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# CLUTCH

## CONTENTS

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<b>GENERAL INFORMATION</b> .....	<b>2</b>	<b>CLUTCH PEDAL</b> .....	<b>4</b>
<b>SERVICE SPECIFICATIONS</b> .....	<b>2</b>	<b>CLUTCH CONTROL</b> .....	<b>5</b>
<b>LUBRICANTS</b> .....	<b>2</b>	Clutch Master Cylinder .....	7
<b>ON-VEHICLE SERVICE</b> .....	<b>2</b>		
Clutch Pedal Inspection and Adjustment .....	2		
Bleeding .....	3		



**GENERAL INFORMATION**

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The clutch is a dry single-disc, diaphragm type; hydraulic pressure is used for the clutch control.

**SERVICE SPECIFICATIONS**

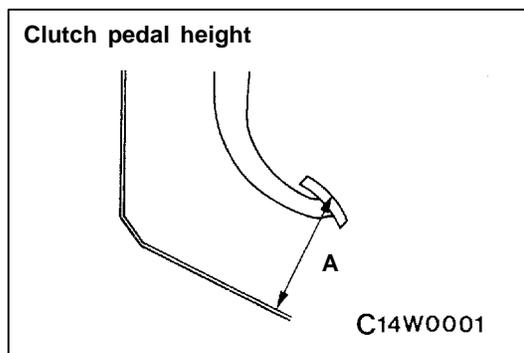
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Items	Standard value
Clutch pedal height mm	163 - 166
Clutch pedal clevis pin play mm	1 - 3
Clutch pedal free play mm	6 - 13
Distance between the clutch pedal and the toeboard when the clutch is disengaged mm	80 or more

**LUBRICANTS**

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Items	Specified lubricants	Quantity
Clutch fluid	Brake fluid DOT3 or DOT4	As required
Push rod assembly	Rubber grease	
Boot		
Release cylinder push rod	MITSUBISHI genuine grease Part No. 0101011	

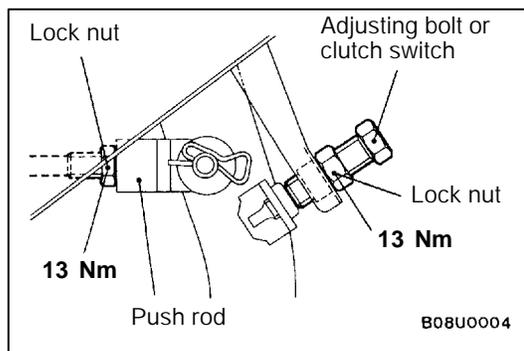
**ON-VEHICLE SERVICE**

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**CLUTCH PEDAL INSPECTION AND ADJUSTMENT**

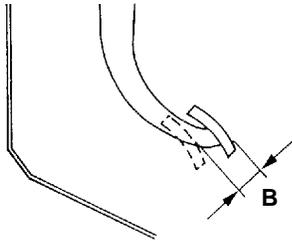
1. Turn up the carpet, etc. under the clutch pedal.
2. Measure the clutch pedal height.

**Standard value (A): 163 - 166 mm**



3. 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 push rod, adjusting bolt <vehicles without auto cruise control system> or clutch switch <vehicles with auto cruise control system>.

## Clutch pedal clevis pin play



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4. Measure the clutch pedal play.

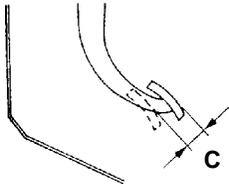
**Standard value (B): 1 - 3 mm**

5. If the clutch pedal play is not within the standard value, loosen the lock nut and move the push rod to adjust.

**Caution**

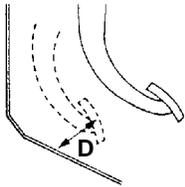
**Do not push in the master cylinder push rod at this time.**

## Clutch pedal free play



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**Distance between the clutch pedal and the toeboard when the clutch is disengaged**

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6. 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 toeboard when the clutch is disengaged are within the standard value ranges.

**Standard value (C): 6-13 mm**

**Standard value (D): 80 mm or more**

7. If the clutch pedal free play and the distance between the clutch pedal and the toeboard 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.
8. Turn back the carpet, etc.

