

97 Sonett III

DESCRIPTION

Clutch is dry, single disc type, using a Fichtel & Sachs coil spring type pressure plate. Clutch actuation is hydraulic, using a firewall mounted master cylinder and a clutch housing mounted slave cylinder.

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

Removal — Remove engine from vehicle. See *Engine Removal in ENGINE Section*. Alternately and evenly loosen bolts attaching pressure plate to flywheel, then remove bolts and clutch assembly.

Installation — Center clutch disc on flywheel using a suitable aligning tool (784064). Install pressure plate and attaching bolts, then tighten bolts alternately and evenly. Install engine.

CLUTCH MASTER CYLINDER

Removal — Remove floor mat, wallboard panel, and pedal plate from left side of vehicle. Remove clutch pedal push rod by removing cotter pin and clevis pin at pedal. Remove left front wheel. Disconnect hydraulic line from slave cylinder and filler hose connection to cover. Remove cylinder attaching bolts and remove cylinder.

Installation — To install, reverse removal procedure. Bleed hydraulic system.

CLUTCH SLAVE CYLINDER

Removal — Disconnect hydraulic hose and pump fluid into a container. Remove retaining screw(s) for cylinder. Separate cylinder from push rod and clutch housing.

Installation — Mount slave cylinder on clutch housing and pass push rod through hole in rubber dust cap. Install and tighten retaining screw(s). Connect hydraulic hose and bleed clutch hydraulic system.

CLUTCH RELEASE BEARING

Removal & Installation — With engine removed from vehicle, turn clutch lever forward and remove two spring clips retaining release bearing in fork. Slide release bearing off transmission shaft. To install, reverse removal procedure, making sure spring clips are correctly seated.

PILOT BUSHING

Removal — Fill pilot bushing with grease, then insert a suitable centering tool (839003) into bushing. Tap tool gently with a mallet to force out bushing. If necessary, gradually add more grease as bushing is being driven out.

Installation — Remove all grease from crankshaft and tool. Ensure that no grease adheres to friction surface of flywheel. Install new bushing using a suitable centering tool (839003).

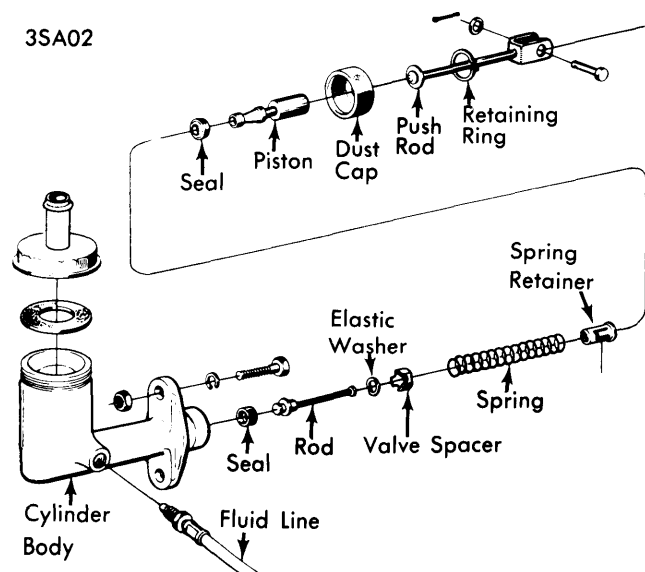
OVERHAUL

CLUTCH MASTER CYLINDER

Disassembly — 1) Ease rubber dust cap back and remove retaining ring, using long-nose pliers. Remove push rod and cupped washer. Remove complete piston assembly. Lift retainer spring leaf over tongued end of piston. Carefully remove piston seal and end seal.

2) Push down piston return spring, enabling valve spindle to slide through key shaped hole in retainer, releasing spring. Remove valve spacer, taking care not to damage elastic washer located under valve head. Remove seal from valve head. Examine cylinder bore for wear or scoring, replace if worn or damaged.

Reassembly — 1) Install valve seal with flat side properly located on valve head. Place elastic washer with dished side facing lower side of valve head, retaining it in position by means of valve spacer, the legs of which are turned toward valve seal.



MASTER CYLINDER ASSEMBLY

2) Replace piston return spring, centering it on washer. Insert spring retainer in spring and press down until valve spindle bottoms through key shaped hole. At same time, check that spindle is correctly located in middle of retainer, and that the spring is still centered on spacer.

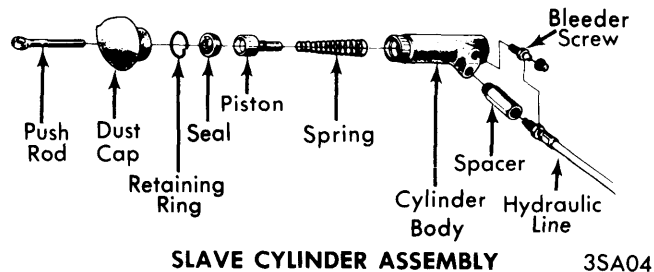
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3) Install seal on piston with flat side of seal toward seat of piston. Insert small end of piston in retainer until retainer spring leaf engages piston tongue, then fully press in retainer leaf.

4) Lubricate piston with Girling Rubber Grease No. 3 and install into cylinder bore (valve end first). *NOTE* — Use care easing piston seal lips into bore. Install push rod in cylinder with dished side of washer under spherical head. Install retaining ring and dust cap.

CLUTCH SLAVE CYLINDER

Disassembly — Ease dust cap back and remove retaining ring using long nosed pliers. Remove piston and seal, followed by spring. Check cylinder bore for wear or scoring, replace if worn or damaged.



Reassembly — Reverse disassembly procedure and note the following: Lubricate all parts with brake fluid when assembling. Pack rubber boot of cylinder with Girling Rubber Grease No. 3.

ADJUSTMENT

CLUTCH ADJUSTMENT

Clearance is checked by pressing slave cylinder push rod forward at clutch fork. A movement of .160" gives correct clutch clearance. Adjust clutch free movement with screw located on opposite side of clutch housing from slave cylinder. Turning screw to left increases free movement, turning to right decreases movement.

HYDRAULIC SYSTEM BLEEDING

1) Remove protective cap from bleeder screw on slave cylinder. Connect a ¼" hose to bleeder screw and dip free end of hose into a container partially full of brake fluid. Ensure master cylinder is full.

2) Open bleeder screw ½ turn and depress clutch pedal. Close bleeder screw just before bottom of pedal stroke. Repeat procedure until air bubbles no longer appear in discharged fluid. Refill master cylinder, close bleeder screw securely, and replace protective cap. *NOTE* — Do not allow master cylinder to run dry during bleeding process.