
DAIHATSU

G202

Chassis

CLUTCH

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CL

DESCRIPTION

CLUTCH PEDAL ADJUSTMENT

1. Check the clutch pedal for the installation height.

Pedal installation height

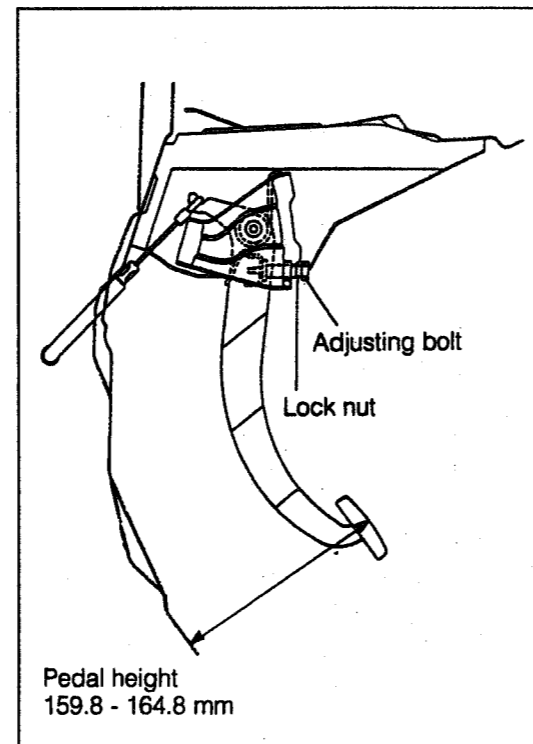
Distance between pedal pad upper surface's center and dash panel:
159.8 - 164.8 mm

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: 11.8 - 27.4 N·m
(1.2 - 2.8 kgf·m, 8.7 - 20.2 ft·lb)



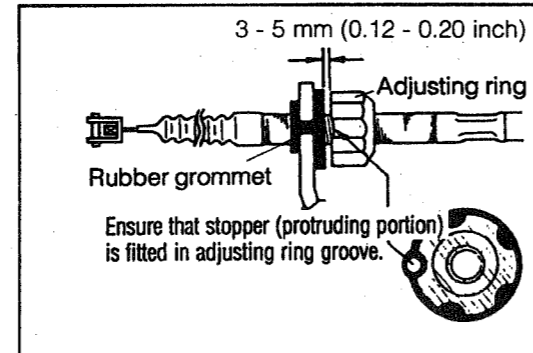
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3. Clutch cable adjustment

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

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

(3) Adjusting position of clutch outer cable
3 - 5 mm

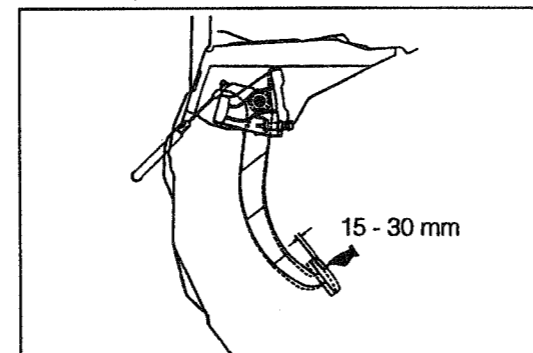


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4. Adjust the clutch pedal free travel.

