

GENERAL INFORMATION

A dry single-disc, diaphragm pull type clutch is used.
Hydraulic pressure is used for the clutch control.

Items	Specifications
Clutch operating method	Hydraulic type
Clutch disc type	Single dry disc type
Clutch disc facing diameter O.D.×I.D. mm	225×150
Clutch cover type	Diaphragm spring pull type
Clutch cover setting load N	6,300
Clutch release cylinder I.D. mm	20.5

SERVICE SPECIFICATIONS

Items	Standard value
Clutch pedal height mm	175–180
Clutch pedal clevis pin play mm	1–3
Clutch pedal free play mm	6–13
Distance between the clutch pedal and the firewall when the clutch is disengaged mm	45 or more

LUBRICANTS

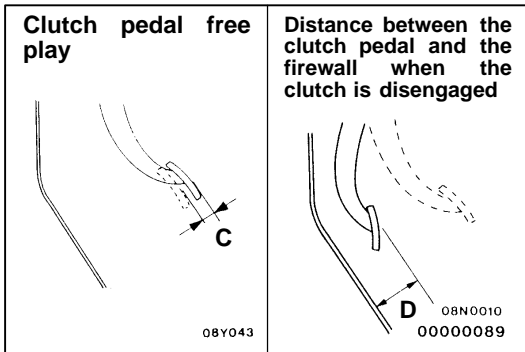
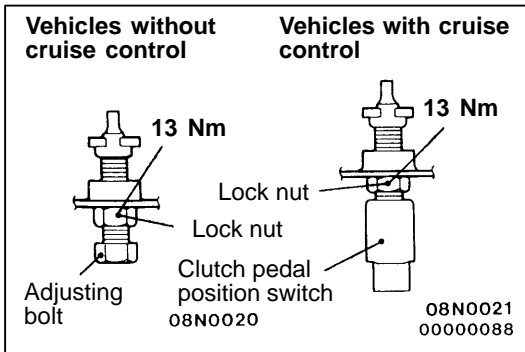
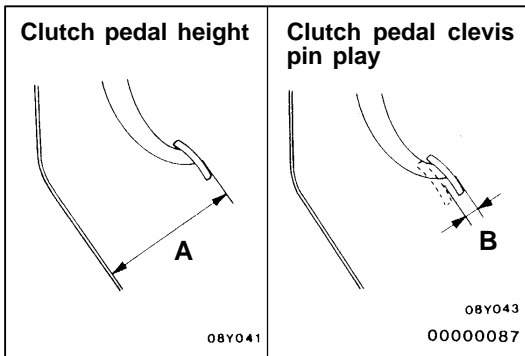
Items	Specified lubricants	Quantity
Clutch fluid	Brake fluid DOT4	As required
Push rod assembly	Rubber grease	As required
Boot		
Release cylinder push rod	MITSUBISHI genuine grease Part No. 0101011	As required

ON-VEHICLE SERVICE**CLUTCH PEDAL CHECK AND ADJUSTMENT**

1. Measure the clutch pedal height and the clutch pedal clevis pin play.

Standard value (A): 175–180 mm

Standard value (B): 1–3 mm



2. If the height of the clutch pedal is outside the standard value, loosen the lock nut and adjust the pedal height to the standard value using the adjusting bolt (Vehicles without cruise control) or clutch pedal position switch (Vehicles with cruise control).
3. If the clutch pedal play is outside the standard value, adjust with the push rod.

Caution

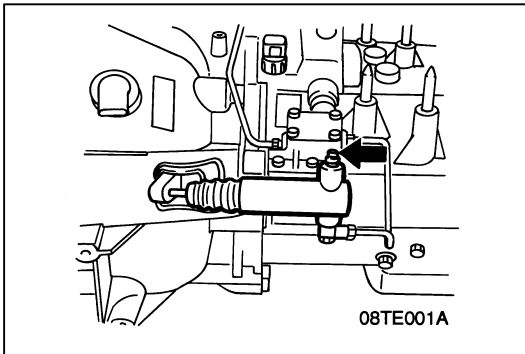
Do not push in the master cylinder push rod at this time.