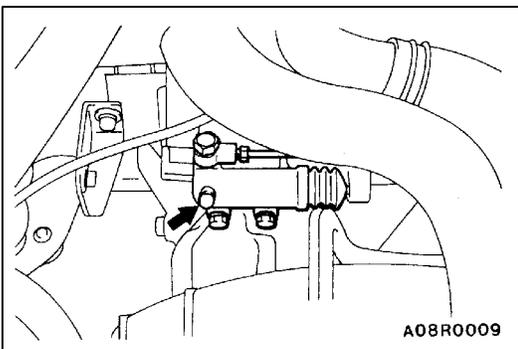
**BLEEDING**

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**Specified fluid: Brake fluid DOT 3 or DOT 4**

**Caution**

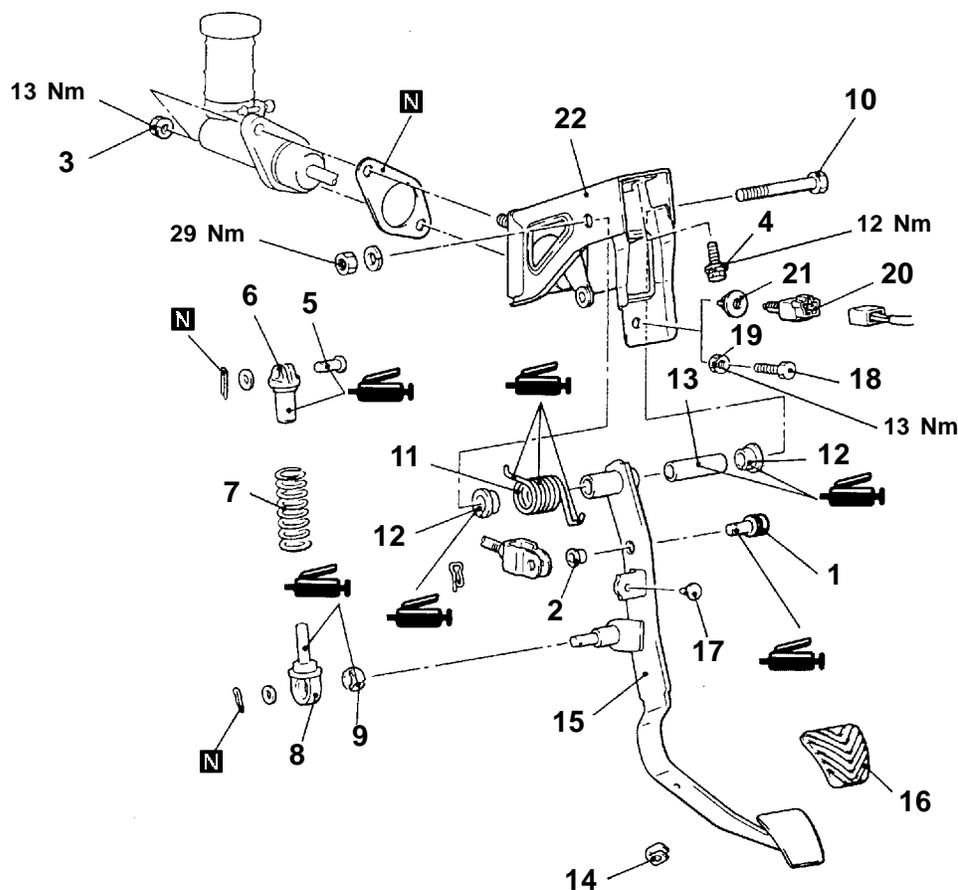
**Use the specified brake fluid. Avoid using a mixture of the specified fluid and other fluid.**



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**CLUTCH PEDAL****REMOVAL AND INSTALLATION****Post-installion Operation**

Clutch Pedal Adjustment (Refer to P.21-2)



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**Removal steps**

1. Clevis pin assembly
2. Bushing
3. Nut
4. Bolt
5. Clevis pin <6A1>
6. Rod A <6A1>
7. Turnover spring <6A1>
8. Rod B <6A1>
9. Bushing <6A1>
10. Bolt
11. Clutch return spring
12. Clutch pedal bushing
13. Pipe
14. Stopper <R.H. drive vehicles>
15. Clutch pedal
16. Pedal pad
17. Stopper
18. Adjusting bolt <Vehicles without auto cruise control system>
19. Lock nut <Vehicles without auto cruise control system>
20. Clutch switch <Vehicles with auto cruise control system>
21. Clip <Vehicles with auto cruise control system>
22. Master cylinder member assembly

