
CLUTCH

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CLUTCH SYSTEM

PROBLEM SYMPTOMS TABLE

Symptom	Part to be checked	Reference page
Backlash during clutch connection	Engine mounting (for looseness)	-
	Clutch disc (for runout)	27-48
	Clutch disc (for adhesion of oil)	27-48
	Clutch disc (for wear)	27-48
	Clutch disc (for damage)	27-48
	Diaphragm spring (for unequal height)	27-50
No clutch pedal feel	Clutch pipeline (for trapped air)	27-2
	Master cylinder piston (for damage)	-
	Release cylinder piston (for damage)	-
Abnormal sound of clutch	Release bearing (for wear, dirt, or damage)	27-49
	Clutch disc (for damage)	27-48
Clutch slipping	Clutch pedal (for free play)	27-20
	Clutch disc (for adhesion of oil)	27-48
	Clutch disc (for wear)	27-48
	Diaphragm spring (for damage)	27-49
	Flywheel (for distortion)	-
	Clutch pedal (for free play)	27-20
Clutch not engaged	Clutch pipeline (for trapped air)	27-2
	Master cylinder piston (for damage)	-
	Release cylinder cup (for damage)	-
	Clutch disc (for out of position)	27-50
	Clutch disc (for runout)	27-48
	Clutch disc (for damaged lining)	27-48
	Clutch disc (for dirt or seizing up)	27-48
	Clutch disc (for adhesion of oil)	27-48
	Clutch disc (for lack of spline grease)	27-48
	Diaphragm spring (for damage)	27-50
	Diaphragm spring (for unequal height)	27-50

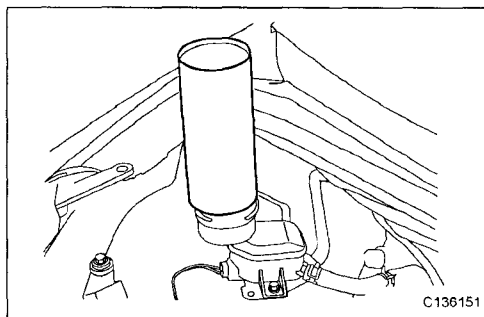
CLUTCH FLUID

REPLACEMENT

1. Precautions

<CAUTION>

Keep clutch fluid off the painted surface. If the fluid is attached, wash it off immediately.

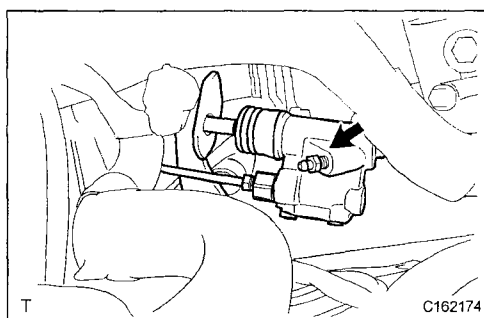


2. Clutch fluid replenishment

- (1) Put a can of brake fluid on the reservoir upside down.

<CAUTION>

- > Make sure that the can contains enough amount of brake fluid.
- > Before replenishment, make sure that the reservoir on top of the master cylinder assembly is full.



3. Air bleeding for clutch fluid replacement

- (1) Connect vinyl tube to bleeder plug of the clutch release cylinder assembly.
- (2) Step on the clutch pedal a few times, hold down the clutch pedal, and then loosen the bleeder plug.
- (3) When clutch fluid does not come out any more, tighten the bleeder plug and release the brake pedal.
Specified value: $T=8.0N \cdot m$ {82kgf*cm} (bleeder plug)
- (4) Repeat this until there is no air trapped in the brake fluid.

<CAUTION>

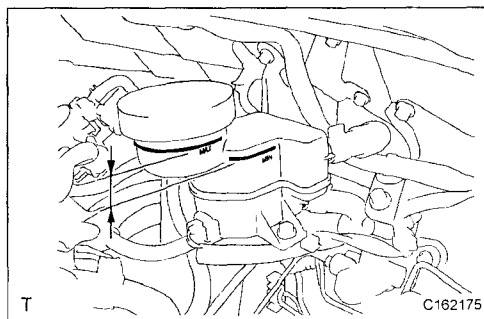
Keep the fluid above the MIN level during the work.

4. Clutch fluid amount check

- (1) Check the amount of brake fluid and if necessary, replenish it to the MAX position on the reservoir.

<CAUTION>

- > If you want to use a dropper to adjust the amount of fluid, do not select a dropper that has been used for dropping mineral oil, water, or degraded brake fluid. This may degrade sealed parts or fluid, resulting in fluid leakage or poor braking effectiveness.
- > The reserve tank is shared with brake fluid. Therefore the clutch fluid is to be the same as the brake fluid.

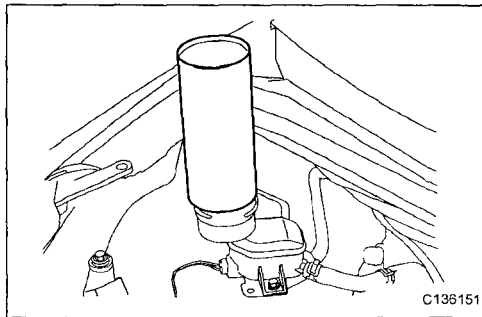


AIR BLEEDING

1. Precautions

<CAUTION>

- > After removing or attaching the brake system parts, or if trapped air in the brake lines is suspected, bleed air from the brake system.
- > Keep brake fluid off the painted surface. If brake fluid is attached, wash it off immediately.



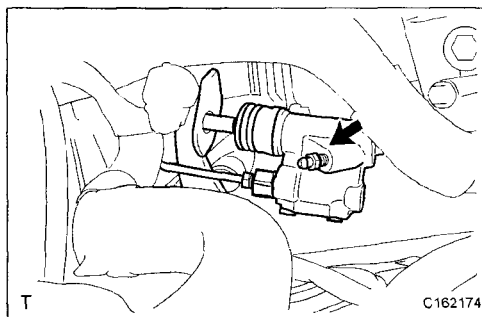
2. Clutch system air bleeding

(1) Clutch fluid replenishment

- (a) Put a can of brake fluid on the reservoir upside down.

<CAUTION>

Make sure that the can contains enough amount of brake fluid.



(2) Clutch system

- (a) Connect vinyl tube to bleeder plug of the clutch release cylinder assembly.

- (b) Step on the clutch pedal a few times, hold down the clutch pedal, and then loosen the bleeder plug.

- (c) When brake fluid does not come out any more, tighten the bleeder plug and release the clutch pedal.

Specified value: $T=8.0N \cdot m$ {82kgf*cm} (bleeder plug)

- (d) Repeat this until there is no air trapped in the brake fluid.

<CAUTION>

Keep the fluid above the MIN level during the work.

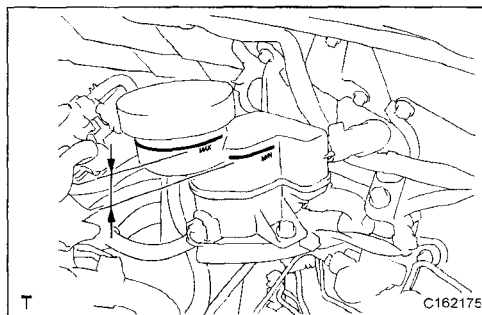
(3) Brake fluid amount check

- (a) Check the amount of brake fluid and if necessary, replenish it to the MAX position on the reservoir.

<CAUTION>

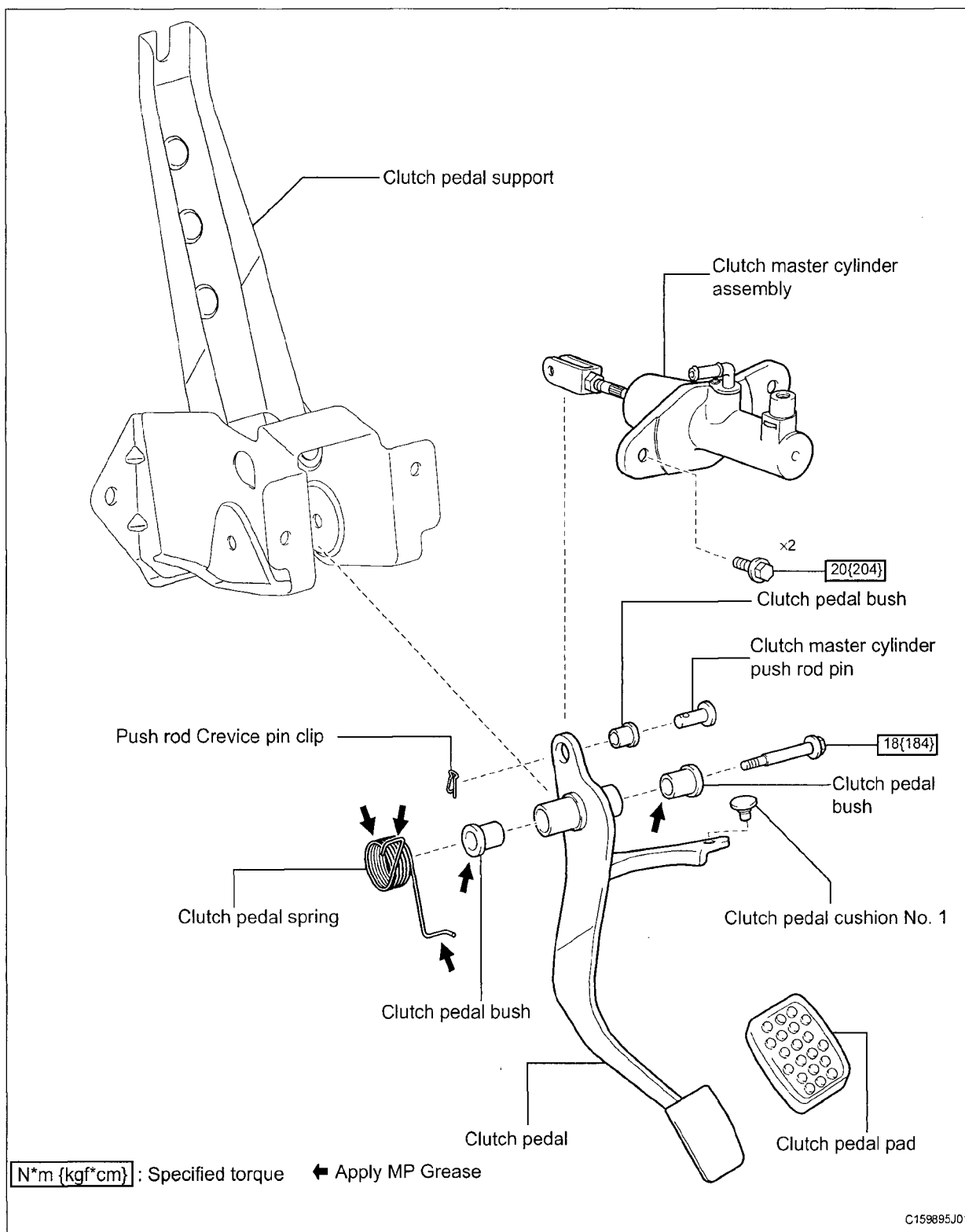
- > If you want to use a dropper to adjust the amount of fluid, do not select a dropper that has been used for dropping mineral oil, water, or degraded brake fluid. This may degrade sealed parts or fluid, resulting in fluid leakage or poor braking effectiveness.

- > The reserve tank is shared with brake fluid. Therefore the clutch fluid is to be the same as the brake fluid.



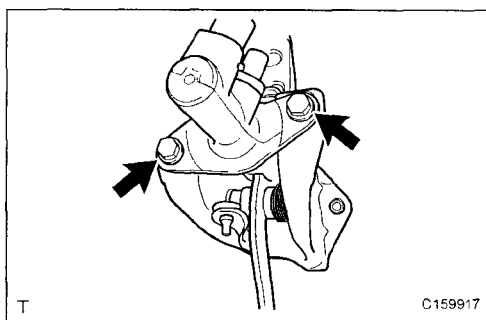
CLUTCH PEDAL (RHD)

COMPONENTS

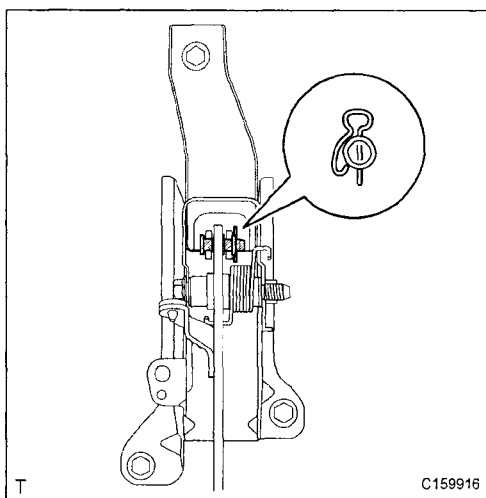


REMOVAL

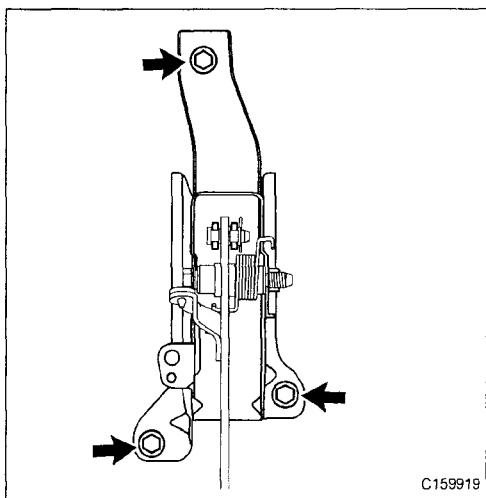
1. Instrument panel finish panel LWR removal (See page 78-22)



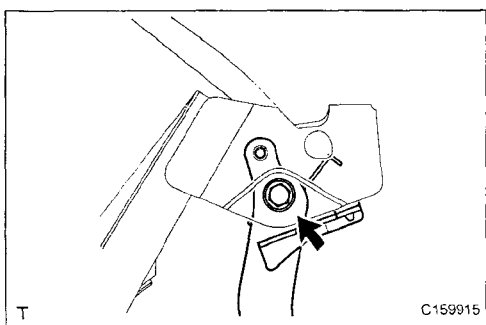
2. Clutch master cylinder assembly disconnection
 - (1) Remove 2 bolts and remove the clutch master cylinder assembly from the clutch pedal support.



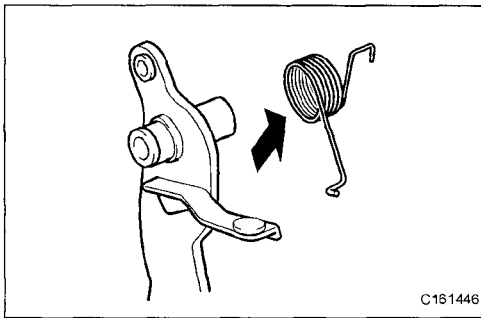
- (2) Remove the pushrod crevice pin clip and remove the clutch master cylinder pushrod pin from the clutch pedal.
 - (3) Disconnect the clutch master cylinder assembly from the clutch pedal.



3. Clutch pedal support removal
 - (1) Remove the bolt and 2 nuts and remove the clutch pedal support from the vehicle.

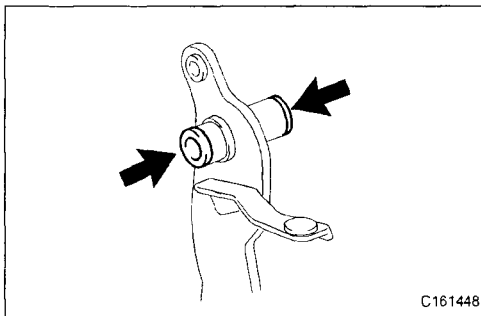


4. Clutch pedal removal
 - (1) Remove the bolt and remove the clutch pedal from the clutch pedal support.



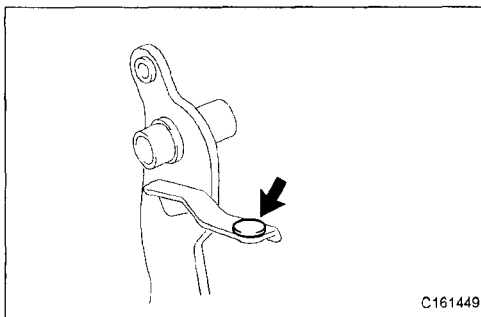
5. Clutch pedal spring removal

- (1) Remove the clutch pedal spring from the clutch pedal.



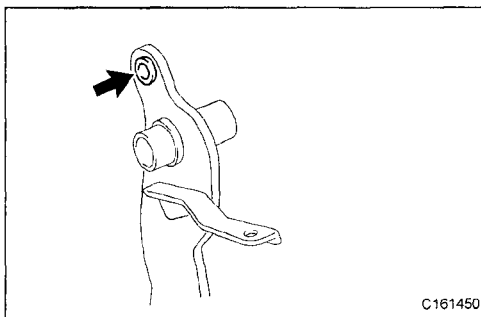
6. Clutch pedal bush removal

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



7. Clutch pedal cushion No. 1 removal

- (1) Remove the clutch pedal cushion No. 1 from the clutch pedal.



8. Clutch pedal bush removal

- (1) Remove the clutch pedal bush from the clutch pedal.

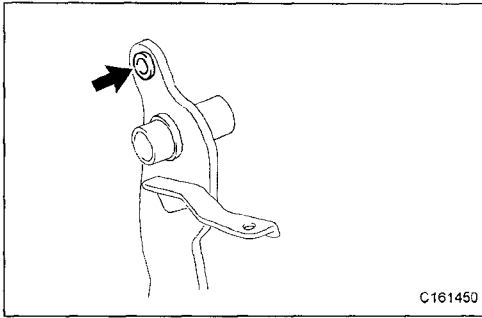
9. Clutch pedal pad removal

- (1) Remove the clutch pedal pad from the clutch pedal.

INSTALLATION

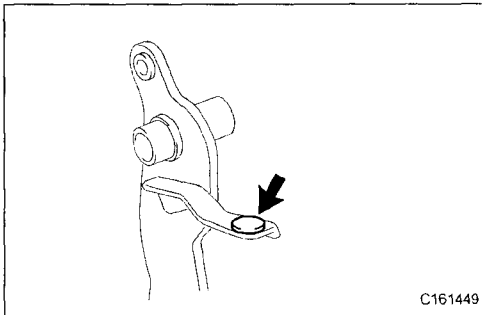
1. Clutch pedal pad installation

- (1) Attach the clutch pedal pad to the clutch pedal.



2. Clutch pedal bush installation

- (1) Attach the clutch pedal bush to the clutch pedal.



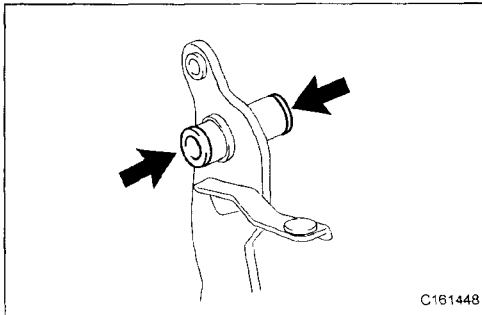
3. Clutch pedal cushion No. 1 installation

- (1) Attach the clutch pedal cushion No. 1 to the clutch pedal.

4. Clutch pedal bush installation

- (1) Coat the inner and outer surfaces of the clutch pedal bushes and the clutch pedal bush insertion hole in the clutch pedal with MP grease.

- (2) Attach 2 clutch pedal bushes to the clutch pedal.

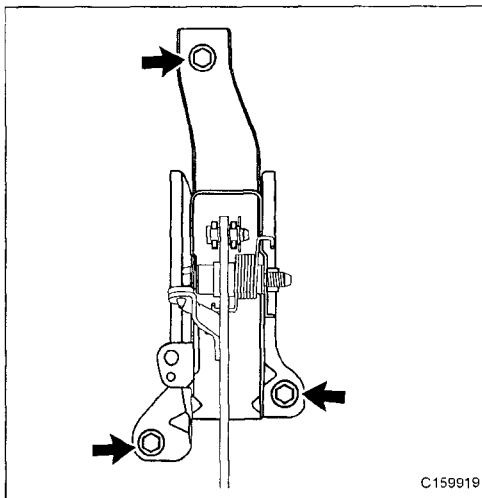


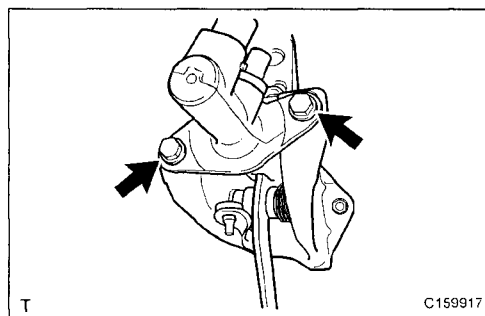
5. Clutch pedal support installation

- (1) Use a bolt and 2 nuts to attach the clutch pedal support to the vehicle.

Specified value: $T=18\text{N}\cdot\text{m}$ {184kgf*cm} (Bolt)

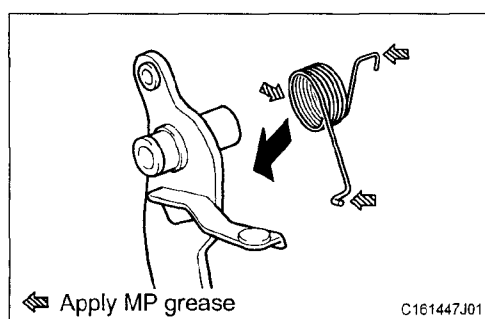
$T=18\text{N}\cdot\text{m}$ {184kgf*cm} (Nut)





6. Temporary fixing of the clutch master cylinder assembly

- (1) Use 2 bolts to attach the clutch master cylinder assembly to the clutch pedal support.
Specified value: $T=20N \cdot m$ {204kgf*cm}

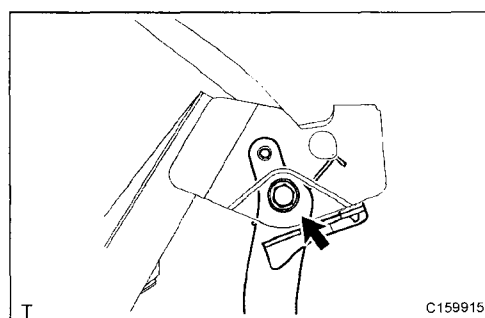


7. Clutch pedal spring installation

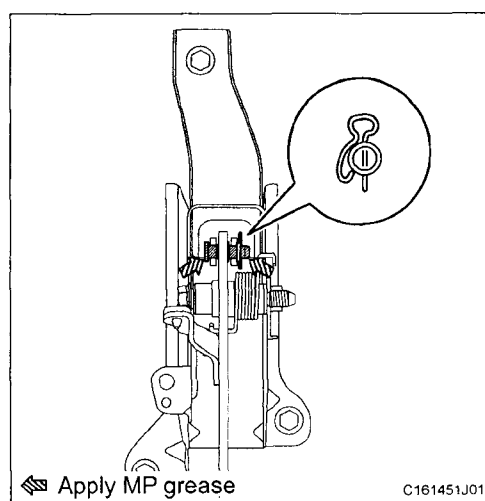
- (1) Coat the inner surface of the clutch pedal spring and the contact surfaces of the clutch pedal and clutch pedal spring with MP grease. Attach the clutch pedal spring to the clutch pedal.

8. Clutch pedal installation

- (1) Coat the entire circumference of the bolt with MP grease.

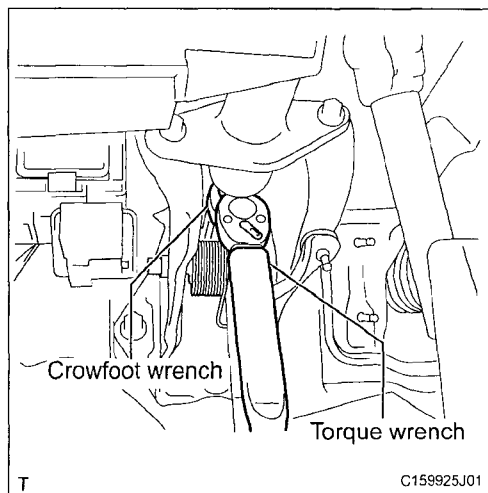


- (2) Use a bolt to attach the clutch pedal to the clutch pedal support.
Specified value: $T=18N \cdot m$ {184kgf*cm}



9. Clutch master cylinder assembly installation

- (1) Coat the clutch master cylinder pushrod pin, the crevice holes in the clutch master cylinder assembly, and the crevice hole in the clutch pedal with MP grease. Rotate the rod of the clutch master cylinder assembly and use the clutch master cylinder pushrod pin to attach the crevice in the clutch master cylinder assembly to the clutch pedal.
- (2) Attach the pushrod crevice pin clip to the clutch master cylinder pushrod pin.



- (3) Tighten the lock nut of the rod of the clutch master cylinder assembly by using a preset torque wrench with ratchet and crowfoot wrench.

Tool: Preset torque wrench with ratchet {Tonichi(QL25-MH) or equivalent}

Crow foot wrench {KTC (NBNS3-12) or equivalent}

Specified value: $T=20N \cdot m$ {204kgf $\cdot$ cm}

<HINT>

- > To prevent the clutch pedal wheel tread from interfering with the torque wrench, slightly hold down the pedal and then tighten the lock nut.
- > Make sure that the clutch pedal operates smoothly to its full stroke without producing abnormal sound and returns to the initial position smoothly.
- > Make sure that the rod of the clutch master cylinder assembly has a backlash (free play) when the clutch pedal is at the initial position.

10. Clutch pedal check · adjustment

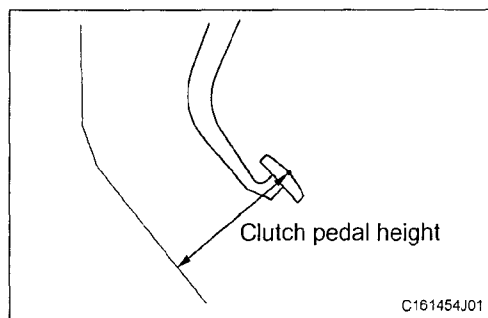
(See page 27-9)

11. Instrument panel finish panel LWR installation (See page 78-31)

ADJUSTMENT

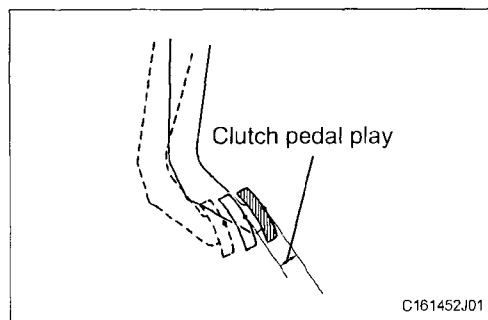
1. Clutch pedal check · adjustment

- (1) Roll up the floor carpet under the clutch pedal.



- (2) Measure clutch pedal height using a vernier caliper.

Specified value: 149.1 mm



- (3) Operate the clutch pedal to its full stroke twenty times or more and measure the stroke to the inflection point of pedal force (free play of the clutch pedal).

Specified value: 12 - 20.6 mm

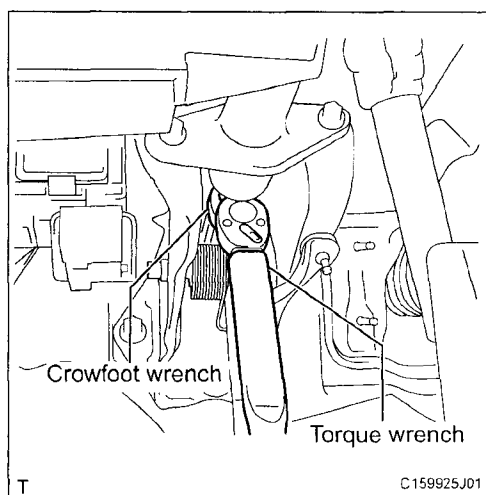
- (4) Check the amount of backlash of the crevice in the clutch master cylinder assembly.

Specified value: 0.5 - 1.9 mm

- (5) If the amount of backlash of the clutch pedal is other than the base value, this means that the clutch pedal hits the return stopper. Rotate the rod of the clutch master cylinder assembly and adjust its length to relieve rod strain and to produce a backlash.

- (6) Check the backlash of the clutch pedal wheel tread.

Specified value: 4.3 - 12mm



- (7) Tighten the lock nut of the clutch master cylinder assembly by using a preset torque wrench with ratchet.