4. After completing the adjustments, confirm that the clutch pedal free play (measured at the face of the pedal pad) and the distance between the clutch pedal (the face of the pedal pad) and the firewall when the clutch is disengaged are within the standard value ranges.

Standard value (C): 6–13 mm

Standard value (D): 45 mm or more

5. If the clutch pedal free play and the distance between the clutch pedal and the firewall when the clutch is disengaged do not agree with the standard values, it is probably the result of either air in the hydraulic system or a faulty master cylinder or clutch. Bleed the air, or disassemble and inspect the master cylinder or clutch.



BLEEDING

1. Top up the fluid reservoir.

Specified brake fluid: DOT 4

NOTE

Always use the specified fluid that is clean and uncontaminated and has been stored in a sealed container.

2. Attach a length of transparent tubing to the bleed valve and insert the other end into a jar, partially filled with hydraulic fluid.
3. With an assistant to operate the clutch, open the bleed valve approximately half a turn, and depress the pedal. Just before the pedal reaches the end of its travel, close the bleed valve and allow the pedal to return to the rest position.
4. Repeat step 3 until the fluid hose is free of air bubbles.

NOTE

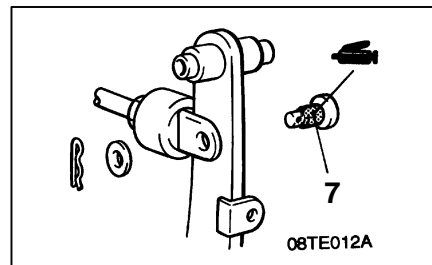
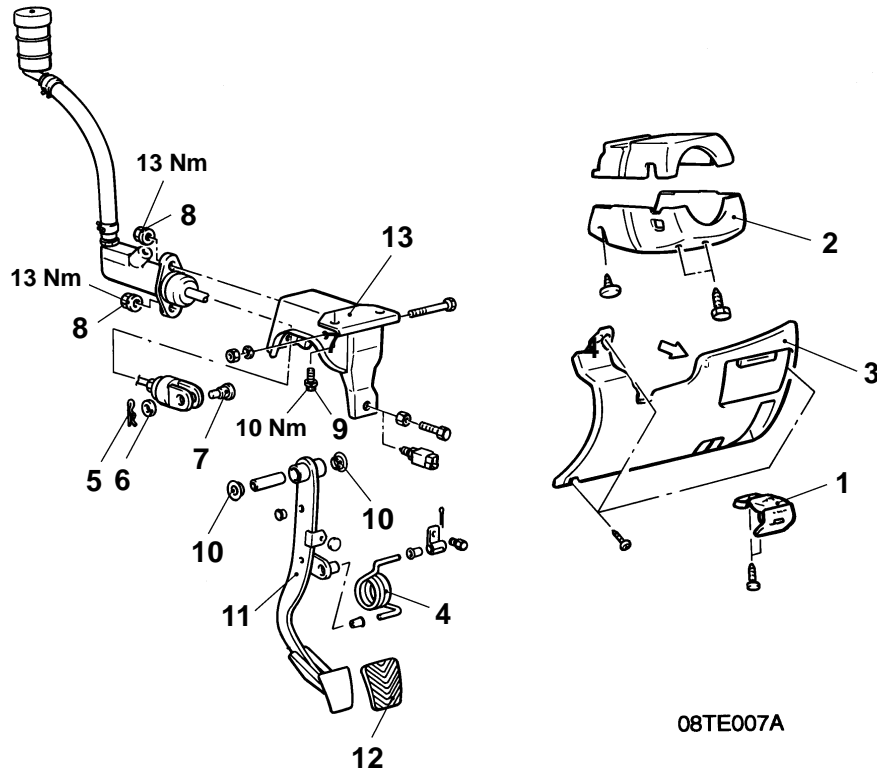
Ensure the reservoir fluid is replenished throughout the bleeding procedure.