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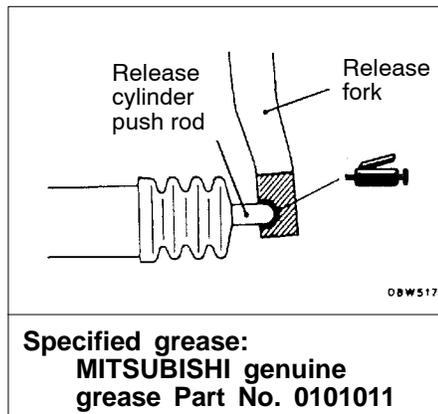
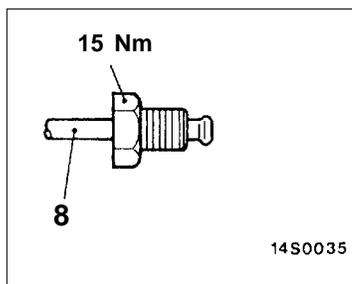
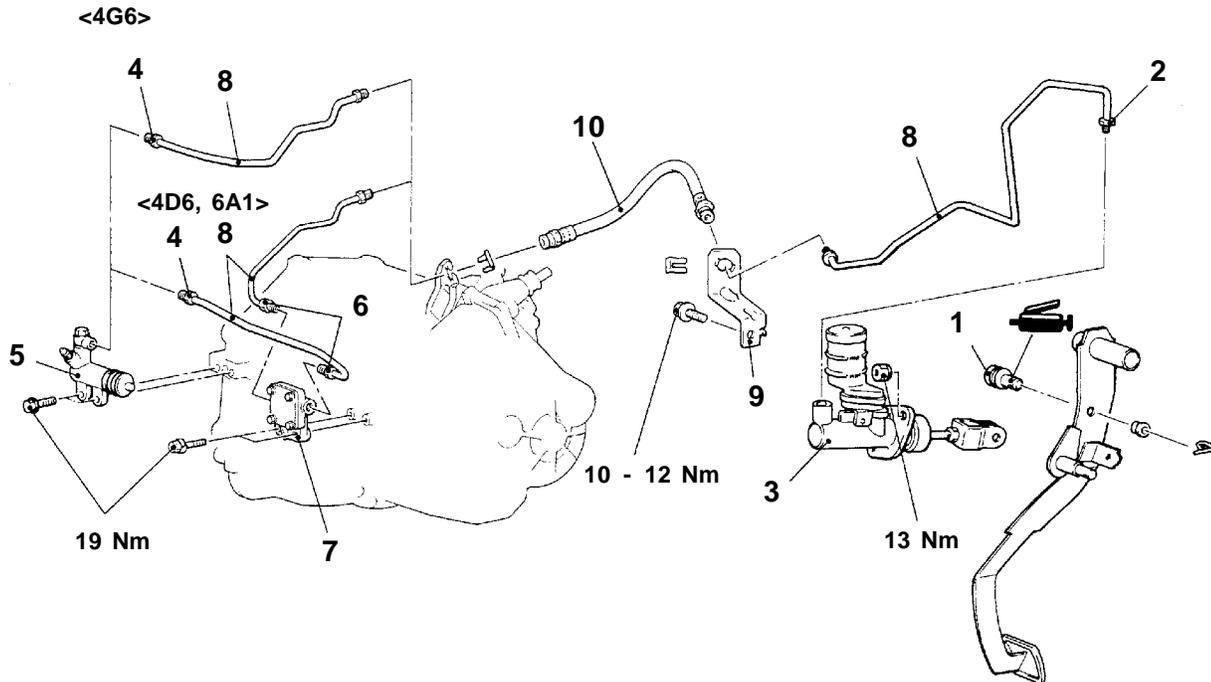
**CLUTCH CONTROL****REMOVAL AND INSTALLTION**

**Pre-removal Operation**  
Clutch Fluid Draining

**Post-installation Operation**

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

&lt;L.H. drive vehicles&gt;



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**Clutch master cylinder removal steps**

