

# CLUTCH

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**CAUTION**

When servicing clutch assemblies or components, 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.

**GENERAL INFORMATION**

The clutch is the dry single-plate diaphragm type; hydraulic pressure is used for the clutch control. The clutch control is composed of the clutch pedal, the clutch master cylinder, the clutch tube, the release cylinder, etc. Note that the clutch pedal is the suspended type.

**SPECIFICATIONS****GENERAL SPECIFICATIONS**

| Items  | Specifications                     |
|--|------------------------------------|
| Clutch operating method                            | Hydraulic type                     |
| Inside diameter of clutch master cylinder mm (in.) | 15.87 (.6248)                      |
| Clutch disc  |                                    |
| Type   | Single dry disc type               |
| Facing Size (outside x inside) mm (in.)            | 225 x 150 (8.9 x 5.9)              |
| Number of torsion springs                          | 4                                  |
| Clutch cover assembly                              |                                    |
| Type   | Diaphragm spring, strap drive type |
| Setting load N (lbs.)                              | 3,432 (772)                        |
| Mounting bolt circle diameter mm (in.)             | 264 (10.4)                         |
| Clutch release bearing                             |                                    |
| Type   | Self-centering type                |
| Free travel mm (in.)                               | 0 (0)-Constant contact type        |
| Clutch release cylinder                            |                                    |
| Cylinder bore diameter mm (in.)                    | 19.05 (.75)                        |

**SERVICE SPECIFICATIONS**

| Items  | Specifications    |
|--|-------------------|
| Standard values  |                   |
| Clutch pedal height mm (in.)   | 186–191 (7.3–7.5) |
| Clutch pedal clevis pin play mm (in.)  | 1–3 (.04–.12)     |
| Clutch pedal free play mm (in.)  | 8–16 (.31–.63)    |
| Clearance between clutch pedal and floorboard when pedal is depressed mm (in.) | 35 (1.38) or more |
| Limit  |                   |
| Master cylinder to piston clearance mm (in.)                                   | 0.15 (.0059)      |
| Clutch disc rivet sink mm (in.)  | 0.3 (.012)        |

**TORQUE SPECIFICATIONS**

N06CC--

| Items                                 | Nm    | ft.lbs. |
|---------------------------------------|-------|---------|
| Clutch to flywheel                    | 15-22 | 11-16   |
| Release cylinder to transmission case | 31-42 | 22-30   |
| Fulcrum                               | 31-42 | 22-30   |
| Clutch pedal to pedal bracket         | 25-35 | 18-25   |
| Eye bolt                              | 20-25 | 15-18   |
| Clutch tube flare nut                 | 13-17 | 10-12   |
| Clutch master cylinder to firewall    | 7-9   | 5-7     |
| Clutch pedal bracket                  | 18-25 | 13-18   |
| Push rod lock nut                     | 8-12  | 6-9     |

**LUBRICANTS**

N06CD--

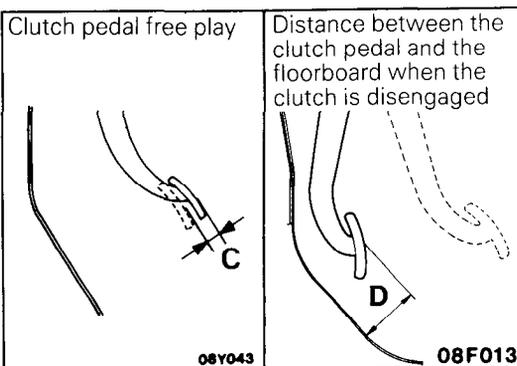
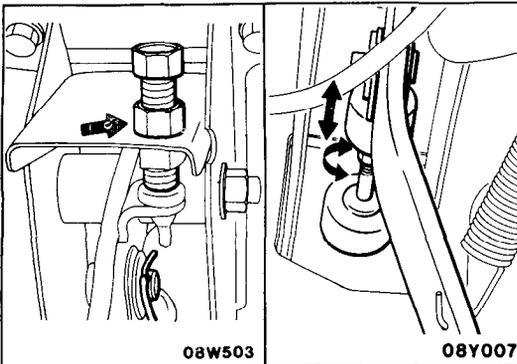
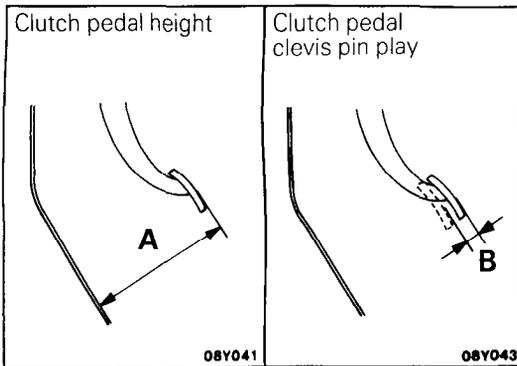
| Items  | Specified lubricants                          | Quantity    |
|--|---|-------------|
| Fluid  | DOT 3   | As required |
| Clutch master cylinder push rod, clevis pin and washer | Wheel bearing grease<br>SAE J310, NLGI No. 2  | As required |
| Clutch pedal shaft and bushings                        | Multipurpose grease SAE J310,<br>NLGI No.3    | As required |
| Clutch disc spline                                     | MITSUBISHI Genuine Grease<br>Part No. 0101011 | As required |
| Clutch release fork shaft bearing                      | MITSUBISHI Genuine Grease<br>Part No. 0101011 | As required |
| Clutch release bearing inner surface                   | MITSUBISHI Genuine Grease<br>Part No. 0101011 | As required |
| Release cylinder inner diameter                        | DOT 3   | As required |