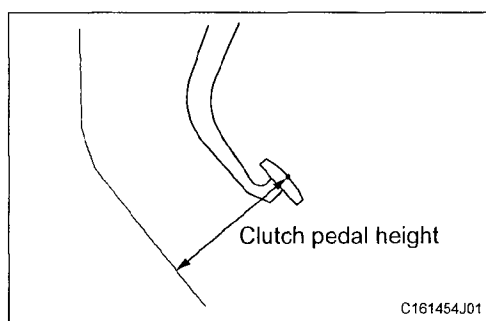
Tool: Preset torque wrench with ratchet {Tonichi(QL25-MH) or equivalent}

Crow foot wrench {KTC (NBNS3-12) or equivalent}

Specified value: $T=20N \cdot m$ {204kgf $\cdot$ cm}

<HINT>

To prevent the clutch pedal wheel tread from interfering with the torque wrench, slightly hold down the pedal and then tighten the lock nut.



- (8) Check the free play amount of the clutch pedal and clutch pedal tread height again and make adjustments.

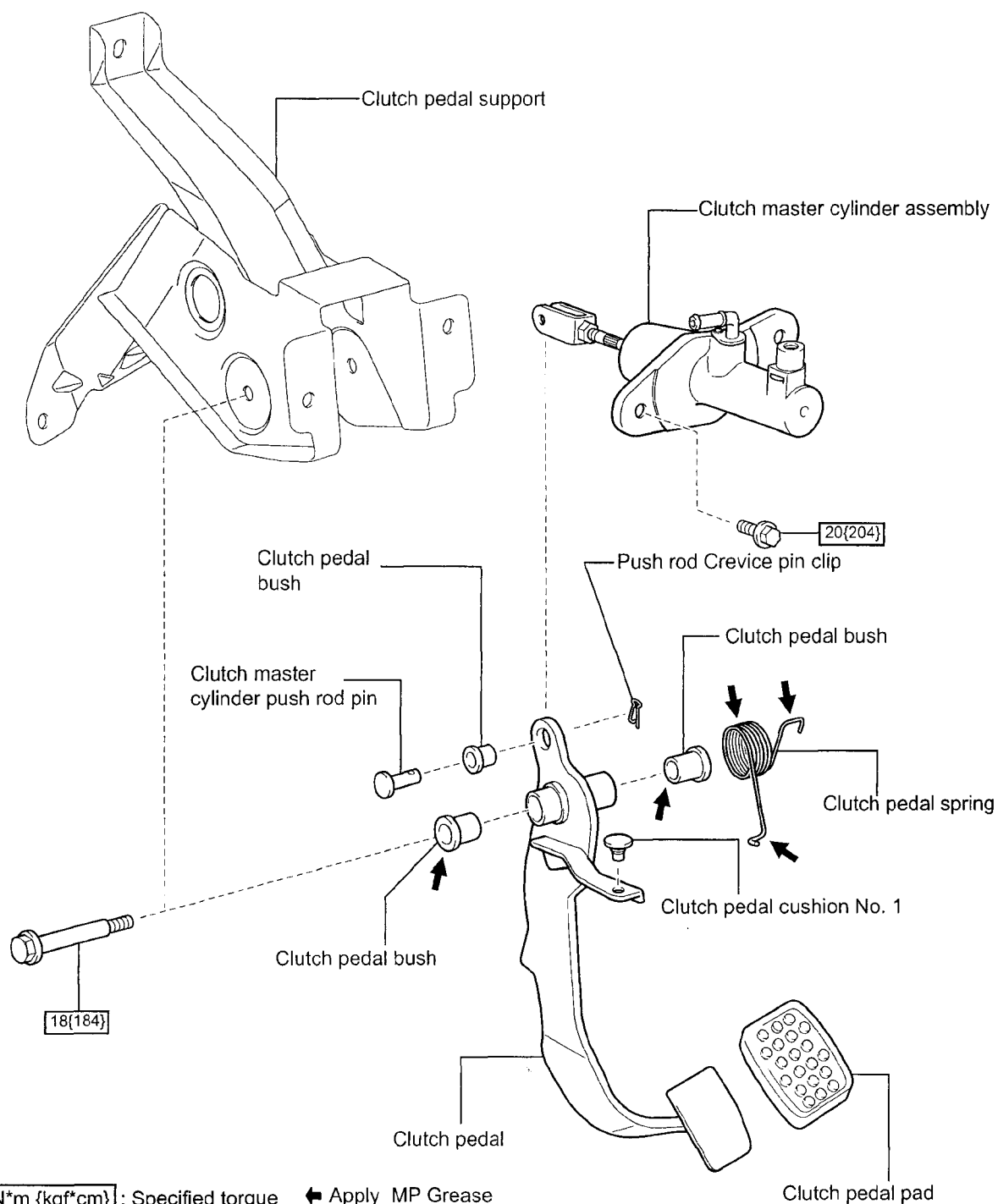
Specified value: 149.1 mm

- (9) Lay the floor carpet.

CLUTCH PEDAL (LHD)

COMPONENTS

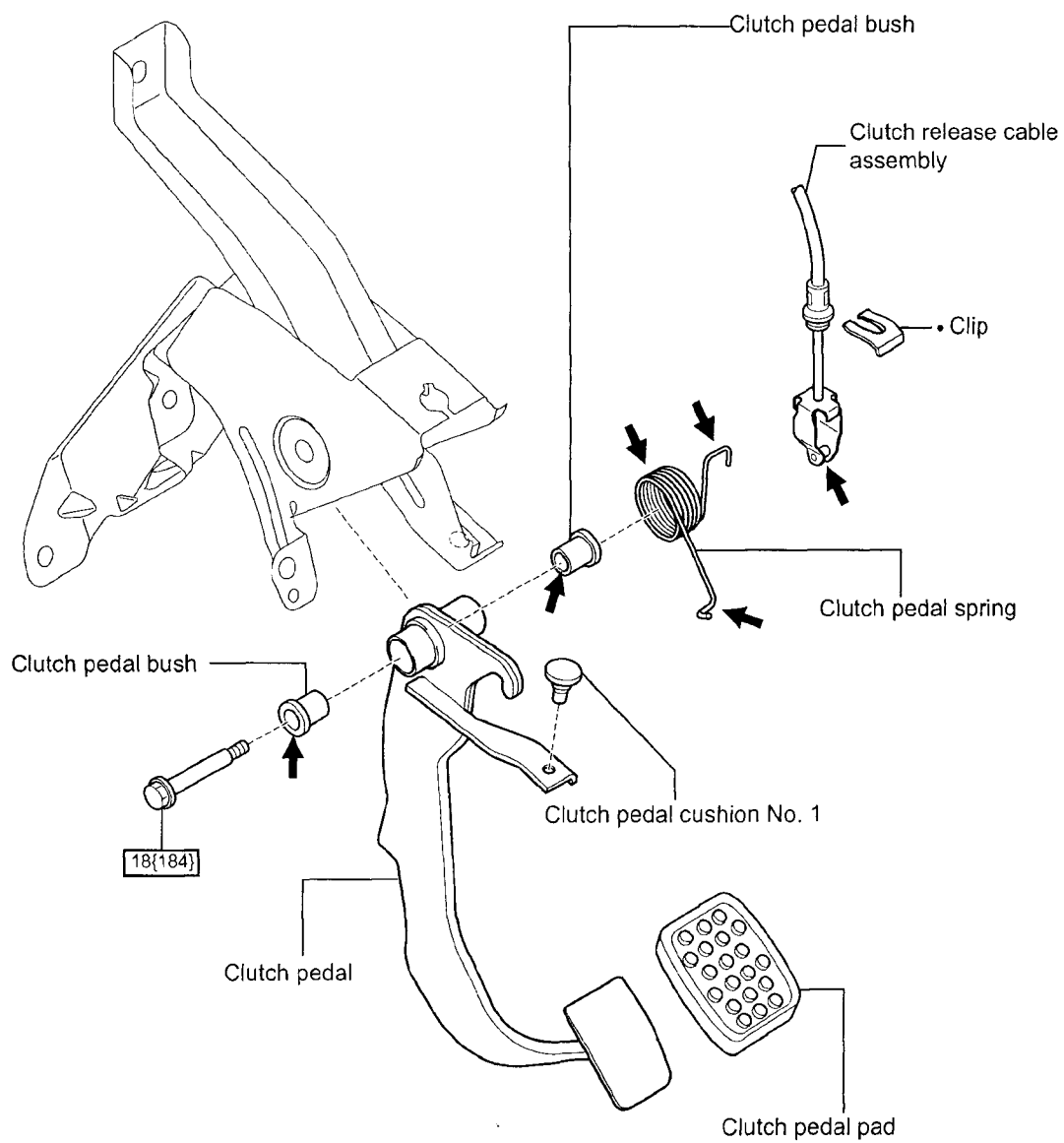
3SZ-VE:



N*m {kgf*cm} : Specified torque ← Apply MP Grease

C159896J01

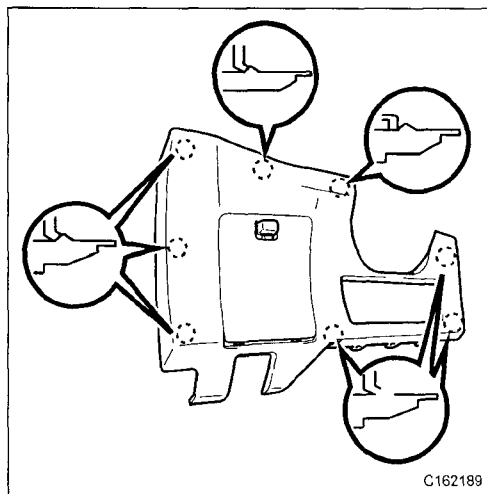
K3-VE:



27

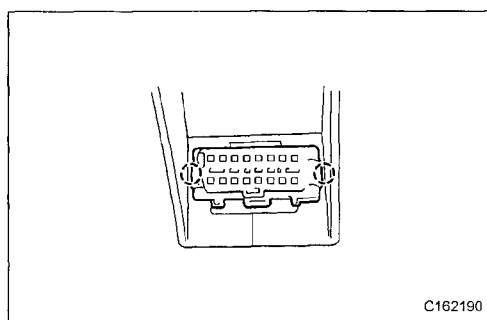
$\boxed{\text{N}\cdot\text{m} \{ \text{kgf}\cdot\text{cm} \}}$: Specified torque ➡ Apply MP Grease • Non-reusable part

REMOVAL



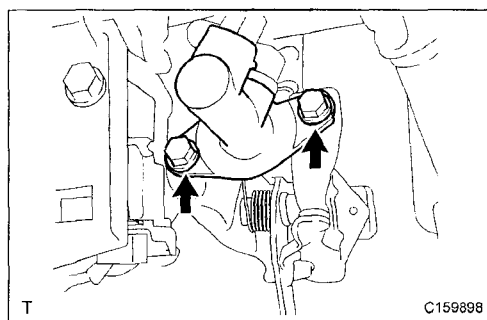
1. Instrument panel finish panel LWR removal

(1) Disengage the fittings of 8 tabs.



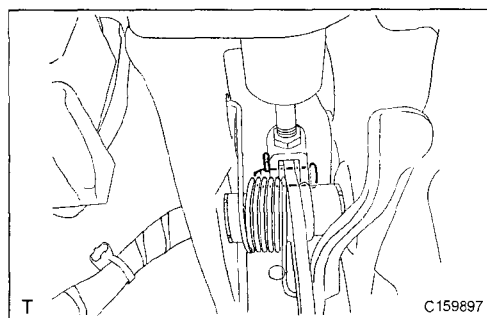
(2) Remove the DLC connector by disengaging the fitting of 2 tabs. Then remove the instrument panel LWR.

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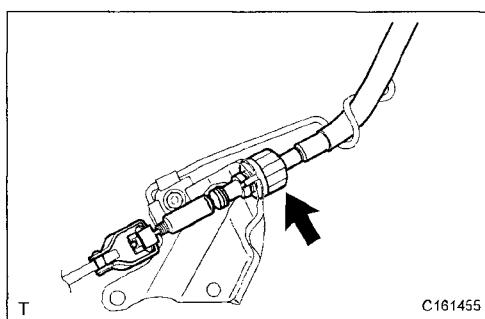
2. Clutch master cylinder assembly disconnection (3SZ-VE)

(1) Remove 2 bolts and remove the clutch master cylinder assembly from the clutch pedal support.

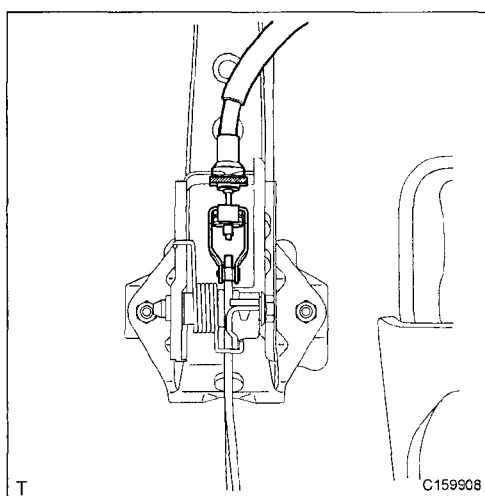


(2) Remove the pushrod crevice pin clip and remove the clutch master cylinder pushrod pin from the clutch pedal.

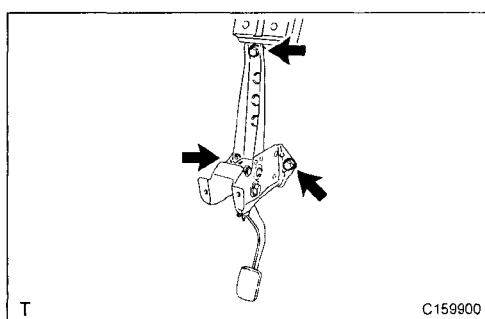
(3) Disconnect the clutch master cylinder assembly from the clutch pedal.



3. Clutch release cable assembly disconnection (K3-VE)
 (1) Loosen the adjusting nut of the clutch release cable assembly.

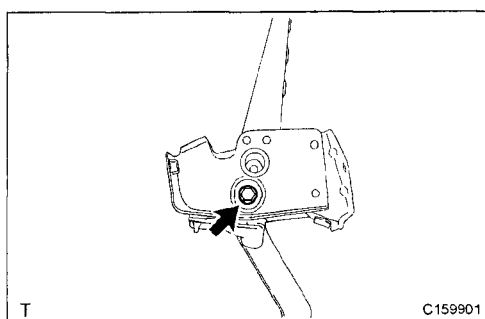


- (2) Disconnect the clutch release cable assembly from the clutch pedal support.
 (3) Remove the clutch release cable assembly from the clutch pedal.

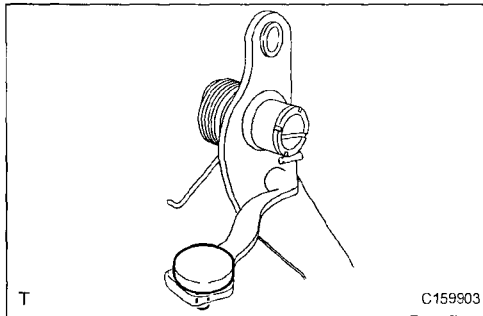


4. Clutch pedal support removal
 (1) Remove the bolt and 2 nuts and remove the clutch pedal support from the vehicle.

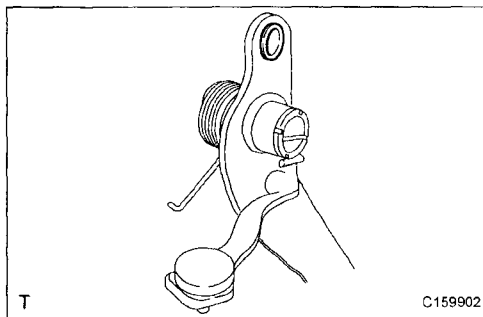
27



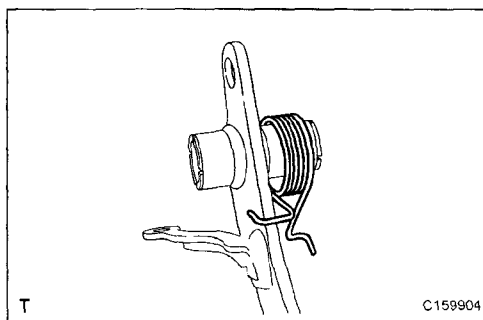
5. Clutch pedal removal
 (1) Remove the bolt and remove the clutch pedal from the clutch pedal support.



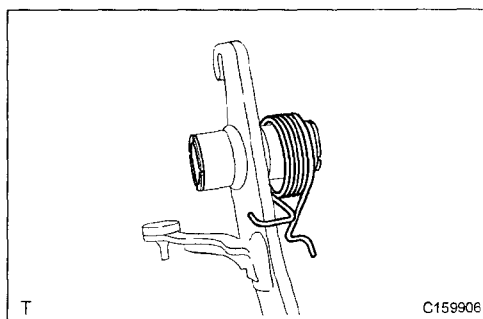
6. Clutch pedal cushion No. 1 removal
(1) Remove the clutch pedal cushion No. 1 from the clutch pedal.



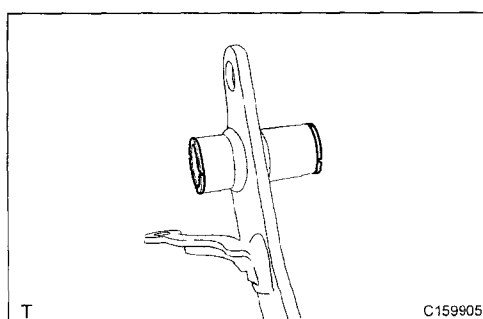
7. Clutch pedal bush removal (3SZ-VE)
(1) Use a socket hexagon wrench (8 mm) and a hammer to remove the clutch pedal bush from the clutch pedal.



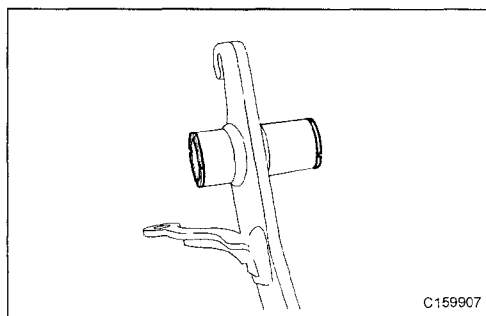
8. Clutch pedal spring removal (3SZ-VE)
(1) Remove the clutch pedal spring from the clutch pedal.



9. Clutch pedal spring removal (K3-VE)
(1) Remove the clutch pedal spring from the clutch pedal.



10. Clutch pedal bush removal (3SZ-VE)
(1) Remove 2 clutch pedal bushes from the clutch pedal.



11. Clutch pedal bush removal (K3-VE)

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

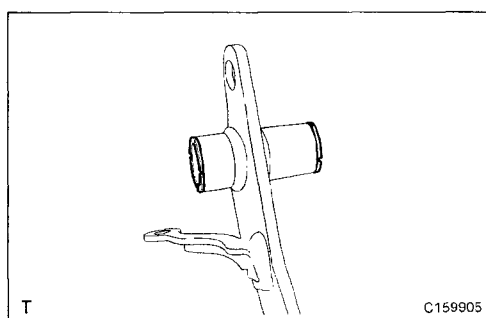
12. Clutch pedal pad removal

- (1) Remove the clutch pedal pad from the clutch pedal.

INSTALLATION

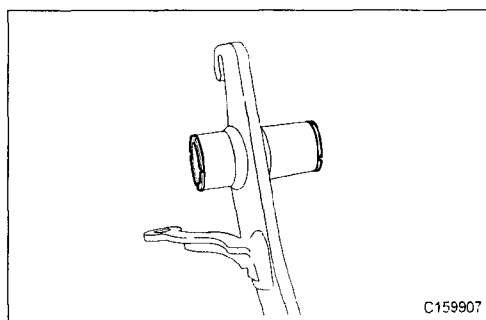
1. Clutch pedal pad installation

- (1) Attach the clutch pedal pad to the clutch pedal.



2. Clutch pedal bush installation (3SZ-VE)

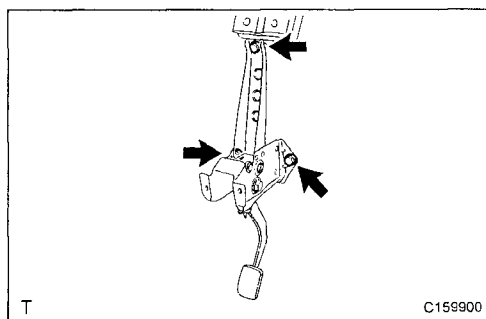
- (1) Coat the inner and outer surfaces of the clutch pedal bushes and the clutch pedal bush insertion hole in the clutch pedal with MP grease.
- (2) Attach 2 clutch pedal bushes to the clutch pedal.



3. Clutch pedal bush installation (K3-VE)

- (1) Coat the inner and outer surfaces of the clutch pedal bushes and the clutch pedal bush insertion hole in the clutch pedal with MP grease.
- (2) Attach 2 clutch pedal bushes to the clutch pedal.

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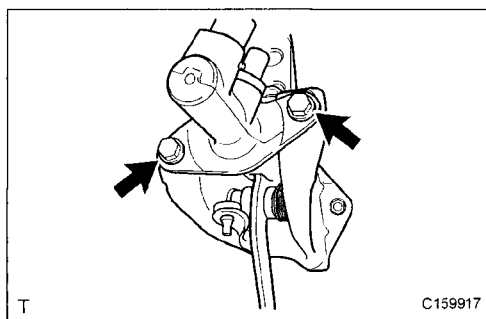


4. Clutch pedal support installation

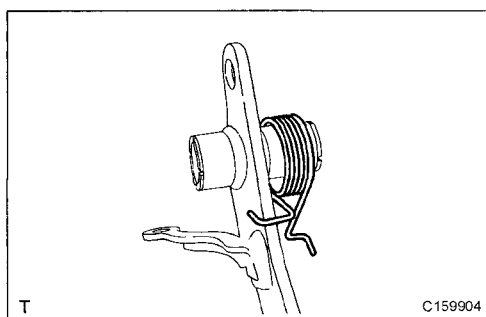
- (1) Use a bolt and 2 nuts to attach the clutch pedal support to the vehicle.

Specified value: $T=18\text{N}\cdot\text{m}$ {184kgf*cm} (Bolt)

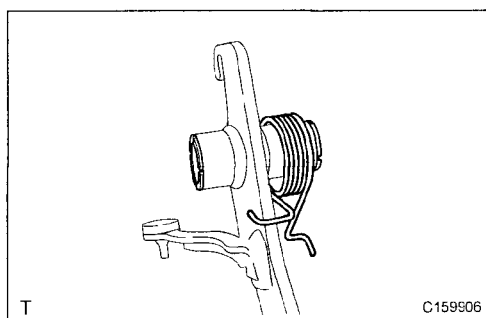
$T=18\text{N}\cdot\text{m}$ {184kgf*cm} (Nut)



5. Temporary fixing of the clutch master cylinder assembly
- (1) Use 2 bolts to attach the clutch master cylinder assembly to the clutch pedal support.
- Specified value: $T=20N \cdot m$ {204kgf $\cdot$ cm}

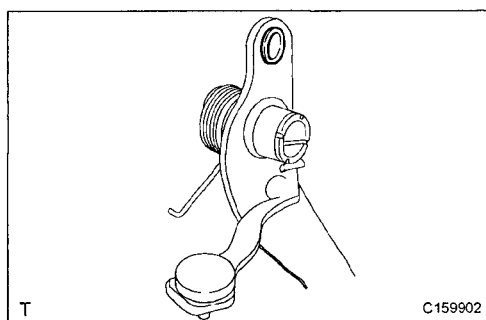


6. Clutch pedal spring installation (3SZ-VE)
- (1) Coat the inner surface of the clutch pedal spring and the contact surfaces of the clutch pedal and clutch pedal spring with MP grease. Attach the clutch pedal spring to the clutch pedal.

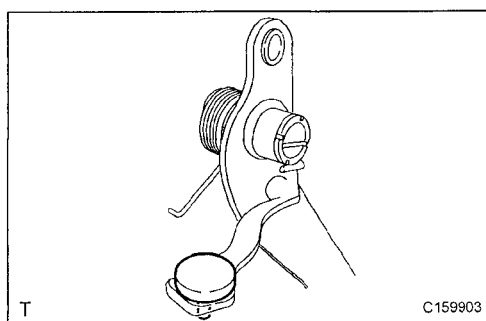


7. Clutch pedal spring installation (K3-VE)
- (1) Coat the inner surface of the clutch pedal spring and the contact surfaces of the clutch pedal and clutch pedal spring with MP grease. Attach the clutch pedal spring to the clutch pedal.

27



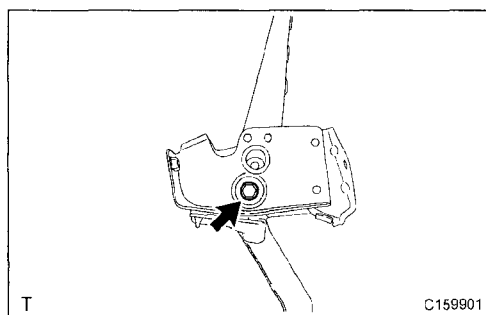
8. Clutch pedal bush installation (3SZ-VE)
- (1) Attach the clutch pedal bush to the clutch pedal.



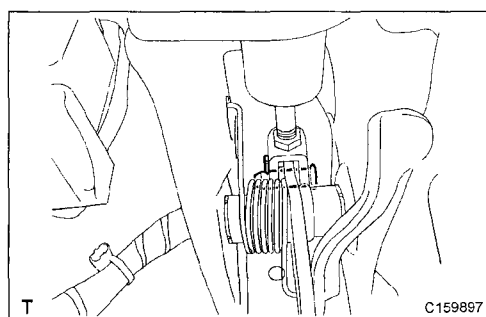
9. Clutch pedal cushion No. 1 installation
- (1) Attach the clutch pedal cushion No. 1 to the clutch pedal.

10. Clutch pedal installation

- (1) Coat the entire circumference of the bolt with MP grease.

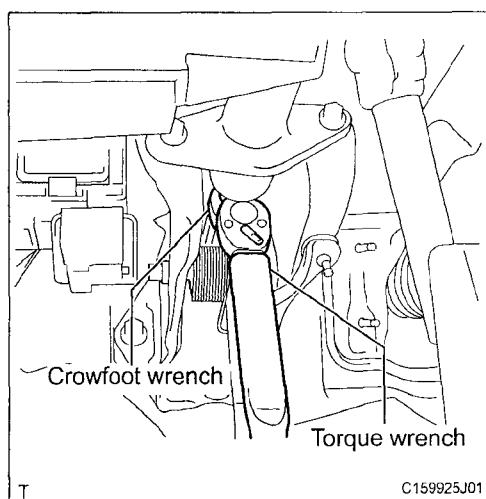


- (2) Use a bolt to attach the clutch pedal to the clutch pedal support.
Specified value: $T=18N \cdot m$ {184kgf*cm}



11. Clutch master cylinder assembly installation (3SZ-VE)

- (1) Coat the clutch master cylinder pushrod pin, the crevice holes in the clutch master cylinder assembly, and the crevice hole in the clutch pedal with MP grease. Rotate the rod of the clutch master cylinder assembly and use the clutch master cylinder pushrod pin to attach the crevice in the clutch master cylinder assembly to the clutch pedal.
- (2) Attach the pushrod crevice pin clip to the clutch master cylinder pushrod pin.



- (3) Tighten the lock nut of the rod of the clutch master cylinder assembly by using a preset torque wrench with ratchet and crowfoot wrench.

Tool: Preset torque wrench with ratchet {Tonichi(QL25-MH) or equivalent}

Crow foot wrench {KTC(NBNS3-12) or equivalent}

Specified value: $T=20N \cdot m$ {204kgf*cm}

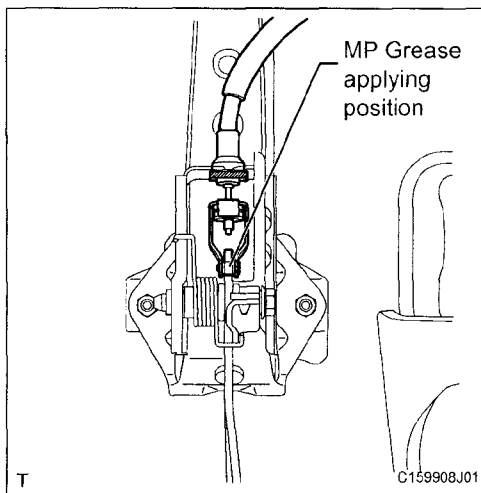
<HINT>

- > To prevent the clutch pedal wheel tread from interfering with the torque wrench, slightly hold down the pedal and then tighten the lock nut.
- > Make sure that the clutch pedal operates smoothly to its full stroke without producing abnormal sound and returns to the initial position smoothly.
- > Make sure that the rod of the clutch master cylinder assembly has a backlash (free play) when the clutch pedal is at the initial position.

