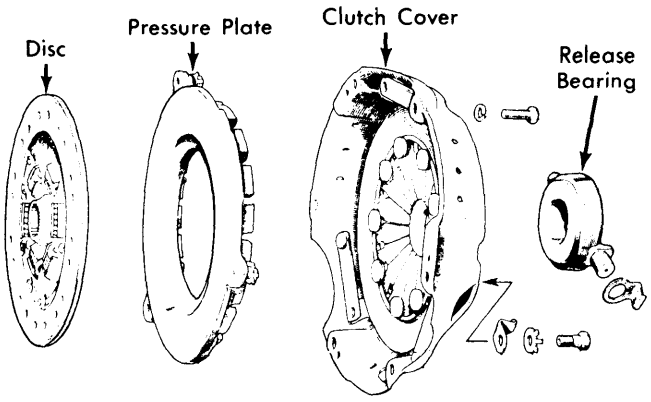

Fig. 1 Exploded View of Clutch Assembly

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

NOTE – Manufacturer recommends removing engine and transmission as an assembly to avoid any unnecessary damage to clutch assembly.

1) Remove engine. *See Engine Removal in ENGINE Section.*

2) Remove bolts securing clutch assembly to flywheel by extracting evenly. Pressure plate assembly can now be withdrawn off dowels and further disassembled.

Installation – To install, reverse removal procedure and note the following: Use suitable aligning tool to center clutch disc on flywheel. Tighten clutch attaching bolts one turn at a time in a diagonal sequence. Remove aligning tool only after bolts have been tightened.

CLUTCH MASTER CYLINDER

Removal – Remove bolts securing brake and clutch master clyinder cover. Drain fluid from reservoir. Disconnect clevis pin from push rod and disengage clutch pedal. Clean hydraulic line connections, disconnect, and plug openings. Withdraw mounting bolts and detach master cylinder.

Installation – To install, reverse removal procedure and bleed hydraulic system.

CLUTCH SLAVE CYLINDER

Drain slave cylinder. Disconnect hydraulic inlet line and remove two bolts mounting cylinder to clutch housing. Cylinder may be withdrawn with push rod attached to clutch fork or with it disconnected. To install, reverse removal procedure and bleed hydraulic system.

CLUTCH RELEASE BEARING

Release bearing is mounted in a cup which fits into clutch fork. Cup is held into position by spring retainers. To remove, rotate spring retainer 90° and lift out bearing.

OVERHAUL

CLUTCH MASTER CYLINDER

Disassembly – Detach rubber boot. Remove circlip and push rod assembly. Withdraw piston, piston washer, main cup, spring retainer, and spring. Remove secondary cup by carefully stretching it over end of piston.

Inspection – Clean all components in suitable brake fluid. Inspect rubber parts and replace any questionable pieces. Metal parts must be thoroughly dried. Ensure by-pass ports are unrestricted.

Reassembly – Prior to reassembly dip components in brake fluid. Stretch secondary cup over piston with lip of cup facing head of piston. Insert return spring, large diameter first, in bore and position spring seat on small diameter end. Assemble main cup, piston washer, piston, and push rod. When assembling cups carefully fit lip edge. Depress piston, position piston stop, and install circlip. Reposition rubber boot and fit dust shield.

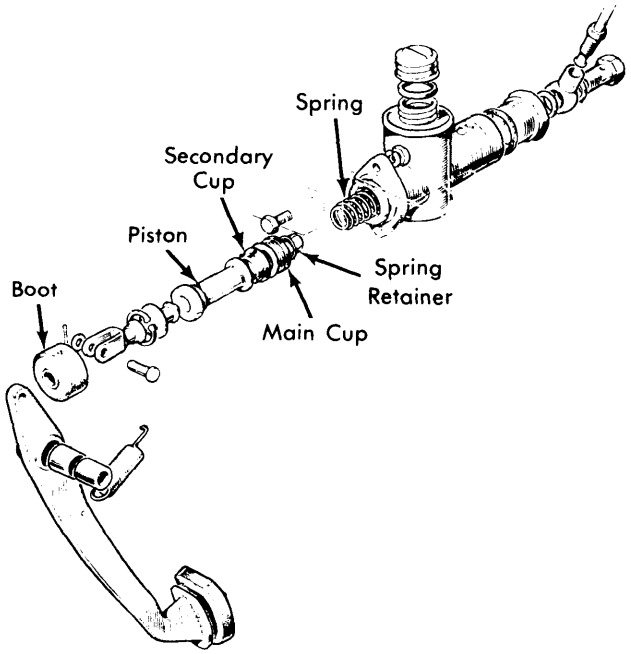

Fig. 2 Exploded View of Clutch Master Cylinder

CLUTCH SLAVE CYLINDER

Disassembly – Remove rubber boot and using compressed air, force out piston seal. Extract spring and cup filler. Inspect all components and replace any found damaged.

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Reassembly – To assemble, insert spring, filler, cup, and piston into cylinder. Depress piston, and refit rubber boot. Secure boot to push rod, and fit boot to cylinder.

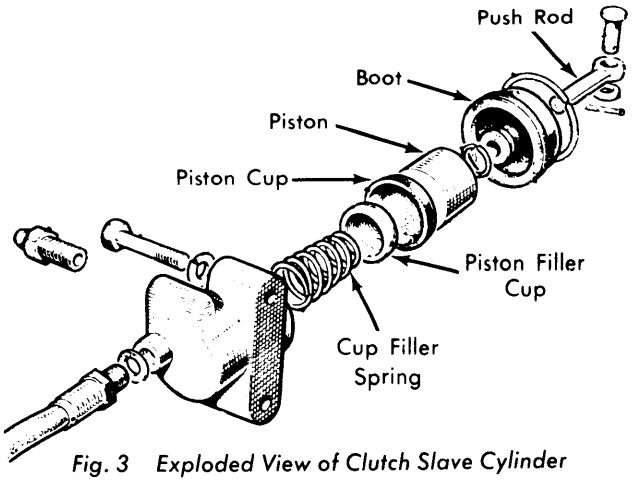

Fig. 3 Exploded View of Clutch Slave Cylinder

ADJUSTMENT

HYDRAULIC SYSTEM BLEEDING

Open bleed screw on slave cylinder three-quarters turn and attach tube. Submerge free end of tube in a half-full container of brake fluid. Using slow, full strokes, pump clutch pedal until all air bubbles stop. Close bleed screw on last down stroke.

NOTE – Do not let master cylinder run dry during this procedure.