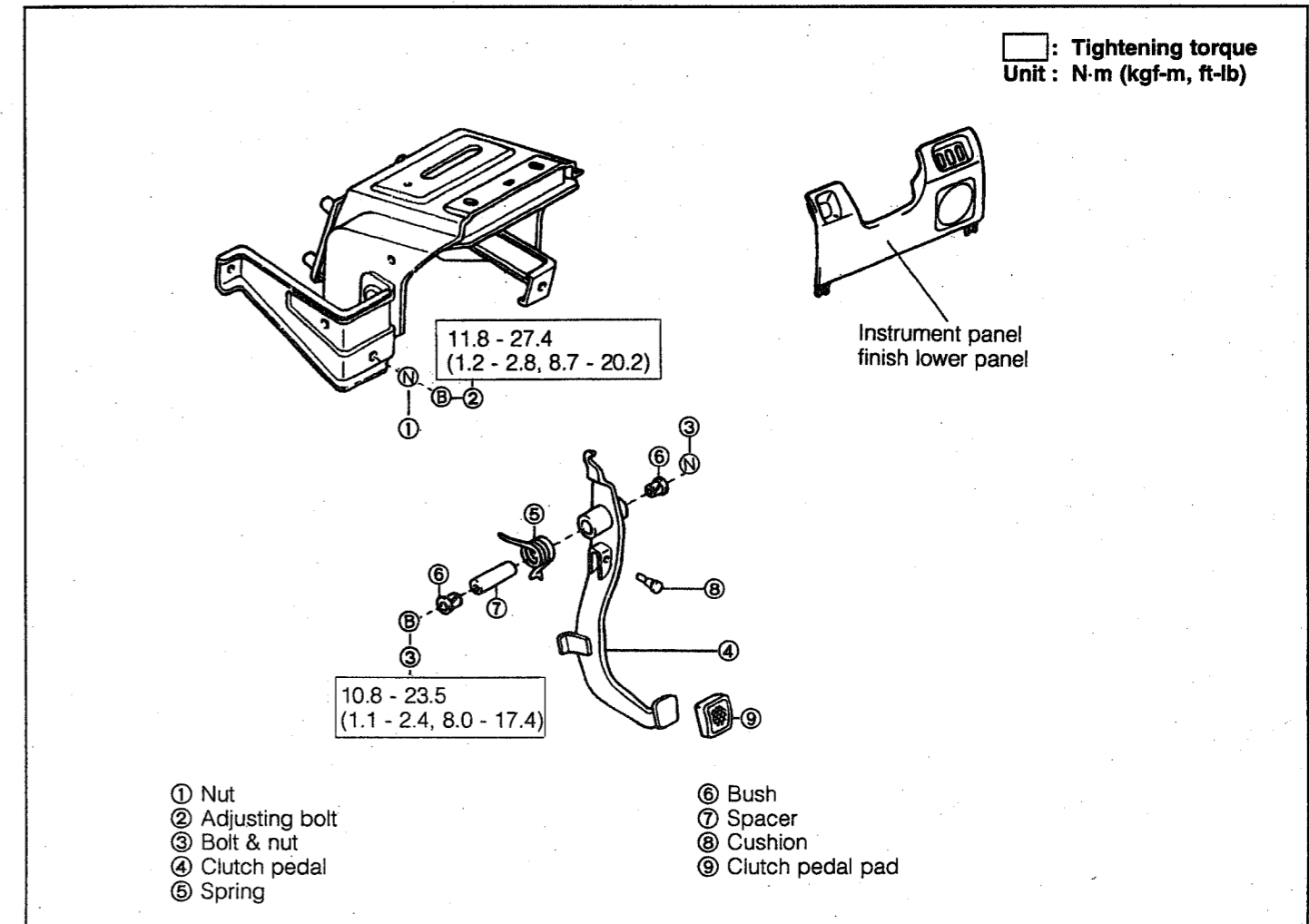
Depress the clutch pedal gradually until you feel a resistance from the clutch. Measure the depressing distance up to this point.

Pedal Free Travel: 15 - 30 mm



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CLUTCH PEDAL AND CLUTCH RELEASE CABLE COMPONENTS



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REMOVAL

1. Remove the instrument panel finish lower panel.
2. Remove the nut ① and the adjusting bolt ②.
3. Remove the bolt ③.
4. Remove the clutch pedal ④.
5. Remove the spring ⑤.
6. Remove the bush ⑥.
7. Remove the spacer ⑦.
8. Remove the cushion ⑧.
9. Remove the clutch pedal pad ⑨.

