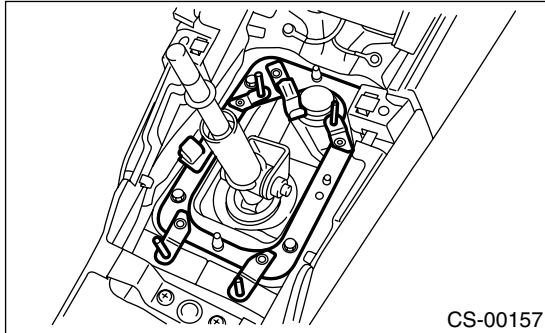


7. MT Gear Shift Lever

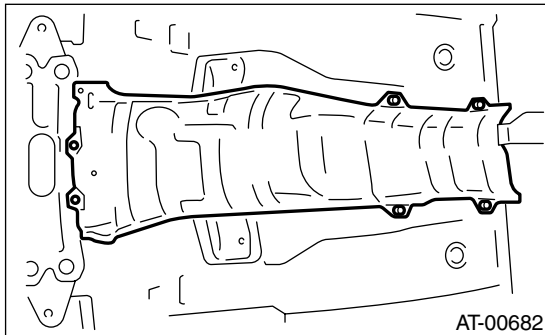
A: REMOVAL

1. 5MT

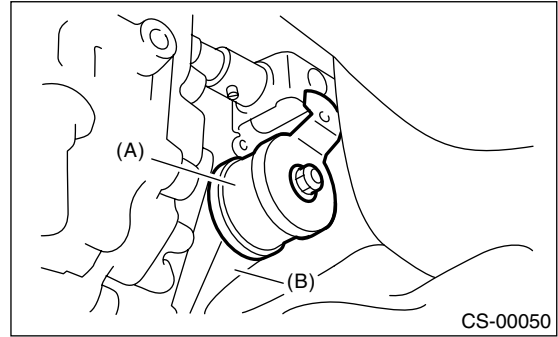
- 1) Set the vehicle on a lift.
- 2) Disconnect the negative cable from battery.
- 3) Remove the gear shift knob.
- 4) Remove the console box. <Ref. to EI-43, REMOVAL, Console Box.>
- 5) Remove the plate assembly from body.



- 6) Lift-up the vehicle.
- 7) Remove the rear exhaust pipe and muffler.
SOHC model
<Ref. to EX(H4SO)-8, REMOVAL, Rear Exhaust Pipe.> and <Ref. to EX(H4SO)-9, REMOVAL, Muffler.>
DOHC turbo model
<Ref. to EX(H4DOTC)-13, REMOVAL, Rear Exhaust Pipe.> and <Ref. to EX(H4DOTC)-14, REMOVAL, Muffler.>
- 8) Remove the heat shield cover. (If equipped)

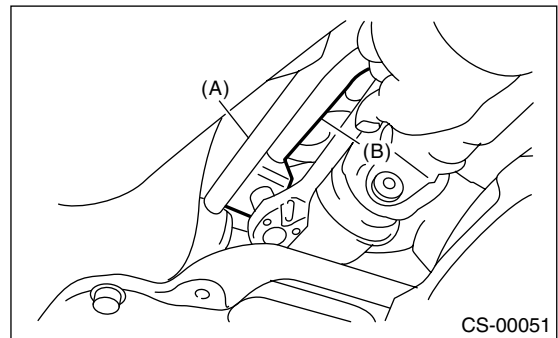


- 9) Remove the stay from transmission bracket.



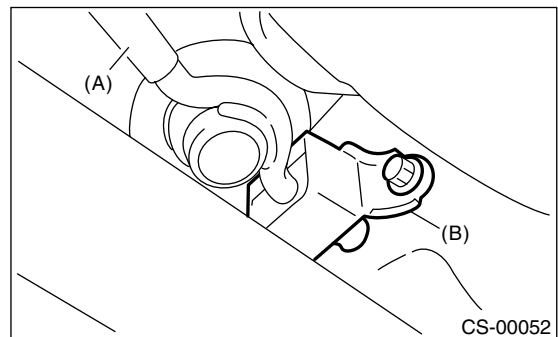
- (A) Stay
- (B) Transmission bracket

- 10) Remove the rod from joint.



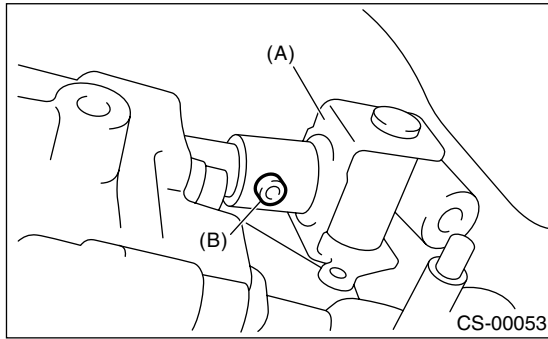
- (A) Stay
- (B) Rod

- 11) Remove the cushion rubber from body.



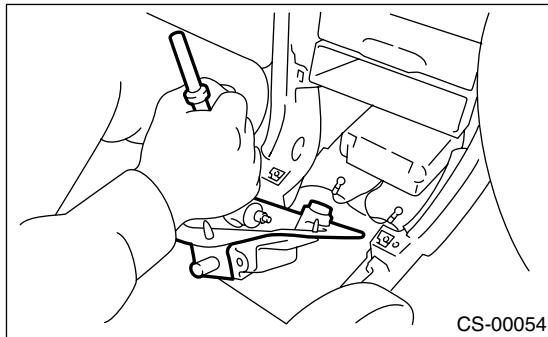
- (A) Stay
- (B) Cushion rubber

12) Extract the spring pin, and then remove the joint.



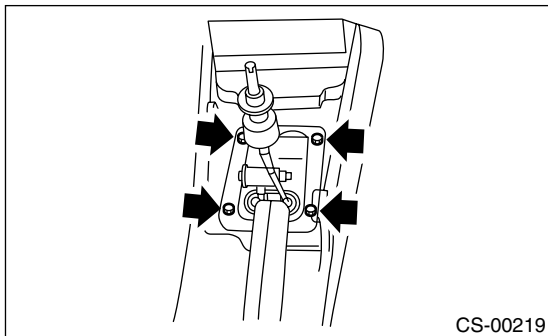
- (A) Joint
- (B) Spring pin

13) Lower the vehicle.
14) Remove the gear shift lever.



2. 6MT

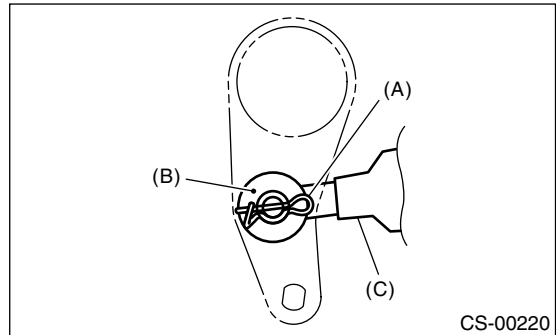
- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.
- 3) Remove the gear shift knob.
- 4) Remove the console box front. <Ref. to EI-43, REMOVAL, Console Box.>
- 5) Remove the boot plate from body.