5. Fill the master cylinder to the correct level.

CLUTCH PEDAL

REMOVAL AND INSTALLATION

Post-installation Operation
Clutch Pedal Adjustment (Refer to [P.21-3.](#))



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Removal steps

1. Hood release lever
2. Lower column cover
3. Instrument under cover
4. Return spring
5. R-clip
6. Washer
7. Clevis pin
8. Nut
9. Bolt
10. Bushing
11. Clutch pedal
12. Pedal pad
13. Pedal support member

INSPECTION

- Check the pedal shaft and bushing for wear.
- Check the clutch pedal for bend or torsion.
- Check the return spring for damage or deterioration.
- Check the pedal pad for damage or wear.

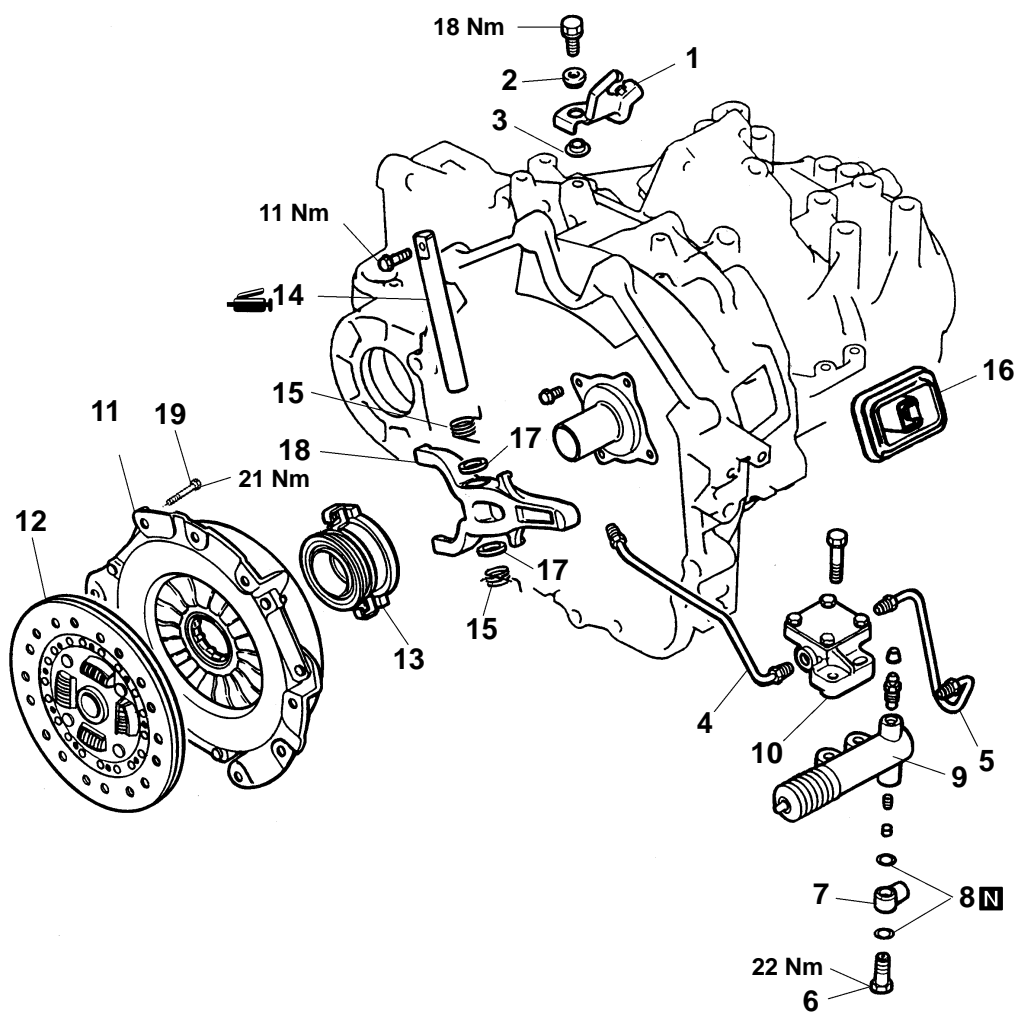
CLUTCH DISC

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

- Remove or install Manual Transmission

Note: The clutch release bearing must be disengaged from the clutch cover before the transmission is removed.



