

CLUTCH – CLUTCH SYSTEM**CL-1****CLUTCH SYSTEM****PROBLEM SYMPTOMS TABLE****HINT:**

Use the table below to help determine the cause of the problem. The numbers indicate the priority of the likely causes of the problem. Check each part in the order. If necessary, replace these parts.

Clutch system

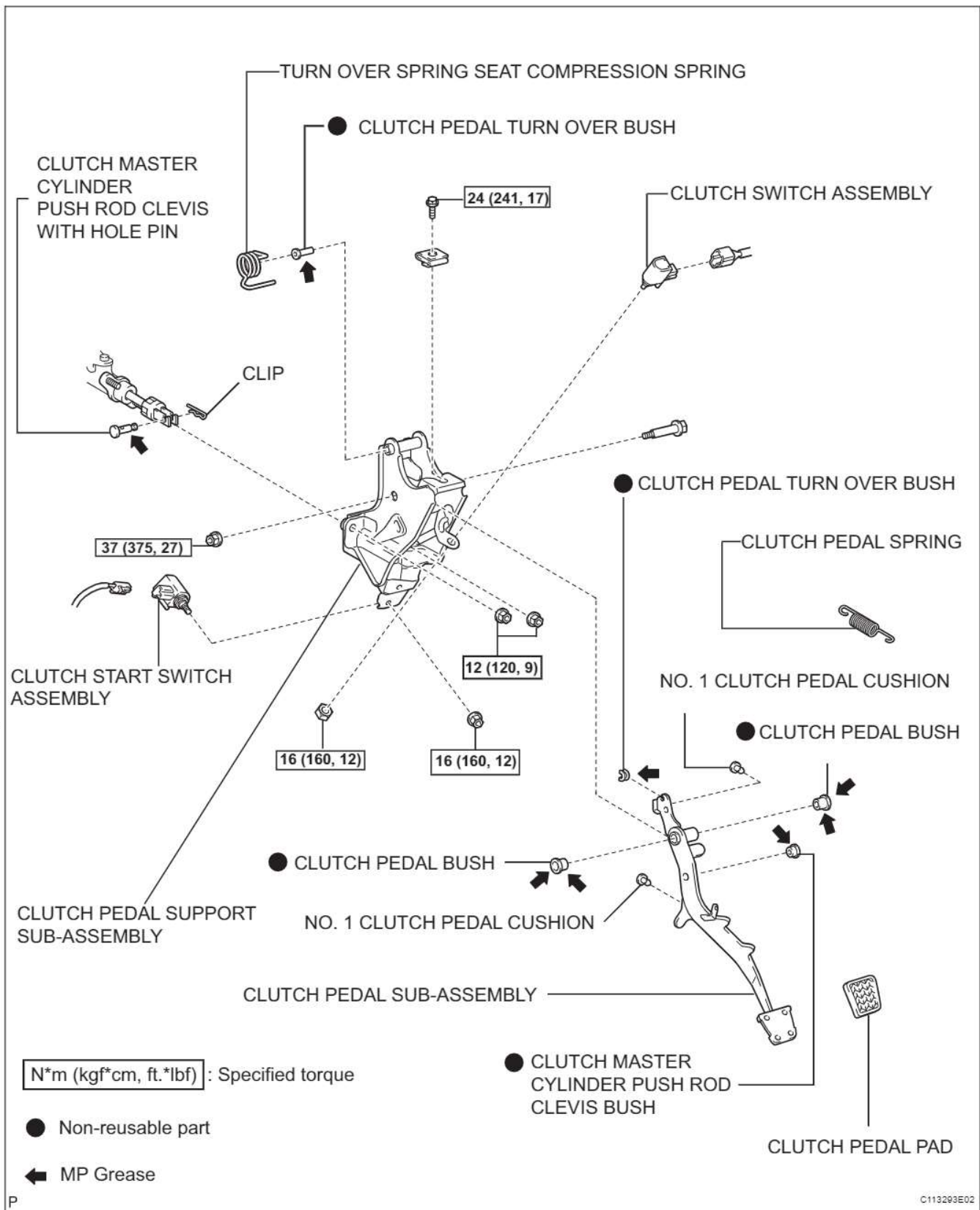
Symptom	Suspected Area	See page
Clutch grabs/chatters	Engine mounting (Loose)	-
	Clutch disc assembly (Runout is excessive)	CL-19
	Clutch disc assembly (Oily)	CL-19
	Clutch disc assembly (Worn out)	MX-32
	Clutch disc torsion rubber (Damaged)	CL-19
	Clutch disc assembly (Glazed)	CL-19
	Diaphragm spring (Out of tip alignment)	CL-19
Clutch pedal is spongy	Clutch line (Air in line)	-
	Master cylinder cup (Damaged)	CL-12
	Release cylinder rubber (Damaged)	CL-16
Clutch is noisy	Clutch release bearing assembly (Worn, dirty, or damaged)	CL-19
	Clutch disk torsion rubber (Damaged)	CL-19
Clutch slips	Clutch pedal (Free play is out of adjustment)	CL-5
	Clutch disc assembly (Oily)	CL-19
	Clutch disc assembly (Worn out)	CL-19
	Diaphragm spring (Damaged)	CL-19
	Pressure plate (Distortion)	CL-19
	Flywheel sub-assembly (Distortion)	-
Clutch does not disengage	Clutch pedal (Free play is out of adjustment)	CL-5
	Clutch line (Air in line)	-
	Master cylinder cup (Damaged)	CL-12
	Release cylinder cup (Damaged)	CL-16
	Clutch disc assembly (Out of true)	CL-19
	Clutch disc assembly (Runout is excessive)	CL-19
	Clutch disc assembly (Lining is broken)	CL-19
	Clutch disc assembly (Dirty or burned)	CL-19
	Clutch disc assembly (Lack of spline grease)	CL-19

CL

CL-2

CLUTCH – CLUTCH PEDAL

CLUTCH PEDAL COMPONENTS



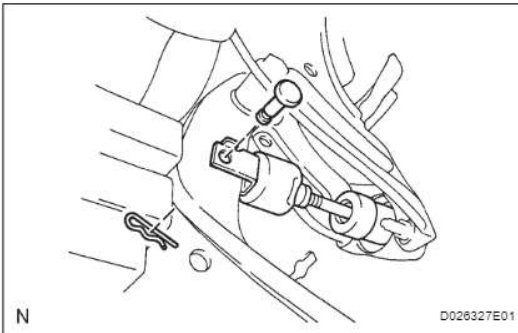
REMOVAL

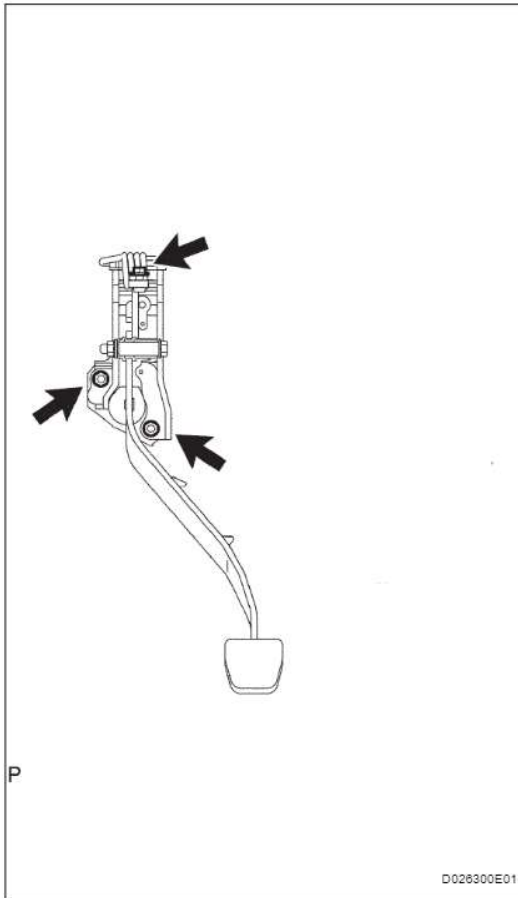
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

CAUTION:

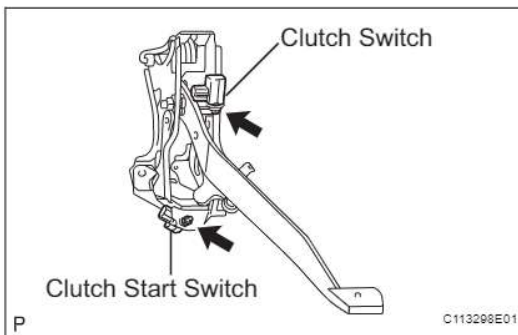
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY LOWER** (See page [IP-19](#))
3. **REMOVE INSTRUMENT PANEL SUB-ASSEMBLY UPPER** (See page [IP-6](#))
4. **DISCONNECT CONNECTOR**
 - (a) Disconnect the clutch start switch connector.
 - (b) Disconnect the clutch switch connector.
5. **REMOVE CLUTCH PEDAL SPRING**
6. **REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS HOLE PIN**
 - (a) Remove the clip and hole pin.



CL-4**CLUTCH – CLUTCH PEDAL****7. REMOVE CLUTCH PEDAL SUPPORT SUB-ASSEMBLY**

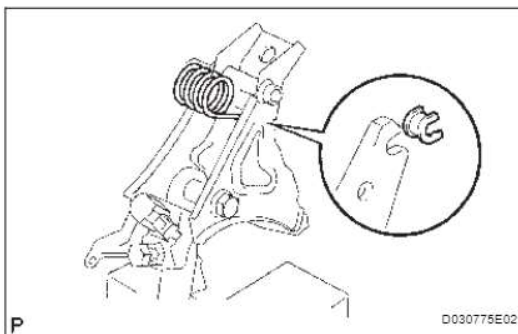
- (a) Remove the 2 nuts, bolt and clutch pedal support.

