

CLUTCH

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CAUTION

When servicing clutch assemblies or components for General Export and Australia, do NOT create dust by sanding, grinding or by cleaning clutch parts with a dry brush or with compressed air. A WATER DAMPENED CLOTH SHOULD BE USED. The clutch disc contains "Asbestos Fibers" which can become airborne if dust is created during service operations. Breathing dust containing "Asbestos Fibers" may cause serious bodily harm.

SPECIFICATIONS

GENERAL SPECIFICATIONS

E21CA-

Items	4G13, 4G16, 4G15-carburettor	4G15-MPI, 4G61, 4G67 ^{*1} , 4G92, 4D65 (except TAXI), 4D68	4G37, 4G67 ^{*2} , 4G93, 4D65 (TAXI)
Clutch operating method	Cable type	Hydraulic type	Hydraulic type
Clutch disc*			
Type	Single dry disc type	Single dry disc type	Single dry disc type
Facing diameter O.D. x I.D. mm (in.)	184 x 127 (7.2 x 5.0)	200 x 130 (7.9 x 5.1)	215 x 140 (8.5 x 5.5)
Clutch cover assembly	Diaphragm spring strap drive type		
Type			
Clutch release cylinder I.D. mm (in.)	—	20.64 (13/16)	20.64 (13/16)
Clutch master cylinder I.D. mm (in.)	—	15.87 (10/16)	15.87 (10/16)

NOTE

*: Non-asbestos discs on vehicles for Europe

*¹: Vehicles built up to May 1990*²: Vehicles built from June 1990

SERVICE SPECIFICATIONS

E21CB-

Items	Cable type	Hydraulic type
Standard value		
Clutch pedal height mm (in.)		
L.H. drive vehicles	168 – 171 (6.61 – 6.73)	170 – 175 (6.70 – 6.89) ^{*1} , 168 – 171 (6.61 – 6.73) ^{*2}
R.H. drive vehicles	170 – 173 (6.70 – 6.81)	170 – 172 (6.70 – 6.77) ^{*1} , 170 – 173 (6.70 – 6.81) ^{*2}
Clutch pedal clevis pin play mm (in.)	—	1 – 3 (0.04 – 0.12)
Clutch pedal free play mm (in.)		
L.H. drive vehicles	20 – 30 (0.80 – 1.18)	6 – 13 (0.24 – 0.51)
R.H. drive vehicles	20 – 30 (0.80 – 1.18)	6 – 13 (0.24 – 0.51)
Distance between the clutch pedal and the toeboard when the clutch is disengaged mm (in.)	80 (3.2) or more	70 (2.8) or more
Limit		
Facing rivet sink mm (in.)	0.3 (0.012)	0.3 (0.012)
Diaphragm spring end height difference mm (in.)	0.5 (0.02)	0.5 (0.02)

NOTE

*¹: Vehicles built up to April 1989*²: Vehicles built from May 1989

TORQUE SPECIFICATIONS

E21CC--

Items	Nm	kgm	ft.lbs.
Clutch pedal to clutch pedal support bracket	19 – 28	1.9 – 2.8	14 – 20
Clutch pedal support bracket to toeboard	17 – 21	1.7 – 2.1	12 – 15
Master cylinder to toeboard			
L.H. drive vehicles	9 – 14	0.9 – 1.4	7 – 10
R.H. drive vehicles	10 – 15	1.0 – 1.5	7 – 11
Clutch tube flare nut	13 – 17	1.3 – 1.7	9 – 12
Clutch tube bracket	4 – 6	4.0 – 6.0	3 – 4
Reservoir band	5 – 7	0.5 – 0.7	4 – 5
Clutch release cylinder	15 – 22	1.5 – 2.2	11 – 16
Clutch release cylinder to union bolt	20 – 25	2.0 – 2.5	14 – 18
Clutch cover assembly	15 – 22	1.5 – 2.2	11 – 16
Clutch release bearing fulcrum	30 – 42	3.0 – 4.2	22 – 30

LUBRICANTS

E21CD--

Items	Specified lubricants	Quantity
Inner surface of clutch disc spline, clutch release cylinder, release fork and release bearing	MITSUBISHI genuine grease Part No. 0101011	As required
Inner surface of clutch master cylinder and outer circumference of piston assembly	Brake fluid SAE J1703 (DOT3)	As required

SPECIAL TOOLS

E21DA--

Tool	Number	Name	Use
	MD998126	Clutch disc centre guide	Clutch disc centre hole alignment
	MD998807	Lock pin remover	Removal of lock pin for clutch release fork
	MD998245	Lock pin installer	Installation of lock pin for clutch release fork

SERVICE ADJUSTMENT PROCEDURES

CLUTCH PEDAL INSPECTION AND ADJUSTMENT
(CABLE TYPE)

E21FBAEa

1. Measure the clutch pedal free play.

Standard value (A): 20 – 30 mm (0.80 – 1.18 in.)

2. If the clutch pedal free play is not within the standard value, turn the outer cable adjusting nut at the toeboard and adjust the clutch cable free play to within the range.

3. After making the adjustment, depress the clutch pedal several times and check the clutch pedal to toeboard clearance is within the standard value range when the clutch is disengaged.

Standard value (B): 80 mm (3.2 in.) or more

4. If the clutch pedal to floorboard clearance is less than the standard value, defective clutch assembly is suspected. Repair the clutch assembly. (Refer to ENGINE & TRANSMISSION MANUAL.)

NOTE

On vehicles with an uphill keeper, the uphill keeper must also be adjusted when the clutch cable is adjusted. (Refer to GROUP 35 – Service Adjustment Procedures.)

CLUTCH PEDAL INSPECTION AND ADJUSTMENT
(HYDRAULIC TYPE)

E21FAAJ

1. Measure the clutch pedal height (from the face of the pedal pad to the toeboard) and the clutch pedal clevis pin play (measured at the face of the pedal pad).

Standard value (A):

L.H. drive vehicles

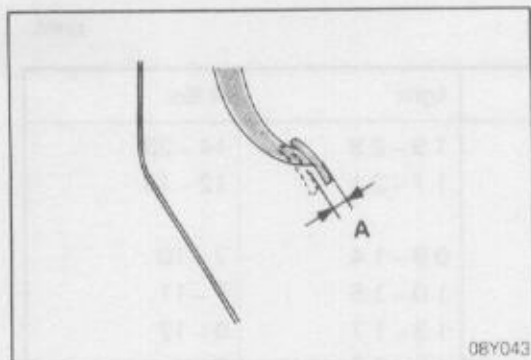
170 – 175 mm (6.70 – 6.89 in.)

R.H. drive vehicles

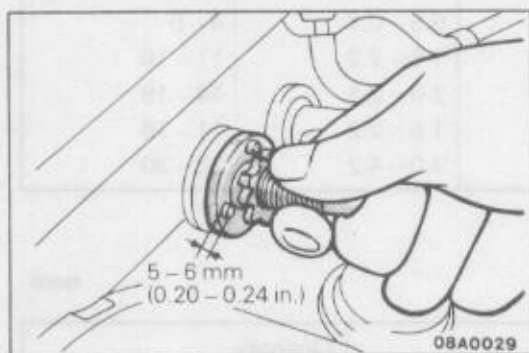
170 – 172 mm (6.70 – 6.77 in.)

Standard value (B):

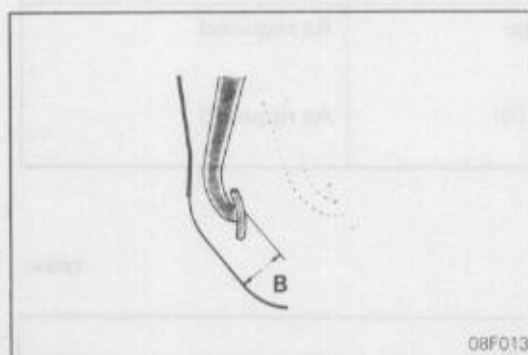
1 – 3 mm (0.04 – 0.12 in.)



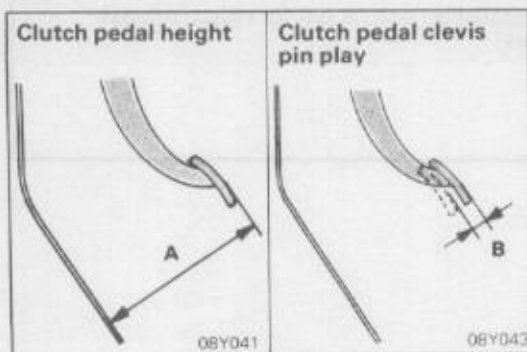
08Y043



08A0029

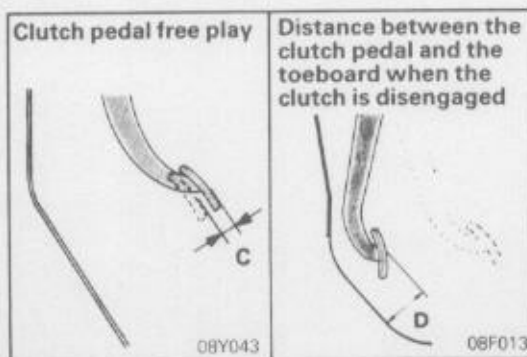
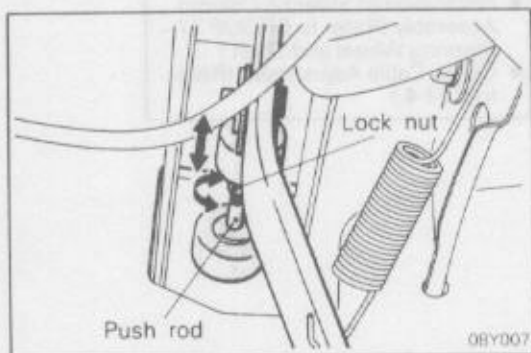
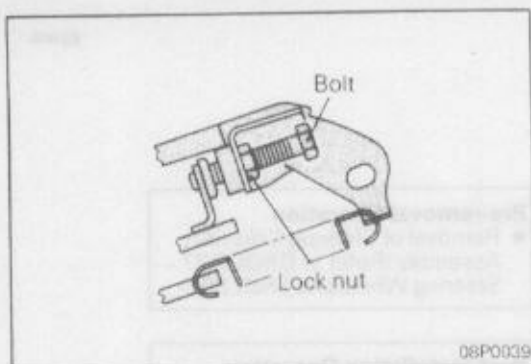


08F013



08Y041

08Y043



2. If either the clutch pedal height or the clutch pedal clevis pin play are not within the standard value range, adjust as follows:

- (1) Turn and adjust the bolt so that the pedal height is the standard value, and then secure by tightening the lock nut.

NOTE

When the pedal height is lower than the standard value, loosen the bolt, and then turn the push rod to make the adjustment. After the adjustment, tighten the bolt until it reaches the pedal stopper, and then lock with the lock nut.

- (2) Turn the push rod to adjust the clutch pedal clevis pin play to agree with the standard value and then secure the push rod with the lock nut.

Caution

When adjusting the clutch pedal height or the clutch pedal clevis pin play, be careful not to push the push rod toward the master cylinder.