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Removal procedure

1. Clutch fluid line bracket
2. Insulator
3. Washer
4. Clutch tube A
5. Clutch tube B
6. Union bolt
7. Union
8. Gasket
9. Clutch release cylinder

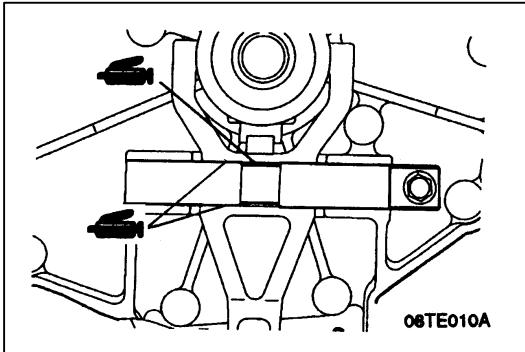
10. Clutch damper
11. Clutch cover
12. Clutch disc
13. Clutch release bearing
14. Release fork shaft
15. Release fork return spring
16. Release fork boot
17. Packing
18. Release fork
19. Clutch cover bolt



SERVICE POINTS OF REMOVAL

◀A▶ RELEASE FORK

1. Remove release fork shaft bolt
2. Remove release fork shaft and packing.
3. Remove release fork.



SERVICE POINT OF INSTALLATION

▶A◀ RELEASE FORK

1. Apply grease to the release fork shaft and transmission case in the areas shown.
2. Install release fork.
3. Install release fork packing and shaft.
4. Install release fork shaft bolt.

INSPECTION

CLUTCH COVER ASSEMBLY

1. Check the diaphragm spring end for wear and uneven height. Replace if wear is evident or height difference exceeds the limit.

Limit: 0.5 mm

2. Check the pressure plate surface for wear, cracks and seizure.
3. Check the strap plate rivets for looseness and replace the clutch cover assembly if loose.

CLUTCH DISC

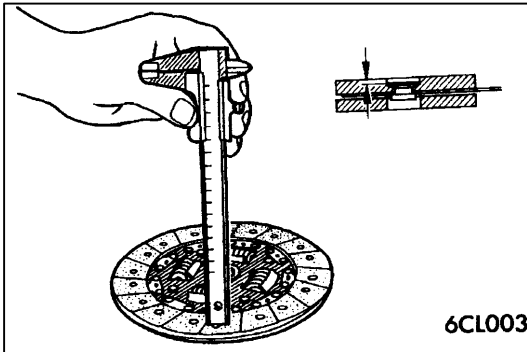
Caution:

Do not clean the clutch disc in a cleaning fluid.

1. Check the facing for loose rivets, uneven contact, deterioration due to seizure, adhesion of oil or grease and replace the clutch disc if defective.
2. Measure the rivet sink and replace the clutch disc if it is out of specification.

Limit: 0.5 mm

3. Check torsion spring for play and damage and replace the clutch disc if defective.
4. Combine the clutch disc with the output shaft and check the sliding condition and play in the rotating direction. If it does not slide smoothly or the play is excessive, replace the clutch disc and/or the input shaft.



CLUTCH RELEASE BEARING

Caution:

The release bearing is packed with grease. Therefore do not wash it in cleaning solvent or the like.

1. Check bearing for seizure, damage, noise or improper rotation. Also check the diaphragm spring contact surface for wear.
2. Replace bearing if its release fork contact surface is abnormally worn.
3. Replace release fork if its bearing contact surface is abnormally worn.