- 6) Lift-up the vehicle.
- 7) Remove the under cover.
- 8) Remove the rear exhaust pipe and muffler. <Ref. to EX(H4DOTC)-13, REMOVAL, Rear Exhaust Pipe.>, <Ref. to EX(H4DOTC)-14, REMOVAL, Muffler.>

9) Remove the crossmember. <Ref. to 6MT-33, REMOVAL, Transmission Mounting System.>

10) Remove the snap pin and washer, and then remove the reverse check cable from reverse check lever.

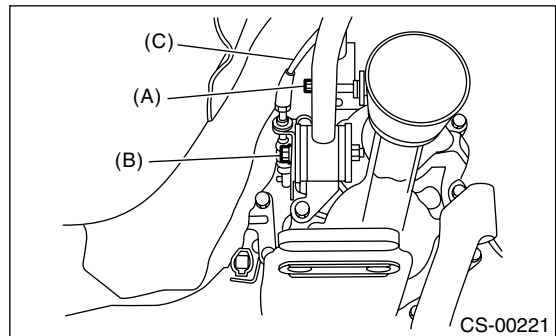


- (A) Snap pin
- (B) Washer
- (C) Reverse check cable

11) Move the transmission to right side, and then remove the joint COMPL, stay bolt and reverse check cable.

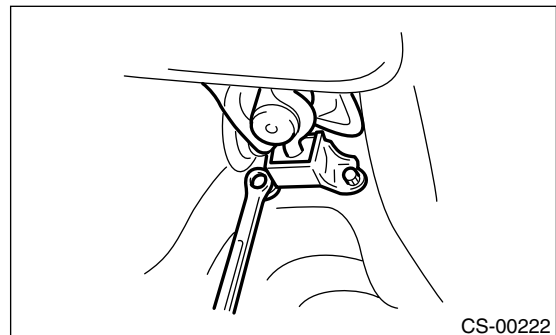
NOTE:

If the transmission is not moved, the joint COMPL and stay bolt will contact body and damage may occur.



- (A) Joint COMPL bolt
- (B) Stay bolt
- (C) Reverse check cable

12) Remove the cushion rubber from body.



MT GEAR SHIFT LEVER

CONTROL SYSTEMS

- 13) Lower the vehicle.
- 14) Remove the gear shift lever.

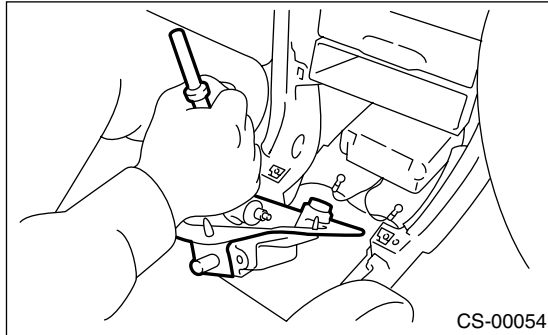
B: INSTALLATION

1. 5MT

- 1) Install the joint to the transmission and secure with the spring pin.
- 2) Insert gear shift lever from room side.

NOTE:

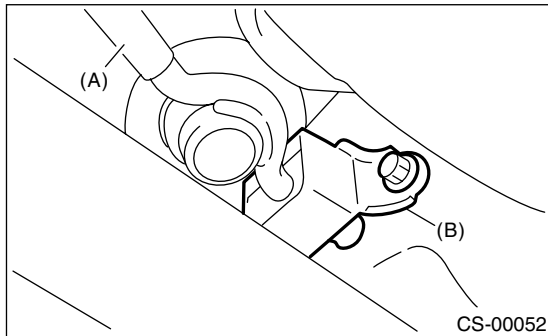
After inserting rod and stay, temporarily put them onto transmission mount.



- 3) Lift-up the vehicle.
- 4) Mount the cushion rubber on body.

Tightening torque:

18 N-m (1.8 kgf-m, 13.0 ft-lb)

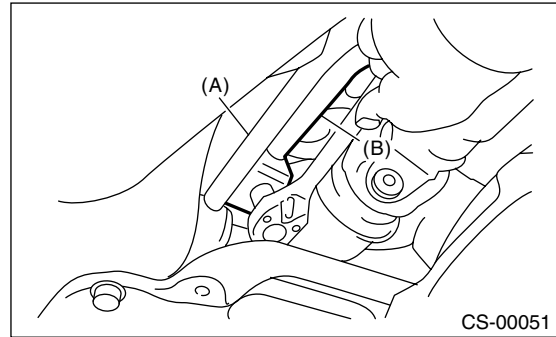


- (A) Stay
- (B) Cushion rubber

- 5) Connect the rod to the joint.

Tightening torque:

18 N-m (1.8 kgf-m, 13.0 ft-lb)

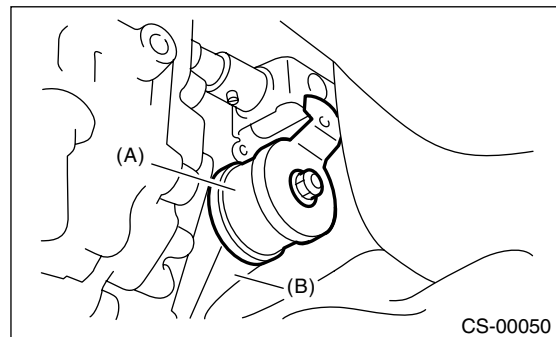


- (A) Stay
- (B) Rod

- 6) Connect the stay to transmission bracket.

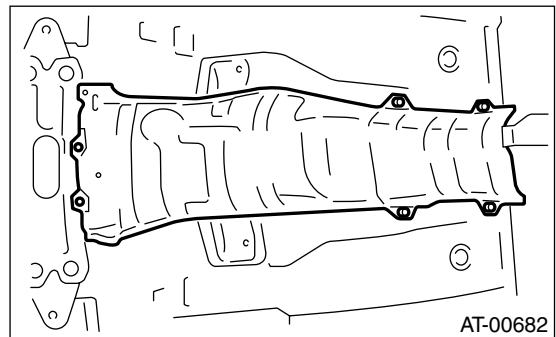
Tightening torque:

18 N-m (1.8 kgf-m, 13.0 ft-lb)



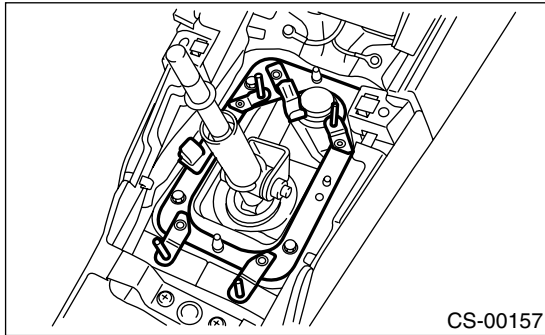
- (A) Stay
- (B) Transmission bracket

- 7) Install the heat shield cover. (If equipped)



- 8) Install the rear exhaust pipe and muffler.
 SOHC model
 <Ref. to EX(H4SO)-8, INSTALLATION, Rear Exhaust Pipe.> and <Ref. to EX(H4SO)-9, INSTALLATION, Muffler.>
 DOHC turbo model
 <Ref. to EX(H4DOTC)-13, INSTALLATION, Rear Exhaust Pipe.> and <Ref. to EX(H4DOTC)-14, INSTALLATION, Muffler.>
 9) Install the plate assembly to body.

