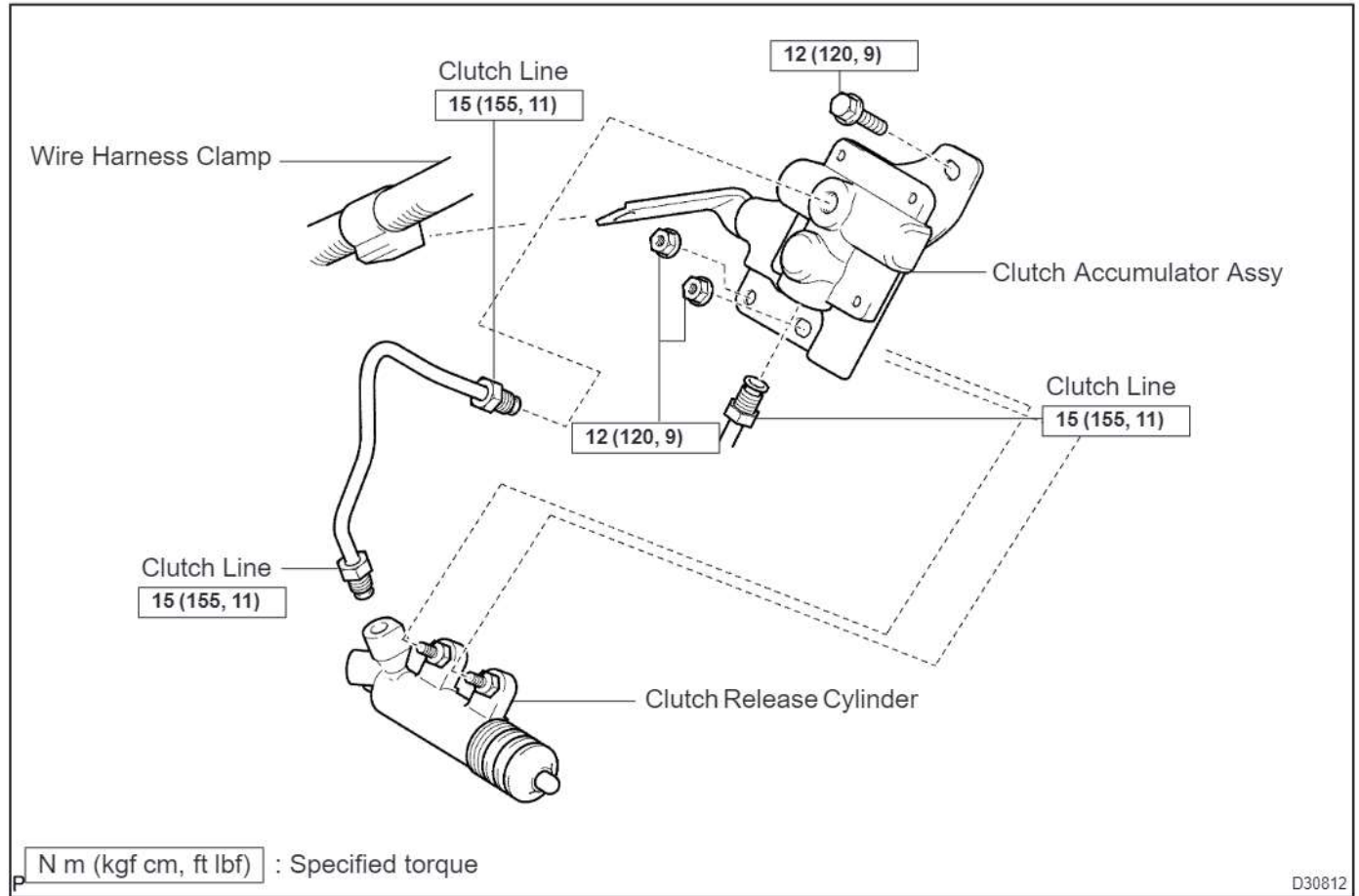


CLUTCH ACCUMULATOR ASSY (1CD-FTV) COMPONENTS

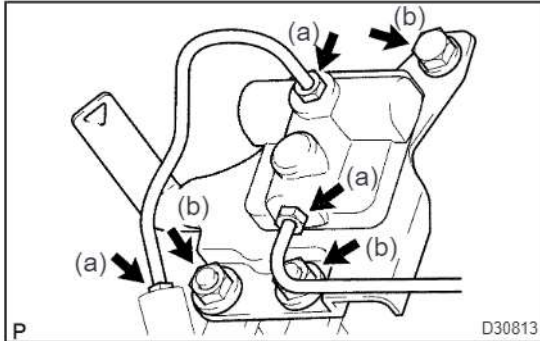
42022-03



D30812

REPLACEMENT

1. REMOVE BATTERY
2. REMOVE AIR TUBE NO.1 (See page 14-286)



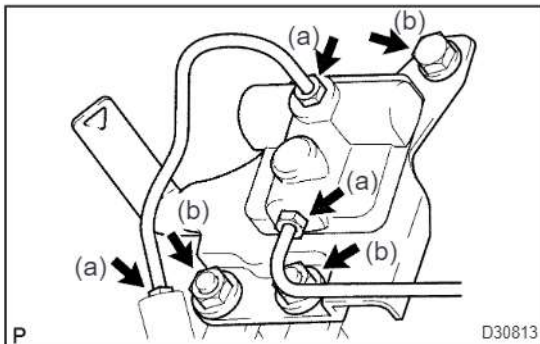
3. REMOVE CLUTCH ACCUMULATOR ASSY

- (a) Using SST(s), disconnect the flexible hose tube.
SST 09023-00100

HINT:

Use a container to catch the fluid.

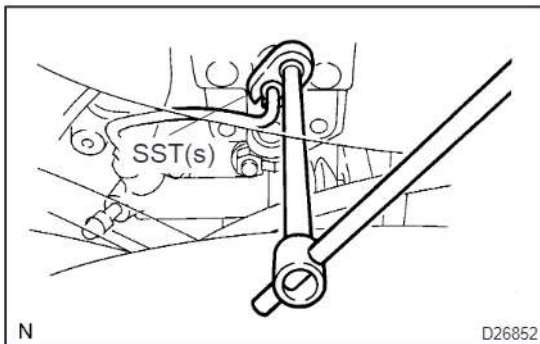
- (b) Remove a bolt, 2 nuts and clutch accumulator assy.



4. INSTALL CLUTCH ACCUMULATOR ASSY

- (a) Using SST(s), connect the 2 flexible hose tubes to the clutch accumulator assy.
SST 09023-00100
- (b) Install the clutch accumulator assy with the 2 nuts and a bolt.

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



- (c) Using SST(s), tighten the flexible hose tube.
SST 09023-00100

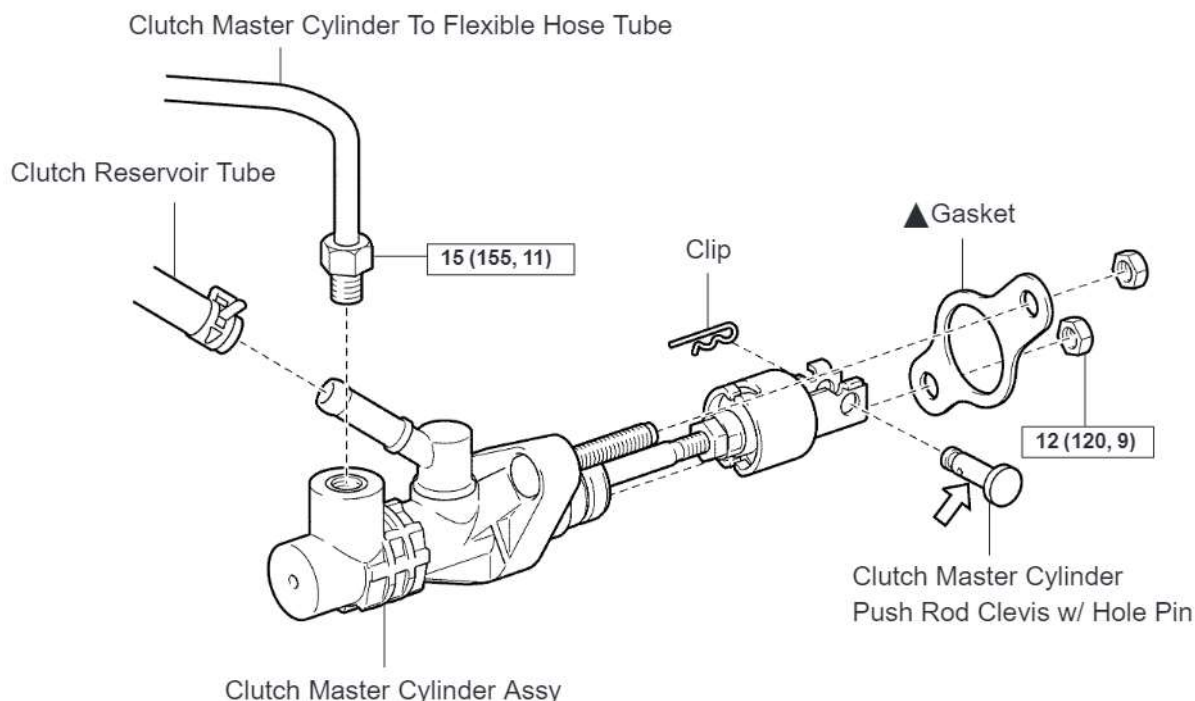
Torque: 15 N m (155 kgf cm, 11 ft lbf)

5. INSTALL AIR TUBE NO.1 (See page 14-286)
6. INSTALL BATTERY
7. BLEED CLUTCH PIPE LINE
 - (a) Fill the brake reservoir tank with the brake fluid and bleed clutch system.
Torque: 8.3 N m (85 kgf cm, 73 in. lbf)
8. CHECK CLUTCH FLUID LEAKAGE

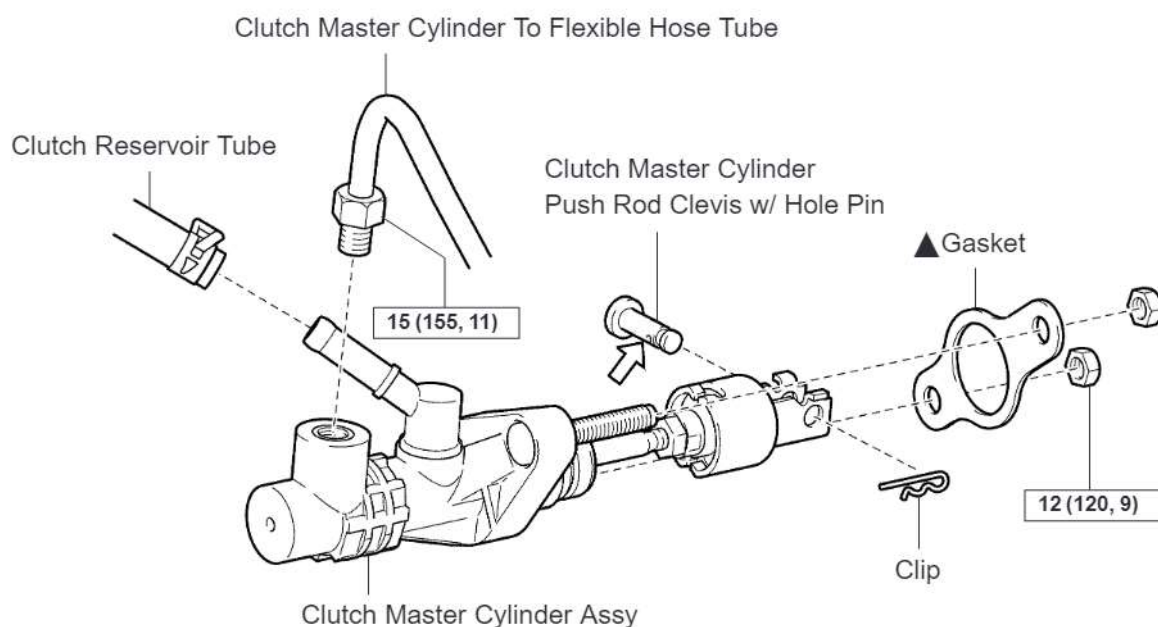
CLUTCH MASTER CYLINDER ASSY (MTM) COMPONENTS

4202V-03

LHD Steering Position Type:



RHD Steering Position Type:



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

▲ Non-reusable part

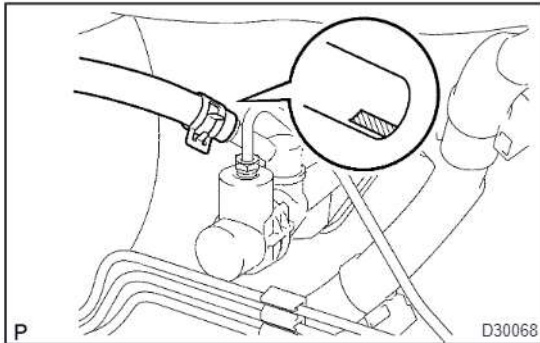
↶ MP grease

P

D30477

REPLACEMENT

1. DRAIN CLUTCH FLUID
2. REMOVE BRAKE MASTER CYLINDER SUB-ASSY (LHD STEERING POSITION TYPE)
(See page 32-13)
3. REMOVE BRAKE BOOSTER ASSY (LHD STEERING POSITION TYPE) (See page 32-19)

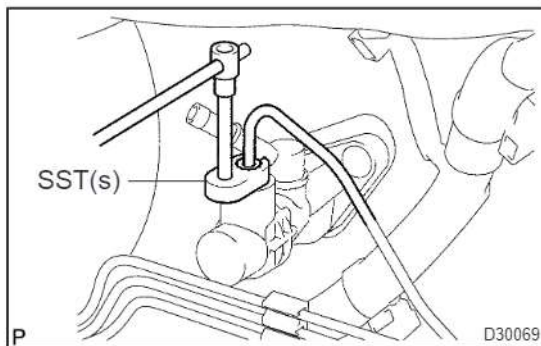


4. DISCONNECT CLUTCH RESERVOIR TUBE

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

HINT:

Use a container to catch the fluid.

