

CLUTCH

Article Text

1992 Mitsubishi Mirage

For Dan's Transmission Service 10 Jefferson Place Fort Walton Beach FL 32548

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Monday, April 01, 2002 08:56AM

ARTICLE BEGINNING

1992 Clutch

Eclipse, Expo/Expo LRV, Galant, Mirage, Precis, 3000GT

DESCRIPTION

All clutches are single disc type. Pressure plate assembly uses a diaphragm spring to engage pressure plate to clutch disc and flywheel. Most models use a hydraulic clutch system. Some 4-speed models use a cable clutch system.

ADJUSTMENTS & INSPECTION

CLUTCH BOOSTER (3000GT AWD)

Booster Operation Inspection

1) Start engine and idle for 2 minutes. Turn engine off. Depress clutch pedal several times. If depressed pedal height gradually rises with successive pedal strokes, go to step 3).

2) If clutch pedal depressed height remains the same on each stroke, inspect booster check valve and vacuum hose. If check valve and vacuum hose are okay, replace booster.

3) Depress clutch pedal repeatedly until depressed height no longer changes. Depress and hold clutch pedal. Start engine. If pedal moves down slightly, go to next step. If pedal does not move when engine is started, inspect booster check valve and vacuum hose. If check valve and vacuum hose are okay, replace booster.

4) With engine running, depress and hold clutch pedal. Turn engine off. If pedal height does not change, booster is okay. If pedal height rises, inspect booster check valve and vacuum hose. If check valve and vacuum hose are okay, replace booster.

Booster Check Valve & Vacuum Hose Inspection

Remove vacuum hose from manifold and air line. Ensure air flows in manifold direction only. Ensure vacuum hose has no cracks or splits. Replace if necessary.

NOTE: Check valve is press fit into vacuum hose. DO NOT remove check valve from vacuum hose. If check valve is faulty, replace check valve and vacuum hose as an assembly.

CLUTCH BOOSTER PUSH ROD (3000GT AWD)

Push Rod Clearance Adjustment

Check and adjust clearance between back of clutch master cylinder and clutch booster push rod. See Fig. 1. Dimension "A" should be .0083-.0181" (.210-.460 mm). Rotate push rod to adjust clearance. After adjusting push rod clearance, adjust pedal height and bleed hydraulic system.

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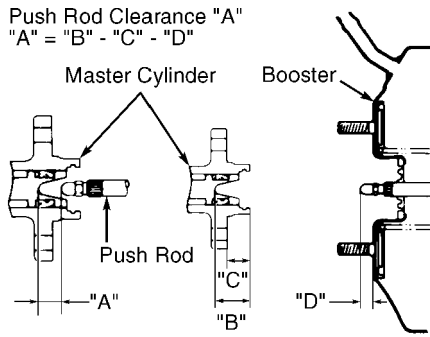


Fig. 1: Adjusting Clutch Booster Push Rod Clearance (3000GT AWD)
Courtesy of Mitsubishi Motor Sales of America.

CLUTCH PEDAL HEIGHT & FREE PLAY

NOTE: Clutch pedal height is not adjustable on cable-operated clutch system.

Pedal Adjustment (Cable Clutch)

1) Measure clutch pedal height. See CLUTCH PEDAL SPECIFICATIONS table. If clutch pedal height is not within specification, check pedal bracket for damage or deformation. Repair or replace as necessary.

2) Depress clutch pedal and check depressed height when clutch is disengaged. See CLUTCH PEDAL SPECIFICATIONS TABLE. If depressed height is not as specified, repair clutch assembly as necessary.

3) Check clutch pedal free play. See CLUTCH PEDAL SPECIFICATIONS TABLE. Rotate outer cable adjusting nut at floor board to adjust clutch pedal free play.

CLUTCH PEDAL SPECIFICATIONS TABLE

Application	In. (mm)
Mirage	
Free Play	
4-Speed (Cable Clutch)	.79-1.18 (20.0-30.0)
5-Speed (Hydraulic Clutch)	.24-.51 (6-13)
Pedal Height	
Pedal Depressed (1)	
4-Speed (Cable Clutch)	3.15 (80)
5-Speed (Hydraulic Clutch)	2.8 (70)
Pedal Released	6.6-6.7 (168-171)
Eclipse, Expo & Galant	
Free Play	.24-.51 (6-13)
Pedal Height	
Pedal Depressed (1)	2.2 (55)
Pedal Released	7.0-7.1 (176-181)
Precis	
Free Play	.24-.51 (6-13)
Pedal Height	
Pedal Depressed (1)	1.57 (40)

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Pedal Released 7.0 (178)

3000GT

Free Play24-.51 (6-13)

Pedal Height

Pedal Depressed (1) 2.2 (56)

Pedal Released 7.0-7.2 (178-183)

(1) - Specification given is minimum distance.

