

---

# CLUTCH

**Click on the applicable bookmark to selected the required model year.**

---

---

# CLUTCH

CONTENTS

<b>GENERAL INFORMATION</b> .....	<b>2</b>	Clutch Pedal Position Switch	
<b>SERVICE SPECIFICATIONS</b> .....	<b>2</b>	Continuity Check .....	3
<b>LUBRICANTS</b> .....	<b>2</b>	Bleeding .....	3
<b>ON-VEHICLE SERVICE</b> .....	<b>2</b>	<b>CLUTCH PEDAL</b> .....	<b>4</b>
Clutch Pedal Inspection and Adjustment .....	2	<b>CLUTCH CONTROL</b> .....	<b>5</b>
		Clutch Master Cylinder .....	8

## GENERAL INFORMATION

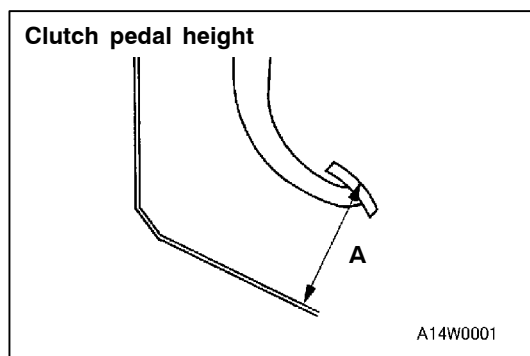
The clutch is a dry single-disc, diaphragm type; hydraulic pressure is used for the clutch control.

## SERVICE SPECIFICATIONS

Items	Standard value
Clutch pedal height mm	202 - 205 <L.H. drive vehicles> 197 - 200 <R.H. drive vehicles>
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	75 or more <L.H. drive vehicles> 70 or more <R.H. drive vehicles>

## LUBRICANTS

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



## ON-VEHICLE SERVICE

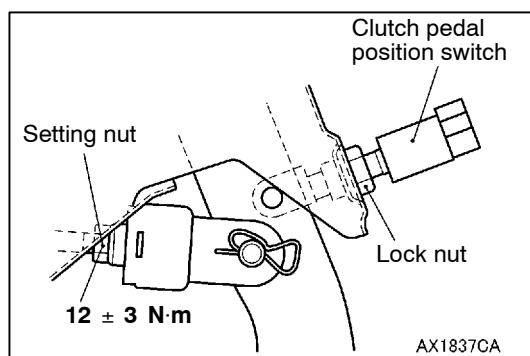
### CLUTCH PEDAL INSPECTION AND ADJUSTMENT

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

**Standard value (A):**

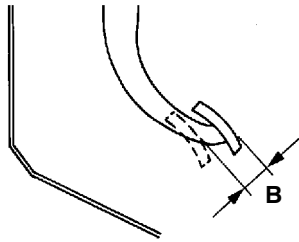
**202 - 205 mm <L.H. drive vehicles>**

**197 - 200 mm <R.H. drive vehicles>**



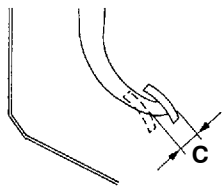
3. If the height of the clutch pedal is outside the standard value, loosen the setting nut or clutch pedal position switch lock nut <vehicles with auto-cruise control> to adjust the pedal height to the standard value.

## Clutch pedal clevis pin play



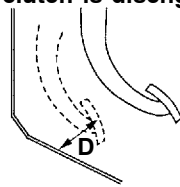
A14W0002

## Clutch pedal free play



14W0002

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



14W0003

00005683

4. Measure the clutch pedal clevis pin play.  
**Standard value (B): 1 - 3 mm**
5. If the clutch pedal play is not within the standard value, loosen the setting nut to adjust the play to the standard value.

**Caution**

**Do not push in the master cylinder push rod at this time, otherwise the clutch will not operate properly.**

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):**

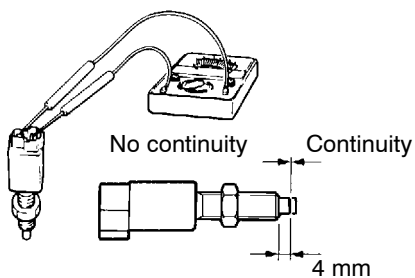
**75 mm or more <L.H. drive vehicles>**

**70 mm or more <R.H. drive vehicles>**

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, release cylinder or clutch. Bleed the air, or disassemble and inspect the master cylinder, release cylinder or clutch.
8. Turn back the carpet, etc.

**CLUTCH PEDAL POSITION SWITCH CONTINUITY CHECK**

1. Adjust the clutch pedal. (Refer to P.21-2.)
2. Depress the clutch pedal, and check the continuity between the terminals.