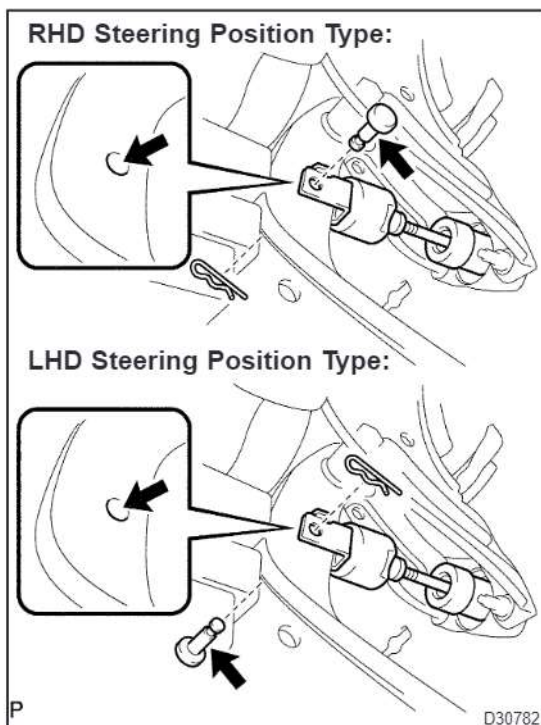


5. DISCONNECT CLUTCH MASTER CYLINDER TO FLEXIBLE HOSE TUBE

- (a) Using SST(s), disconnect the flexible hose tube.
SST 09023-00100

HINT:

Use a container to catch the fluid.



6. REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS W/HOLE PIN

- (a) Remove the clip and hole pin.

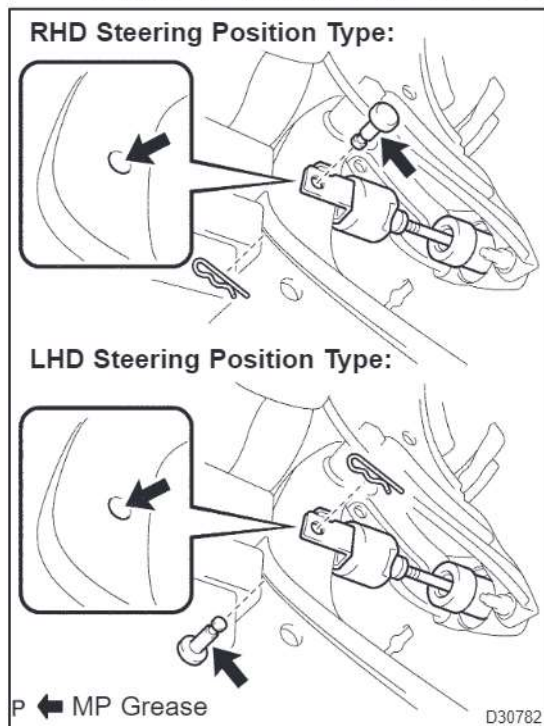
7. REMOVE CLUTCH MASTER CYLINDER ASSY

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

8. INSTALL CLUTCH MASTER CYLINDER ASSY

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

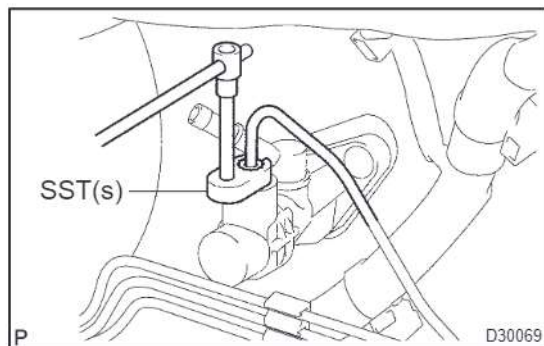
Torque: 12 N m (120 kgf cm, 9 ft lbf)

**9. INSTALL CLUTCH MASTER CYLINDER PUSH ROD CLEVIS W/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 assy with the hole pin.

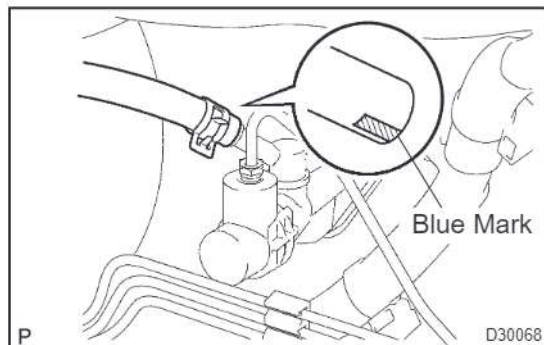
HINT:

- ▲ RHD steering position type:
Install the hole pin from the right side of the vehicle.
 - ▲ LHD steering position type:
Install the hole pin from the left side of the vehicle.
- (c) Install the clip to the hole pin.

**10. CONNECT CLUTCH MASTER CYLINDER TO FLEXIBLE HOSE TUBE**

- (a) Using SST(s), connect the flexible hose tube.
SST 09023-00100

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

**11. CONNECT CLUTCH RESERVOIR TUBE**

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

NOTICE:

Connect the clutch reservoir tube so as not be twisted.

12. INSTALL BRAKE BOOSTER ASSY (LHD STEERING POSITION TYPE) (See page 32-19)**13. INSTALL BRAKE MASTER CYLINDER SUB-ASSY (LHD STEERING POSITION TYPE) (See page 32-13)****14. BLEED BRAKE LINE (LHD STEERING POSITION TYPE) (See page 32-4)**

15. BLEED CLUTCH PIPE LINE

- (a) Fill the brake reservoir tank with the clutch fluid and bleed clutch system.
Torque: 8.4 N m (85 kgf cm, 73 in. lbf)

16. CHECK AND ADJUST BRAKE PEDAL HEIGHT (LHD STEERING POSITION TYPE)
([See page 32-6](#))**17. INSPECT AND ADJUST CLUTCH PEDAL SUB-ASSY ([See page 42-2](#))****18. CHECK BRAKE FLUID LEAKAGE (LHD STEERING POSITION TYPE)****19. CHECK CLUTCH FLUID LEAKAGE****20. CHECK FLUID LEVEL IN RESERVOIR**

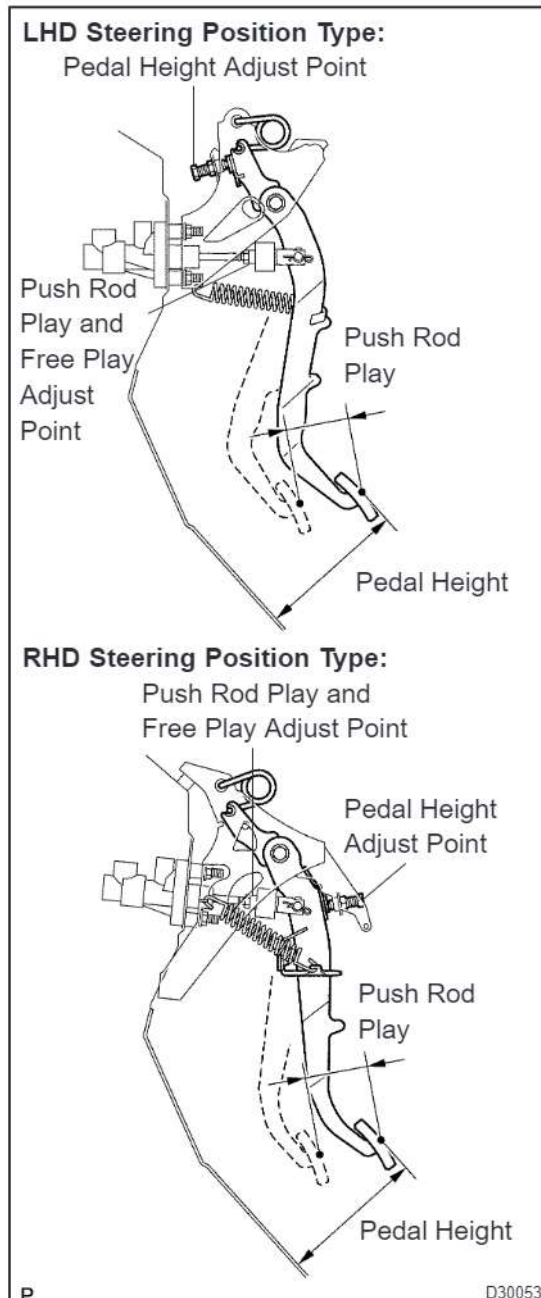
CLUTCH PEDAL SUB-ASSY (MTM)

ADJUSTMENT

4200D-04

1. INSPECT AND ADJUST CLUTCH PEDAL SUB-ASSY

- (a) Turn over the floor carpet.



- (b) Check that the pedal height is correct.

Pedal height from asphalt sheet:

LHD Steering Position Type:

1CD-FTV Engine Type

154.0 to 164.0 mm (6.063 to 6.457 in.)

Others:

139.6 to 149.6 mm (5.496 to 5.890 in.)

RHD Steering Position Type:

1CD-FTV Engine Type

158.4 to 168.4 mm (6.236 to 6.630 in.)

Others:

148.4 to 158.4 mm (5.843 to 6.236 in.)

- (c) Adjust the pedal height.

- (1) Loosen the lock nut and turn the stopper bolt until the height is correct. Tighten the lock nut.

Torque: 25 N m (250 kgf cm, 18 ft lbf)

- (d) Check that the pedal free play and push rod play are correct.

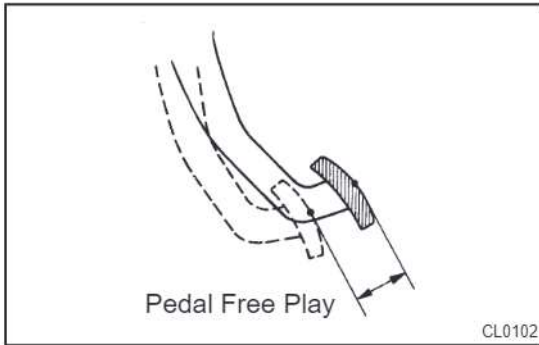
- (1) Depress the pedal until clutch resistance is felt.

Pedal free play: 5.0 to 15.0 mm (0.197 to 0.591 in.)

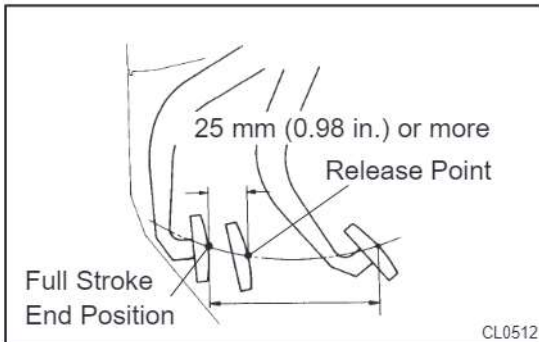
- (2) Gently depress the pedal until the resistance begins to increase a little.

Push rod play at pedal top:

1.0 to 5.0 mm (0.039 to 0.197 in.)



- (e) Adjust the pedal free play and push rod play.
- (1) Loosen the lock nut and turn the push rod until the free play and push rod play are correct.
 - (2) Tighten the lock nut.
 - (3) After adjusting the pedal free play, check the pedal height.
 - (4) Connect the air duct and install the lower finish panel.



