

DESCRIPTION

CLUTCH PEDAL ADJUSTMENT

1. Check the clutch pedal for the adjustment height.

2. Adjust the clutch pedal height.

3. Measure the distance between the clutch pedal and the floor.

4. The distance between the clutch pedal and the floor should be 110 mm (4 3/8 in).

5. If the distance is not 110 mm (4 3/8 in), adjust the clutch pedal height.

6. The clutch pedal height should be 110 mm (4 3/8 in).

7. Measure the distance between the clutch pedal and the floor.

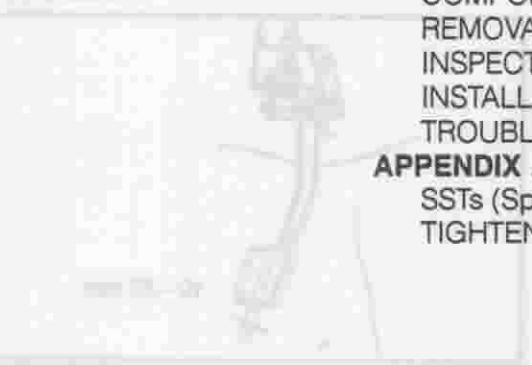
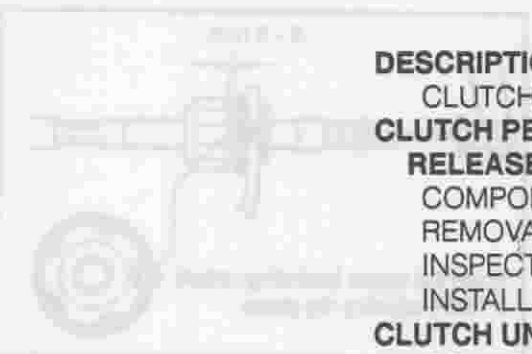
8. The distance between the clutch pedal and the floor should be 110 mm (4 3/8 in).

9. If the distance is not 110 mm (4 3/8 in), adjust the clutch pedal height.

10. The clutch pedal height should be 110 mm (4 3/8 in).



CLUTCH



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DESCRIPTION

CLUTCH PEDAL ADJUSTMENT

1. Check the clutch pedal for the installation height.

Pedal installation height

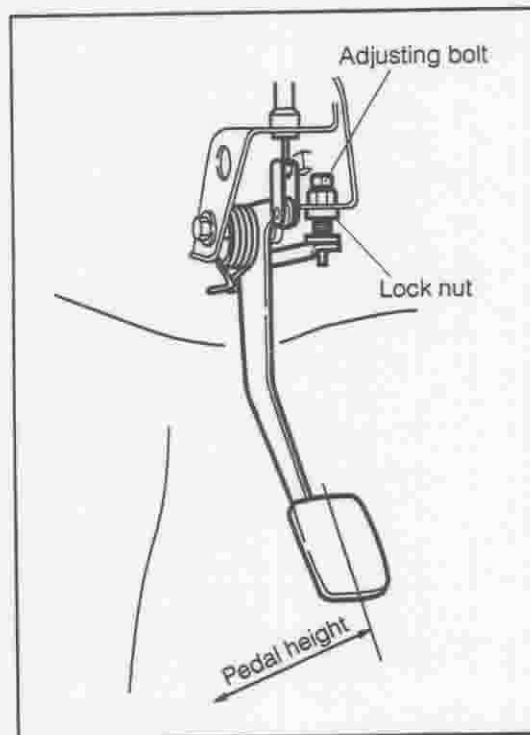
Distance between pedal pad upper surface's center
and dash panel: 165 - 170 mm (LHD)
168 - 173 mm (RHD)

2. Adjust the pedal installation height, as required.

(1) Slacken the lock nut. Turn the adjusting bolt until the
installation height conforms to the specification.

(2) Tighten the lock nut.

Tightening Torque: Refer to page MT-62.



LCL00002-00001

3. Clutch cable adjustment

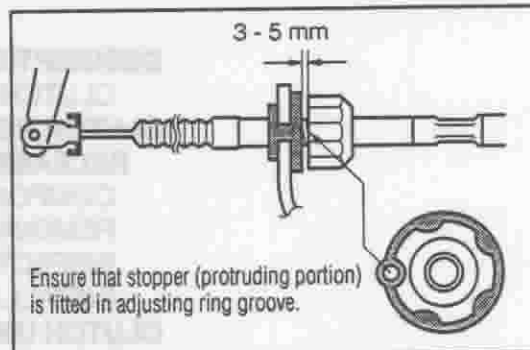
(1) Pull the outer cable lightly with a force of 2 - 5 kg.