AX0014BN

Measurement Conditions	Terminal No.	Terminal No.
	1	2
Clutch pedal depressed		
Clutch pedal not depressed		

**BLEEDING**

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

**Caution**

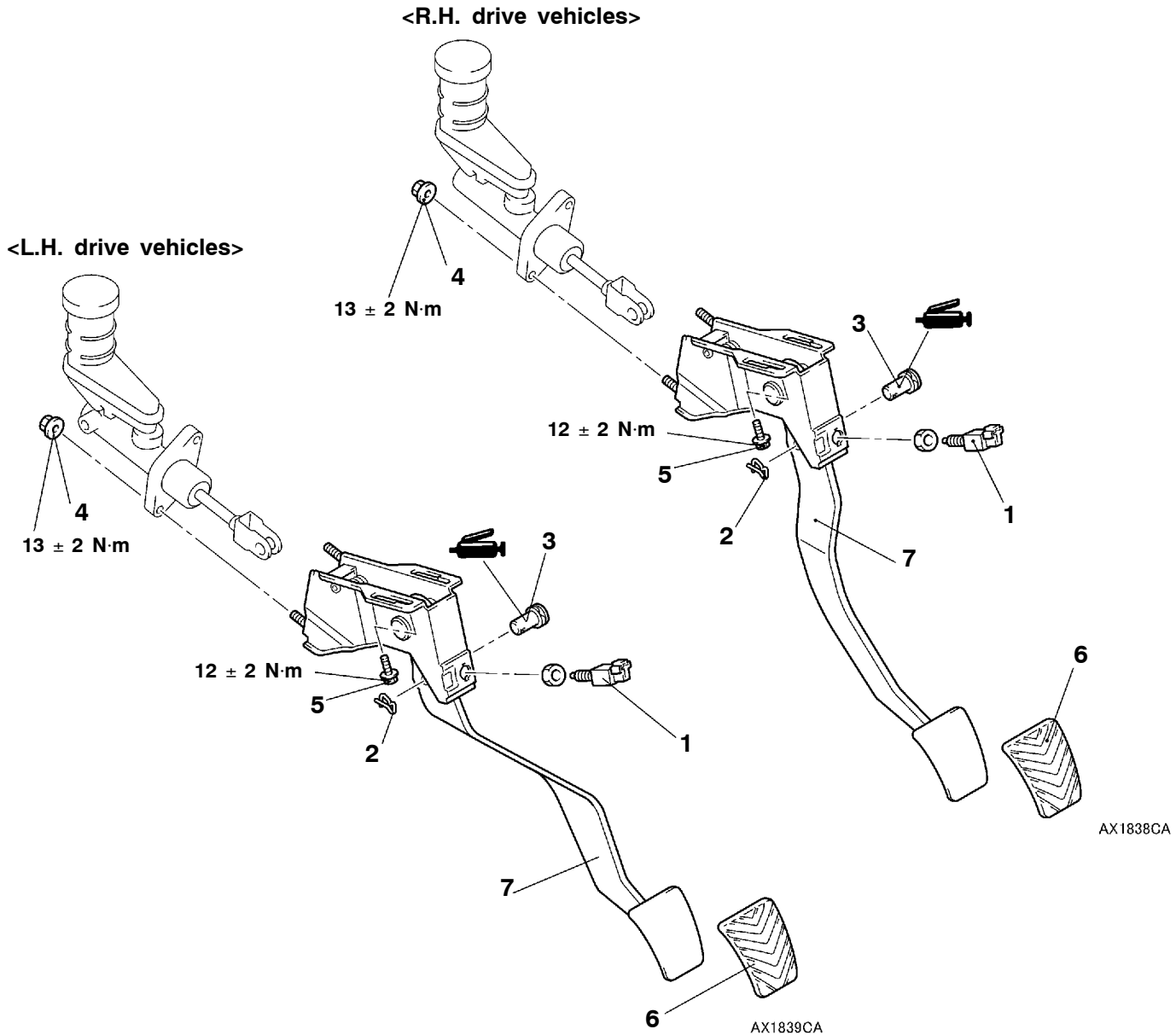
**Use the specified brake fluid. Avoid using a mixture of the specified fluid and other fluid.**

# CLUTCH PEDAL

## REMOVAL AND INSTALLATION

### Post-installation Operation

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



### Removal steps

- Stay A (Refer to GROUP 52A - Instrument Panel)
1. Clutch pedal position switch  
<vehicles with auto-cruise control>
  2. Snap pin

3. Clevis pin
4. Clutch master cylinder mounting nut
5. Master cylinder member mounting bolt
6. Pedal pad
7. Clutch pedal assembly

