

# CLUTCH

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120002599

### <Cable type>

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### <Hydraulic type>

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# CLUTCH <CABLE TYPE>

## GENERAL INFORMATION

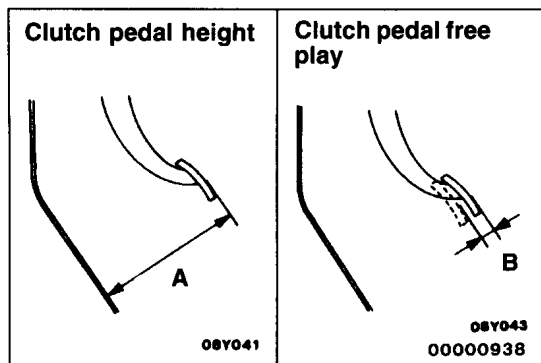
120000531

The clutch is a dry single-disc, diaphragm type;  
the clutch is controlled by means of a cable.

## SERVICE SPECIFICATIONS

120000532

Items	Standard value
Clutch pedal height mm	162–167
Clutch pedal free play mm	15–20
Distance between the clutch pedal and the toeboard when the clutch is disengaged mm	85



## SERVICE ADJUSTMENT PROCEDURES

120000533

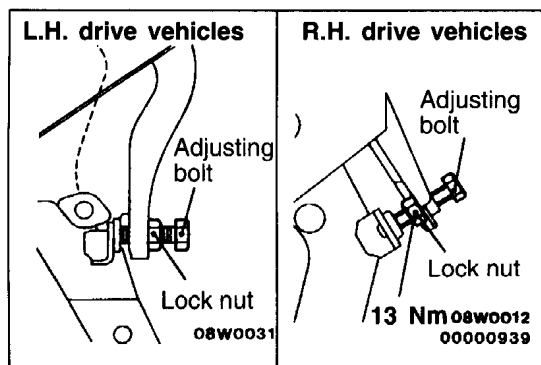
### CLUTCH PEDAL INSPECTION AND ADJUSTMENT

1. Measure the clutch pedal height and the clutch pedal free play.

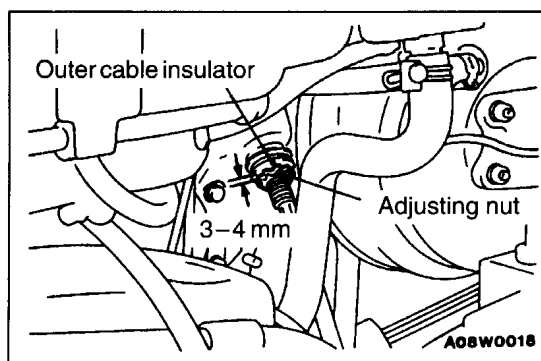
**Standard value (A): 162–167 mm**

**Standard value (B): 15–20 mm**

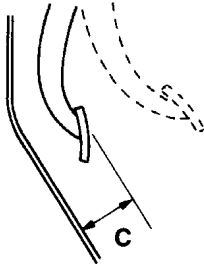
2. If the height of the clutch pedal is outside the standard value, loosen the lock nut and adjust the pedal height to the standard value using the adjusting bolt.



3. If the clutch pedal play is outside the standard value, adjust by turning the adjusting nut so that the clearance between the adjusting nut and the outer cable insulator on the engine compartment side of the toeboard is at the standard dimension when the clutch cable is gently pulled.



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



08N0010

4. After completing the adjustments, 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): 85 mm or more**

5. If the distance between the clutch pedal and the toeboard when the clutch is disengaged do not agree with the standard values, disassemble and inspect the clutch.