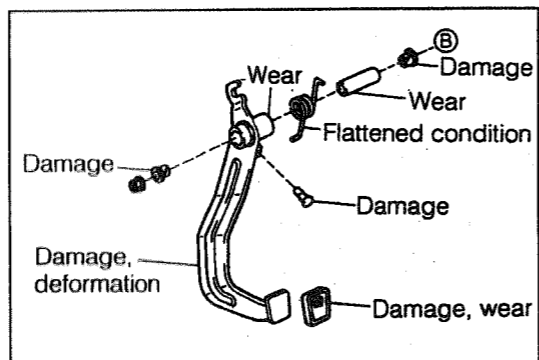
INSPECTION

Inspect the following parts.

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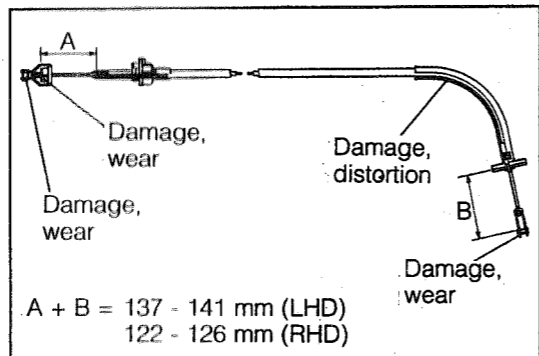
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1. Bush for wear or damage
2. Pedal spacer for wear or damage
3. Pedal for damage or deformation
4. Pedal pad for wear or damage
5. Spring for flattened condition



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6. Each section of clutch cable

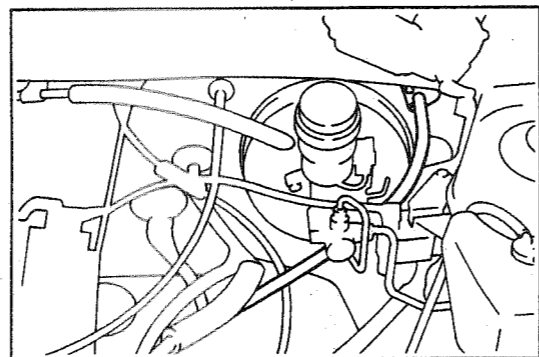


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INSTALLATION

1. Install the clutch pedal pad.
2. Apply soapy water to the cushion. Install the cushion to the clutch pedal.
3. Install the clutch cable to the engine compartment.

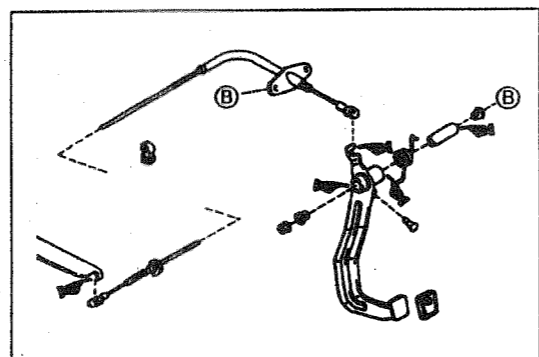
Tightening Torque: 3.9 - 6.9 N·m
(0.4 - 0.7 kgf·m, 2.9 - 5.1 ft·lb)



G2CL00010-99999

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

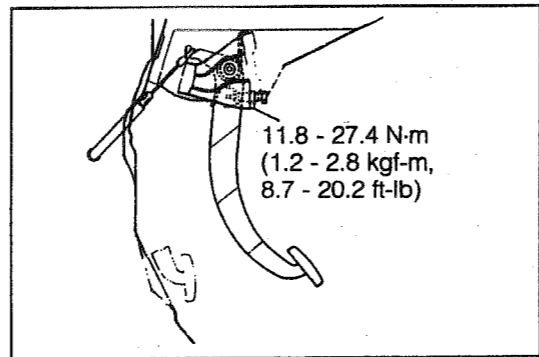
Tightening Torque: 10.8 - 23.5 N·m
(1.1 - 2.4 kgf·m, 8.0 - 17.4 ft·lb)



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7. Install the adjusting bolt.
8. Tighten the nut.