**DISASSEMBLY****1. REMOVE CLUTCH START SWITCH ASSEMBLY**

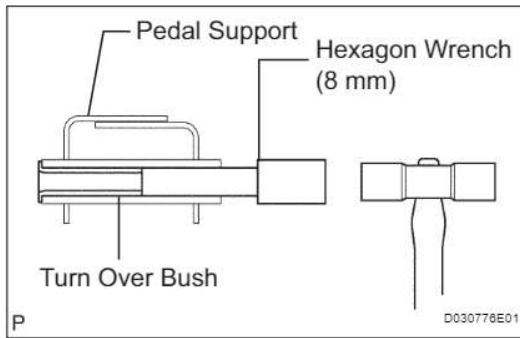
- (a) Remove the nut and clutch start switch.

2. REMOVE CLUTCH SWITCH ASSEMBLY

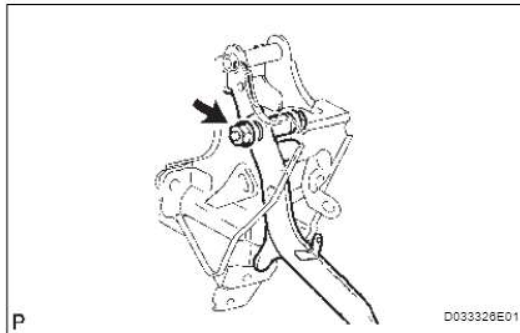
- (a) Remove the nut and clutch switch.

**3. REMOVE TURN OVER SPRING SEAT COMPRESSION SPRING**

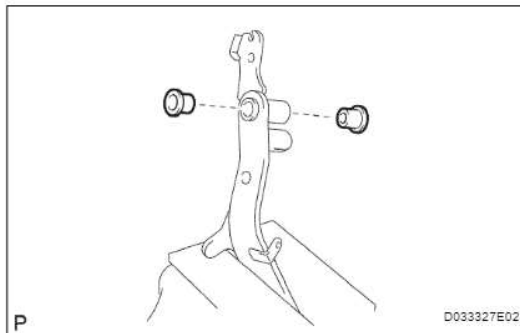
- (a) Mount the clutch pedal in a soft jaw vise.
 (b) Using a screwdriver, remove the spring.
 (c) Remove the turn over bush from the clutch pedal.

CLUTCH – CLUTCH PEDAL**CL-5****4. REMOVE CLUTCH PEDAL TURN OVER BUSH**

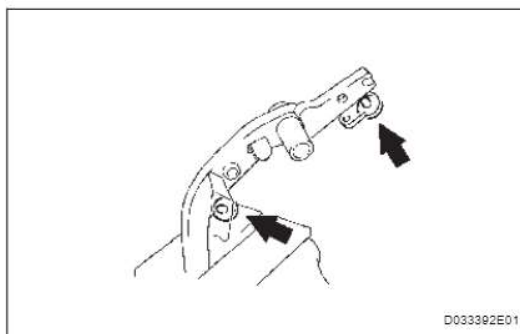
- (a) Using an 8 mm hexagon wrench and hammer, tap out the turn over bush.

**5. REMOVE CLUTCH PEDAL SUB-ASSEMBLY**

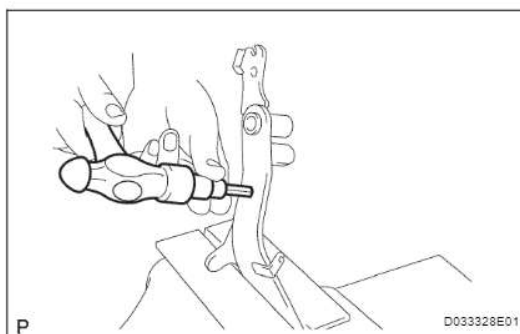
- (a) Remove the bolt and nut.
(b) Remove the clutch pedal from the clutch pedal support.

6. REMOVE CLUTCH PEDAL PAD**7. REMOVE CLUTCH PEDAL BUSH**

- (a) Remove the 2 bushes from the clutch pedal.

**8. REMOVE NO. 1 CLUTCH PEDAL CUSHION**

- (a) Using needle-nose pliers, remove the 2 cushions from the clutch pedal.

**9. REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS BUSH**

- (a) Using an 8 mm hexagon wrench and hammer, remove the clevis bush from the clutch pedal.

CL

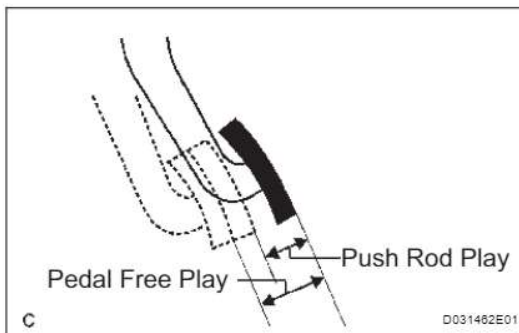
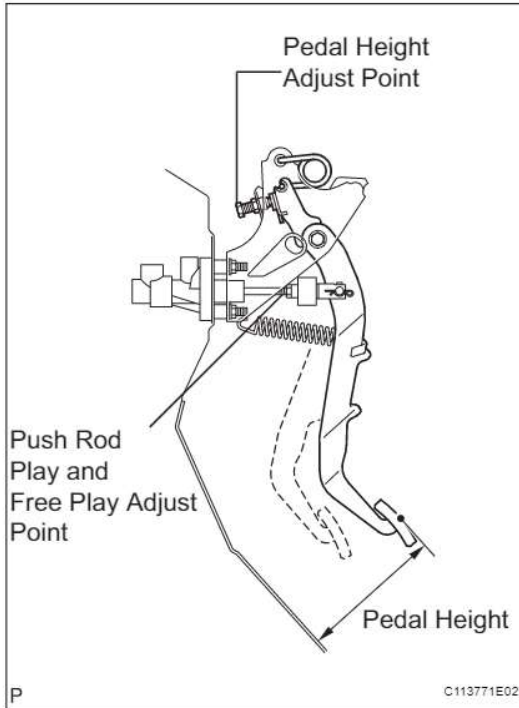
CL-6

CLUTCH – CLUTCH PEDAL

ADJUSTMENT

1. INSPECT AND ADJUST CLUTCH PEDAL HEIGHT

- (a) Turn back the floor carpet to expose the asphalt sheet under the pedal.
- (b) Check that the pedal height is correct.
Standard pedal height from asphalt sheet:
137.6 to 147.6 mm (5.417 to 5.811 in.)
- (c) Adjust the pedal height.
 - (1) Loosen the lock nut and turn the stopper bolt until the correct height is obtained.
 - (2) Tighten the lock nut.
Torque: 25 N*m (250 kgf*cm, 18 ft.*lbf)

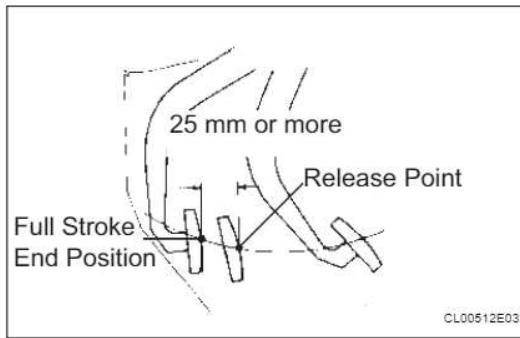


2. INSPECT PEDAL FREE PLAY AND PUSH ROD PLAY

- (a) Check that pedal free play and push rod play are correct.
 - (1) Depress the pedal until clutch resistance begins to be felt.
Standard pedal free play:
5.0 to 15.0 mm (0.197 to 0.591 in.)
 - (2) Gently depress the pedal until the resistance begins to increase a little.
Standard push rod play at pedal top:
1.0 to 5.0 mm (0.039 to 0.197 in.)
- (b) Adjust the pedal free play and push rod play.
 - (1) Remove the No. 1 instrument panel airbag lower (see page [IP-18](#)).
 - (2) Loosen the lock nut and turn the push rod until correct free play and push rod play are obtained.
 - (3) Tighten the lock nut.
Torque: 12 N*m (120 kgf*cm, 9 ft.*lbf)
 - (4) After adjusting the pedal free play, check the pedal height.
 - (5) Install the No. 1 instrument panel airbag lower (see page [IP-22](#)).

CLUTCH – CLUTCH PEDAL

CL-7

**3. INSPECT CLUTCH RELEASE POINT**

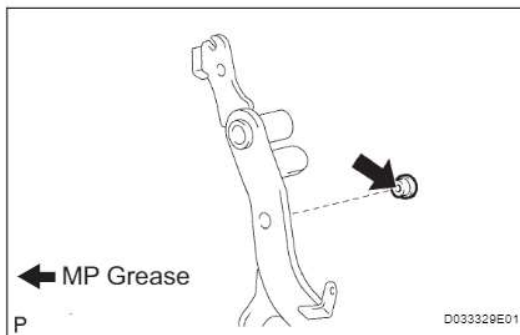
- (a) Check the clutch release point.
 - (1) Pull the parking brake lever and use wheel chocks to secure the vehicle.
 - (2) Start the engine and run it at idle.
 - (3) Without depressing the clutch pedal, slowly move the shift lever into reverse until the gears contact.
 - (4) Gradually depress the clutch pedal and measure the stroke distance from the point that the gear noise stops (release point) up to the full stroke end position.

Standard distance:

25 mm or more (From pedal stroke end position to release point)

If the distance is not as specified, perform the following the operations.