3. 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):

L.H. drive vehicles

6 – 14 mm (0.24 – 0.55 in.)

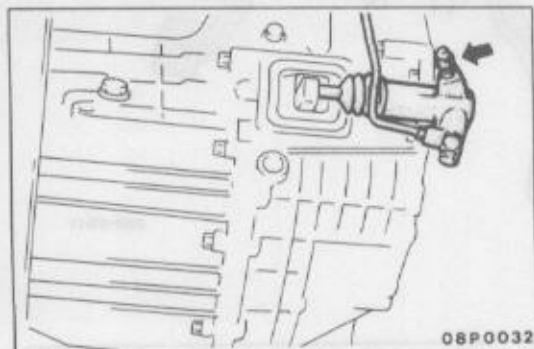
R.H. drive vehicles

6 – 13 mm (0.24 – 0.51 in.)

Standard value (D):

70 mm (2.8 in.) or more

4. 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

E21FEABa

Whenever the clutch tube, the clutch hose, and/or the clutch master cylinder have been removed, or if the clutch pedal is spongy, bleed the system.

Specified fluid: SAE J1703 (DOT3)

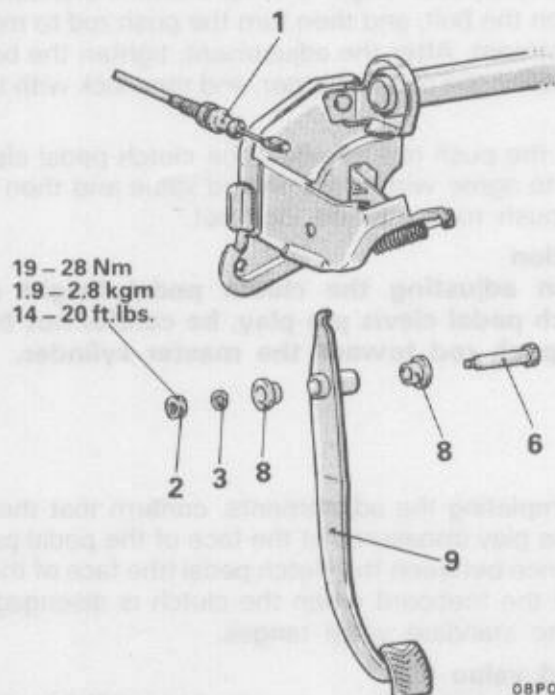
Caution

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

CLUTCH PEDAL

REMOVAL AND INSTALLATION (CABLE TYPE)

L.H. drive vehicles



Pre-removal Operation

- Removal of Steering Column Assembly (Refer to GROUP 37 – Steering Wheel and Shaft.)

Post-installation Operation

- Installation of Steering Column Assembly (Refer to GROUP 37 – Steering Wheel and Shaft.)
- Clutch Cable Adjustment (Refer to P.21-4.)

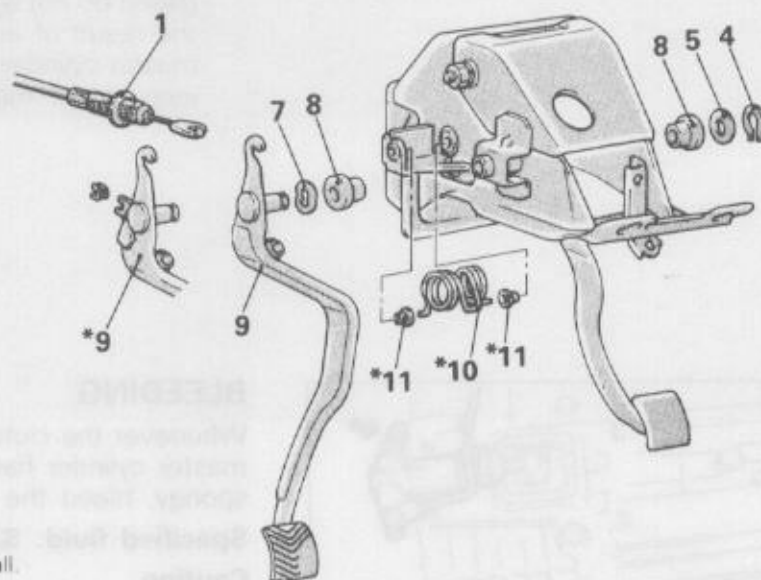
R.H. drive vehicles

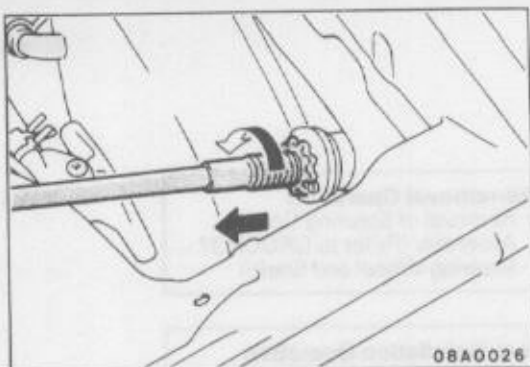
Removal steps

- ◆◆ 1. Connection for clutch cable
- ◆◆ 2. Nut
- ◆◆ 3. Spring washer
- ◆◆ 4. Snap ring
- ◆◆ 5. Plain washer
- ◆◆ 6. Clutch pedal bolt
- ◆◆ 7. Wave washer
- ◆◆ 8. Bushing
- ◆◆ 9. Clutch pedal
- ◆◆ 10. Turn-over spring
- ◆◆ 11. Bushing

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆: Refer to "Service Points of Removal".
- (3) ◆◆: Refer to "Service Points of Installation".
- (4) *: Parts for vehicles with uphill keeper



**SERVICE POINT OF REMOVAL**

E21PBAD

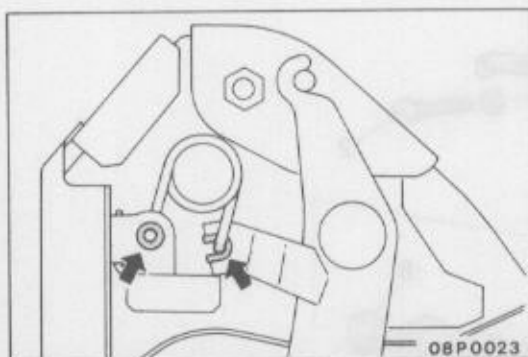
1. DISCONNECTION OF CLUTCH CABLE

- (1) Pull out the cable and turn the adjusting nut counter-clockwise to increase the cable play.
- (2) Disconnect the cable from the clutch lever.

INSPECTION

E21PCAE

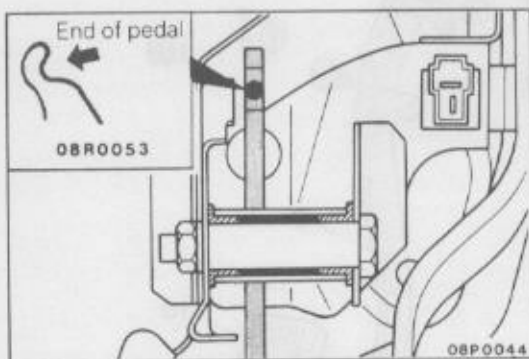
- Check the cable movement for roughness.
- Check the outer cable for damage.
- Check the bushings for wear.
- Check the clutch pedal for bend or torsion.
- Check the pedal pad for damage or wear.

**SERVICE POINTS OF INSTALLATION**

E21PDAN

11. APPLICATION OF GREASE TO BUSHINGS / 10. TURN-OVER SPRING <VEHICLES WITH UPHILL KEEPER>

Apply multipurpose grease to the turn-over spring and bushings.

**9. INSTALLATION OF CLUTCH PEDAL / 8. BUSHING**

Apply multipurpose grease to the clutch pedal, the bushings and end of the pedal as illustrated.

REMOVAL AND INSTALLATION (HYDRAULIC TYPE)

E21PA-A

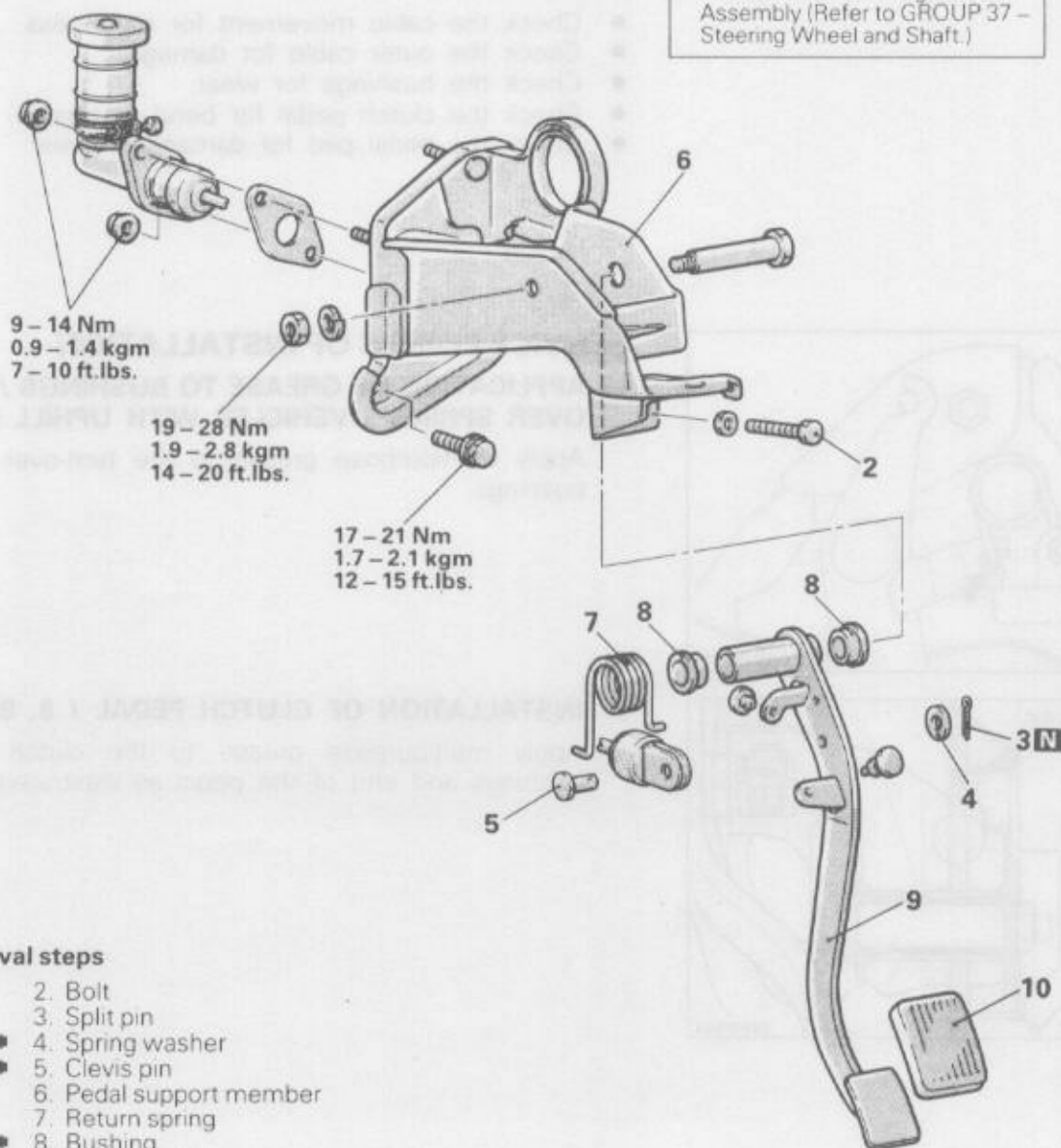
L.H. drive vehicles

Pre-removal Operation

- Removal of Steering Column Assembly (Refer to GROUP 37 – Steering Wheel and Shaft.)