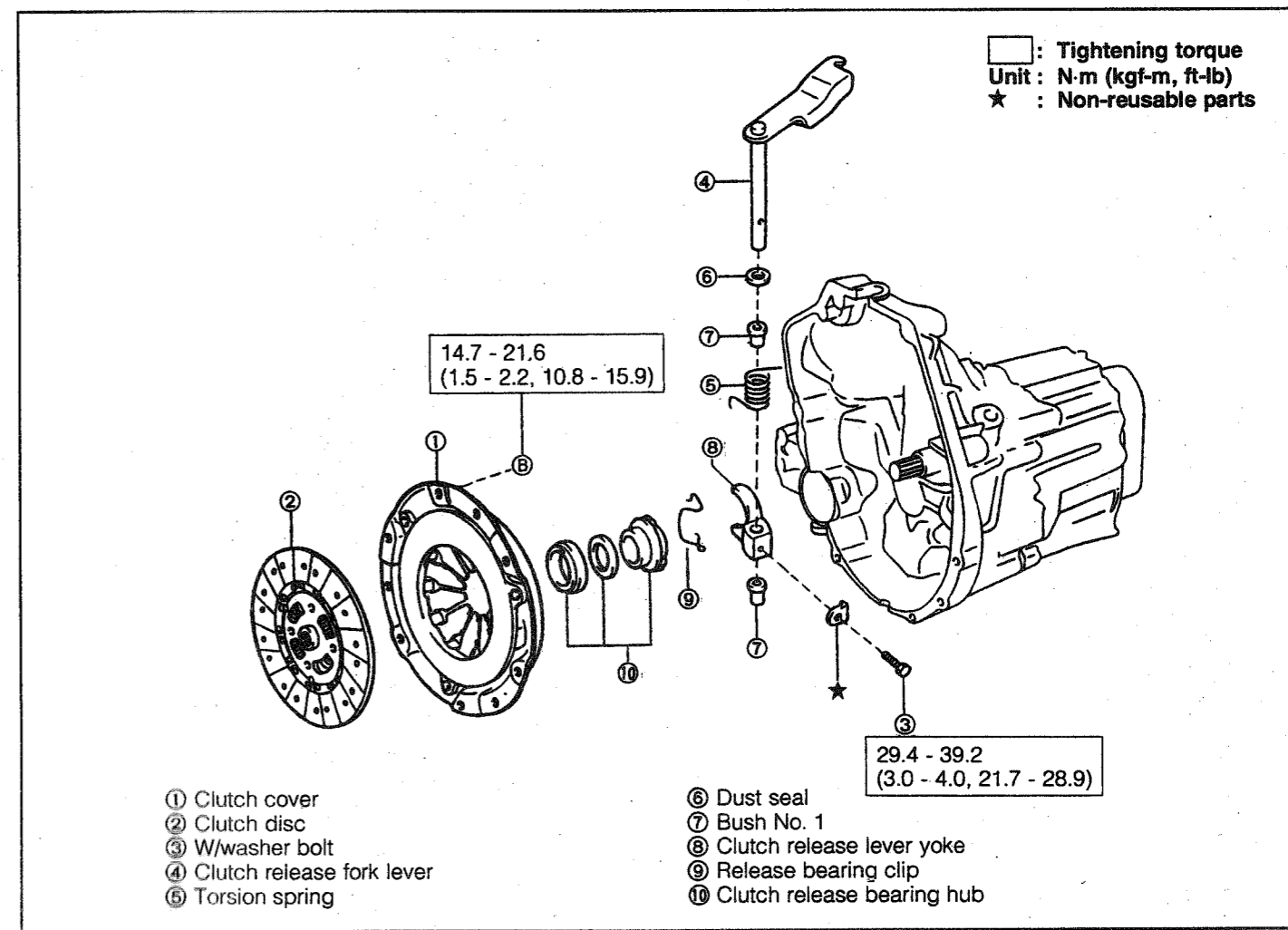
Tightening Torque: 11.8 - 27.4 N·m
(1.2 - 2.8 kgf·m, 8.7 - 20.2 ft·lb)



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9. Depress the clutch pedal two or three times. Proceed to adjust the clutch pedal, following the procedure at page CL-2.