# CLUTCH CONTROL

## REMOVAL AND INSTALLATION

### Pre-removal Operation

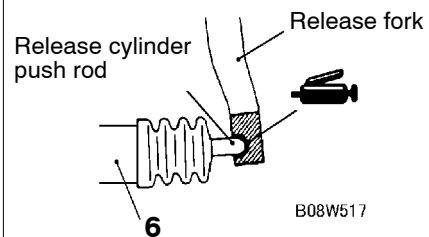
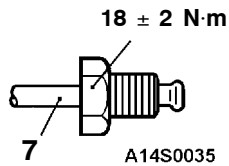
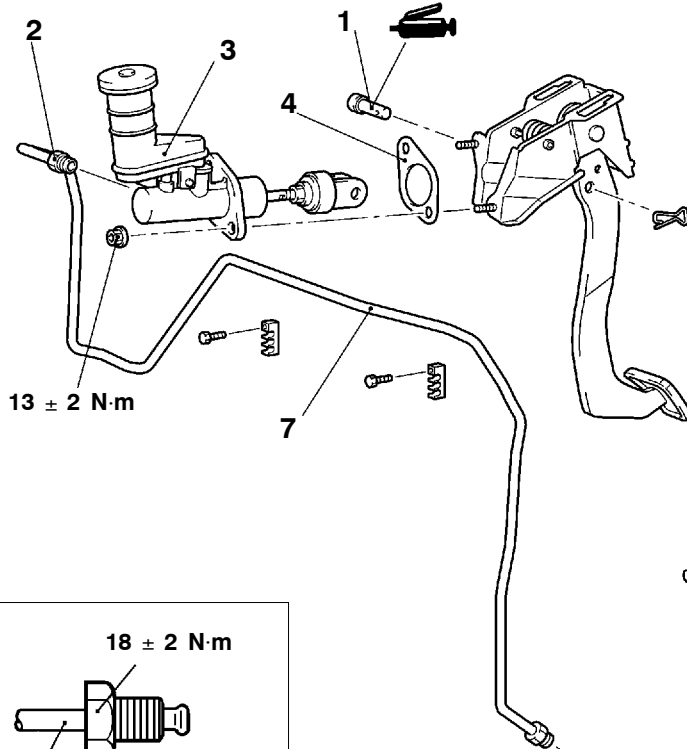
Clutch Fluid Draining