Pedal Adjustment (Hydraulic Clutch)

1) Loosen adjusting bolt or clutch pedal switch lock nut located at upper end of clutch pedal. Rotate adjusting bolt or switch until correct pedal released height is obtained. See CLUTCH PEDAL SPECIFICATIONS table.

2) Depress clutch pedal and check depressed height when clutch is disengaged. See CLUTCH PEDAL SPECIFICATIONS TABLE. If measurement is not as specified, readjust clutch pedal.

3) Check clutch pedal free play. See CLUTCH PEDAL SPECIFICATIONS TABLE. If clutch pedal free play and pedal height are okay and system fails to operate, defective system components exist.

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY (EXPO/EXPO LRV, MIRAGE)

Removal

1) Remove battery, battery tray and air cleaner assembly. Drain transaxle oil. On Mirage, disconnect tension rod located above transaxle mounting bracket.

2) On all models, disconnect control cables, speedometer cable and electrical connections at transaxle. Remove clutch release cylinder with line connected and wire aside.

3) Remove starter motor, with harness connected, and wire aside. Support transaxle. Remove upper transaxle-to-engine bolts and transaxle mounting bracket bolt. Loosen nuts and disconnect ball joint and tie rod ends from steering knuckles, using remover (MB991113). DO NOT remove ball joint and tie rod end nuts until after breaking free.

4) Disengage axle shafts and wire aside. See FWD AXLE SHAFTS article in DRIVE AXLES. DO NOT damage oil seal. Plug shaft openings in transaxle.

CAUTION: DO NOT pull on axle shafts during removal, or damage to shaft assembly will result.

5) Remove bellhousing cover. Support engine with Engine Support (MB991191). See Fig. 2. Remove remaining transaxle-to-engine bolts. Remove transaxle assembly. Insert a clutch pilot to prevent pressure plate and clutch disc from dropping during removal.

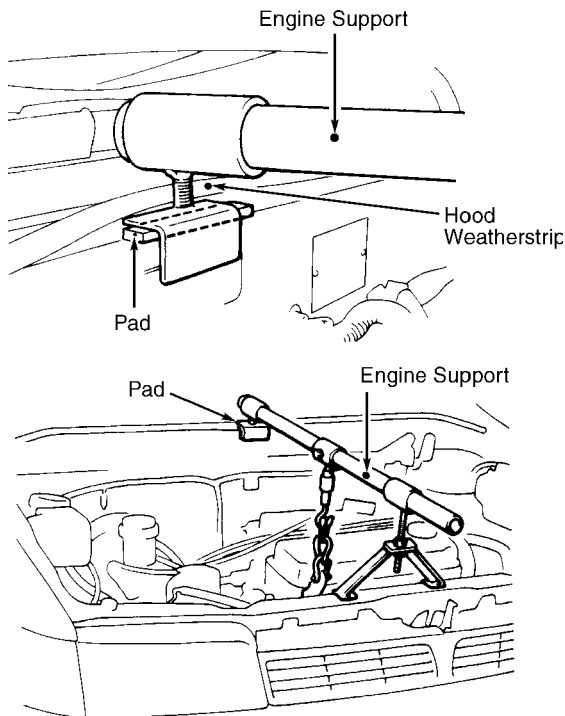
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Fig. 2: Supporting Engine For Clutch Removal
Courtesy of Chrysler Motors.

CAUTION: Ensure a pad is inserted between engine support and front deck. Ensure that the hood weatherstrip is not caught between front deck and pad.

6) Diagonally loosen pressure plate bolts to avoid warping pressure plate flange during removal. Remove pressure plate and clutch disc. See Fig. 3.