- (f) Check the clutch release point.
- (1) Pull the parking brake lever and install wheel stopper.
 - (2) Start the engine and idle.
 - (3) Without depressing the clutch pedal, slowly adjust the shift lever to the reverse position 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 (0.98 in.) or more

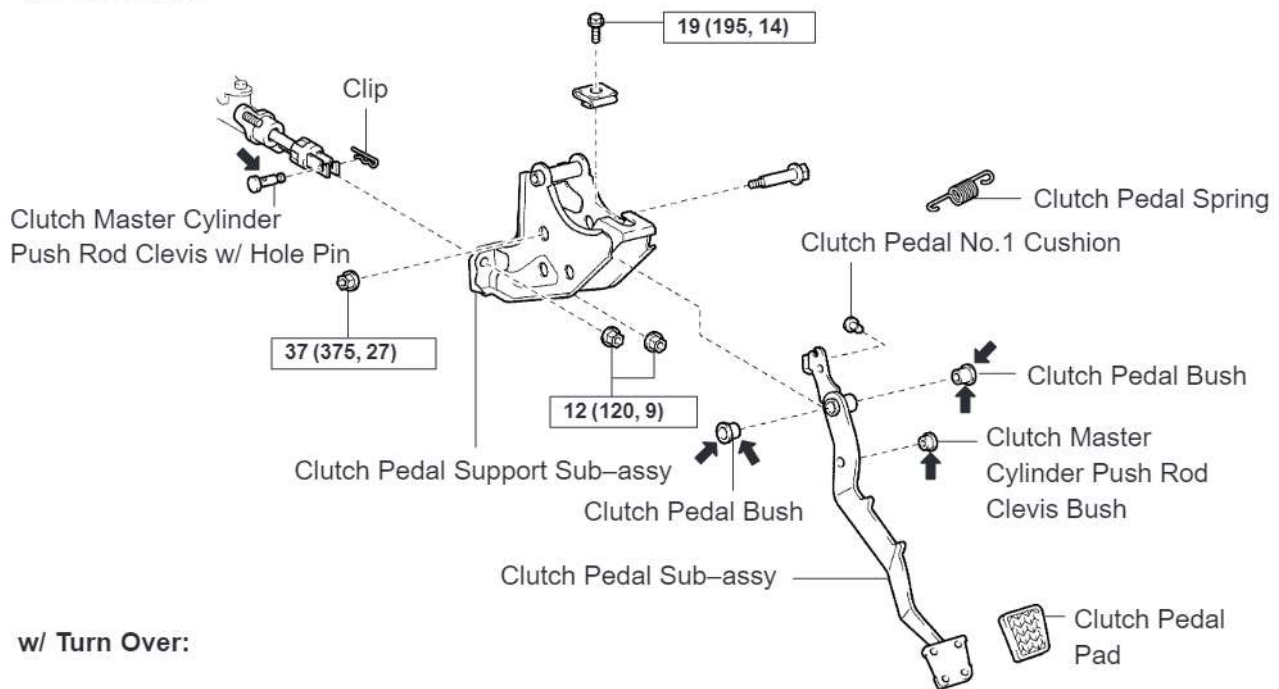
(From pedal stroke end position to release point)

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

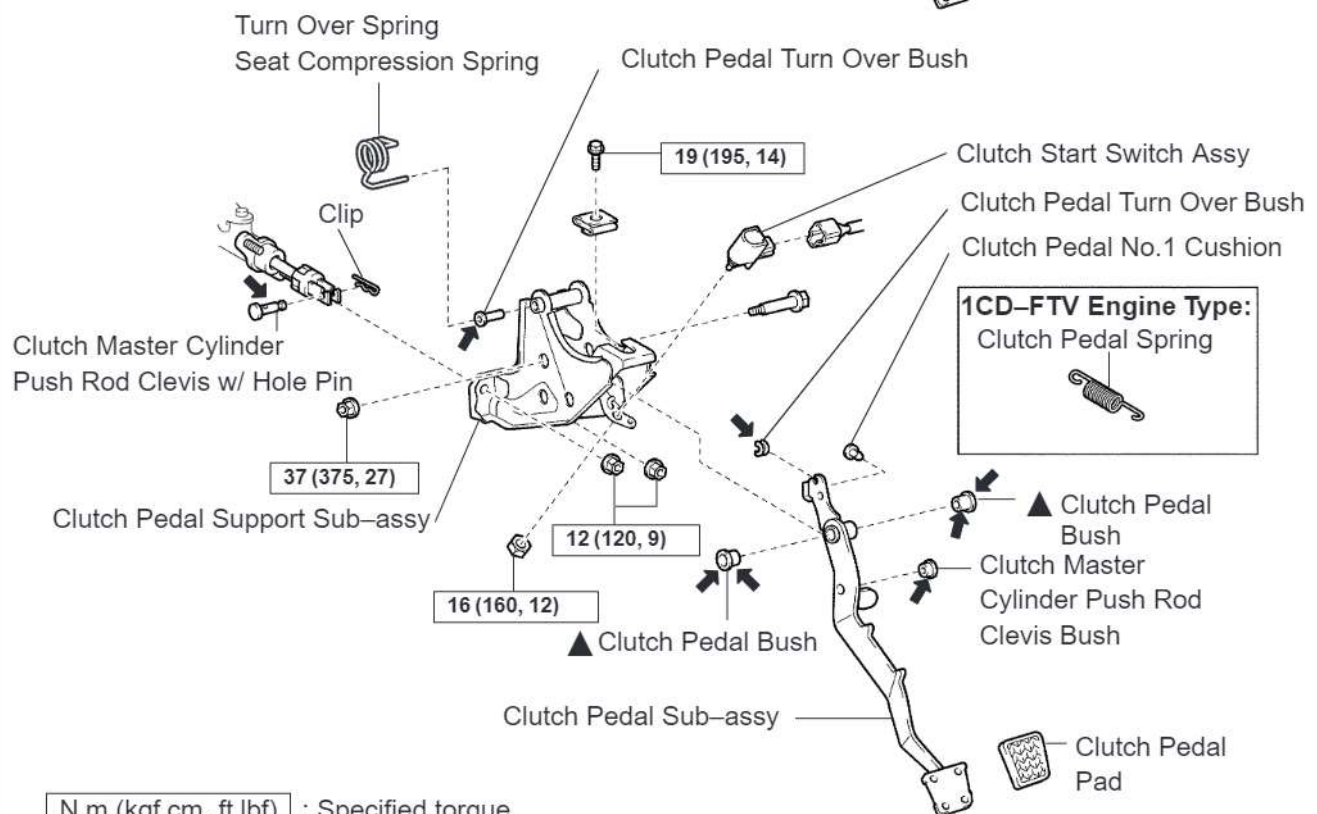
- ▲ Check pedal height.
- ▲ Check push rod play and pedal free play.
- ▲ Bleed the clutch line.
- ▲ Check the clutch cover assy and disc assy.

COMPONENTS

LHD Steering Position Type: w/o Turn Over:



w/ Turn Over:

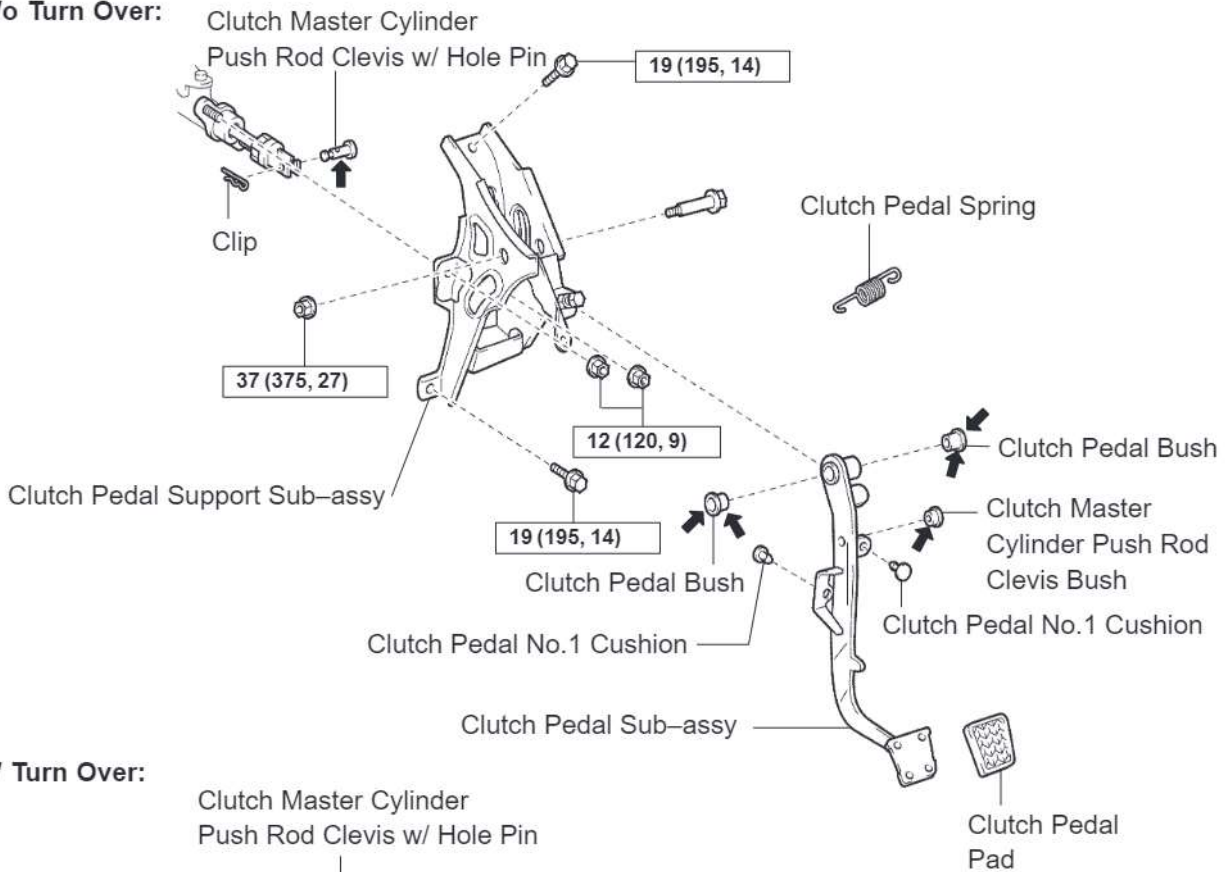
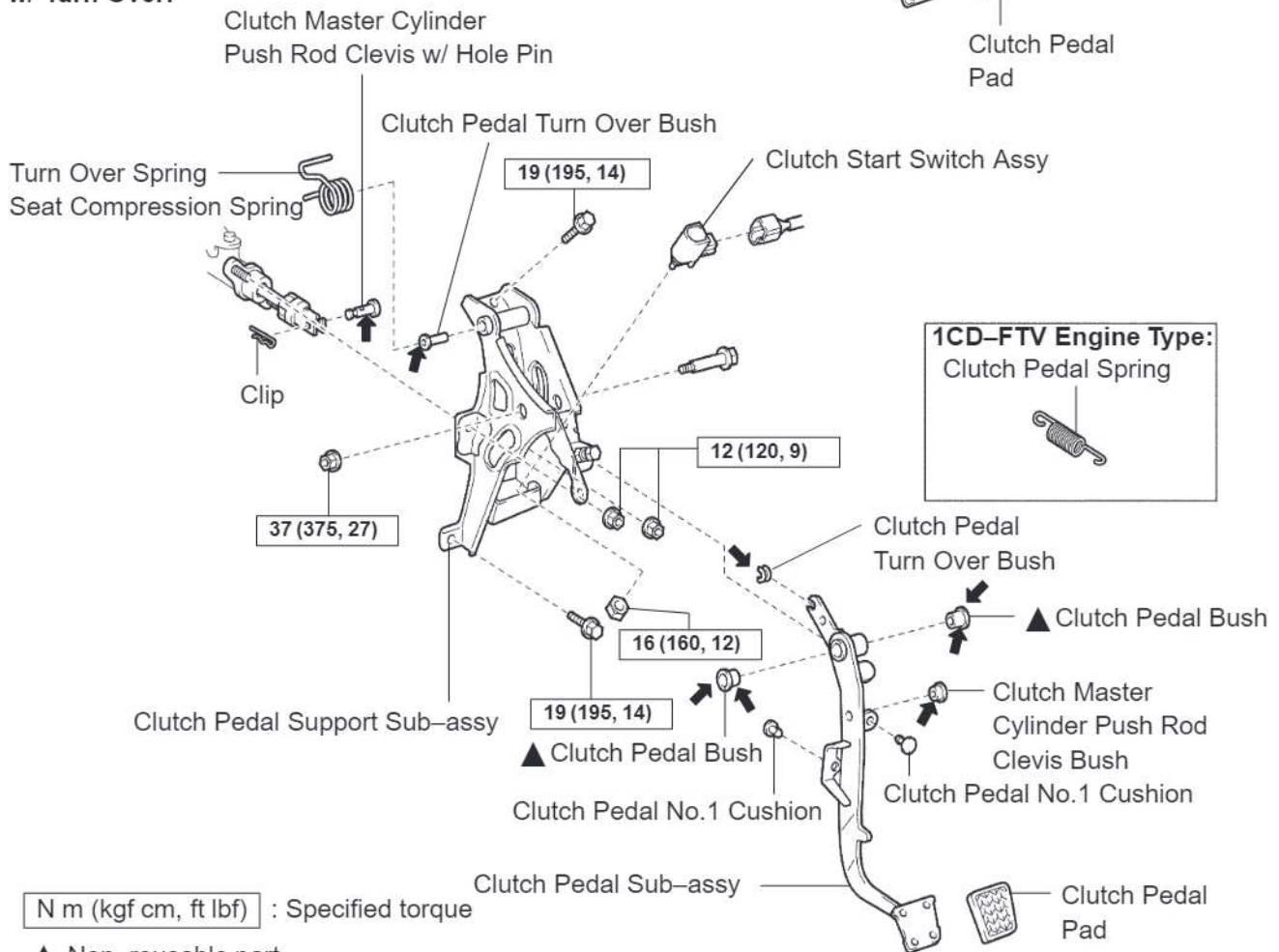