Check the clearance.

3 - 5 mm

(2) Ensure that the stopper (protruding portion) is fitted
securely in the adjusting ring groove.

(3) Adjusting position of clutch outer cable

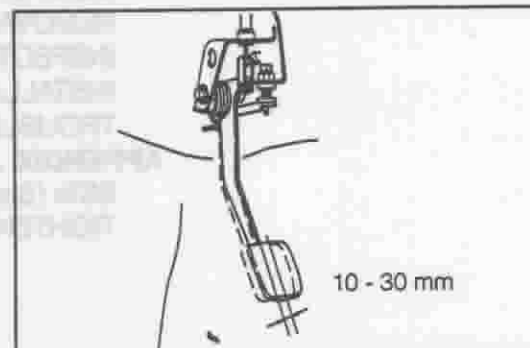


LCL00003-00002

4. Adjust the clutch pedal free travel.

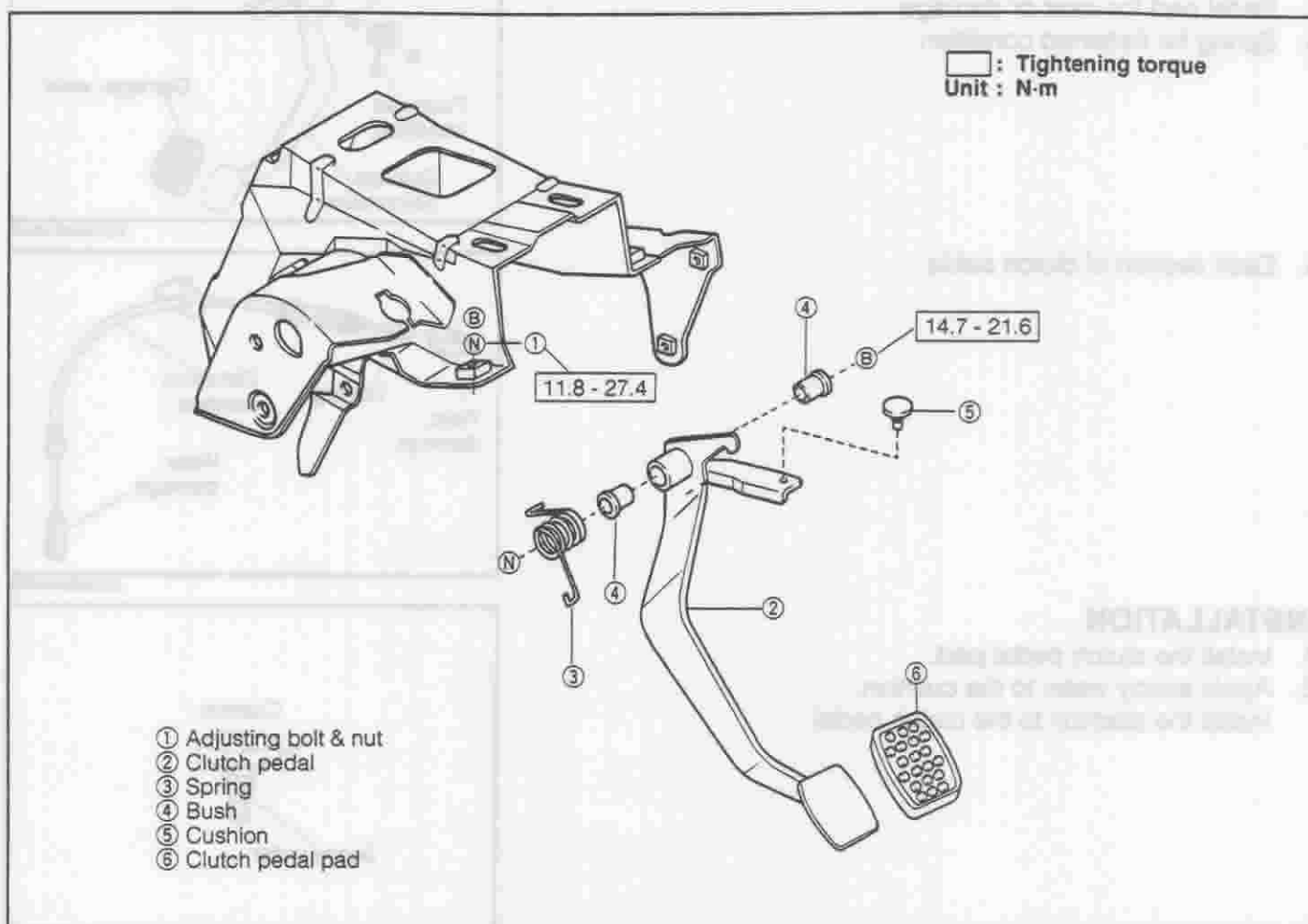
Depress the clutch pedal gradually until you feel a resis-
tance from the clutch. Measure the depressing distance
up to this point.