## CLUTCH PEDAL

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## REMOVAL AND INSTALLATION

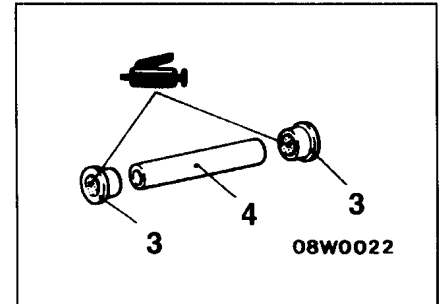
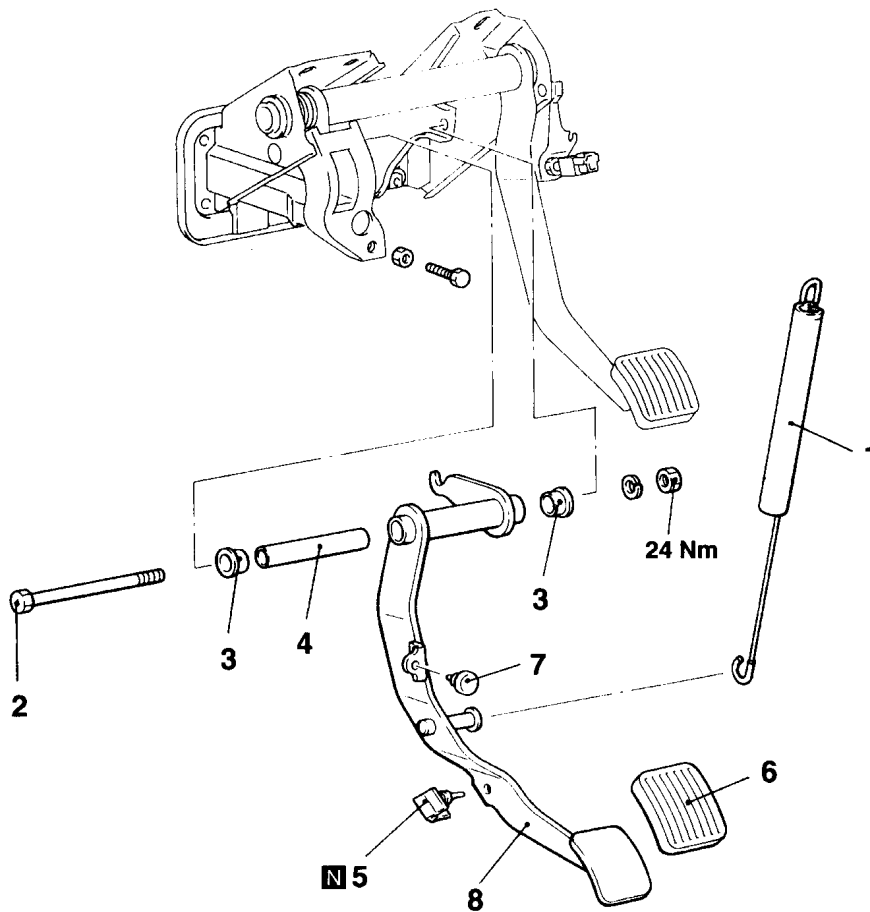
L.H. drive vehicles

**Pre-removal Operation**

- Brake and Clutch Pedal Assembly Removal (Refer to GROUP 35A – Brake Pedal.)

**Post-installation Operation**

1. Brake and Clutch Pedal Assembly Installation (Refer to GROUP 35A – Brake Pedal.)
2. Clutch Pedal Adjustment (Refer to P. 21-2.)