Tightening torque:
7.5 N·m (0.76 kgf·m, 5.5 ft·lb)



- 10) Install console box. <Ref. to EI-43, INSTALLATION, Console Box.>

2. 6MT

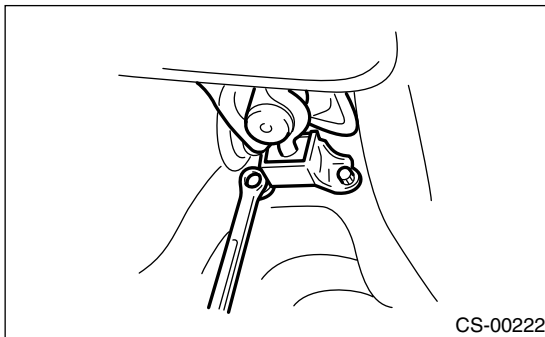
- 1) Insert the gear shift lever from room side.

NOTE:

After inserting the rod and stay, temporarily put them onto transmission mount.

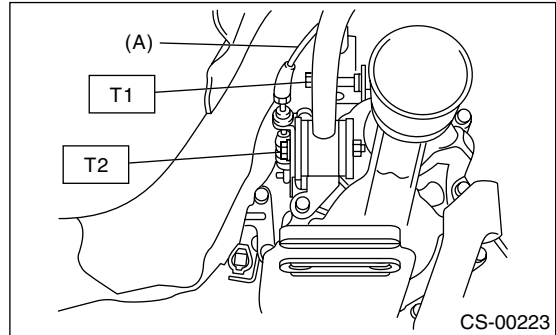
- 2) Mount the cushion rubber on body.

Tightening torque:
18 N·m (1.8 kgf·m, 13.0 ft·lb)



- 3) Move the transmission to right side, and then install the joint COMPL and stay.

Tightening torque:
T1: 11.8 N·m (1.2 kgf·m, 8.7 ft·lb)
T2: 32 N·m (3.3 kgf·m, 23.6 ft·lb)

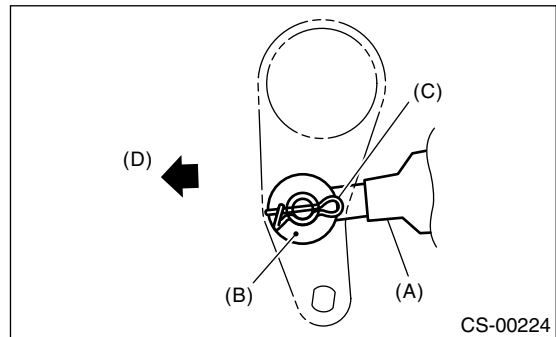


(A) Reverse check cable

- 4) Install the crossmember. <Ref. to 6MT-33, INSTALLATION, Transmission Mounting System.>
 5) Install the reverse check cable end, washer and snap pin to reverse check lever.

NOTE:

- Take care to install the snap pin in proper direction.
- Conduct the adjustment of reverse check cable before installation. <Ref. to CS-48, ADJUSTMENT, Reverse Check Cable.>



(A) Reverse check cable
 (B) Washer
 (C) Snap pin
 (D) Front side

- 6) Install the rear exhaust pipe and muffler. <Ref. to EX(H4DOTC)-13, INSTALLATION, Rear Exhaust Pipe.>, <Ref. to EX(H4DOTC)-14, INSTALLATION, Muffler.>
 7) Install the under cover.

MT GEAR SHIFT LEVER

CONTROL SYSTEMS

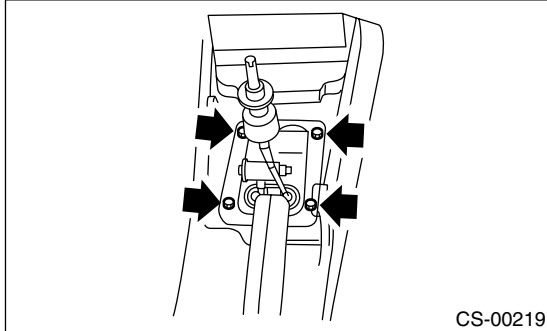
8) Install the boot plate.

NOTE:

Install the inner boot without any twist.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)



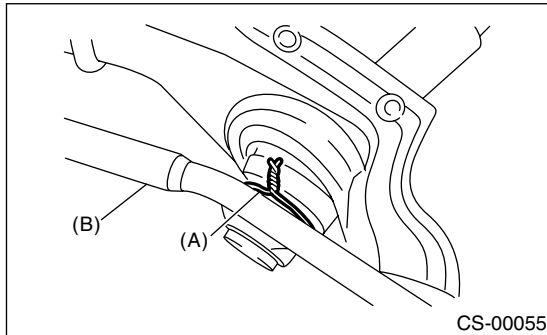
9) Install the console box. <Ref. to EI-43, INSTALLATION, Console Box.>

10) Check that the gear shift is correctly shifted to each gear.

C: DISASSEMBLY

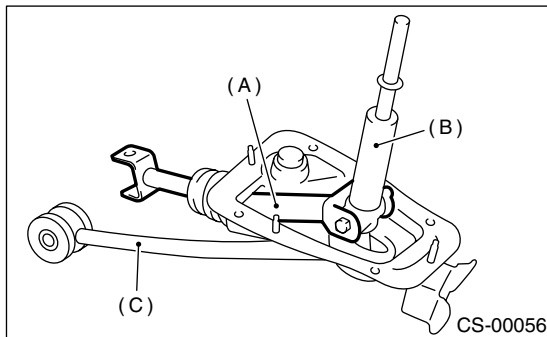
1. 5MT

1) Disassemble the lock wire.



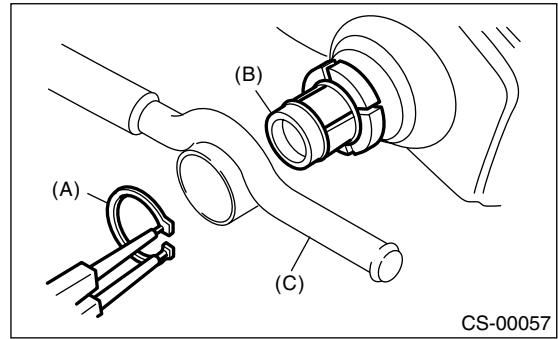
- (A) Lock wire
- (B) Stay

2) Remove the rod from lever.