1. Clevis pin assembly
2. Clutch pipe connection
3. Clutch master cylinder

**Clutch release cylinder removal steps**

4. Clutch pipe connection
5. Clutch release cylinder

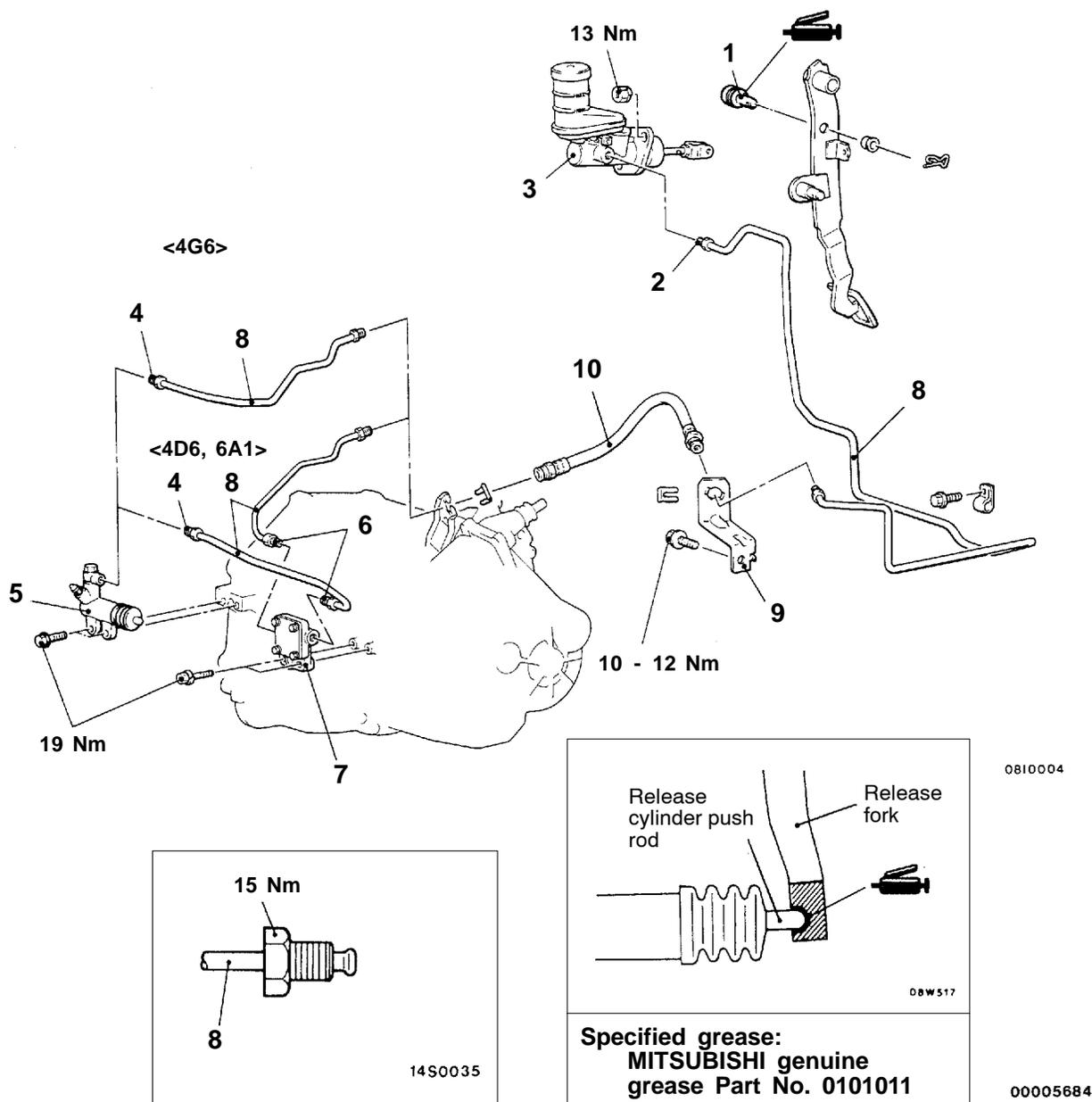
**Clutch fluid line damper removal steps <4D6, 6A1>**

6. Clutch pipe connection
7. Clutch fluid line damper

**Clutch line removal steps**

8. Clutch pipe
9. Bracket
10. Clutch hose

&lt;R.H. drive vehicles&gt;