**Removal steps**

1. Return spring
2. Bolt
3. Bushing
4. Spacer
5. Stopper
6. Pedal pad
7. Stopper
8. Clutch pedal

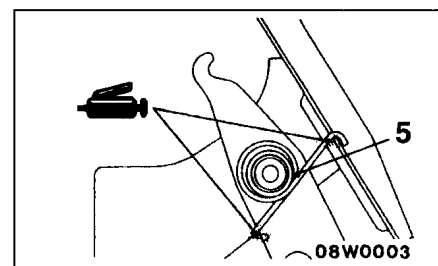
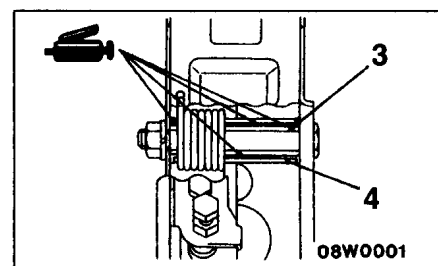
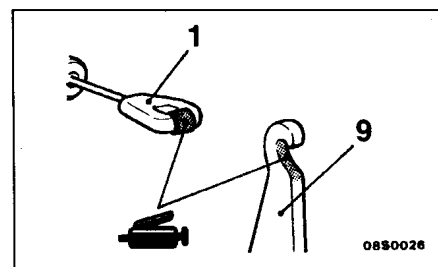
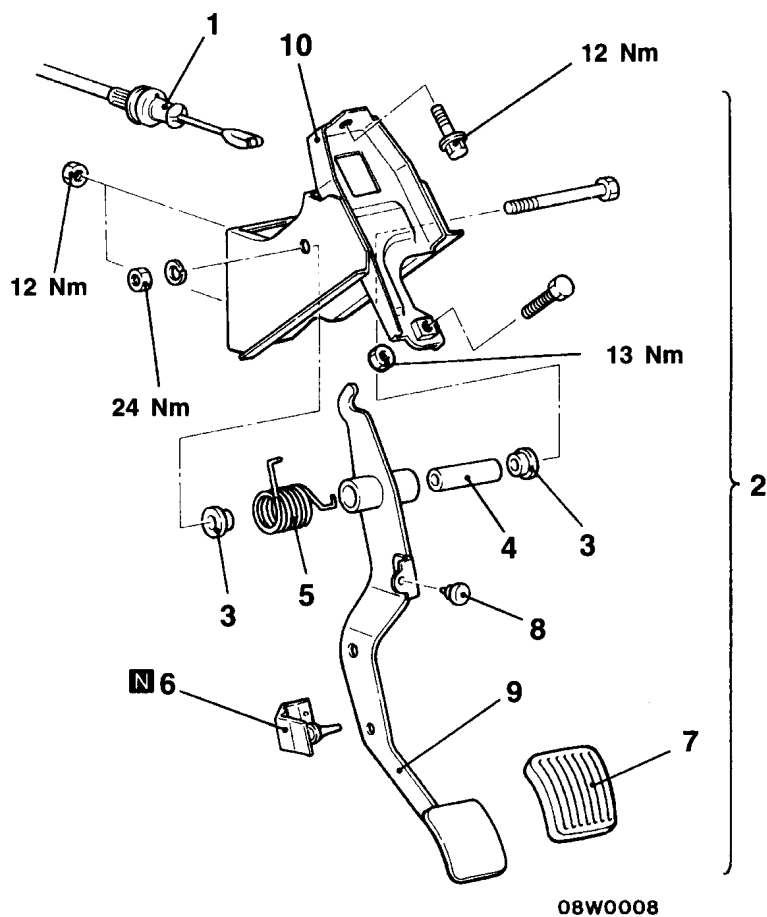
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00002255

## R.H. drive vehicles

**Post-Installation Operation**

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



00000941

**Removal steps**

1. Clutch cable connection
2. Clutch pedal assembly
3. Bushing
4. Spacer
5. Clutch return spring
6. Stopper
7. Pedal pad
8. Stopper
9. Clutch pedal
10. Pedal support member

## CLUTCH CONTROL

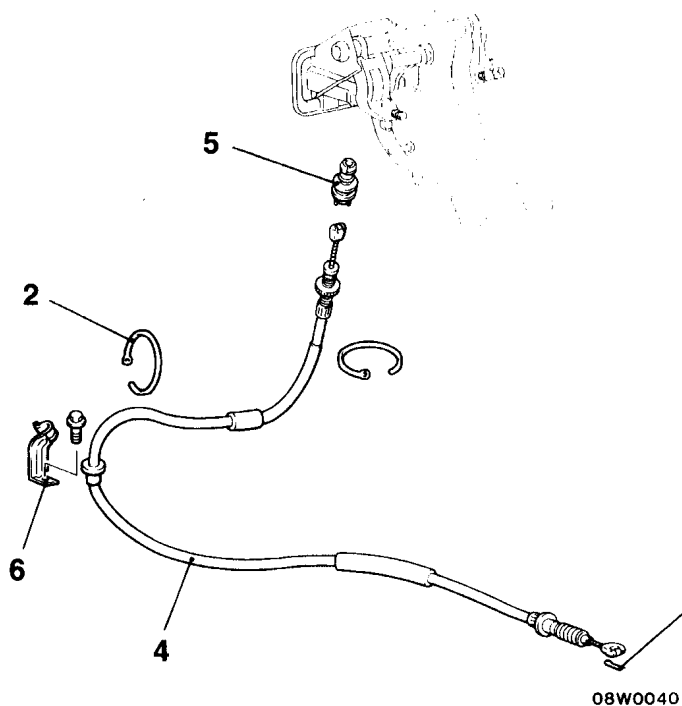
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## REMOVAL AND INSTALLATION