Post-installation Operation

- Adjustment of Clutch Pedal (Refer to P.21-4.)
- Installation of Steering Column Assembly (Refer to GROUP 37 – Steering Wheel and Shaft.)

**Removal steps**

2. Bolt
3. Split pin
- ♦♦ 4. Spring washer
- ♦♦ 5. Clevis pin
6. Pedal support member
7. Return spring
- ♦♦ 8. Bushing
9. Clutch pedal
10. Pedal pad

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ♦♦ Refer to "Service Points of Installation".
- (3) **N** Non-reusable parts

08P0046

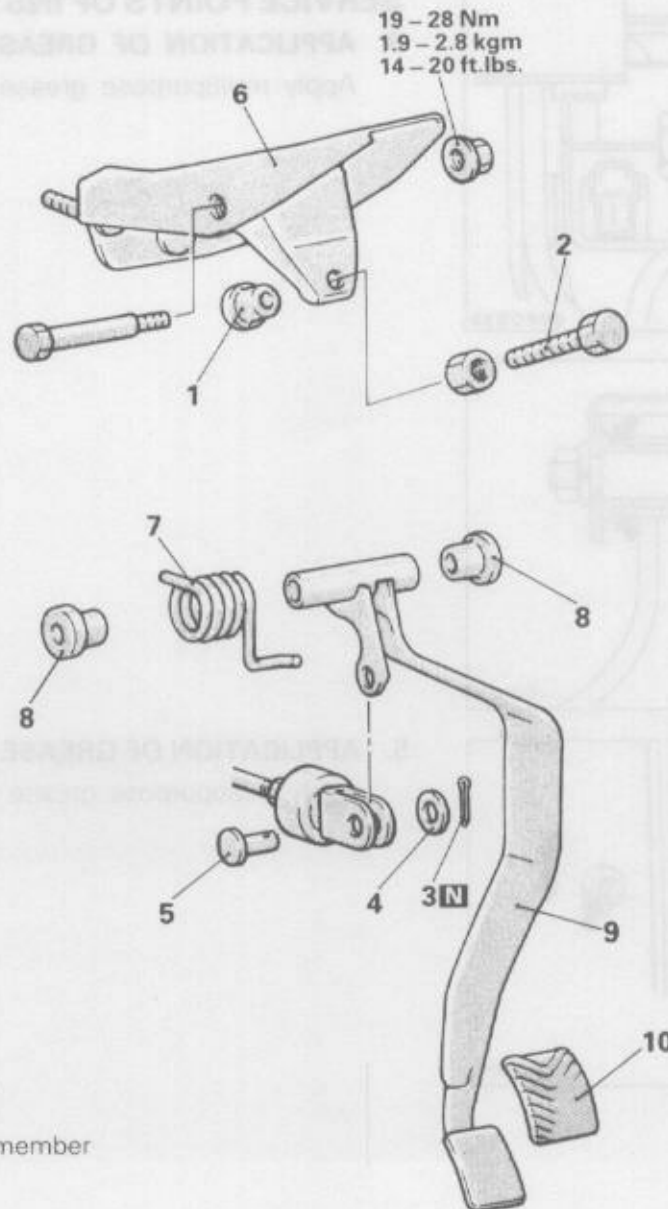
R.H. drive vehicles

Pre-removal Operation

- Removal of Steering Column Assembly (Refer to GROUP 37 – Steering Wheel and Shaft.)

Post-installation Operation

- Adjustment of Clutch Pedal (Refer to P.21-4.)
- Installation of Steering Column Assembly (Refer to GROUP 37 – Steering Wheel and Shaft.)

**Removal steps**

1. Cap
2. Bolt
3. Split pin
- ◆◆ 4. Spring washer
- ◆◆ 5. Clevis pin
6. Pedal support member
7. Return spring
- ◆◆ 8. Bushing
9. Clutch pedal
10. Pedal pad

NOTE

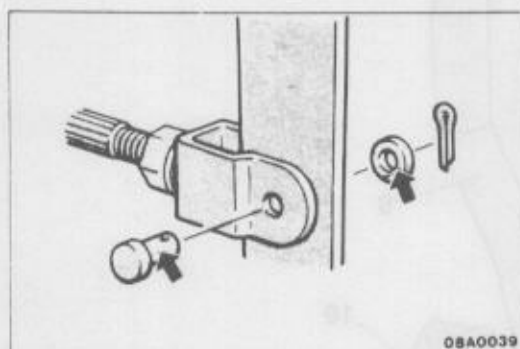
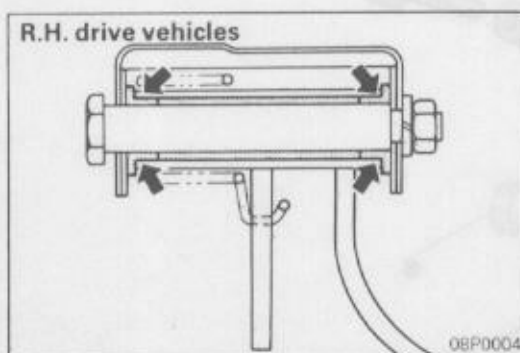
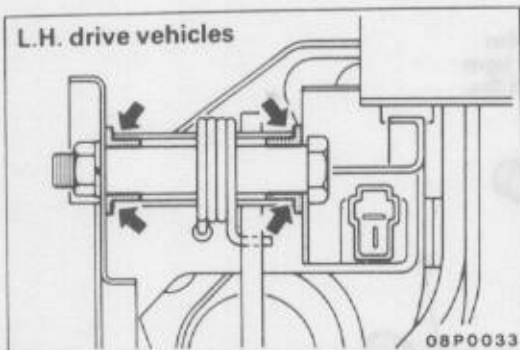
- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆: Refer to "Service Points of Installation".
- (3) **N**: Non-reusable parts

08P0047

INSPECTION

E21PCAB

- 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.

**SERVICE POINTS OF INSTALLATION**

E21PDAM

8. APPLICATION OF GREASE TO BUSHING

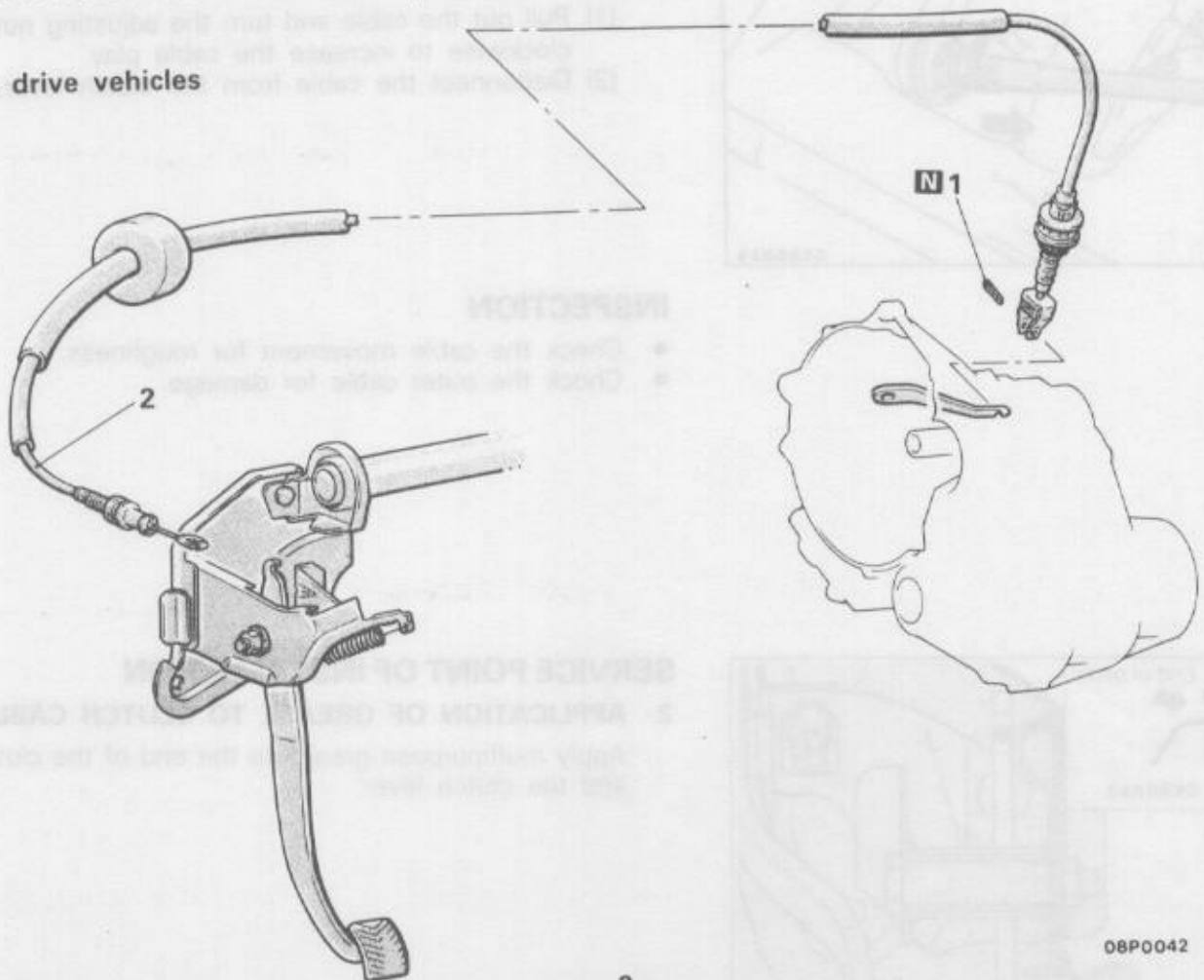
Apply multipurpose grease to the bushings.