- (A) Rod
- (B) Lever
- (C) Stay

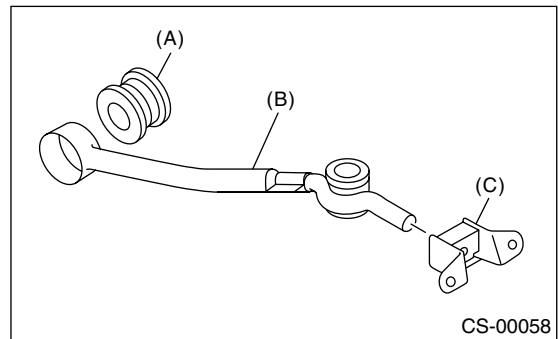
3) Remove the snap ring from bushing B, and then disconnect the stay.



- (A) Snap ring
- (B) Bushing B
- (C) Stay

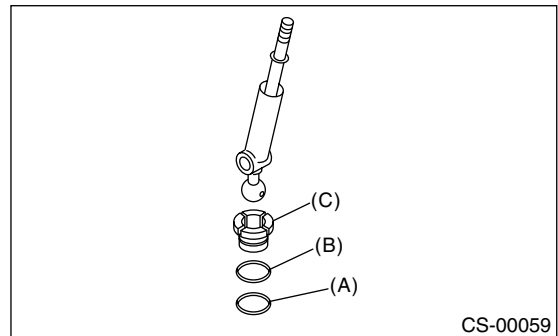
4) Remove the boot from gear shift lever.

5) Remove the bushing and cushion rubber from stay.



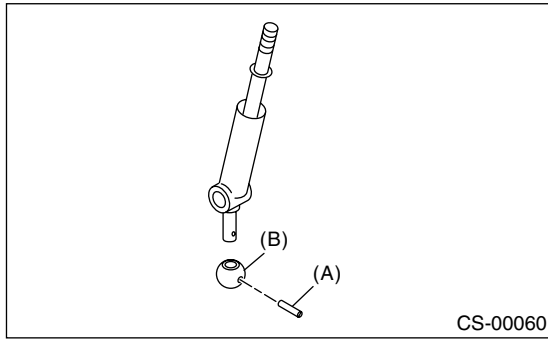
- (A) Bushing
- (B) Stay
- (C) Cushion rubber

6) Remove O-ring, and then disconnect the bushing B.



- (A) O-ring
- (B) O-ring
- (C) Bushing B

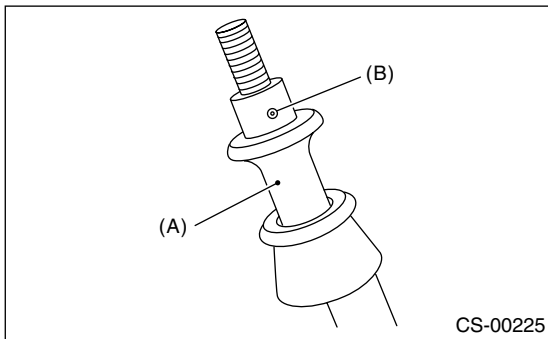
7) Draw out the spring pin, and then remove the bushing A from gear shift lever.



- (A) Spring pin
- (B) Bushing A

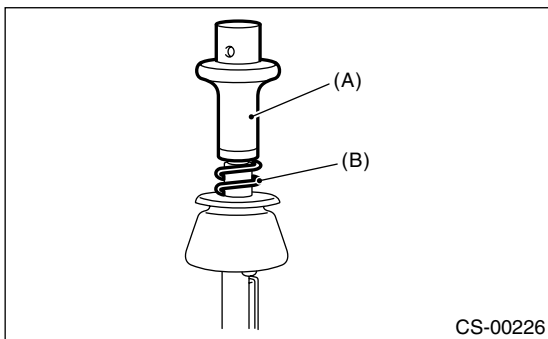
2. 6MT

1) Remove the spring pin from slider.



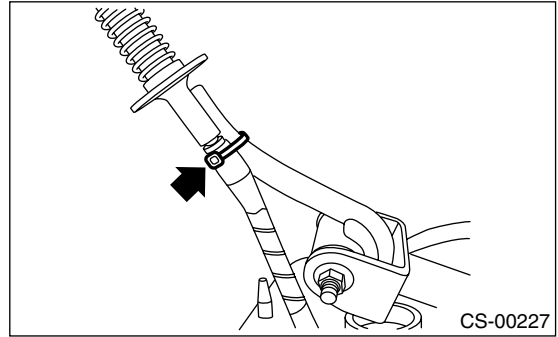
- (A) Slider
- (B) Spring pin

2) Remove the slider and spring.

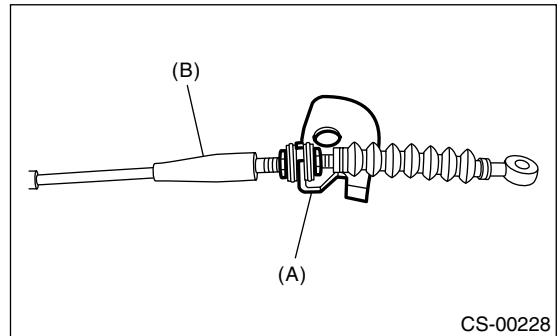


- (A) Slider
- (B) Spring

3) Cut the band clip.

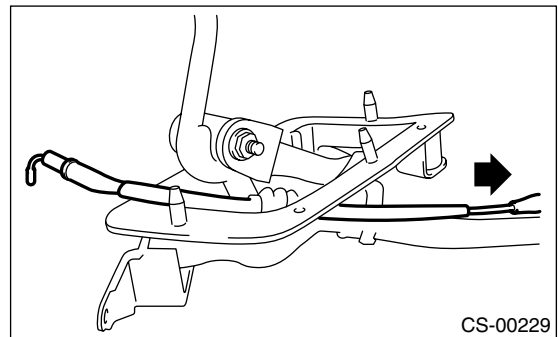


4) Remove the reverse check cable from cable plate.

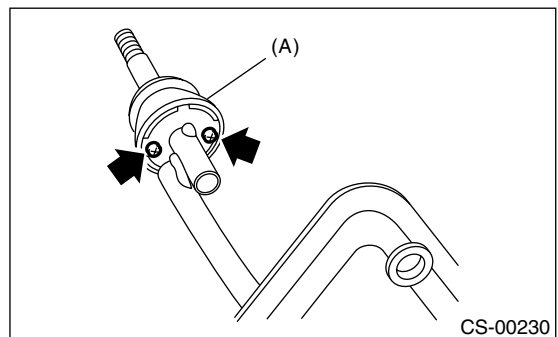


- (A) Cable plate
- (B) Reverse check cable

5) Remove the reverse check cable from gear shift assembly.



6) Remove the holder and spring seat.



- (A) Holder

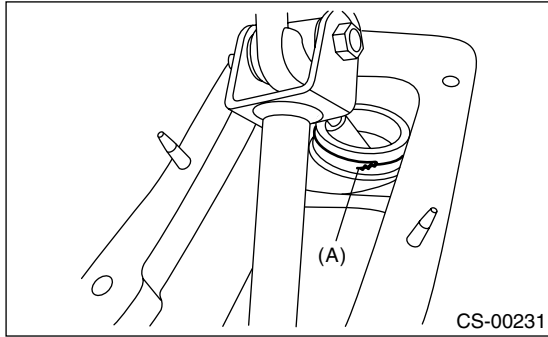
MT GEAR SHIFT LEVER

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7) Disassemble the lock wire.