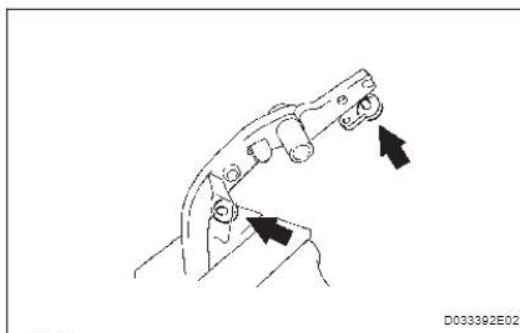
- Check the pedal height.
- Check the push rod play and pedal free play.
- Bleed air from the clutch line.
- Check the clutch cover and disc.

**REASSEMBLY****1. INSTALL CLUTCH MASTER CYLINDER PUSH ROD CLEVIS BUSH**

- (a) Apply MP grease to the inside of a new clevis bush.
- (b) Install the clevis bush to the clutch pedal.

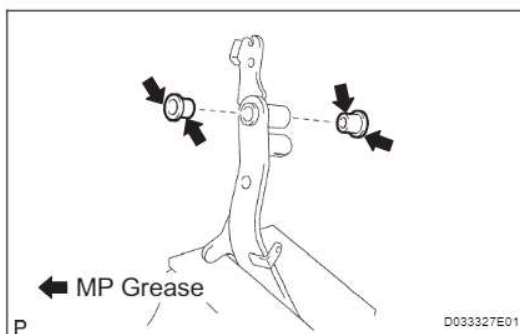
HINT:

Install the clevis bush from the right side of the vehicle.

**2. INSTALL NO. 1 CLUTCH PEDAL CUSHION**

- (a) Using needle-nose pliers, install the 2 cushions to the clutch pedal.

CL

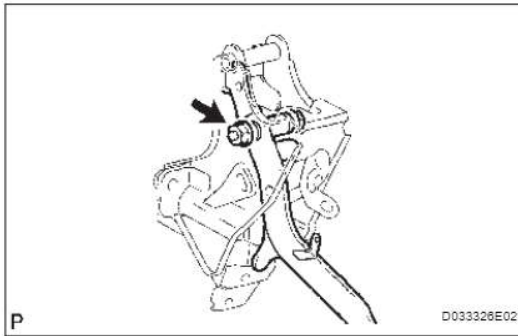
**3. INSTALL CLUTCH PEDAL BUSH**

- (a) Apply MP grease to the inner, outer and end surfaces of 2 new bushes.
- (b) Install the 2 bushes to the clutch pedal.

4. INSTALL CLUTCH PEDAL PAD

CL-8

CLUTCH – CLUTCH PEDAL

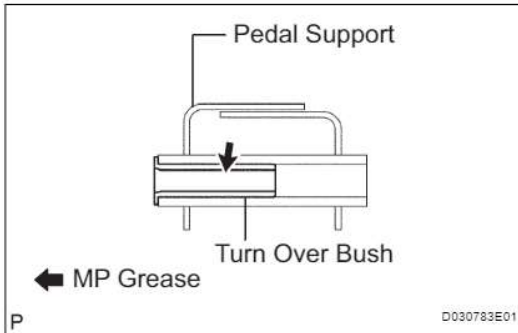
**5. INSTALL CLUTCH PEDAL SUB-ASSEMBLY**

- (a) Install the clutch pedal to the clutch pedal support with the bolt and nut.

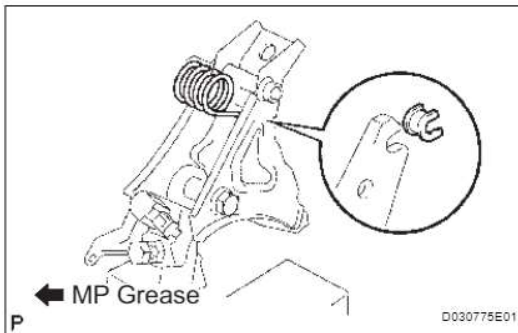
Torque: 37 N*m (375 kgf*cm, 27 ft.*lbf)

HINT:

Install the bolt from the right side of the vehicle.

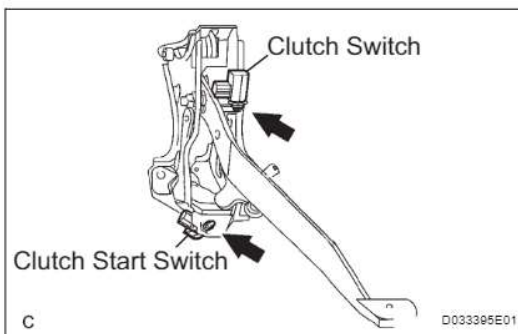
**6. INSTALL CLUTCH PEDAL TURN OVER BUSH**

- (a) Apply MP grease to the inside of a new turn over bush.
(b) Install the turn over bush to the clutch pedal support.

**7. INSTALL TURN OVER SPRING SEAT COMPRESSION SPRING**

- (a) Apply MP grease to the inside of the turn over bush.
(b) Install the turn over bush to the clutch pedal.
(c) Install the spring to the clutch pedal and clutch pedal support.

CL

**8. INSTALL CLUTCH SWITCH ASSEMBLY**

- (a) Install the clutch switch to the clutch pedal with the nut.

Torque: 16 N*m (160 kgf*cm, 12 ft.*lbf)

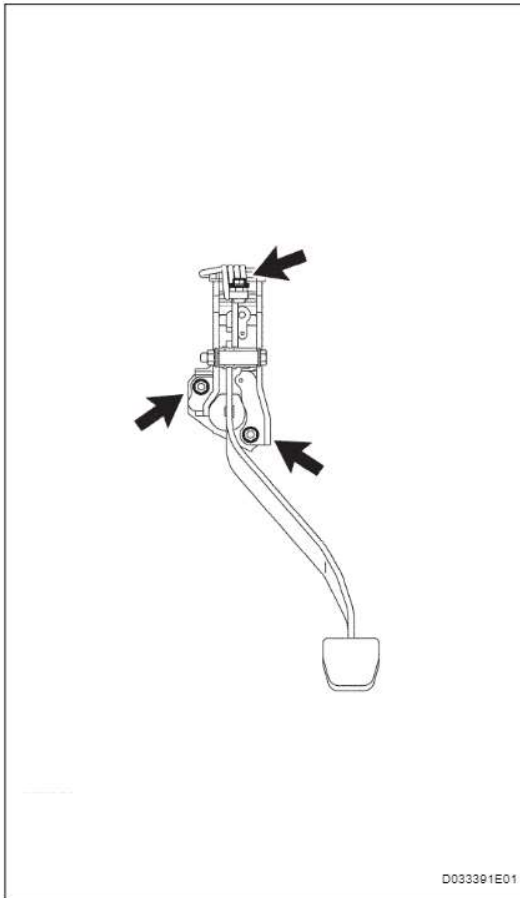
9. INSTALL CLUTCH START SWITCH ASSEMBLY

- (a) Install the clutch start switch to the clutch pedal support with the nut.

Torque: 16 N*m (160 kgf*cm, 12 ft.*lbf)

CLUTCH – CLUTCH PEDAL

CL-9



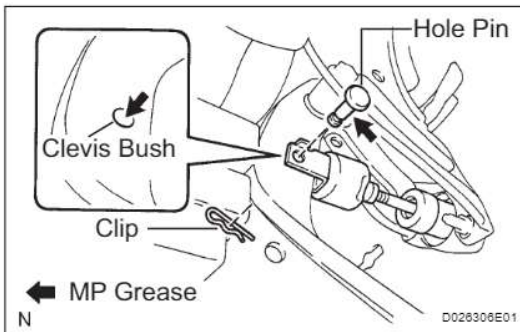
INSTALLATION

1. INSTALL CLUTCH PEDAL SUB-ASSEMBLY

- (a) Install the clutch pedal support to the vehicle with the 2 nuts and bolt.

Torque: 24 N*m (241 kgf*cm, 17 ft.*lbf) for bolt

Torque: 12 N*m (120 kgf*cm, 9 ft.*lbf) for nut



2. INSTALL CLUTCH MASTER CYLINDER PUSH ROD CLEVIS HOLE PIN

- (a) Apply MP grease to the contact surface of the hole pin and clevis bush.

- (b) Connect the clevis to the clutch pedal with the hole pin.

HINT:

Install the hole pin from the right side of the vehicle.

- (c) Install the clip to the hole pin.

3. INSTALL CLUTCH PEDAL SPRING

4. CONNECT CONNECTOR

- (a) Connect the clutch start switch connector.
- (b) Connect the clutch switch connector.

5. INSTALL INSTRUMENT PANEL SUB-ASSEMBLY UPPER (See page [IP-9](#))

6. INSPECT AND ADJUST CLUTCH PEDAL SUB-ASSEMBLY

- (a) Inspect and adjust the clutch pedal (see page [CL-1](#)).

7. INSTALL NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY LOWER (See page [IP-22](#))

8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

CL

CL-10**CLUTCH – CLUTCH PEDAL**

9. PERFORM INITIALIZATION

- (a) Perform initialization (see page [IN-23](#)).