N m (kgf cm, ft lbf) : Specified torque

▲ Non-reusable part

← MP Grease

D30054

RHD Power Steering Type:**w/o Turn Over:****w/ Turn Over:****1CD-FTV Engine Type:**
Clutch Pedal Spring

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

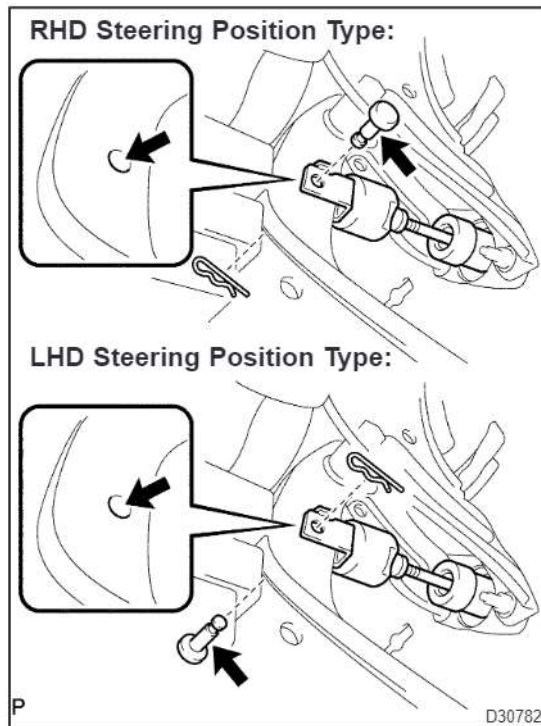
▲ Non-reusable part

P ← MP Grease

D30304

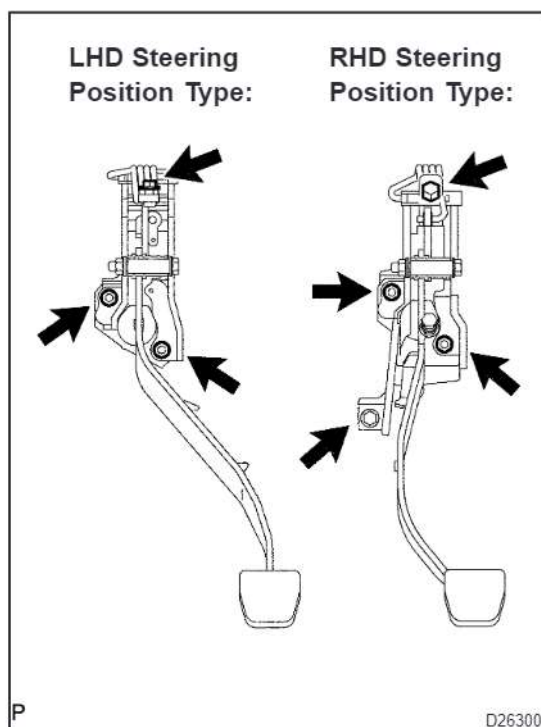
REPLACEMENT

1. REMOVE INSTRUMENT PANEL SUB-ASSY LOWER (LHD STEERING POSITION TYPE)
(See page 71-11)
2. REMOVE COMBINATION METER ASSY (RHD STEERING POSITION TYPE) (See page 71-21)
3. REMOVE CLUTCH PEDAL SPRING



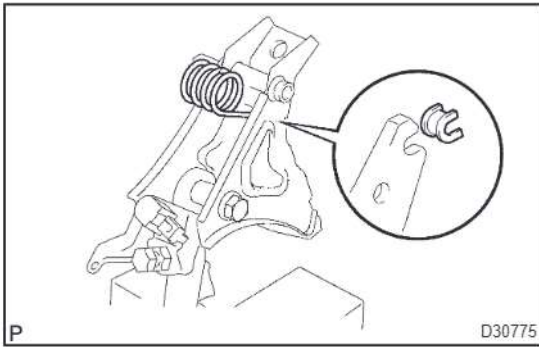
4. REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS W/HOLE PIN

- (a) Remove the clip and hole pin.



5. REMOVE CLUTCH PEDAL SUPPORT SUB-ASSY

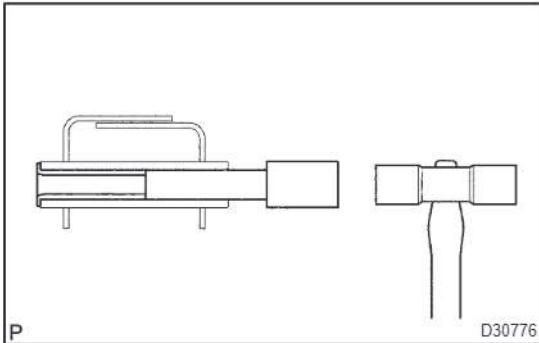
- (a) LHD steering position type:
Remove the 2 nuts, bolt and clutch pedal support assy.
- (b) RHD steering position type:
Remove the 2 bolts, 2 nuts and clutch pedal support assy.



6. REMOVE TURN OVER SPRING SEAT COMPRESSION SPRING (W/ TURN OVER)

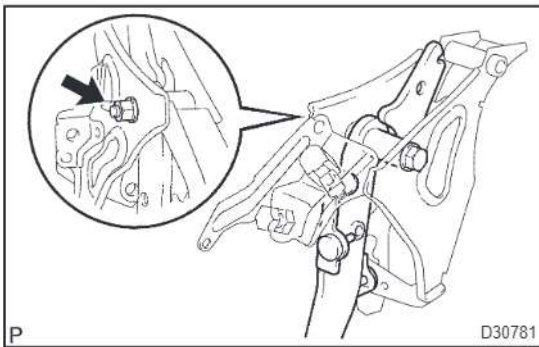
- (a) Mount the clutch pedal in a soft jaw vise.
- (b) Using a screwdriver, remove the spring.

7. REMOVE CLUTCH PEDAL TURNOVER BUSH (W/ TURN OVER)



8. REMOVE CLUTCH PEDAL TURNOVER BUSH (W/ TURN OVER)

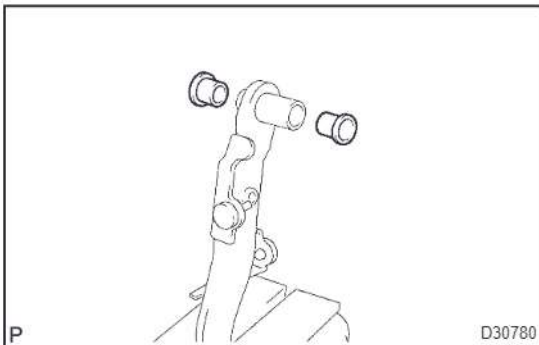
- (a) Using a 8 mm hexagon wrench and a hammer, remove the turn over bush.



9. REMOVE CLUTCH PEDAL SUB-ASSY

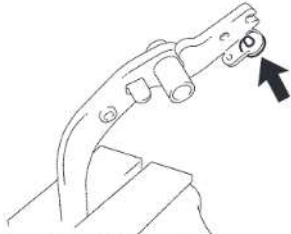
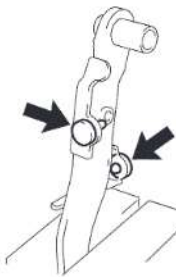
- (a) Remove the bolt and nut.
- (b) Remove the clutch pedal from the clutch pedal support.

10. REMOVE CLUTCH PEDAL PAD



11. REMOVE CLUTCH PEDAL BUSH

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

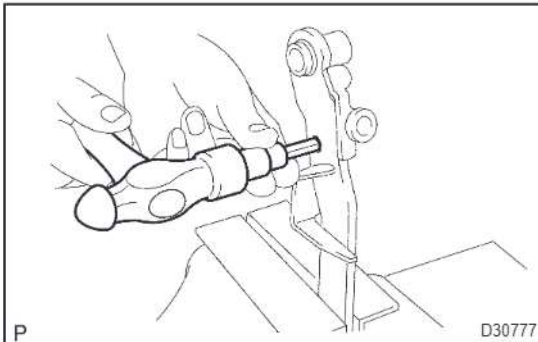
LHD Steering Position Type:**RHD Steering Position Type:**

P

D30779

12. REMOVE CLUTCH PEDAL NO.1 CUSHION

- (a) LHD steering position type:
Using needle-nose pliers, remove the No.1 cushion from the clutch pedal.
- (b) RHD steering position type:
Using needle-nose pliers, remove the 2 No.1 cushions from the clutch pedal.

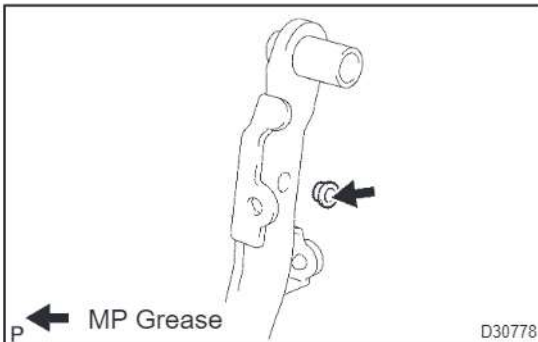


P

D30777

13. REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS BUSH

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



P

MP Grease

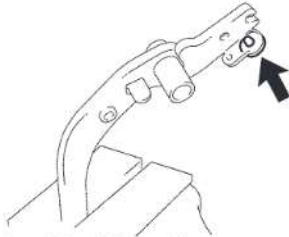
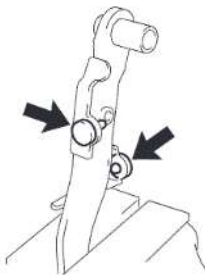
D30778

14. 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.

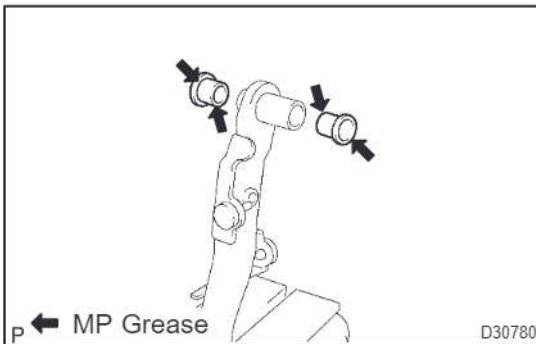
LHD Steering Position Type:**RHD Steering Position Type:**

P

D30779

15. INSTALL CLUTCH PEDAL NO.1 CUSHION

- (a) LHD steering position type:
Using needle-nose pliers, install the No.1 cushion to the clutch pedal.
- (b) RHD steering position type:
Using needle-nose pliers, install the 2 No.1 cushions to the clutch pedal.