Pedal Free Travel: 10 - 30 mm



LCL00004-00003

CLUTCH PEDAL AND CLUTCH RELEASE CABLE COMPONENTS



LCL00005-00004

REMOVAL

1. Remove the instrument panel finish lower panel.
2. Remove the nut and the adjusting bolt ①.
3. Remove the bolt.
4. Remove the clutch pedal ②.
5. Remove the spring ③.
6. Remove the bush ④.
7. Remove the cushion ⑤.
8. Remove the clutch pedal pad ⑥.

LCL00006-00000

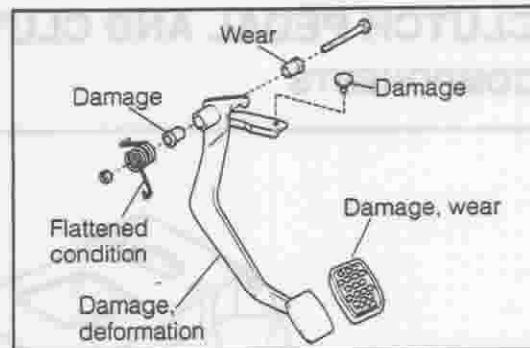
INSPECTION

Inspect the following parts.

LCL00007-00000

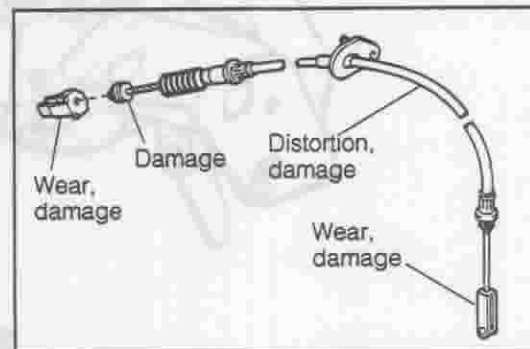


1. Bush for wear or damage
2. Pedal spacer for wear or damage
3. Pedal for damage or deformation
4. Pedal pad for wear or damage
5. Spring for flattened condition



LCL00008-00005

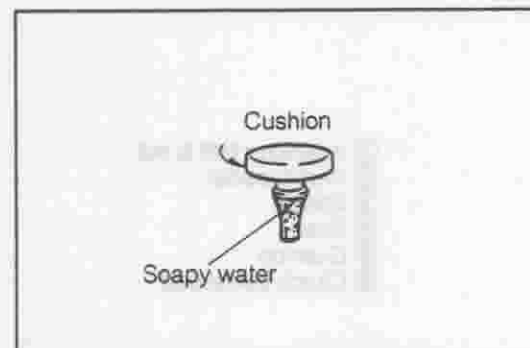
6. Each section of clutch cable



LCL00009-00006

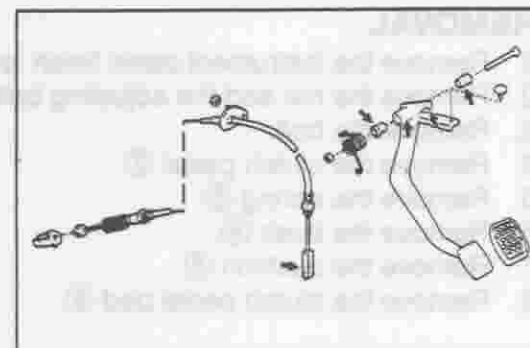
INSTALLATION

1. Install the clutch pedal pad.
2. Apply soapy water to the cushion.
Install the cushion to the clutch pedal.



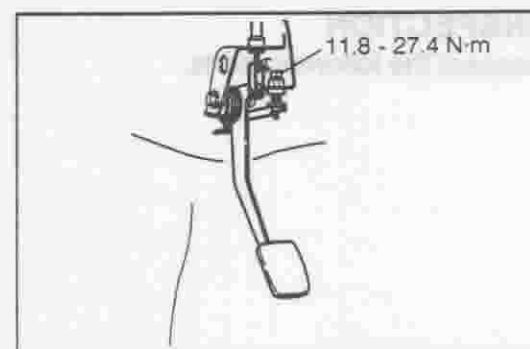
LCL00010-00007

3. Apply MP grease to the following points.
 - (1) Inside of bush.
 - (2) Connecting section of clutch pedal and release cable.
4. Install the spring, bush and spacer to the clutch pedal assembly. Then, install the assembly to the pedal bracket.
5. Install the bolt with washer in position.