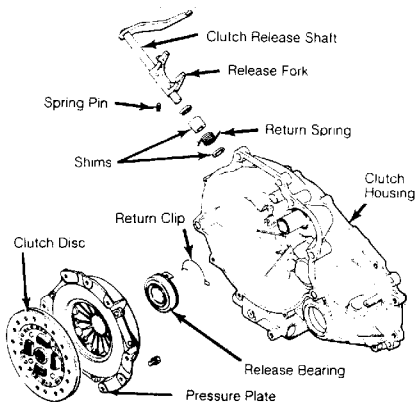


Fig. 3: Exploded View Of Clutch Assembly (Typical)
Courtesy of Chrysler Motors.

Inspection

1) Check release bearing and release fork for damage or wear.

DO NOT clean bearing assembly in solvent. Inspect hydraulic system components for fluid leakage and cylinder dust boot for cracks or deterioration.

2) Inspect pressure plate surface for wear, cracks, and/or

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discoloration. Check clutch disc rivets and replace assembly if loose. Measure diaphragm spring ends for wear and uneven height. Replace assembly if height difference between fingers exceeds .02" (.5 mm).

3) Check facing of clutch disc for loose rivets, uneven contact, deterioration, seizure or oil saturation. Measure distance from clutch disc surface to head of rivet. Replace clutch disc if distance is less than .012" (.30 mm). Replace worn or defective components as necessary.

CAUTION: Install clutch disc with manufacturer's stamp mark (located near hub of clutch disc) toward pressure plate.

Installation

1) Using clutch pilot, install pressure plate and clutch disc. Tighten bolts evenly in a crisscross pattern to specification. See TORQUE SPECIFICATIONS table at end of article.

2) Clean release bearing sliding surface. Apply multipurpose grease to release bearing sliding surface. Apply a light amount of grease to input shaft splines. DO NOT allow grease or dirt on clutch disc or pressure plate surfaces.

3) To install remaining components, reverse removal procedure. Refill all fluids to proper levels. Adjust all control cables, clutch pedal height and free play. See CLUTCH PEDAL HEIGHT & FREE PLAY under ADJUSTMENTS & INSPECTION.

CLUTCH ASSEMBLY (ECLIPSE & GALANT)

Removal

1) Drain transaxle. Remove battery and tray. Remove air cleaner and air intake hoses. Remove auto-cruise control actuator and bracket (if equipped). On models with electronic-controlled suspension, disconnect air lines and control cable. Remove air compressor assembly from bracket and wire aside.

2) On all models, disconnect speedometer cable, control cables and electrical connections at transaxle. Without disconnecting fluid line, remove clutch release cylinder with fluid line support bracket and wire aside. Disconnect back-up light harness and starter motor wiring.

3) Remove starter motor. Remove upper transaxle-to-engine bolts. Remove transaxle mount bracket. Raise and support vehicle. Remove front wheels and engine undercover. On models with anti-lock brakes, remove speed sensor.

4) On models with electronic-controlled suspension, remove front height sensor rod. On all models, disconnect tie rod ends, and disengage axle shafts and support aside. See FWD AXLE SHAFTS article.

5) On AWD models, remove transfer assembly to left and lower the front side. Remove transfer assembly from drive shaft and wire shaft aside. Disconnect front exhaust pipe connection and remove transfer case assembly. On all models, remove bellhousing cover. Support transaxle with jack. On AWD models, remove right support member and gusset.

6) On all models, remove remaining transaxle-to-engine bolts. Remove transaxle mount insulator bolt. Slide transaxle assembly to the right and lower unit from vehicle.

7) Insert a clutch pilot to prevent pressure plate and clutch disc from dropping. Diagonally loosen pressure plate bolts to avoid

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warping pressure plate flange during removal. Remove pressure plate and clutch disc. See Fig. 3.

Inspection

1) Check release bearing and release fork for damage or wear. DO NOT clean bearing assembly in solvent. Inspect hydraulic system components for fluid leakage. Inspect cylinder dust boot for cracks or deterioration.

2) Inspect pressure plate surface for wear, cracks, and/or discoloration. Check clutch disc rivets and replace assembly if loose. Measure diaphragm spring ends for wear and uneven height. Replace assembly if height difference between fingers exceeds .02" (.5 mm).

3) Check facing of clutch disc for loose rivets, uneven contact, deterioration, seizure or oil saturation. Measure distance from clutch disc surface to head of rivet. Replace clutch disc if distance is less than .012" (.30 mm). Replace worn or defective components as necessary.

CAUTION: Install clutch disc with manufacturer's stamp mark (located near hub of clutch disc) toward pressure plate.