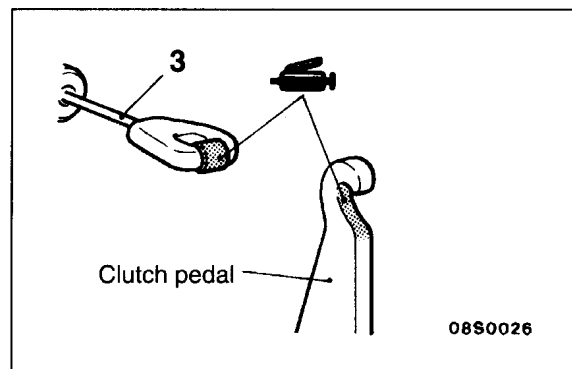
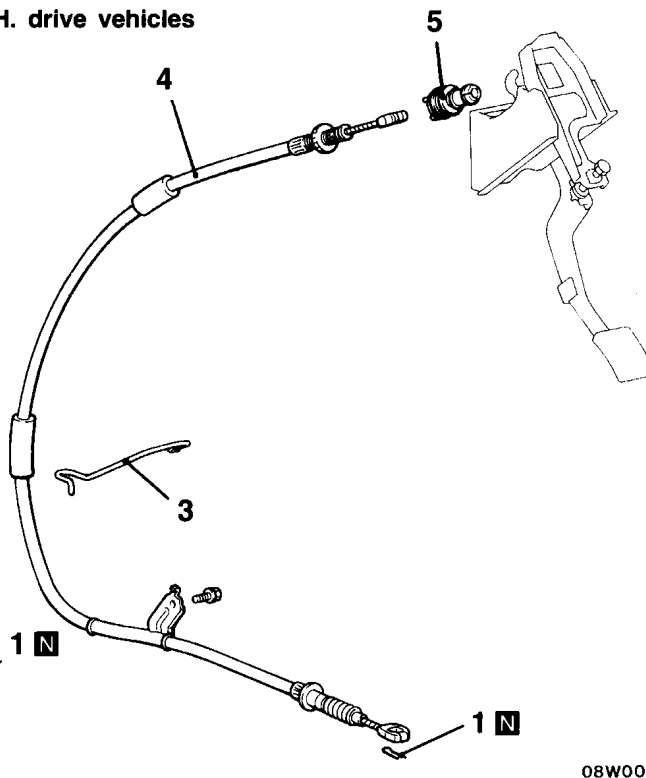
**Post-installation Operation**

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

L.H. drive vehicles



R.H. drive vehicles



00002256

**Removal steps**

1. Split pin
2. Cable band
3. Spring
4. Clutch cable assembly
5. Outer cable insulator
6. Cable crip

# CLUTCH <HYDRAULIC TYPE>

## GENERAL INFORMATION

120000536

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

## SERVICE SPECIFICATIONS

120000537

Items	Standard value
Clutch pedal height mm	162–167
Clutch pedal free play mm	6–13
Clutch pedal clevis pin play mm	1–3
Distance between the clutch pedal and the toeboard when the clutch is disengaged mm	85

## LUBRICANTS

120000538

Items	Specified lubricants	Quantity
Clutch fluid	Brake fluid DOT 3 or DOT 4	As required
Push rod assembly	Rubber grease	As required
Boot		
Release cylinder push rod	MITSUBISHI genuine grease Part No. 0101011	As required

