MGB

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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.

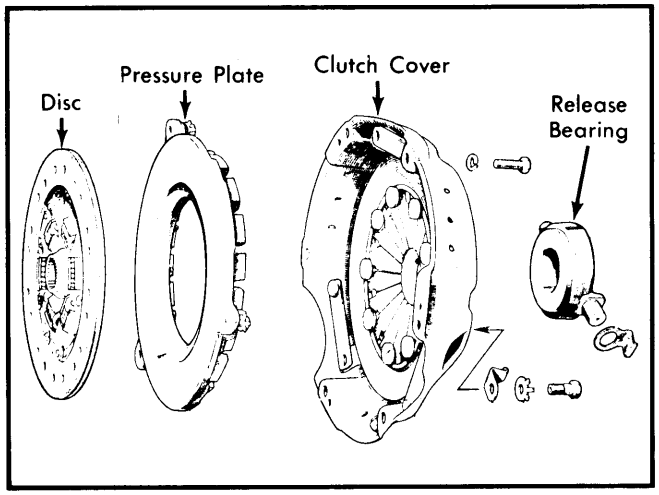

Fig. 1 Exploded View of Clutch Assembly

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

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 Pressure plate assembly can now be withdrawn off dowels and further disassembled.

NOTE – *Flywheel side of clutch disc is marked.*

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 – 1) Drain fluid from master cylinder through slave cylinder bleeder.

2) Remove left side (viewed from drives seat) lower facia panel.

3) Pull out rubber access plug in bulkhead. See *Fig.* 2.

4) Remove 8 screws holding cover plate and seal to pedal box.

5) Separate push rod from clutch pedal at clevis pin.

6) Disconnect hydraulic outlet line.

7) Remove mounting hardware holding master cylinder to pedal box.

NOTE – *Access to lower bolt is achieved inside car through hole in bulkhead.*

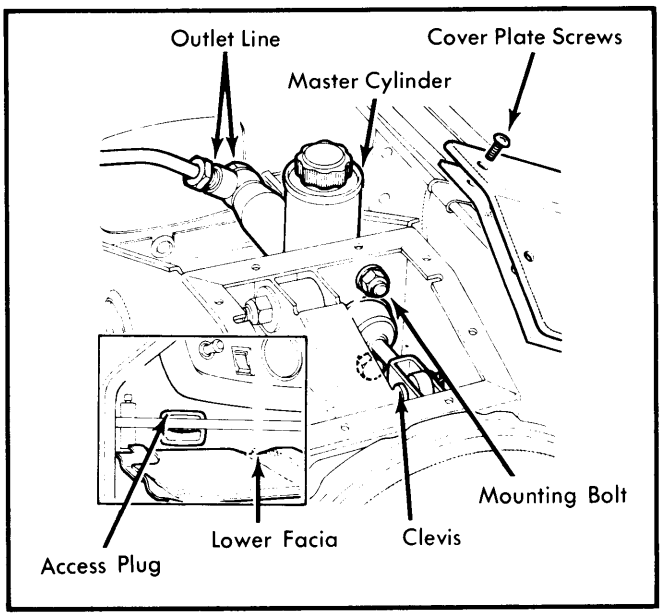

Fig. 2 Items to Take Off in Order to Free Master Cylinder for Removal

Installation – Reverse removal procedure and bleed hydraulic system.

CLUTCH SLAVE CYLINDER

Removal – 1) Remove both bolts and spring washers mounting slave cylinder.

2) Slide cylinder from push rod.

3) Separate cylinder from fluid hose. DO NOT lose copper sealing washer. Plug open end of hose.

Installation – Reverse removal procedure and bleed hydraulic system.

CLUTCH RELEASE BEARING

Removal – 1) Remove transmission.

2) Separate clutch assembly from transmission.

3) Release clips keeping release bearing to clutch fork by rotating clips forward.

4) Slide out release bearing and remove mounting clips.

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Installation – Reverse removal procedure and note: Make sure clips are installed with spring arm of clip facing AWAY from release bearing.

OVERHAUL

CLUTCH MASTER CYLINDER

Disassembly – 1) Make sure all fluid is drained.

2) Separate dust boot from body by sliding along push rod.

3) Free circlip retaining push rod.

4) Withdraw push rod along with circlip, dished washer and rubber boot.

5) Remove piston with secondary seal cup.

6) Remove piston washer, main cup, seal spring retainer and spring.

7) Remove secondary cup seal from piston by stretching over end of piston.