LCL00011-00008

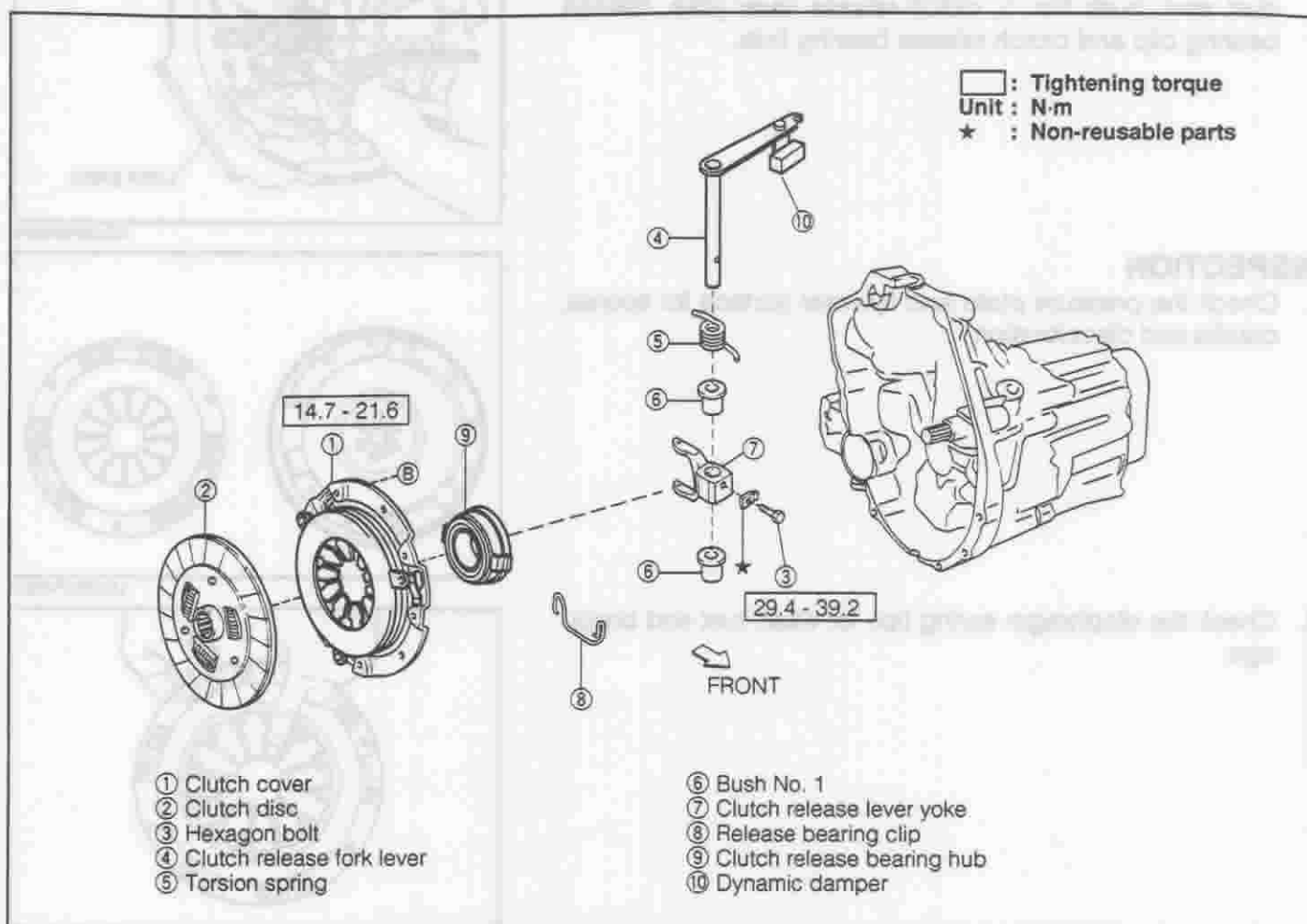
6. Install the adjusting bolt.
7. Tighten the nut.
Tightening Torque: Refer to page MT-62.



LCL00012-00009

8. Depress the clutch pedal two or three times. Proceed to adjust the clutch pedal, following the procedure at page MT-54.