Installation

1) Using clutch pilot, install pressure plate and clutch disc. Tighten bolts evenly in a crisscross pattern to specification. See TORQUE SPECIFICATIONS table at end of article.

2) Clean release bearing sliding surface. Apply multipurpose grease to release bearing sliding surface. Apply a light amount of grease to input shaft splines. DO NOT allow grease or dirt on clutch disc or pressure plate surfaces.

3) To install remaining components, reverse removal procedure. Refill all fluids to proper levels. Adjust all control cables, clutch pedal height and free play. See CLUTCH PEDAL HEIGHT & FREE PLAY under ADJUSTMENTS & INSPECTION.

CLUTCH ASSEMBLY (PRECIS)

Removal

1) Drain transaxle fluid. Remove clutch release cylinder. Remove air cleaner assembly. Disconnect select and shift cables. Disconnect speedometer cable and clutch cable. Disconnect back-up light harness and starter motor wiring. Remove starter motor.

2) Remove all upper transaxle-to-engine bolts and bracket bolt. Raise and support vehicle. Remove front wheels and engine undercovers. Disconnect tie rod ends and lower ball joints.

3) Disengage axle shafts and support aside. See FWD AXLE SHAFTS article. Remove bellhousing cover. Support transaxle with jack. Remove remaining transaxle-to-engine bolts. Remove transaxle mount insulator bolt.

4) Slide transaxle assembly to the right and lower unit from vehicle. Insert a clutch pilot to prevent pressure plate and clutch disc from dropping. Diagonally loosen pressure plate bolts to avoid warping pressure plate flange during removal. Remove pressure plate and clutch disc. See Fig. 3.

Inspection

1) Check release bearing and release fork for damage or wear.

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DO NOT clean bearing assembly in solvent. Inspect clutch cable for or signs of fraying. Check cable for rough movement.

2) Inspect pressure plate surface for wear, cracks, and/or discoloration. Check clutch disc rivets and replace assembly if loose. Measure diaphragm spring ends for wear and uneven height. Replace assembly if height difference between fingers exceeds .02" (.5 mm).

3) Check facing of clutch disc for loose rivets, uneven contact, deterioration, seizure or oil saturation. Measure distance from clutch disc surface to head of rivet. Replace clutch disc if measurement is less than .012" (.30 mm). Replace worn or defective components as necessary.

CAUTION: Install clutch disc with manufacturer's stamp mark (located near hub of clutch disc) toward pressure plate.

Installation

1) Using clutch pilot, install pressure plate and clutch disc. Tighten bolts evenly in a crisscross pattern to specification. See TORQUE SPECIFICATIONS table at end of article.

2) Clean release bearing sliding surface. Apply multipurpose grease to release bearing sliding surface. Apply a light amount of grease to input shaft splines. DO NOT allow grease or dirt on clutch disc or pressure plate surfaces.

3) To install remaining components, reverse removal procedure. Refill all fluids to proper level. Adjust all control cables, clutch pedal height and free play. See CLUTCH PEDAL HEIGHT & FREE PLAY under ADJUSTMENTS & INSPECTION.

CLUTCH ASSEMBLY (3000GT)

Removal

1) Remove both inner fender splash shields. On AWD models, remove air cleaner cover, air hoses and vacuum pipe. On all models, remove air cleaner, intake hose, battery, battery tray and washer tank. Disconnect transaxle control cables and speedometer cable.

2) Remove clutch tube bracket and disconnect clutch release cylinder (including clutch damper assembly on FWD models) and wire aside. Support transaxle assembly with jack and disconnect transaxle mount. Remove mount, bracket, plug and stoppers.

3) Remove transaxle assembly upper coupling bolts. Disconnect tie rod ends and lower arm ball joints. Remove right support member, starter cover (if equipped) and starter.

4) Remove left side bearing bracket mounting bolts and pry left drive shaft from transaxle. Wire left drive shaft and inner shaft assembly aside. Pry right drive shaft from transaxle and wire aside.

5) Remove front bank side and rear bank side transaxle stays. Support transaxle assembly with a transmission jack. Remove transaxle assembly lower coupling bolts and lower transaxle from vehicle.

6) Insert a clutch pilot to prevent pressure plate and clutch disc from falling. Loosen pressure plate bolts diagonally to avoid warping pressure plate flange. Remove pressure plate and clutch disc. See Fig. 3.