### Post-installation Operation

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

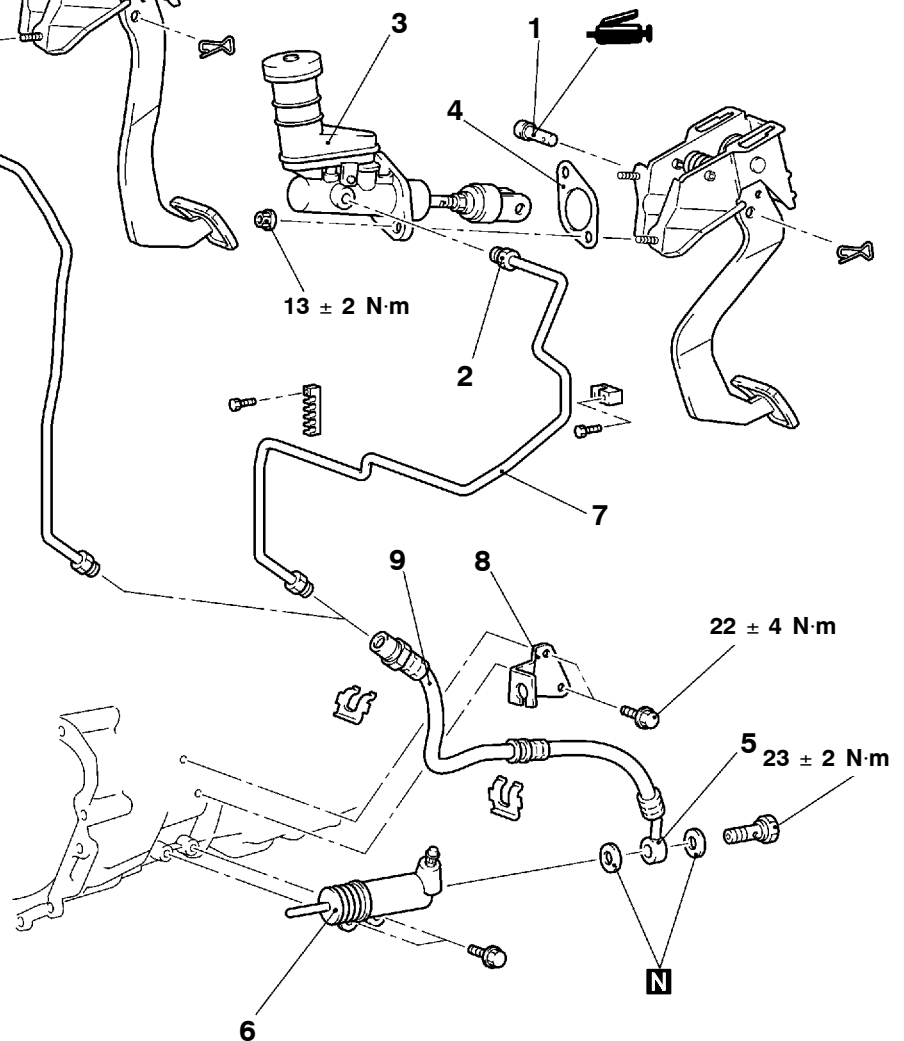
<6G74>

<R.H. drive vehicles>



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

<L.H. drive vehicles>



AX1841CA

### Clutch master cylinder assembly removal steps

1. Clevis pin
2. Clutch tube connection
3. Clutch master cylinder assembly
4. Sealer

### Clutch release cylinder assembly removal steps

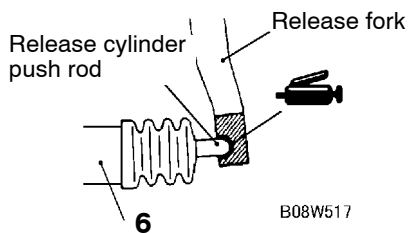
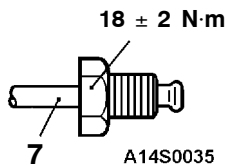
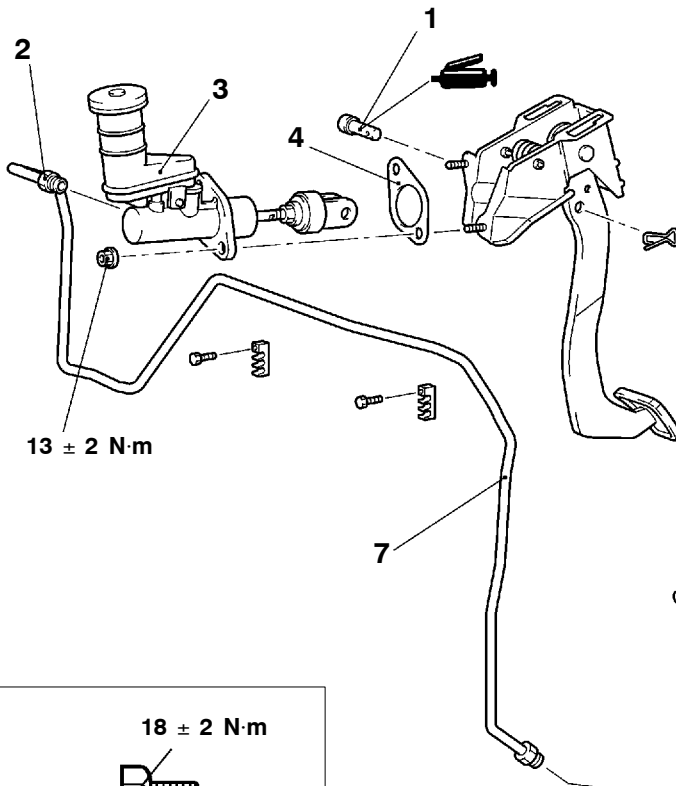
5. Clutch hose connection
6. Clutch release cylinder assembly

### Clutch line removal steps

7. Clutch tube
8. Bracket
9. Clutch hose

&lt;4D56&gt;