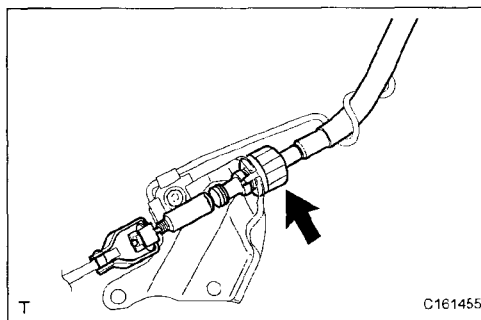
27

12. Clutch release cable assembly installation (K3-VE)

- (1) Attach the clutch release cable assembly to the clutch pedal.

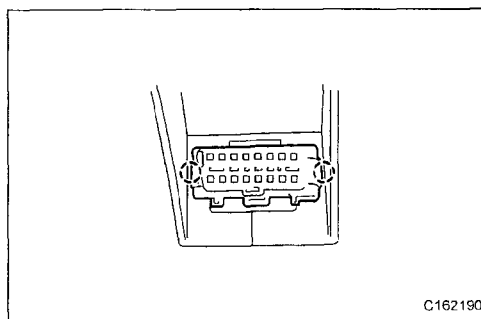


- (2) Attach the clutch release cable assembly to the clutch pedal support.



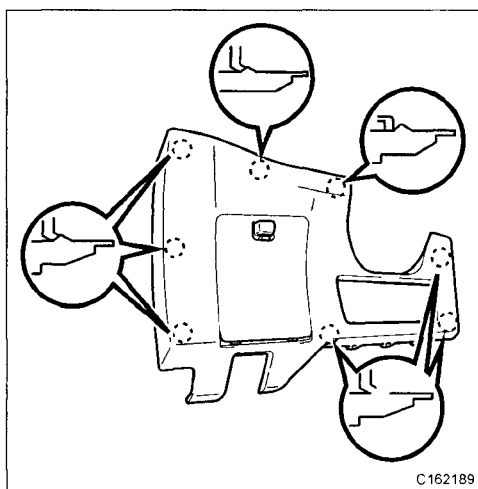
- (3) Tighten the adjusting nut of the clutch release cable assembly.

13. Clutch pedal check · adjustment
(See page 27-20)



14. Instrument panel finish panel LWR installation

- (1) Engage the fitting of 2 tabs and attach the DLC connector.

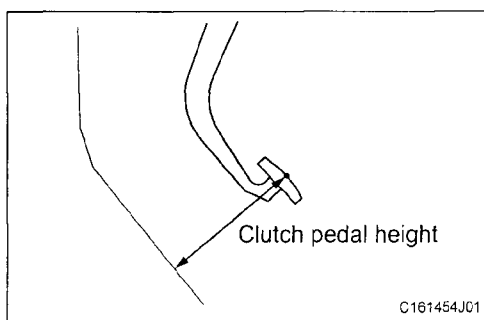


- (2) Engage the fittings of 8 tabs and attach the instrument panel finish LWR.

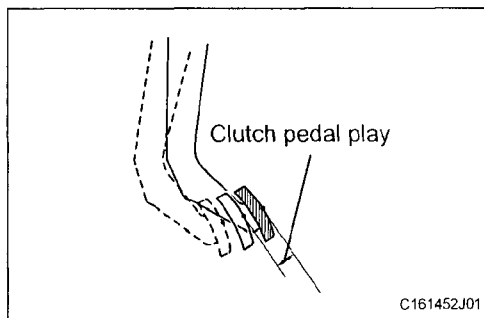
ADJUSTMENT

1. Clutch pedal check · adjustment (3SZ-VE)

- (1) Roll up the floor carpet under the clutch pedal.



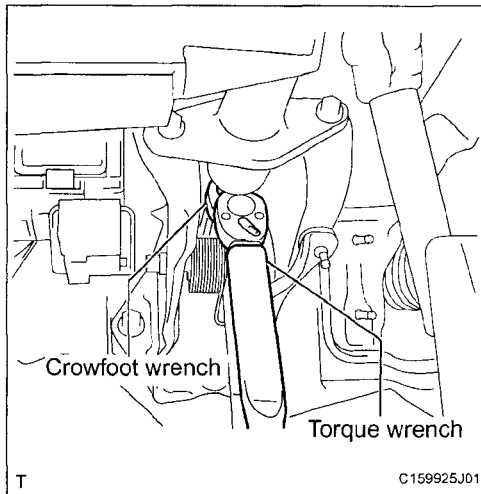
- (2) Measure clutch pedal height using a vernier caliper.
Specified value: 149.1 mm



- (3) Operate the clutch pedal to its full stroke twenty times or more and measure the stroke to the inflection point of pedal force (free play of the clutch pedal).
Specified value: 12 - 20.6 mm

27

- (4) Check the amount of backlash of the crevice in the clutch master cylinder assembly.
Specified value: 0.5-1.9 mm
- (5) If the amount of backlash of the clutch pedal is other than the base value, this means that the clutch pedal hits the return stopper. Rotate the rod of the clutch master cylinder assembly and adjust its length to relieve rod strain and to produce a backlash.
- (6) Check the backlash of the clutch pedal wheel tread.
Specified value: 4.3-12 mm



- (7) Tighten the lock nut of the rod of the clutch master cylinder assembly by using a preset torque wrench with ratchet and crowfoot wrench.

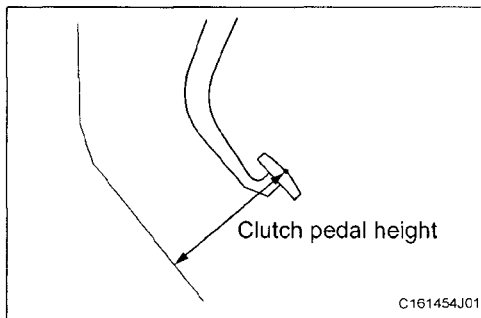
Tool: Preset torque wrench with ratchet {Tonichi(QL25-MH) or equivalent}

Crow foot wrench {KTC(NBNS3-12) or equivalent}

Specified value: $T=20N \cdot m$ {204kgf $\cdot$ cm}

<HINT>

To prevent the clutch pedal wheel tread from interfering with the torque wrench, slightly hold down the pedal and then tighten the lock nut.



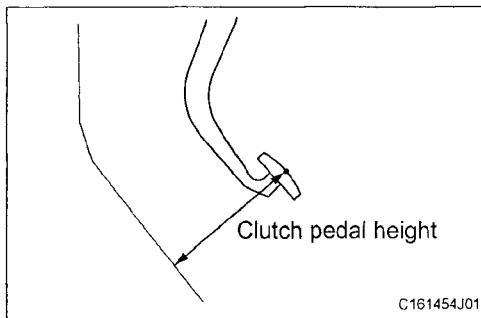
- (8) Check the free play amount of the clutch pedal and clutch pedal tread height.

Specified value: 149.1 mm

- (9) Lay the floor carpet.

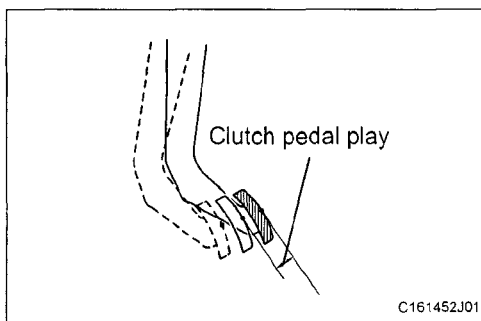
2. Clutch pedal check · adjustment (K3-VE)

- (1) Roll up the floor carpet under the clutch pedal.



- (2) Measure clutch pedal height using a vernier caliper.

Specified value: 149.1 mm

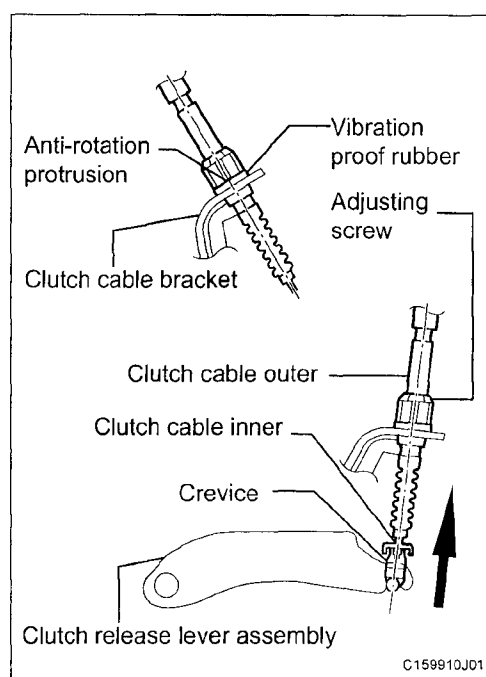


- (3) Operate the clutch pedal to its full stroke twenty times or more and measure the stroke to the inflection point of pedal force (free play of the clutch pedal).

Specified value: 10 - 25 mm

- (4) If free play of the clutch pedal is other than the base value, adjust the free play of the clutch pedal.

- (5) Attach the crevice to the clutch release cable assembly and hang the crevice on the clutch release lever.



- (6) Move the clutch release lever with your left hand and stop the lever at the position where the clutch release bearing lightly hits the diaphragm spring on the clutch cover.

<HINT>

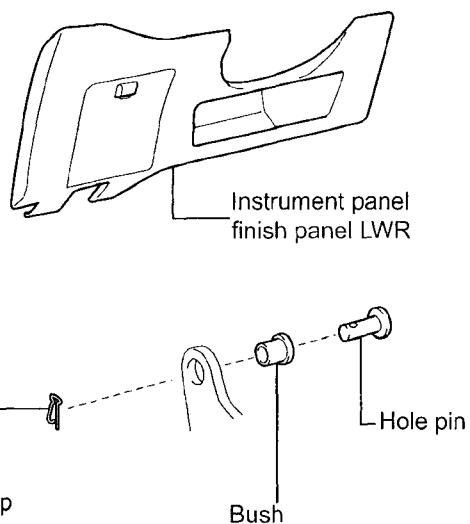
The release lever should be moved in the direction of A shown in the diagram.

- (7) Raise the clutch cable outer with your right hand, hold the cable at the position where the inner cable is not loose any more and then release your left hand.
- (8) Screw in the adjusting screw with your left hand until the screw hits the end point of the anti-rotation protrusion made of vibration proof rubber. If the groove in the adjusting screw is not aligned with the anti-rotation protrusion, loosen the adjusting screw and align them.
- (9) When the groove in the adjusting screw is aligned with the anti-rotation protrusion, release your hands.
- (10) Check the free play amount of the clutch pedal and clutch pedal tread hight, and make adjusts.
- (11) Lay the floor carpet.

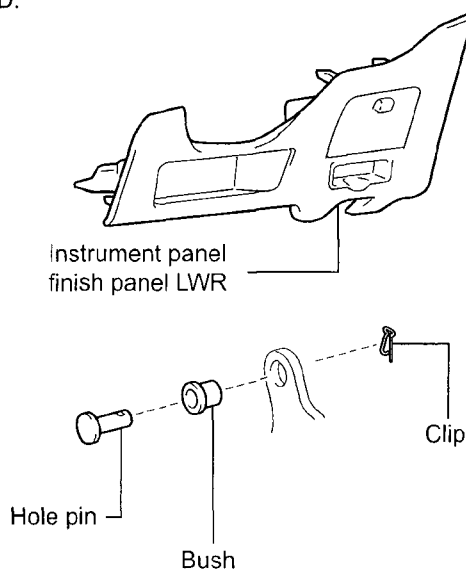
CLUTCH MASTER CYLINDER ASSEMBLY (3SZ-VE)

COMPONENTS

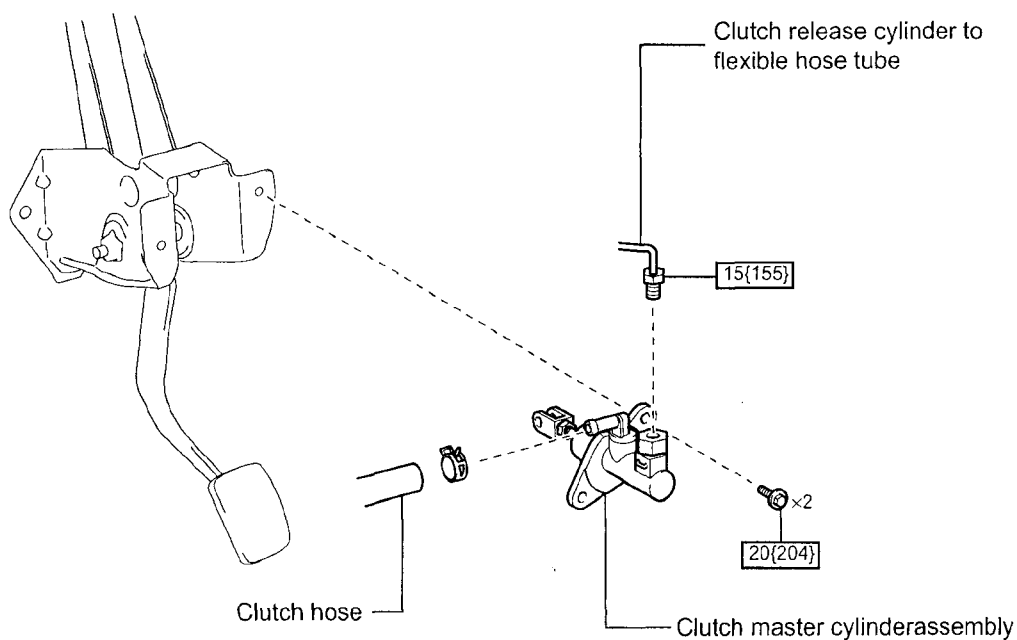
LHD:



RHD:



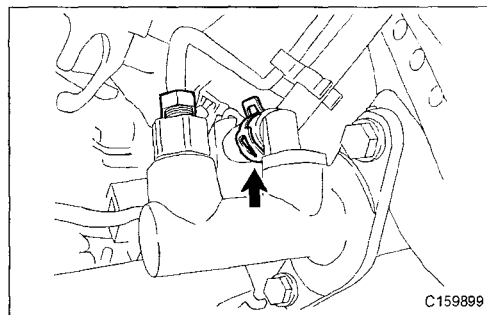
27



[N*m {kgf*cm}] : Specified torque

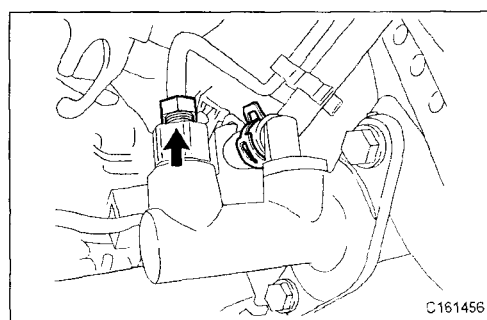
REMOVAL

1. Brake fluid drainage
2. Instrument panel finish panel LWR removal (See page 78-22)



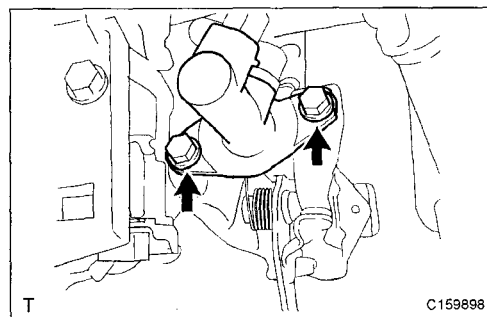
3. Clutch master cylinder assembly removal

- (1) Remove the clamp and disconnect the clutch hose from the clutch master cylinder assembly.

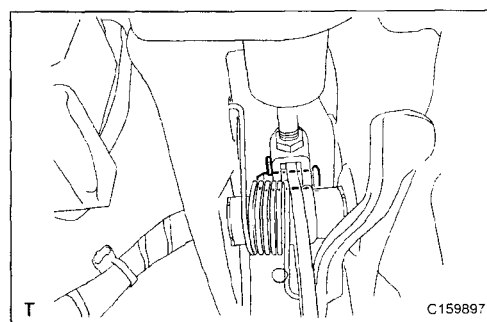


- (2) Use a crowfoot wrench (10 mm) to remove the clutch release cylinder to flexible hose tube from the clutch master cylinder assembly.

Tool: Crowfoot wrench {KTC(NBNS3-10) or equivalent}

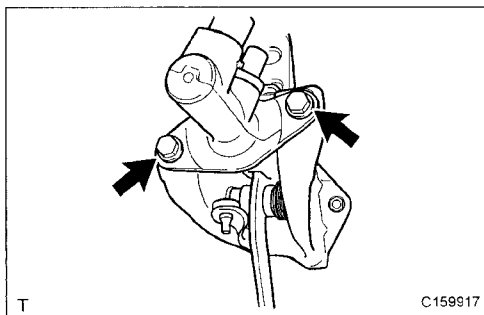


- (3) Remove 2 bolts and remove the clutch master cylinder assembly from the clutch pedal support.



- (4) Remove the pushrod crevice pin clip and remove the clutch master cylinder pushrod pin from the clutch pedal.
- (5) Remove the clutch master cylinder assembly from the clutch pedal.

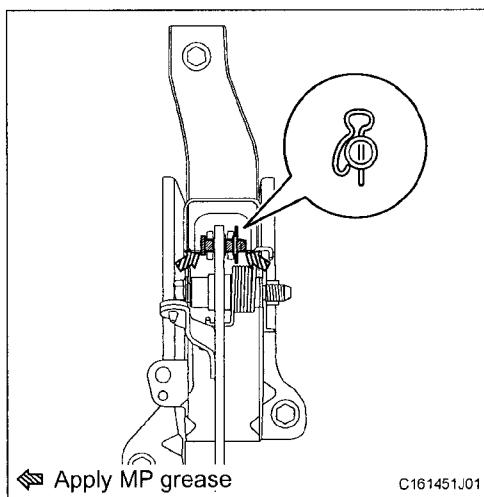
INSTALLATION



1. Clutch master cylinder assembly installation

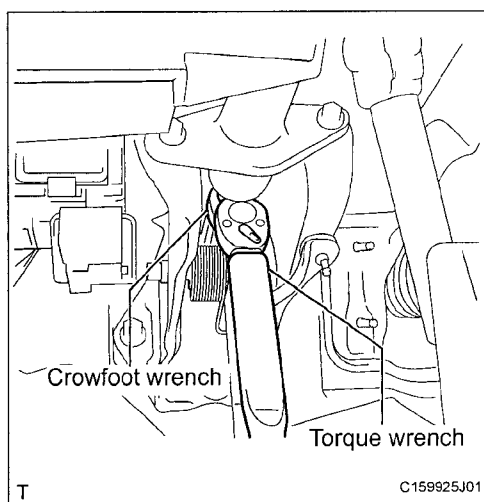
- (1) Use 2 bolts to attach the clutch master cylinder assembly to the clutch pedal support.

Specified value: $T=20N \cdot m$ {204kgf $\cdot$ cm}



- (2) Coat the clutch master cylinder pushrod pin, the crevice holes in the clutch master cylinder assembly, and the crevice hole in the clutch pedal with MP grease. Rotate the rod of the clutch master cylinder assembly and use the clutch master cylinder pushrod pin to attach the crevice in the clutch master cylinder assembly to the clutch pedal.

- (3) Attach the pushrod crevice pin clip to the clutch master cylinder pushrod pin.



- (4) Tighten the lock nut of the rod of the clutch master cylinder assembly by using a preset torque wrench with ratchet and crowfoot wrench.

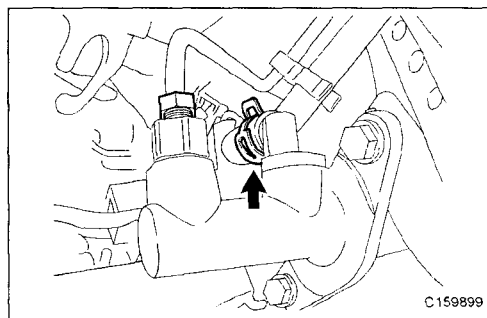
Tool: Preset torque wrench with ratchet {Tonichi(QL25-MH) or equivalent}

Crow foot wrench {KTC (NBNS3-12) or equivalent}

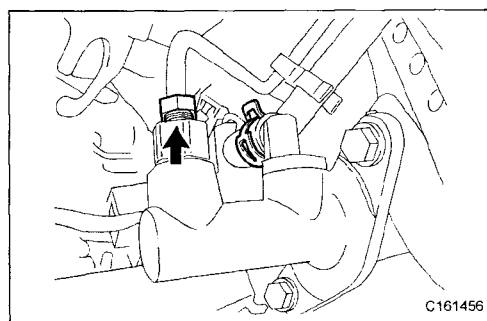
Specified value: $T=20N \cdot m$ {204kgf $\cdot$ cm}

<HINT>

- > To prevent the clutch pedal wheel tread from interfering with the torque wrench, slightly hold down the pedal and then tighten the lock nut.
- > Make sure that the clutch pedal operates smoothly to its full stroke without producing abnormal sound and returns to the initial position smoothly.
- > Make sure that the rod of the clutch master cylinder assembly has a backlash (free play) when the clutch pedal is at the initial position.



- (5) Use a clamp to attach the clutch hose to the clutch master cylinder assembly.



- (6) Use a preset torque wrench with ratchet to attach the clutch release cylinder to flexible hose tube to the clutch master cylinder assembly.

Tool: Preset torque wrench with ratchet {Tonichi(QL25-MH) or equivalent}

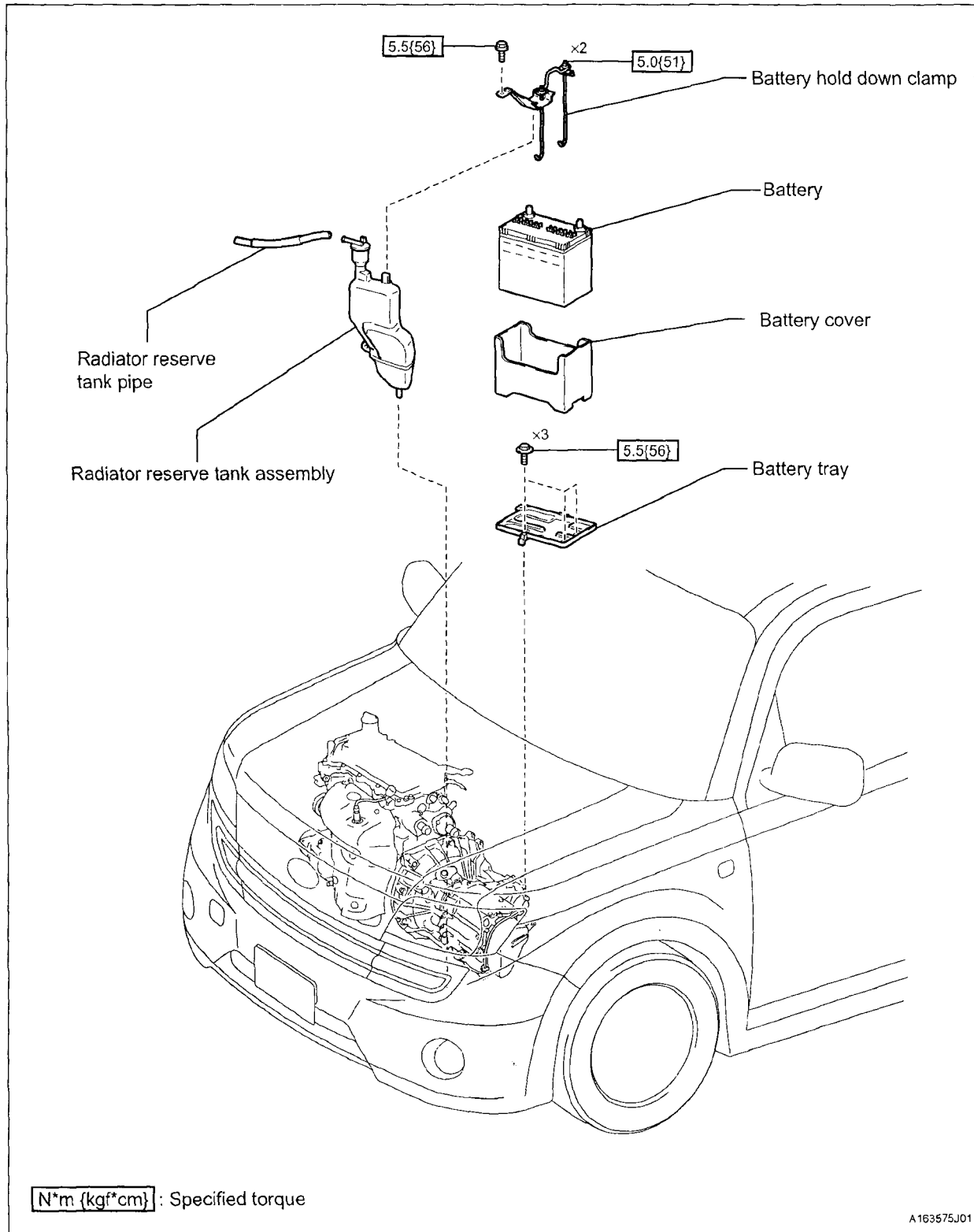
Crowfoot wrench {KTC(NBNS3-12) or equivalent}

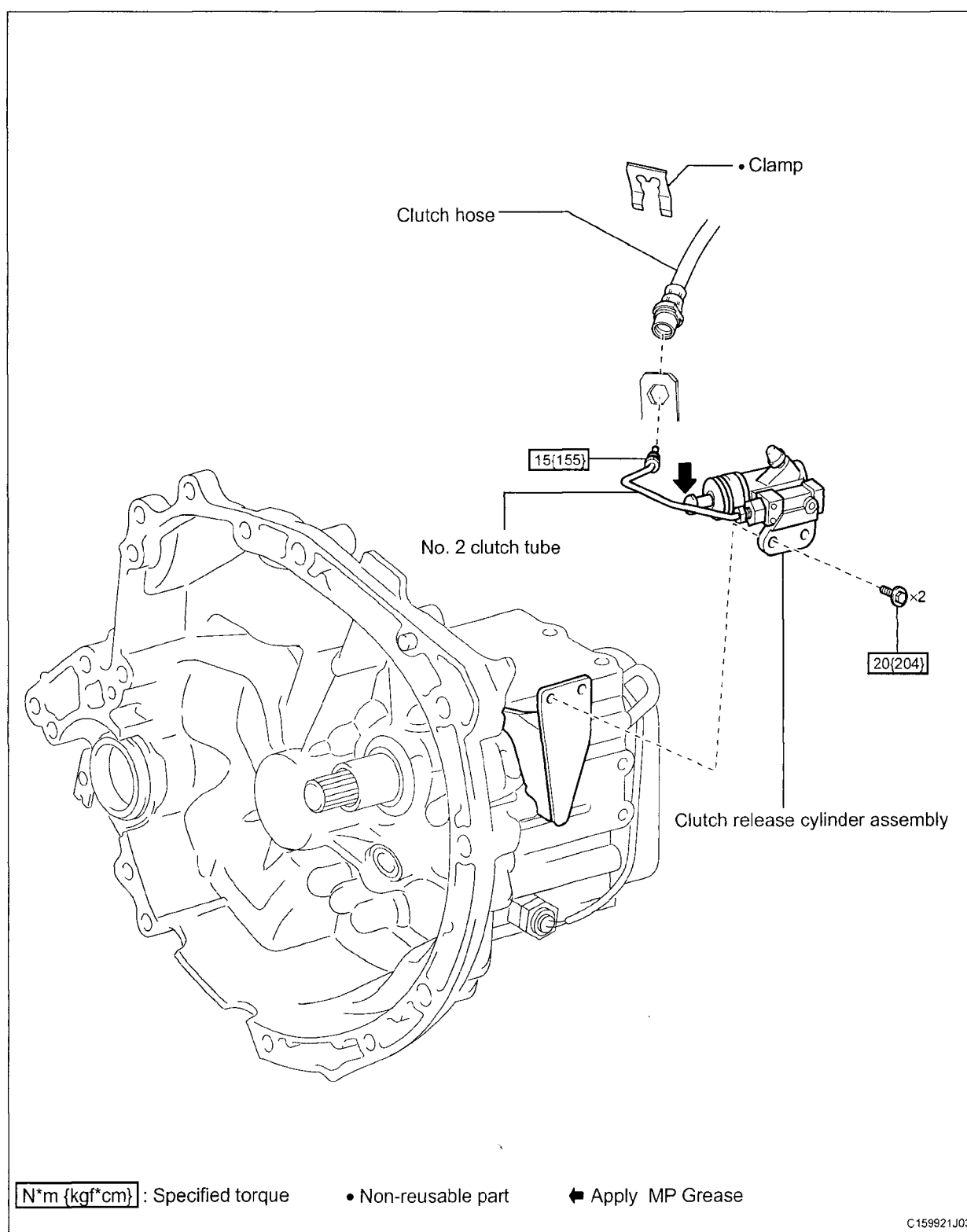
Specified value: $T=15\text{N}\cdot\text{m}$ {155kgf*cm}

2. Clutch pedal check · adjustment (See page 27-20)
3. Instrument panel finish panel LWR installation (See page 78-31)
4. Brake fluid replenishment (See page 45-4)
5. Clutch pipeline air bleeding (See page 27-3)
6. Clutch fluid leakage check
7. Brake fluid amount check

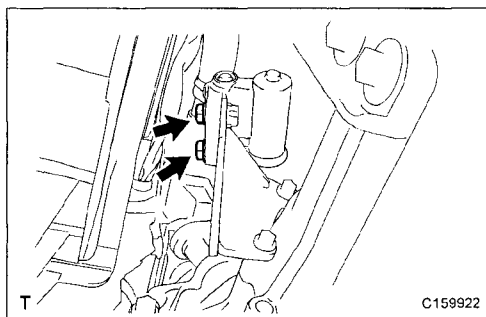
CLUTCH RELEASE CYLINDER ASSEMBLY (3SZ-VE)

COMPONENTS



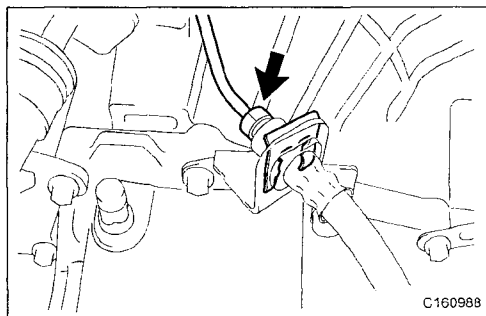


4. Radiator reserve tank assembly removal (See page 07-48)
5. Battery cover removal
6. Battery removal
7. Battery tray removal (See page 07-48)



8. Clutch release cylinder assembly removal

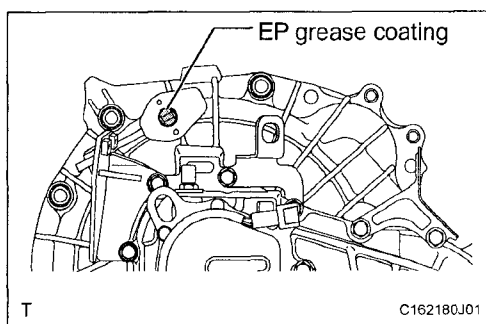
- (1) Remove 2 bolts and disconnect the clutch release cylinder assembly from the release cylinder support.