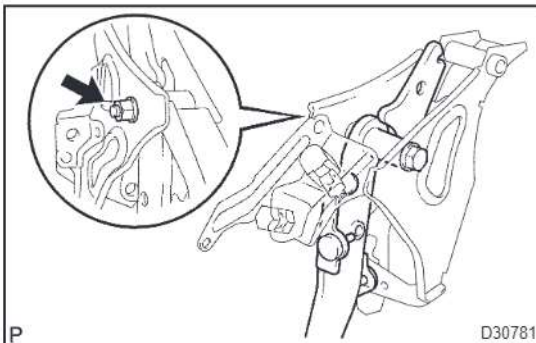
P

MP Grease

D30780

16. INSTALL CLUTCH PEDAL BUSH

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

17. INSTALL CLUTCH PEDAL PAD

P

D30781

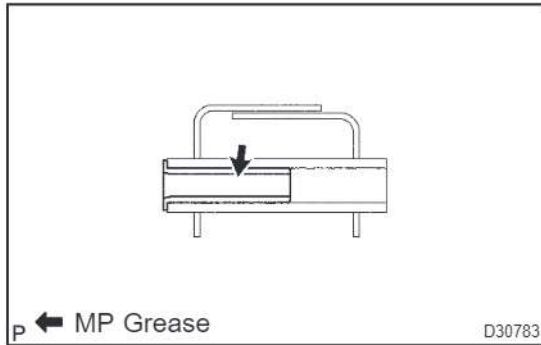
18. INSTALL CLUTCH PEDAL SUB-ASSY

- (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)

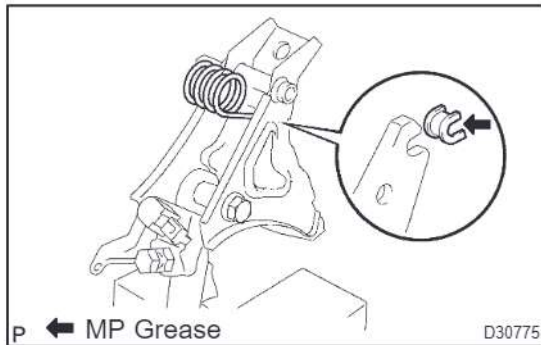
HINT:

Install the bolt from the right side of the vehicle.



19. INSTALL CLUTCH PEDAL TURNOVER BUSH (W/ TURN OVER)

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



20. INSTALL CLUTCH PEDAL TURNOVER BUSH (W/ TURN OVER)

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

21. INSTALL TURN OVER SPRING SEAT COMPRESSION SPRING (W/ TURN OVER)

- (a) Apply MP grease to the contact surface of the bush and spring.
- (b) Install the spring to the clutch pedal and clutch pedal support.

22. INSTALL CLUTCH PEDAL SUPPORT SUB-ASSY

- (a) LHD steering position type:
Install the clutch pedal support to the vehicle with the 2 nuts and bolt.

Torque:

Bolt: 19 N m (195 kgf cm, 14 ft lbf)

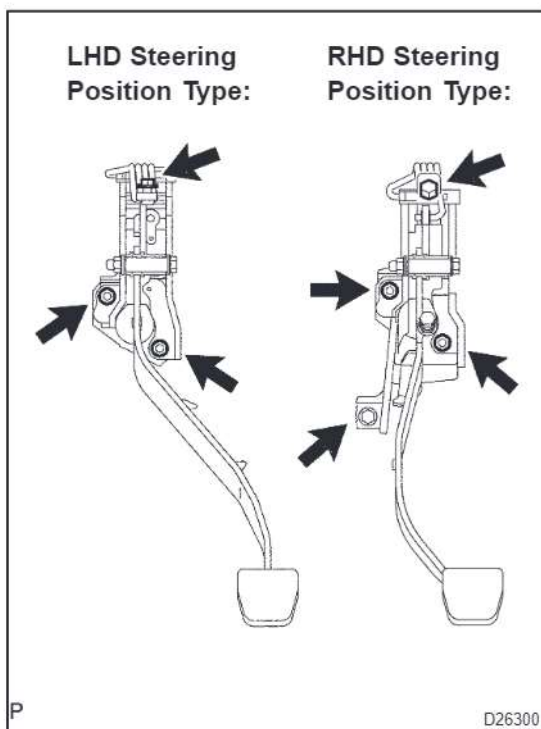
Nut: 12 N m (120 kgf cm, 9 ft lbf)

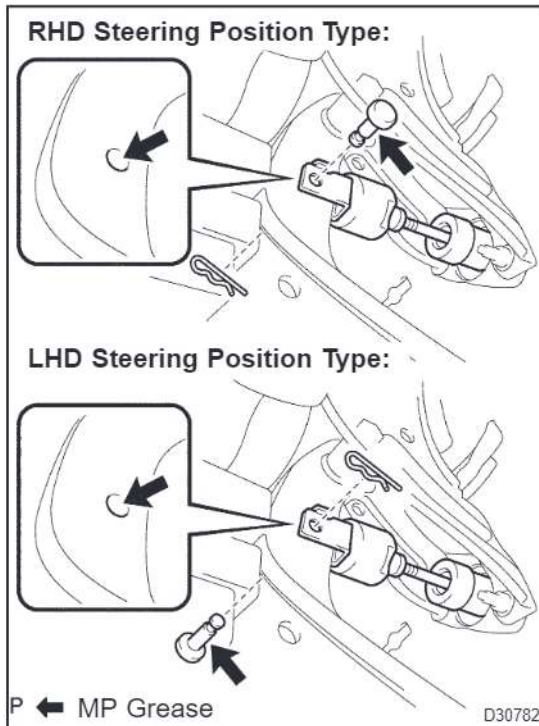
- (b) RHD steering position type:
Install the clutch pedal support to the vehicle with the 2 bolts and 2 nuts.

Torque:

Bolt: 19 N m (195 kgf cm, 14 ft lbf)

Nut: 12 N m (120 kgf cm, 9 ft lbf)





23. INSTALL CLUTCH MASTER CYLINDER PUSH ROD CLEVIS W/HOLE PIN

- Apply MP grease to the contact surface of the hole pin and clevis bush.
- Connect the clevis to the clutch pedal with the hole pin.

HINT:

- ▲ RHD steering position type:
Install the hole pin from the right side of the vehicle.
 - ▲ LHD steering position type:
Install the hole pin from the left side of the vehicle.
- Install the clip to the hole pin.

24. INSTALL CLUTCH PEDAL SPRING

25. INSTALL COMBINATION METER ASSY (RHD STEERING POSITION TYPE) (See page 71-21)

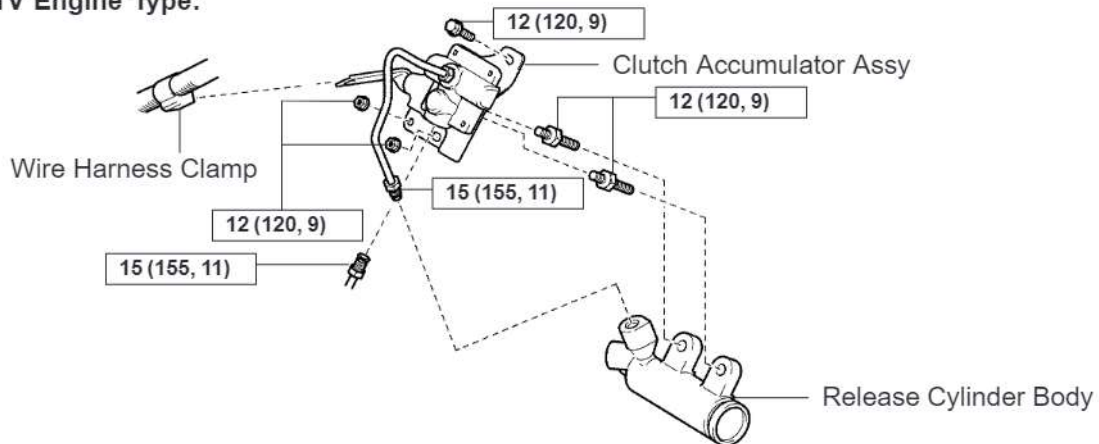
26. INSTALL INSTRUMENT PANEL SUB-ASSY LOWER (LHD STEERING POSITION TYPE) (See page 71-11)

27. INSPECT AND ADJUST CLUTCH PEDAL SUB-ASSY (See page 42-2)

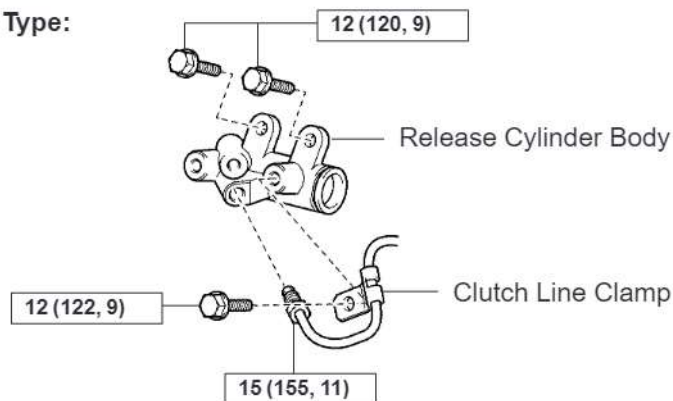
CLUTCH RELEASE CYLINDER ASSY (MTM) COMPONENTS

4202X-03

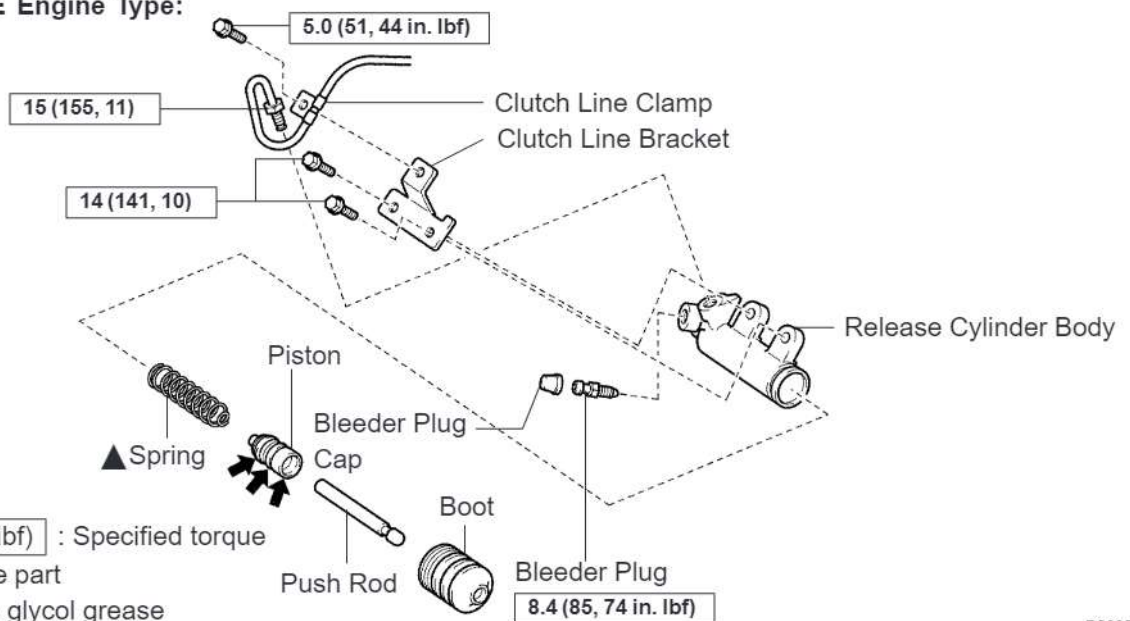
1CD-FTV Engine Type:



1AZ-FSE/1AZ-FE Engine Type:



1ZZ-FE/3ZZ-FE Engine Type:



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

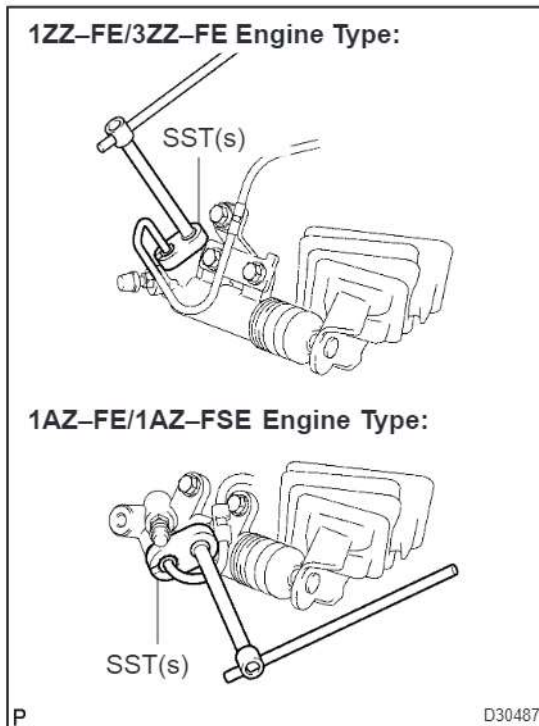
▲ Non-reusable part

◀ Lithium soap glycol grease

D30055

OVERHAUL

1. REMOVE BATTERY (1CD-FTV ENGINE TYPE)
2. REMOVE AIR TUBE NO.1 (1CD-FTV ENGINE TYPE) ([See page 14-286](#))

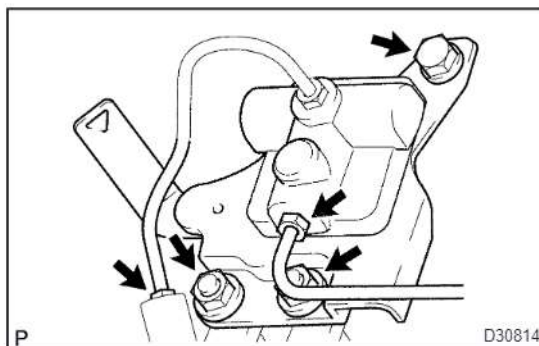


3. DISCONNECT CLUTCH RELEASE CYLINDER TO FLEXIBLE HOSE TUBE (EXCEPT 1CD-FTV ENGINE TYPE)

- (a) Using SST(s), disconnect the flexible hose tube.
SST 09023-00100

HINT:

Use a container to catch the fluid.