## TROUBLESHOOTING

N06EAAF

| Symptom  |   | Probable cause   | Remedy            | Reference page |
|--|---|--|-------------------|----------------|
| Clutch slipping <ul style="list-style-type: none"> <li>Vehicle will not respond to engine speed during acceleration.</li> <li>Improper vehicle speed</li> <li>Lack of power during uphill driving</li> </ul> |   | Improper pedal free play                                 | Adjust            | 6-6            |
|  |   | Excessive wear of clutch disc facing                     | Replace           | 6-14           |
|  |   | Hardened clutch disc facing, or oil on surface           | Replace           | 6-14           |
|  |   | Damaged pressure plate or flywheel                       | Replace           | 6-14, 9-60     |
|  |   | Weak or broken pressure spring                           | Replace           | 6-14           |
| Clutch drags or does not release   |   | Excessive clutch pedal free play                         | Adjust            | 6-6            |
|  |   | Interference between pedal and floor panel               | Correct           | 6-6            |
|  |   | Pilot bearing worn or broken                             | Replace           | 9-57           |
|  |   | Clutch disc warped                                       | Replace           | 6-14           |
|  |   | Pressure plate, disc or throwout bearing damaged         | Replace           | 6-14           |
|  |   | Hydraulic system fluid leakage or air mixed in           | Repair or replace | 6-6            |
| Difficult gear shifting (gear noise during shifting)   |   | Excessive pedal free play                                | Adjust            | 6-6            |
|  |   | Hydraulic system fluid leakage or air mixed in           | Repair or Replace | 6-6            |
|  |   | Unusual wear or corrosion of clutch disc spline          | Replace           | 6-14           |
|  |   | Excessive vibration (distortion) of clutch disc          | Replace           | 6-14           |
| Clutch noisy   | When clutch is not used                     | Improper play of clutch pedal                            | Adjust            | 6-6            |
|  |   | Excessive wear of clutch disc facing                     | Replace           | 6-14           |
|  | A noise is heard after clutch is disengaged | Unusual wear and/or damage of release bearing            | Replace           | 6-14           |
|  | A noise is heard when clutch is disengaged  | Improper grease on the sliding surface of bearing sleeve | Repair            | 6-14           |
|  |   | Improperly installed clutch assembly or bearing          | Repair            | 6-14           |
| A noise is heard when vehicle is suddenly rolled of with clutch partially engaged  | Damaged pilot bearing                       | Replace  | 9-60              |                |

| Symptom                           | Probable cause                                     | Remedy            | Reference page     |
|-----------------------------------|--|-------------------|--------------------|
| Clutch chatters                   | Facing hardened                                    | Replace           | 6-14               |
|                                   | Facing stained with oil or grease                  | Repair or replace | 6-14               |
|                                   | Weak or broken disc damper springs                 | Replace           | 6-14               |
|                                   | Improper facing contact or disc runout             | Replace           | 6-14               |
|                                   | Pressure plate or flywheel warped                  | Replace           | 6-14, 9-62         |
|                                   | Loose engine mounting                              | Repair or replace | 9-20, 21           |
| Hard pedal effort                 | Improper lubrication of clutch pedal shaft         | Repair            | 6-7                |
|                                   | Improper lubrication of clutch disc spline         | Repair            | 6-17               |
|                                   | Improper lubrication of clutch release lever shaft | Repair            | 6-12               |
|                                   | Improper lubrication of front bearing retainer     | Repair            | Refer to GROUP 21. |
| Clutch operation erratic or rough | Facing stained with grease or oil                  | Repair or replace | 6-14               |
|                                   | Facing worn or rivet loose                         | Replace           | 6-14               |
|                                   | Torsion spring deteriorated or broken              | Replace           | 6-14               |
|                                   | Improper lubricant on clutch pedal pivot           | Lubricate         | 6-7                |



## SERVICE ADJUSTMENT PROCEDURES

### INSPECTION AND ADJUSTMENT OF CLUTCH PEDAL

N06FAAH

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

**Standard value (A) : 186–191 mm (7.3–7.5 in.)**

**Standard value (B) : 1–3 mm (.04–.12 in.)**

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 the stopper bolt to adjust the clutch pedal height to agree with the standard value and then secure the bolt 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

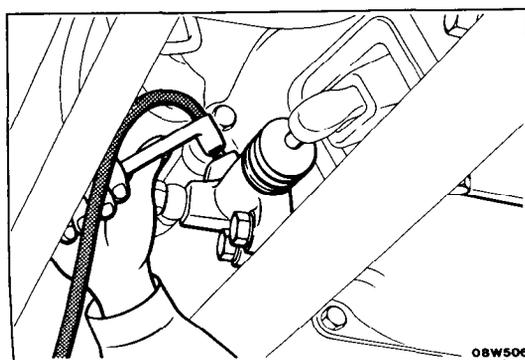
**When adjusting the clutch pedal clevis pin play, be careful not to push the push rod toward the master cylinder.**

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 floorboard when the clutch is disengaged are within the standard value ranges.

**Standard value (C) : 8–16 mm (.31–.63 in.)**

**Standard value (D) : 35 mm (1.38 in.) or more**

4. If the clutch pedal free play and the distance between the clutch pedal and the floorboard 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

N06FBAB

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.

#### Caution

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

**Specified brake fluid : DOT 3**

# CLUTCH PEDAL REMOVAL AND INSTALLATION

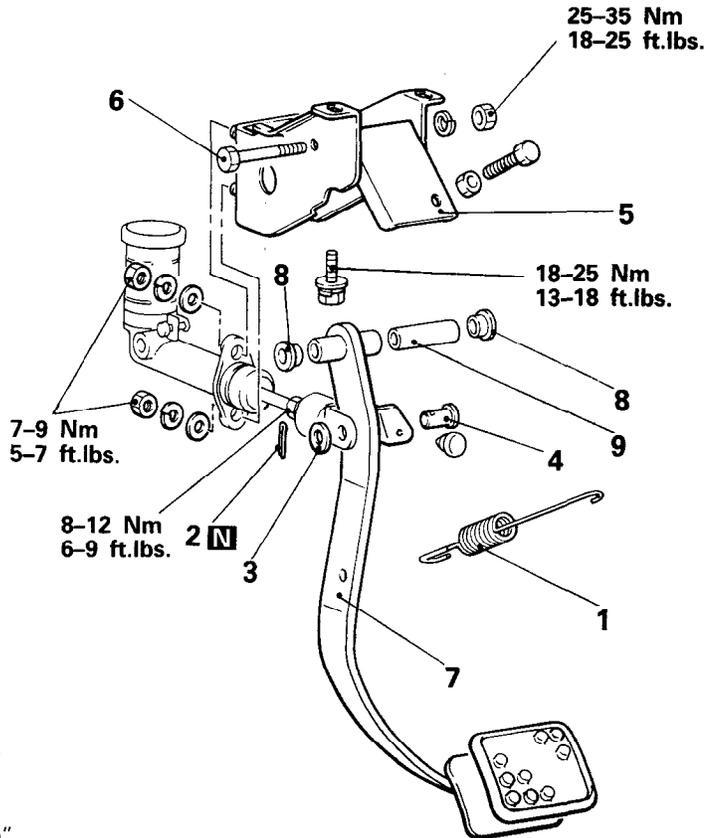
N06PA-

**Post-installation Operation**

- Adjustment of Clutch Pedal (Refer to P.6-6.)