CLUTCH UNIT COMPONENTS

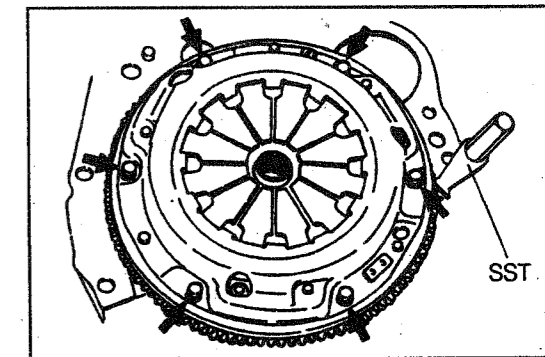


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REMOVAL

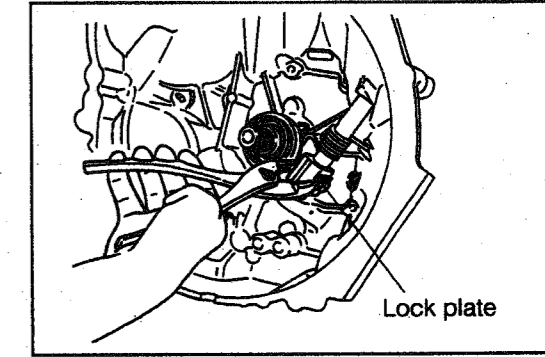
1. Remove the transmission assembly from the vehicle.
2. Remove the clutch cover from the flywheel. Take out the clutch disc.

SST: 09210-87701-000



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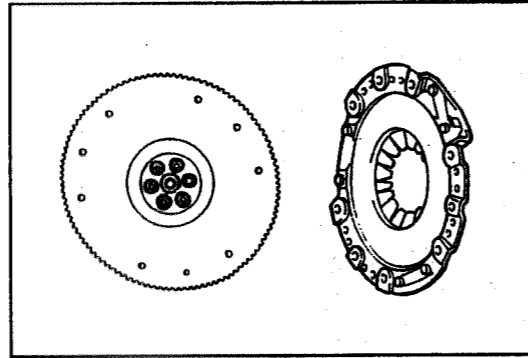
3. Release the lock plate. Proceed to remove the lock plate along with the bolt.
4. Pull out the clutch release fork lever. Remove the torsion spring, dust seal, bush No. 1, clutch release lever yoke, release bearing clip and clutch release bearing hub.



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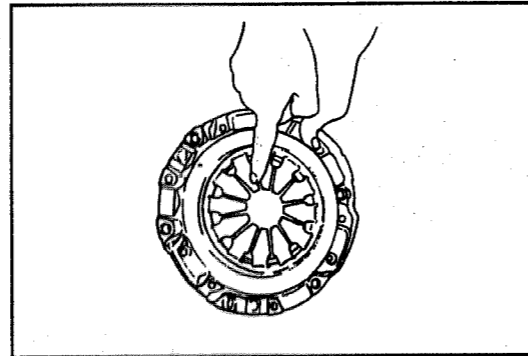
INSPECTION

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



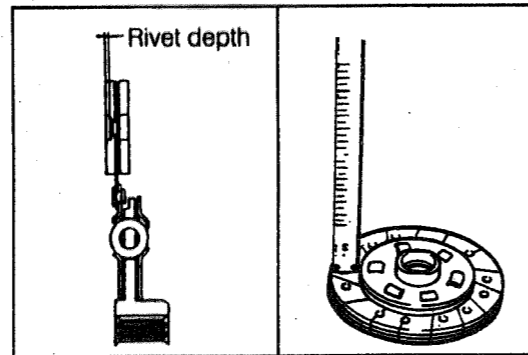
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2. Check the diaphragm spring tips for wear, rust and breakage.