- (2) Use a crowfoot wrench (10 mm) to loosen the flare nut of the No.2 clutch tube and remove the clutch release cylinder assembly with the No.2 clutch tube

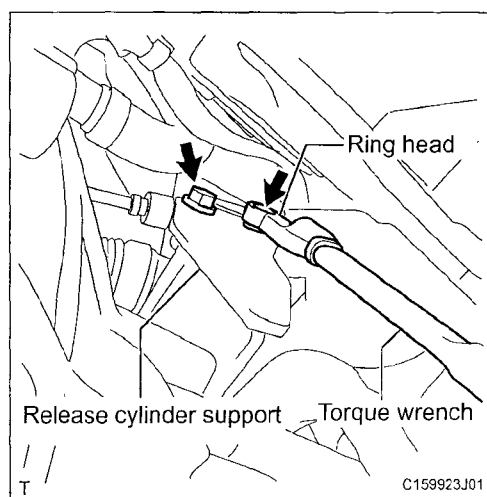
Tool: Crowfoot wrench {KTC(NBNS3-12) or equivalent}

INSTALLATION



1. Clutch release cylinder assembly installation

- (1) Coat the contacting surface of cylinder pushrod and the circumference of the pushrod top end with EP grease.

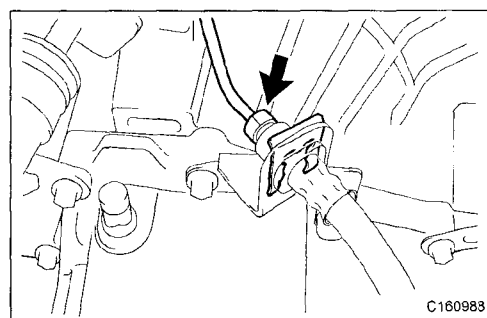


- (2) Use a crowfoot wrench (10 mm) to attach the clutch release cylinder to flexible hose tube to the clutch hose.

Specified value: $T=20N \cdot m$ {204kgf*cm}

Tool: Flex head preset torque wrench {Tonichi(CL25N×10D-MH) or equivalent}

Ring head {Tonichi(RH10D×12) or equivalent}



- (3) Use a crowfoot wrench (10 mm) to attach the clutch release cylinder to flexible hose tube to the clutch hose.

Specified value: $T=15N \cdot m$ {153kgf*cm}

Tool: Crowfoot wrench {KTC(NBNS3-10) or equivalent}

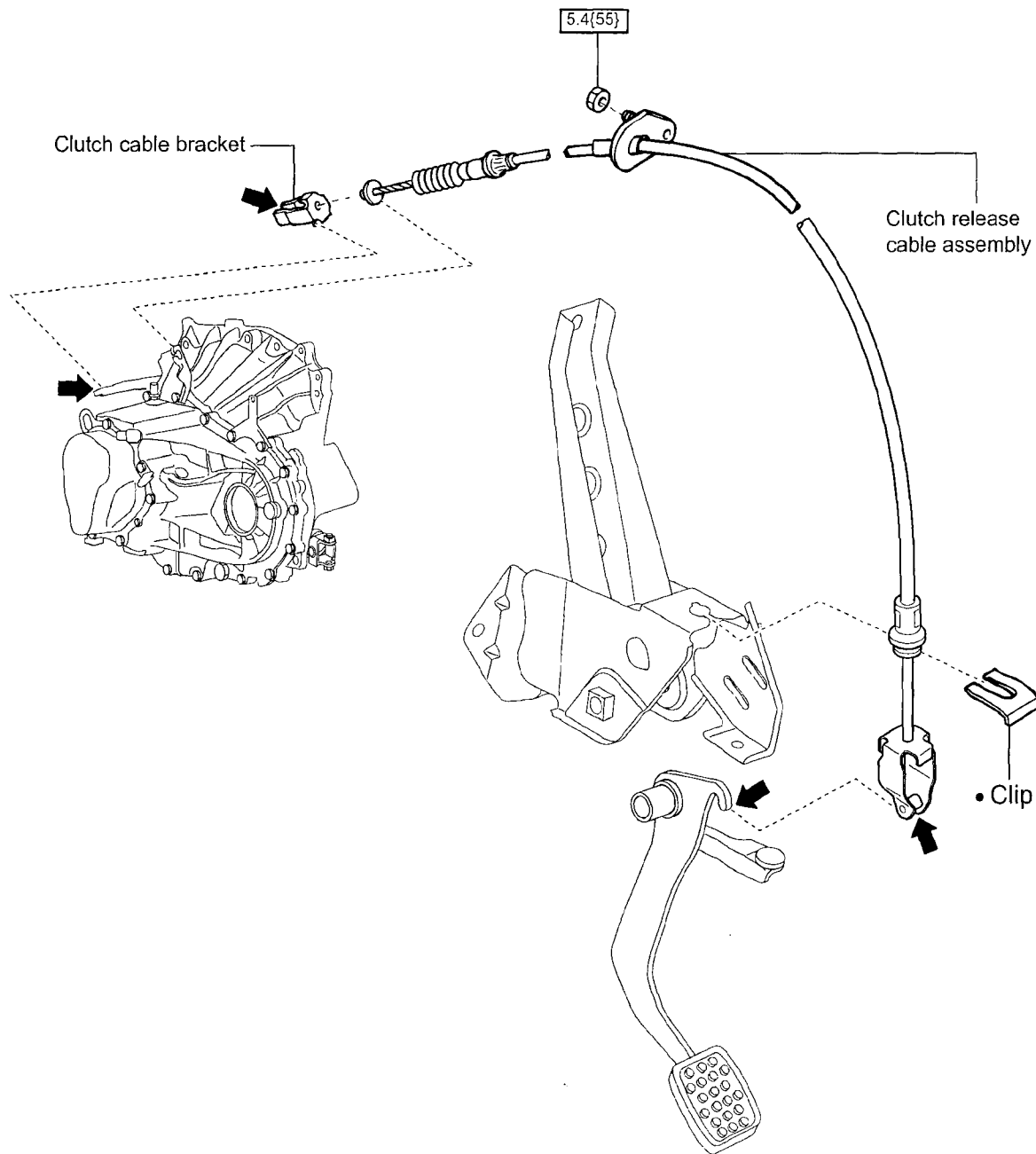
<CAUTION>

- > In attaching the flexible hose, do not twist it 90° and more.
- > Keep the flexible hose free from mineral grease(grease, mission oil etc.)
- > In case the flexible hose is damaged, replace it.

2. Clutch pedal check · adjustment (See page 27-20)
3. Instrument panel finish LWR installation (See page 78-37)
4. Battery tray installation (See page 07-90)
5. Battery installation
6. Battery cover installation
7. Radiator reserve tank assembly installation (See page 07-90)
8. Battery hold down clamp installation (See page 07-90)
9. Brake fluid replenishment
10. Clutch pipeline air bleeding (See page 27-3)
11. Clutch fluid leakage check
12. Brake fluid amount check
13. Battery minus terminal connection
Specified value: $T=6.4N \cdot m$ {65kgf*cm}

CLUTCH RELEASE CABLE ASSEMBLY (K3-VE)

COMPONENTS



27

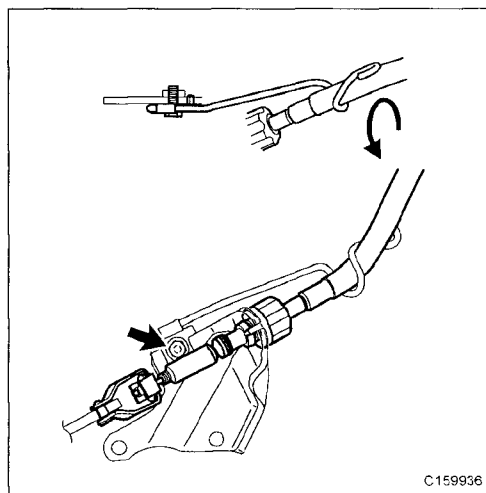
N*m {kgf*cm} : Specified torque

• Non-reusable part

➡ Apply MP Grease

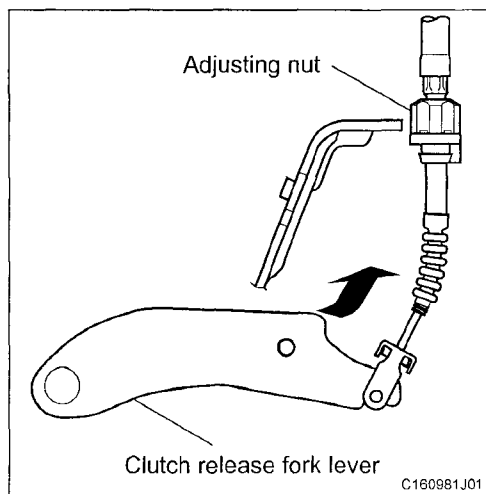
C160985J03

REMOVAL

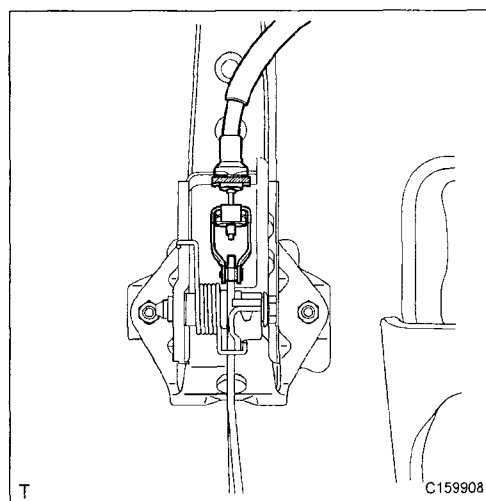


1. Clutch cable clamp removal
 - (1) Disconnect the clutch release cable assembly from the clutch cable clamp.
 - (2) Remove the bolt and then the clutch cable clamp.

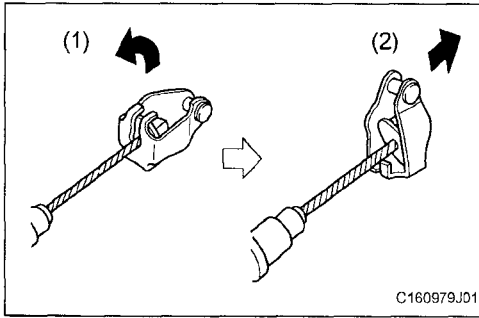
2. Instrument panel finish panel LWR removal (See page 27-13)



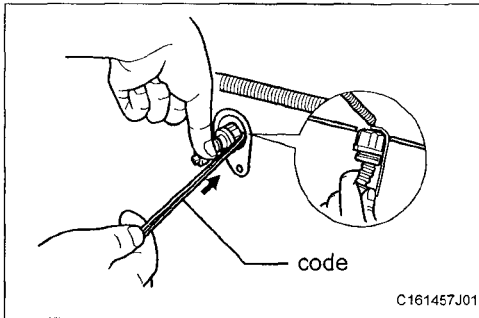
3. Clutch release cable assembly disconnection
 - (1) Loosen the adjusting nut of the clutch release cable assembly.
 - (2) Raising the clutch release fork lever with your hand, remove the clutch cable bracket from the clutch release fork lever.



- (3) Remove the clip and disconnect the clutch release cable assembly from the clutch pedal support.
- (4) Remove the clutch release cable assembly from the clutch pedal.



- (5) Align the end portion of the clutch release cable assembly with the notch portion of the clutch cable bracket and rotate the bracket by 90° to remove the clutch cable bracket.



- (6) Loosen the adjusting nut of the clutch release cable assembly to the limit and attach the drawing cord to the end portion of the cable.
(7) Remove the nut. Pulling the clutch release cable assembly with the cord, push the clutch release cable assembly to the vehicle room side to remove the assembly.

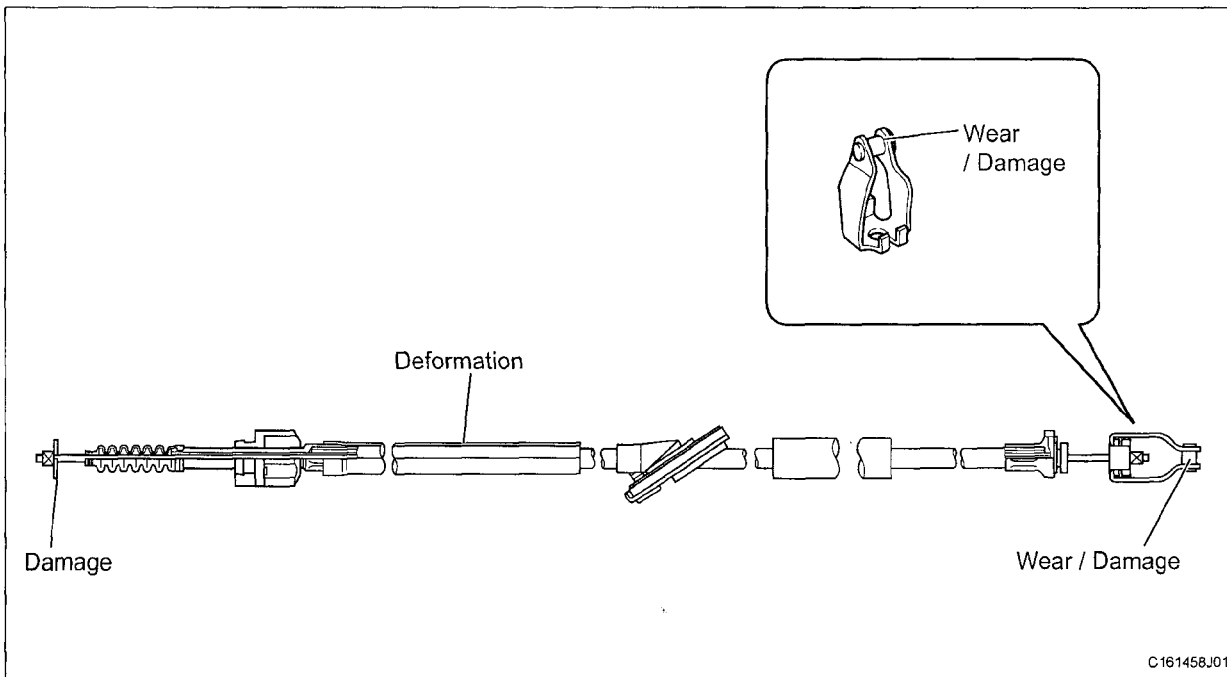
<CAUTION>

- > Use the cord to draw the cable of the clutch release cable assembly between the engine room ↔ the vehicle interior.
- > The cord should be approx. two meters. The cord drawn from the engine compartment side to the vehicle interior should be left as it is. The cord will be used again to draw the cable.

INSPECTION

1. Clutch release cable assembly check

- (1) Check the locations shown in the diagram. If any part has a failure, replace it.



- (a) Push and pull the inner cable of the clutch release cable assembly and make sure that the cable moves smoothly.
(b) Make sure that every part of the clutch release cable assembly has no cut, deformation, wear, and crazing.
(c) Make sure that the clutch release cable bracket No. 1 has no damage and wear.

INSTALLATION

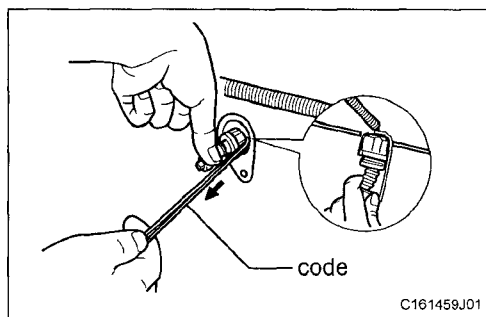
1. Clutch release cable assembly installation

<CAUTION>

Extreme caution must be taken to prevent the inner cable from bending.

(1) Fully loosen the free-play adjusting nut of the clutch release cable assembly.

(2) Attach the drawing cord that was used for removal to the end portion of the clutch release cable assembly.



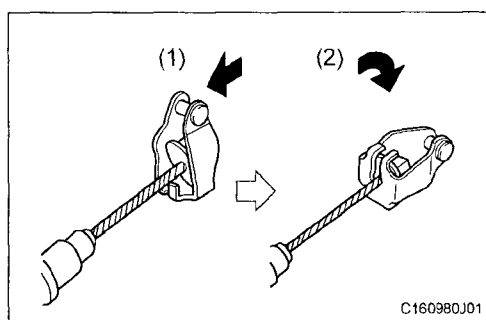
(3) While pulling the cord from the engine compartment side, push the clutch release cable out of the vehicle interior to take the end portion of the cord to the engine compartment side.

<CAUTION>

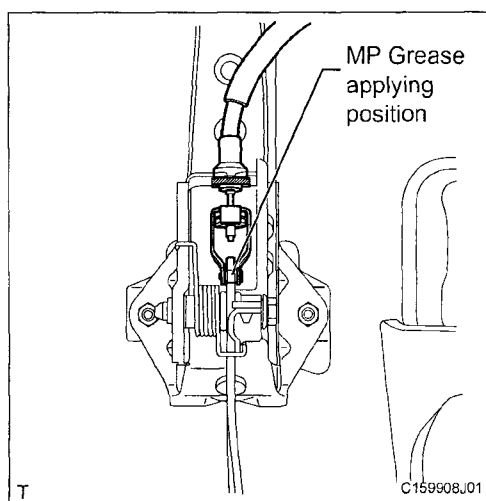
Do not pull the cord too hard. Otherwise the inner cable may bend.

(4) Fix the clutch release cable assembly to the grommet dash panel hole and tighten the bolt.

Specified value: $T=5.4N \cdot m$ {55kgf*cm}



(5) Align the notch portion of the clutch cable bracket with the clutch release cable assembly. Connect the clutch release cable assembly to the clutch cable bracket and tilt the cable at a 90° angle.

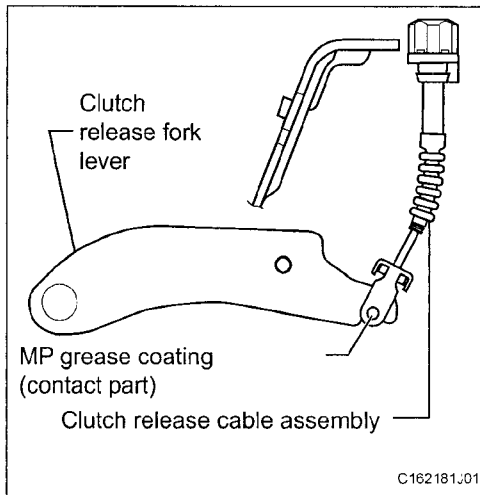


(6) Coat the connecting part of the clutch release cable assembly and the clutch pedal with MP grease.

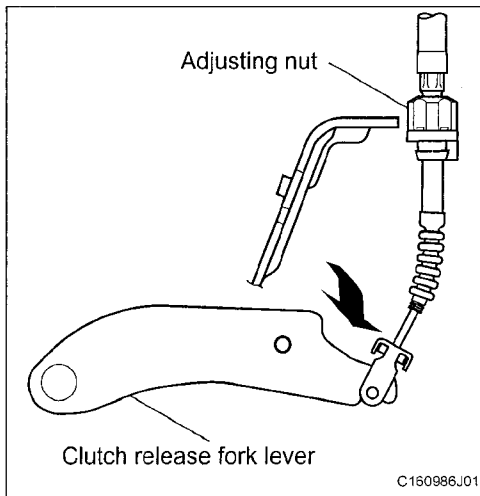
27

(7) Attach the clutch release cable assembly to the clutch pedal.

(8) Use a new clip to attach the clutch release cable assembly to the clutch pedal support.



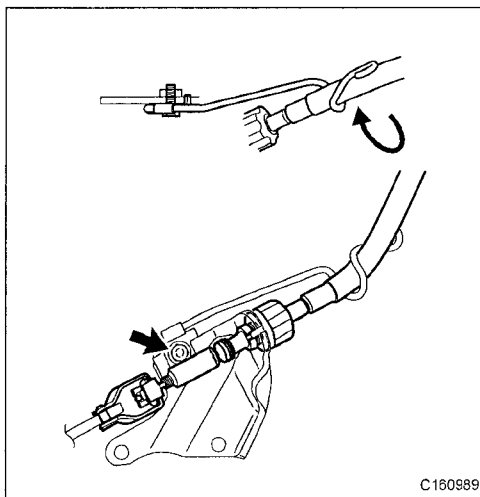
- (9) Coat the connecting part of the clutch release fork lever and the clutch release cable bracket with MP grease.



- (10) Lightly pulling the clutch release fork lever with your hand, attach the clutch cable bracket to the clutch release fork lever.

27

- (11) Tighten the adjusting nut of the clutch release cable assembly to temporarily fix the clutch release cable assembly.



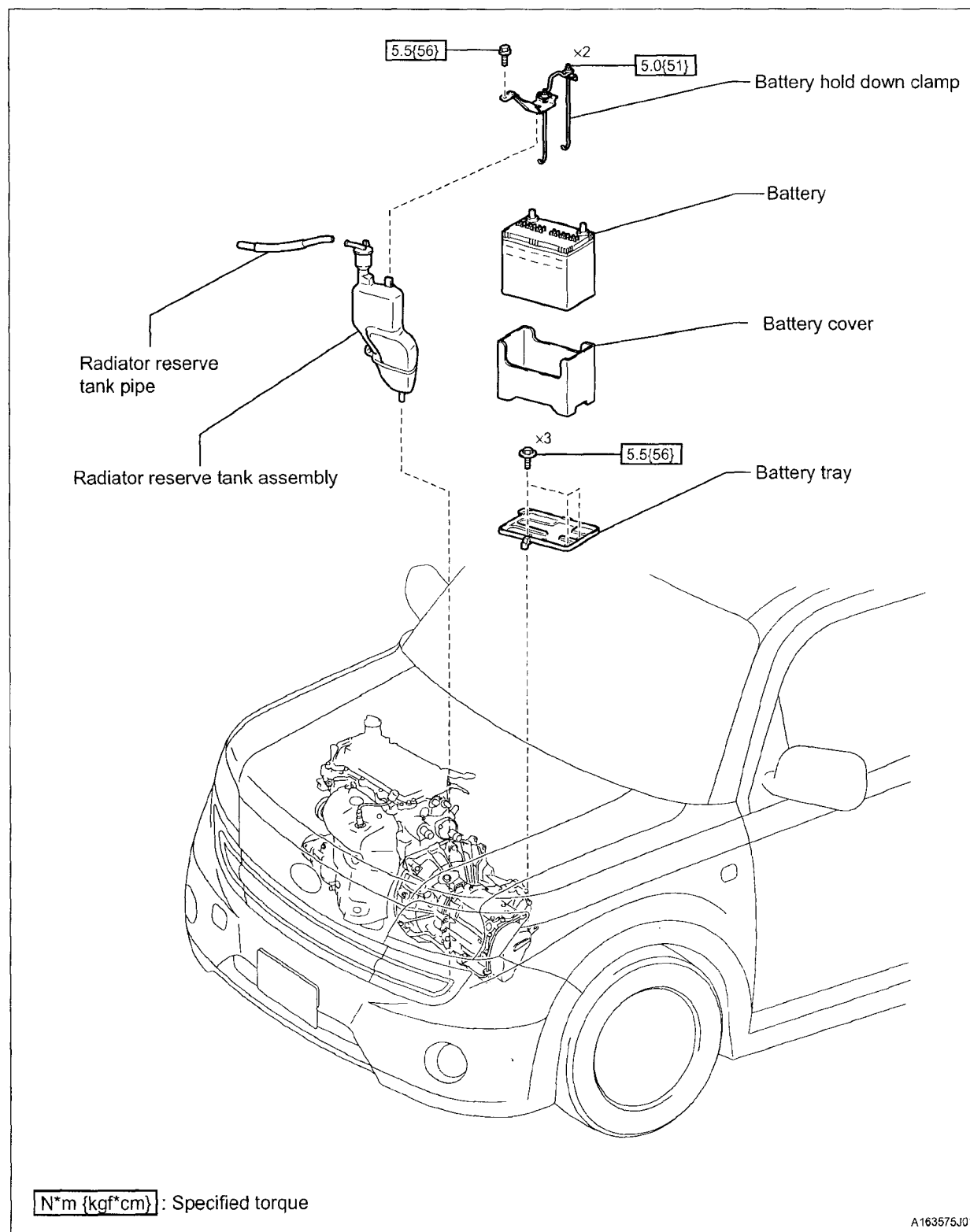
2. Clutch cable clamp installation

- (1) Use a bolt to attach the clutch cable clamp.
- (2) Attach the clutch release cable assembly to the clutch cable clamp.