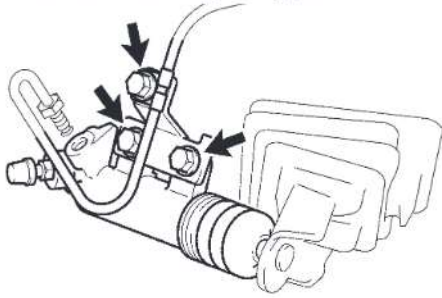
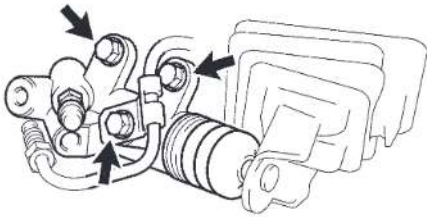
4. REMOVE CLUTCH ACCUMULATOR ASSY (1CD-FTV ENGINE TYPE)

- (a) Disconnect the wire harness clamp.
- (b) Using SST(s), disconnect the 2 flexible hose tubes.
SST 09023-00100

HINT:

Use a container to catch the fluid.

- (c) Remove the 2 nuts, bolt and clutch accumulator assy.

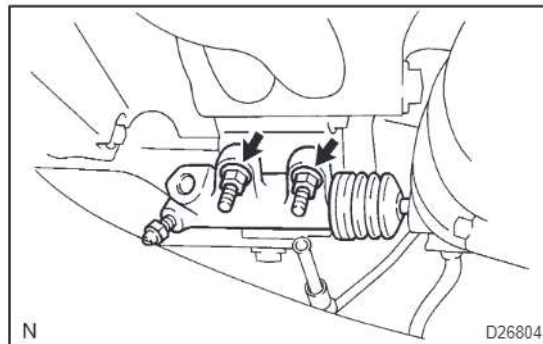
1ZZ-FE/3ZZ-FE Engine Type:**1AZ-FE/1AZ-FSE Engine Type:**

P

D30488

5. REMOVE CLUTCH RELEASE CYLINDER ASSY (EXCEPT 1CD-FTV ENGINE TYPE)

- (a) 1ZZ-FE/3ZZ-FE Engine Type:
Remove the 3 bolts, clutch release cylinder assy, and clutch line bracket.
- (b) 1AZ-FE/1AZ-FSE Engine Type:
Remove the 3 bolts and clutch release cylinder assy.



N

D26804

6. REMOVE CLUTCH RELEASE CYLINDER ASSY (1CD-FTV ENGINE TYPE)

- (a) Using a 12 mm deep socket wrench, remove the 2 bolts and clutch release cylinder assy.

7. 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.

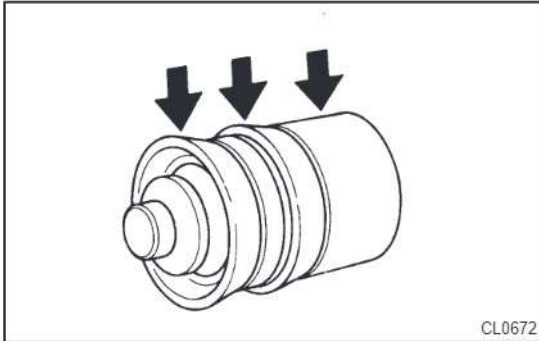
- (d) Remove the spring from the cylinder body.
- (e) Remove the bleeder plug cap from the bleeder plug.

8. REMOVE RELEASE CYLINDER BLEEDER PLUG**9. INSTALL RELEASE CYLINDER BLEEDER PLUG**

Torque: 8.3 N m (85 kgf cm, 73 in. lbf)

10. INSTALL CLUTCH RELEASE CYLINDER KIT

- (a) Install the bleeder plug cap to the bleeder plug.
- (b) Install a new spring to the cylinder body.

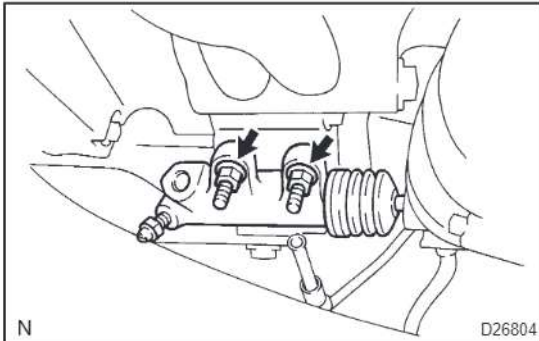


- (c) Coat the parts with lithium soap base glycol grease, as shown in the illustration.
- (d) Install the piston to the cylinder body.

NOTICE:

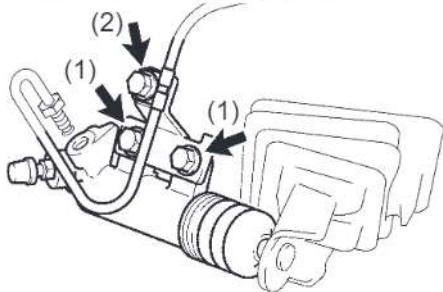
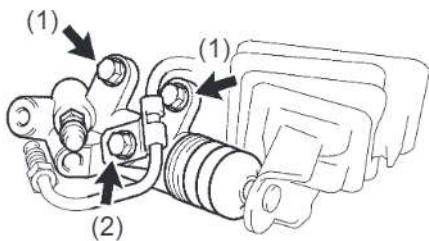
Be careful not to damage the inside of the cylinder body.

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

**11. INSTALL CLUTCH RELEASE CYLINDER ASSY (1CD-FTV ENGINE TYPE)**

- (a) Using a 12 mm deep socket wrench, install the clutch release cylinder assy with the 2 bolts.

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

1ZZ-FE/3ZZ-FE Engine Type:**1AZ-FE/1AZ-FSE Engine Type:**

P D30488

12. INSTALL CLUTCH RELEASE CYLINDER ASSY (EXCEPT 1CD-FTV ENGINE TYPE)

- (a) 1ZZ-FE/3ZZ-FE Engine Type:

- (1) Install the clutch release cylinder and clutch line bracket with the 2 bolts.

Torque: 14 N m (141 kgf cm, 10 ft lbf)

- (2) Install the flexible hose tube with the bolt.

Torque: 5.0 N m (51 kgf cm, 44 in. lbf)

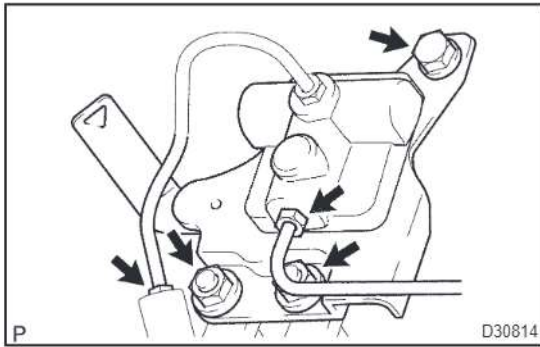
- (b) 1AZ-FE/1AZ-FSE Engine Type:

- (1) Install the clutch release cylinder with the 2 bolts.

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

- (2) Install the flexible hose tube with the bolt.

Torque: 12 N m (122 kgf cm, 9 ft lbf)



13. INSTALL CLUTCH ACCUMULATOR ASSY (1CD-FTV ENGINE TYPE)

- (a) Install the clutch accumulator assy with the 2 nuts and bolt.

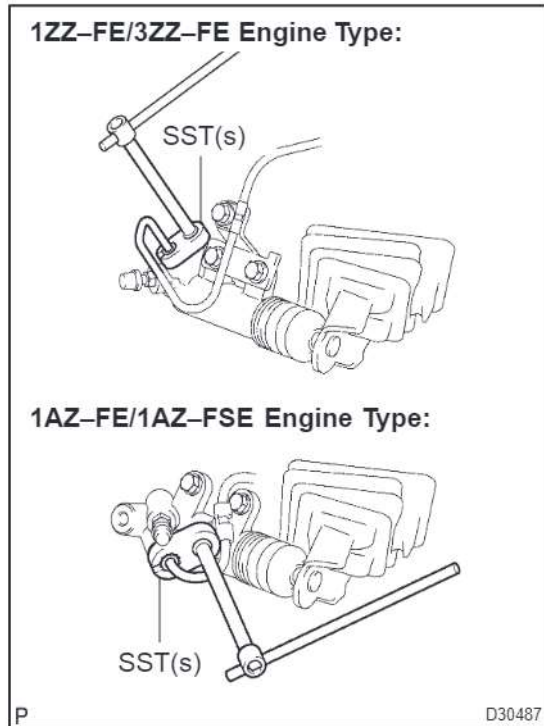
Torque: 12 N m (120 kgf cm, 9 ft lbf)

- (b) Using SST(s), connect the 2 flexible hose tubes.

SST 09023-00100

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

- (c) Connect the wire harness clamp.



14. CONNECT CLUTCH RELEASE CYLINDER TO FLEXIBLE HOSE TUBE (EXCEPT 1CD-FTV ENGINE TYPE)

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

SST 09023-00100

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

15. INSTALL AIR TUBE NO.1 (1CD-FTV ENGINE TYPE) (See page 14-286)

16. INSTALL BATTERY (1CD-FTV ENGINE TYPE)

17. BLEED CLUTCH PIPE LINE

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

Torque: 8.3 N m (85 kgf cm, 73 in. lbf)

18. CHECK CLUTCH FLUID LEAKAGE

CLUTCH SYSTEM (MTM)

PROBLEM SYMPTOMS TABLE

4200B-04

HINT:

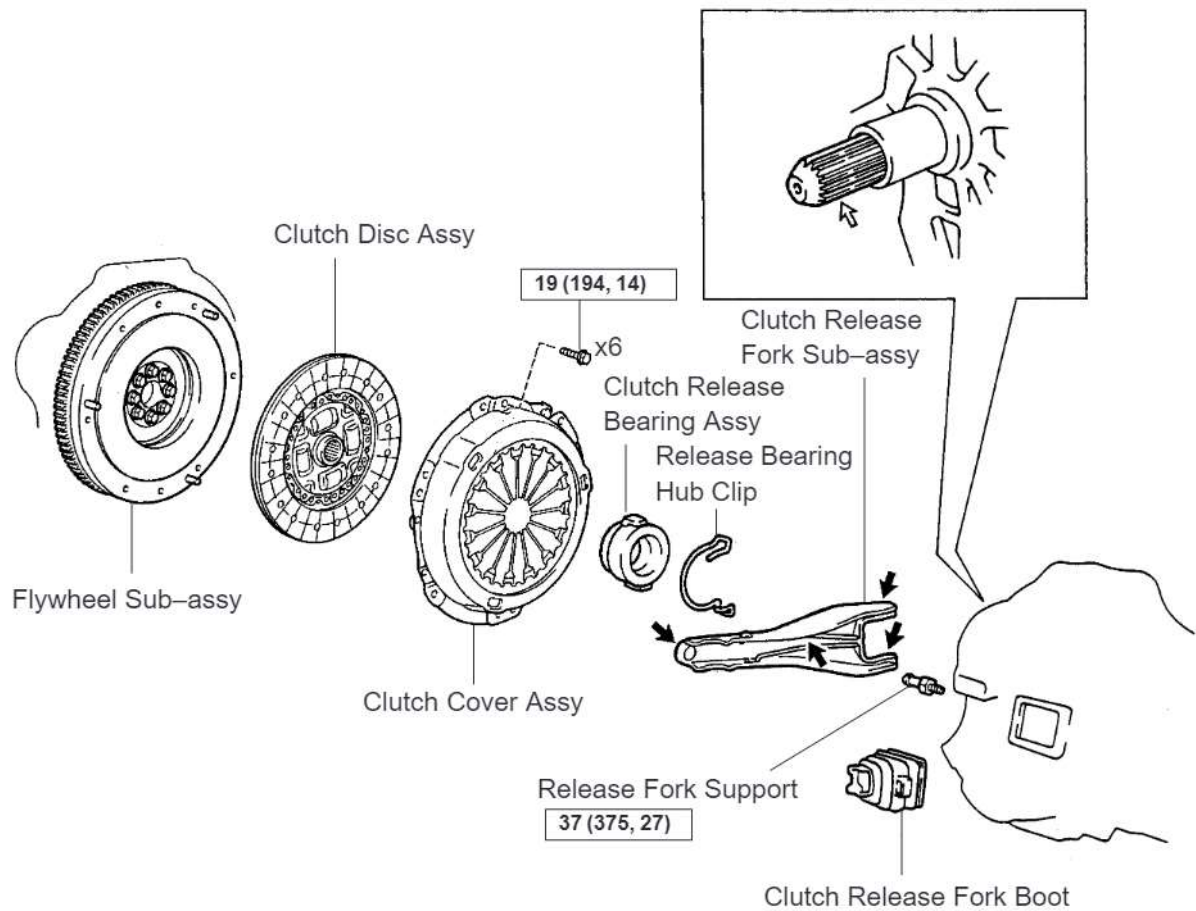
Use the table below to help find the cause of the problem. The numbers indicate the likelihood of the possible cause in descending order. Check each part in the order shown. Replace these parts as necessary.