## SERVICE ADJUSTMENT PROCEDURES

120000539

### CLUTCH PEDAL INSPECTION AND ADJUSTMENT

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

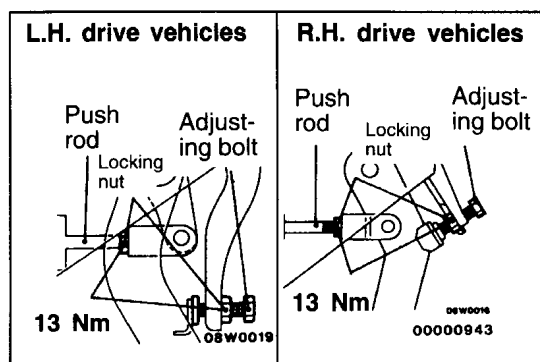
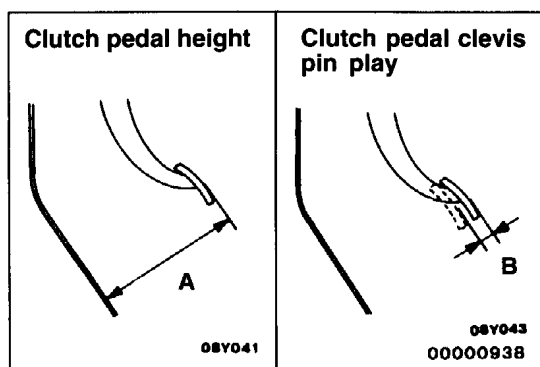
**Standard value (A): 162–167 mm**

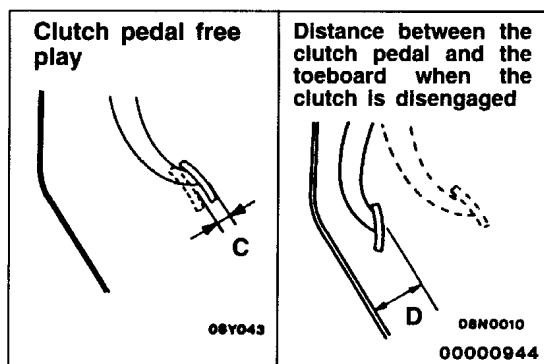
**Standard value (B): 1–3 mm**

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

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

**Standard value (C): 6–13 mm**

**Standard value (D): 85 mm**

5. 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.

## BLEEDING

120000540

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

### Caution

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



## CLUTCH PEDAL

## REMOVAL AND INSTALLATION

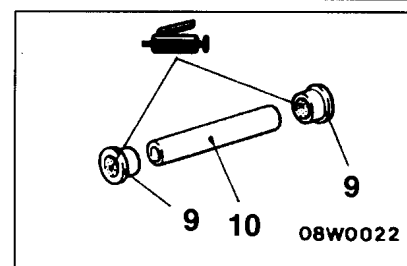
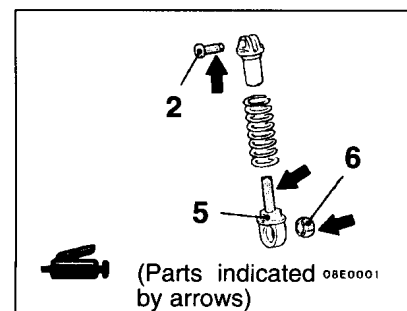
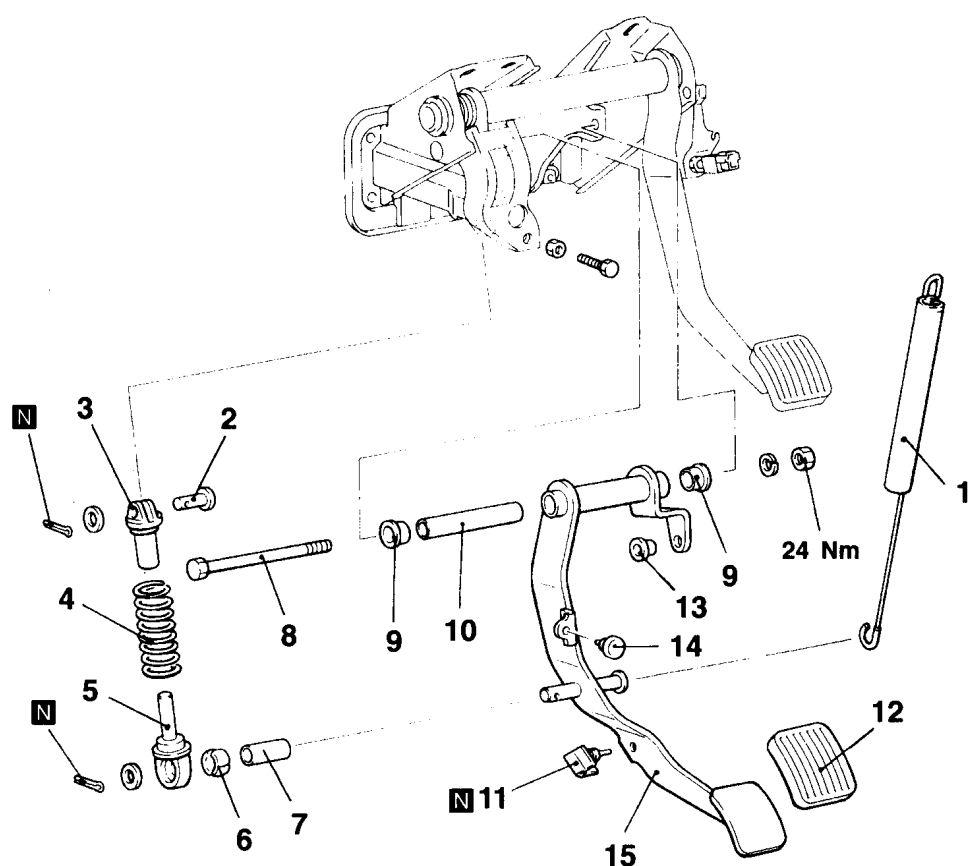
## L.H. drive vehicles