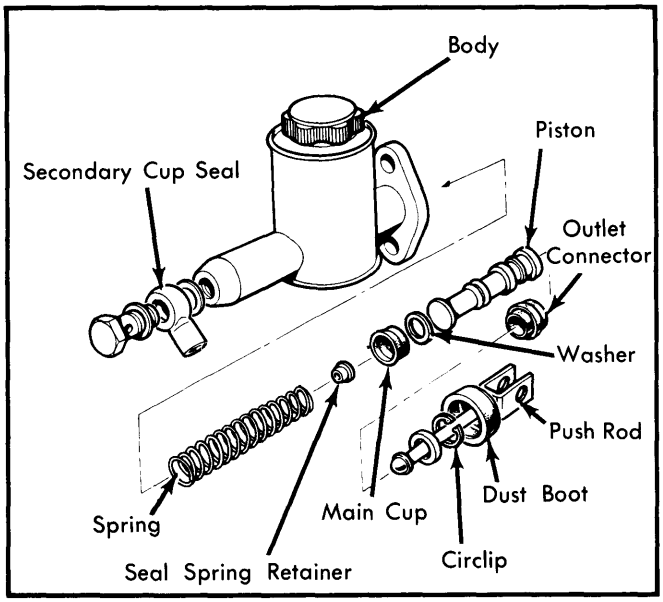

Fig. 3 Exploded View of MGB Clutch Master Cylinder Internal Components – Note That Seals are Normally Replaced During Each Overhaul

Inspection – 1) Wash master cylinder body in alcohol and dry.

2) Clean internal parts in brake fluid.

3) Check cylinder bore for score marks or deep ridges. New seal will hold if damage is slight.

Reassembly – 1) Lightly coat all internal components in brake fluid.

2) Slip new secondary cup seal over piston. Make sure seal lip faces toward rear of piston.

3) Fit spring retainer into small end of spring. Insert spring into body, large diameter first.

4) Install main cup seal, washer, piston, and push rod. Fit lip edge of cup seals first.

5) Put circlip on, then boot.

CLUTCH SLAVE CYLINDER

Disassembly – 1) Release retaining ring. Pull dust cover back.

2) Remove the small inside retaining ring from dust cover.

3) Force air pressure into fluid connector port. This will remove:

- Piston
- Cup
- Spring Retainer
- Spring

4) Remove bleeder screw.

Inspection – 1) Wash cylinder body in alcohol.

2) Clean internal parts with brake fluid.

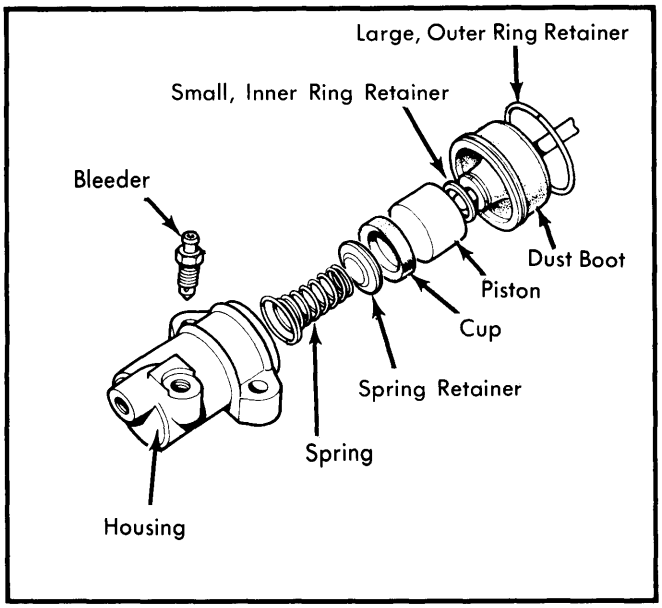

Fig. 4 Exploded View of MGB Clutch Slave Cylinder Showing Detail of Internal Components

MGB (Cont.)

3) Check bore for scoring or ridge marks, replace as necessary.

Reassembly – 1) Lightly coat all internal components with brake fluid.

2) Insert return spring with small end fitted to spring retainer.

3) Fit NEW cup seal, lip toward spring retainer.

4) Fit flat surface of piston to seal.

5) Fit small inner retaining ring, dust boot and large outer ring retainer.

6) Install bleed screw after making sure there is no restriction in orifice.

ADJUSTMENT

HYDRAULIC BLEEDING

1) Fill master cylinder.

2) Attach bleed tube to bleed valve on slave cylinder. Submerge free end into container part full with brake fluid.

3) Open bleed valve 3/4 turn.

4) Slowly depress clutch pedal to let air escape.

5) Close bleed valve.

6) Let pedal return unassisted.

7) Pause.

8) Repeat procedure never letting master cylinder run dry.