Symptom	Suspect Area	See page
Clutch grabs/chatters	1. Engine mounting (Loosen)	–
	2. Clutch disc assy (Runout is excessive)	42-26
	3. Clutch disc assy (Oily)	42-26
	4. Clutch disc assy (Worn out)	42-26
	5. Clutch disc torsion rubber (Damaged)	42-26
	6. Clutch disc assy (Glazed)	42-26
	7. Diaphragm spring (Out of tip alignment)	42-26
Clutch pedal spongy	1. Clutch Line (Air in line)	–
	2. Master cylinder (Damaged)	42-13
	3. Release cylinder rubber (Damaged)	42-17
Clutch noisy	1. Clutch release bearing assy (Worn, dirty, or damaged)	42-26
	2. Clutch disc torsion rubber (Damaged)	42-26
Clutch slips	1. Clutch pedal (Free play out of adjustment)	42-2
	2. Clutch disc assy (Oily)	42-26
	3. Clutch disc assy (Worn out)	42-26
	4. Diaphragm spring (Damaged)	42-26
	5. Pressure plate (Distortion)	42-26
	6. Flywheel sub-assy (Distortion)	–
Clutch does not disengage	1. Clutch pedal (Free play out of adjustment)	42-2
	2. Clutch line (Air in line)	–
	3. Master cylinder (Damaged)	42-13
	4. Release cylinder cup (Damaged)	42-17
	5. Clutch disc assy (Out of true)	42-26
	6. Clutch disc assy (Runout of excessive)	42-26
	7. Clutch disc assy (Lining broken)	42-26
	8. Clutch disc assy (Dirty or burned)	42-26
	9. Clutch disc assy (Oily)	42-26
	10. Clutch disc assy (Lack of spline grease)	42-26

CLUTCH UNIT (MTM) COMPONENTS

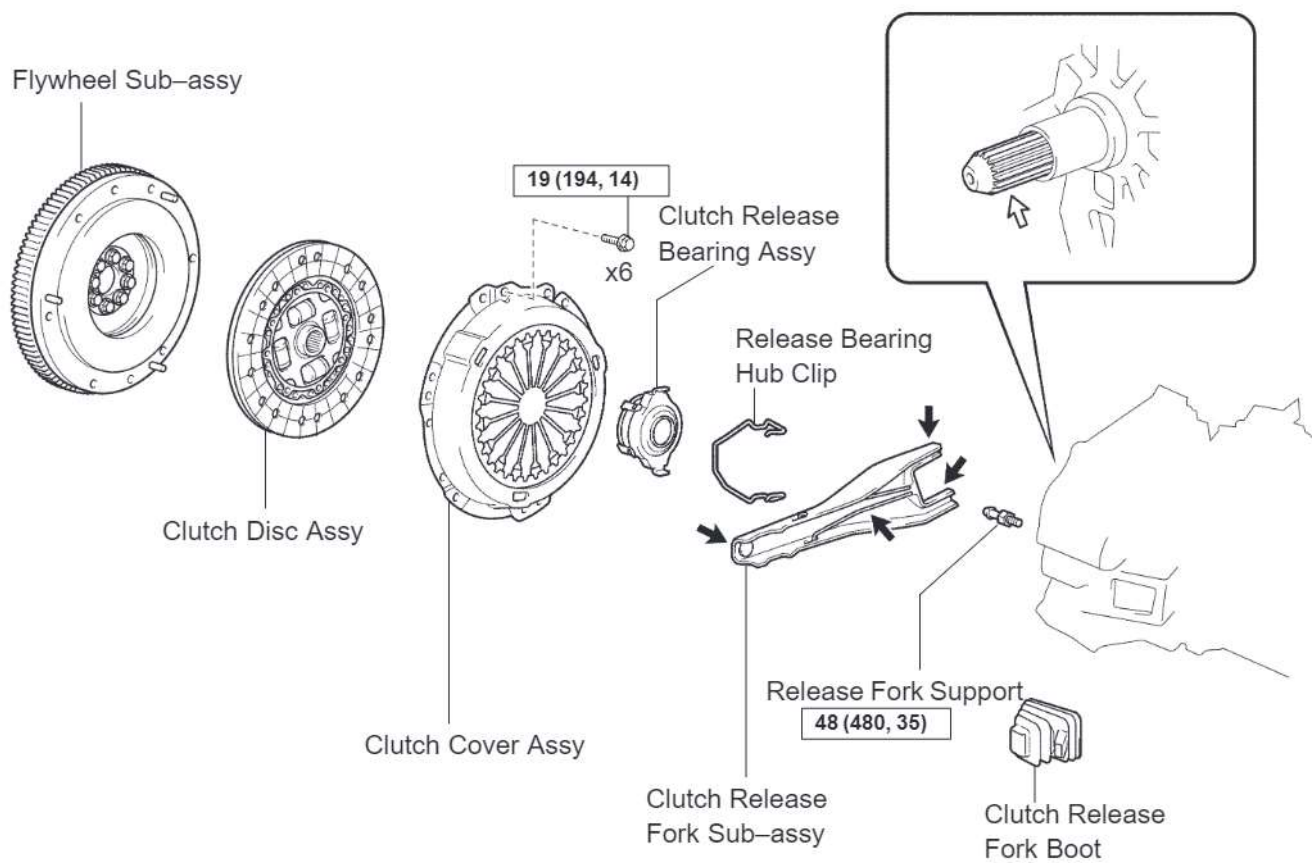
4206H-01

1ZZ-FE/3ZZ-FE Engine Type:



D26321

1AZ-FSE/1AZ-FE Engine Type:



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

▲ Non-reusable part

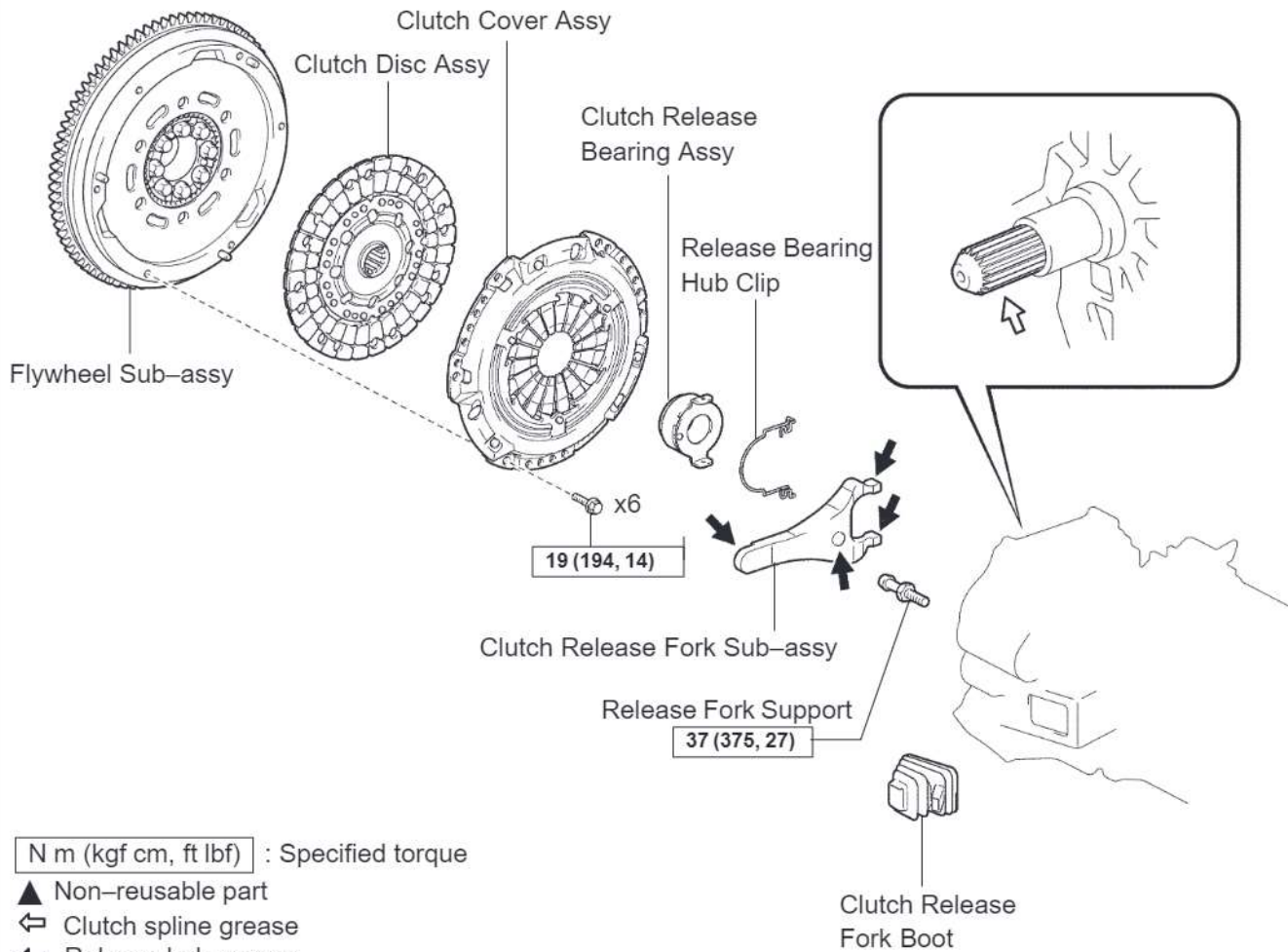
↺ Clutch spline grease

↪ Release hub grease

P

D30056

1CD-FTV Engine Type:



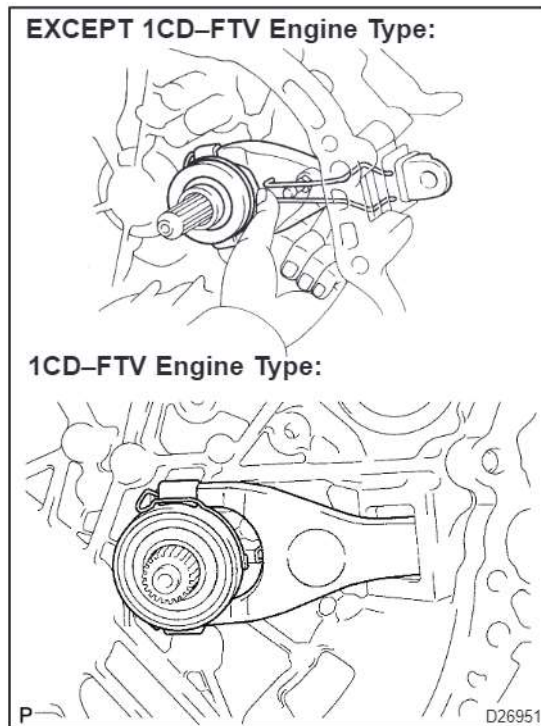
P

D30057

OVERHAUL

1. REMOVE MANUAL TRANSAXLE ASSY

- (a) 1ZZ-FE, 3ZZ-FE Engine (See page 41-15)
- (b) 1AZ-FE, 1AZ-FSE Engine (See page 41-24)
- (c) 1CD-FTV Engine (See page 41-33)



2. REMOVE CLUTCH RELEASE FORK SUB-ASSY

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

3. REMOVE CLUTCH RELEASE BEARING ASSY

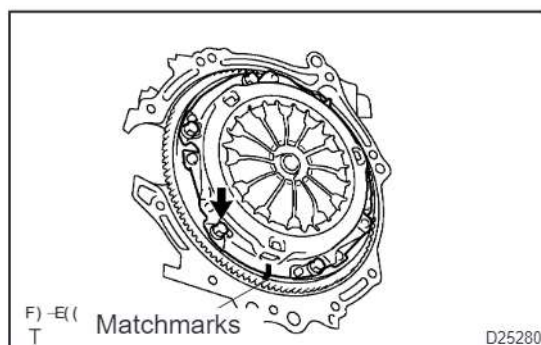
- (a) Remove the clutch release bearing assy from the clutch release fork.