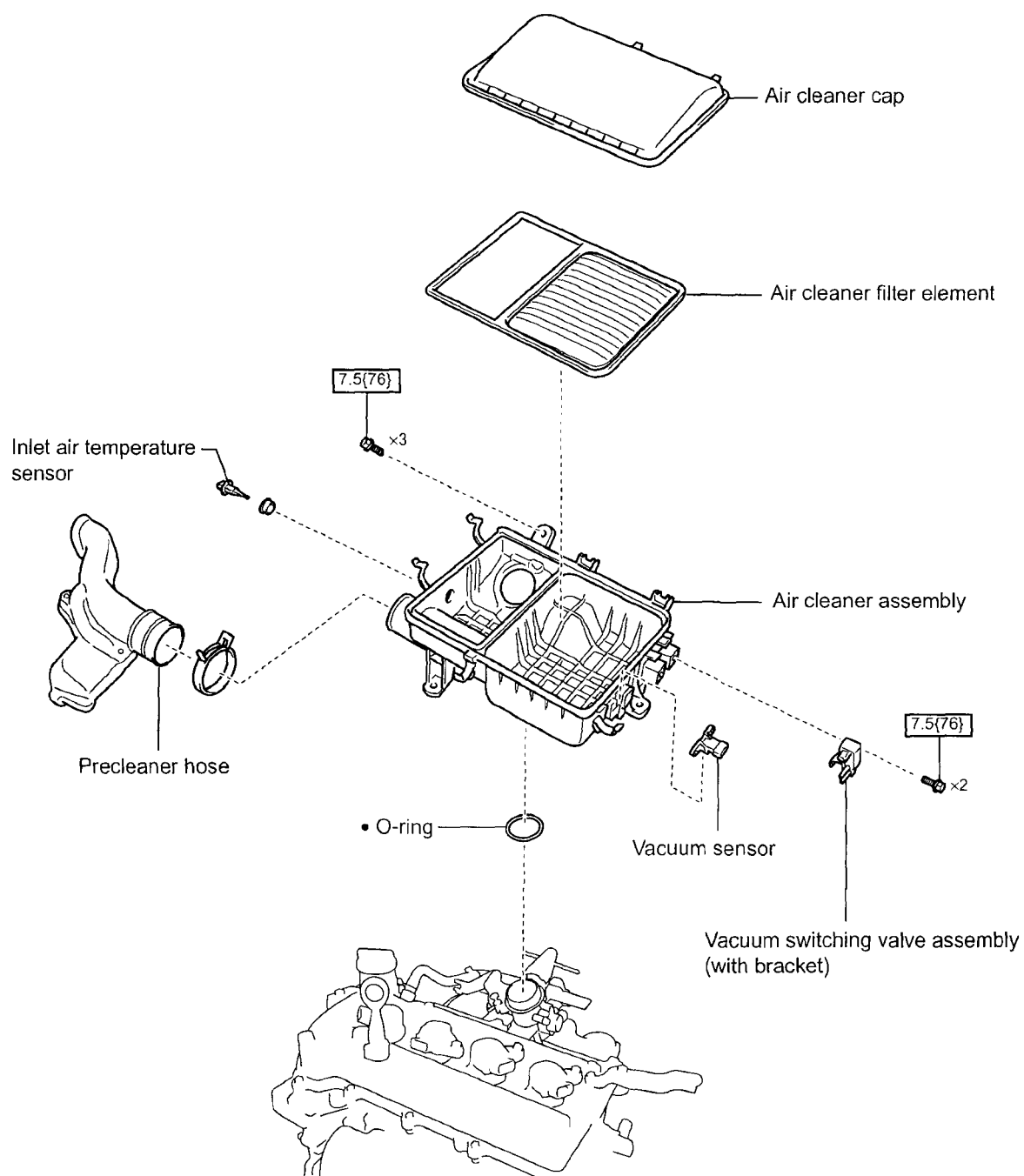
3. Clutch pedal check · adjustment (See page 27-19)
4. Instrument panel finish panel LWR installation (See page 27-21)

CLUTCH UNIT (FF)

COMPONENTS



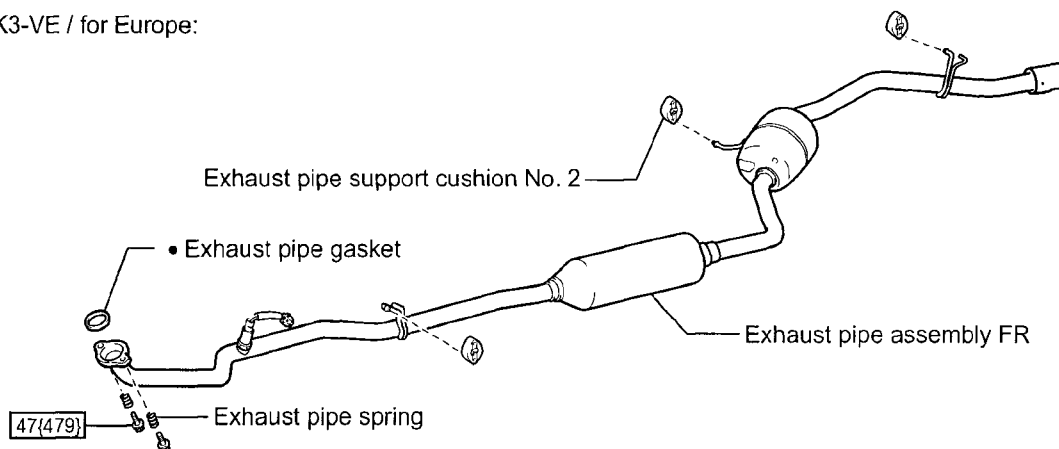
27



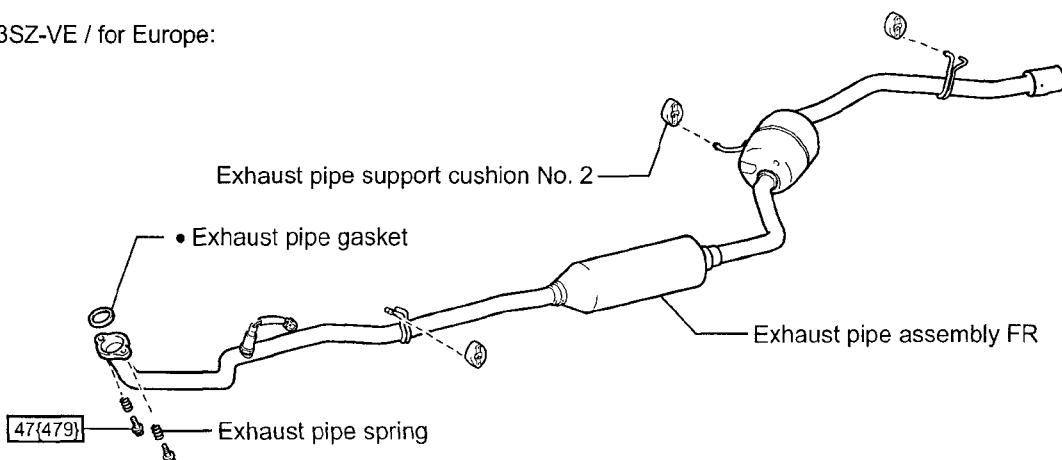
N*m {kgf*cm} : Specified torque

• Non-reusable part

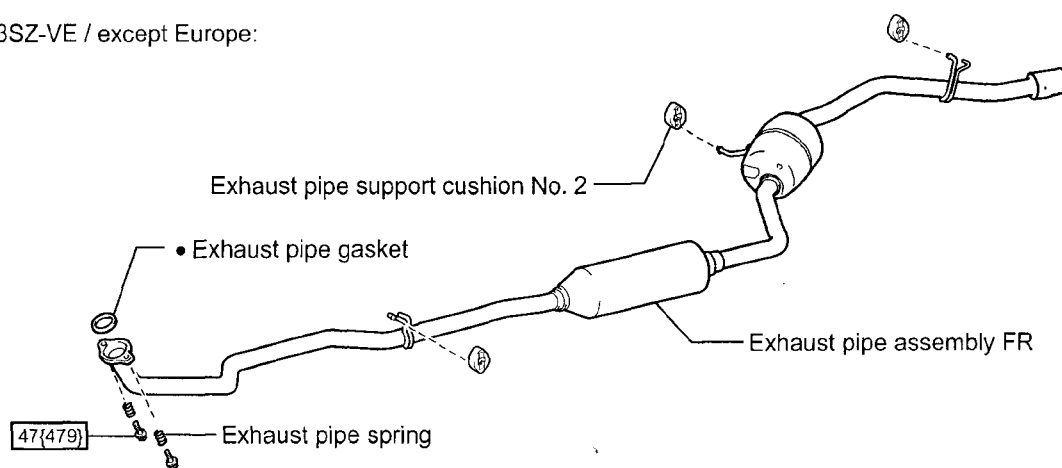
K3-VE / for Europe:



3SZ-VE / for Europe:



3SZ-VE / except Europe:

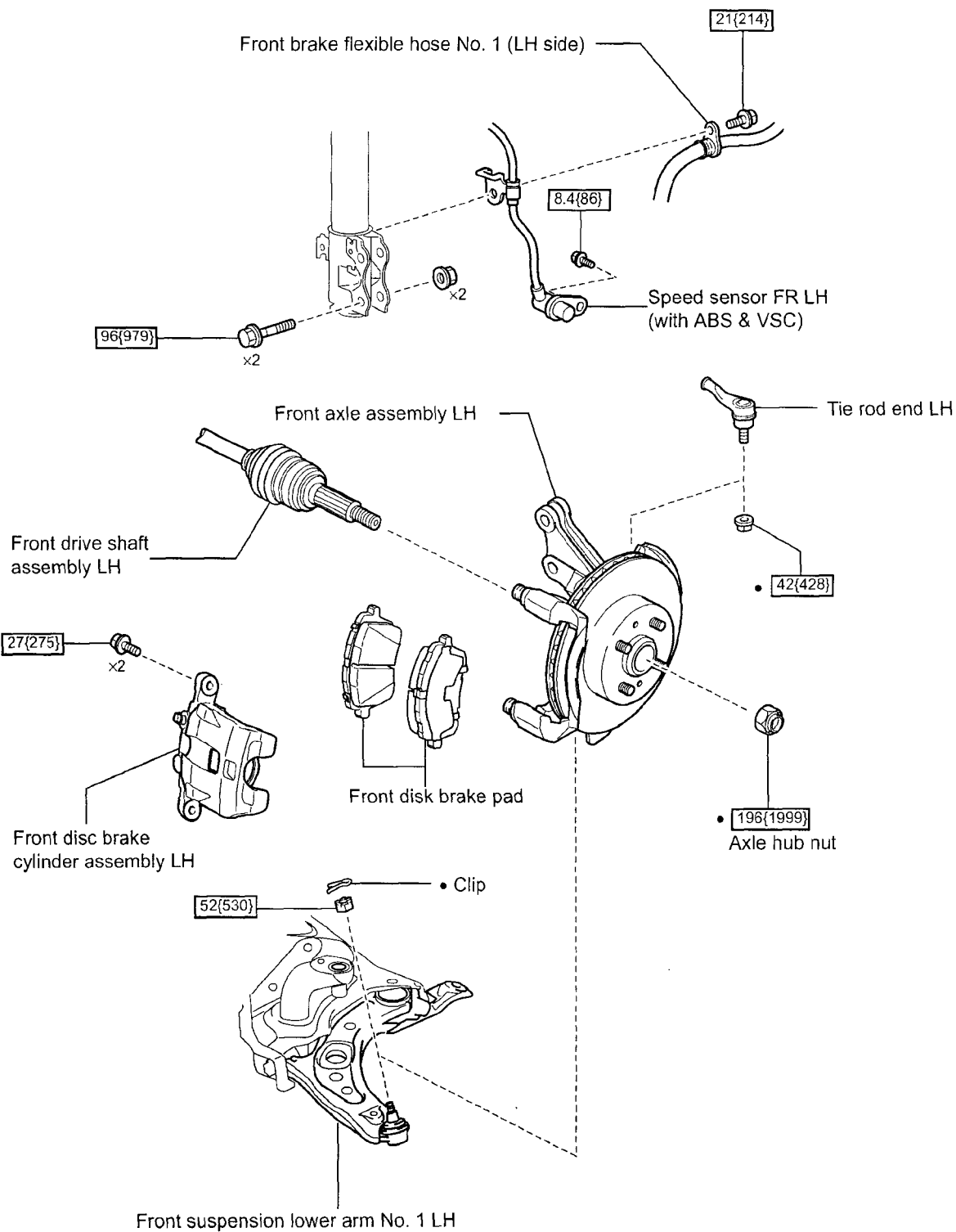


N*m {kgf*cm} : Specified torque

• Non-reusable part

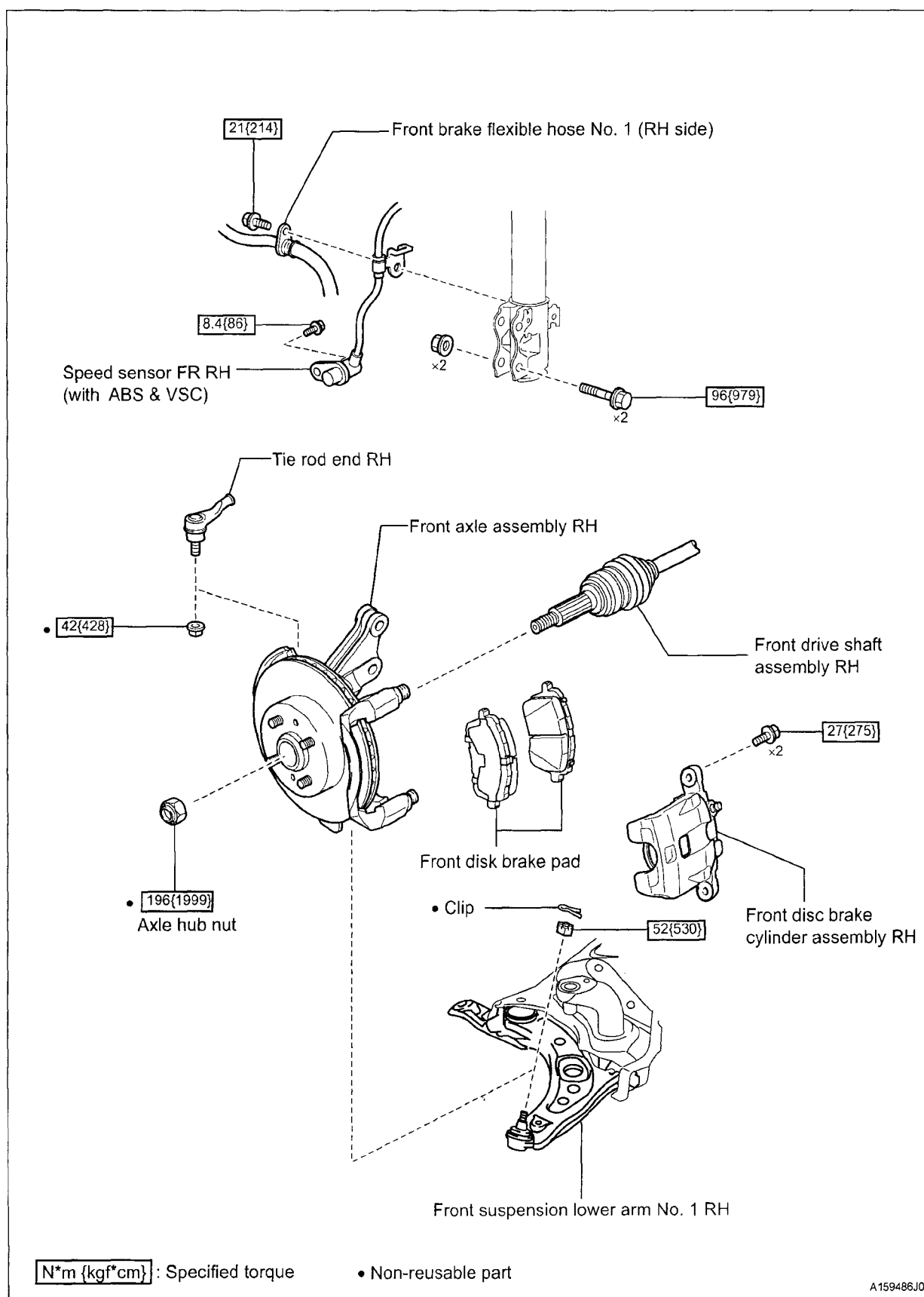
A159483J02

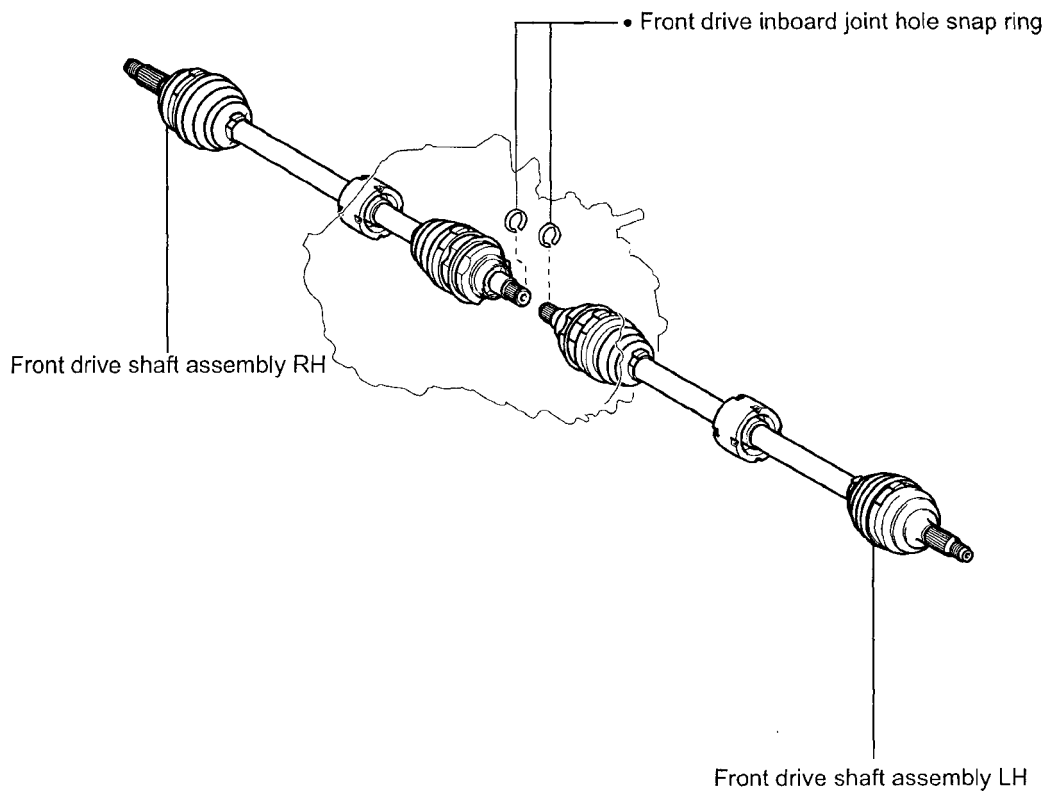
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N*m {kgf*cm} : Specified torque

• Non-reusable part



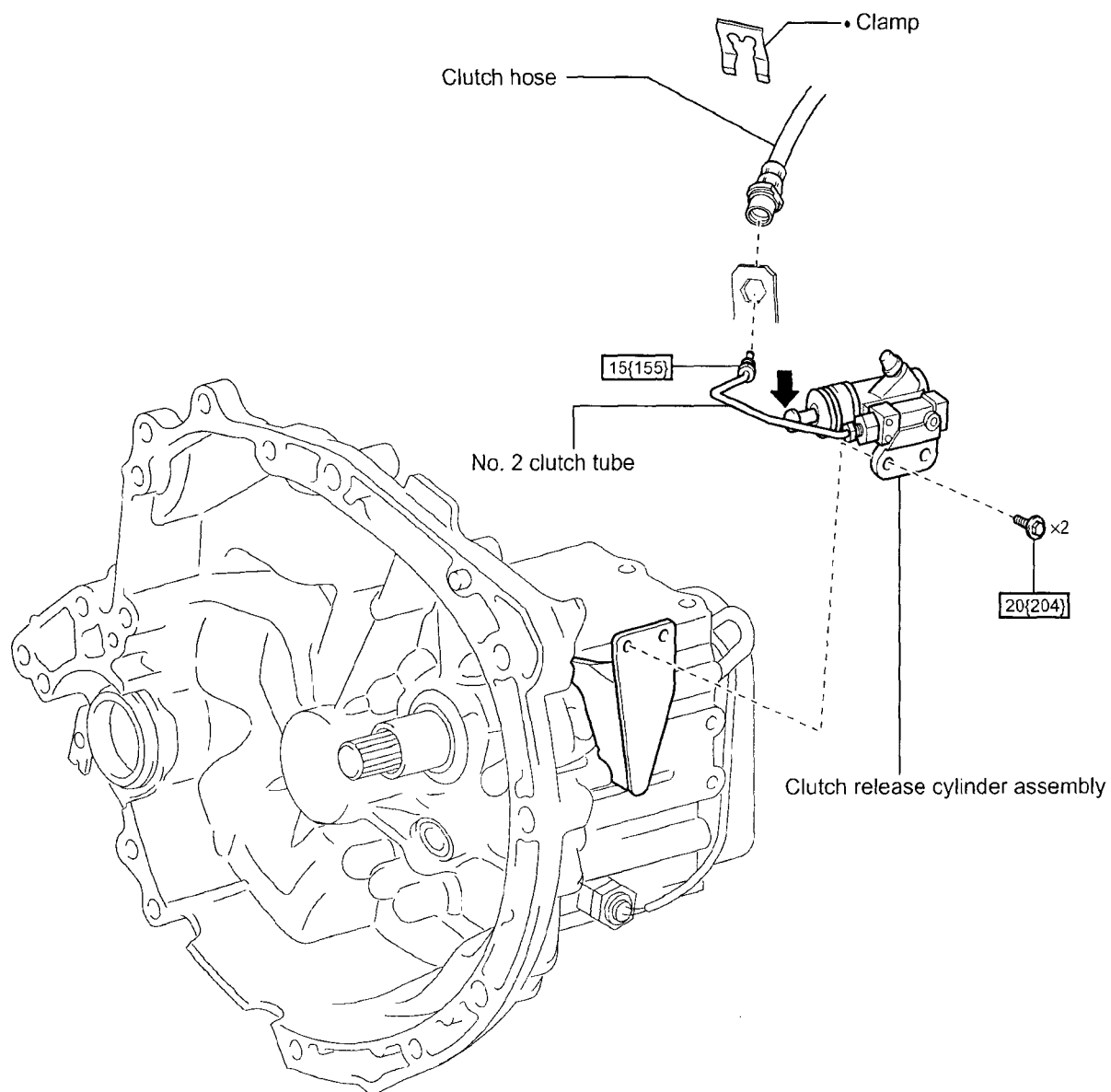


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• Non-reusable part

A149649J01

3SZ-VE:



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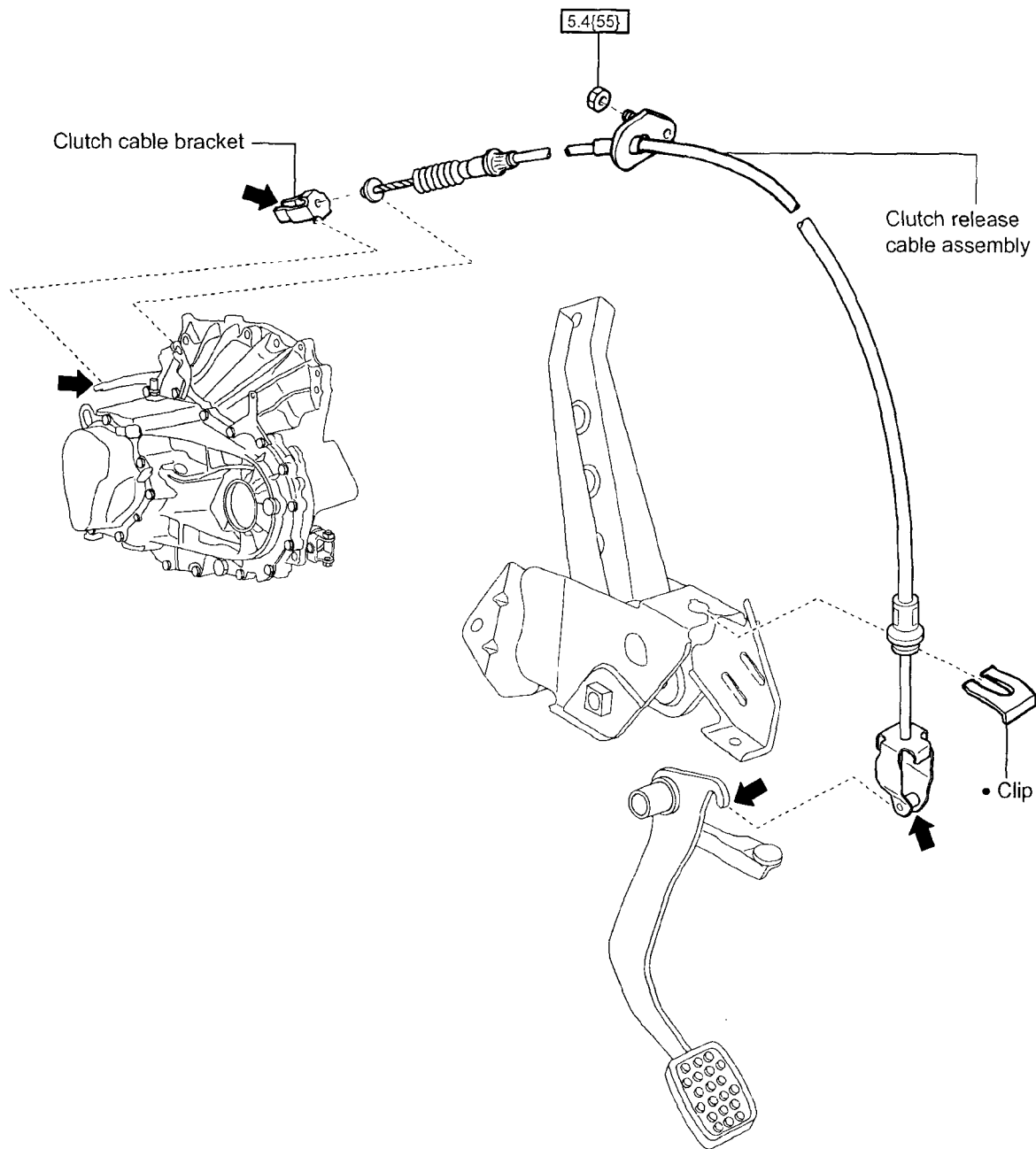
[N*m {kgf*cm}]: Specified torque

• Non-reusable part

↪ Apply MP Grease

C159921J01

K3-VE:



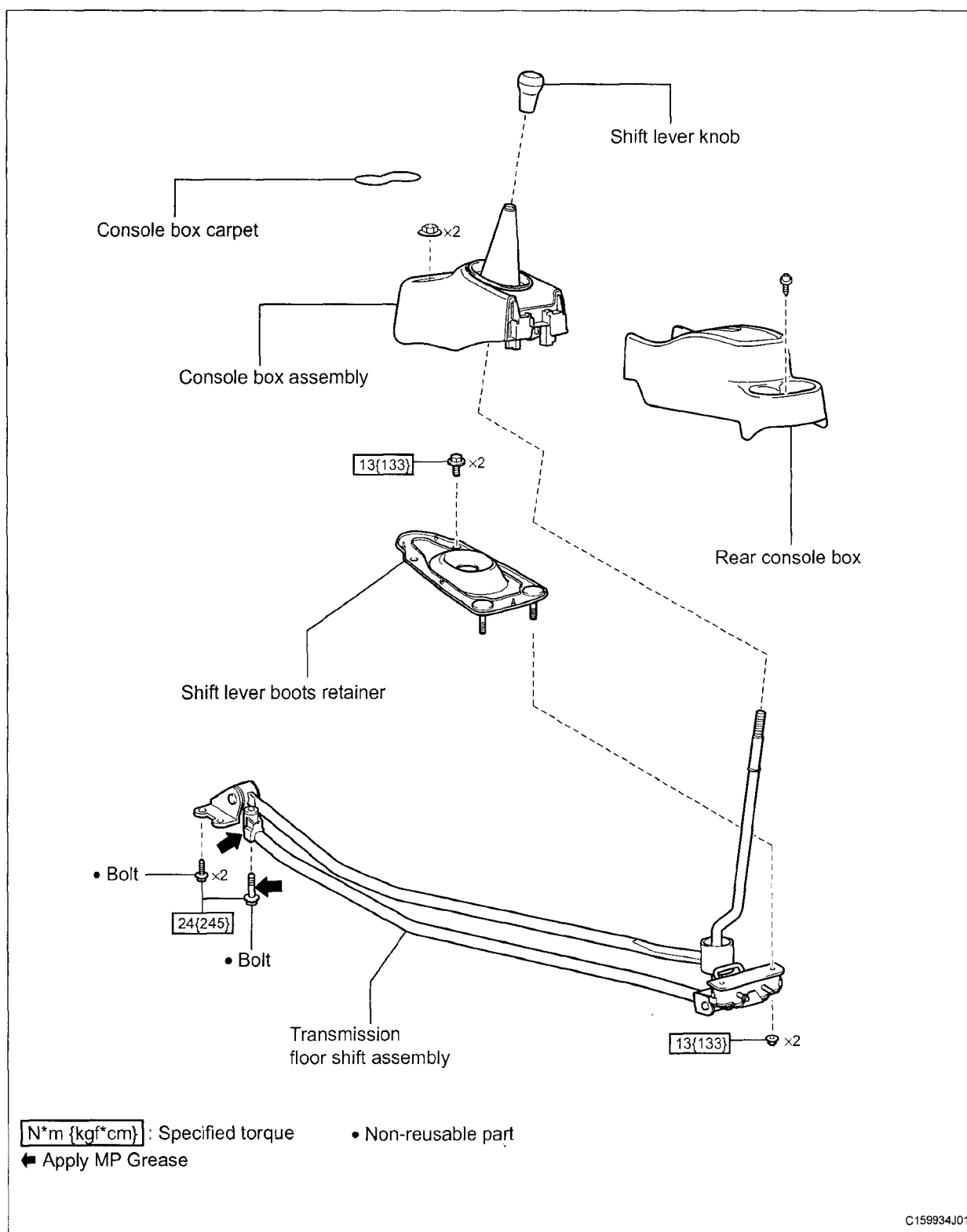
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[N*m {kgf*cm}]: Specified torque