RELEASE FORK

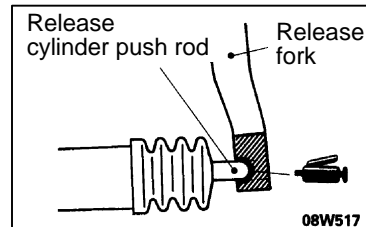
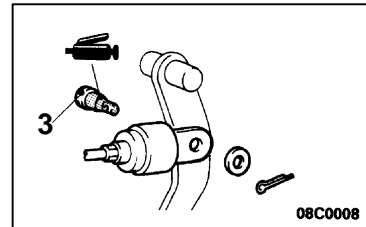
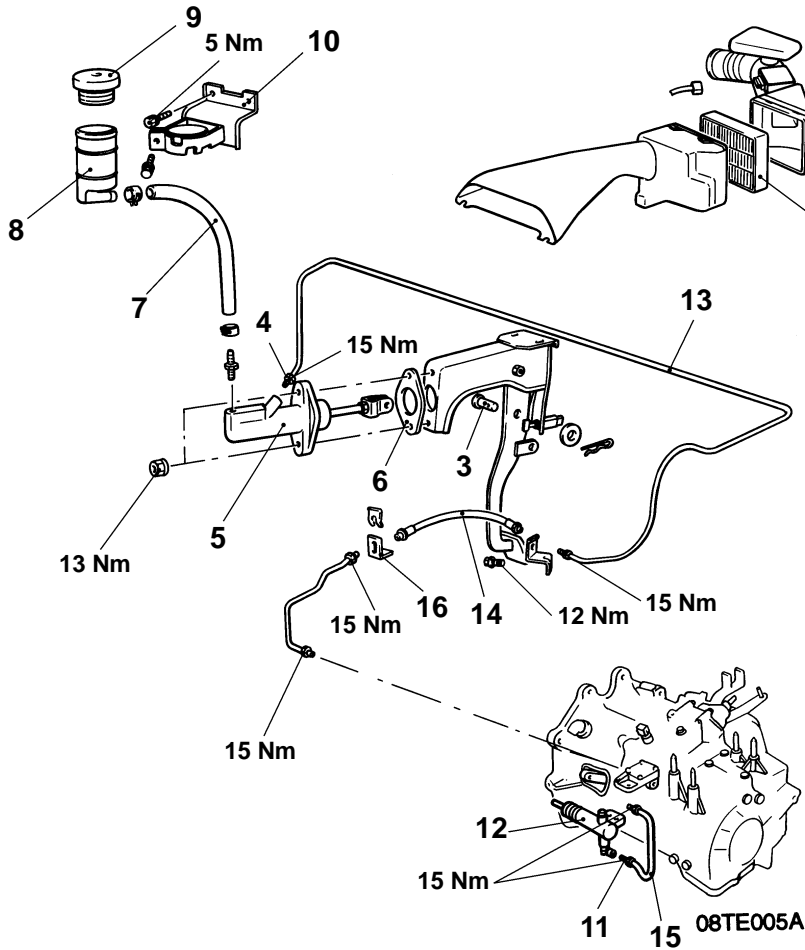
1. Replace release fork if its bearing contact surface is abnormally worn.

CLUTCH CONTROL**REMOVAL AND INSTALLATION****Pre-removal Operation**

Clutch Fluid Draining

Post-installation Operation

- (1) Clutch Fluid Supplying
- (2) Clutch Line Bleeding (Refer to P.21-4.)
- (3) Clutch Pedal Adjustment (Refer to P.21-3.)



Specified grease:
MITSUBISHI genuine
 grease Part No. 0101011

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Clutch master cylinder removal steps

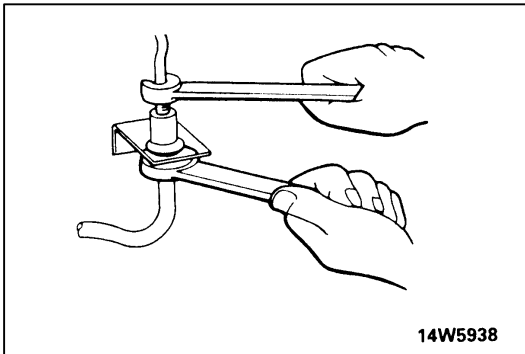
1. Air cleaner element
2. Air cleaner cover
3. Clevis pin
4. Clutch pipe connection
5. Clutch master cylinder
6. Sealer
7. Reservoir hose
8. Reservoir tank
9. Reservoir cap
10. Reservoir bracket