4. REMOVE RELEASE FORK SUPPORT

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

5. REMOVE RELEASE BEARING HUB CLIP

6. REMOVE CLUTCH RELEASE FORK BOOT



7. REMOVE CLUTCH COVER ASSY

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

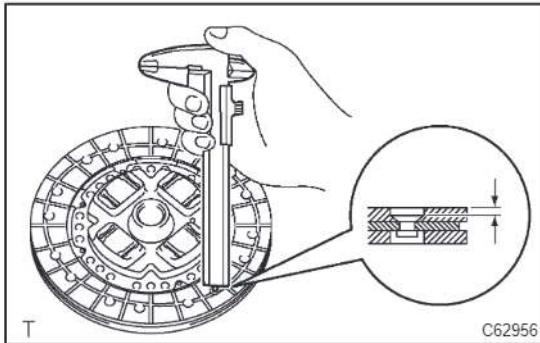
NOTICE:

Do not drop the clutch disc assy.

8. REMOVE CLUTCH DISC ASSY

NOTICE:

Keep the lining part of the clutch disc assy, the pressure plate and surface of the flywheel sub-assy away from oil and foreign attachment.



9. INSPECT CLUTCH DISC ASSY

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

Maximum rivet depth: 0.3 mm (0.012 in.)

Replace the clutch disc assy as necessary.

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

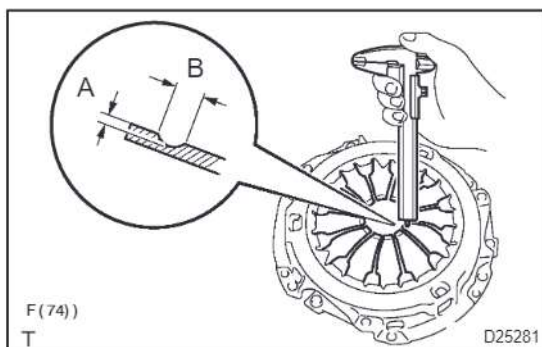
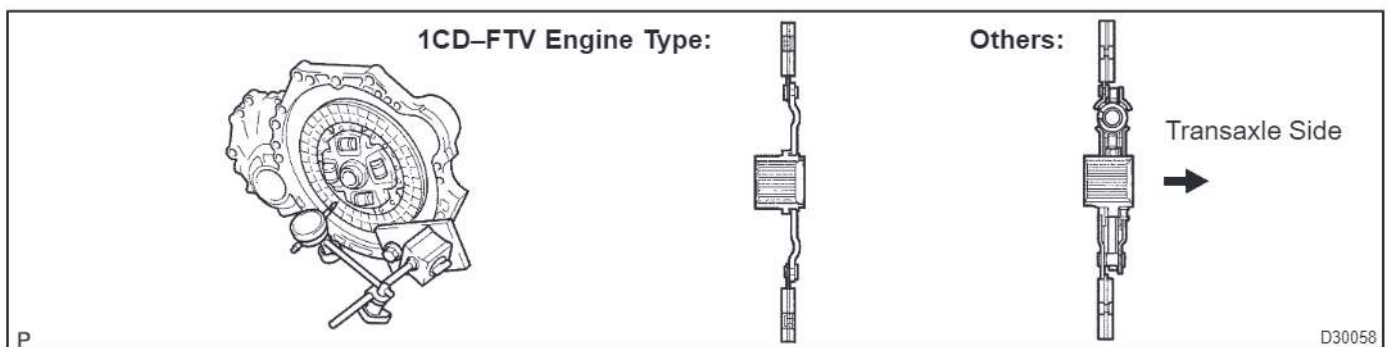
NOTICE:

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

- (c) Using a dial gage, check the clutch disc assy runout.

Minimum runout: 0.8 mm (0.031 in.)

Replace the clutch disc assy as necessary.



10. INSPECT CLUTCH COVER ASSY

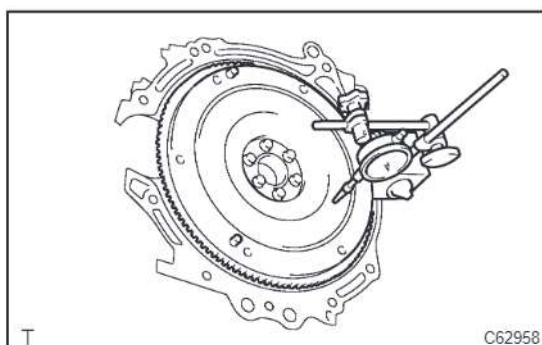
- (a) Using vernier calipers, inspect the diaphragm spring for the depth and width of wear.

Maximum:

A (Depth): 0.5 mm (0.020 in.)

B (Width): 6.0 mm (0.236 in.)

Replace the clutch cover assy as necessary.

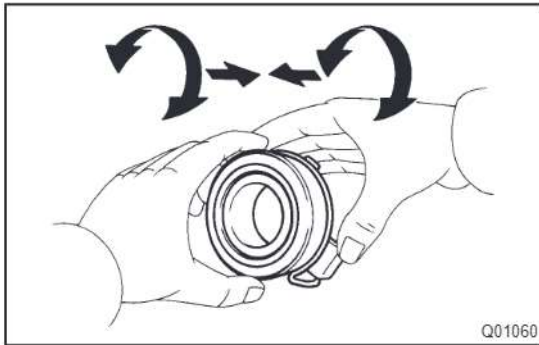


11. INSPECT FLYWHEEL SUB-ASSY

- (a) Using a dial gage, inspect the flywheel sub-assy runout.

Maximum runout: 0.1 mm (0.004 in.)

Replace the flywheel sub-assy as necessary.

**12. INSPECT CLUTCH RELEASE BEARING ASSY**

- (a) Turn the release bearing by hand while applying force in the axial direction.

HINT:

The bearing is permanently lubricated and requires no cleaning or lubrication.

Replace the release bearing assy as necessary.

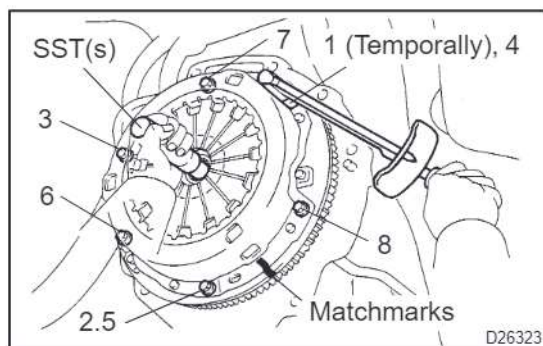
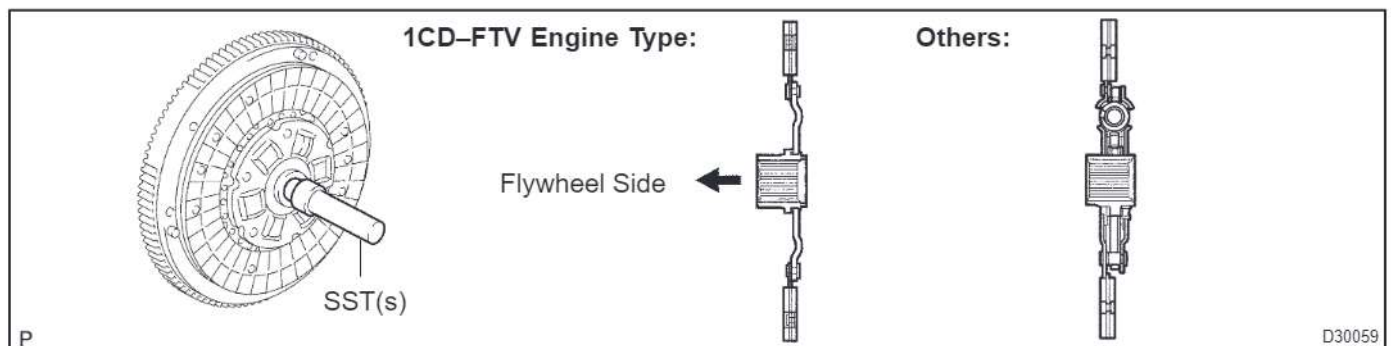
13. INSTALL CLUTCH DISC ASSY

- (a) Insert SST(s) in the clutch disc assy, then insert them in the flywheel sub-assy.

SST 09301-00220

NOTICE:

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

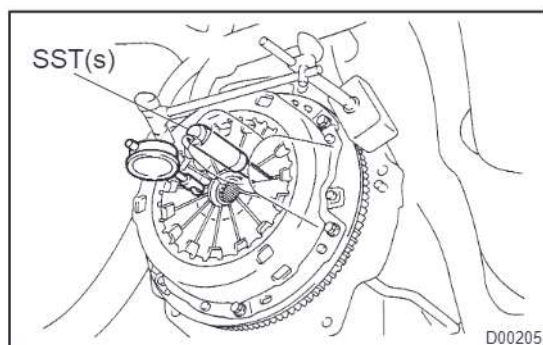
**14. INSTALL CLUTCH COVER ASSY**

- (a) Align matchmarks on the clutch cover assy and flywheel sub-assy.
- (b) Following the procedures shown in the illustration, tighten the 6 bolts, in the order starting from the bolt located near the knock pin on the top.

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

HINT:

- ▲ Following the order in the illustration, tighten the bolts at a time evenly.
- ▲ Move SST(s) up and down, right and left lightly, after checking that the disc is in the center, and then tighten the bolts.

**15. INSPECT AND ADJUST CLUTCH COVER ASSY**

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

Maximum non-alignment: 0.5 mm (0.020 in.)

If the alignment is not as specified, adjust the diaphragm spring tip alignment using SST(s).

SST 09333-00013

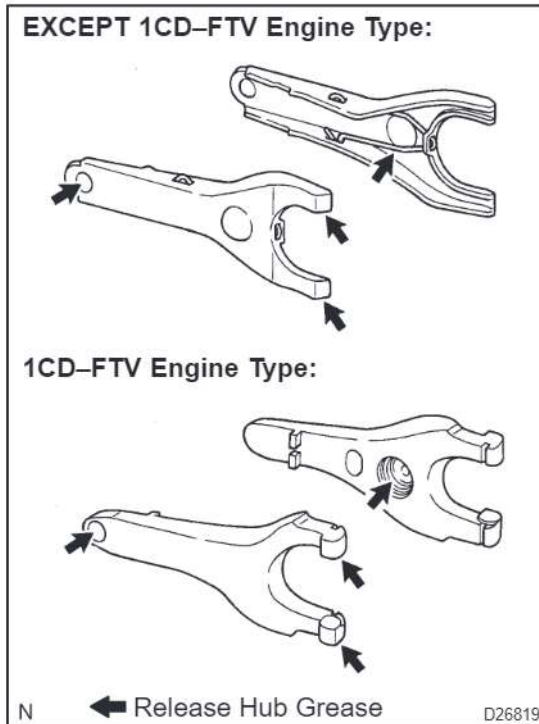
16. INSTALL RELEASE FORK SUPPORT

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

Torque:

1ZZ-FE/3ZZ-FE/1CD-FTV Engine Type: 37 N m (375 kgf cm, 27 ft lbf)

1AZ-FSE/1AZ-FE Engine Type: 47 N m (480 kgf cm, 35 ft lbf)

17. INSTALL RELEASE BEARING HUB CLIP**18. INSTALL CLUTCH RELEASE FORK SUB-ASSY**

- (a) Apply the release hub grease to the release fork and release bearing assy contact, release fork and push rod contact, and release fork pivot points.

Sealant:

Part No. 08887-01806, RELEASE HUB GREASE or equivalent

- (b) Install the release fork to the release bearing assy.

19. INSTALL CLUTCH RELEASE BEARING ASSY

- (a) Apply the clutch spline grease to the input shaft spline.

Sealant:

Part No. 08887-01706, CLUTCH SPLINE GREASE or equivalent

- (b) Install the bearing to the release fork, and then install them to the transaxle assy.

NOTICE:

After the installation, move the fork forward and backward to check that the release bearing slides smoothly.

20. INSTALL CLUTCH RELEASE FORK BOOT**21. INSTALL MANUAL TRANSAXLE ASSY**

- (a) 1ZZ-FE, 3ZZ-FE Engine ([See page 41-15](#))
 (b) 1AZ-FE, 1AZ-FSE Engine ([See page 41-24](#))
 (c) 1CD-FTV Engine ([See page 41-33](#))