CLUTCH

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CLUTCH CONTROL

CLUTCH

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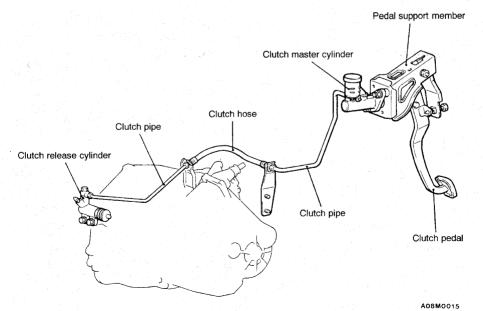
GENERAL INFORMATION

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

Items	* \$200.	Specifications
Clutch operating method		Hydraulic type
Clutch disc type		Single dry disc type
Clutch disc facing diameter O.D.×I.D. mm (in.)	1.5L Engine	200×130 (7.8×5.1)
 A service of the property of the	1.8L Engine	215×140 (8.4×5.5)
Clutch cover type		Diaphragm spring strap drive type
Clutch cover setting load N (lbs.)	17 9	4,600 (1,014)
Clutch release cylinder I.D. mm (in.)		20.64 (13/16)
Clutch master cylinder I.D. mm (in.)		15.87 (10/16)

CONSTRUCTION DIAGRAM



SERVICE SPECIFICATIONS

Items Standard value Clutch pedal height mm (in.) 163.5 - 166.5 (6.43 - 6.55) Clutch pedal clevis pin play mm (in.) 1 - 3(.04 - .12)Clutch pedal free play mm (in.) 6 - 13(.24 - .51)Distance between the clutch pedal and the firewall when the clutch is disengaged mm (in.) 70 (2.7) or more

LUBRICANTS

Items	Specified lubricants	Quantity
Clutch fluid	Brake fluid DOT3 or DOT4	As required
Push rod assembly	Rubber grease	As required
Boot		94.1
Release cylinder push rod	MITSUBISHI genuine grease Part No. 0101011	As required

	Part No. 0101011	
TROUBLESHO	OOTING	21100070015
Symptom	Probable cause	Remedy
Clutch slips	Insufficient clutch pedal play	Adjust
	Excessive wear of clutch disc facing	Replace
	Hardening of clutch disc facing, or adhesion of oil	Replace
	Clutch release fork catching	Repair or replace parts
	Weak or damaged diaphragm spring	Replace
	Clogging of hydraulic system	Repair or replace parts

Gear shift malfunction

Excessive clutch pedal play Distorted clutch disc, excessive oscillation Clutch cover assembly worn Clutch disc spline worn or corroded

Damaged pressure plate or flywheel

Leakage, air mix or clogging of hydraulic system

Clutch disc facing peeling

Clutch release bearing worn

Adjust Replace

Replace

Replace

Replace

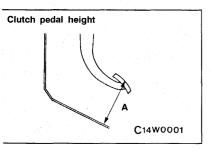
Replace

Repair or replace parts

Replace

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Symptom	Probable cause	Remedy
Clutch noise	Insufficient clutch pedal play	Adjust
	Improper installation of clutch cover assembly	Repair or replace parts
	Excessive wear of clutch disc facing	Replace
	Clutch release fork catching	Repair or replace parts
	Clutch release bearing worn	Replace
	Weak or damaged torsion spring	Replace
	Damaged pilot bushing	Replace
	Insufficient lubrication of bearing sleeve sliding surface	Repair
Clutch pedal feels	Insufficient lubrication of clutch pedal	Repair
heavy"	Insufficient lubrication of clutch disc spline	Repair
	Clutch release fork catching	Repair or replace parts
	Insufficient lubrication of bearing sleeve sliding surface	Repair
Worn or damaged clutch disc facing	Worn or damaged clutch disc facing	Replace
	Oil adhered to clutch disc facing	Replace
	Uneven height of diaphragm spring	Repair or replace parts
	Weak or damaged torsion spring	Replace
	Damaged pressure plate or flywheel	Replace



Loose or damaged mounting

ON-VEHICLE SERVICE

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CLUTCH PEDAL CHECK AND ADJUSTMENT

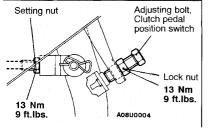
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Replace or tighten mounting

- I. Turn back the carpet, etc. under the clutch pedal.
- 2. Measure the clutch pedal height.