Clutch release cylinder removal steps

11. Clutch pipe connection
12. Clutch release cylinder

Clutch line removal steps

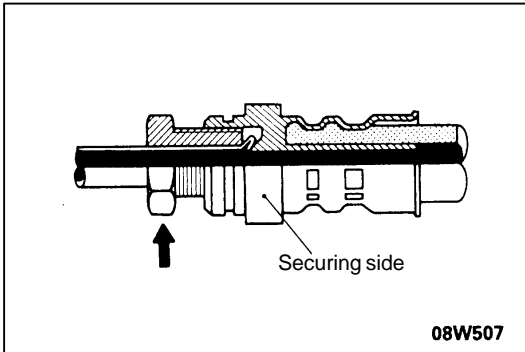
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| ▶▶▶ | ▶▶▶ | 13. Clutch pipe |
| ▶▶▶ | ▶▶▶ | 14. Clutch hose |
| ▶▶▶ | ▶▶▶ | 15. Clutch pipe |
| | | 16. Clutch hose bracket |



REMOVAL SERVICE POINT

◀A▶ CLUTCH HOSE REMOVAL

Holding the nut at the clutch hose side, loosen the flare nut of the clutch pipe.



INSTALLATION SERVICE POINT

▶A◀ CLUTCH HOSE/CLUTCH PIPE INSTALLATION

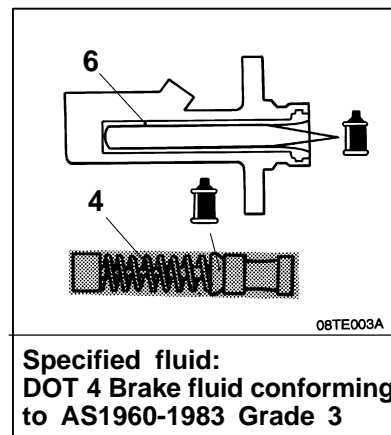
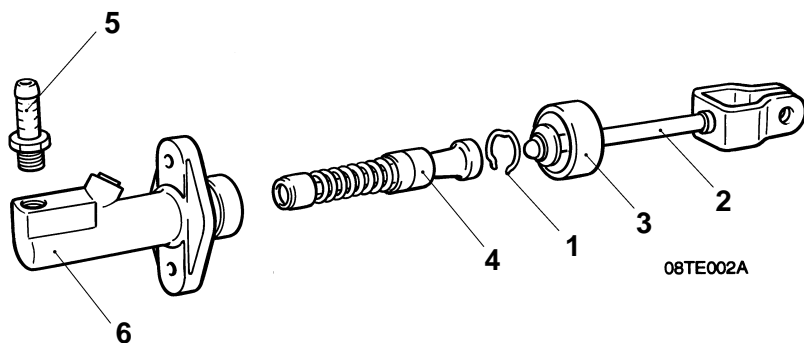
1. Temporarily tighten the clutch pipe flare nut by hand, and then tighten it to the specified torque, being careful that the clutch hose does not become twisted.
2. After tightening the clutch pipe flare nut and eye bolt, check to be sure there is no clutch fluid leakage.

INSPECTION

- Check the pedal shaft bushing for wear.
- Check the pedal arm for bend or torsion.
- Check the fluid reservoir tank, master cylinder or clutch hose for fluid leakage.
- Check the clutch hose or pipe for cracks or clogging.

CLUTCH MASTER CYLINDER

DISASSEMBLY AND REASSEMBLY



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Disassembly steps

1. Piston stopper ring
2. Damper push rod
3. Boot
4. Piston assembly
5. Nipple
6. Clutch master cylinder

Caution

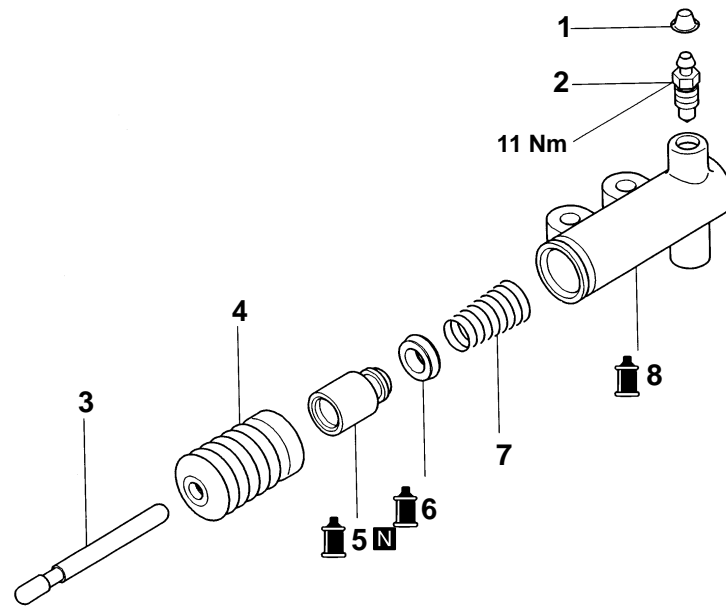
1. Do not damage the master cylinder bore or piston assembly.
2. Do not disassemble the piston assembly.