G2CL00017-99999

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

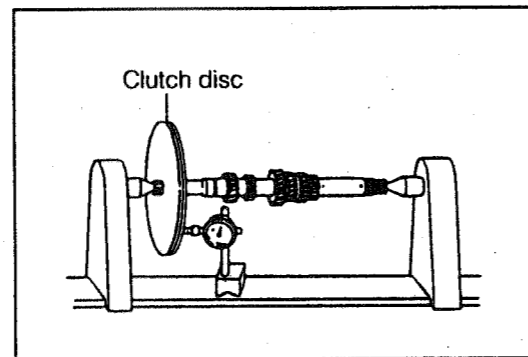


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Allowable Limit of Lateral Runout: 1.0 mm

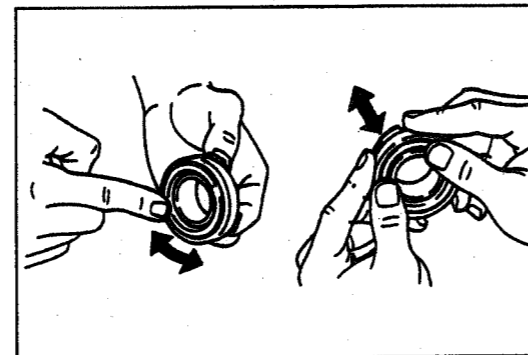
NOTE:

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



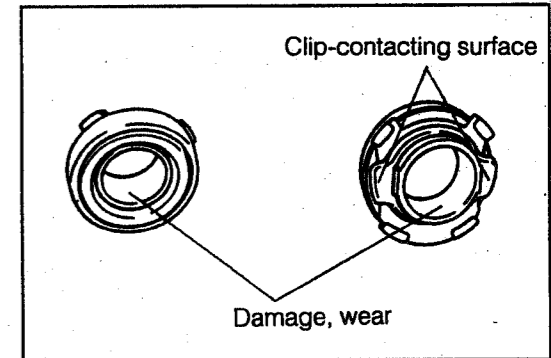
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4. Check to see if the release bearing rotates smoothly. Rotate the release bearing by your hand, while applying a pressure to the bearing in a thrust direction. Check to see if the bearing rotates without any abnormal feeling or binding.



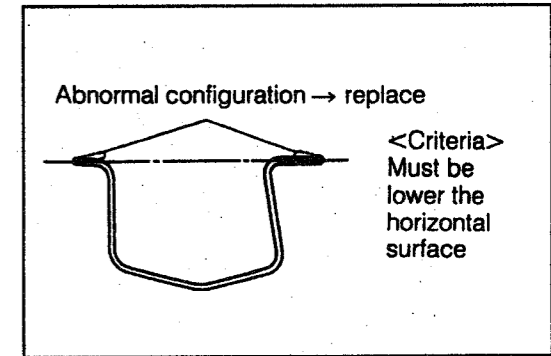
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5. Check the release bearing hub, clip-contacting surface and hub-to-housing sliding section for damage and wear.