CLUTCH UNIT COMPONENTS



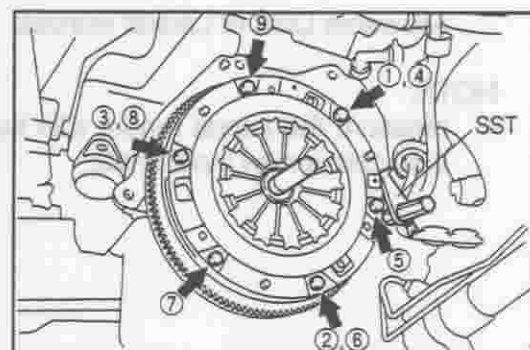
LCL00013-00010

REMOVAL

1. Remove transmission assembly from vehicle.

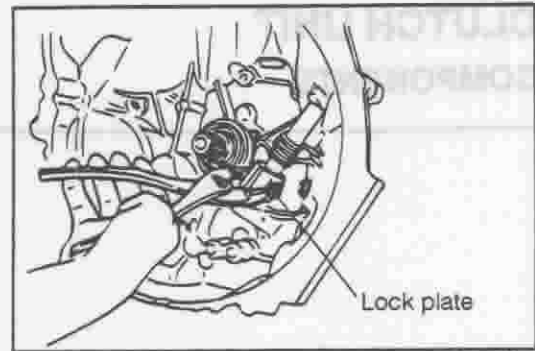
LCL00014-00000

2. Remove clutch cover from flywheel. Take out clutch disc.
SST: 09210-87701-000



LCL00015-00011

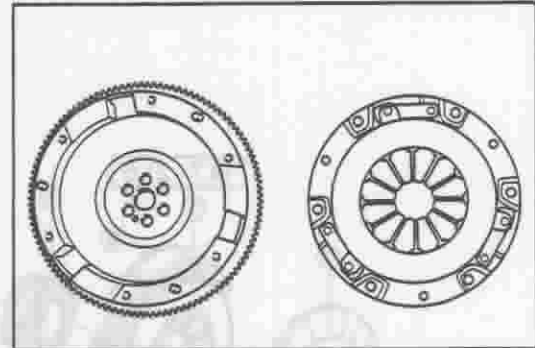
3. Release lock plate. Proceed to remove lock plate along with bolt.
4. Pull out clutch release fork lever. Remove torsion spring, dust seal, bush No. 1, clutch release lever yoke, release bearing clip and clutch release bearing hub.