**Removal steps**

1. Return spring
2. Cotter pin
- ◆◆ 3. Washer
- ◆◆ 4. Clevis pin
5. Clutch pedal bracket
- ◆◆ 6. Pedal shaft
7. Clutch pedal
- ◆◆ 8. Bushing
- ◆◆ 9. Spacer



**NOTE**

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

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## INSPECTION

N06PCAC

- Check the pedal shaft bushing for wear.
- Check the pedal arm for bend or torsion.
- Check the return spring for deterioration.

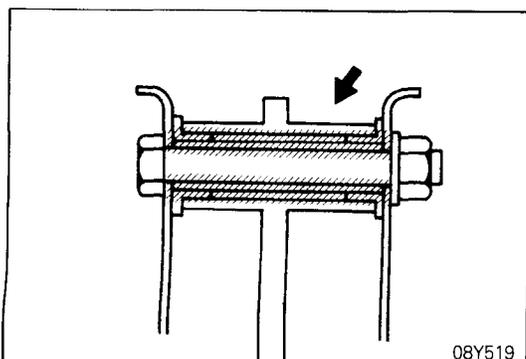
## SERVICE POINTS OF INSTALLATION

N06PDAK

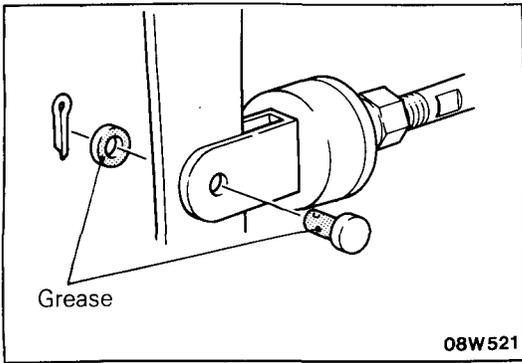
### 9. APPLICATION OF GREASE TO SPACER/8. BUSHING/6. PEDAL SHAFT

Apply specified grease to the pedal shaft, spacer and bushings.

**Specified Grease : Multipurpose grease SAE J310, NLGI No. 3**



08Y519



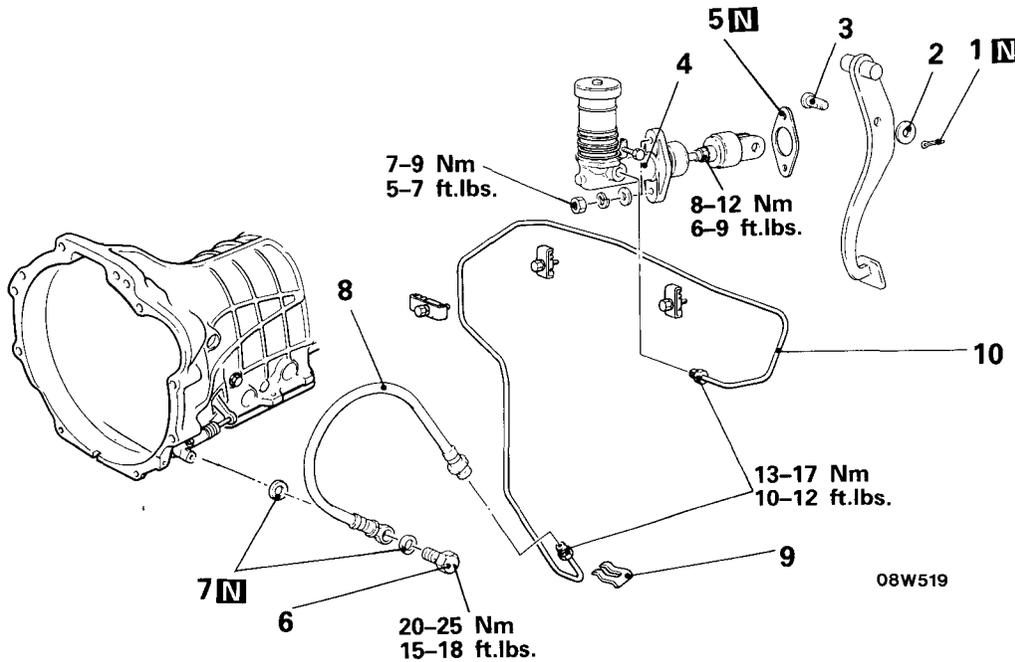
4. APPLICATION OF GREASE TO CLEVIS PIN/3. WASHER

Apply the specified grease to the outer surface of the spacer and the inner surface of the bushing.

Specified grease : Wheel bearing grease SAE J310, NLGI No. 2

CLUTCH MASTER CYLINDER AND TUBE  
REMOVAL AND INSTALLATION

N06MA--



08W519

Clutch master cylinder removal steps

- 1. Cotter pin
- ◆◆ 2. Washer
- ◆◆ 3. Clevis pin
- 4. Clutch master cylinder
- 5. Sealer

Clutch line removal steps

- 6. Eye bolt
- 7. Gasket
- ◆◆◆◆ 8. Clutch hose
- ◆◆ 9. Hose clip
- ◆◆ 10. Clutch tube

Pre-removal Operation

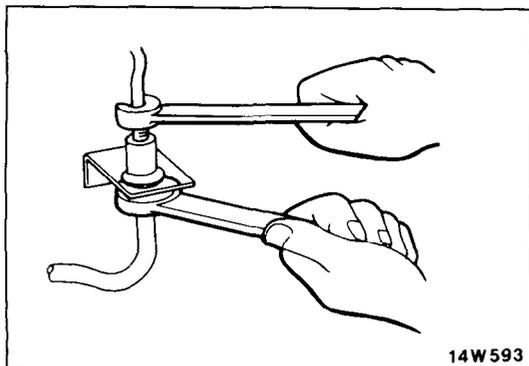
- Draining of Clutch Fluid

Post-installation Operation

- Supplying Clutch Fluid
- Bleeding  
(Refer to P.6-6.)
- Adjustment of Clutch Pedal  
(Refer to P.6-6.)