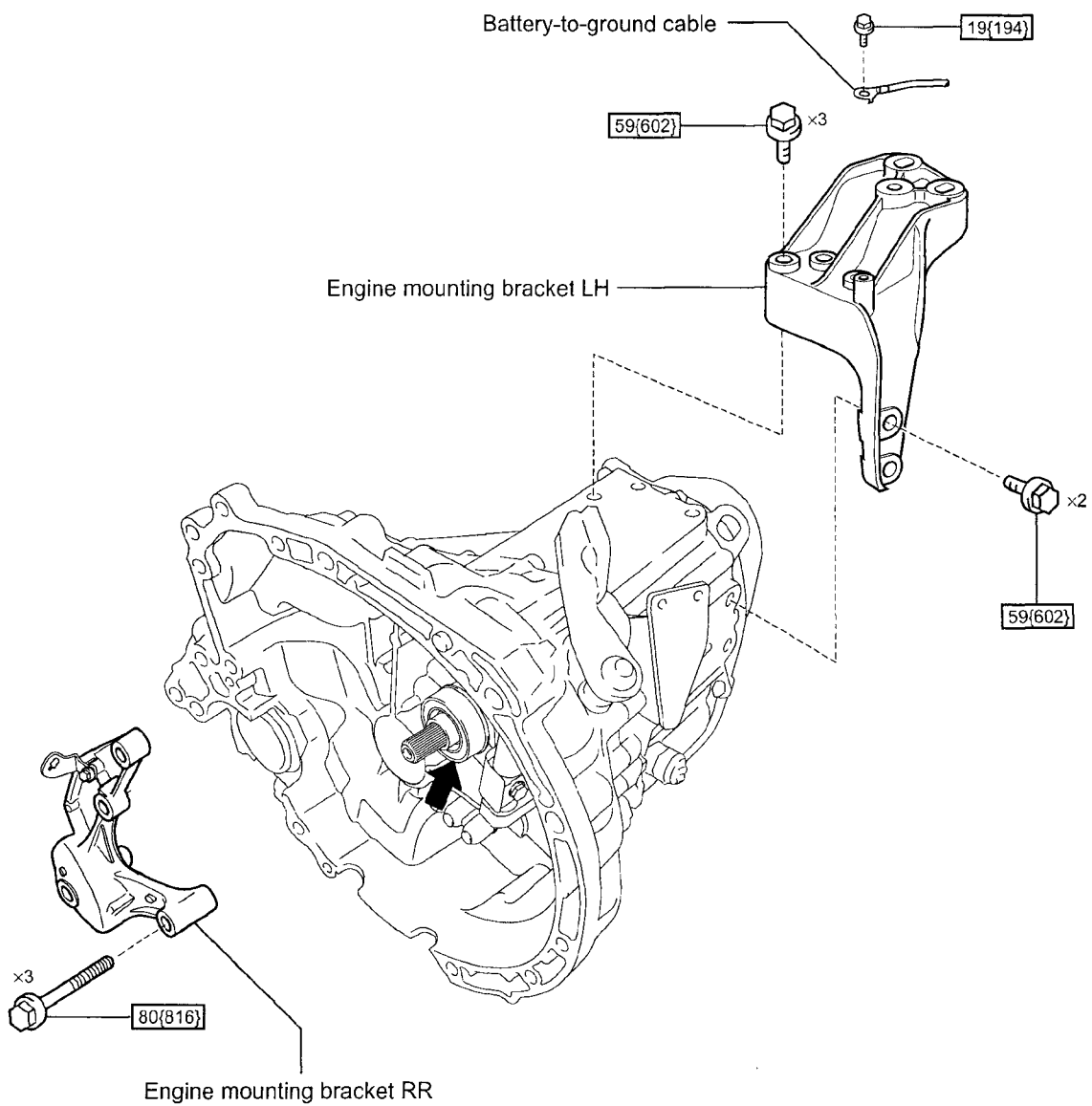
• Non-reusable part

◀ Apply MP Grease

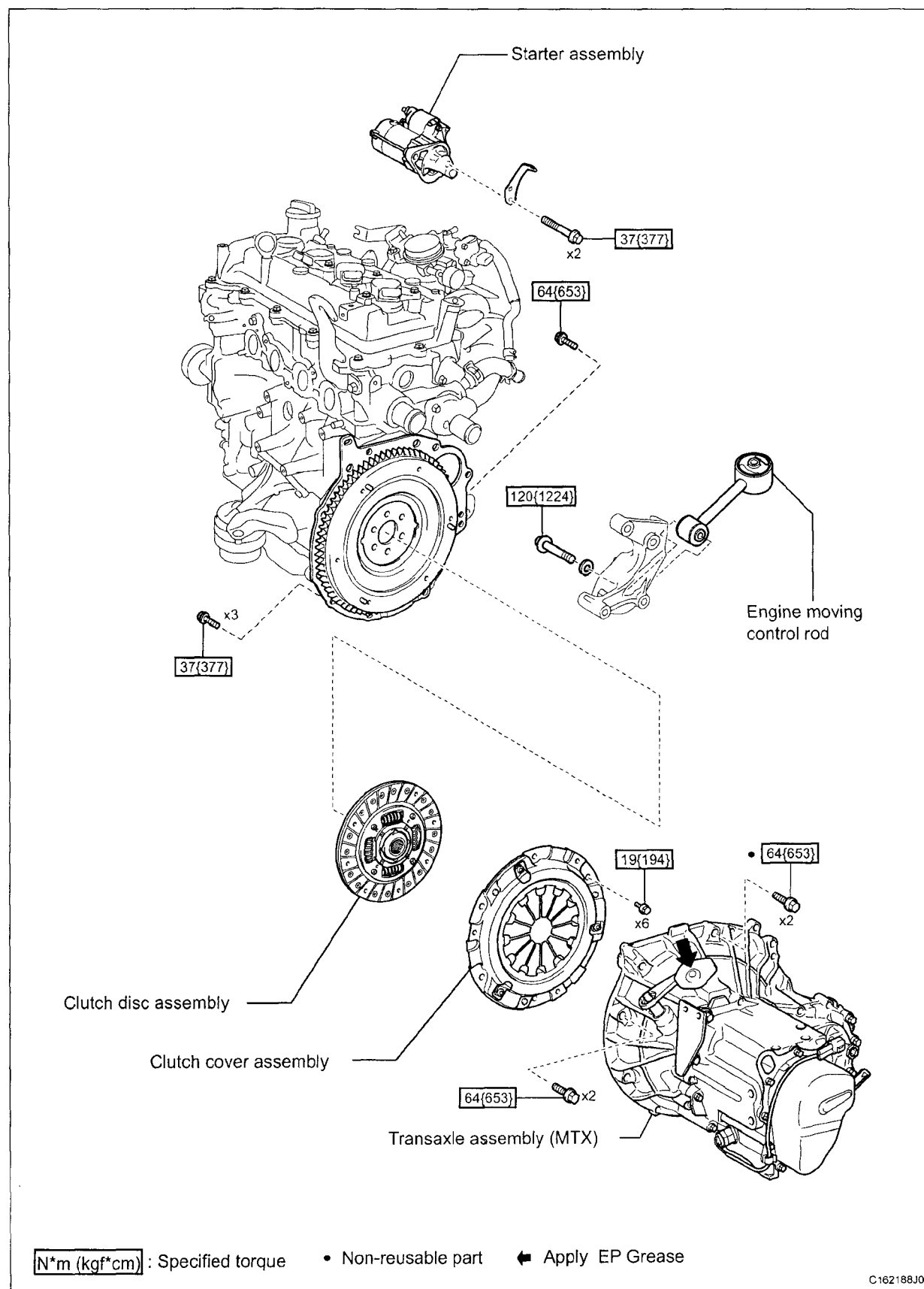
C180985J01



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N*m {kgf*cm} : Specified torque ← Apply EP Grease

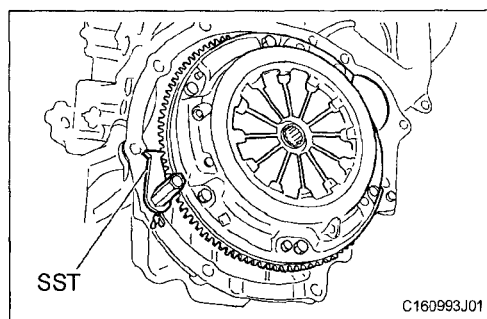


REMOVAL

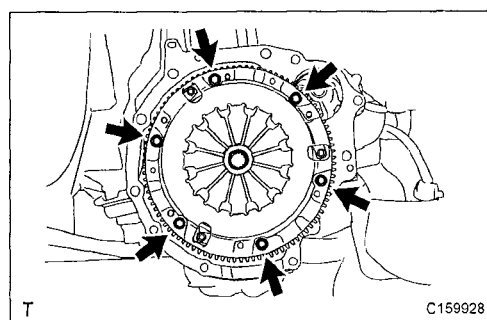
1. Battery minus terminal disconnection
2. Front tire removal
3. Manual transaxle oil drainage (See page 29-36)
4. Exhaust pipe assembly FR removal (See page 11-15)
5. Brake fluid drainage
6. Battery hold down clamp removal (See page 07-48)
7. Radiator reserve tank assembly removal (See page 07-48)
8. Battery cover removal
9. Battery removal
10. Battery tray removal (See page 07-48)
11. Air cleaner cap removal
12. Air cleaner filter element removal
13. Vacuum sensor disconnection (See page 06-140)
14. Vacuum switching valve assembly (with Bracket) disconnection (See page 06-140)
15. Inlet air temperature sensor disconnection (See page 06-140)
16. Precleaner hose removal (See page 06-141)
17. Air cleaner assembly removal (See page 06-141)
18. Engine undercover LH removal (See page 07-52)
19. Engine undercover RH removal (See page 07-52)
20. Front brake flexible hose No. 1 (LH) disconnection (without ABS & VSC) (See page 36-7)
21. Front brake flexible hose No. 1 (RH) disconnection (without ABS & VSC) (See page 36-7)
22. Speed sensor FR LH disconnection (with ABS & VSC) (See page 36-7)
23. Speed sensor FR RH disconnection (with ABS & VSC) (See page 36-7)
24. Front stabilizer link assembly LH disconnection (See page 36-8)
25. Front stabilizer link assembly RH disconnection (See page 36-8)
26. Front disc brake cylinder assembly LH removal (See page 36-8)
27. Front disc brake cylinder assembly RH removal (See page 36-8)
28. Axle hub nut removal (LH) (See page 36-8)
29. Axle hub nut removal (RH) (See page 36-8)
30. Tie rod end LH disconnection (See page 36-8)
31. Tie rod end RH disconnection (See page 36-8)
32. Front shock absorber assembly LH disconnection (See page 36-8)
33. Front shock absorber assembly RH disconnection (See page 36-9)
34. Steering knuckle LH disconnection (See page 36-9)
35. Steering knuckle RH disconnection (See page 36-9)
36. Front drive shaft assembly LH removal (See page 36-9)
37. Front drive shaft assembly RH removal (See page 36-9)
38. Clutch release cylinder assembly removal (3SZ-VE) (See page 36-9)
39. Clutch hose disconnection (3SZ-VE) (See page 36-9)
40. Clutch cable clamp removal (K3-VE) (See page 29-37)
41. Clutch release cable assembly disconnection (K3-VE) (See page 29-37)
42. Shift lever knob removal (See page 29-37)
43. Rear console box removal (See page 29-38)
44. Console box carpet removal (See page 29-54)
45. Console box assembly removal (See page 29-54)
46. Transmission floor shift assembly removal (See page 29-54)

47. Wire harness disconnection (See page 29-54)
48. Back-up light switch connector disconnection (See page 29-55)
49. Starter assembly disconnection (See page 29-38)
50. Engine assembly hanging (See page 29-38)
51. Engine mounting bracket LH removal (See page 29-39)
52. Engine mounting bracket RR removal (See page 29-39)
53. Transaxle assembly (MTX) removal (See page 29-40)
54. Clutch cover assembly removal

(1) Put a dowel mark on both the clutch cover assembly and the flywheel.



(2) Use SST to prevent the flywheel from rotating.
SST 09210-87701



(3) Remove 6 bolts and then the clutch cover assembly.

<CAUTION>

Be sure not to drop the clutch disc assembly.

55. Clutch disc assembly removal

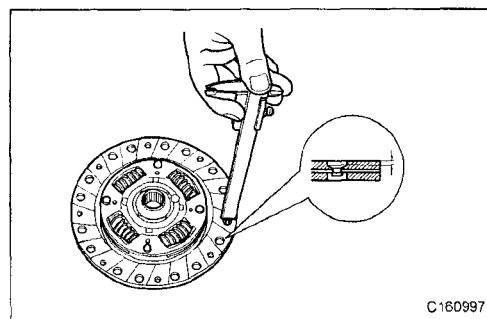
<CAUTION>

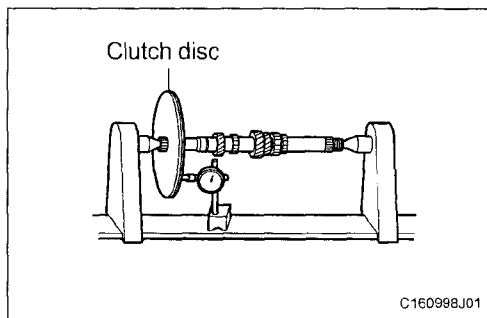
Keep oil and foreign particles off the surfaces of the lining of the clutch disc assembly, the pressure plate, and the flywheel.

INSPECTION

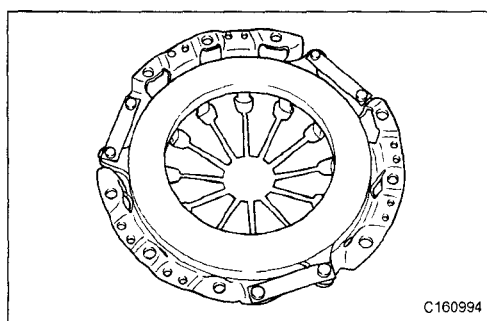
1. Clutch disc assembly check

- (1) Visually check for wear, damage, or oil contamination of the clutch disk assembly.
- (2) Check for wear of the facing using a vernier caliper.
Limits Wear 0.4 mm (sinking depth of the rivet)



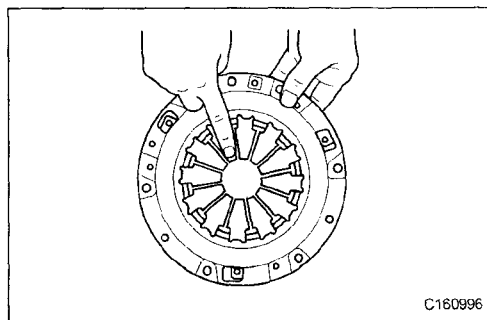


- (3) Attach the clutch disc assembly to a new input shaft and measure runout of the clutch disc assembly.
Limits Runout of the side surface 1.0 mm



2. Clutch cover assembly check

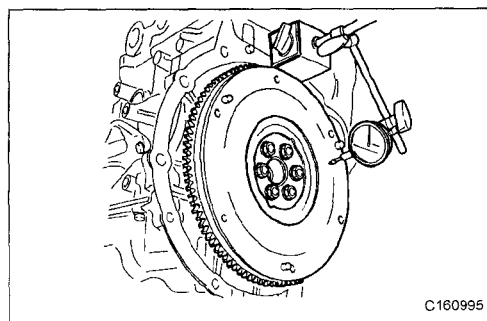
- (1) Check if there is any streak, crazing, or discoloration on the pressure plate of the clutch cover assembly.



- (2) Check for wear, rusting, or damage of the pressure plate (diaphragm spring finger) of the clutch cover assembly.

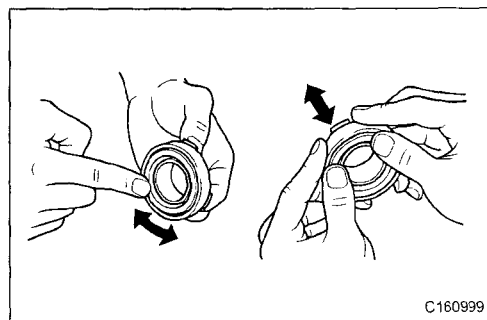
3. Flywheel check

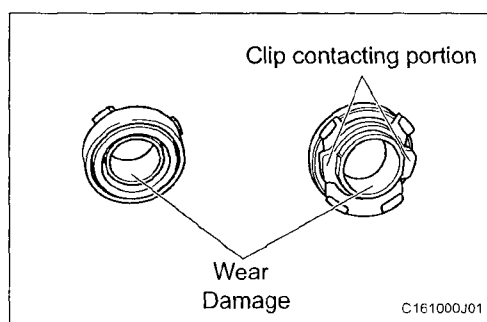
- (1) Clean the flywheel and check for runout.
Limits: Runout 0.10 mm



4. Clutch release bearing check

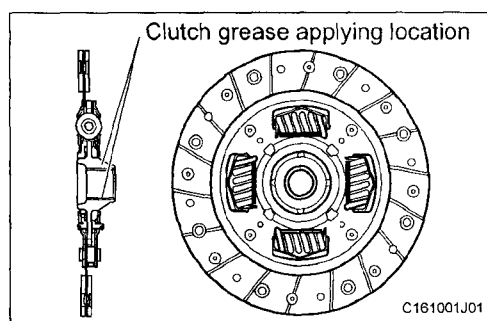
- (1) Rotate the sliding portion of the clutch release bearing (the portion that comes in contact with the clutch cover assembly) to make sure that no abnormal resistance is produced. Push the sliding portion in the direction of rotation to make sure that no abnormal resistance is produced.





- (2) Check for damage or wear of the clutch release bearing. Check for damage or wear of the clip contact portion and sliding portion of the housing.

INSTALLATION

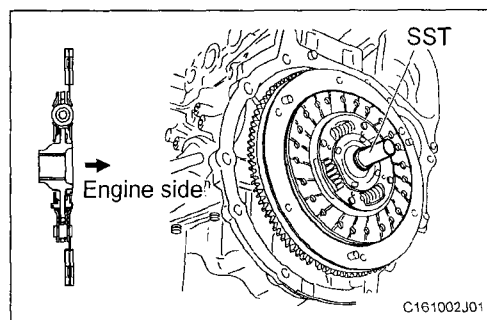


1. Clutch disc assembly installation

- (1) Coat the inner surface of the hub of the clutch disc assembly with a small amount of clutch grease.

<CAUTION>

- > Clutch grease should be applied from the clutch cover assembly side.
- > The coat of clutch grease should be as thin as possible so that excessive grease does not protrude to the flywheel side.



- (2) Use SST to center the clutch disc assembly.

SST 09301-87703

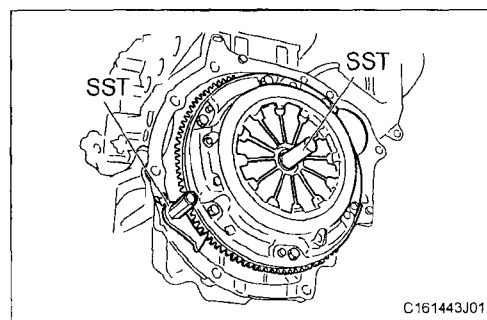
<CAUTION>

- > Keep oil and foreign particles off the surfaces of the lining of the clutch disc assembly, the pressure plate, and the flywheel.
- > Make sure that the installation direction of the clutch disc assembly is correct.

27

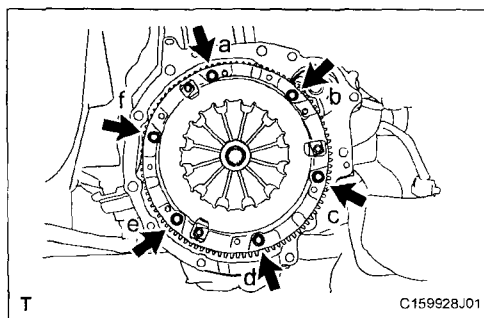
2. Clutch cover assembly installation

- (1) Align the dowel marks and positions of the knock pins on the clutch cover assembly and the flywheel and attach the clutch cover assembly.



- (2) Use SST to prevent the flywheel from rotating.

SST 09210-87701



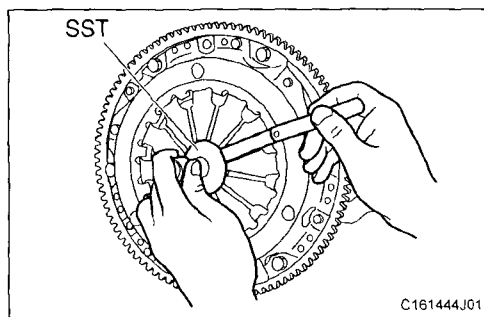
(3) Temporarily tighten bolts a and c in that order.

<HINT>

Bolt a is to be placed in one of the three bolt positions near the knock pin.

(4) Fully tighten bolts e, a, c, f, b, and d in that order.

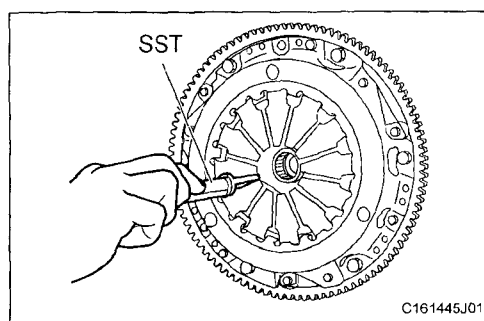
Specified value: $T=19N\cdot m$ {194kgf $\cdot$ cm}



(5) Check runout (height) of the diaphragm spring of the clutch cover assembly using SST.

SST 09302-87701

Limits 0.6 mm



(6) If the limits are exceeded, use SST to adjust runout of the diaphragm spring.

SST 09333-00013

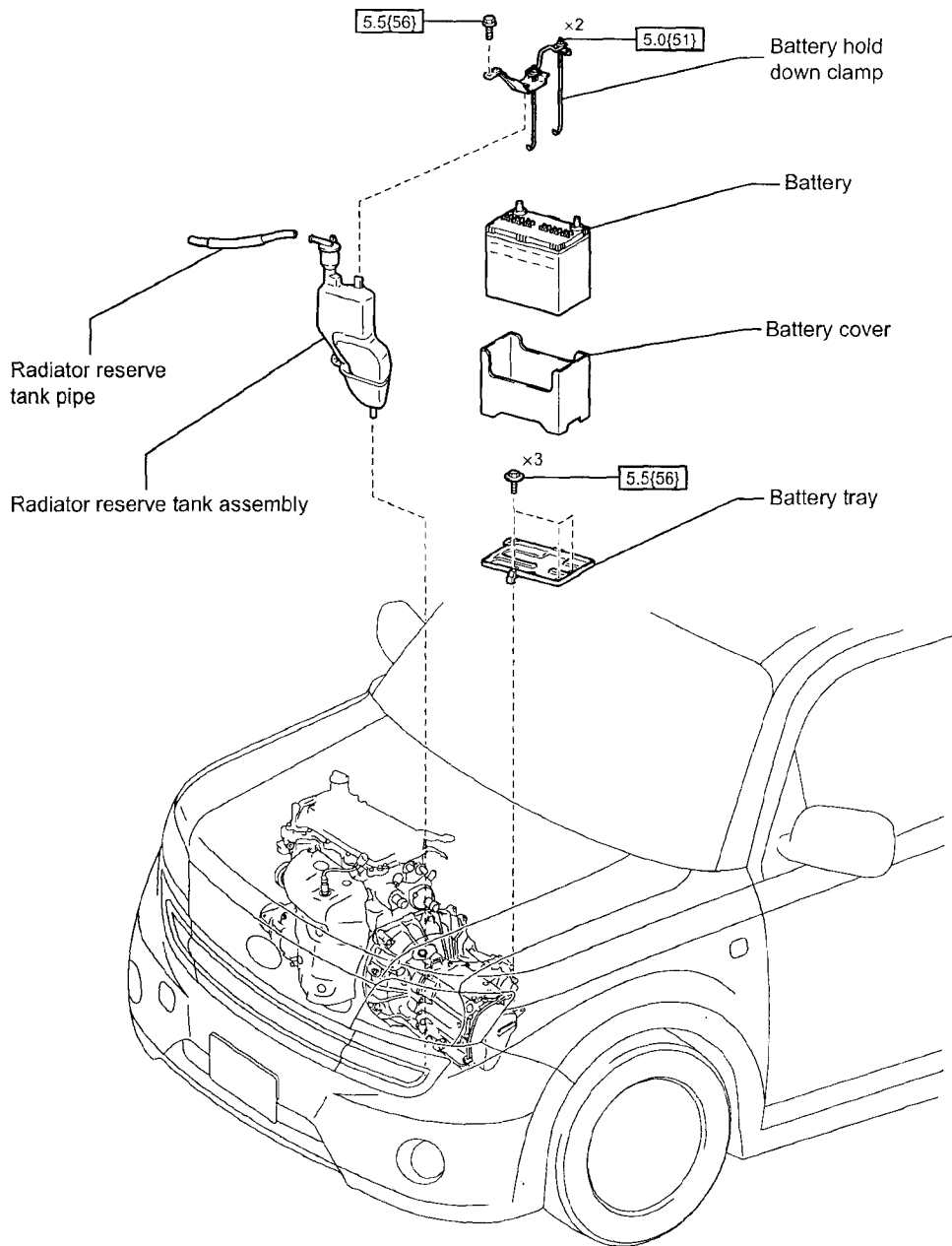
27

3. Transaxle assembly (MTX) installation (See page 29-41)
4. Engine mounting bracket RR installation (See page 29-41)
5. Engine mounting bracket LH installation (See page 29-42)
6. Starter assembly installation (See page 29-42)
7. Back-up light switch connector installation (See page 29-43)
8. Wire harness connection (See page 29-43)
9. Transmission floor shift assembly installation (See page 29-55)
10. Console box assembly installation (See page 29-56)
11. Console box carpet installation (See page 29-56)
12. Rear console box installation (See page 29-57)
13. Shift lever knob installation (See page 29-57)
14. Clutch release cable assembly installation (K3-VE) (See page 29-44)
15. Clutch cable clamp installation (K3-VE) (See page 27-21)
16. Clutch release cable assembly adjustment (K3-VE) (See page 29-44)
17. Clutch cable clamp installation (K3-VE) (See page 29-45)
18. Clutch release cylinder assembly installation (3SZ-VE) (See page 29-45)
19. Front drive shaft assembly LH installation (See page 36-15)
20. Front drive shaft assembly RH installation (See page 36-15)

21. Steering knuckle LH installation (See page 36-15)
22. Steering knuckle RH installation (See page 36-15)
23. Front shock absorber assembly LH installation (See page 36-16)
24. Front shock absorber assembly RH installation (See page 36-16)
25. Tie rod end LH installation (See page 36-16)
26. Tie rod end RH installation (See page 36-16)
27. Axle hub nut installation (LH) (See page 36-16)
28. Axle hub nut installation (RH) (See page 36-16)
29. Front disc brake cylinder assembly LH installation (See page 36-16)
30. Front disc brake cylinder assembly RH installation (See page 36-17)
31. Front stabilizer link assembly LH installation (See page 36-17)
32. Front stabilizer link assembly RH installation (See page 36-17)
33. Speed sensor FR LH installation (with ABS & VSC) (See page 36-17)
34. Speed sensor FR RH installation (with ABS & VSC) (See page 36-17)
35. Front brake flexible hose No. 1 (LH) installation (without ABS & VSC) (See page 36-17)
36. Front brake flexible hose No. 1 (RH) installation (without ABS & VSC) (See page 36-17)
37. Engine undercover LH installation (See page 36-18)
38. Engine undercover RH installation (See page 36-18)
39. Air cleaner assembly installation (See page 06-149)
40. Precleaner hose installation (See page 06-149)
41. Inlet air temperature sensor connection (See page 06-149)
42. Vacuum switching valve assembly (with Bracket) connection (See page 06-149)
43. Vacuum sensor connection (See page 06-150)
44. Air cleaner filter element installation (See page 06-150)
45. Air cleaner cap installation (See page 06-150)
46. Battery tray installation (See page 07-90)
47. Battery installation
48. Battery cover installation
49. Radiator reserve tank assembly installation (See page 07-89)
50. Battery hold down clamp installation (See page 07-90)
51. Exhaust pipe assembly FR installation (See page 11-16)
52. Brake fluid replenishment (See page 45-4)
53. Clutch pipeline air bleeding (See page 27-2)
54. Clutch fluid leakage check (See page 27-2)
55. Brake fluid amount check (See page 45-4)
56. Manual transaxle oil replenishment (See page 29-46)
57. Front tire installation
Specified value: $T=103\text{N}\cdot\text{m}$ {1050kgf*cm}
58. Battery minus terminal connection
Specified value: $T=6.4\text{N}\cdot\text{m}$ {65kgf*cm}
59. Front wheel alignment check · adjustment
(See page 42-5)
60. Test mode check (Speed sensor circuit)
with ABS: (See page 44-15)
with VSC: (See page 44-62)

CLUTCH UNIT (4WD)