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

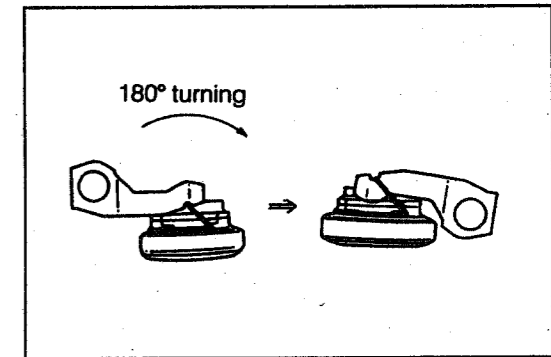


G2CL00022-99999

INSTALLATION

1. Assemble the 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.

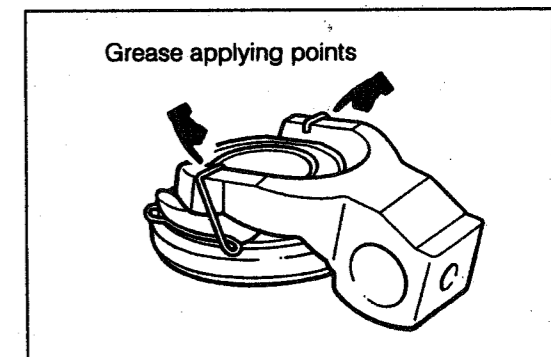


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- (2) Under the condition described in (1), assemble the lever yoke by turning it 180 degrees.

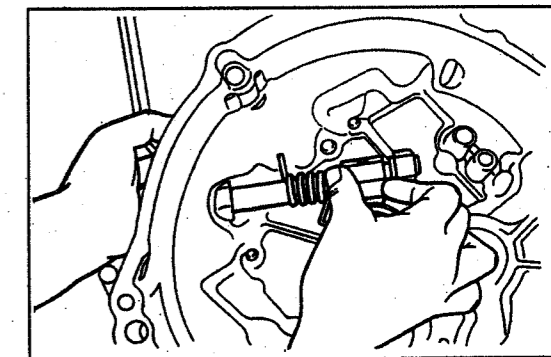
NOTE:

- Apply long-life chassis grease to the yoke-to-hub sliding section and bearing-to-housing case sliding section.



G2CL00024-99999

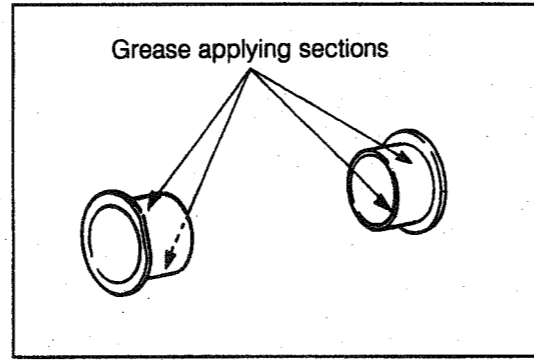
2. Assemble the bush, dust seal, torsion spring and clutch release lever in position.



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NOTE:

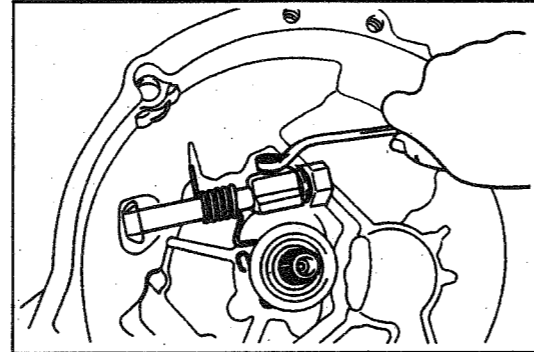
- Apply long-life chassis grease to the inside and outside of the bush No. 1.



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- Assemble the bolt with washer, with a new lock plate interposed.

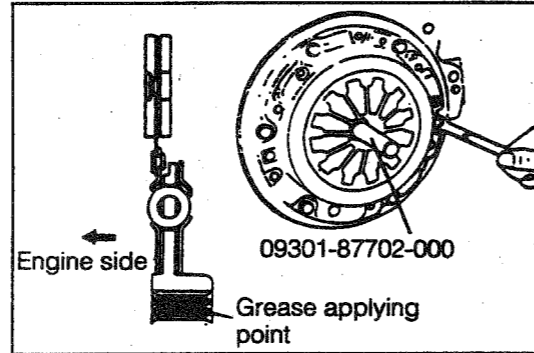
Tightening Torque: 29.4 - 39.2 N·m
(3.0 - 4.0 kgf·m, 21.7 - 28.9 ft·lb)