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

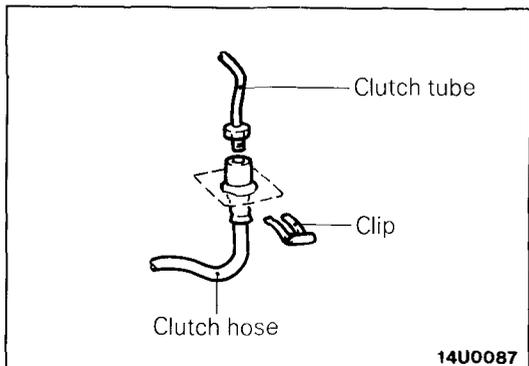


## SERVICE POINTS OF REMOVAL

N06MBAD

### 8. REMOVAL OF CLUTCH HOSE

- (1) Holding the nut at the clutch hose side, loosen the flare nut of the clutch tube.

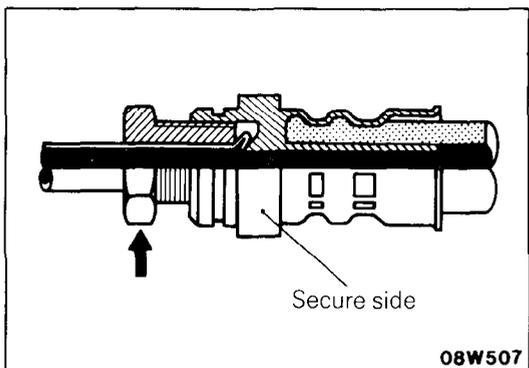


- (2) Pull off the clutch hose clip and remove the clutch hose from the bracket.

## INSPECTION

N06MCAA

- Check the master cylinder or clutch hose for fluid leakage.
- Check the clutch hose or tube for cracks or clogging.

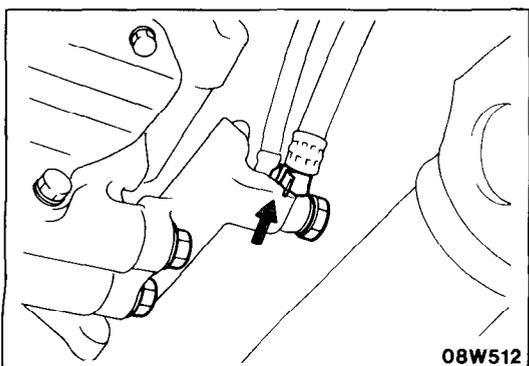


## SERVICE POINTS OF INSTALLATION

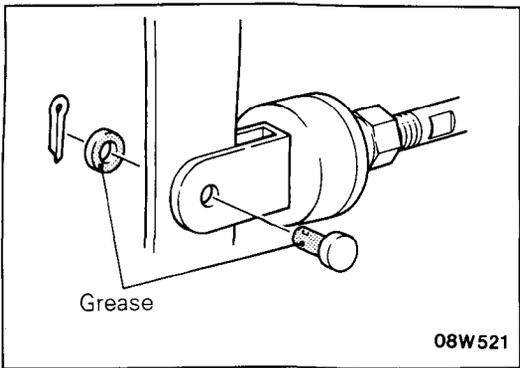
N06MDAE

### 10. INSTALLATION OF CLUTCH TUBE/8. CLUTCH HOSE

- (1) Temporarily tighten the clutch tube flare nut by hand, and then tighten it to the specified torque, being careful that the clutch hose does not become twisted.



- (2) Connect the clutch hose to the release cylinder at the stepped portion shown in the illustration.
- (3) After tightening the clutch tube flare nut and eye bolt, check to be sure there is no leakage of the clutch fluid.



### 3. APPLICATION OF GREASE TO CLEVIS PIN/2. WASHER N06MDAF

Apply the specified grease to the outer surface of the spacer and the inner surface of the bushing.

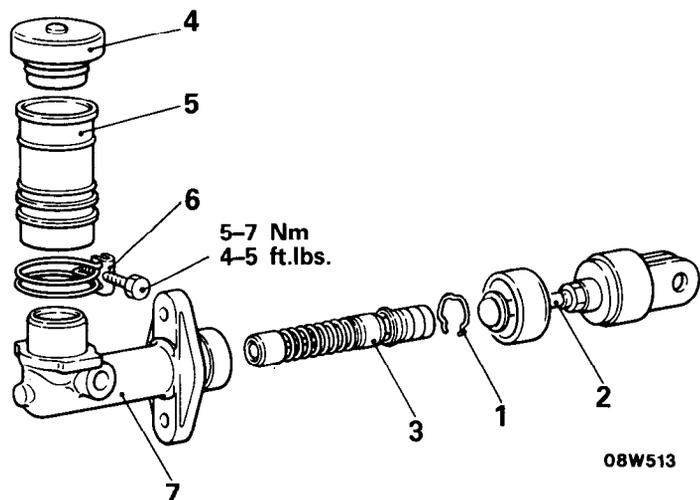
**Specified grease : Wheel bearing grease SAE J310, NLGI No. 2**

## DISASSEMBLY AND REASSEMBLY

N06NA--

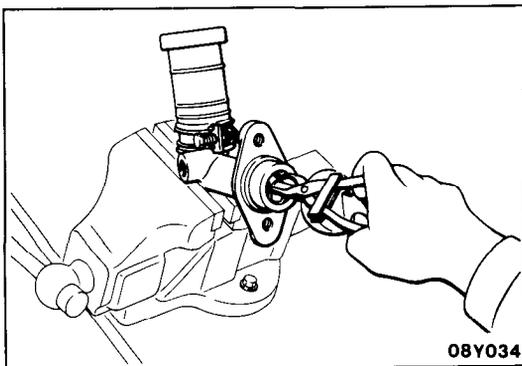
### Disassembly steps

- ◄► 1. Piston stop ring
- ◄► 2. Damper and push rod
- ◄► ◄► 3. Piston assembly
- ◄► 4. Reservoir cap
- ◄► 5. Reservoir
- ◄◄ 6. Reservoir band
- ◄◄ 7. 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 POINTS OF DISASSEMBLY

N06NBAA

### 1. REMOVAL OF PISTON STOP RING

Remove the piston stop ring.