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

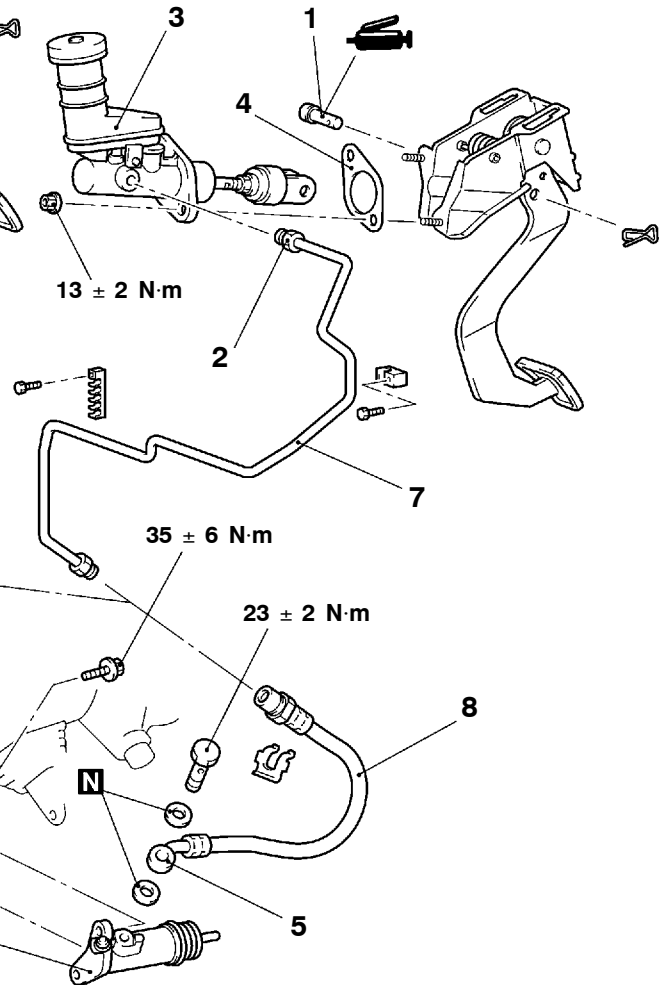


**Specified grease:**  
**MITSUBISHI genuine**  
**grease Part No. 0101011**

#### Clutch master cylinder assembly removal steps

1. Clevis pin
2. Clutch tube connection
3. Clutch master cylinder assembly
4. Sealer

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



AX1842CA

#### Clutch release cylinder assembly removal steps

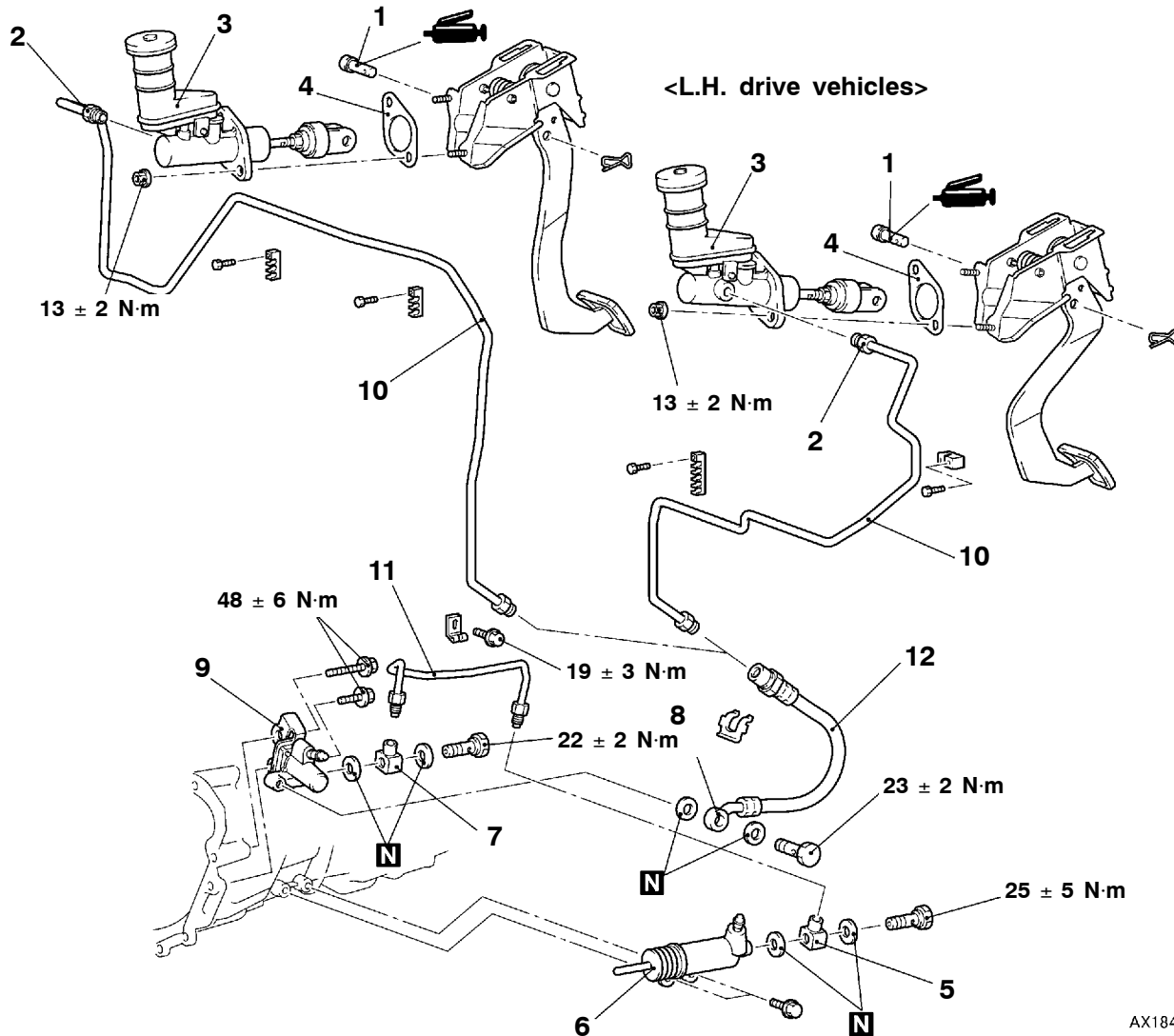
5. Clutch hose connection
6. Clutch release cylinder assembly