LCL00016-00012

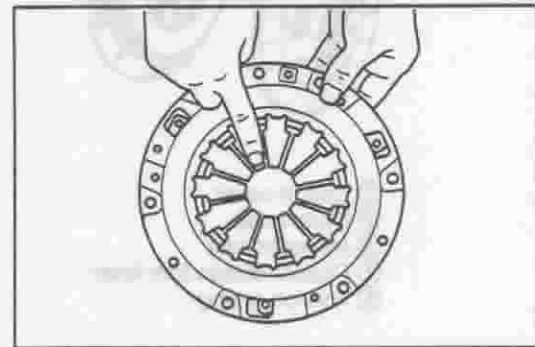
INSPECTION

1. Check the pressure plate and flywheel surface for scores, cracks and discoloration.



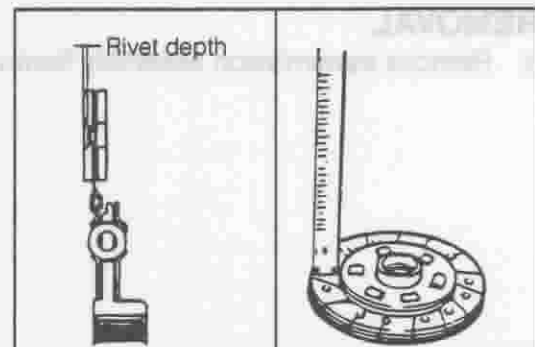
LCL00017-00013

2. Check the diaphragm spring tips for wear, rust and breakage.



LCL00018-00014

3. Check the clutch disc for wear and runout.
Allowable Wear Limit (Rivet Depth): 0.3 mm

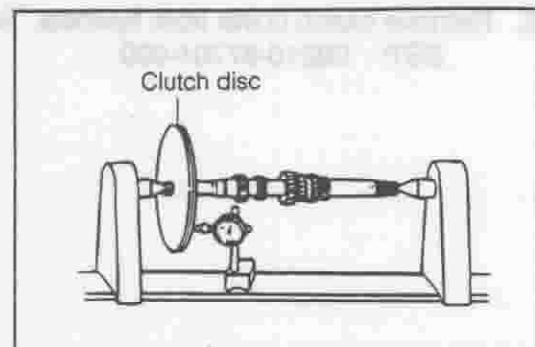


LCL00019-00015

Allowable Limit of Lateral Runout: 1.0 mm

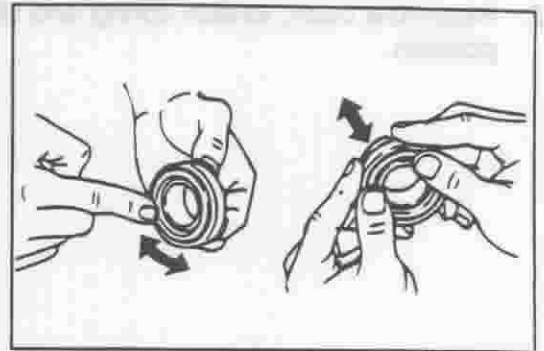
NOTE:

- Measure the lateral runout with the clutch disc assembled onto a new input shaft.



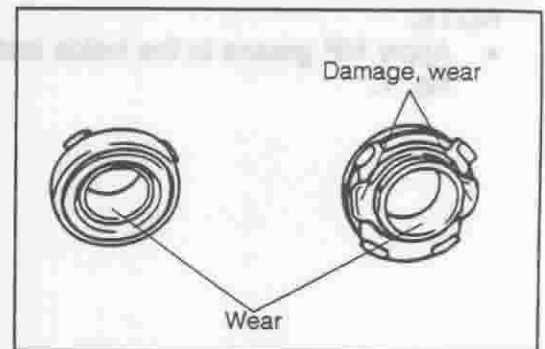
LCL00020-00016

4. Check to see if release bearing rotates smoothly. Rotate release bearing by your hand, while applying a pressure to the bearing in a thrust direction. Check to see if bearing rotates without any abnormal feeling or binding.



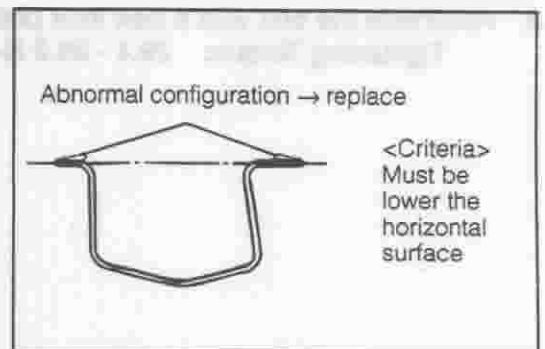
LCL00021-00017

5. Check release bearing hub, clip-contacting surface and hub-to-housing sliding section for damage and wear.



LCL00022-00018

6. Check to see if the clip has the configuration as shown in the figure in its horizontal plane.

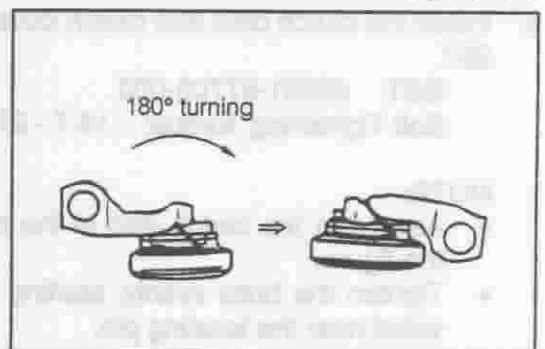


LCL00023-00019

INSTALLATION

1. Assemble clutch release bearing hub and release bearing clip to the clutch release lever yoke.

(1) Bring the cut-out section of the release lever yoke in contact with the clip.

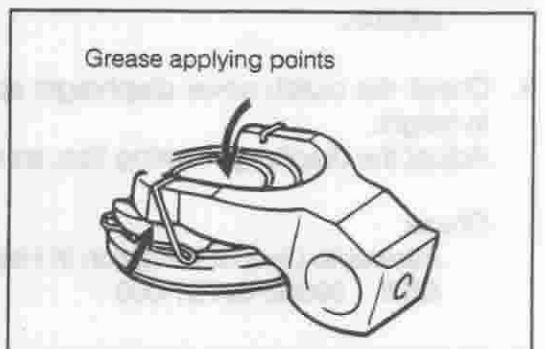


LCL00024-00020

(2) Under the condition described in (1), assemble the lever yoke by turning it 180 degrees.