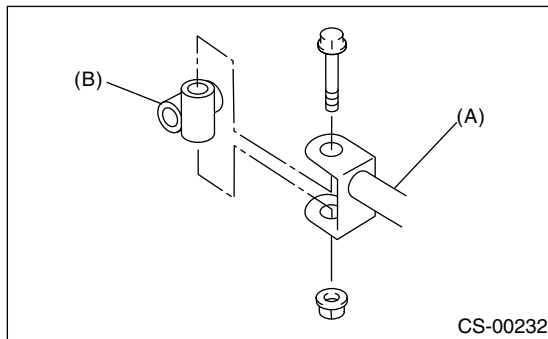
NOTE:

Do not reuse the lock wire.



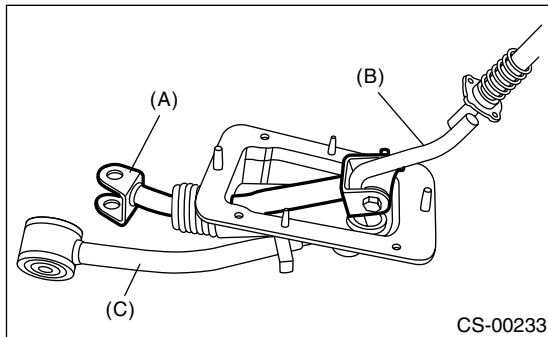
(A) Lock wire

8) Remove the boss from rod.



(A) Rod
(B) Boss

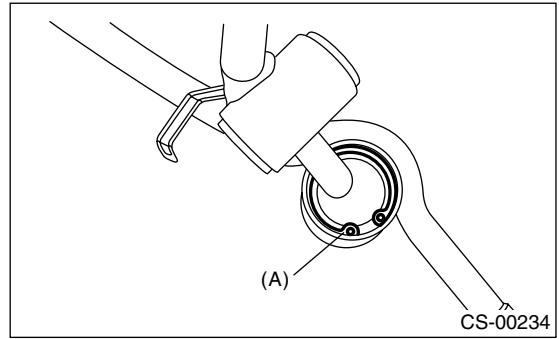
9) Remove the rod from lever.



(A) Rod
(B) Lever
(C) Stay

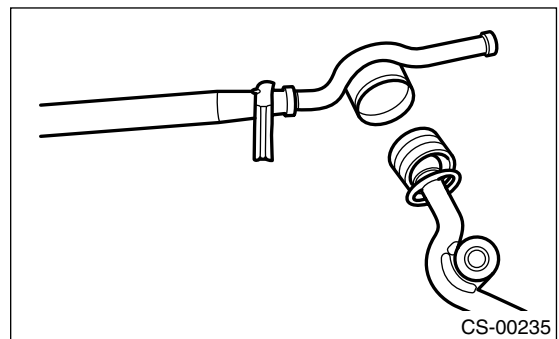
10) Separate the rod and inner boot.

11) Remove the snap ring from stay.

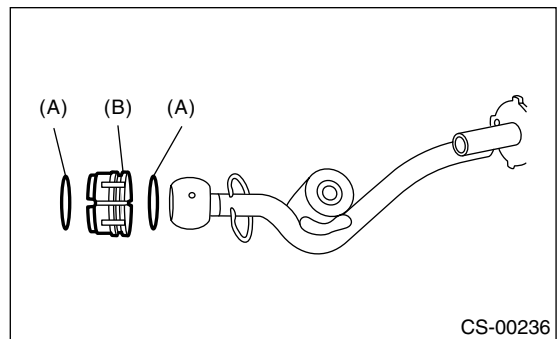


(A) Snap ring

12) Separate the gear shift lever and stay.

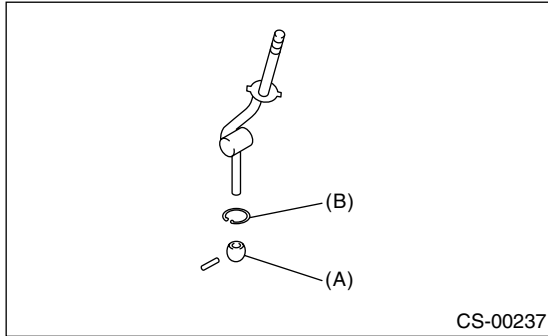


13) Remove the boot and bush from gear shift lever.



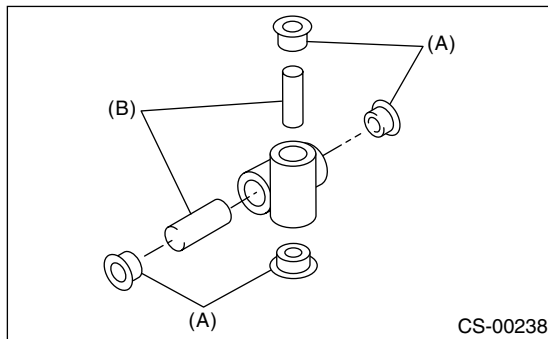
(A) O-ring
(B) Bush

14) Remove the spring pin, and then remove the bush and snap ring.



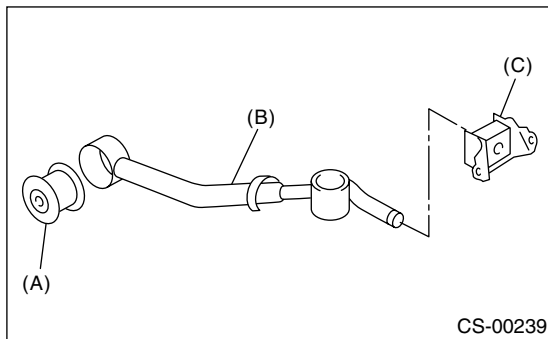
- (A) Bush
- (B) Snap ring

15) Remove the bush and spacer from boss.



- (A) Bush
- (B) Spacer

16) Remove the bush and cushion rubber from stay.

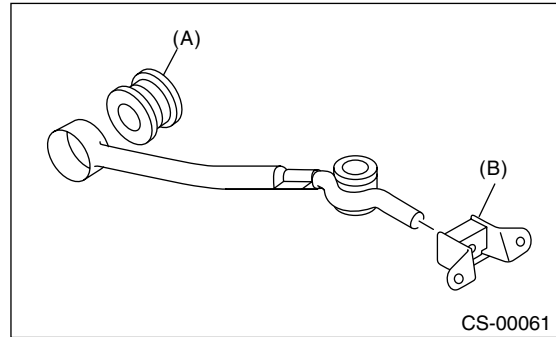


- (A) Bush
- (B) Stay
- (C) Cushion rubber

D: ASSEMBLY

1. 5MT

- 1) Clean all parts before assembly.
- 2) Mount the bushing and cushion rubber on the stay.