#### Clutch line removal steps

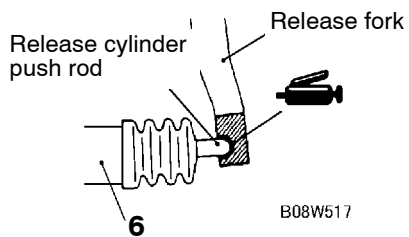
7. Clutch tube
8. Clutch hose

&lt;4M41&gt;

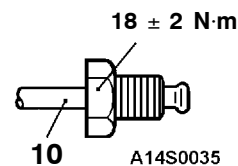
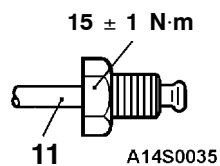
&lt;R.H. drive vehicles&gt;



AX1843CA



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



#### Clutch master cylinder assembly removal steps

1. Clevis pin
2. Clutch tube connection
3. Clutch master cylinder assembly
4. Sealer

#### Clutch release cylinder assembly removal steps

5. Union
6. Clutch release cylinder assembly

#### Clutch chamber assembly removal steps

7. Union
8. Clutch hose connection
9. Clutch chamber assembly

#### Clutch line removal steps

10. Clutch tube
11. Clutch tube
12. Clutch hose

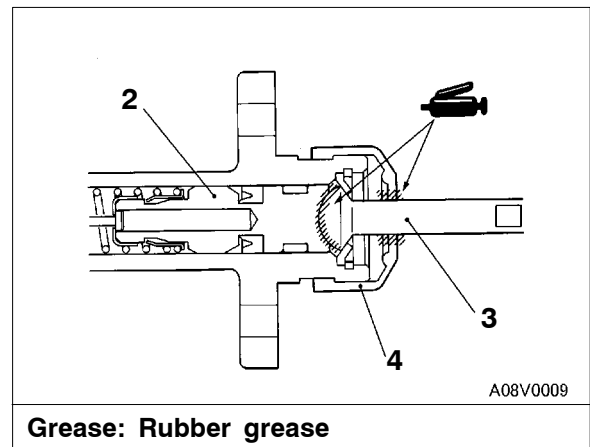
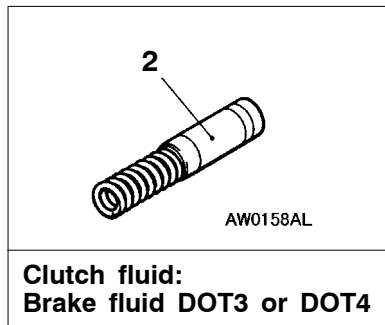
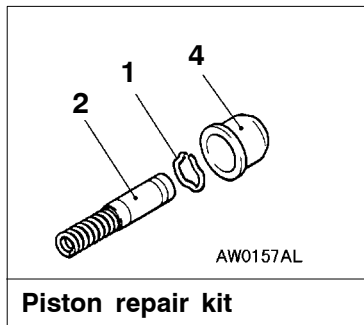
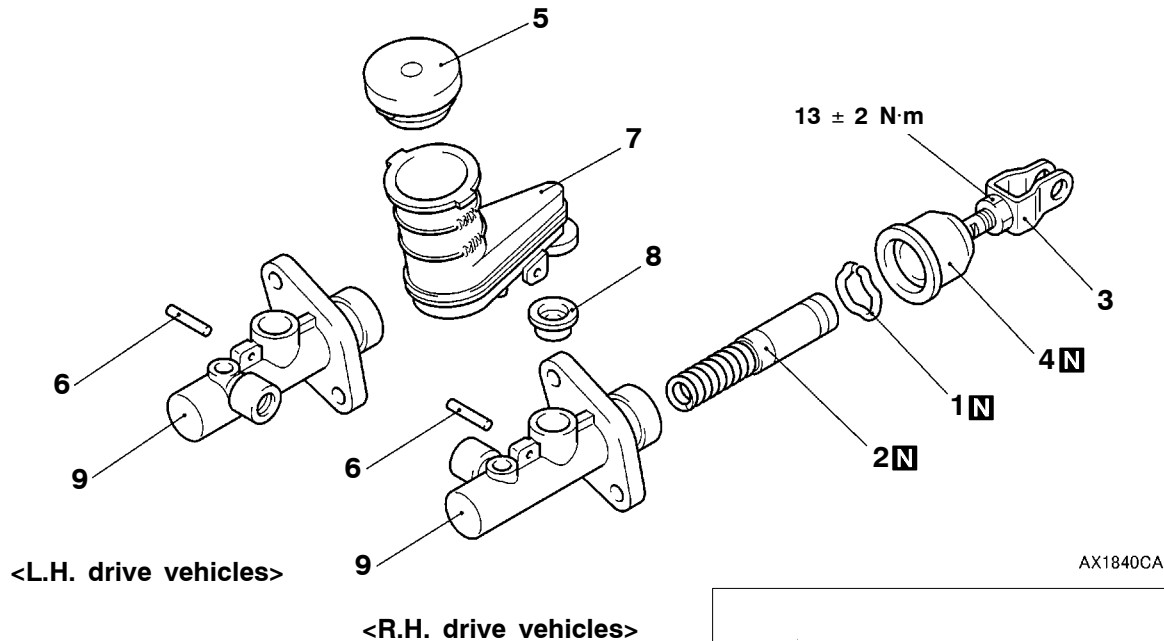