NOTICE:

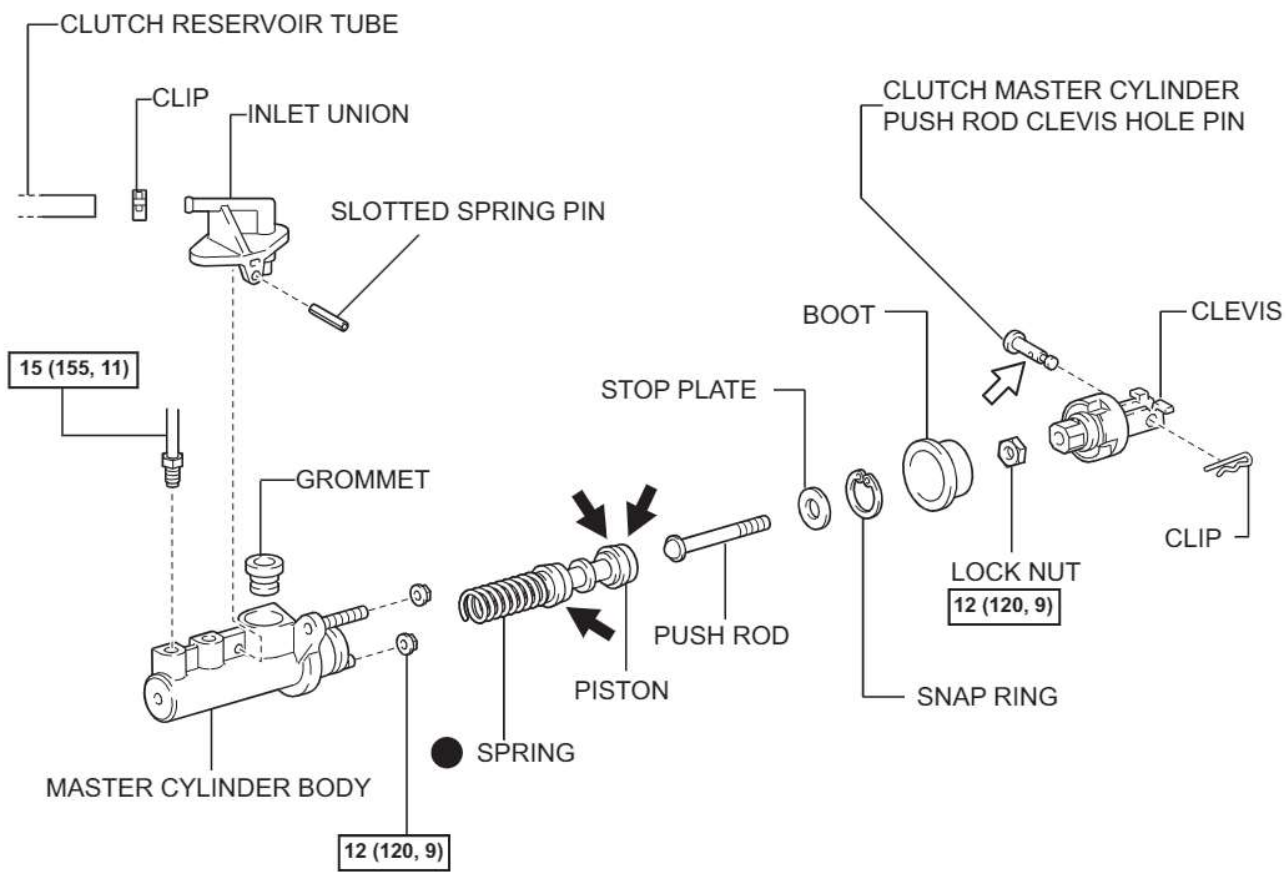
Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

10. CHECK SRS WARNING LIGHT

- (a) Check SRS warning light (see page [RS-11](#)).

CLUTCH MASTER CYLINDER

COMPONENTS



N*m (kgf*cm, ft.*lbf) : Specified torque

- Non-reusable part
- ← Lithium soap base glycol grease
- ↔ MP grease

CL

CL-12

CLUTCH – CLUTCH MASTER CYLINDER

REMOVAL**1. DRAIN BRAKE FLUID****NOTICE:**

Wash brake fluid off immediately if it adheres to any painted surface.

2. REMOVE BRAKE MASTER CYLINDER SUB-ASSEMBLY

(a) Remove the master cylinder (see page [BR-12](#)).

3. REMOVE BRAKE BOOSTER ASSEMBLY

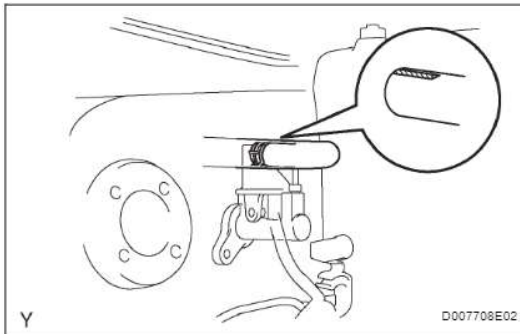
(a) Remove the booster (see page [BR-19](#)).

4. DISCONNECT CLUTCH RESERVOIR TUBE

(a) Loosen the clip and disconnect the clutch reservoir tube from the clutch master cylinder.

HINT:

Use a container to catch the fluid.

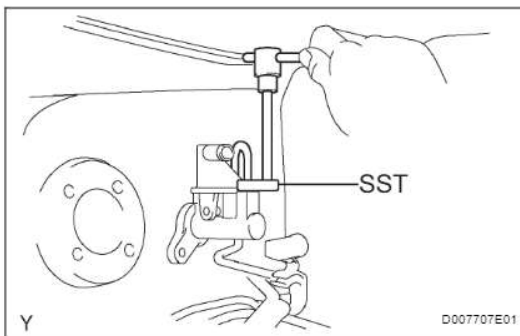
**5. DISCONNECT CLUTCH MASTER CYLINDER TO FLEXIBLE HOSE TUBE**

(a) Using SST, disconnect the flexible hose tube.

SST 09023-00101

HINT:

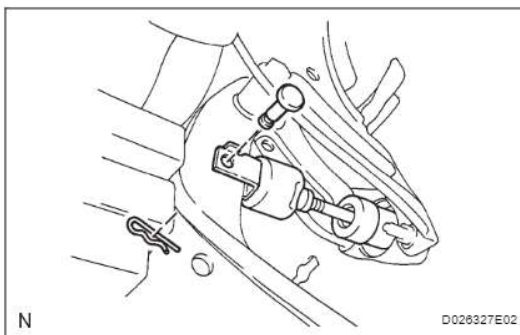
Use a container to catch the fluid.

**6. REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS HOLE PIN**

(a) Remove the clip and hole pin.

7. REMOVE CLUTCH MASTER CYLINDER ASSEMBLY

(a) Remove the 2 nuts and clutch master cylinder.

**DISASSEMBLY****1. REMOVE CLUTCH MASTER CYLINDER KIT**

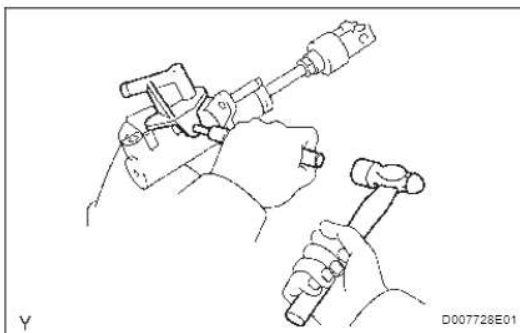
(a) Using a pin punch and hammer, tap out the slotted spring pin.

(b) Remove the inlet union and grommet.

(c) Loosen the lock nut, and remove the clevis.

(d) Remove the lock nut from the push rod.

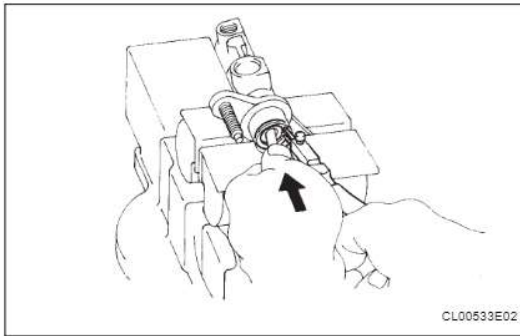
(e) Remove the boot from the cylinder body.



CL

CLUTCH – CLUTCH MASTER CYLINDER

CL-13



- (f) Using snap ring pliers, remove the snap ring while pushing on the piston rod.
- (g) Remove the push rod from the cylinder body.

NOTICE:

The piston may pop up out of the cylinder body. Therefore, slowly remove the push rod from the cylinder body.

- (h) Remove the stop plate and push rod.
- (i) Remove the piston with the spring from the cylinder.

NOTICE:

Be careful not to damage the inside of the cylinder body.

REASSEMBLY**1. INSTALL CLUTCH MASTER CYLINDER KIT**

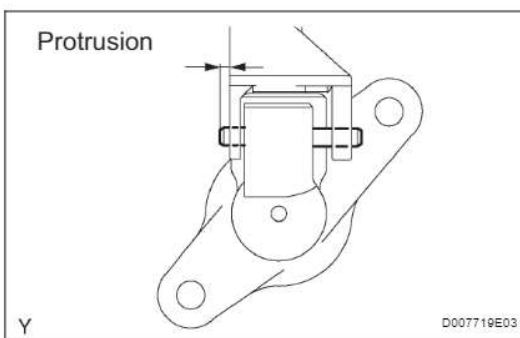
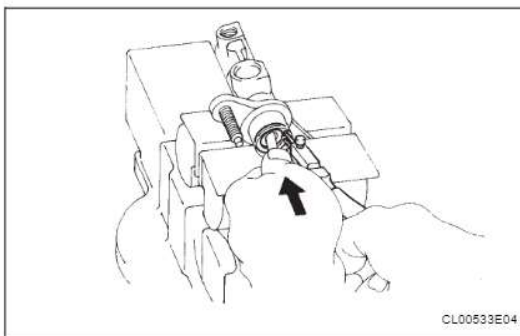
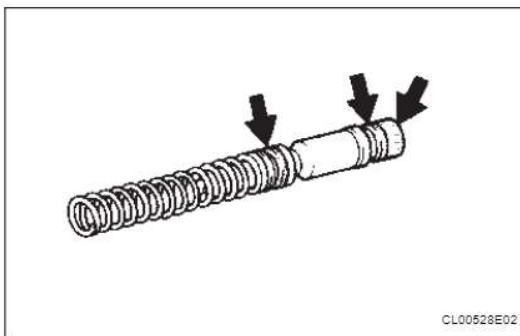
- (a) Coat the parts indicated by arrows with lithium soap base glycol grease.