### 3. REMOVAL OF PISTON ASSEMBLY

Pull out the piston assembly.

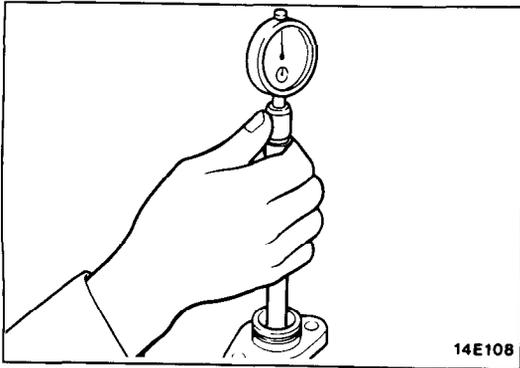
### Caution

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

## INSPECTION

N06NCAB

- Check the inside cylinder body for rust or scars.
- Check the piston cup for wear or deformation.
- Check the piston for rust or scars.



### CLEARANCE BETWEEN MASTER CYLINDER INNER DIAMETER AND PISTON OUTER DIAMETER

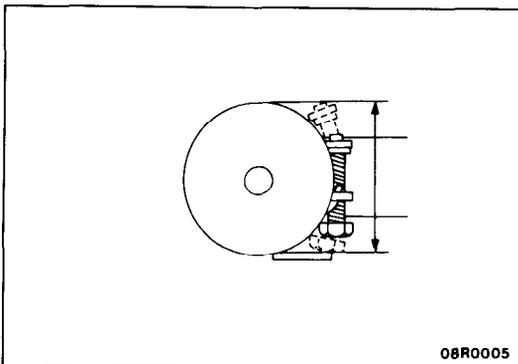
- (1) Measure the master cylinder inside diameter and the piston outside diameter with a cylinder gauge and a micrometer.

**Limit : 0.15 mm (.0059 in.)**

#### NOTE

Measure the inside diameter of the master cylinder at three-places (bottom, middle, and top), each in two perpendicular directions.

- (2) If master cylinder-to-piston clearance exceeds the limit, replace the master cylinder and/or piston assembly.

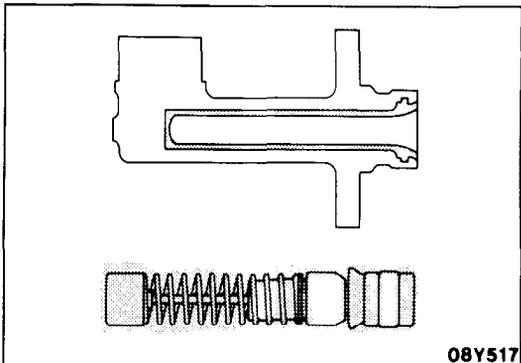


### SERVICE POINTS OF REASSEMBLY

N06NDAG

#### 6. INSTALLATION OF RESERVOIR BAND

After installing the reservoir, tighten the reservoir band in the range shown in the figure.



#### 3. APPLICATION OF CLUTCH FLUID TO PISTON ASSEMBLY

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

**Specified clutch fluid : DOT 3**

## CLUTCH RELEASE CYLINDER

## REMOVAL AND INSTALLATION

N06HA--

**Pre-removal Operation**

- Draining of Clutch Fluid

**Post-installation Operation**

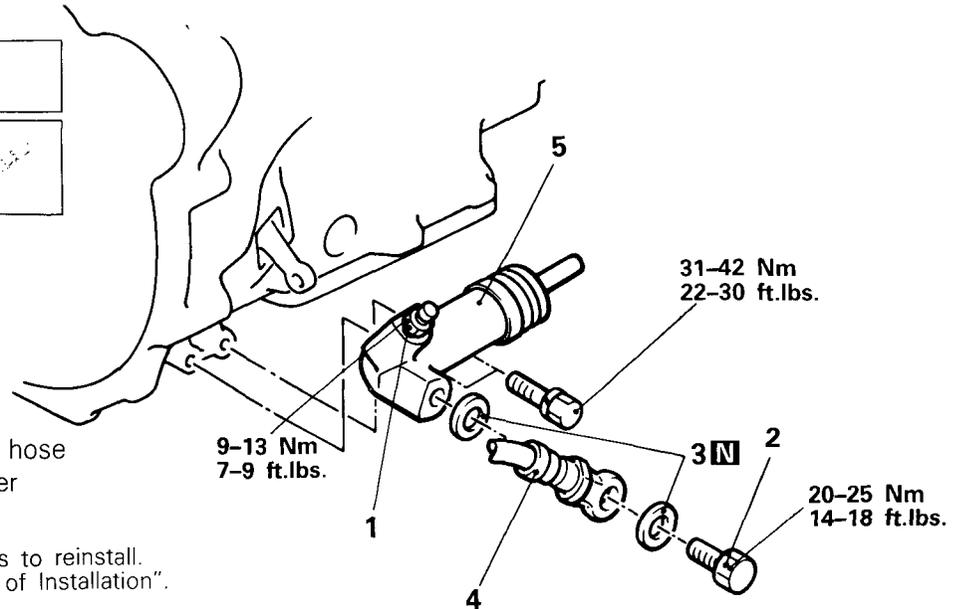
- Supplying Clutch Fluid
- Bleeding (Refer to P.6-6.)

**Removal steps**

1. Bleeder screw
2. Eye bolt
3. Gasket
- ◆◆ 4. Connection of clutch hose
- ◆◆ 5. Clutch release cylinder

**NOTE**

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



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**INSPECTION**

N06HCAA

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

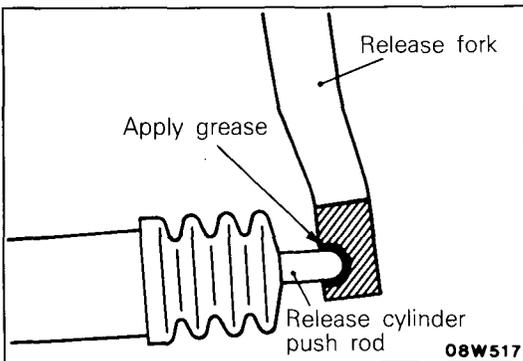
**SERVICE POINTS OF INSTALLATION**

N06HDAE

**5. APPLICATION OF GREASE TO CLUTCH RELEASE CYLINDER**

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

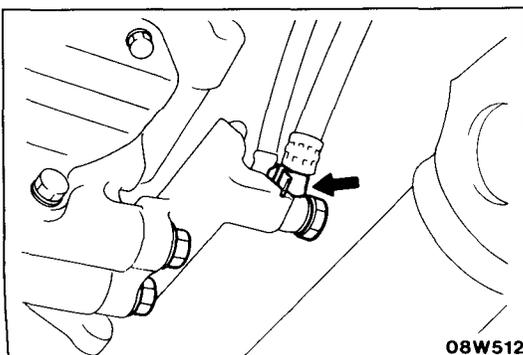
**Specified Grease : MITSUBISHI Genuine Grease Part No. 0101011**