**Pre-removal Operation**

- Brake and Clutch Pedal Assembly Removal (Refer to GROUP 35A – Brake Pedal.)

**Post-installation Operation**

1. Brake and Clutch Pedal Assembly Installation (Refer to GROUP 35A – Brake Pedal.)
2. Clutch Pedal Adjustment (Refer to P. 21-7.)



08W0024

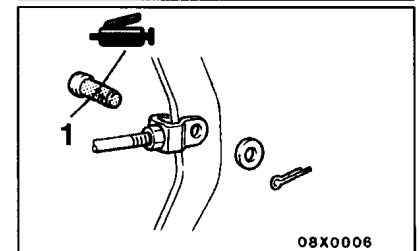
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**Removal steps**

1. Return spring <Petrol-powered vehicles>
2. Clevis pin <Diesel-powered vehicles>
3. Rod A <Diesel-powered vehicles>
4. Turnover spring <Diesel-powered vehicles>
5. Rod B <Diesel-powered vehicles>
6. Bushing <Diesel-powered vehicles>
7. Pipe <Diesel-powered vehicles>
8. Bolt
9. Bushing
10. Pipe
11. Stopper
12. Pedal pad
13. Bushing
14. Stopper
15. Clutch pedal

## Post-Installation Operation

- [illegible]



1. Clevis pin
2. Clutch master cylinder installation nut
3. Clutch pedal assembly
4. Clevis pin <Diesel-powered vehicles>
5. Rod A <Diesel-powered vehicles>
6. Turnover spring <Diesel-powered vehicles>
7. Rod B <Diesel-powered vehicles>
8. Bushing <Diesel-powered vehicles>
9. Pipe <Diesel-powered vehicles>
10. Bushing
11. Clutch pedal return spring <Petrol-powered vehicles>
12. Spacer
13. Bushing
14. Stopper
15. Pedal pad
16. Stopper
17. Clutch pedal
18. Pedal support member