- (b) Install the piston with the spring into the cylinder.

NOTICE:

Be careful not to damage the inside of the cylinder body.

- (c) Install the stop plate to the push rod.
- (d) Install the push rod to the cylinder body.
- (e) Using snap ring pliers, install the snap ring while pushing on the piston rod.
- (f) Install the boot to the cylinder body.
- (g) Install the lock nut to the push rod.
- (h) Temporarily install the clevis with the lock nut to the push rod.
- (i) Install the inlet union and a new grommet.



- (j) Using a pin punch and hammer, tap in the slotted spring pin.

Standard protrusion:

1.5 to 3.5 mm (0.059 to 0.138 in.)

CL

CL-14

CLUTCH – CLUTCH MASTER CYLINDER

INSTALLATION

1. INSTALL CLUTCH MASTER CYLINDER ASSEMBLY

- (a) Install the clutch master cylinder with the 2 nuts.

Torque: 12 N*m (120 kgf*cm, 9 ft.*lbf)

2. INSTALL CLUTCH MASTER CYLINDER PUSH ROD CLEVIS HOLE PIN

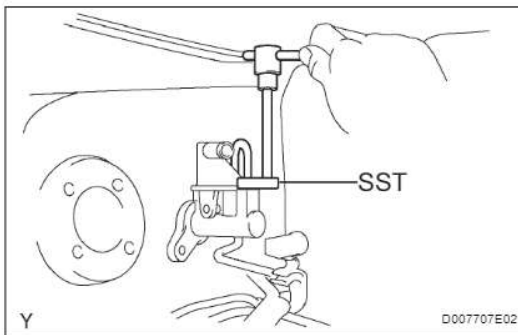
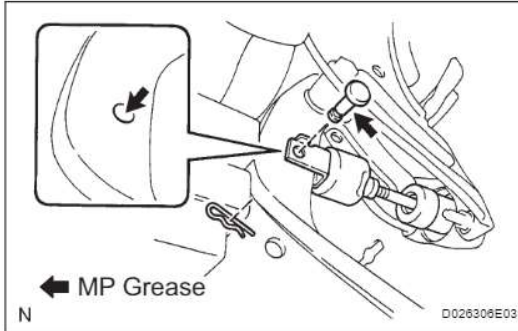
- (a) Apply MP grease to the contact surface of the hole pin and clevis bush.

- (b) Connect the clevis to the clutch pedal with the hole pin.

HINT:

Install the hole pin from the right side of the vehicle.

- (c) Install the clip to the hole pin.



3. CONNECT CLUTCH MASTER CYLINDER TO FLEXIBLE HOSE TUBE

- (a) Using SST, connect the flexible hose tube.

SST 09023-00101

Torque: 15 N*m (155 kgf*cm, 11 ft.*lbf)

4. CONNECT CLUTCH RESERVOIR TUBE

- (a) Connect the clutch reservoir tube to the clutch master cylinder with the clip.

NOTICE:

Face the red mark upward.

5. INSTALL BRAKE BOOSTER ASSEMBLY

- (a) Install the booster (see page BR-21).

6. INSTALL BRAKE MASTER CYLINDER SUB-ASSEMBLY

- (a) Install the master cylinder (see page BR-15).

7. BLEED AIR FROM BRAKE LINE

- (a) Bleed the air from brake line (see page BR-3).

8. BLEED AIR FROM CLUTCH PIPE LINE

- (a) Fill the brake reservoir with brake fluid and bleed air from the clutch system.

Torque: 8.4 N*m (85 kgf*cm, 74 in.*lbf)

9. CHECK AND ADJUST BRAKE PEDAL HEIGHT (See page BR-7)

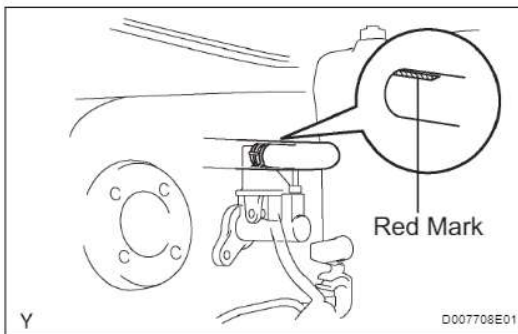
10. INSPECT AND ADJUST CLUTCH PEDAL SUB-ASSEMBLY (See page CL-5)

11. BLEED AIR FROM BRAKE LINE

12. INSPECT FOR BRAKE FLUID LEAK

HINT:

- Inspect for leak in the brake system.



CL

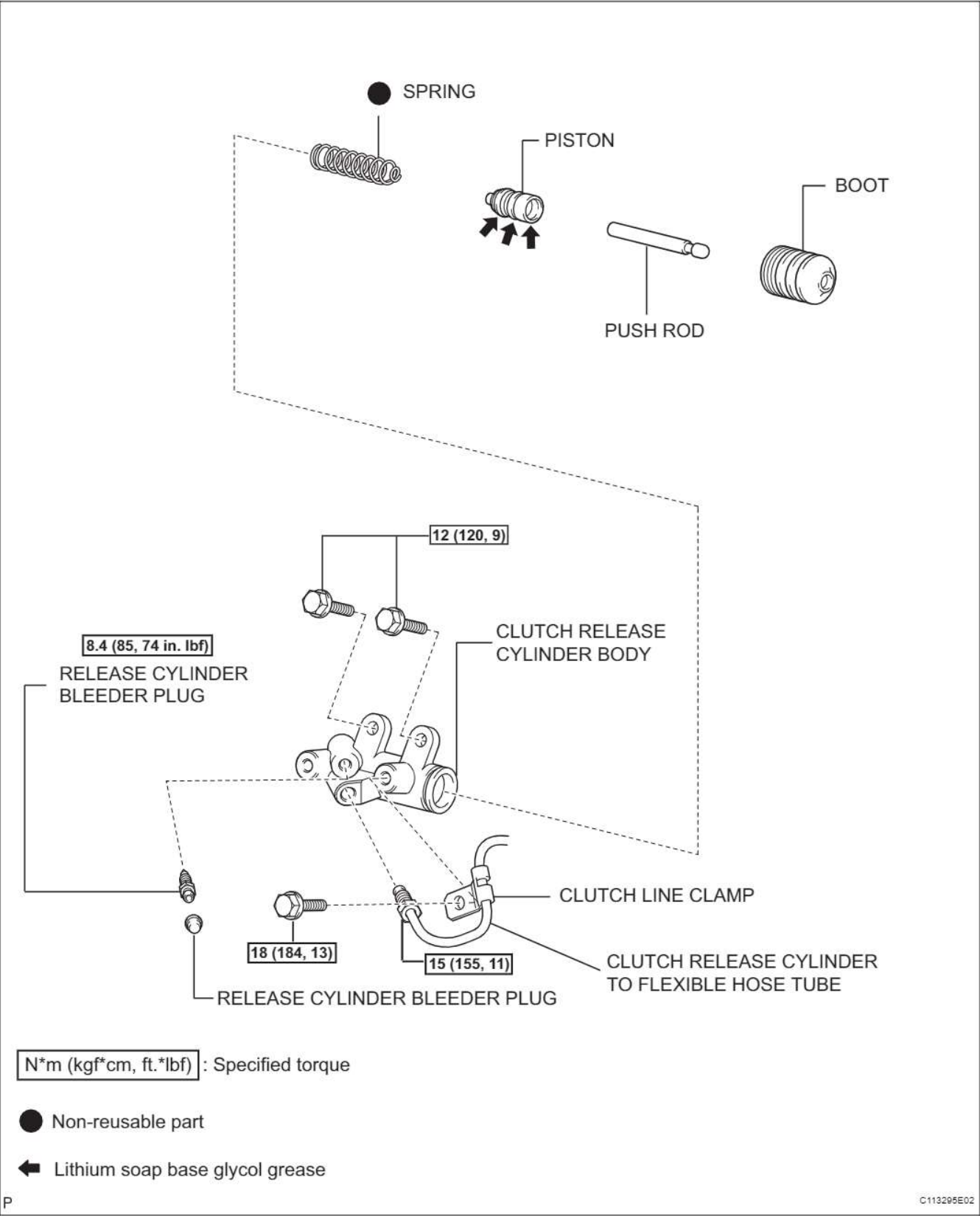
CLUTCH – CLUTCH MASTER CYLINDER**CL-15**

- Inspect for leak in the clutch system.

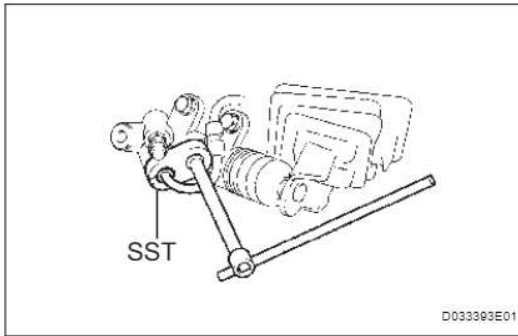
13. CHECK FLUID LEVEL IN RESERVOIR**CL**

CLUTCH RELEASE CYLINDER

COMPONENTS



CL

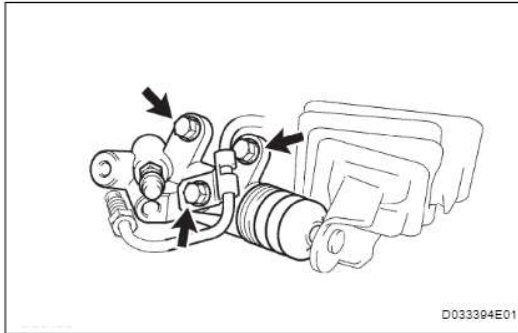
CL-16**CLUTCH – CLUTCH RELEASE CYLINDER****REMOVAL****1. DISCONNECT CLUTCH RELEASE CYLINDER TO FLEXIBLE HOSE TUBE**

- (a) Using SST, disconnect the flexible hose tube.