5. APPLICATION OF GREASE TO CLEVIS PIN / 4. WASHER

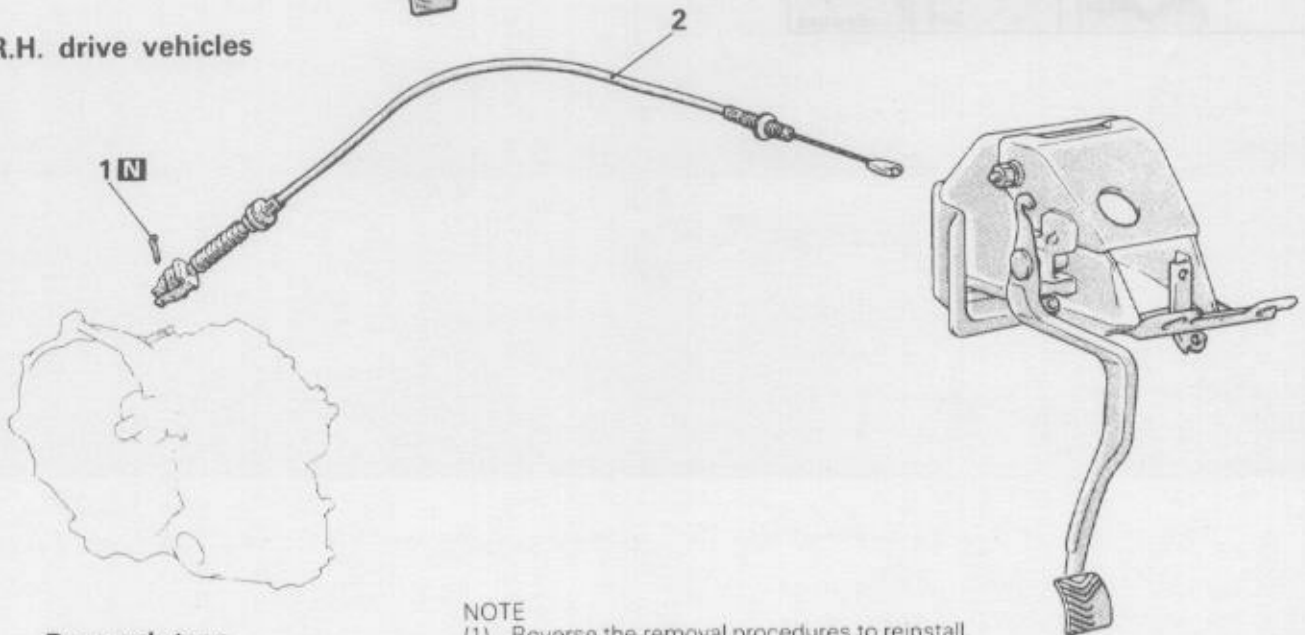
Apply multipurpose grease to the clevis pin and washer.

CLUTCH CONTROL**REMOVAL AND INSTALLATION (CABLE TYPE)**

E21JA--

L.H. drive vehicles

08P0042

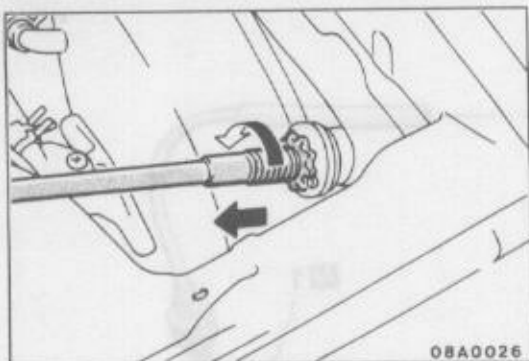
R.H. drive vehicles**Removal steps**

- ◆◆◆◆ 1. Split pin
◆◆◆◆ 2. Clutch cable

NOTE

- (1) Reverse the removal procedures to reinstall.
(2) ◆◆◆◆ Refer to "Service Points of Removal".
(3) ◆◆◆◆ Refer to "Service Points of Installation".
(4) **N** Non-reusable parts

08P0010

**SERVICE POINT OF REMOVAL**

E21P8AD1

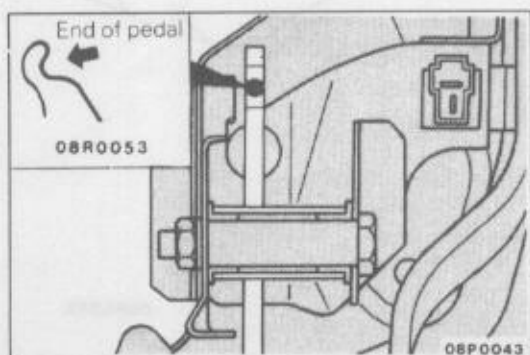
2. DISCONNECTION OF CLUTCH CABLE

- (1) Pull out the cable and turn the adjusting nut counter-clockwise to increase the cable play.
- (2) Disconnect the cable from the clutch lever.

INSPECTION

E21JCAD

- Check the cable movement for roughness.
- Check the outer cable for damage.

**SERVICE POINT OF INSTALLATION**

E21JDAD

2. APPLICATION OF GREASE TO CLUTCH CABLE

Apply multipurpose grease to the end of the clutch cable and the clutch lever.

REMOVAL AND INSTALLATION (HYDRAULIC TYPE)

E21JA-A

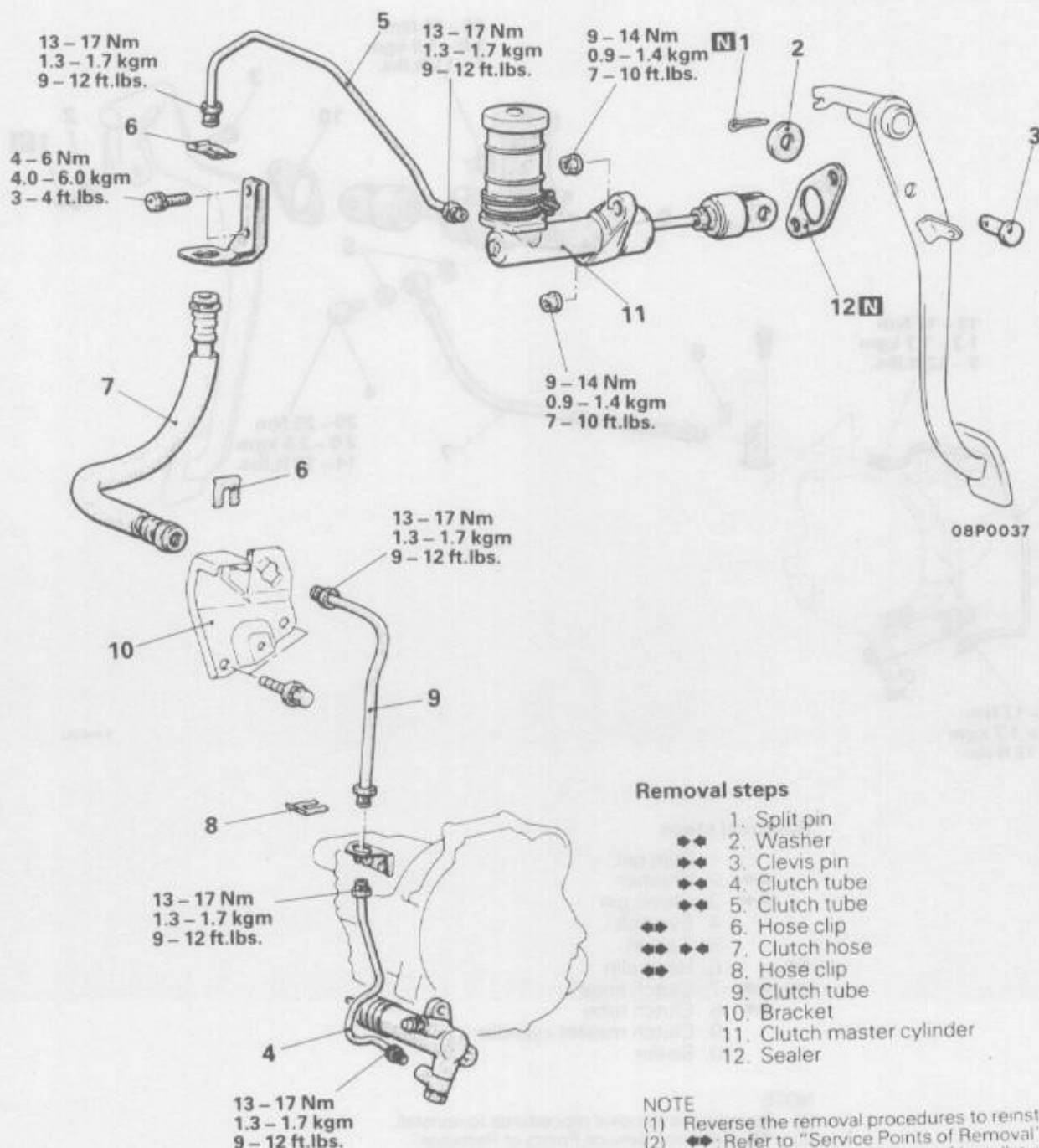
L.H. drive vehicles

Pre-removal Operation

- Draining of the Clutch Fluid

Post-installation Operation

- Supplying of Clutch Fluid
- Bleeding of the Clutch Line (Refer to P.21-5.)

**Removal steps**

1. Split pin
2. Washer
3. Clevis pin
4. Clutch tube
5. Clutch tube
6. Hose clip
7. Clutch hose
8. Hose clip
9. Clutch tube
10. Bracket
11. Clutch master cylinder
12. Sealer

NOTE

- (1) Reverse the removal procedures to reinstall
- (2) ♦♦♦ Refer to "Service Points of Removal"
- (3) ♦♦♦ Refer to "Service Points of Installation"
- (4) **N** Non-reusable parts