## CLUTCH CONTROL

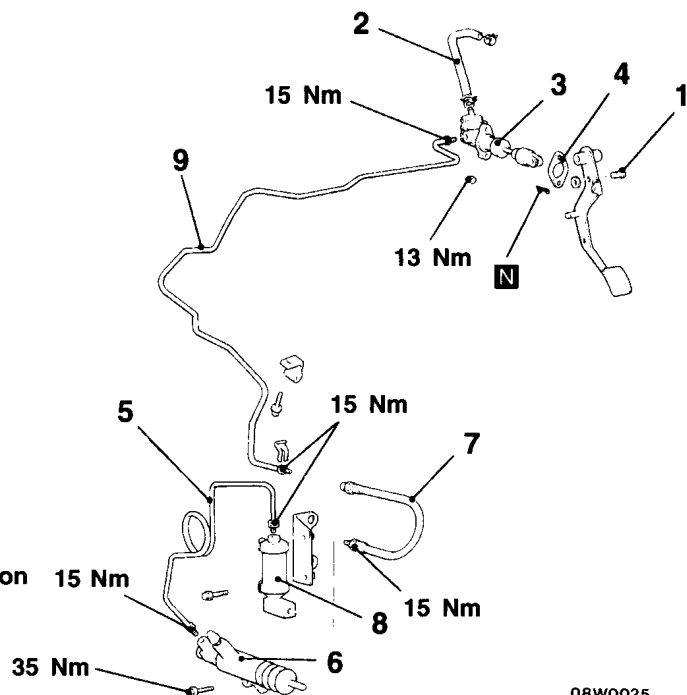
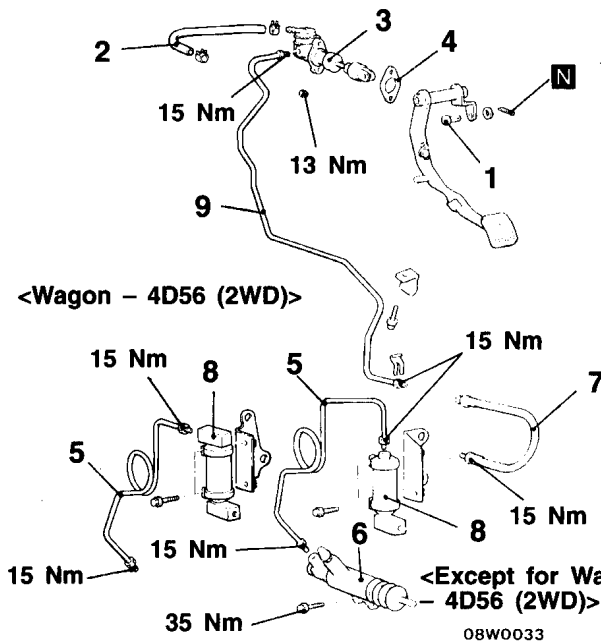
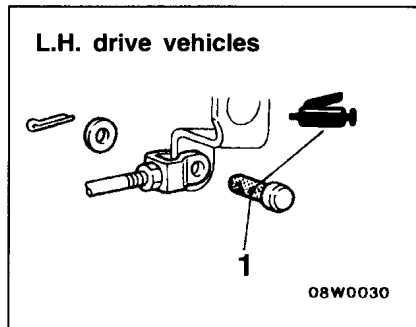
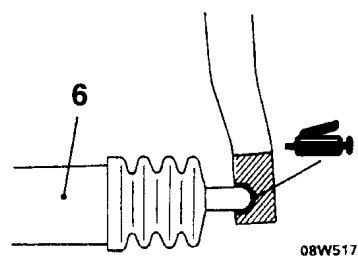
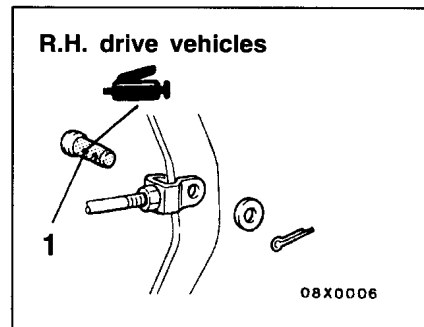
## REMOVAL AND INSTALLATION

**Pre-removal Operation**

- Clutch Fluid Draining

**Post-installation Operation**

1. Clutch Fluid Supplying
2. Clutch Line Bleeding (Refer to P. 21-8.)

**L.H. drive vehicles****R.H. drive vehicles****L.H. drive vehicles****R.H. drive vehicles**

**Specified grease:**  
**mitsubishi genuine grease**  
**Part No. 0101011**

**Clutch master cylinder removal steps**

- Clutch pedal adjustment (Refer to P. 21-7.)
- 1. Clevis pin
- 2. Reservoir hose
- 3. Clutch master cylinder
- 4. Sealer

**Clutch release cylinder removal steps**

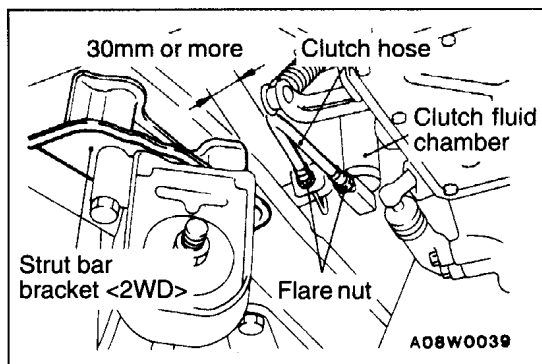
5. Clutch pipe connection
6. Clutch release cylinder