Inspection

1) Check release bearing and release fork for damage or wear. DO NOT clean bearing assembly in solvent. Inspect hydraulic system

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components for fluid leakage. Inspect cylinder dust boot for cracks or deterioration.

2) Inspect pressure plate surface for wear, cracks, and/or discoloration. Check clutch disc rivets and replace assembly if loose. Measure diaphragm spring ends for wear and uneven height. Replace assembly if height difference between fingers exceeds .02" (.5 mm).

3) Check facing of clutch disc for loose rivets, uneven contact, deterioration, seizure or oil saturation. Measure distance from clutch disc surface to head of rivet. Replace clutch disc if distance is less than .012" (.30 mm). Replace worn or defective components as necessary.

CAUTION: Install clutch disc with manufacturer's stamp mark (located near hub of clutch disc) toward pressure plate.

Installation

1) Using clutch pilot, install pressure plate and clutch disc. Tighten bolts evenly in a crisscross pattern to specification. See TORQUE SPECIFICATIONS table at end of article.

2) Clean release bearing sliding surface. Apply multipurpose grease to release bearing sliding surface. Apply a light amount of grease to input shaft splines. DO NOT allow grease or dirt on clutch disc or pressure plate surfaces.

3) To install remaining components, reverse removal procedure. Install mounting stoppers as shown in illustration. See Fig. 4.

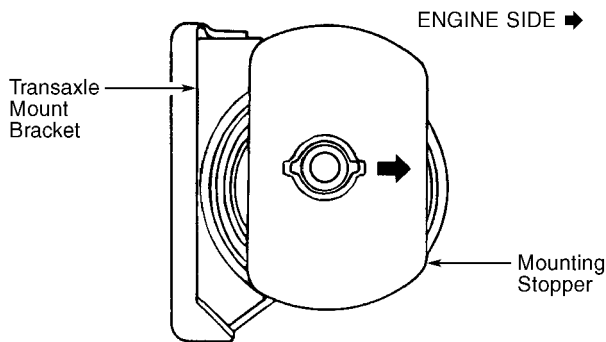


Fig. 4: Installing Transaxle Assembly Mounting Stopper (3000GT)
Courtesy of Mitsubishi Motor Sales of America.

4) Reverse removal procedure for remaining components. Refill all fluids to proper levels. Adjust all control cables, clutch pedal height and free play. See CLUTCH PEDAL HEIGHT & FREE PLAY under ADJUSTMENTS & INSPECTION.

CLUTCH BOOSTER (3000GT AWD)

CAUTION: Wait at least 30 seconds after disconnecting negative battery cable before removing air bag module mounting nuts. Supplemental Restraint System (SRS) retains enough voltage for a short period after power disruption to deploy air bag.

Removal

1) After setting steering wheel and front wheels to straight-ahead position, remove ignition key. Disconnect negative battery

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cable. Wait at least 30 seconds and then remove air bag module mounting nut from back of steering wheel. Pull air bag module forward.

2) When disconnecting clock spring connector from air bag module, press the air bag's lock toward the outer side to spread it open. Using a screwdriver, pry gently to remove the connector. See Fig. 5. Remove air bag module. Store air bag module, with pad cover face up, in a clean, dry place.

CAUTION: When disconnecting air bag module-clock spring connector, take care not to apply excessive force.

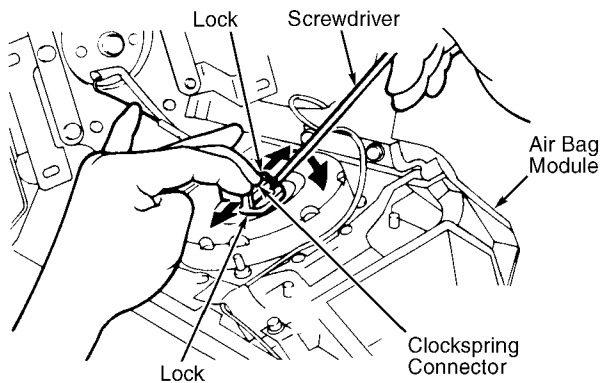


Fig. 5: Disconnecting Clockspring Connector (3000GT)
Courtesy of Mitsubishi Motor Sales of America.

3) Using puller, remove steering wheel. DO NOT hammer on steering wheel to remove it. Remove column covers and knee protector. Remove lap cooler duct and foot shower duct.