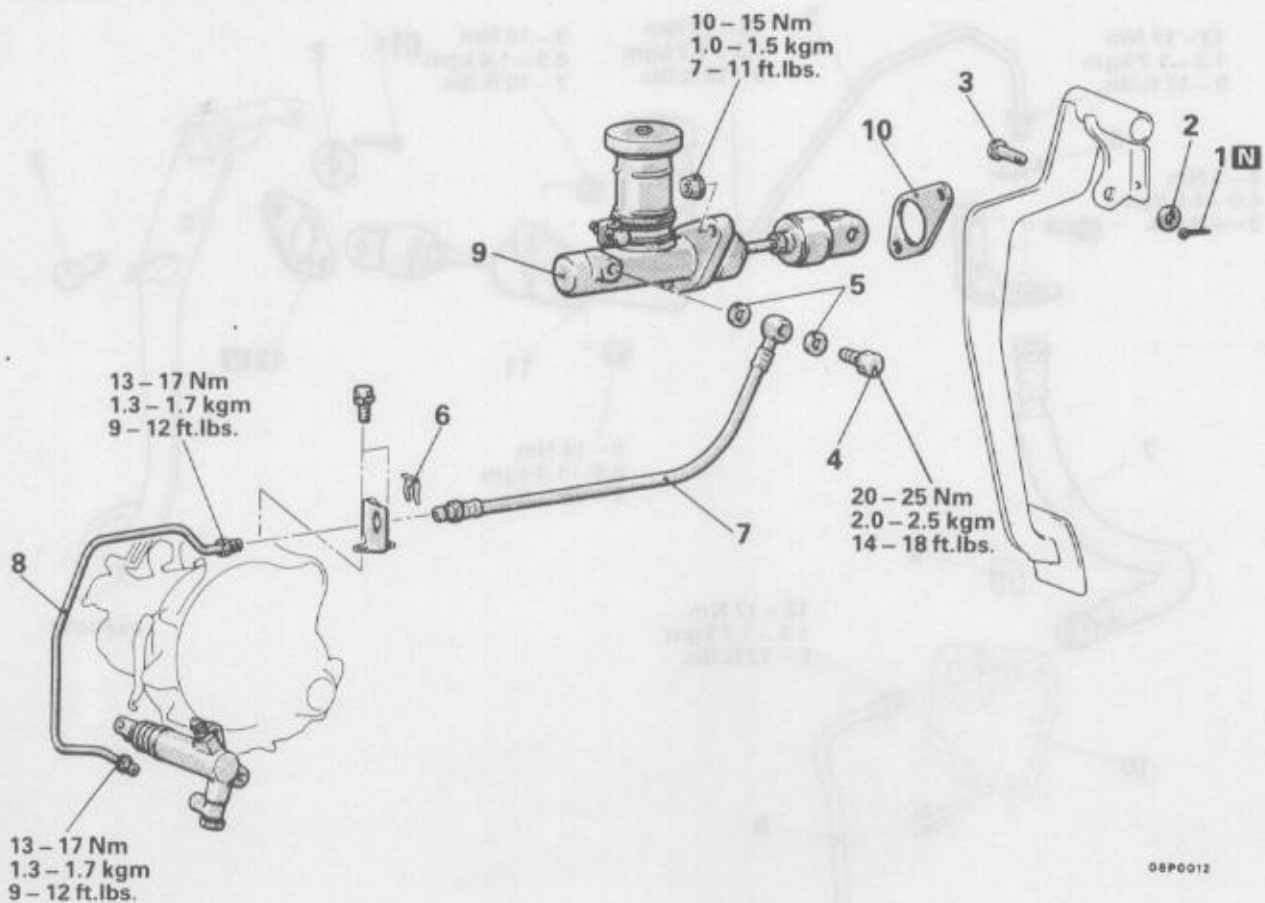
R.H. drive vehicles

Pre-removal Operation

- Draining of the Clutch Fluid

Post-installation Operation

- Supplying of Clutch Fluid
- Bleeding of the Clutch Line (Refer to P.21-5.)



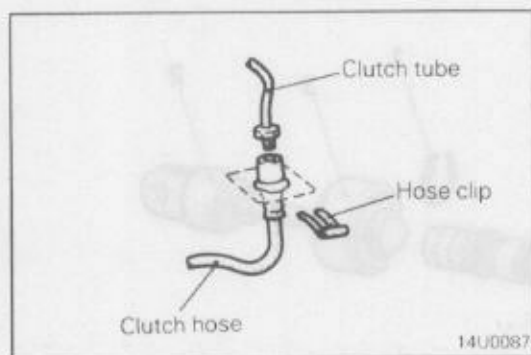
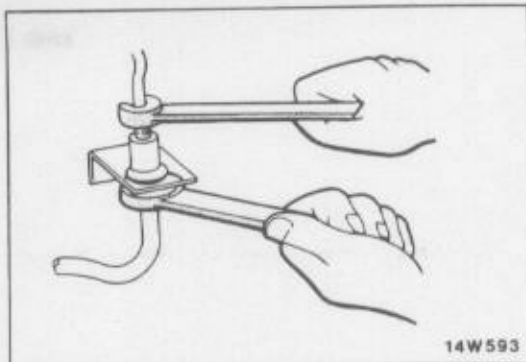
08P0012

Removal steps

1. Split pin
- ♦♦ 2. Washer
- ♦♦ 3. Clevis pin
4. Eye bolt
5. Gasket
- ♦♦ 6. Hose clip
- ♦♦ 7. Clutch hose
- ♦♦ 8. Clutch tube
9. Clutch master cylinder
10. Sealer

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ♦♦ Refer to "Service Points of Removal".
- (3) ♦♦ Refer to "Service Points of Installation".
- (4) **N** Non-reusable parts

**SERVICE POINTS OF REMOVAL**

E21JBAFa

6. 8. DISCONNECTION OF HOSE CLIPS / 7. CLUTCH HOSE
<L.H. drive vehicles>
6. DISCONNECTION OF HOSE CLIP / 7. CLUTCH HOSE
<R.H. drive vehicles>

To disconnect clutch hose from the clutch tube, proceed as follows:

- (1) Secure the nut on the clutch hose and loosen the flare nut on the clutch tube.
- (2) Remove the clip from the clutch hose to remove clutch hose from bracket.

INSPECTION

E21JCAC

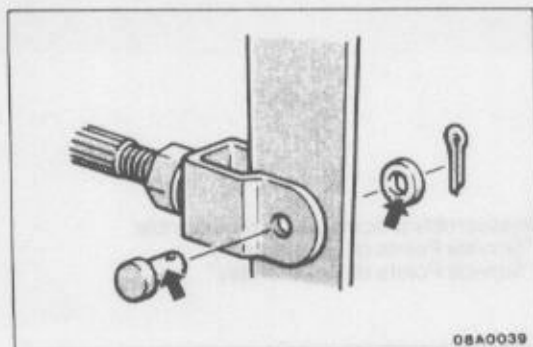
- Check the clutch hose or tube for cracks or clogging.

SERVICE POINTS OF INSTALLATION

E21JDBDa

7. INSTALLATION OF CLUTCH HOSE / 5. 4. CLUTCH TUBE
<L.H. drive vehicles>
8. INSTALLATION OF CLUTCH TUBE / 7. CLUTCH HOSE
<R.H. drive vehicles>

Be careful that the clutch hose does not become twisted.



3. APPLICATION OF GREASE TO CLEVIS PIN / 2. WASHER

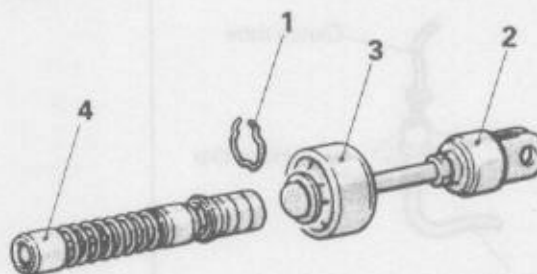
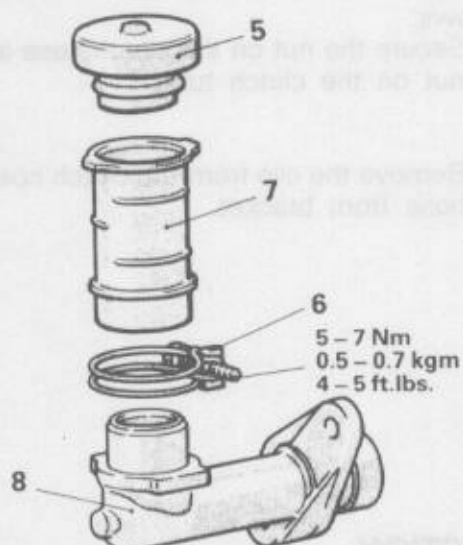
Apply multipurpose grease to the clevis pin and washer.

CLUTCH MASTER CYLINDER

DISASSEMBLY AND REASSEMBLY

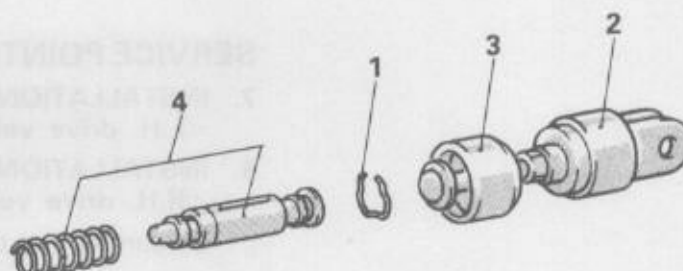
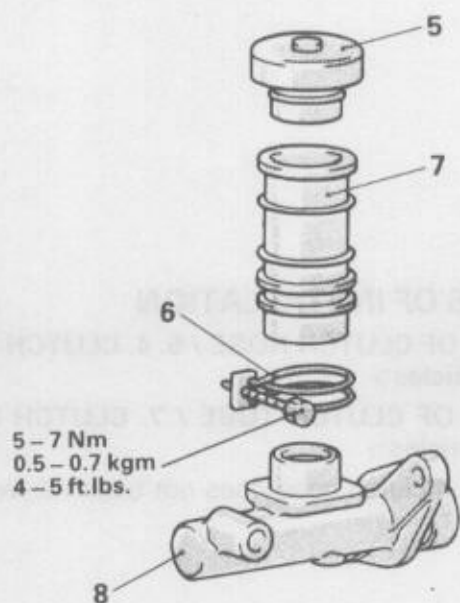
E21SE--

L.H. drive vehicles



08P0035

R.H. drive vehicles



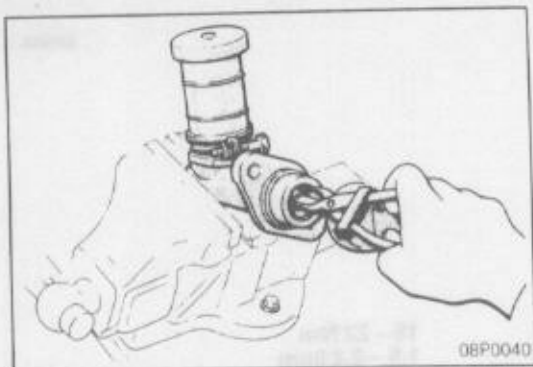
08P0013

Disassembly steps

1. Piston stop ring
2. Damper and push rod
3. Boot
- ◆◆ ◆◆ 4. Piston assembly
- ◆◆ 5. Reservoir cap
- ◆◆ 6. Reservoir band
7. Reservoir
- ◆◆ 8. Master cylinder body

NOTE

- (1) Reverse the disassembly procedures to reassemble.
- (2) ◆◆: Refer to "Service Points of Disassembly".
- (3) ◆◆: Refer to "Service Points of Reassembly".



SERVICE POINT OF DISASSEMBLY

E21SFAE

4. REMOVAL OF PISTON ASSEMBLY

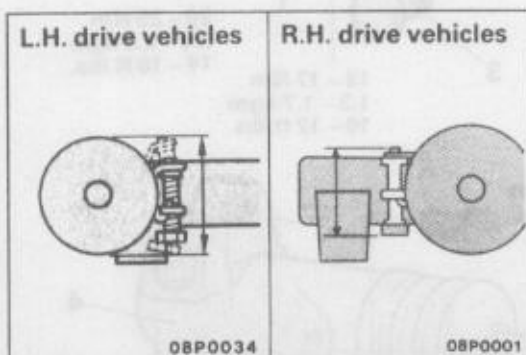
Caution

1. Do not damage the master cylinder body and piston assembly.
2. Do not disassemble the piston assembly.

INSPECTION

E21SGAC

- Check the inside cylinder body for rust or scars.
- Check the piston cup for wear or deformation.
- Check the piston for rust or scars.
- Check the clutch tube connection part for clogging.