**Clutch fluid chamber removal steps**

- A◀
5. Clutch pipe connection
  7. Clutch hose connection
  8. Clutch fluid chamber

**Clutch line removal steps**

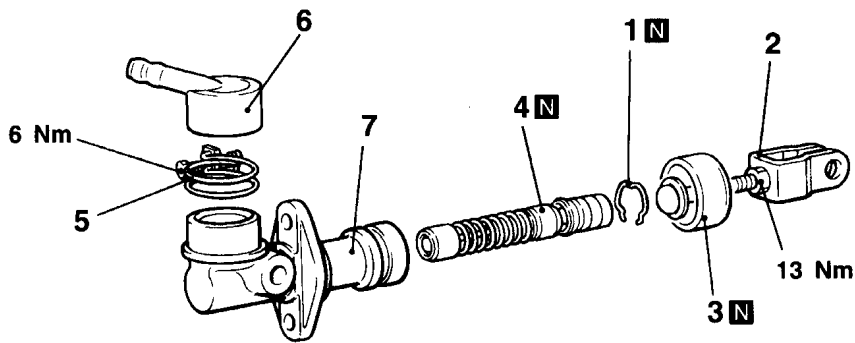
- A◀
5. Clutch pipe
  7. Clutch hose
  9. Clutch pipe

**INSTALLATION SERVICE POINT****▶A◀CLUTCH HOSE INSTALLATION <2WD>**

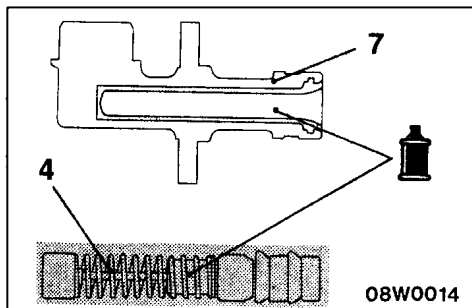
1. Tighten the flare nut at the clutch fluid chamber side.
2. Tighten the flare nut at the clutch pipe side so that the clearance between the strut bar bracket and the clutch hose can have the dimension shown in the illustration.

## DISASSEMBLY AND REASSEMBLY CLUTCH MASTER CYLINDER

120002114

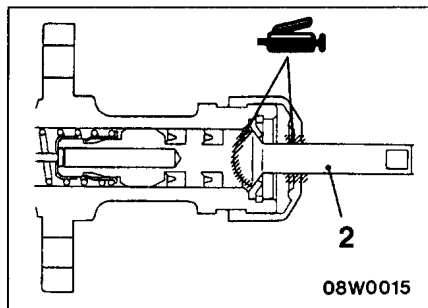


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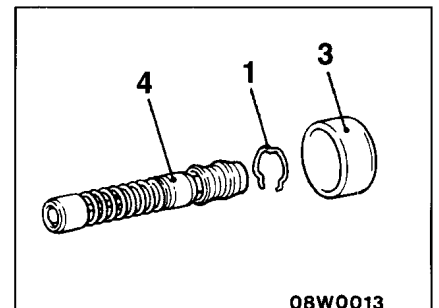
08W0014

Clutch fluid:  
Brake fluid DOT 3 or DOT 4



08W0015

Grease: Rubber grease



08W0013

Piston repair kit

00000948

### Disassembly steps

1. Piston stopper ring
2. Push rod assembly
3. Boot
4. Piston assembly
5. Reservoir band
6. Nipple
7. Clutch master cylinder body



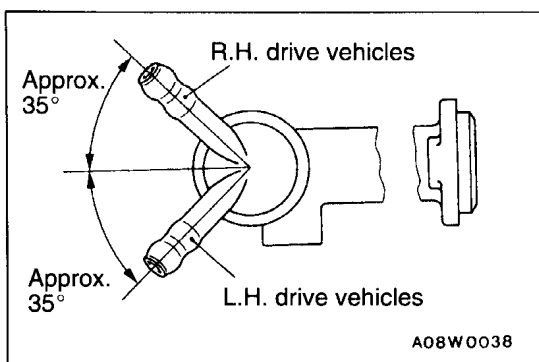
### Caution

Do not disassemble piston assembly.

## REASSEMBLY SERVICE POINT

### ►A◄ NIPPLE INSTALLATION

Install the nipple as shown in the illustration.



A08W0038