4) Remove column switch assembly, key interlock cable and slide lever. Remove steering column assembly. Remove brake master cylinder and brake booster.

5) Disconnect clutch master cylinder from clutch pedal support bracket. See Fig. 6. Remove all clevis pins and yoke. Remove clutch pedal shaft and clutch pedal. Remove bushing, spacer and lever assembly. Remove clutch booster support bracket and clutch booster.

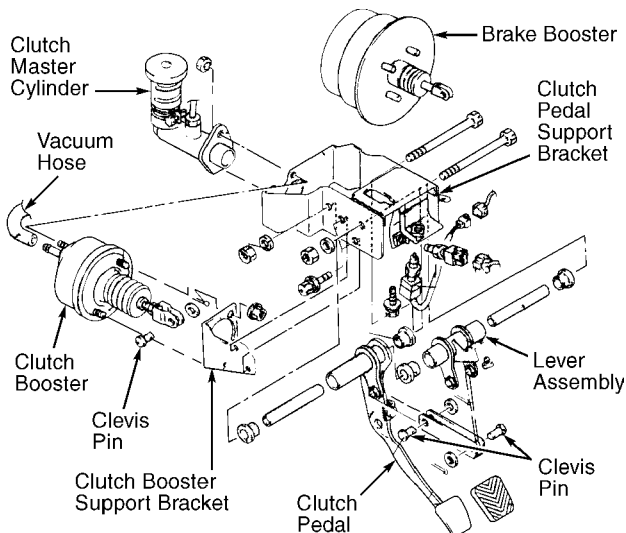


Fig. 6: Exploded View Of Clutch Pedal & Booster (3000GT AWD)
Courtesy of Mitsubishi Motor Sales of America.

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Installation

1) To install, reverse removal procedure. Before installing clutch booster, adjust clutch booster push rod. See CLUTCH BOOSTER PUSH ROD under ADJUSTMENTS & INSPECTION.

2) Before installing brake booster, adjust brake booster push rod in similar fashion as clutch booster push rod. See Fig. 1. Dimension "A" for brake booster push rod is .026-.033" (.66-.84 mm). Bleed brake system.

3) Reverse removal procedure for remaining components. Before installing steering wheel, line up NEUTRAL mark on clockspring with mating mark on outer housing. Reconnect negative battery cable after installation is complete. Adjust clutch pedal height and free play. See CLUTCH PEDAL HEIGHT & FREE PLAY under ADJUSTMENTS & INSPECTION.

4) Turn ignition on from passenger's seat. SRS warning light in instrument cluster should illuminate for approximately 7 seconds and then go out. If SRS warning light fails to come on, remains on, or flashes, a problem exists in the SRS. SRS should be serviced as soon as possible.

CLUTCH MASTER CYLINDER

Removal & Installation (Hydraulic Clutch)

1) Drain master cylinder. Disconnect external reservoir (if equipped). Remove cotter pin, washer and clevis pin. Disconnect push rod from clutch pedal. Remove hydraulic line at clutch master cylinder and plug.

2) Remove retaining nuts and clutch master cylinder. To install, reverse removal procedure. Apply grease to clevis pin before installation. Bleed clutch system.

CLUTCH RELEASE CYLINDER

Removal & Installation (Hydraulic Clutch)

1) Remove and plug hydraulic line at release cylinder. Remove clip and clevis pin attaching push rod to clutch release arm (if equipped). Remove cylinder-to-transaxle bolts and remove clutch release cylinder.

2) To install, reverse removal procedure. Apply grease to clevis pin or push rod-to-release shaft contact area. Bleed clutch system.

OVERHAUL

CLUTCH MASTER CYLINDER

Disassembly

Remove piston stop ring, damper and push rod assembly. Remove piston assembly. Note position of reservoir band for reassembly reference and remove reservoir. See Fig. 7.

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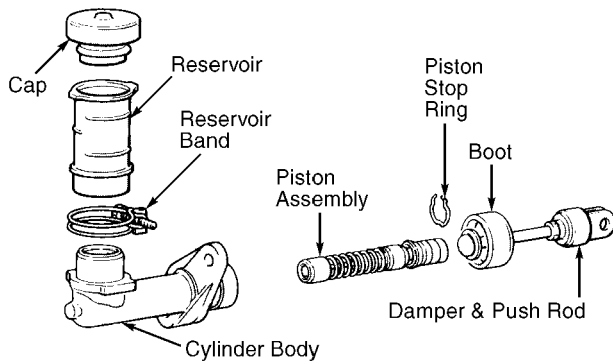


Fig. 7: Exploded View Of Clutch Master Cylinder (Typical)
Courtesy of Chrysler Motors.