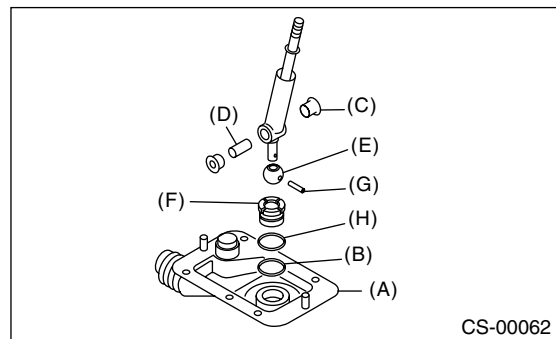


- (A) Bushing
- (B) Cushion rubber

3) Mount each part; boot, O-ring, bushing A, spacer, bushing B, bushing and spring pin on the gear shift lever.

NOTE:

- Always use new O-rings.
- Apply grease [SUNLIGHT 2 (Part No. 003602010 or equivalent)] to the inner and side surfaces of the bushing when installing the spacer.



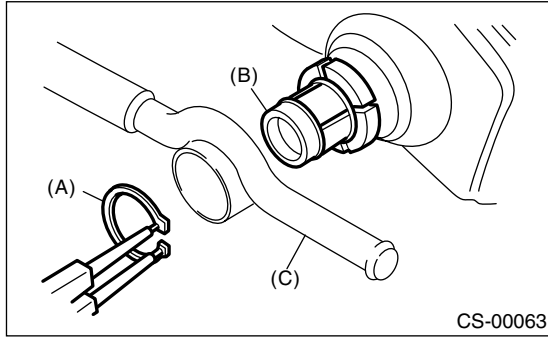
- (A) Boot
- (B) O-ring
- (C) Bushing
- (D) Spacer
- (E) Bushing A
- (F) Bushing B
- (G) Spring pin
- (H) O-ring

4) Insert the gear shift lever into the boot hole.

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5) Install the snap ring and stay to bushing B.

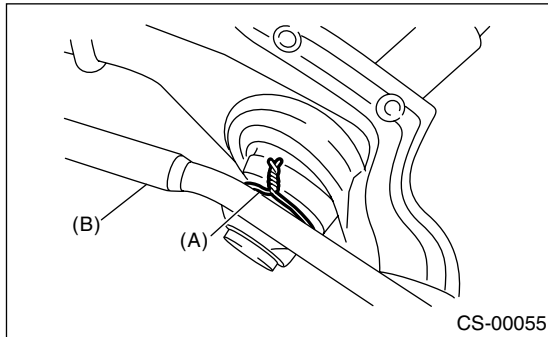


- (A) Snap ring
- (B) Bushing B
- (C) Stay

6) Tighten with lock wire to the extent that the boot will not come off.

NOTE:

Always use new lock wire.



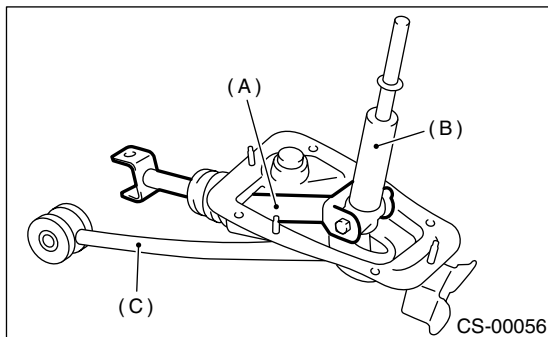
- (A) Lock wire
- (B) Stay

7) Insert the rod into the boot hole.

8) Connect rod to lever.

Tightening torque:

11.8 N·m (1.2 kgf-m, 8.7 ft-lb)



- (A) Rod
- (B) Lever
- (C) Stay

9) Check the swing torque of rod in relation to the gear shift lever.

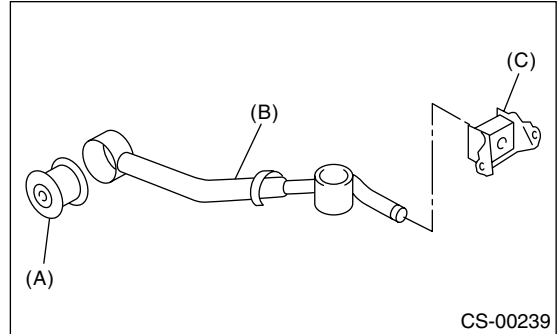
10) Check that there is no excessive play and that parts move smoothly.

2. 6MT

NOTE:

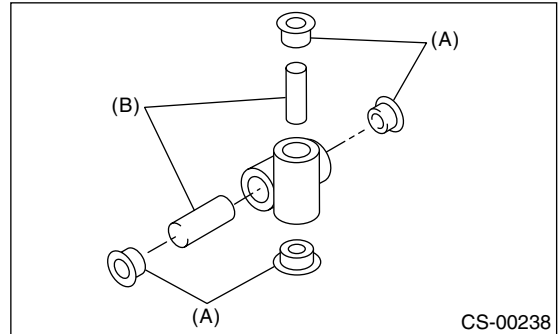
- Clean all parts before assembly.
- Apply NIGTIGHT LYW No.2 grease or equivalent to each parts.

1) Mount the bush and cushion rubber on the stay.



- (A) Bush
- (B) Stay
- (C) Cushion rubber

2) Install the bush and spacer to boss.

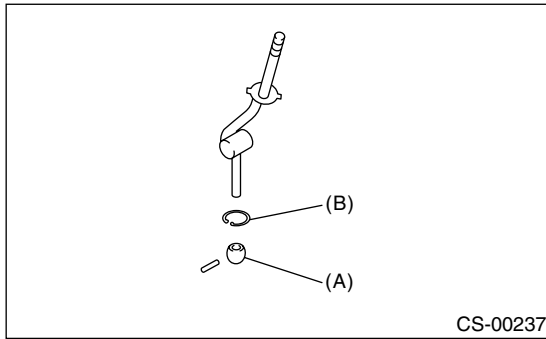


- (A) Bush
- (B) Spacer

3) Install the snap ring to gear shift lever, and then install the bush.

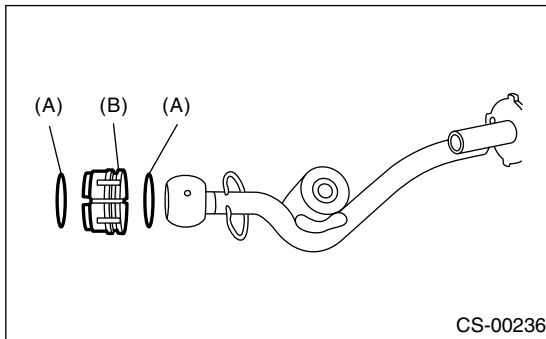
NOTE:

Apply grease to the bush.