SST 09023-00101

NOTICE:

Use a container to catch the fluid.

**2. REMOVE CLUTCH RELEASE CYLINDER ASSEMBLY**

- (a) Remove the 3 bolts and clutch release cylinder.

DISASSEMBLY

1. REMOVE CLUTCH RELEASE CYLINDER KIT

- (a) Remove the boot from the cylinder body.
- (b) Remove the push rod from the cylinder body.
- (c) Remove the piston from the cylinder body.

NOTICE:

Be careful not to damage the inside of the cylinder body.

- (d) Remove the spring from the cylinder body.
- (e) Remove the bleeder plug cap from the bleeder plug.

2. REMOVE RELEASE CYLINDER BLEEDER PLUG

CL-18

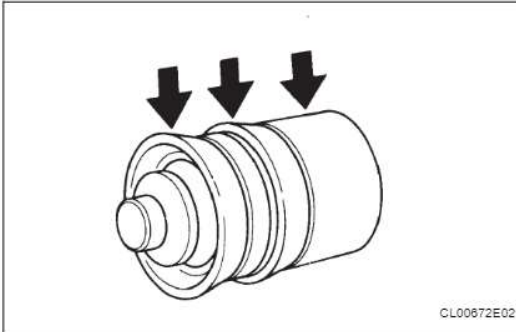
CLUTCH – CLUTCH RELEASE CYLINDER

REASSEMBLY

1. **INSTALL RELEASE CYLINDER BLEEDER PLUG**
Torque: 8.4 N*m (85 kgf*cm, 74 in.*lbf)
2. **INSTALL CLUTCH RELEASE CYLINDER KIT**
 - (a) Install the bleeder plug cap to the bleeder plug.
 - (b) Install a new spring to the cylinder body.
 - (c) Coat the piston with lithium soap base glycol grease, as shown in the illustration.
 - (d) Install the piston to the cylinder body.

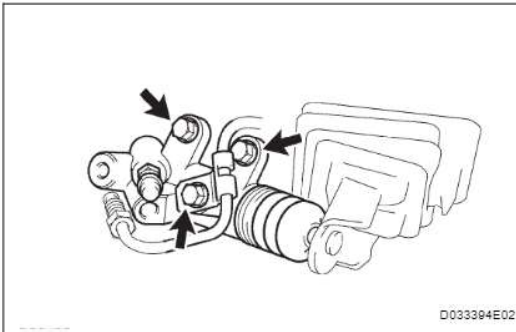
NOTICE:
Be careful not to damage the inside of the cylinder body.

 - (e) Install the push rod to the cylinder body.
 - (f) Install the boot to the cylinder body.



INSTALLATION

1. **INSTALL CLUTCH RELEASE CYLINDER ASSEMBLY**
 - (a) Install the clutch release cylinder with the 2 bolts.
Torque: 12 N*m (120 kgf*cm, 9 ft.*lbf)
 - (b) Install the flexible hose tube with the bolt.
Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)



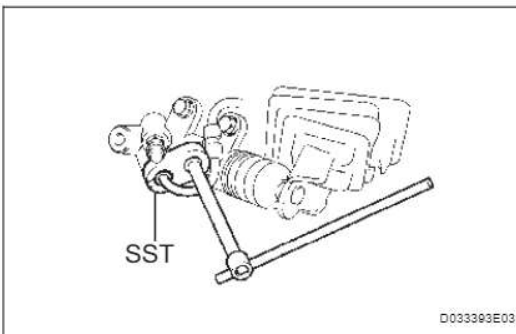
2. **CONNECT CLUTCH RELEASE CYLINDER TO FLEXIBLE HOSE TUBE**

- (a) Using SST, connect the flexible hose tube.
SST 09023-00101
Torque: 15 N*m (155 kgf*cm, 11 ft.*lbf)

3. **BLEED AIR FROM CLUTCH PIPE LINE**

- (a) Fill the brake reservoir with brake fluid and bleed air from the clutch system.
Torque: 8.4 N*m (85 kgf*cm, 74 in.*lbf)

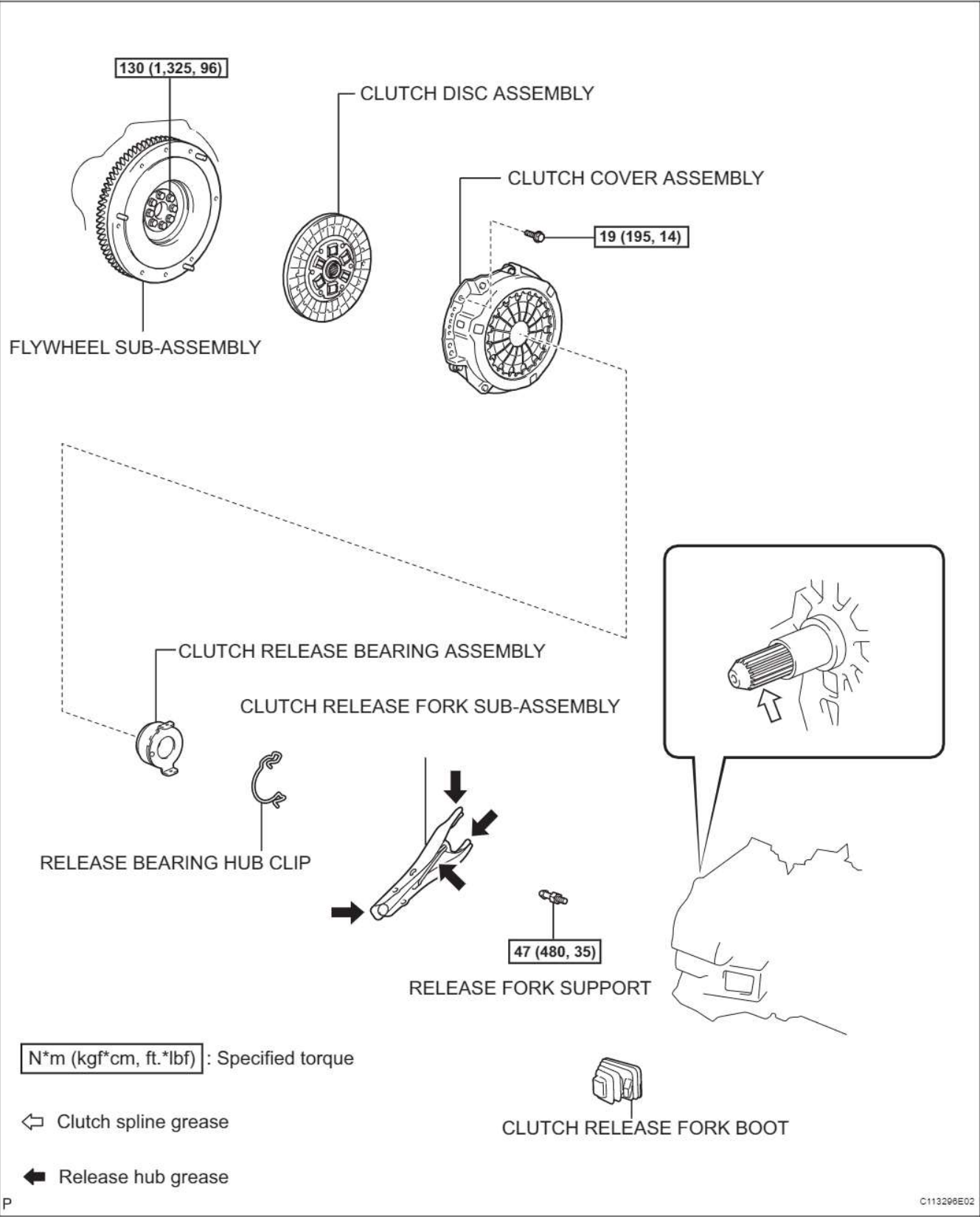
4. **INSPECT FOR CLUTCH FLUID LEAK**



CL

CLUTCH UNIT

COMPONENTS

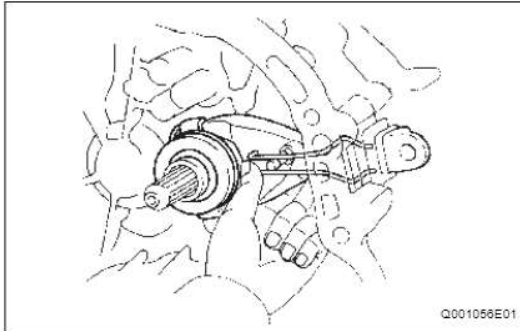


CLUTCH – CLUTCH UNIT

CL-19

REMOVAL**1. REMOVE MANUAL TRANSAXLE ASSEMBLY**

- (a) Remove the transaxle (see page [MX-18](#)).

**2. REMOVE CLUTCH RELEASE FORK SUB-ASSEMBLY**

- (a) Remove the clutch release fork with the clutch release bearing from the transaxle.

3. REMOVE CLUTCH RELEASE BEARING ASSEMBLY

- (a) Remove the clutch release bearing from the clutch release fork.