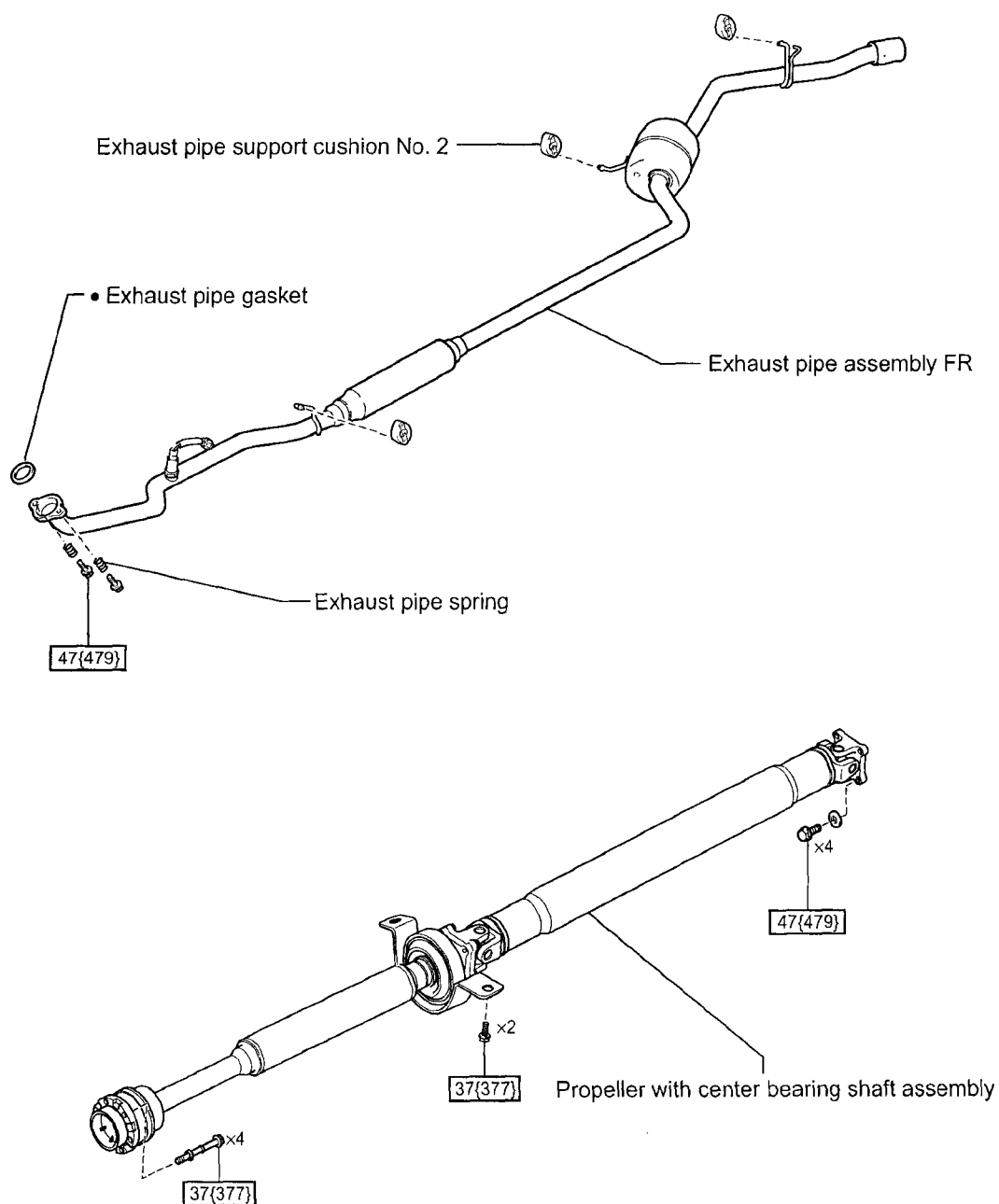
COMPONENTS



27

[N*m {kgf*cm}] : Specified torque

A161724J01

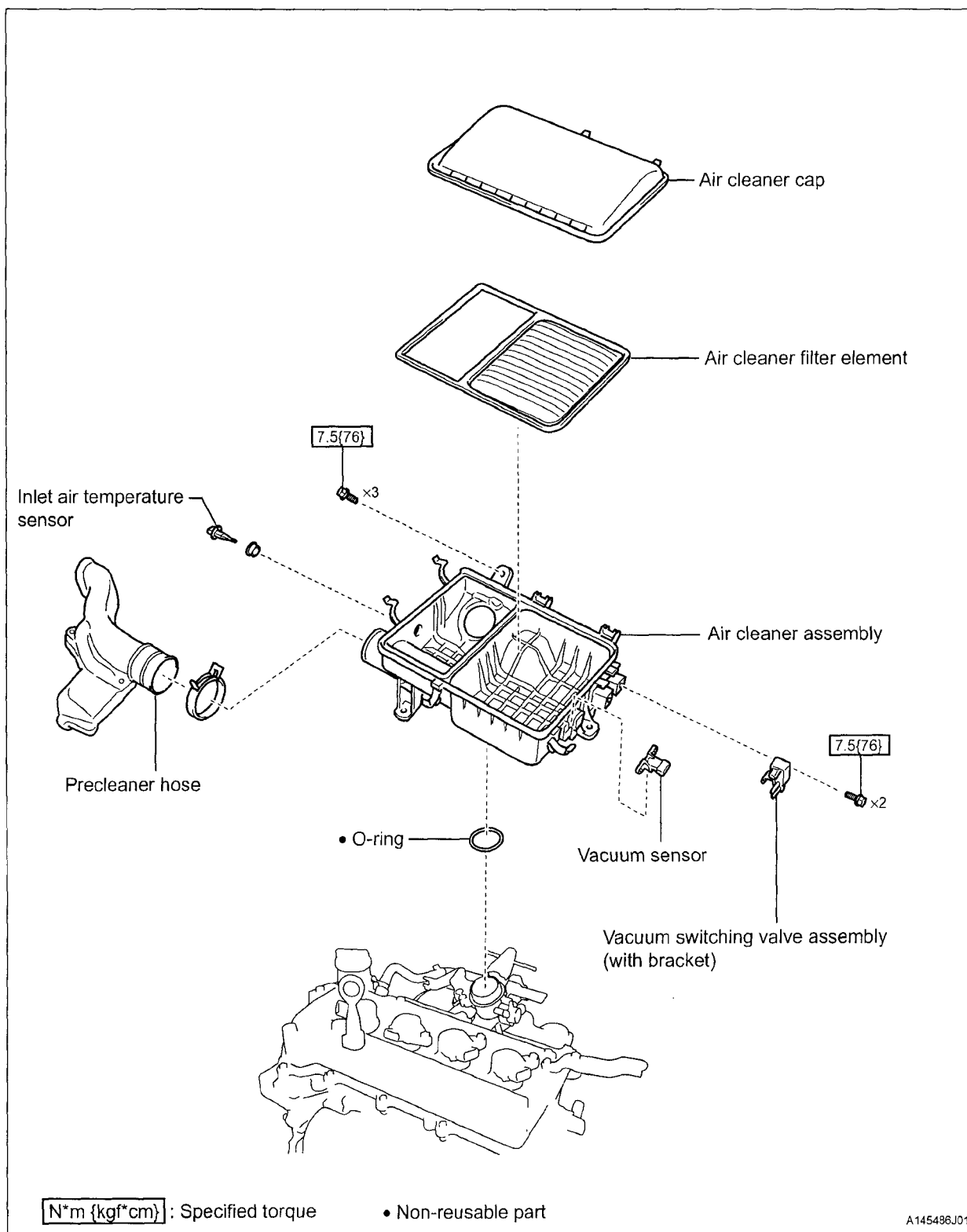


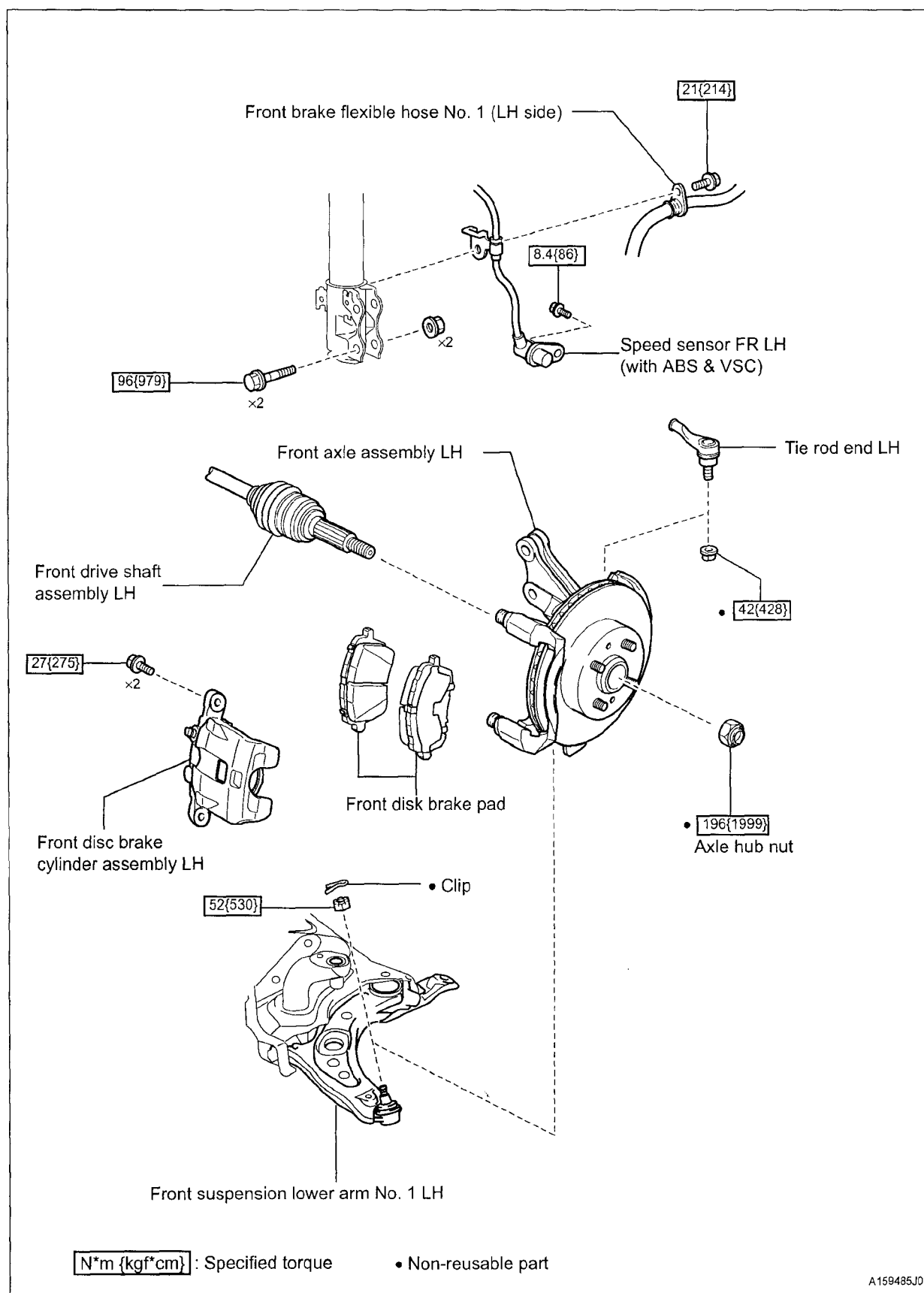
N*m {kgf*cm} : Specified torque

• Non-reusable part

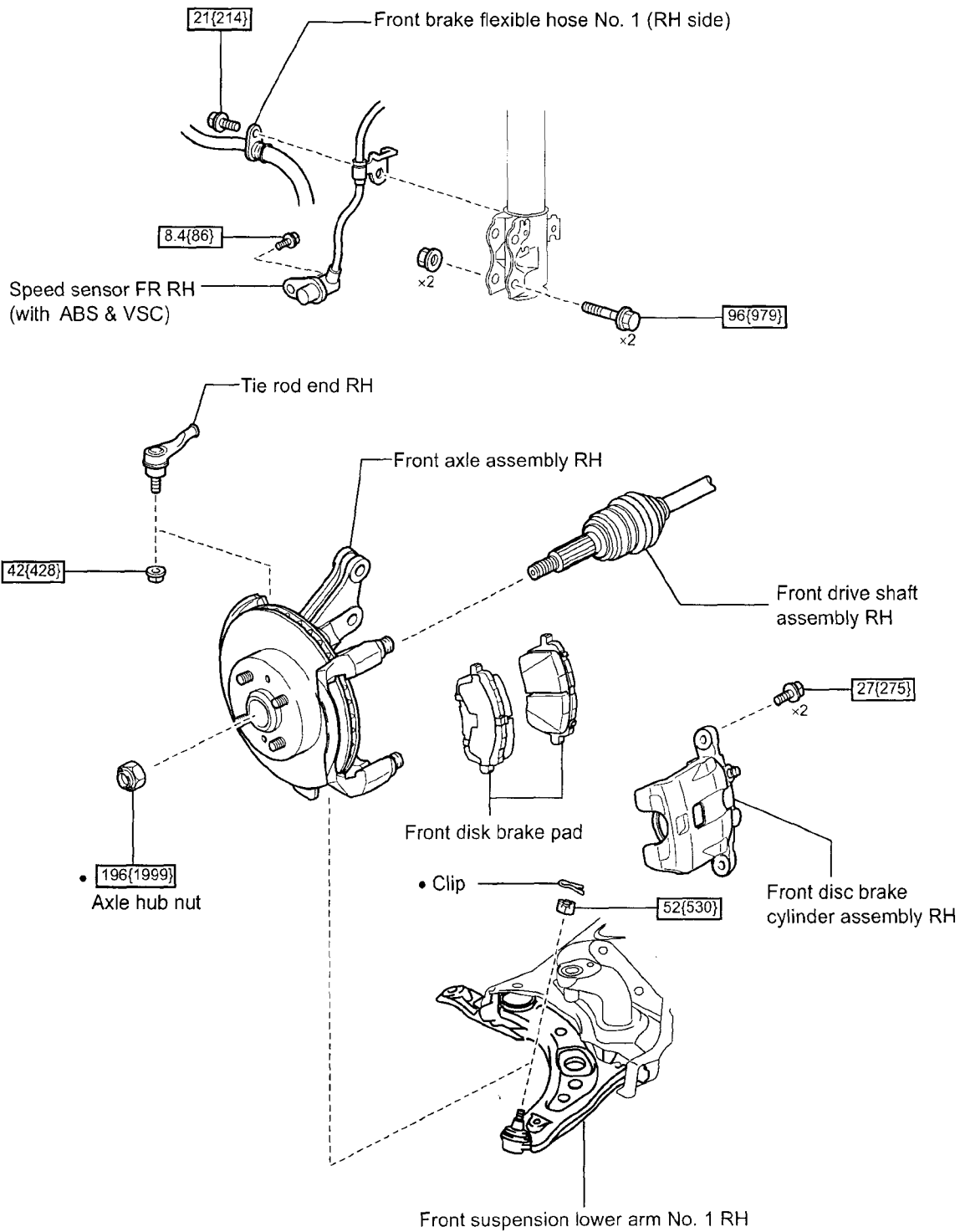
A165077J03

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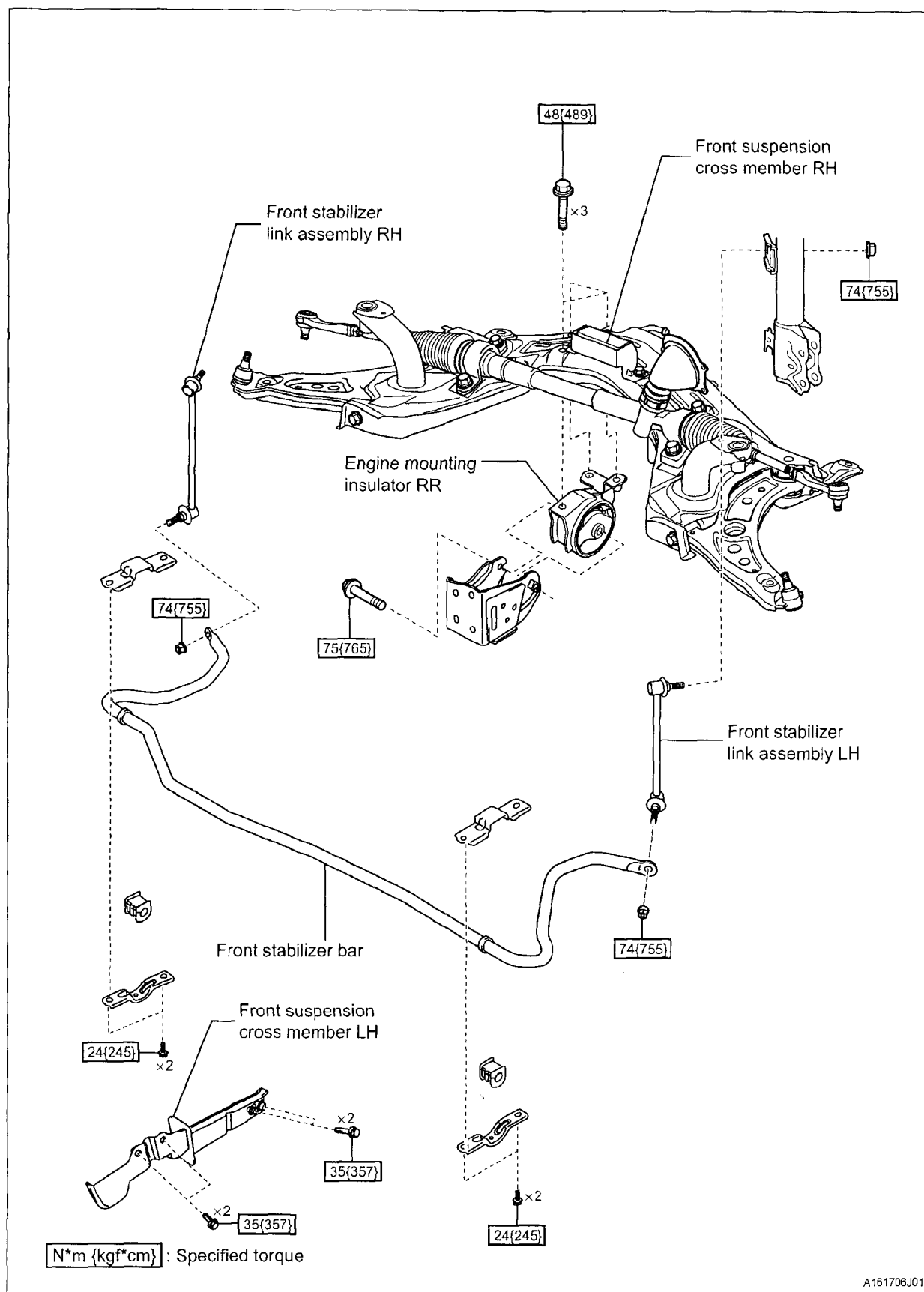
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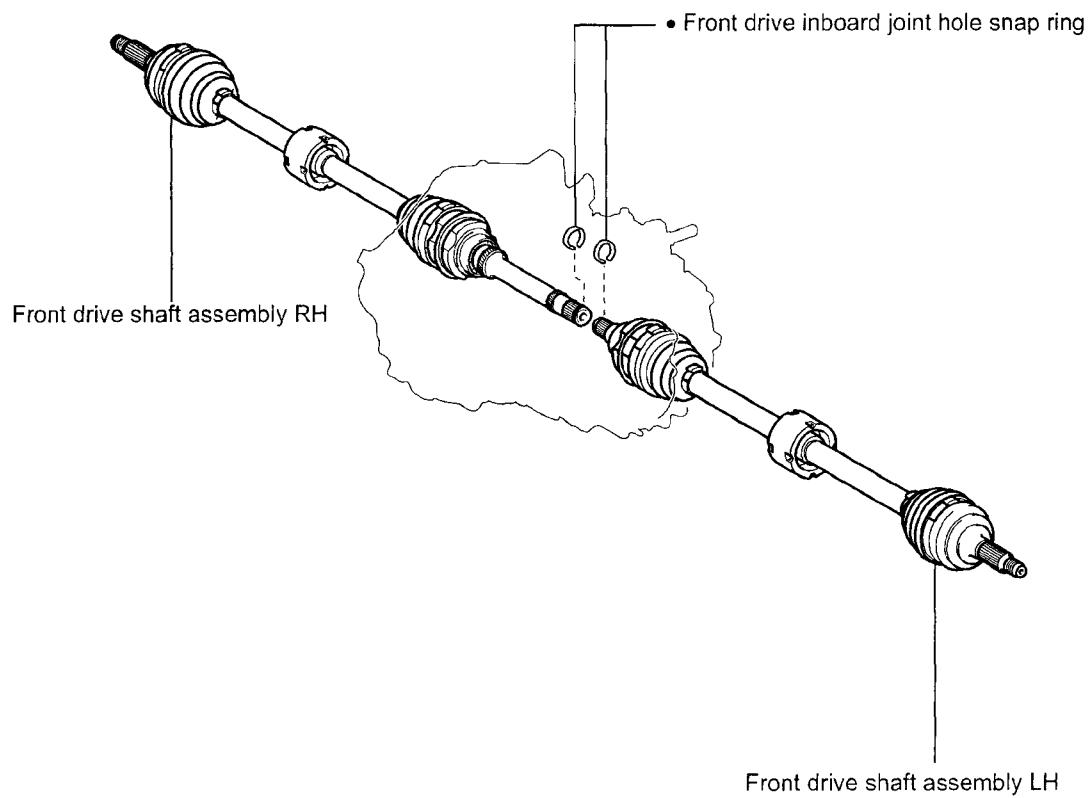


N*m {kgf*cm} : Specified torque

• Non-reusable part

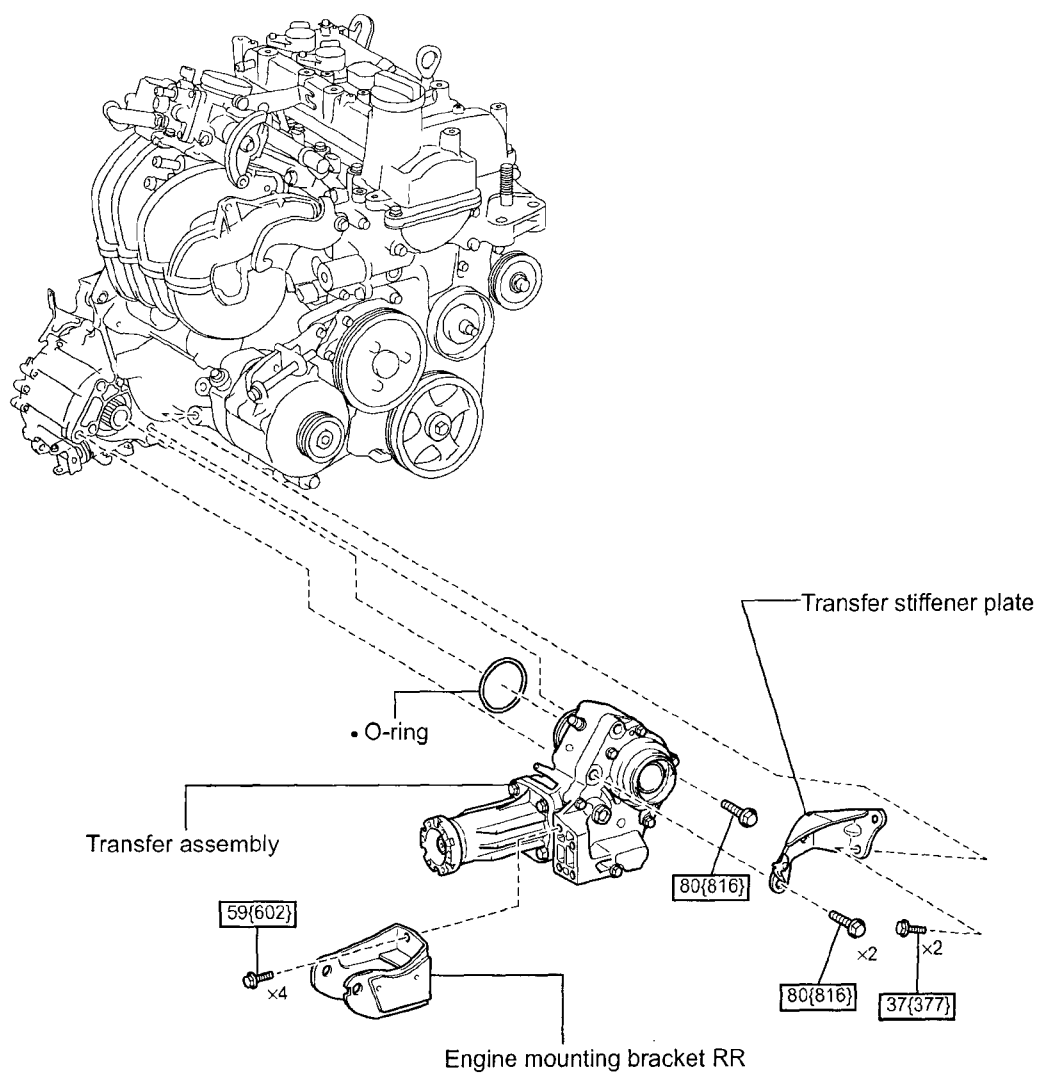
A159486J01





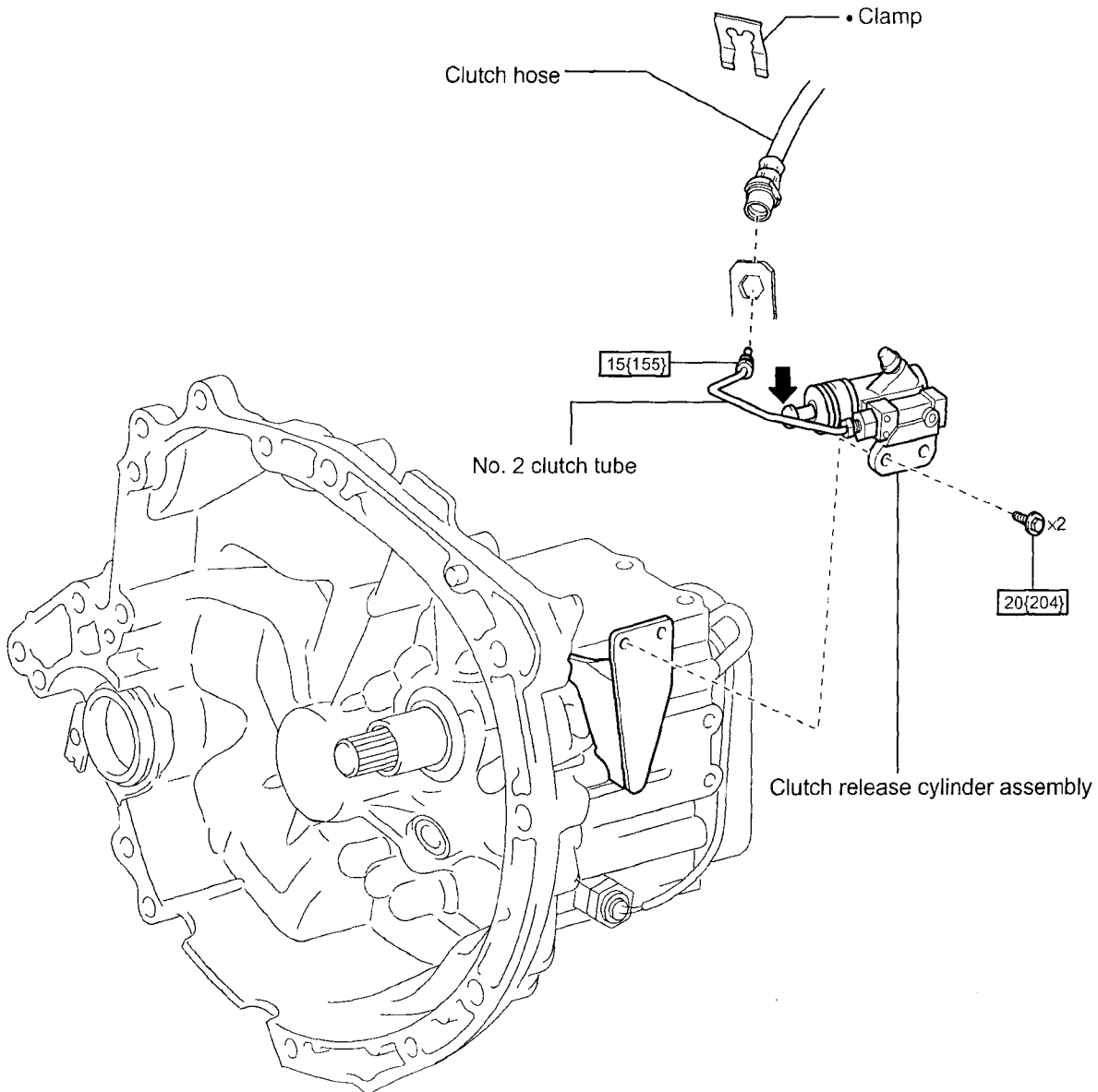
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• Non-reusable part