08W517

**4. CONNECTION OF CLUTCH HOSE**

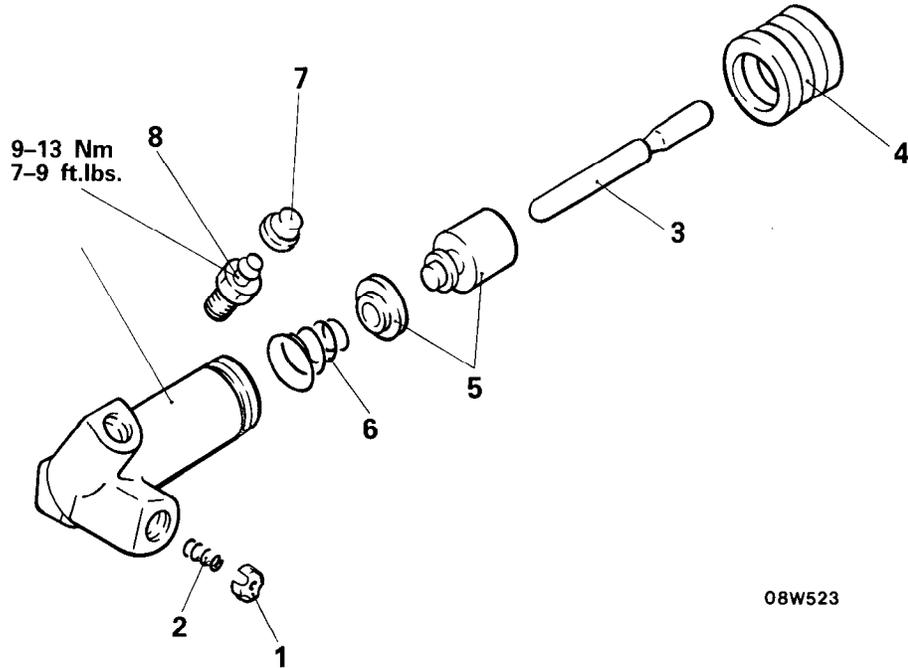
- (1) Connect the clutch hose to the release cylinder at the stepped portion shown in the illustration.
- (2) After tightening the eye bolt, check to be sure there is no leakage of the clutch fluid.



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DISASSEMBLY AND REASSEMBLY

N06LA--



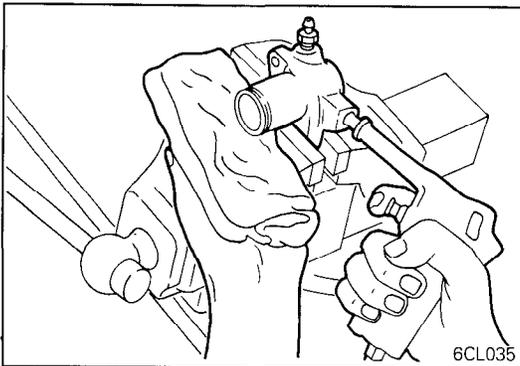
Disassembly steps

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

08W523

NOTE

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



SERVICE POINTS OF DISASSEMBLY

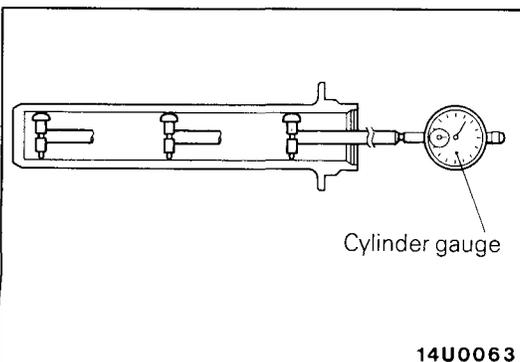
N06LBAA

5. REMOVAL OF PISTON AND CUP

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.



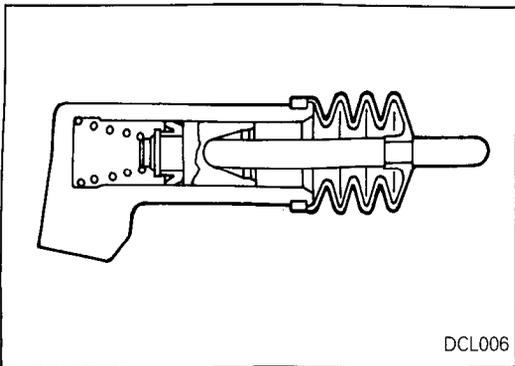
INSPECTION

N06LCAA

- Check the release cylinder bore for rust and damage.
- Measure the release cylinder bore at three locations (bottom, middle and top) with a cylinder gauge and replace the release cylinder assembly if the clearance to the piston outside exceeds the limit.

Limit : 0.15 mm (.006 in.)