4. REMOVE RELEASE BEARING HUB CLIP**5. REMOVE CLUTCH RELEASE FORK BOOT****6. REMOVE RELEASE FORK SUPPORT**

- (a) Remove the release fork support from the transaxle.

7. REMOVE CLUTCH COVER ASSEMBLY

- (a) Put matchmark on the clutch cover and flywheel.
 (b) Loosen each set bolt one turn at a time until spring tension is released.
 (c) Remove the set bolts, and pull off the clutch cover.

NOTICE:

Do not drop the clutch disc.

8. REMOVE CLUTCH DISC ASSEMBLY**NOTICE:**

Keep the lining part of the clutch disc, the pressure plate and surface of the flywheel away from oil and foreign matter.

9. INSPECT CLUTCH DISC ASSEMBLY

- (a) Using a vernier caliper, measure the rivet head depth.

Minimum rivet depth:

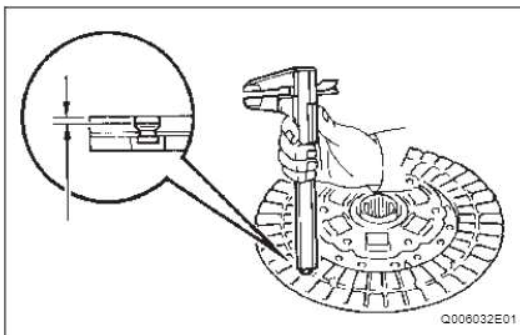
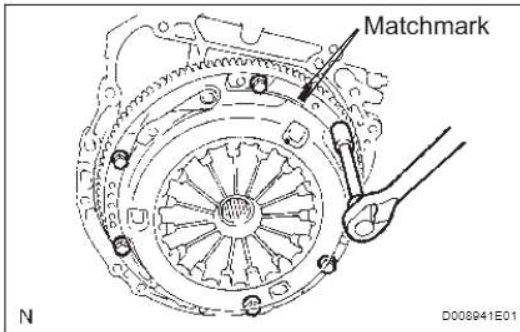
0.3 mm (0.012 in.)

If the depth is less than the minimum, replace the clutch disc assembly.

- (b) Install the clutch disc to the transaxle.

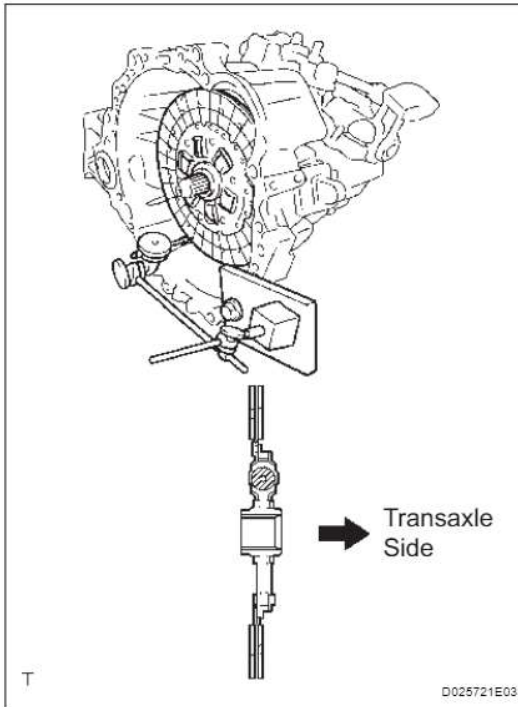
NOTICE:

Take care not to insert the clutch disc assembly in the wrong direction.

**CL**

CL-20

CLUTCH – CLUTCH UNIT

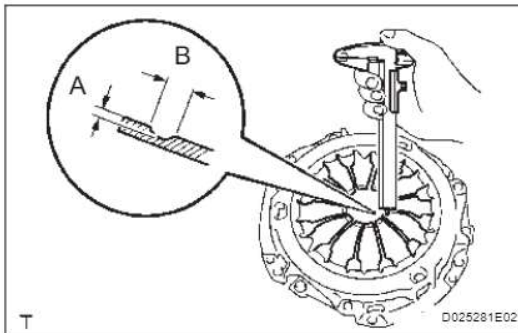


- (c) Using a dial indicator, measure the clutch disc runout.

Maximum runout:

0.8 mm (0.031 in.)

If the runout is greater than the maximum, replace the clutch disc assembly.



10. INSPECT CLUTCH COVER ASSEMBLY

- (a) Using a vernier caliper, measure the diaphragm spring for the depth and width of wear.

Maximum wear:

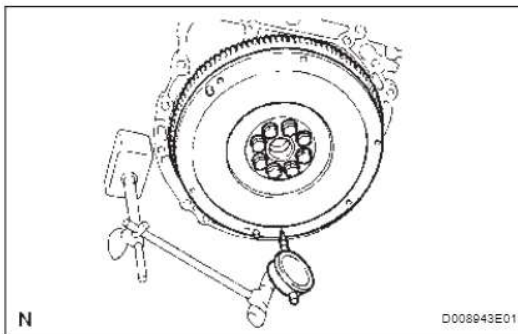
A (Depth):

0.5 mm (0.020 in.)

B (Width):

6.0 mm (0.236 in.)

If the wear is greater than the maximum, replace the clutch cover assembly.



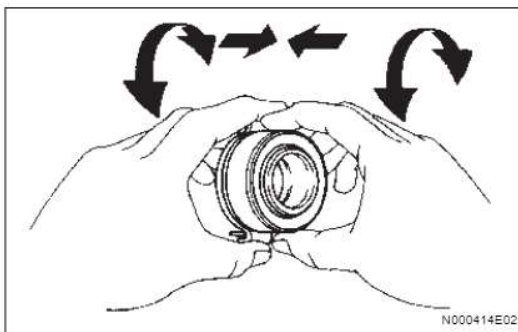
11. INSPECT FLYWHEEL SUB-ASSEMBLY

- (a) Using a dial indicator, measure the flywheel runout.

Maximum runout:

0.1 mm (0.004 in.)

If the runout is greater than the maximum, replace the flywheel sub-assembly.



12. INSPECT CLUTCH RELEASE BEARING ASSEMBLY

- (a) Check that the clutch release bearing assembly moves smoothly without abnormal resistance by turning the sliding parts of the clutch release bearing (contact surfaces with the clutch cover) while applying force in the axial direction.

- (b) Inspect the clutch release bearing for damage or wear.

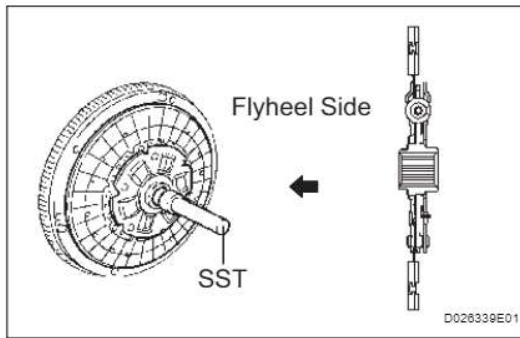
HINT:

If necessary, replace the release bearing assembly.

CL

CLUTCH – CLUTCH UNIT

CL-21



INSTALLATION

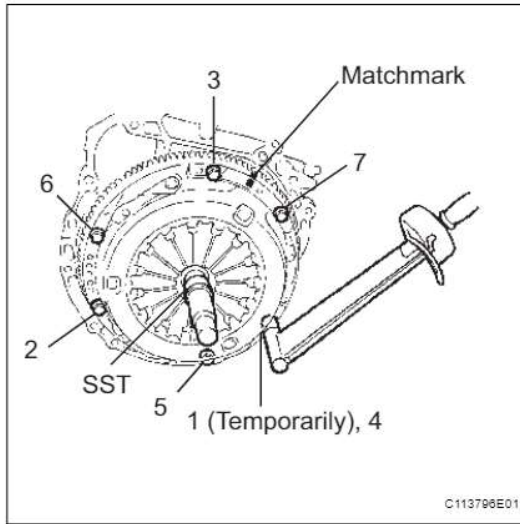
1. INSTALL CLUTCH DISC ASSEMBLY

- (a) Insert SST in the clutch, and then insert them in the flywheel.

SST 09301-00220

NOTICE:

Take care not to insert the clutch disc in the wrong direction.



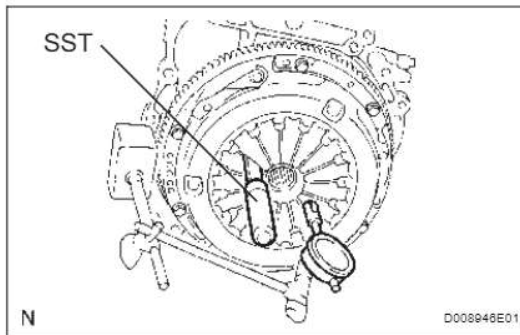
2. INSTALL CLUTCH COVER ASSEMBLY

- (a) Align the matchmarks on the clutch cover and flywheel.
- (b) Install and tighten the 6 bolts as described below.
- (1) Determine the first bolt to be tightened by choosing the bolt closest to the knock pin.
 - (2) Uniformly tighten the 6 bolts relative to the position of the first bolt to be tightened. Use the illustration as a reference.

Torque: 19 N*m (195 kgf*cm, 14 ft.*lbf)

HINT:

- Evenly tighten the bolts by following the order shown in the illustration.
- Tighten the bolts after checking that the disc is in the center by lightly moving the SST up and down, left and right.



3. INSPECT AND ADJUST CLUTCH COVER ASSEMBLY

- (a) Using a dial indicator with a roller instrument, measure the diaphragm spring tip alignment.

Maximum non-alignment:

0.5 mm (0.020 in.)