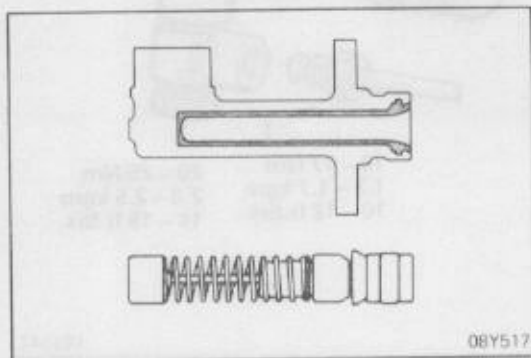


SERVICE POINTS OF REASSEMBLY

E21SHAH_a

6. INSTALLATION OF RESERVOIR BAND

After installing the reservoir to the master cylinder body, install the reservoir band within the range shown by the arrow in the illustration.



8. APPLICATION OF FLUID TO MASTER CYLINDER BODY / 4. PISTON ASSEMBLY

Apply the specified fluid to the inner surface of the cylinder and to the entire periphery of the piston assembly.

Specified fluid: SAE J1703 (DOT3)

CLUTCH RELEASE CYLINDER REMOVAL AND INSTALLATION

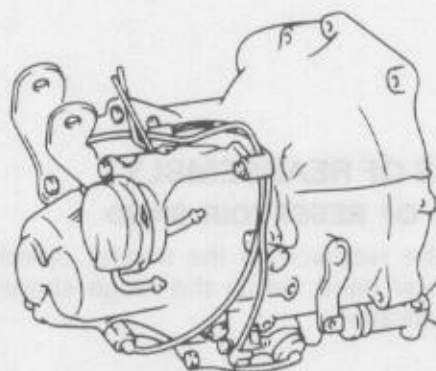
E21MA--

Pre-removal Operation

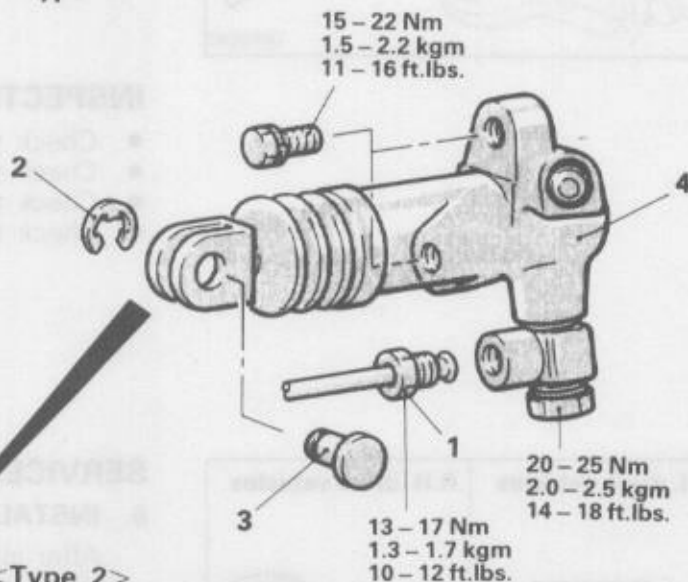
- Draining Clutch Fluid

Post-installation Operation

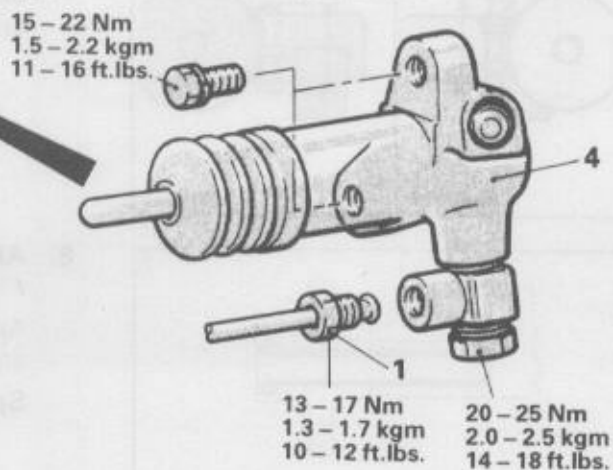
- Supplying Clutch Fluid
- Bleeding Clutch Line (Refer to P.21-5.)



<Type 1>



<Type 2>

**Removal steps**

1. Connection for clutch tube
2. Snap ring
- ♦♦ 3. Clevis pin
- ♦♦ 4. Clutch release cylinder

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ♦♦ Refer to "Service Points of Installation".

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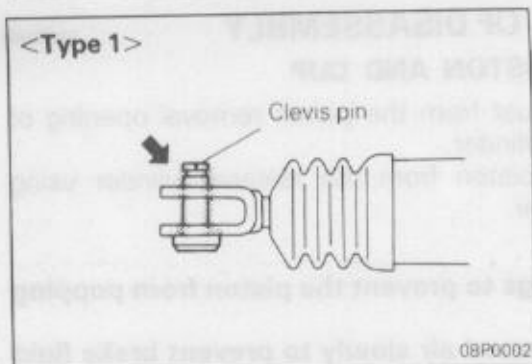
INSPECTION

E21MCAA

- Check the clutch release cylinder for fluid leakage.
- Check the clutch release cylinder boots for damage.

E21MDAG

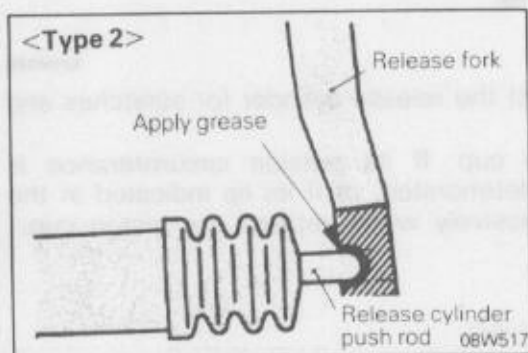
SERVICE POINTS OF INSTALLATION



4. APPLICATION OF GREASE TO CLUTCH RELEASE CYLINDER / 3. CLEVIS PIN <Type 1>

Coat the clevis pin with specified grease, align the hole in the end of the release cylinder push rod with that of the clutch release fork shaft, and insert the clevis pin in the holes.

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



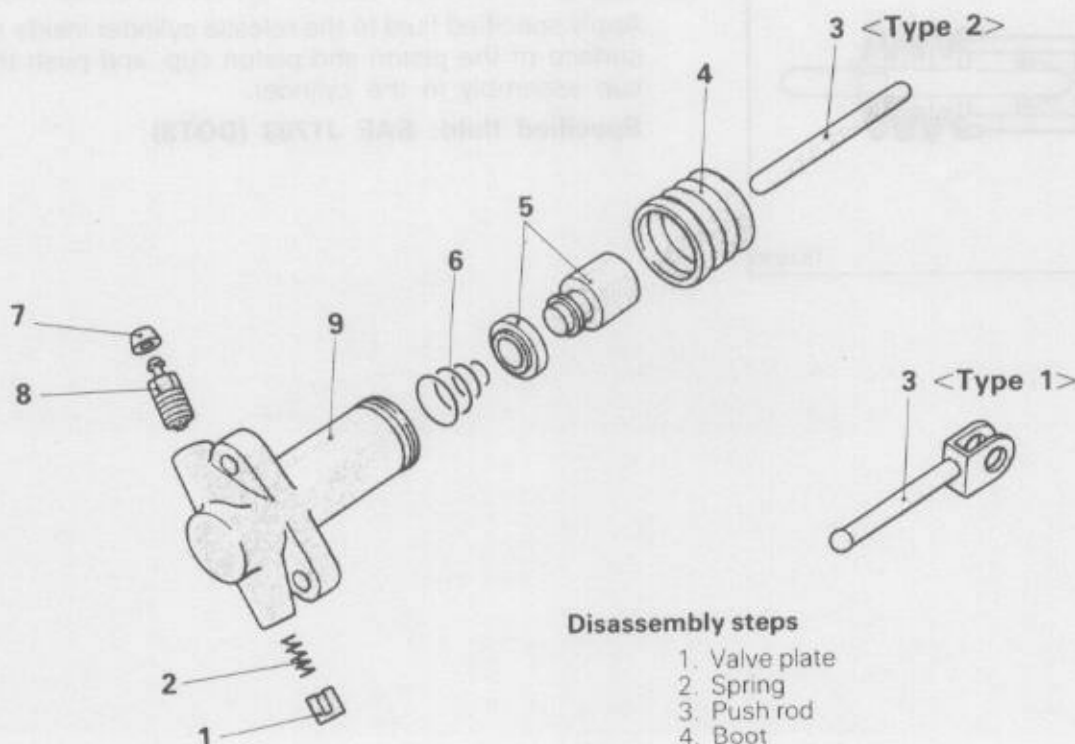
4. APPLICATION OF GREASE TO CLUTCH RELEASE CYLINDER <Type 2>

Apply a coating of the specified grease to the contact parts of the release fork and release cylinder push rod.

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

DISASSEMBLY AND REASSEMBLY

E21ME



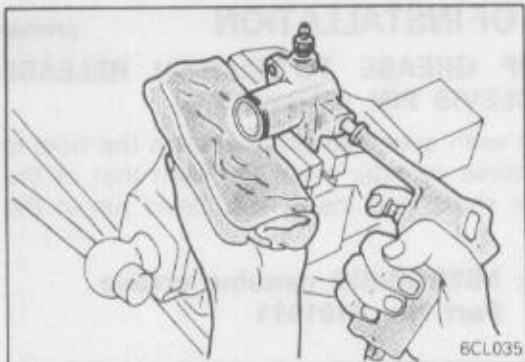
Disassembly steps

1. Valve plate
2. Spring
3. Push rod
4. Boot
5. Piston and cup
6. Conical spring
7. Cap
8. Bleeder plug
9. Release cylinder

NOTE

- (1) Reverse the disassembly procedures to reassemble
- (2) ♦♦♦♦♦ Refer to "Service Points of Disassembly".
- (3) ♦♦♦♦♦ Refer to "Service Points of Reassembly".

6CL034



SERVICE POINTS OF DISASSEMBLY

E21MFAB

5. REMOVAL OF PISTON AND CUP

- (1) Remove the rust from the piston removal opening of the release cylinder.
- (2) Remove the piston from the release cylinder using compressed air.

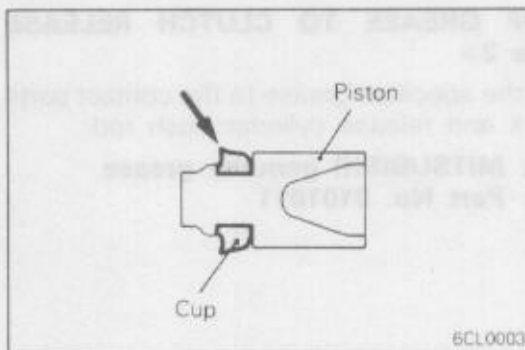
Caution

1. Cover with rags to prevent the piston from popping out.
2. Apply compressed air slowly to prevent brake fluid from splashing.

INSPECTION

E21MGAB

- Check the inside of the release cylinder for scratches and uneven wear.
- Check the piston cup. If its outside circumference is damaged or has deteriorated, or if its lip indicated in the illustration is excessively worn, replace the piston cup.