INSPECTION

- Check the inside cylinder body for rust or scoring.
- Check the piston cup for wear or deformation.
- Check the piston for rust or scoring.
- Check the clutch pipe connection for clogging.

CLUTCH RELEASE CYLINDER

DISASSEMBLY AND REASSEMBLY



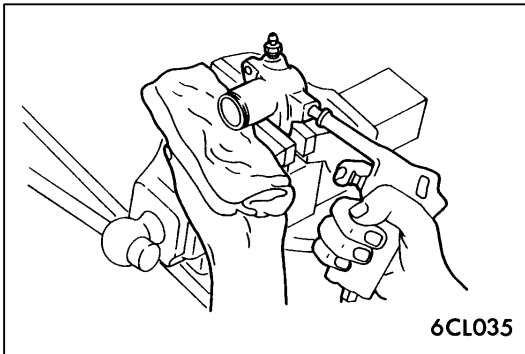
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Disassembly steps

1. Cap
2. Air bleeder
3. Push rod
4. Boot



5. Piston cup
6. Piston
7. Conical spring
8. Release cylinder



REMOVAL SERVICE POINT

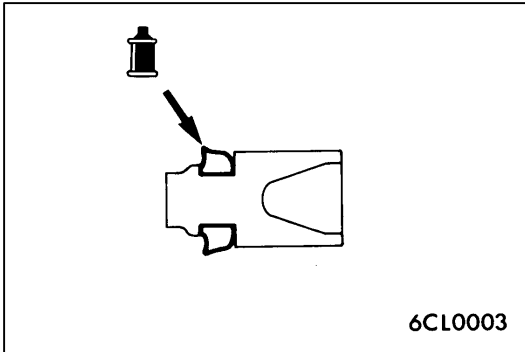
◀A▶ PISTON AND PISTON CUP

1. Remove the piston from the release cylinder using compressed air.

CAUTION

Cover with shop towel to prevent the piston from popping out.

Apply compressed air slowly to prevent brake fluid from splashing.



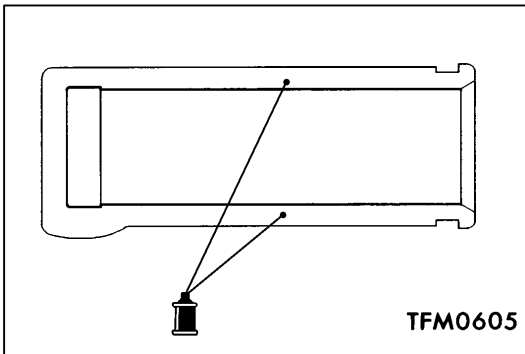
INSTALLATION SERVICE POINT

▶A◀ PISTON AND PISTON CUP

1. After applying brake fluid to the inside wall surface of the release cylinder and all the circumferential surfaces of the piston and piston cup, insert the piston and piston cup into the cylinder.

Specified brake fluid:

Dot 4 conforming to AS1960–1983 Grade 3



INSPECTION

CLUTCH RELEASE CYLINDER

1. Check the inner surface of the release cylinder for rust, scratches or irregular wear.
2. Using a cylinder gauge, measure the inside diameter of the release cylinder at about three positions (the deepest, middle and brim positions). If the clearance from the outside diameter of the piston exceeds the limit, replace the release cylinder assembly as an assembly.

Limit: 0.15mm