## DISASSEMBLY AND REASSEMBLY

### CLUTCH MASTER CYLINDER

#### Caution

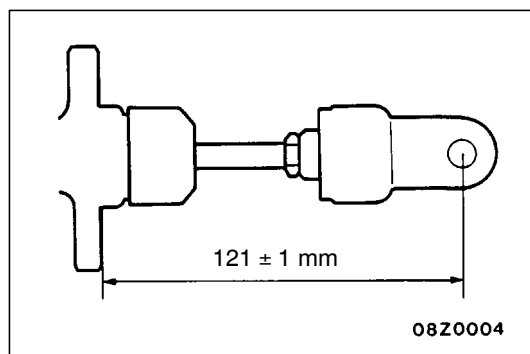
Do not disassemble piston assembly.



#### Disassembly steps

- A◄
1. Piston stopper ring
  2. Piston assembly
  3. Push rod assembly
  4. Boot
  5. Reservoir cap

6. Spring pin
7. Reservoir tank
8. Seal
9. Master cylinder body



## INSTALLATION SERVICE POINT

### ►A◄ PUSH ROD ASSEMBLY INSTALLATION

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

---

# Service Bulletins


Click on the applicable bookmark to select the Service Bulletin.

---



# SERVICE BULLETIN

SERVICE PUBLICATION & TRAINING  
INTERNATIONAL AFTER-SALES DEPARTMENT. MITSUBISHI MOTORS CORPORATION

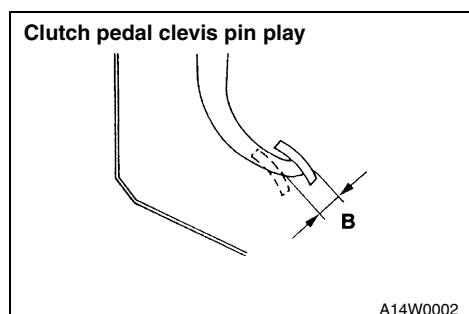
<b>SERVICE BULLETIN</b>		No.: MSB-02E21-001	
		Date: 2002-08-16	<b>&lt;Model&gt;</b> (EC)L300(P00) (EC)PAJERO SPORT/MONTERO SPORT (P80W, P90W) (EC)L200(K60-70) (EC)PAJERO PININ/MONTERO iO(H60-70) (EC)L400(PA0-PD0) (EC)PAJERO/ MONTERO(V60-70)
<b>Subject:</b> ADDITION OF PROCEDURE FOR BLEEDING CLUTCH RELEASE CYLINDER		<b>&lt;M/Y&gt;</b> 95-05	
<b>Group:</b> CLUTCH	<b>Draft No.:</b> 02AL019		
<b>INFORMATION</b>	INTERNATIONAL AFTER-SALES DEPARTMENT	 T. Inoue - Manager SERVICE PUBLICATION & TRAINING	

## 1. Description:

This Service Bulletin informs you of the additions that have been made to the Workshop Manuals listed below in connection with the procedure for bleeding the clutch release cylinder.