N*m {kgf*cm} : Specified torque • Non-reusable part

27

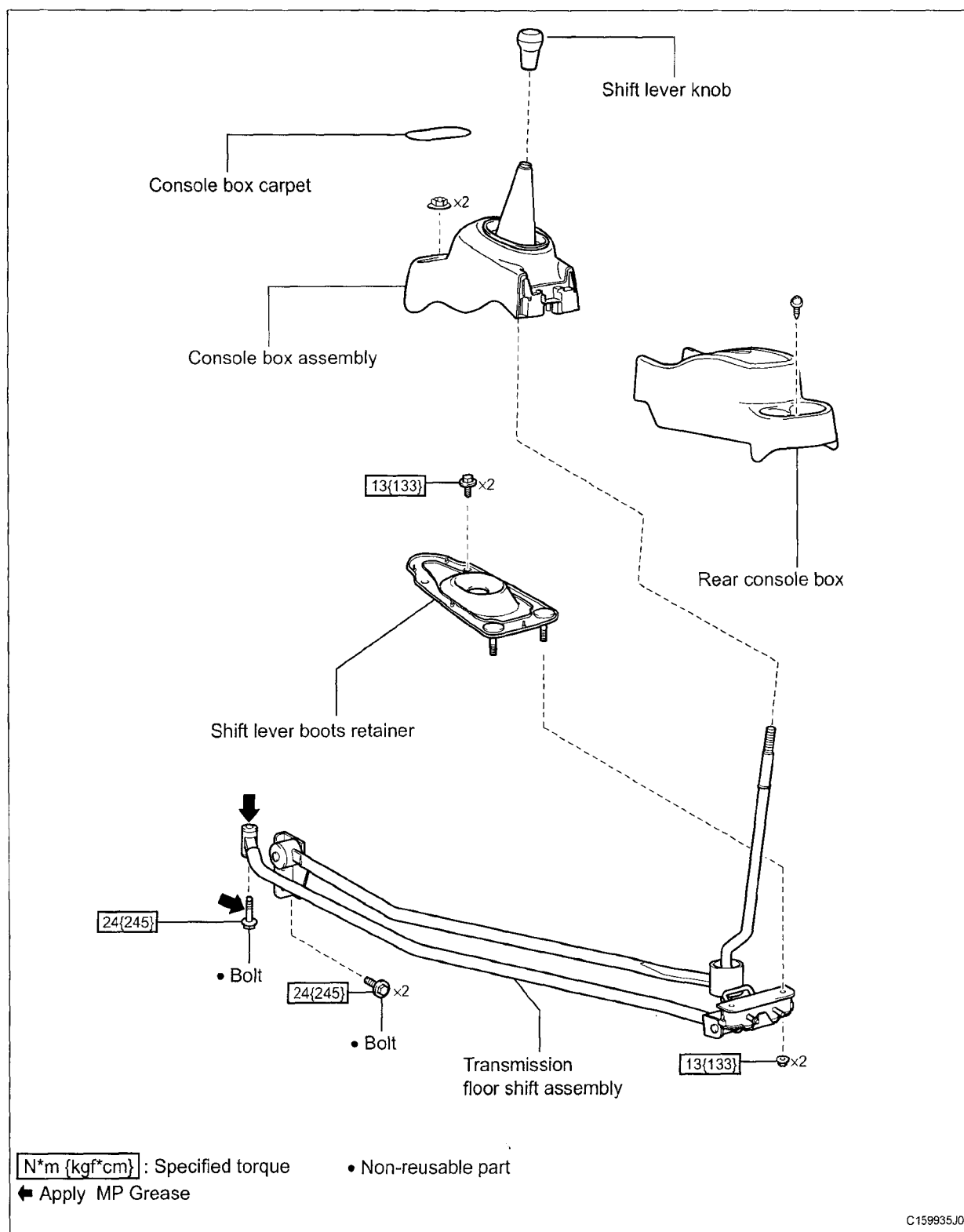


N*m {kgf*cm} : Specified torque

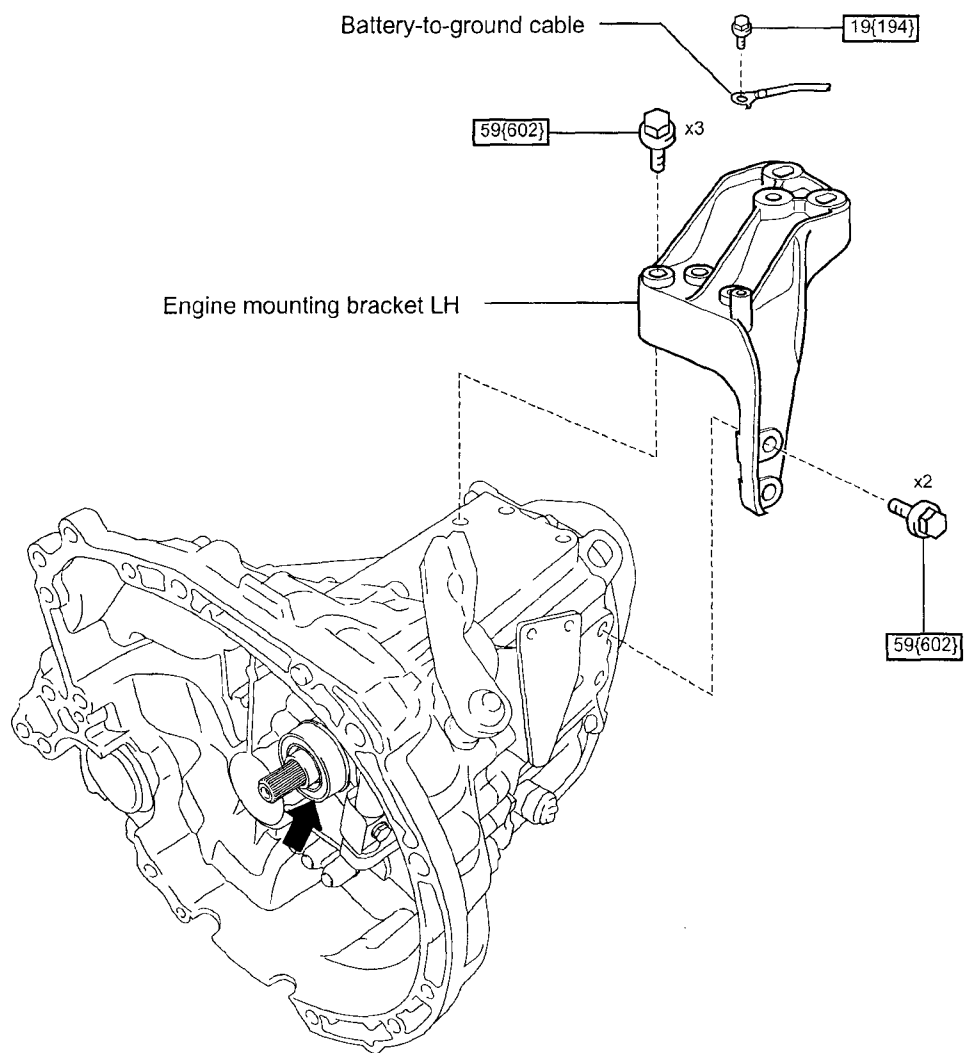
• Non-reusable part

◀ Apply MP Grease

C159921J03

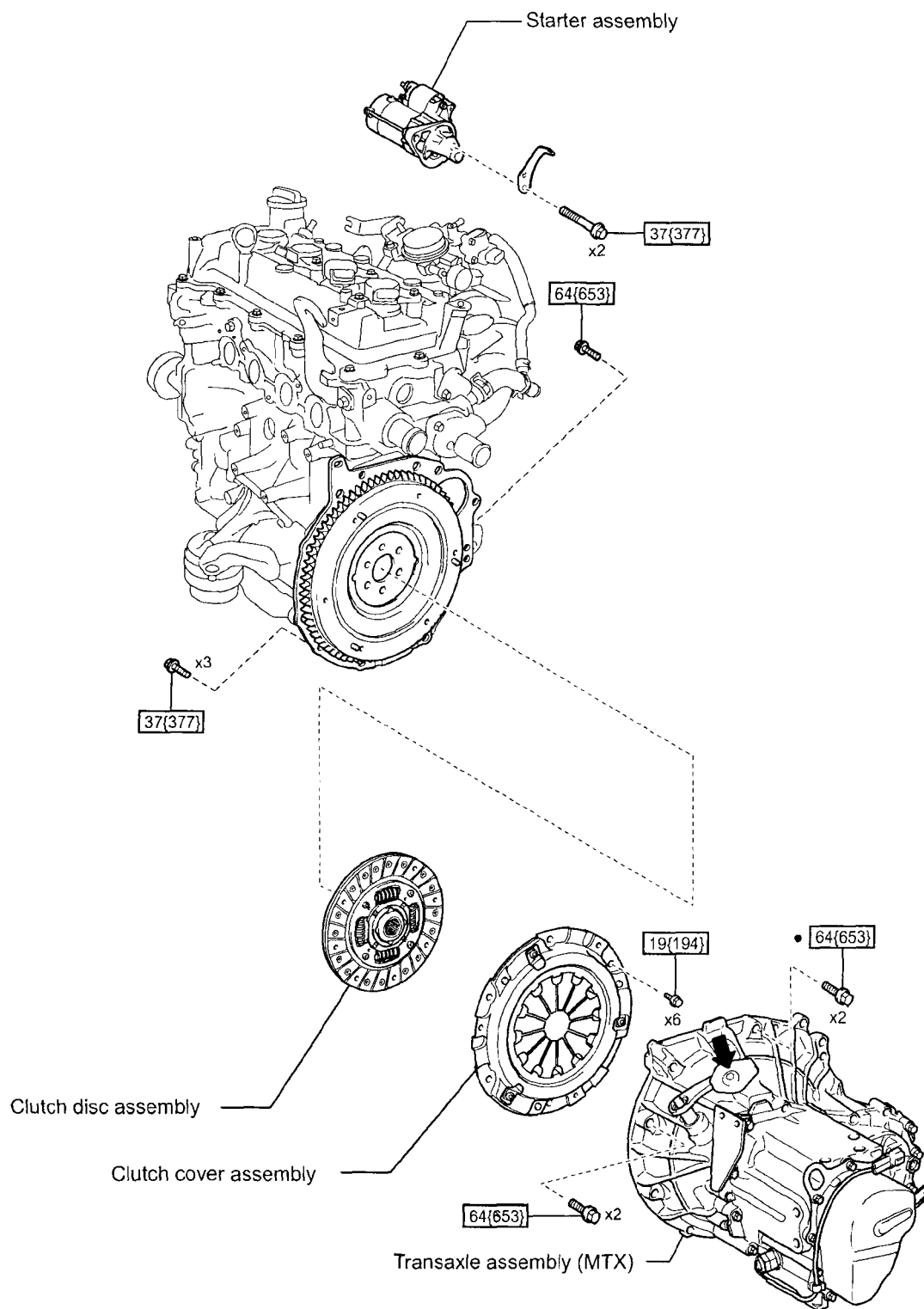


27



[N*m (kgf*cm)] : Specified torque

◀ Apply EP Grease



27

N*m (kgf*cm) : Specified torque

• Non-reusable part

← Apply EP Grease

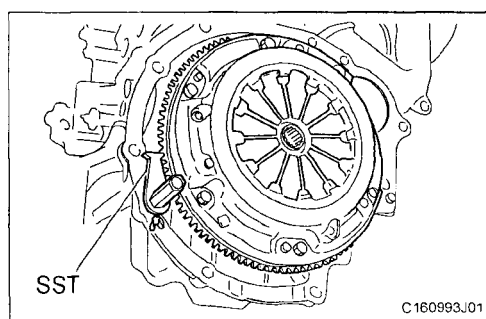
REMOVAL

1. Battery minus terminal disconnection
2. Front tire removal
3. Manual transaxle oil drainage (See page 29-15)
4. Exhaust pipe assembly FR removal (See page 11-15)
5. Propeller with a center bearing shaft assembly removal (See page 35-3)
6. Brake fluid drainage
7. Battery hold down clamp removal (See page 07-113)
8. Radiator reserve tank assembly removal (See page 07-113)
9. Battery cover removal
10. Battery removal
11. Battery tray removal (See page 07-113)
12. Air cleaner cap removal
13. Air cleaner filter element removal
14. Vacuum sensor disconnection (See page 06-140)
15. Vacuum switching valve assembly (with Bracket) disconnection (See page 06-140)
16. Inlet air temperature sensor disconnection (See page 06-140)
17. Precleaner hose removal (See page 06-141)
18. Air cleaner assembly removal (See page 06-141)
19. Wire harness removal (See page 29-15)
20. Clutch release cylinder assembly removal (See page 29-16)
21. Clutch hose disconnection (See page 29-16)
22. Back-up lamp switch connector disconnection (See page 29-16)
23. Starter assembly removal (See page 29-16)
24. Steering column hole cover No. 1 removal (See page 48-15)
25. Steering column assembly disconnection (See page 49-72)
26. Shift lever knob removal (See page 29-59)
27. Rear console box removal (See page 29-59)
28. Console box carpet removal (See page 29-59)
29. Console box assembly removal (See page 29-59)
30. Transmission floor shift assembly removal (See page 29-60)
31. Engine undercover LH removal (See page 07-52)
32. Engine undercover RH removal (See page 07-52)
33. Front stabilizer link assembly LH disconnection (See page 36-8)
34. Front stabilizer link assembly RH removal (See page 36-8)
35. Front stabilizer bar removal (See page 42-16)
36. Front suspension cross member LH removal (See page 07-53)
37. Front suspension cross member RH removal (See page 07-53)
38. Speed sensor FR LH disconnection (See page 36-7)
39. Speed sensor FR RH disconnection (See page 36-7)
40. Front disc brake cylinder assembly LH removal (See page 36-8)
41. Front disc brake cylinder assembly RH removal (See page 36-8)
42. Axle hub nut removal (LH) (See page 36-8)
43. Axle hub nut removal (RH) (See page 36-8)
44. Tie rod end LH disconnection (See page 36-8)
45. Tie rod end RH disconnection (See page 36-9)
46. Front shock absorber assembly LH disconnection (See page 36-9)

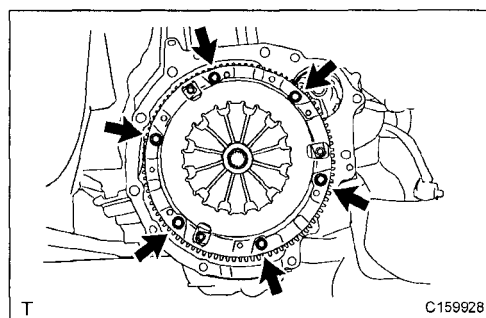
47. Front shock absorber assembly RH disconnection (See page 36-9)
48. Front drive shaft assembly LH removal (See page 36-9)
49. Front drive shaft assembly RH removal (See page 36-9)
50. Steering knuckle LH disconnection (See page 36-9)
51. Steering knuckle RH disconnection (See page 36-9)
52. Front suspension cross member removal (See page 07-119)
53. Engine mounting insulator RR removal (See page 07-119)
54. Transfer assembly removal (See page 07-121)
55. Engine mounting bracket LH removal (See page 29-18)
56. Engine assembly hanging (See page 29-18)
57. Transaxle assembly (MTX) removal (See page 29-19)

58. Clutch cover assembly removal

(1) Put a dowel mark on both the clutch cover assembly and the flywheel.



(2) Use SST to prevent the flywheel from rotating.
SST 09210-87701



(3) Remove 6 bolts and then the clutch cover assembly.

<CAUTION>

Be sure not to drop the clutch disc assembly.

27

59. Clutch disc assembly removal

<CAUTION>

Keep oil and foreign particles off the surfaces of the lining of the clutch disc assembly, the pressure plate, and the flywheel.

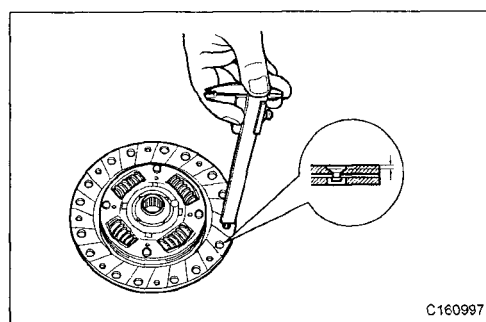
INSPECTION

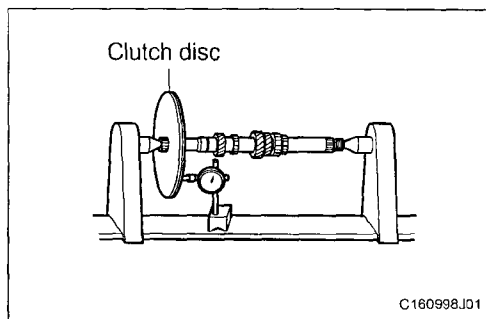
1. Clutch disc assembly check

(1) Check visually for wear, damage, or oil contamination of the clutch disc assembly.

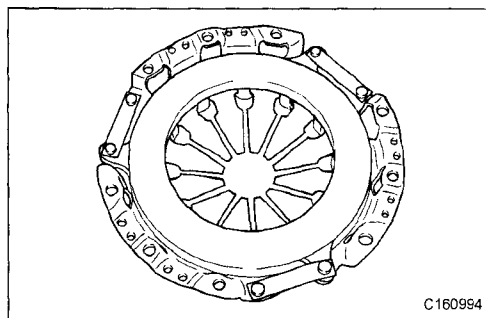
(2) Check for wear of the facing using a vernier caliper.

Limits: Wear 0.4 mm (sinking depth of the rivet)



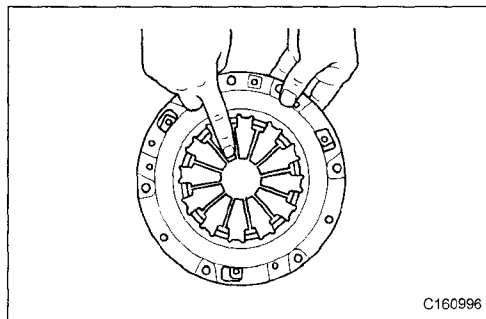


- (3) Attach the clutch disc assembly to a new input shaft and measure runout of the clutch disc assembly.
Limits: Runout of the side surface 1.0 mm

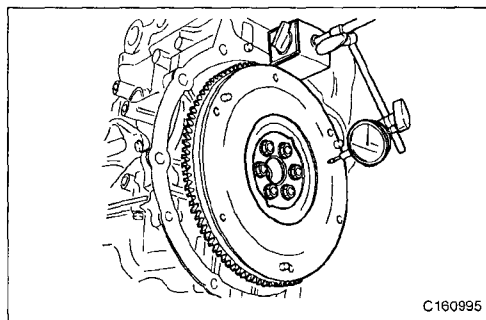


2. Clutch cover assembly check

- (1) Check if there is any streak, crazing, or discoloration on the pressure plate of the clutch cover assembly.

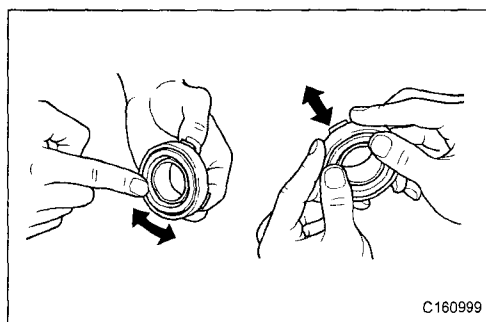


- (2) Check for wear, rusting, or damage of the pressure plate (diaphragm spring finger) of the clutch cover assembly.



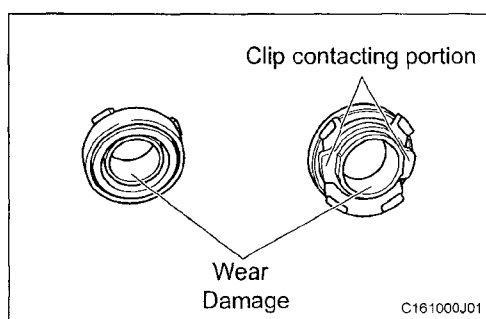
3. Flywheel check

- (1) Clean the flywheel and check for runout.
Limits: Runout 0.10 mm



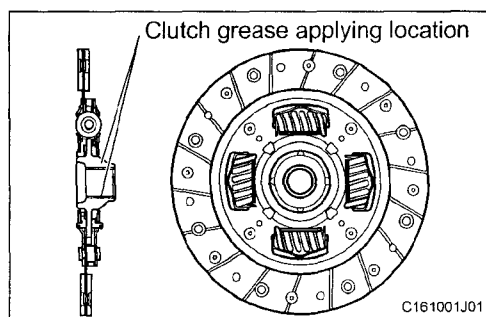
4. Clutch release bearing check

- (1) Rotate the sliding portion of the clutch release bearing (the portion that comes in contact with the clutch cover assembly) to make sure that no abnormal resistance is produced. Push the sliding portion in the direction of rotation to make sure that no abnormal resistance is produced.



- (2) Check for damage or wear of the clutch release bearing. Check for damage or wear of the clip contact portion and sliding portion of the housing.

INSTALLATION

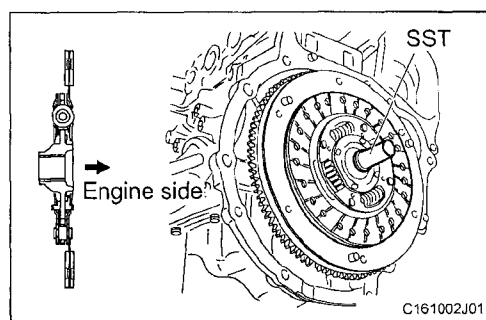


1. Clutch disc assembly installation

- (1) Coat the inner surface of the hub of the clutch disc assembly with a small amount of clutch grease.

<CAUTION>

- > Clutch grease should be applied from the clutch cover assembly side.
- > The coat of clutch grease should be as thin as possible so that excessive grease does not protrude to the flywheel side.



- (2) Use SST to center the clutch disc assembly.

SST 09301-87703

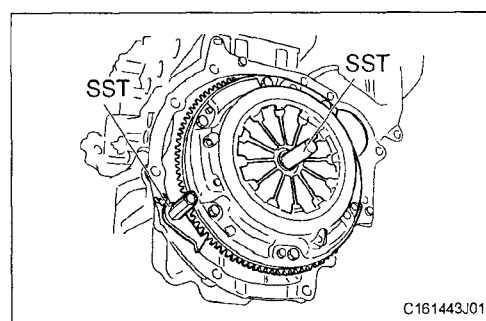
<CAUTION>

- > Keep oil and foreign particles off the surfaces of the lining of the clutch disc assembly, the pressure plate, and the flywheel.
- > Make sure that the installation direction of the clutch disc assembly is correct.

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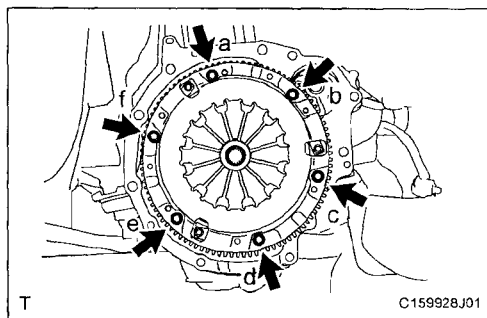
2. Clutch cover assembly installation

- (1) Align the dowel marks and positions of the knock pins on the clutch cover assembly and the flywheel and attach the clutch cover assembly.



- (2) Use SST to prevent the flywheel from rotating.

SST 09210-87701

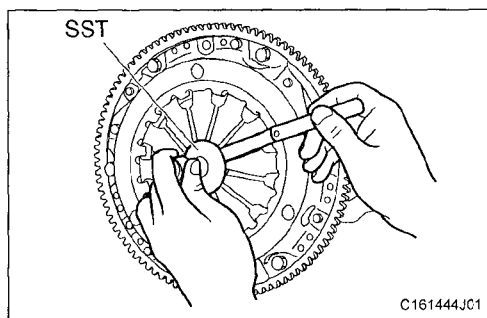


- (3) Temporarily tighten bolts a and c in that order.

<HINT>

Bolt a is to be placed in one of the 3 bolt positions near the knock pin.

- (4) Fully tighten bolts e, a, c, f, b, and d in that order.
Specified value: $T=19N \cdot m$ {194kgf $\cdot$ cm}

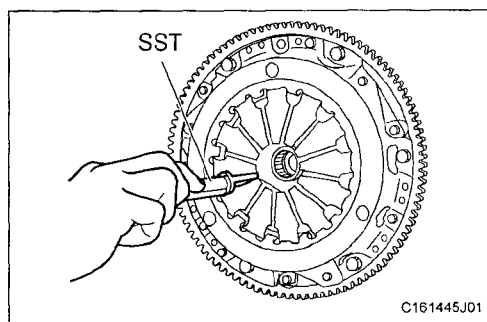


- (5) Check runout (height) of the diaphragm spring of the clutch cover assembly using SST.

Temporarily tighten bolts a and c in that order.

SST 09302-87701

Limits 0.6 mm



- (6) If the limits are exceeded, use SST to adjust runout of the diaphragm spring.

SST 09333-00013

3. Transaxle assembly (MTX) installation (See page 29-19)
4. Engine mounting bracket LH installation (See page 29-20)
5. Transfer assembly installation (See page 07-138)
6. Engine mounting insulator RR installation (See page 07-139)
7. Front suspension cross member installation (See page 07-139)
8. Steering knuckle LH installation (See page 36-15)
9. Steering knuckle RH installation (See page 36-15)
10. Front drive shaft assembly LH installation (See page 36-15)
11. Front drive shaft assembly RH installation (See page 36-15)
12. Front shock absorber assembly LH installation (See page 36-16)
13. Front shock absorber assembly RH installation (See page 36-16)
14. Tie rod end LH installation (See page 36-16)
15. Tie rod end RH installation (See page 36-16)
16. Axle hub nut installation (LH) (See page 36-16)
17. Axle hub nut installation (RH) (See page 36-16)
18. Front disc brake cylinder assembly LH installation (See page 36-16)
19. Front disc brake cylinder assembly RH installation (See page 36-17)
20. Speed sensor FR LH installation (See page 36-17)

21. Speed sensor FR RH installation (See page 36-17)
22. Front suspension cross member LH installation (See page 07-141)
23. Front suspension cross member RH installation (See page 07-141)
24. Front stabilizer bar installation (See page 07-142)
25. Front stabilizer link assembly LH connection (See page 36-17)
26. Front stabilizer link assembly RH connection (See page 36-17)
27. Engine undercover LH installation (See page 07-142)
28. Engine undercover RH installation (See page 07-142)
29. Transmission floor shift assembly installation (See page 29-60)
30. Console box assembly installation (See page 29-61)
31. Console box carpet installation (See page 29-61)
32. Rear console box installation (See page 29-62)
33. Shift lever knob installation (See page 29-62)
34. Steering column assembly connection (See page 49-81)
35. Steering column hole cover No. 1 installation (See page 48-18)
36. Starter assembly installation (See page 29-21)
37. Back-up light switch connector installation (See page 29-21)
38. Clutch hose connection (See page 29-21)
39. Clutch release cylinder assembly installation (See page 29-22)
40. Wire harness connection (See page 29-22)
41. Air cleaner assembly installation (See page 06-149)
42. Precleaner hose installation (See page 06-149)
43. Inlet air temperature sensor connection (See page 06-150)
44. Vacuum switching valve assembly (with Bracket) connection (See page 06-150)
45. Vacuum sensor connection (See page 06-150)
46. Air cleaner filter element installation
47. Air cleaner cap installation
48. Battery tray installation (See page 07-146)
49. Battery installation
50. Battery cover installation
51. Radiator reserve tank assembly installation (See page 12-15)
52. Battery hold down clamp installation (See page 07-146)
53. Temporary tightening of the propeller with a center bearing shaft assembly (See page 35-5)
54. Final tightening of the propeller with a center bearing shaft assembly (See page 35-5)
55. Exhaust pipe assembly FR installation (See page 11-16)
56. Brake fluid replenishment (See page 45-4)
57. Clutch pipeline air bleeding (See page 27-3)
58. Clutch fluid leakage check
59. Brake fluid amount check
60. Manual transaxle oil replenishment (See page 29-23)
61. Front tire installation
Specified value: $T=103N \cdot m$ {1050kgf $\cdot$ cm}
62. Battery minus terminal connection
Specified value: $T=6.4N \cdot m$ {65kgf $\cdot$ cm}
63. Front wheel alignment check · adjustment
(See page 42-5)
64. Test mode check (Speed sensor circuit)
(See page 44-15)