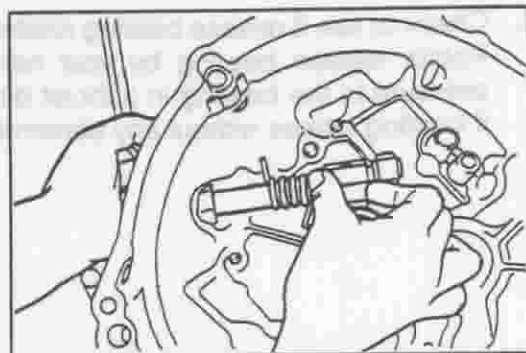
NOTE:

- Apply EP grease to the yoke-to-hub sliding section and bearing-to-housing case sliding section.



LCL00025-00021

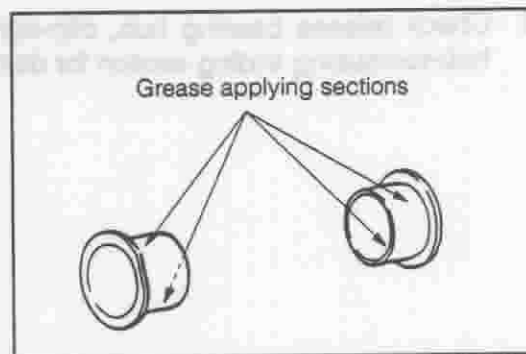
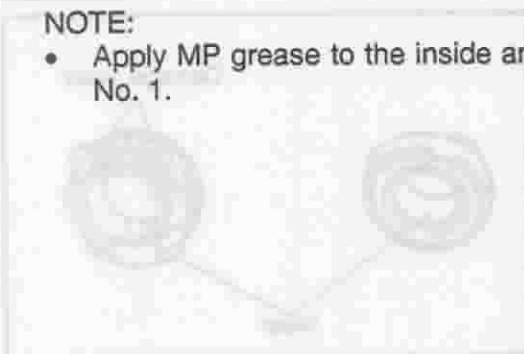
2. Assemble bush, torsion spring and clutch release lever in position.



LCL00026-00022

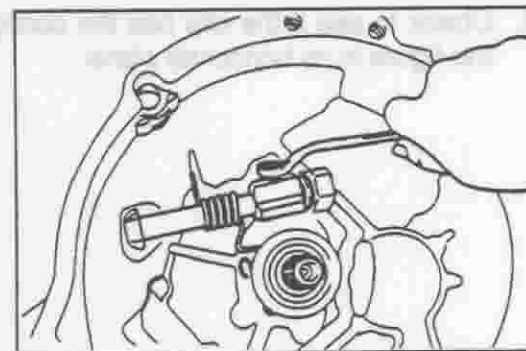
NOTE:

- Apply MP grease to the inside and outside of the bush No. 1.



LCL00027-00023

3. Assemble the bolt with a new lock plate interposed.
Tightening Torque: 29.4 - 39.2 N·m



LCL00028-00024

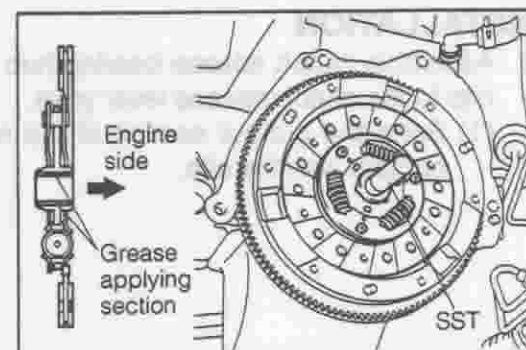
4. Install the clutch disc and clutch cover, using the following SST.

SST: 09301-87703-000

Bolt Tightening Torque: 14.7 - 21.6 N·m

NOTE:

- Assemble the clutch disc in the direction as shown in the figure.
- Tighten the bolts evenly, starting with those bolts provided near the locating pin.
- Apply long-life chassis grease to the clutch disc splined section.