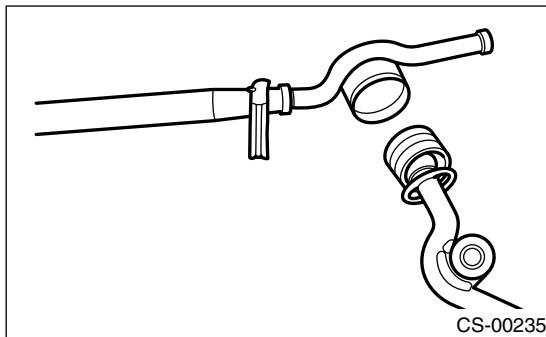
- (A) Bush
- (B) Snap ring

4) Apply grease to the bush and O-ring, and then install to the gear shift lever.

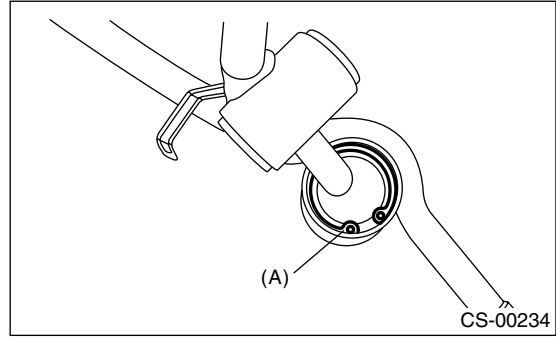


- (A) O-ring
- (B) Bush

5) Apply sufficient grease into the boss, and then install the gear shift lever to stay.



6) Install the washer and snap ring.

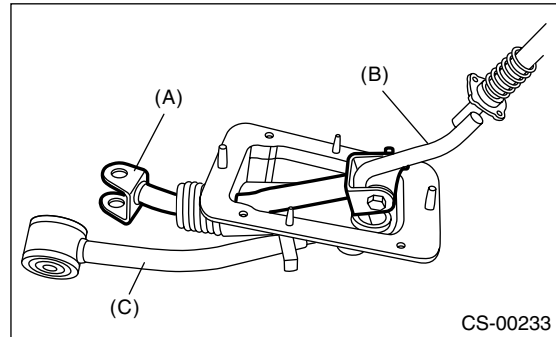


- (A) Snap ring

7) Insert the gear shift lever and rod into boot hole.
8) Install the rod.

Tightening torque:

11.8 N·m (1.2 kgf·m, 8.7 ft·lb)

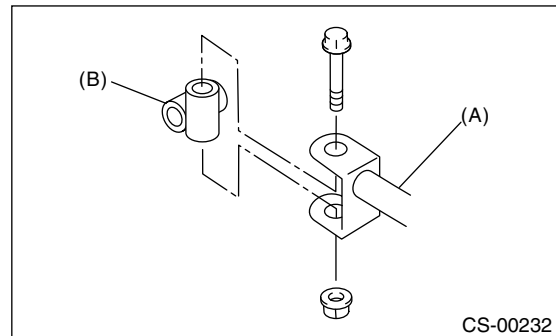


- (A) Rod
- (B) Lever
- (C) Stay

9) Install the boss to rod.

Tightening torque:

11.8 N·m (1.2 kgf·m, 8.7 ft·lb)

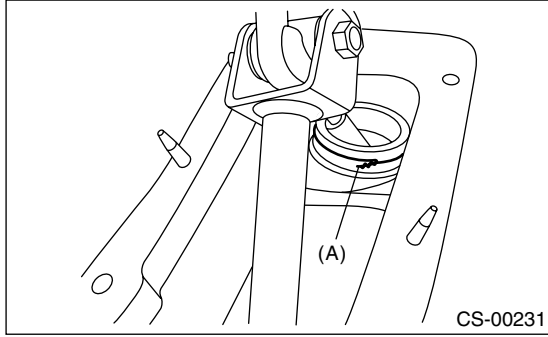


- (A) Rod
- (B) Boss

MT GEAR SHIFT LEVER

CONTROL SYSTEMS

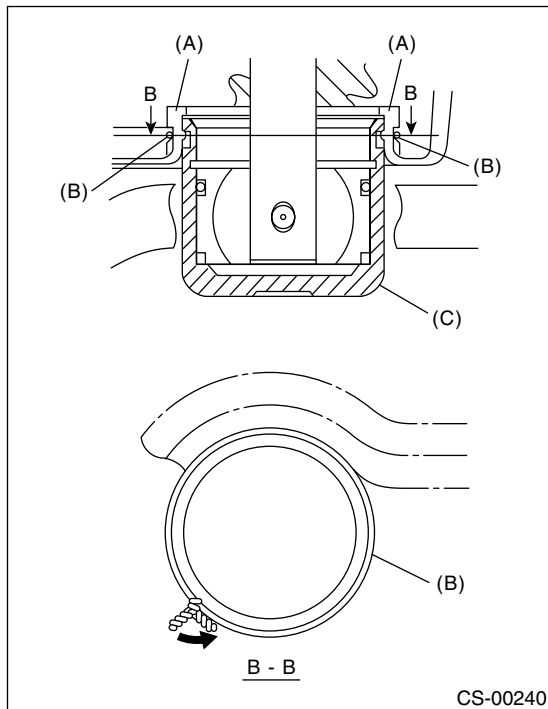
10) Install a new lock wire.



(A) Lock wire

NOTE:

- Install the lock wire to the stay groove.
- Bend the extra wire to same direction of lock wire winding.

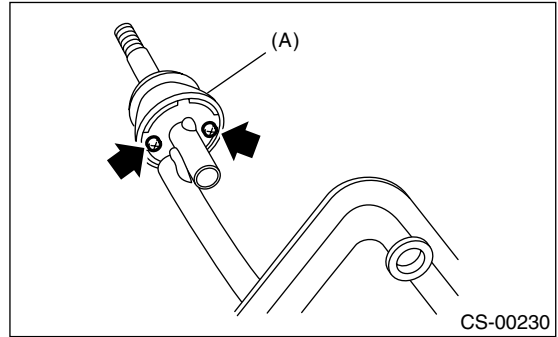


(A) Inner boot
(B) Lock wire
(C) Stay

11) Install the holder.

Tightening torque:

1.3 N·m (0.13 kgf·m, 0.96 ft·lb)

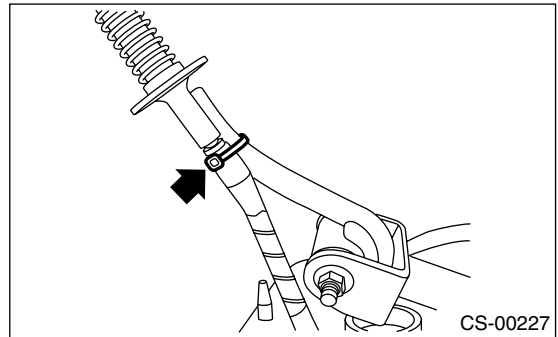


(A) Holder

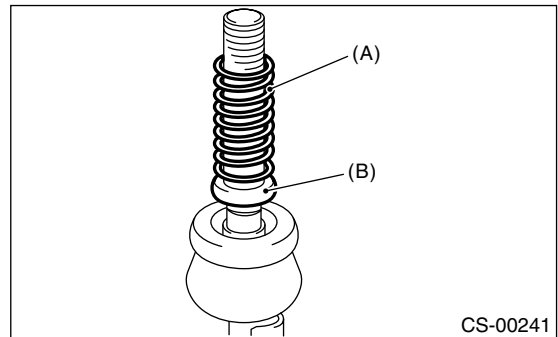
12) Insert the reverse check cable into boot hole.
13) Insert the reverse check cable into gear shift assembly, and fix with band clip.