If the alignment is greater than the maximum, adjust the diaphragm spring tip alignment using SST.

SST 09333-00013

4. INSTALL RELEASE FORK SUPPORT

- (a) Install the release fork support to the transaxle.

Torque: 47 N*m (480 kgf*cm, 35 ft.*lbf)

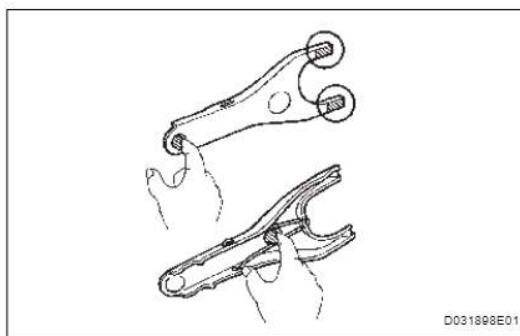
5. INSTALL CLUTCH RELEASE FORK SUB-ASSEMBLY

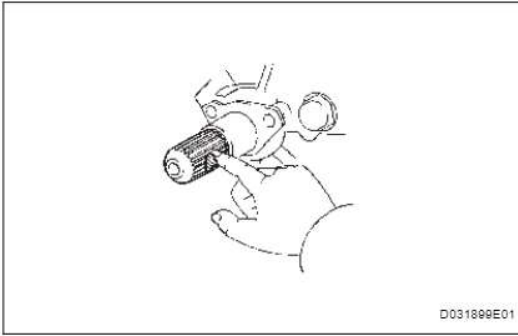
- (a) Apply release hub grease to the contact surfaces of, the release fork and release bearing assembly, release fork and push rod, and release fork and support.

Sealant:

Toyota Genuine Release Hub Grease, or equivalent

- (b) Install the release fork to the release bearing.
- (c) Install the release bearing hub clip.



CL-22**CLUTCH – CLUTCH UNIT**

- 6. INSTALL CLUTCH RELEASE BEARING ASSEMBLY**
(a) Apply clutch spline grease to the input shaft spline as shown in the illustration.

Sealant:

Toyota Genuine Clutch Spline Grease, or equivalent

- (b) Install the release fork with the release bearing assembly to the manual transaxle.

NOTICE:

After installation, move the fork back and forth to check that the release bearing slides smoothly.

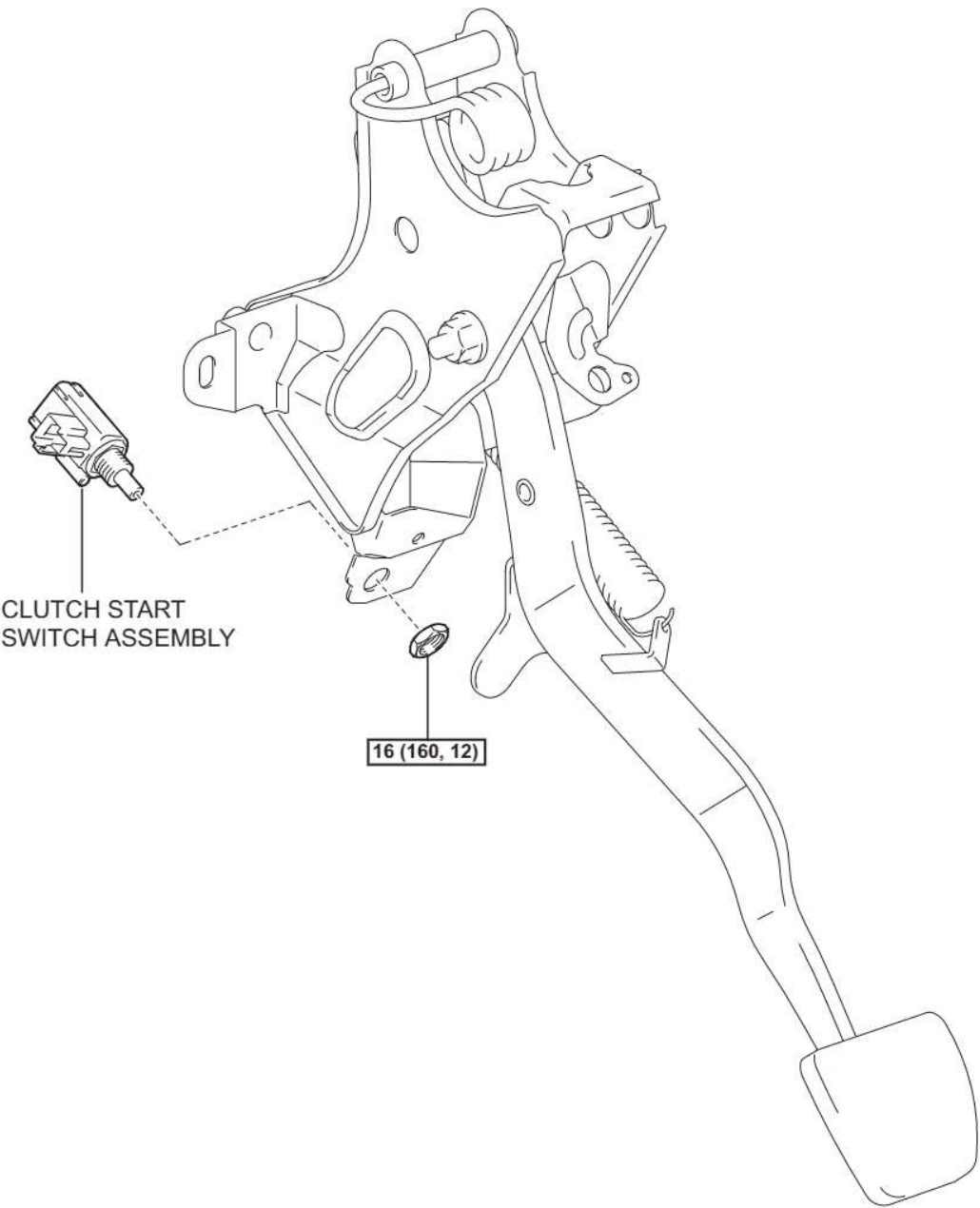
- 7. INSTALL CLUTCH RELEASE FORK BOOT**

- 8. INSTALL MANUAL TRANSAXLE ASSEMBLY**

- (a) Install the transaxle (see page [MX-21](#)).

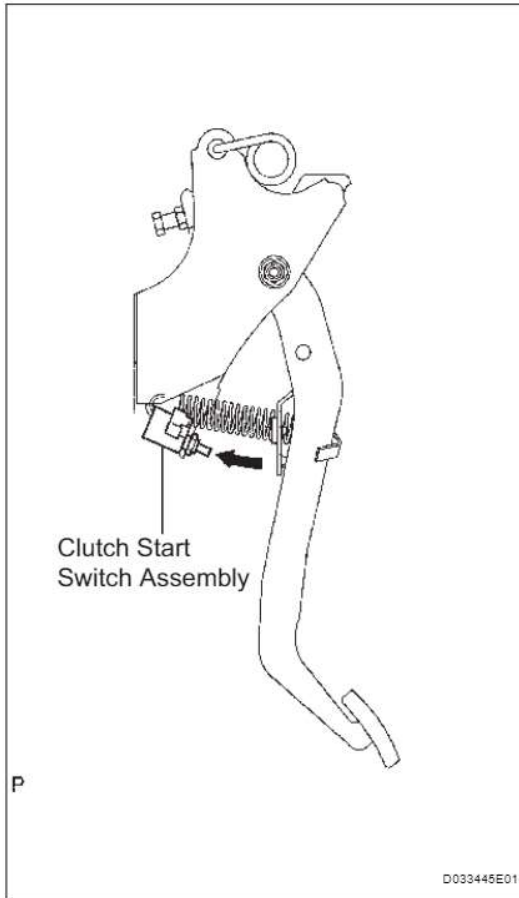
CLUTCH START SWITCH

COMPONENTS



N*m (kgf*cm, ft.*lbf) : Specified torque

CL

CL-24**CLUTCH – CLUTCH START SWITCH****ON-VEHICLE INSPECTION****1. CHECK CLUTCH START SYSTEM**

- (a) Check that the engine does not start when the clutch pedal is released.
 - (b) Check that the engine starts when the clutch pedal is fully depressed.
- If necessary, inspect and replace the clutch start switch assembly.

REMOVAL

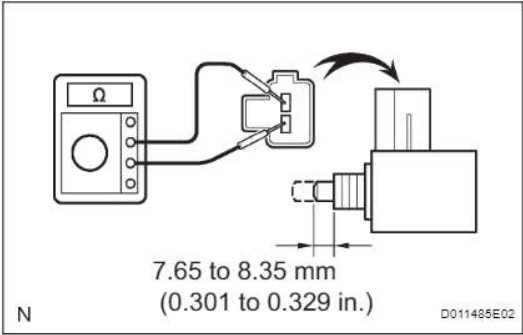
- 1. REMOVE CLUTCH START SWITCH ASSEMBLY
 - (a) Disconnect the clutch start switch connector.
 - (b) Remove the nut and clutch start switch from the clutch pedal support.

INSPECTION

- 1. INSPECT CLUTCH START SWITCH ASSEMBLY
 - (a) Check the continuity between the terminals when the switch is ON and OFF.

OK

Switch Position	Specified Condition
ON (pushed)	10 Ω or less
OFF (not pushed)	10 kΩ or more



CL-26

CLUTCH – CLUTCH START SWITCH

INSTALLATION**1. INSTALL CLUTCH START SWITCH ASSEMBLY**

- (a) Install the clutch start switch with the nut.

Torque: 16 N*m (160 kgf*cm, 12 ft.*lbf)

- (b) Connect the clutch start switch connector.

CL