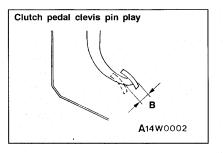
Standard value (A):

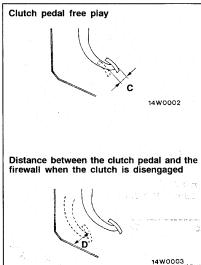
163.5 - 166.5 mm (6.43 - 6.55 in.)



 If the height of the clutch pedal is not within the standard value, loosen the lock nut and adjust the pedal height to the standard value using the adjusting bolt (Vehicles without auto-cruise control system) or clutch pedal position switch (Vehicles with auto-cruise control system) or push rod.

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





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- Measure the clutch pedal play.
 - Standard value (B): 1 3 mm (.04 .12 in.)
 - If the clutch pedal play is not within the standard value, loosen the setting nut and move the push rod to adjust.
- Do not push in the master cylinder push rod at this time.
- 6. After completing the adjustments, confirm that the clutch
 - the pedal pad) and the firewall when the clutch is disengaged are within the standard value ranges. Standard value (C; including the clevis pin play):

pedal free play (measured at the face of the pedal pad) and the distance between the clutch pedal (the face of

6-13 mm (.24 - .51 in.)

- Standard value (D): 70 mm (2.7 in.) or more 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, release cylinder or clutch. Bleed the air, or disassemble and inspect the master cylinder, release cylinder or clutch.

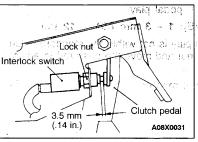
Put back the carpet, etc.

INTERLOCK SWITCH OPERATING CHECK

- Lock the front wheels, apply the parking brake and put the shift lever in the 5th gear. 2. After normally adjusting the clutch pedal, check the inter
 - lock switch operation as follows:
 - (1) The engine should not start even if the ignition switch is turned to "START" position unless the clutch pedal is depressed. If the engine should start, check the
 - (2) The engine should start after the clutch has completely disengaged while the clutch pedal is depressed with the ignition switch turned to "START" position. If the engine should start before the clutch is

interlock switch and the harness.

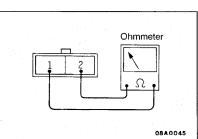
disengaged or the engine does not start even if the clutch pedal is depressed, adjust the interlock switch.



INTERLOCK SWITCH CHECK AND ADJUSTMENT

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abec1a Adjust the clutch pedal. (Refer to P.21A-5.) 2. Check to be sure that the interlock switch is as shown in the illustration when the clutch pedal is depressed



at its full stroke [143 mm (5.6 in.)]. If necessary, loosen the lock nut and adjust.

Connect an ohmmeter to the interlock switch connector. and then check for continuity when the clutch pedal is

Pedal position	Terminal No.	
	1	2
fully depressed		
released	0	

fully depressed and when it is released outward.

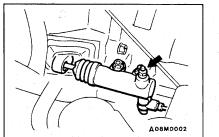
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CLUTCH PEDAL POSITION SWITCH CONTINUITY CHECK

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- Adjust the clutch pedal. (Refer to P.21A-5.)
- Operate the clutch pedal, and check continuity between the terminals.

Terminal No.	
1	2
0	
	1



BLEEDING

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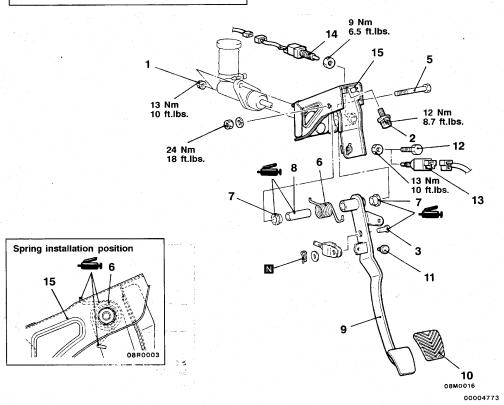
Specified fluid: Brake fluid DOT 3 or DOT 4 Caution

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

CLUTCH PEDAL

REMOVAL AND INSTALLATION

Post-installation Operation Clutch Pedal Adjustment (Refer to P.21A-5.)