Inspection & Reassembly

Inspect components for rust, scoring or damage. Replace damaged component(s). Apply DOT 3 brake fluid to components during reassembly. To reassemble, reverse disassembly procedure. Ensure piston moves freely in bore.

CLUTCH RELEASE CYLINDER

Disassembly

Remove valve plate and spring. See Fig. 8. Remove push rod and boot. Cover piston assembly opening with a rag. Slowly apply air pressure to hydraulic line opening to force piston from body.

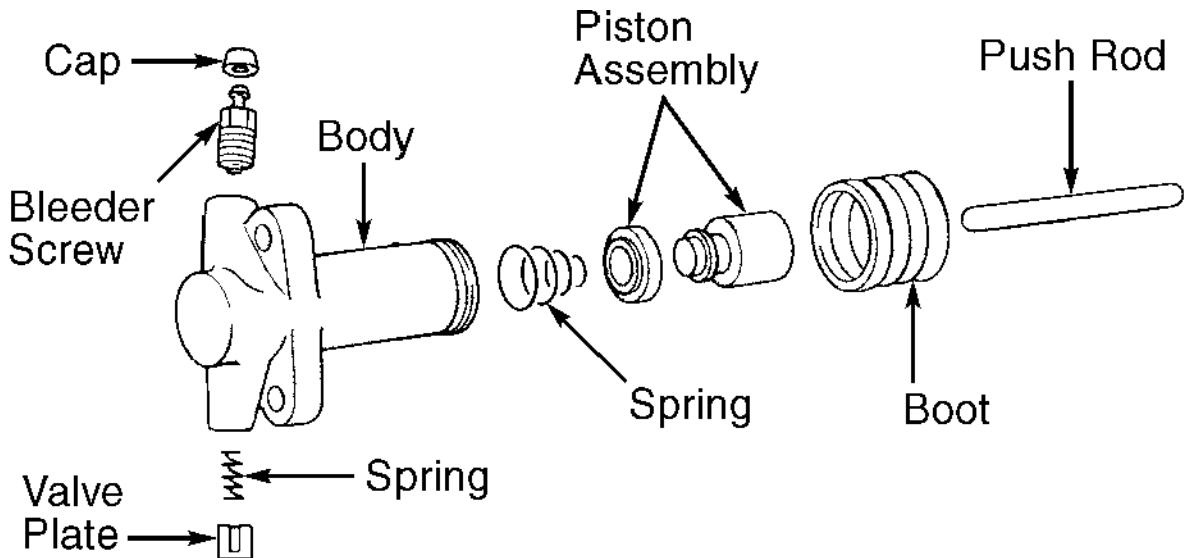


Fig. 8: Exploded View Of Clutch Release Cylinder (Typical)
Courtesy of Chrysler Motors.

Inspection & Reassembly

Inspect components for rust, scoring or damage. Replace damaged component(s). Apply DOT 3 brake fluid to components during reassembly. To reassemble, reverse disassembly procedure. Ensure piston moves freely in bore.

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TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Clutch Booster Mounting Nuts	
3000GT AWD	(1)
Flywheel-To-Crankshaft Bolt	
3000GT	55 (75)
All Others	94-101 (127-137)
Fulcrum Bolt	25-30 (34-41)
Pressure Plate-To-Flywheel Bolt	11-15 (15-20)
Transaxle-To-Engine Bolt	
Eclipse, Galant, Mirage	
8-mm Bolt	(1)
10-mm Bolt	22-25 (30-34)
12-mm Bolt	32-39 (43-53)
Precis & Expo	32-41 (43-56)
3000GT	
Upper Mounting Bolt	54 (73)
Lower Mounting Bolt	65 (88)
Transfer Case-To-Transaxle Bolt	
3000GT	64 (87)
All Others	40-43 (54-58)
Wheel Lug Nut	
Eclipse & 3000GT	89-103 (120-140)
All Others	65-80 (88-109)

(1) - Tighten to 84-108 INCH lbs. (9.5-12.2 N.m).

END OF ARTICLE