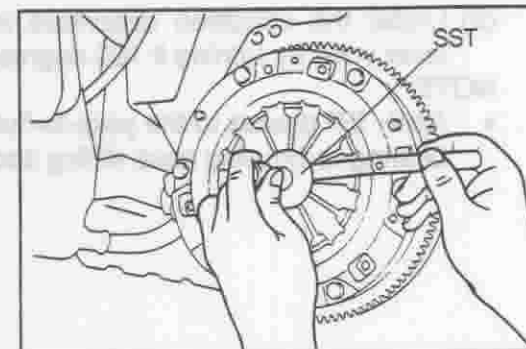
LCL00029-00025

5. Check the clutch cover diaphragm spring tips for variation in height.
Adjust the diaphragm spring tips, as required.

Check

Allowable Limit of Deviation in Height: 0.6 mm

SST: 09302-87701-000

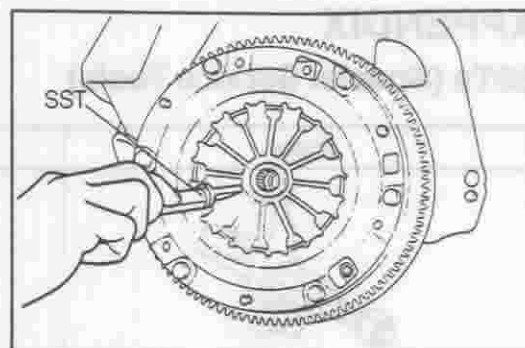


LCL00030-00026

Adjustment

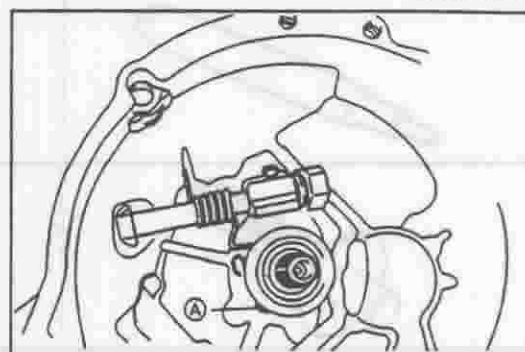
Align the diaphragm spring tips at such a height that makes the number of tips to be adjusted at a minimum number.

SST: 09333-00013-000



LCL00031-00027

6. Check release hub and yoke for proper operation.
Operate the clutch release lever about 50 times. Check the section A of the clip. If the clip exhibits excessive spread and there is a likelihood that the clip may be detached, replace it with a new clip.
7. Install the transmission assembly to the engine.



LCL00032-00028

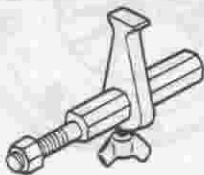
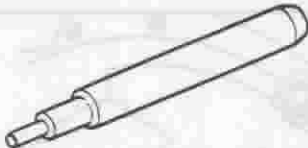
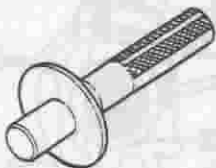
TROUBLE SHOOTING

Symptom	Possible causes	Remedies	Page
Gear shifting is hard or impossible	- Excessive clutch pedal free travel. - Excessive clutch disc runout, or damaged lining. - Faulty clutch pressure plate. - Input shaft or disc splined section contaminated or sticking.	- Adjust clutch pedal free travel. - Check clutch disc. - Repair, as required. - Replace clutch cover.	CL-1 CL-5 CL-5 CL-5
Slipping clutch	- Improper clutch pedal free travel. - Worn or oily clutch disc linings. - Faulty pressure plate. - Flattened diaphragm spring.	- Adjust clutch pedal free travel. - Replace clutch disc. - Replace clutch cover. - Replace clutch cover.	CL-1 CL-5 CL-5 CL-5
Grabbing and chattering clutch	- Worn or oily clutch disc linings. - Faulty pressure plate. - Flattened disc torsion spring. - Bent diaphragm spring.	- Check clutch disc and replace, as required. - Replace clutch cover. - Replace clutch disc. - Replace clutch cover.	CL-5
Clutch noises	- Parts in housing loose. - Worn or contaminated release bearing. - Release fork and linkage seized.	- Repair, as required. - Replace release bearing. - Repair, as required.	CL-5
Dragging clutch (Poor clutch disengagement)	- Clutch pedal free travel improperly adjusted. - Flattened diaphragm spring, or worn tip end of spring.	- Adjust clutch pedal free travel. - Replace clutch cover.	CL-1 CL-5

LCL00033-00000

APPENDIX

SSTs (Special Service Tools)

Shape	Part No.	Part name
	09210-87701-000	Flywheel holder
	09301-87703-000	Clutch guide tool
	09302-87701-000	Clutch gauge
	09333-00013-000	Clutch aligner

LCL00034-00000

TIGHTENING TORQUE

Tightening components	Tightening torque	
	N·m	kgf·m
Clutch adjusting bolt × Brake pedal bracket	11.8 - 27.4	1.2 - 2.8
Clutch pedal bolt × Nut	14.7 - 21.6	1.5 - 2.2
Clutch cover × Flywheel	14.7 - 21.6	1.5 - 2.2
Clutch release fork lever × Clutch release lever yoke	29.4 - 39.2	3.0 - 4.0

LCL00035-00000