# 6-14 CLUTCH – Clutch Release Cylinder / Clutch Disc and Release Fork



## SERVICE POINTS OF REASSEMBLY

N06LDAB

### 5. APPLICATION OF FLUID TO PISTON AND CUP

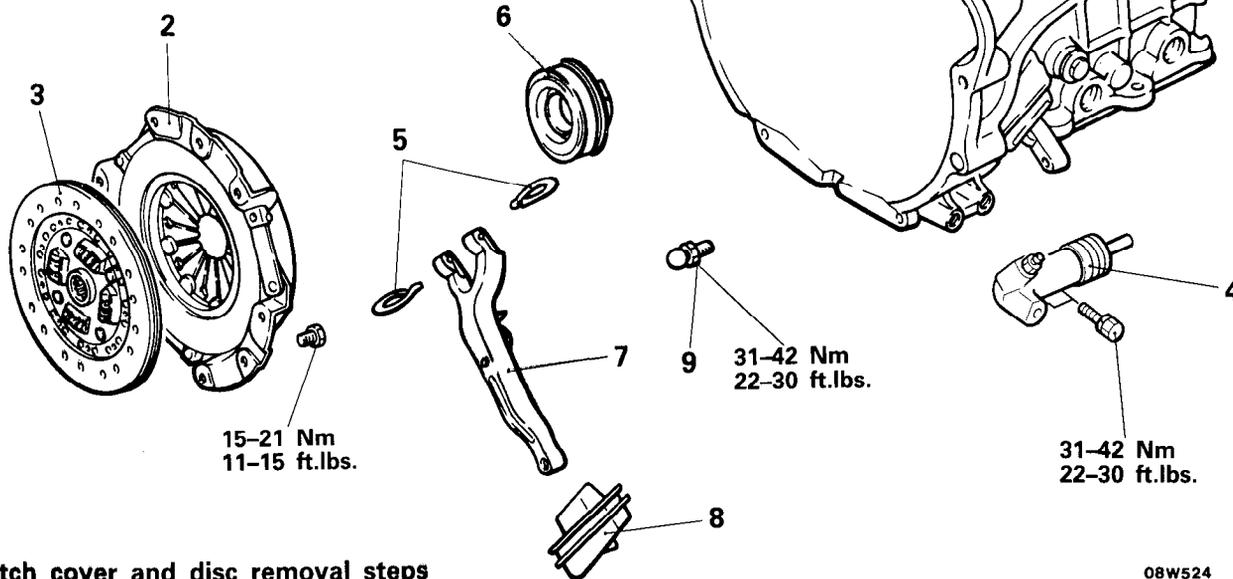
After applying a coating of the specified brake fluid to the inner surface of the release cylinder body and to the entire circumference of the piston and cup, insert the piston and cup into the release cylinder.

**Specified brake fluid : DOT 3**

## CLUTCH DISC AND RELEASE FORK REMOVAL AND INSTALLATION

### Post-installation Operation

- Adjustment of Clutch Pedal (Refer to P.6-6.)



### Clutch cover and disc removal steps

- ◄◄ ◄◄ 1. Transmission case assembly
- ◄◄ ◄◄ 2. Clutch cover assembly
- ◄◄ 3. Clutch disc

### Clutch release bearing and release fork removal steps

- ◄◄ ◄◄ 1. Transmission case assembly
- ◄◄ 4. Clutch release cylinder
- 5. Return clip

- ◄◄ ◄◄ 6. Clutch release bearing
- ◄◄ ◄◄ 7. Release fork
- 8. Release fork boot
- 9. Fulcrum

### NOTE

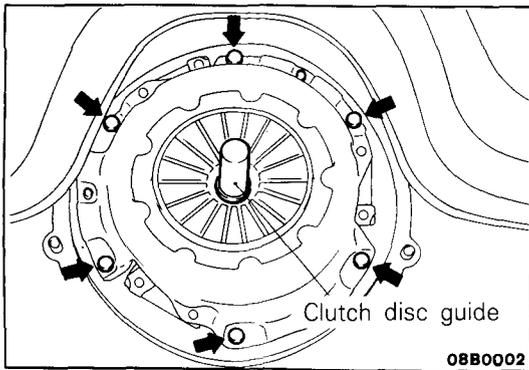
- (1) Reverse the removal procedures to reinstall.
- (2) ◄◄ : Refer to "Service Points of Removal."
- (3) ◄◄ : Refer to "Service Points of Installation."

## SERVICE POINTS OF REMOVAL

N06QBAB

### 1. REMOVAL OF TRANSMISSION CASE ASSEMBLY

Refer to GROUP 21 TRANSMISSION – Transmission case Assembly.

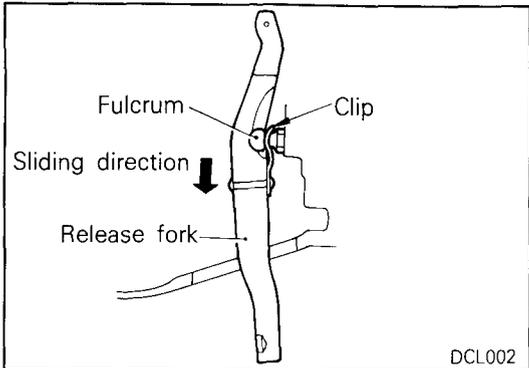


## 2. REMOVAL OF CLUTCH COVER ASSEMBLY

- (1) Insert clutch disc guide, or main drive gear of transmission in center spline to prevent dropping of clutch disc.
- (2) Diagonally loosen bolts retaining clutch cover to flywheel.  
Back off bolts, one or two turns at a time, in succession, to avoid bending cover flange.

### Caution

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



## 7. REMOVAL OF RELEASE FORK

Slide release fork in direction of arrow to disengage fulcrum from clip.