**Clutch master cylinder removal steps**

1. Clevis pin assembly
2. Clutch pipe connection
3. Clutch master cylinder

**Clutch release cylinder removal steps**

4. Clutch pipe connection
5. Clutch release cylinder

**Clutch fluid line damper removal steps <4D6, 6A1>**

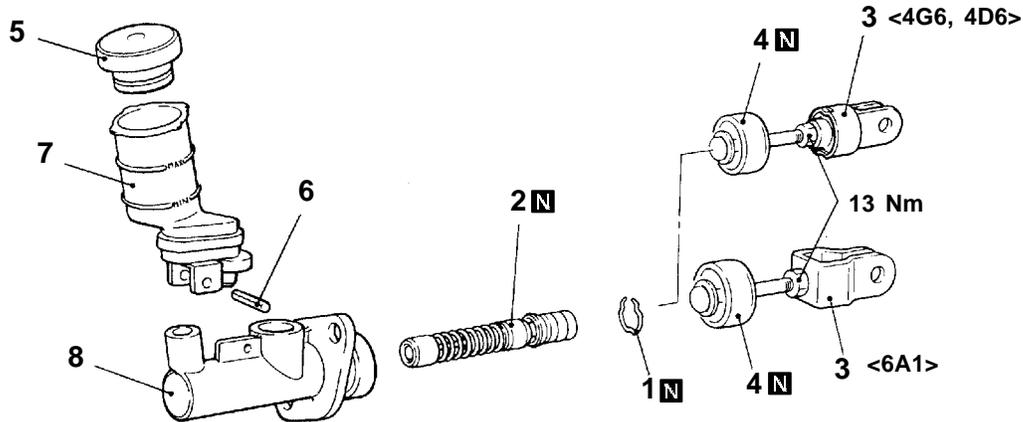
6. Clutch pipe connection
7. Clutch fluid line damper

**Clutch line removal steps**

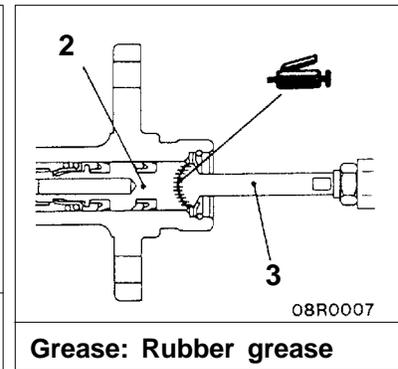
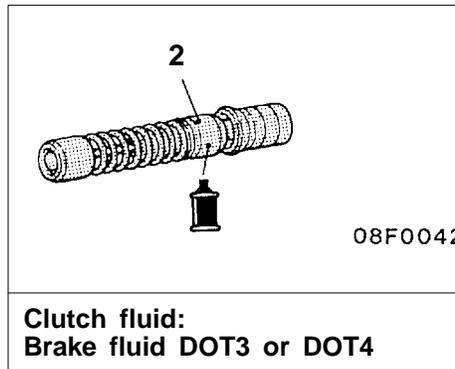
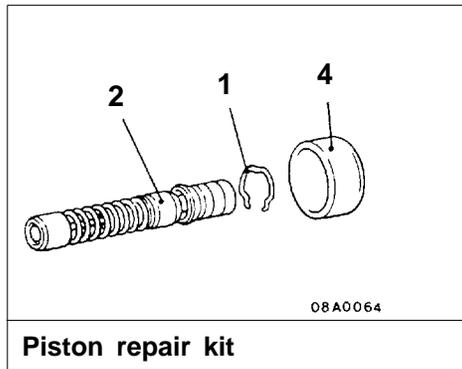
8. Clutch pipe
9. Bracket
10. Clutch hose

**DISASSEMBLY AND REASSEMBLY  
CLUTCH MASTER CYLINDER**

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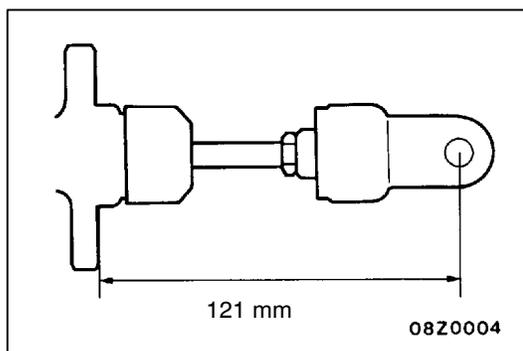
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**Disassembly steps**

- ▶◀
1. Piston stopper ring
  2. Piston assembly
  3. Push rod assembly
  4. Boot
  5. Reservoir cap
  6. Spring pin

7. Reservoir tank
8. Clutch master cylinder assembly

**Caution**  
Do not disassemble piston assembly.



**INSTALLATION SERVICE POINT**

▶◀ **PUSH ROD ASSEMBLY INSTALLATION**

Set the length of the push rod assembly to the shown dimension to make the adjustment of clutch pedal easier.

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## NOTES