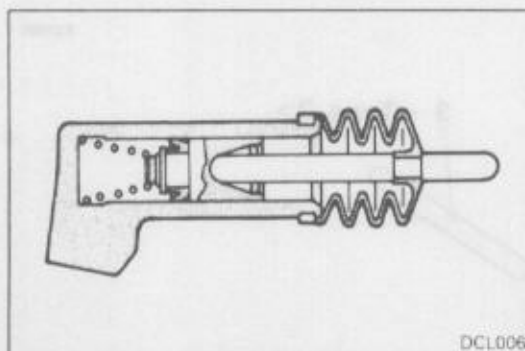
SERVICE POINT OF REASSEMBLY

E21MHAAa

5. APPLICATION OF FLUID TO PISTON AND CUP

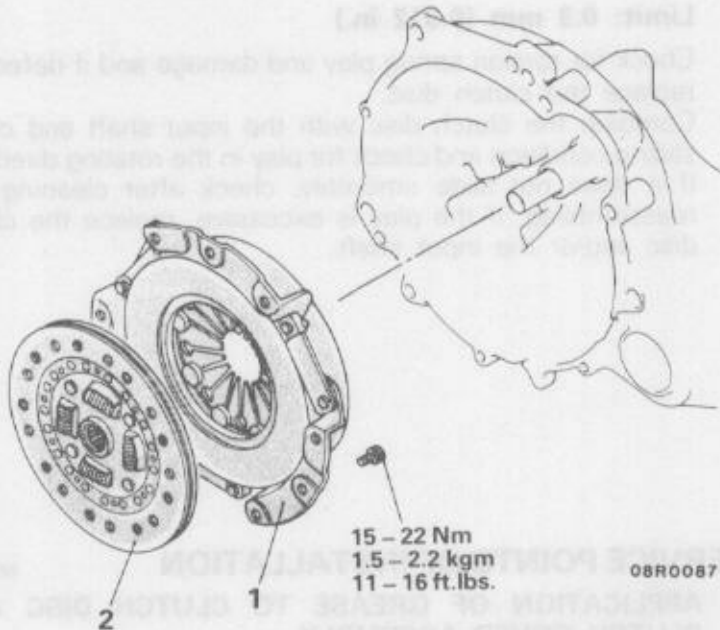
Apply specified fluid to the release cylinder inside and outer surface of the piston and piston cup, and push the piston cup assembly in the cylinder.

Specified fluid: SAE J1703 (DOT3)



CLUTCH COVER AND DISC REMOVAL AND INSTALLATION

E21GA



Pre-removal Operation

- Draining Clutch Fluid
- Draining Transmission Oil
- Removal of Transmission Assembly (Refer to GROUP 22 – Transmission Assembly.)

Post-installation Operation

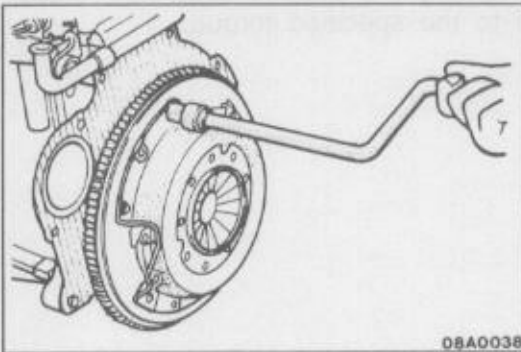
- Supplying of Clutch Fluid
- Bleeding of the Clutch Line (Refer to P.21-5.)
- Supplying of Transmission Oil (Refer to GROUP 22 – Service Adjustment Procedures.)
- Installation of Transmission Assembly (Refer to GROUP 22 – Transmission Assembly.)

Removal steps

- ◆◆◆◆ 1. Clutch cover assembly
- ◆◆◆◆ 2. Clutch disc

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ Refer to "Service Points of Removal"
- (3) ◆◆ Refer to "Service Points of Installation"



SERVICE POINTS OF REMOVAL

E21GBAD

1. REMOVAL OF CLUTCH COVER ASSEMBLY / 2. CLUTCH DISC

Diagonally loosen bolts which attach clutch cover to flywheel. Back off bolts in succession, one or two turns at a time, to avoid bending cover flange.

Caution

DO NOT clean clutch disc or release bearing with cleaning solvent.

INSPECTION

E21GCAB

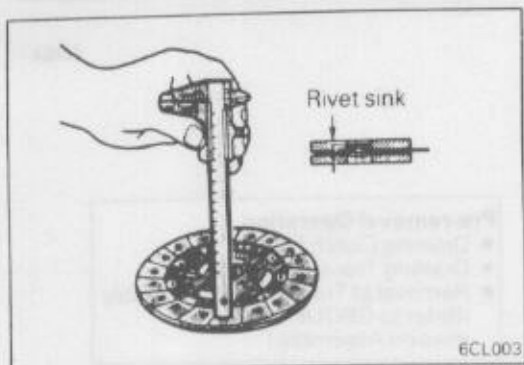
CLUTCH COVER ASSEMBLY

- 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 (0.02 in.)

- Check the pressure plate surface for wear, cracks and colour change.
- Check the strap plate rivets for looseness and replace the clutch cover assembly if loose.

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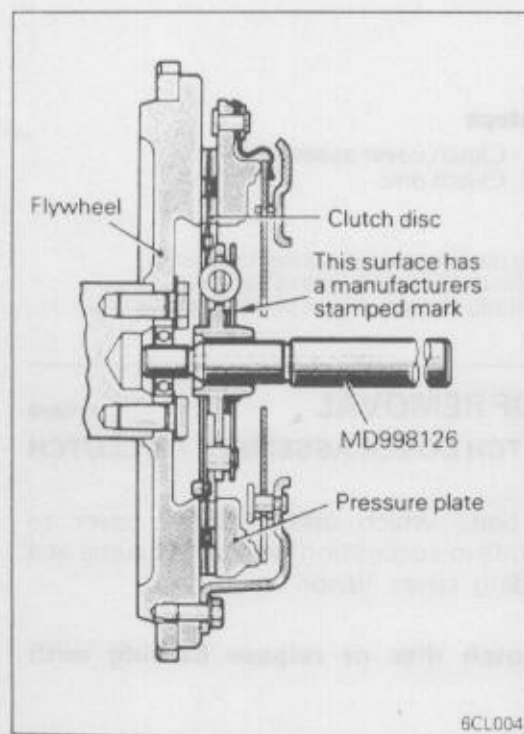


CLUTCH DISC

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

Limit: 0.3 mm (0.012 in.)

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



SERVICE POINTS OF INSTALLATION

E21GDAC

2. APPLICATION OF GREASE TO CLUTCH DISC / 1. CLUTCH COVER ASSEMBLY

- (1) Apply a coating of the specified grease to the clutch disc spline, and then use a brush to rub it in.

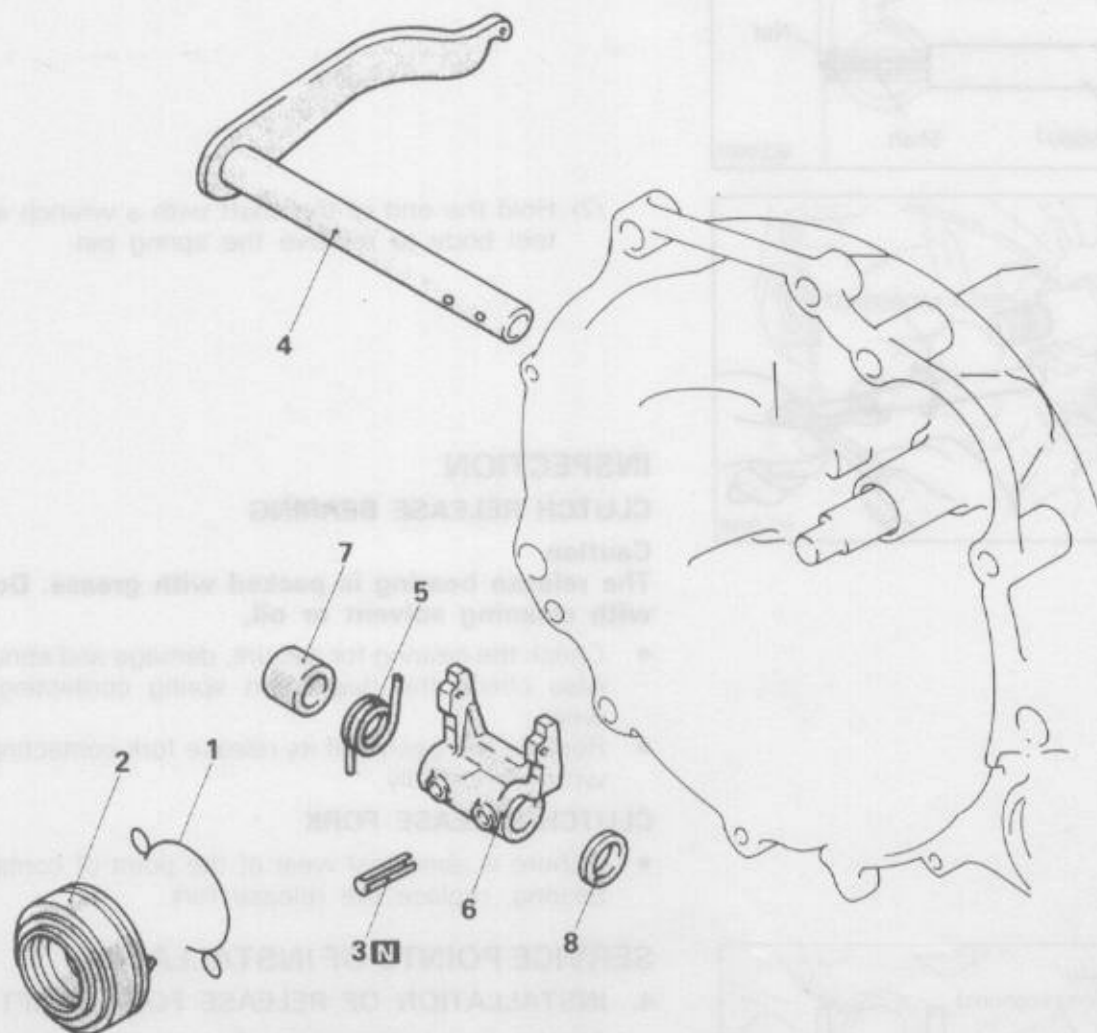
**Specified grease: MITSUBISHI genuine grease
Part No. 0101011**

- (2) Using the special tool (clutch disc centre guide), position the clutch disc to the flywheel.
- (3) Install the clutch cover assembly. Tighten the bolts a little at a time, working in a diagonal sequence, finally tightening them to the specified torque.

CLUTCH RELEASE BEARING <1200, 1300, 1500>

E210A-

REMOVAL AND INSTALLATION

**Pre-removal Operation**

- Draining Clutch Fluid
- Draining Transmission Oil
- Removal of Transmission Assembly (Refer to GROUP 22 – Transmission Assembly.)