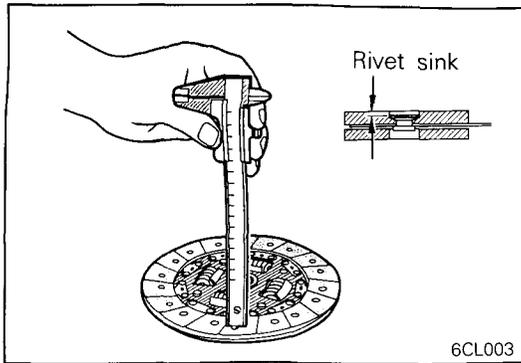
### Caution

**Attempting to remove release fork by sliding it in other direction will result in damage to clip.**

## CLEANING AND INSPECTION

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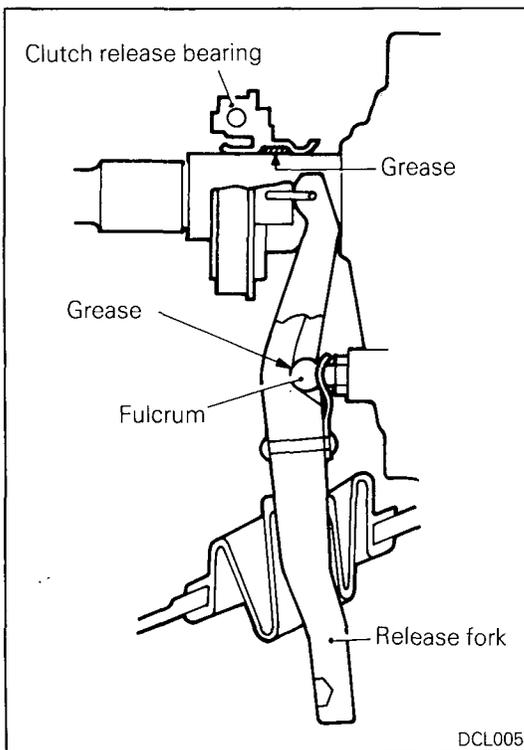
- Clean clutch dust from clutch housing with vacuum brush or shop towel. Do not use compressed air. Inspect for oil leakage through engine rear main bearing oil seal and transmission front oil seal. If leakage is noted, it should be corrected at this time.
- Friction face of pressure plate should have a uniform appearance throughout entire disc contact area. If there is evidence of heavy contact on one portion of wear circle and a very light contact 180 degrees from that portion, pressure plate may be improperly mounted or sprung.
- Friction face of flywheel should also be free from excessive discoloration, burned areas, small cracks, deep grooves, or ridges.
- Wipe friction surface of pressure plate with a cleaning solvent.
- Using a straight edge, check pressure plate for flatness. The pressure plate friction area should be flat within 0.5 mm (.020 in.) and free from discoloration, burned area, cracks, grooves or ridges.
- Visually inspect the cover outer mounting flange for flatness. It should be free of nicks, burrs, dents or other damage.
- The three dowels on the flywheel should be tight and undamaged.  
The cover stamping should be a snug fit on the dowels.
- If the clutch assembly does not meet these requirements, it should be replaced.

**CLUTCH DISC**

- (1) The disc assembly should be handled without touching facings. Replace disc if facings show evidence of grease or oil soakage.
- (2) Use the caliper gauge to measure the dimension from the facing surface to the rivet head.

**Limit : 0.3 mm (.012 in.)**

- (3) If the measured value is below the limit, replace the clutch disc.
- (4) The hub splines and splines on transmission input shaft should be a snug fit without signs of excessive wear.
- (5) Metallic portions of disc assembly should be dry and clean and show no evidence of having been hot. Each of the arched springs between facings should be unbroken and all rivets should be tight.

**SERVICE POINTS OF INSTALLATION**

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**7. APPLICATION OF GREASE TO RELEASE FORK**

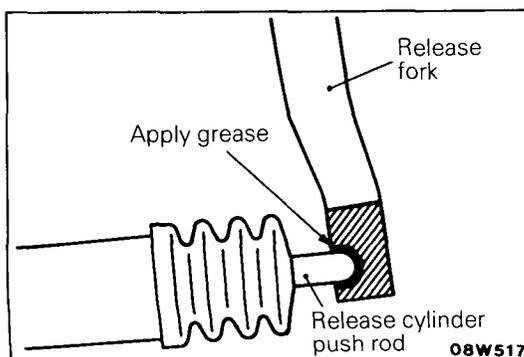
Pack the release fork fulcrum hole with specified grease.

**Specified grease : MITSUBISHI Genuine Grease Part No. 0101011**

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

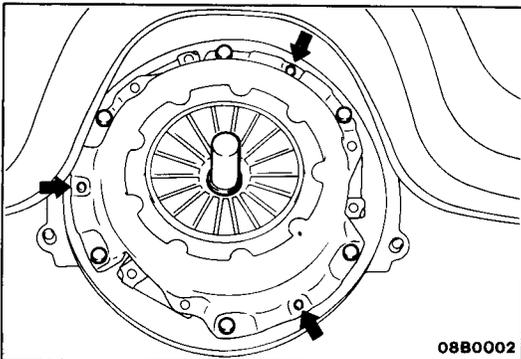
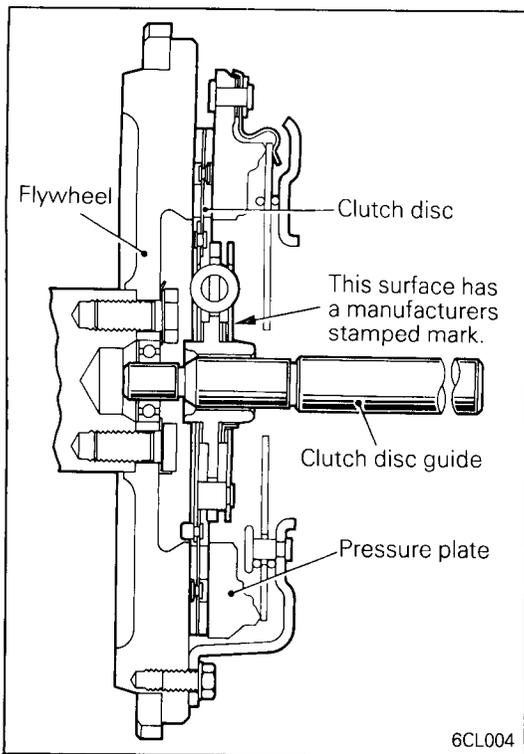
Pack specified grease in groove on clutch release bearing I.D.

**Specified grease : MITSUBISHI Genuine Grease Part No. 0101011 or equivalent**

**4. APPLICATION OF GREASE TO CLUTCH RELEASE CYLINDER**

Apply specified grease to release fork to release cylinder push rod contacting surfaces.

**Specified grease : MITSUBISHI Genuine Grease Part No. 0101011**



### 3. INSTALLATION OF CLUTCH DISC/2. CLUTCH COVER ASSEMBLY

- (1) If there are oils or greases on clutch facing and pressure plate, thoroughly wipe away with a dry cloth.
- (2) Lightly specified grease clutch disc spline.

**Specified grease : MITSUBISHI Genuine Grease Part No. 0101011**

- (3) Using clutch disc guide, or main drive gear of transmission, install clutch disc and clutch cover assembly on flywheel.
- (4) When installing clutch disc, be sure that surface having manufacturers stamped mark is on pressure plate side.

- (5) When installing the clutch cover assembly, align the clutch cover assembly's dowel pin hole and the flywheel's dowel pin, and then gradually tighten the bolts alternately.

### 1. INSTALLATION OF TRANSMISSION CASE ASSEMBLY

Refer to GROUP 21 TRANSMISSION–Transmission case Assembly.