Removal steps

- 1. Clutch master cylinder installation
- 2. Master cylinder member bracket installation nut
- 3. Clevis pin 4. Pedal support member and clutch
- pedal assembly
- 5. Bolt
- 6. Return spring
- 7. Bushing

- 8. Pipe
- Clutch pedal
- 10. Pedal pad 11. Stopper
- 12. Adjusting bolt 13. Clutch switch <Vehicles with
- auto-cruise control system> 14. Interlock switch
- 15. 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.

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CLUTCH CONTROL

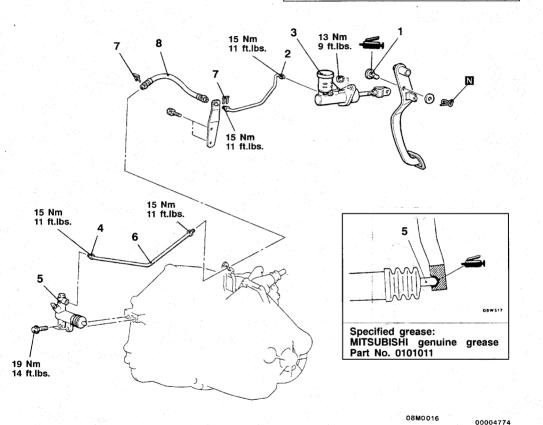
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REMOVAL AND INSTALLATION

- Pre-removal Operation Clutch Fluid Draining
- Air Cleaner Removal

Post-installation Operation Air Cleaner Installation

- Clutch Fluid Supplying
- Clutch Line Bleeding (Refer to P.21A-7.)
- Clutch Pedal Adjustment (Refer to P.21A-5.)



Clutch master cylinder removal

6. Clutch pipe 7. Hose clip

Clutch line removal steps

1. Clevis pin 2. Clutch pipe connection

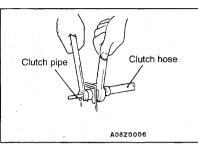
steps

8. Clutch hose

3. Clutch master cylinder Clutch release cylinder removal

- steps 4. Clutch pipe connection
- 5. Clutch release cylinder

Clutch pipe



REMOVAL SERVICE POINTS **■AD CLUTCH PIPE/CLUTCH HOSE DISCONNECTION**

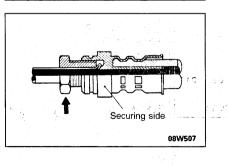
1. Secure the nut on the clutch hose and loosen the flare nut on the clutch pipe.

Hose clip

Clutch hose

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2. Remove the hose clip from the clutch hose to remove clutch hose from bracket



INSTALLATION SERVICE POINT ►A CLUTCH HOSE/CLUTCH PIPE INSTALLATION

Temporarily tighten the clutch pipe flare nut by hand,

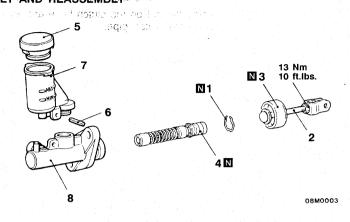
- and then tighten it to the specified torque. Being careful that the clutch hose does not become twisted.
- After tightening the clutch pipe flare nut and eye bolt, check to be sure there is no leakage of the clutch fluid.

INSPECTION

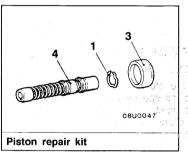
- Check the pedal shaft bushing for wear.
- Check the pedal arm for bend or torsion. Check the master cylinder or clutch hose for fluid leakage.
 - Check the clutch hose or pipe for cracks or clogging.

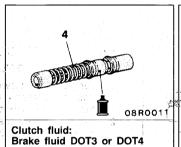
CLUTCH MASTER CYLINDER DISASSEMBLY AND REASSEMBLY

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Disassembly steps

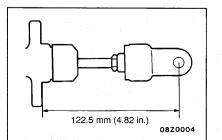
- ►A◀
- 1. Piston stopper ring
- Push rod assembly
 Boot
- 4. Piston assembly
- 5. Reservoir cap
- 6. Spring pin

- 16 M
- 7. Reservoir tank

SECHERO

8. Clutch master cylinder body

Caution Do not disassemble the piston assembly.



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 the clutch pedal easier.

Check the clutch pipe connection for clogging.