Post-installation Operation

- Supplying of Clutch Fluid
- Bleeding of the Clutch Line (Refer to P.21-5.)
- Supplying of Transmission Oil (Refer to GROUP 22 – Service Adjustment Procedures.)
- Installation of Transmission Assembly (Refer to GROUP 22 – Transmission Assembly.)

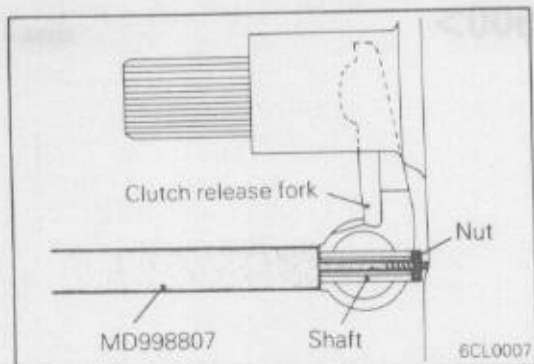
Removal steps

1. Return clip
2. Clutch release bearing
3. Spring pin
4. Release fork shaft
5. Return spring
6. Release fork
7. Packing "A"
8. Packing "B"

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ♦♦: Refer to "Service Points of Removal".
- (3) ♦♦: Refer to "Service Points of Installation".
- (4) **N**: Non-reusable parts.

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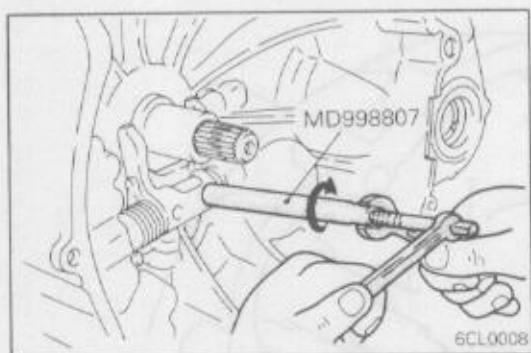
SERVICE POINT OF REMOVAL

E210BAA

3. REMOVAL OF SPRING PIN

- (1) Insert the shaft of the special tool in the spring pin, and install the nut on the end of the shaft.

- (2) Hold the end of the shaft with a wrench and turn the tool body to remove the spring pin.



INSPECTION

E210CAA

CLUTCH RELEASE BEARING

Caution

The release bearing is packed with grease. Do not clean with cleaning solvent or oil.

- Check the bearing for seizure, damage and abnormal noise. Also check the diaphragm spring contacting points for wear.
- Replace the bearing if its release fork contacting points are worn abnormally.

CLUTCH RELEASE FORK

- If there is abnormal wear at the point of contact with the bearing, replace the release fork.

SERVICE POINTS OF INSTALLATION

E210DAA

4. INSTALLATION OF RELEASE FORK SHAFT

Apply grease to the release fork shaft. Pack the portions of the clutch housing which are indicated in the illustration with the specified grease.

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

Caution

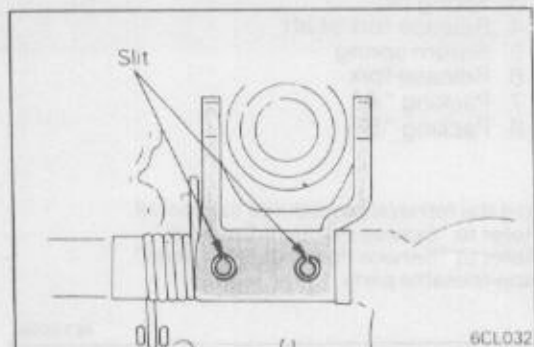
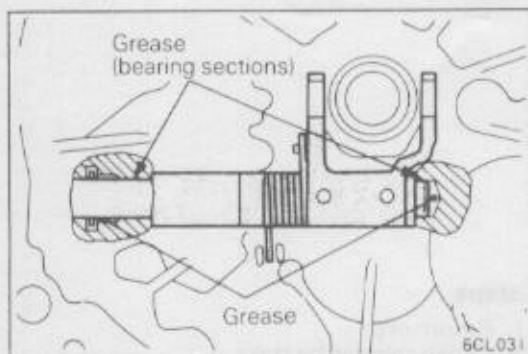
When installing the clutch, apply grease to each part, but be careful not to apply excessive grease; excessive grease will cause clutch slippage and shudder.

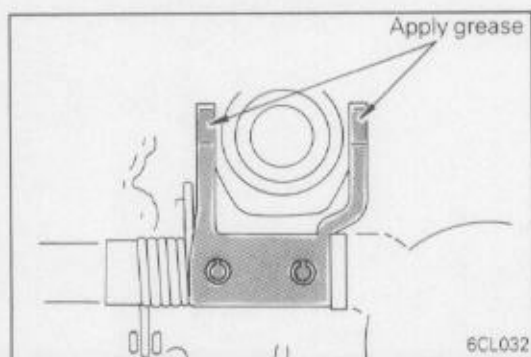
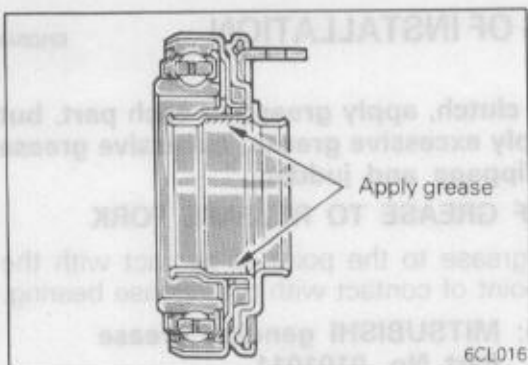
3. INSTALLATION OF SPRING PIN

Use the special tool (MD998245) to install the spring pins.

Caution

Install the spring pins so that their slit lines vertically cross the centerline of the release fork shaft as shown.





2. INSTALLATION OF CLUTCH RELEASE BEARING

(1) Apply grease into groove of release bearing.

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

(2) Apply grease to release bearing contact surfaces of clutch release fork.

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

CLUTCH RELEASE BEARING <4G37, 4G61, 4G67, 4G92, 4G93, 4D65, 4D68>

E210A-A

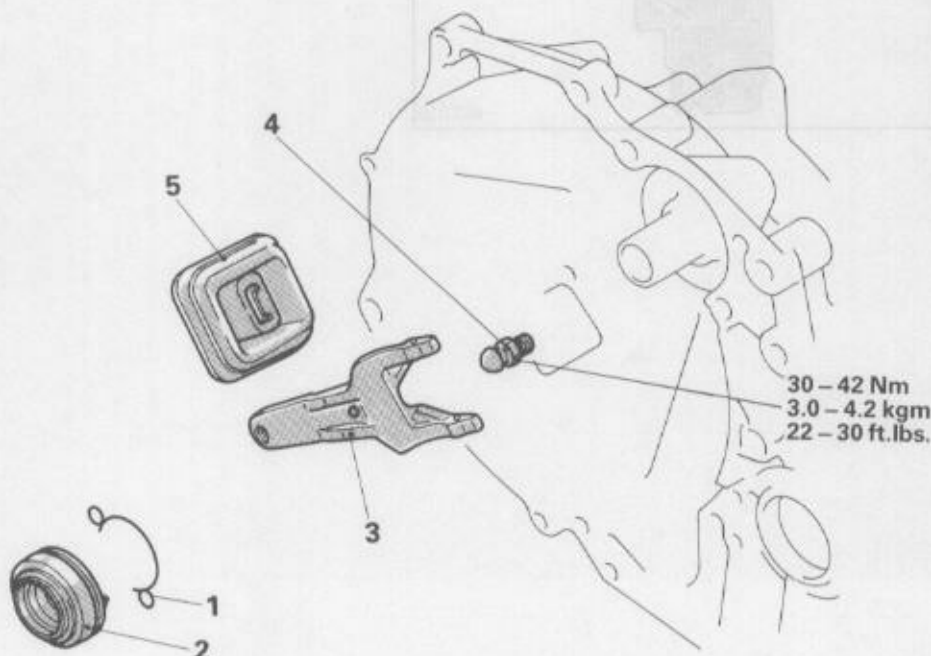
REMOVAL AND INSTALLATION

Pre-removal Operation

- Draining Clutch Fluid
- Draining Transmission Oil
- Removal of Transmission Assembly (Refer to GROUP 22 – Transmission Assembly.)

Post-installation Operation

- Supplying of Clutch Fluid
- Bleeding of the Clutch Line (Refer to P.21-5.)
- Supplying of Transmission Oil (Refer to GROUP 22 – Service Adjustment Procedures.)
- Installation of Transmission Assembly (Refer to GROUP 22 – Transmission Assembly.)



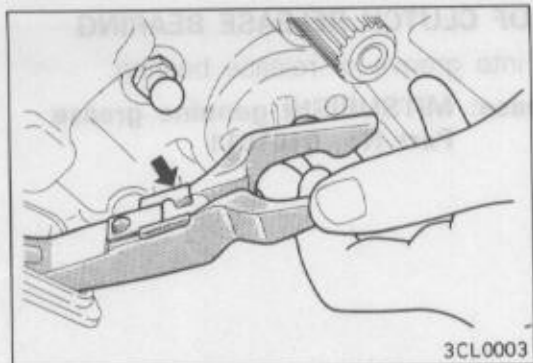
Removal steps

1. Return clip
- ♦♦ 2. Clutch release bearing
- ♦♦ 3. Release fork
4. Release fork boot
5. Fulcrum

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ♦♦. Refer to "Service Points of Installation".

6CL0005



SERVICE POINTS OF INSTALLATION

E210DAB

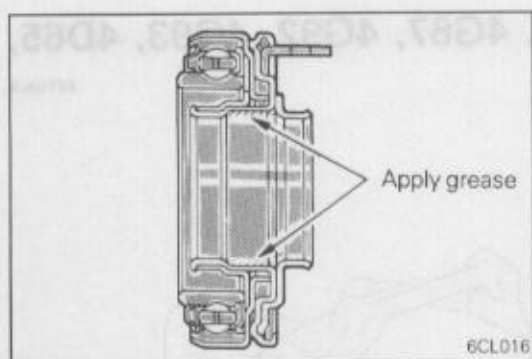
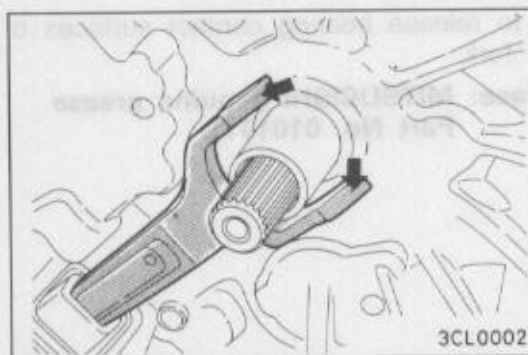
Caution

When installing the clutch, apply grease to each part, but be careful not to apply excessive grease; excessive grease will cause clutch slippage and judder.

3. APPLICATION OF GREASE TO RELEASE FORK

Apply coating of grease to the point of contact with the fulcrum and the point of contact with the release bearing.

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

**2. APPLICATION OF GREASE TO CLUTCH RELEASE BEARING**

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