G2CL00027-99999

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

SST: 09301-87702-000
Bolt Tightening Torque: 14.7 - 21.6 N·m
(1.5 - 2.2 kgf·m, 10.8 - 15.9 ft·lb)

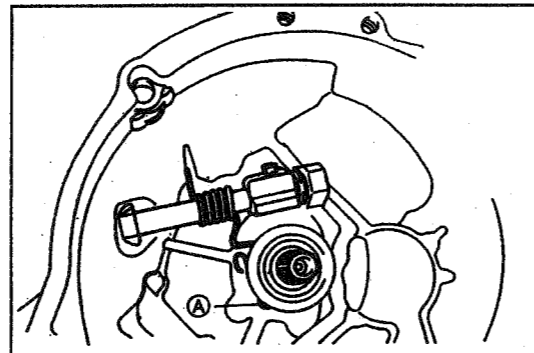


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NOTE:

- 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.

- Check the 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.
- Install the transmission assembly to the vehicle.



G2CL00029-99999

SST (Special Service Tools)

Shape	Part No. and name	Purpose	Remarks
	09210-87701-000 Fly wheel holder	Preventing crankshaft from turning	
	09301-87702-000 Clutch guide tool	Assembling clutch	

G2CL00030-99999

SERVICE SPECIFICATIONS

Item		Specified value	Allowable limit	Remarks
Clutch pedal	Installation height	159.8 - 164.8		
	Free travel	15 - 30 (0.59 - 1.18)	—	
Clutch disc	Runout	—	1.34 (0.528)	
	Lining wear	—	0.3 (0.012)	Revet depth
Clutch cable	Free travel	3 - 5 (0.12 - 0.20)		

G2CL00031-00000

TIGHTENING TORQUE

Tightening components	Tightening torque		
	N·m	kgf·m	ft·lb
Clutch cover	14.7 - 21.6	1.5 - 2.2	10.8 - 15.9
Clutch release lever x Release lever yoke	29.4 - 39.2	3.0 - 4.0	21.7 - 28.9

G2CL00032-00000

TROUBLE SHOOTING

Symptom	Possible causes	Remedies	Page
Gear shifting is hard or impossible.	<ul style="list-style-type: none"> Excessive clutch pedal free travel. Excessive clutch disc runout, or damaged lining. Input shaft or disc splined section contaminated or sticking. Faulty clutch pressure plate. 	<ul style="list-style-type: none"> Adjust clutch pedal free travel. Check clutch disc. Repair, as required. Replace clutch cover. 	CL-2 CL-6 CL-7 CL-5
Slipping clutch	<ul style="list-style-type: none"> Improper clutch pedal free travel. Worn or oily clutch disc linings. Faulty pressure plate. Flattened diaphragm spring. 	<ul style="list-style-type: none"> Adjust clutch pedal free travel. Replace clutch disc. Replace clutch cover. Replace clutch cover. 	CL-2 CL-5 CL-5 CL-5
Grabbing and chattering clutch	<ul style="list-style-type: none"> Worn or oily clutch disc linings. Faulty pressure plate. Flattened disc torsion spring. Bent diaphragm spring. 	<ul style="list-style-type: none"> Check clutch disc and replace, as required. Replace clutch cover. Replace clutch disc. Replace clutch cover. 	CL-6 CL-5 CL-5 CL-5
Clutch noises	<ul style="list-style-type: none"> Parts in housing loose. Worn or contaminated release bearing. Release fork and linkage seized. 	<ul style="list-style-type: none"> Repair, as required. Replace release bearing. Repair, as required. 	CL-7
Dragging clutch (Poor clutch disengagement)	<ul style="list-style-type: none"> Clutch pedal free travel improperly adjusted. Flattened diaphragm spring, or worn tip end of spring. 	<ul style="list-style-type: none"> Adjust clutch pedal free travel. Replace clutch cover. 	CL-2 CL-5

G2CL00033-00000