NOTE:

- Cut off the extra band clip.
- Make sure that the reverse check cable is inserted into gear shift lever assembly without any clearance.



14) Install the seat cushion and spring.

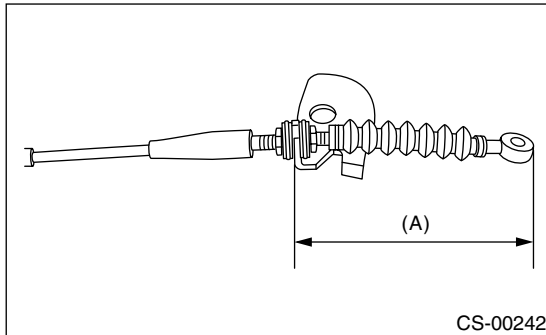


(A) Spring
(B) Seat cushion

15) Adjust the length between end of cable plate and reverse check cable to 84 mm (3.31 in), and then tighten the lock nut.

Tightening torque:

6 N·m (0.6 kgf·m, 4.4 ft-lb)

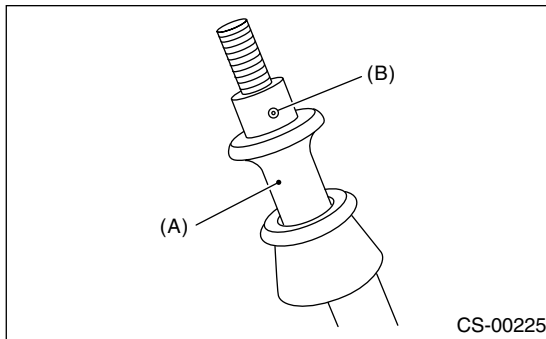


(A) 84 mm (3.31 in)

16) Fix the slider and reverse check cable end with spring pin.

NOTE:

Apply grease to the sliding part of slider.



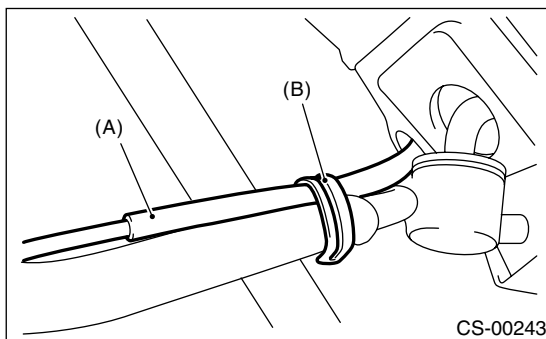
(A) Slider

(B) Spring pin

17) Fix the reverse check cable to clip of stay.

NOTE:

Install the reverse check cable to upper side of stay.



(A) Reverse check cable

(B) Clip

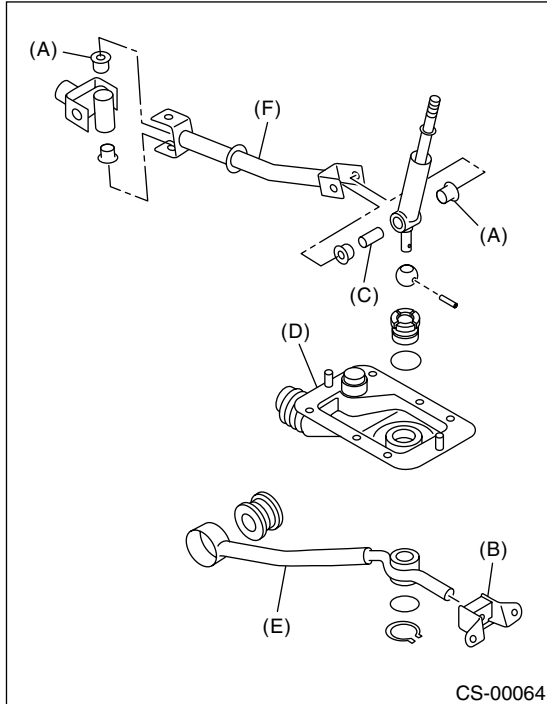
MT GEAR SHIFT LEVER

CONTROL SYSTEMS

E: INSPECTION

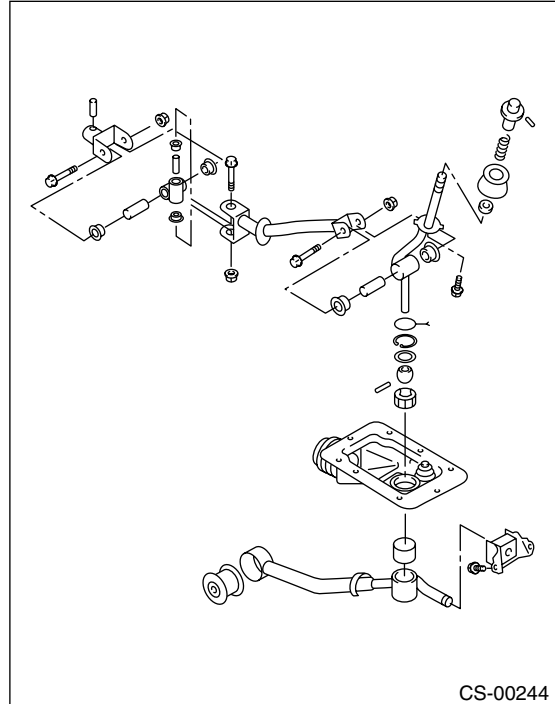
1) Check each part (bushing, cushion rubber, spacer, boot, stay and rod, etc.) for deformation, damage and wear. Repair or replace any defective part. Determine defective parts by comparing with new parts.

• 5MT



- (A) Bushing
- (B) Cushion rubber
- (C) Spacer
- (D) Boot
- (E) Stay
- (F) Rod

• 6MT

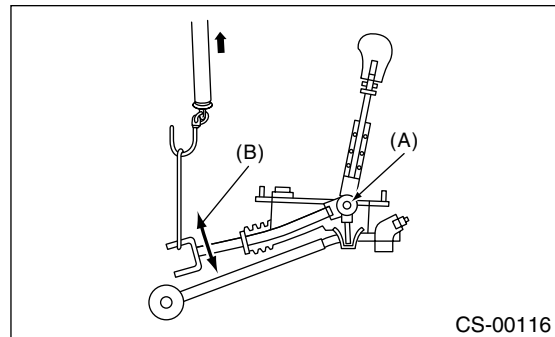


2) Check the swing torque of the rod in relation of the gear shift lever.

If the torque exceeds the specification, replace the bushing or retighten the nuts.

Swing torque:

3.7 N (0.38 kgf, 0.84 lb) or less



- (A) Center of rotation
- (B) Swing torque