## 2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'95 L300 Workshop Manual	PWWE9404	(English)	21-4
	PWWG9405	(German)	
'99 PAJERO SPORT Workshop Manual	PWJE9812	(English)	21-3
'99 MONTERO SPORT Workshop Manual	PWJS9813	(Spanish)	
'99 PAJERO SPORT Workshop Manual	PWJF9814	(French)	
	PWJG9815	(German)	-
'02 PAJERO SPORT/MONTERO SPORT Workshop Manual CD-ROM	PWJT9818R-C	(English)	
	PWJT9818R-C	(Spanish)	
	PWJT9818R-C	(French)	
	PWJT9818R-C	(German)	
'97 L200 Workshop Manual	PWTE96E1	(English)	21-3
	PWTS96E1	(Spanish)	
	PWTF96E1	(French)	
	PWTG96E1	(German)	
'00 PAJERO PININ Workshop Manual	CKRE00E1	(English)	21-3
'00 MONTERO iO Workshop Manual	CKRS00E1	(Spanish)	
'00 PAJERO PININ Workshop Manual	CKRF00E1	(French)	
	CKRG00E1	(German)	
	CKRD00E1	(Dutch)	-
'00 PAJERO PININ/MONTERO iO Workshop Manual CD-ROM	CKRX00E1CD	(English)	
	CKRX00E1CD	(Spanish)	-
'00 PAJERO PININ Workshop Manual CD-ROM	CKRZ00E1CD	(French)	
	CKRZ00E1CD	(German)	
	CKRZ00E1CD	(Dutch)	
	CKRZ00E1CD	(Italian)	
'95 L400 Workshop Manual	PWWE9410	(English)	21-8
	PWWS9411	(Spanish)	
	PWWF9412	(French)	
	PWWG9413	(German)	
	PWWD9414	(Dutch)	
	PWWW9415	(Swedish)	
'01 PAJERO Workshop Manual Vol.1	PWJE0001(1/2)	(English)	21-3
'01 MONTERO Workshop Manual Vol.1	PWJS0002(1/2)	(Spanish)	
'02 PAJERO/MONTERO Workshop Manual CD-ROM	PWJT0008R-B	(English)	-
	PWJT0008R-B	(Spanish)	
	PWJT0008R-B	(French)	
	PWJT0008R-B	(German)	
'95 L300 Workshop Manual Vol.1	PWWE9409(1/2)	(English)	21-7
	PWWF9420(1/2)	(French)	



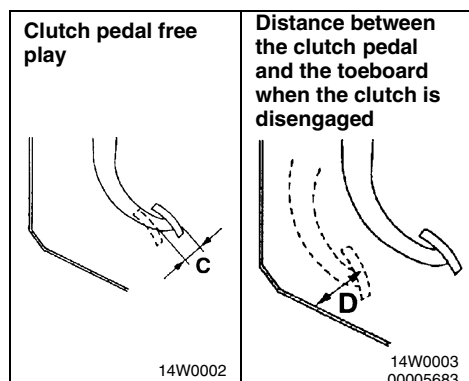
4. Measure the clutch pedal clevis pin play.

**Standard value (B): 1 – 3 mm**

5. If the clutch pedal play is not within the standard value, loosen the setting nut to adjust the play to the standard value.

#### Caution

**Do not push in the master cylinder push rod at this time, otherwise the clutch will not operate properly.**



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):**

**75 mm or more <L.H. drive vehicles>**

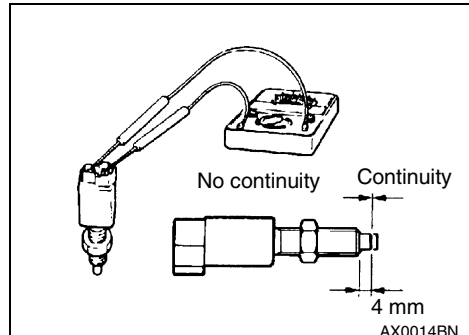
**70 mm or more <R.H. drive vehicles>**

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.

### CLUTCH PEDAL POSITION SWITCH CONTINUITY CHECK

- Adjust the clutch pedal. (Refer to P.21- 2.)
- Depress the clutch pedal, and check the continuity between the terminals.



Measurement Conditions	Terminal No.	Terminal No.
	1	2
Clutch pedal depressed	○	○
Clutch pedal not depressed		

### BLEEDING

**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.**

<Added>

### NOTE

If the clutch pedal feels spongy when depressed, the clutch release cylinder may have air trapped inside and should be bled of the air. When bleeding the cylinder, jack up the front of the vehicle (with a release cylinder having the breather at its front end) or the rear of the vehicle (with a cylinder having the breather at its rear end).