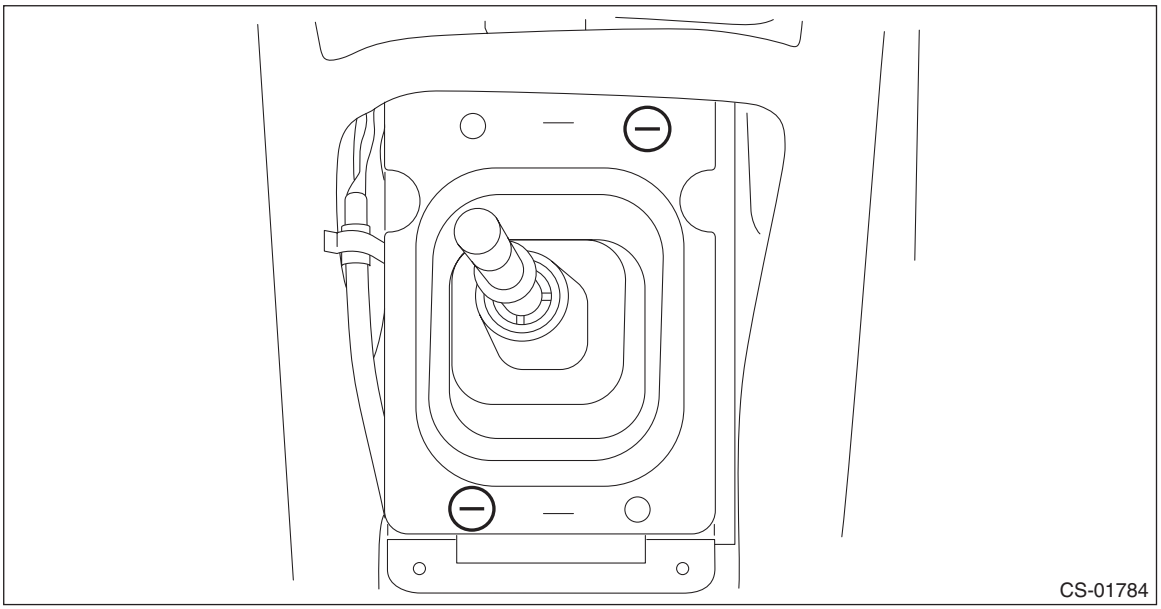
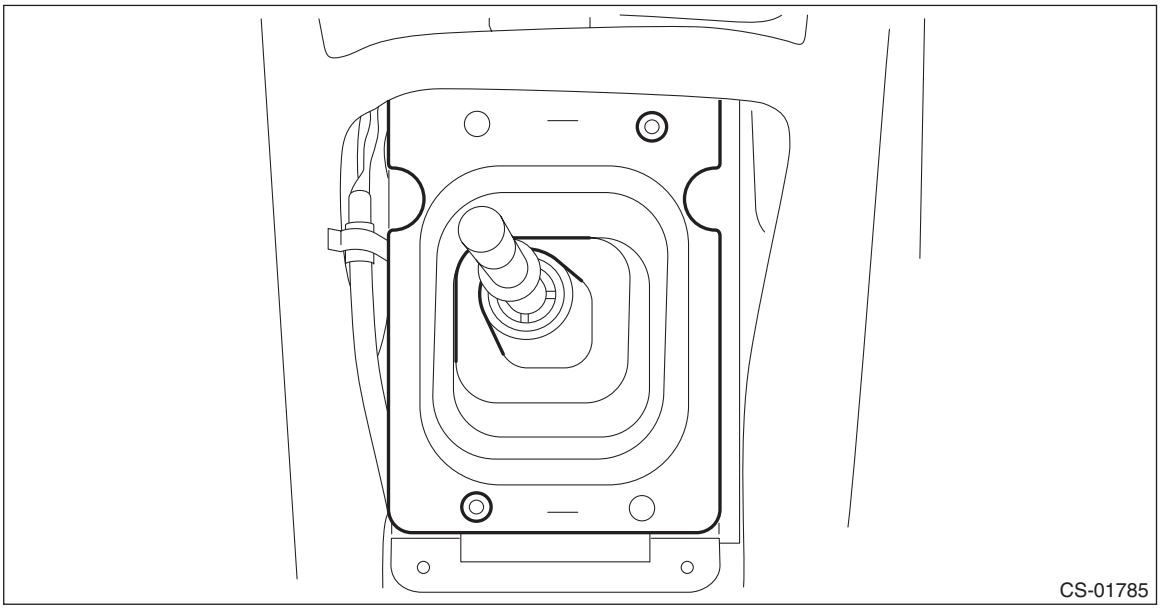
10.Reverse Check Cable

A: REMOVAL

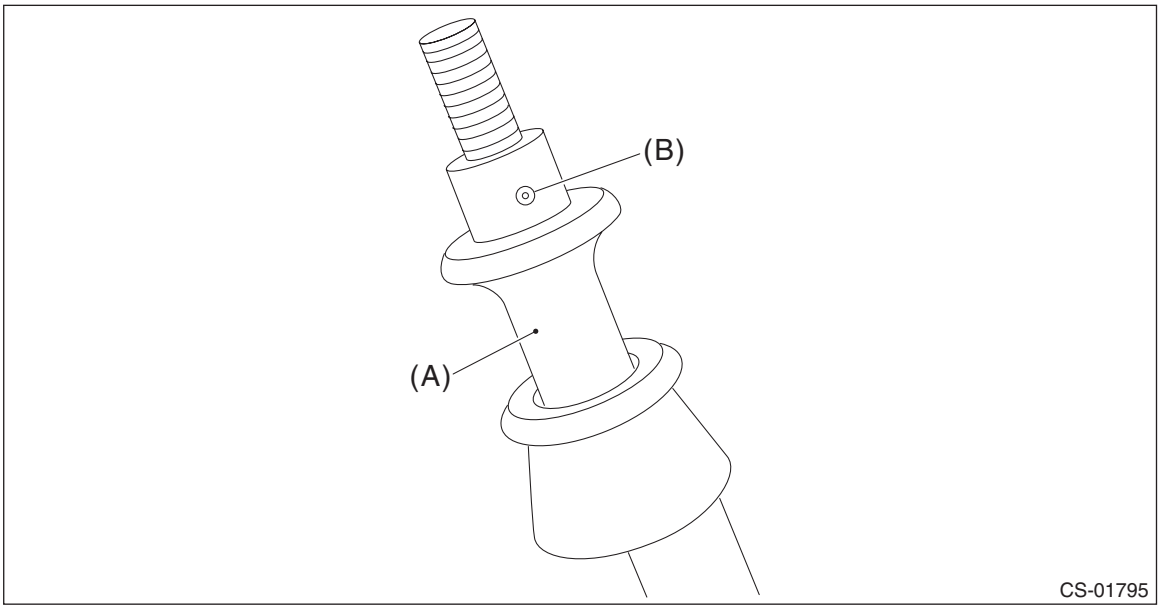
1) Disconnect the ground cable from battery.
2) Remove the gear shift knob by turning it counterclockwise.
3) Remove the console box assembly. <Ref. to EI-67, REMOVAL, Console Box.>
4) Remove the cover - shift lever. <Ref. to EI-67, REMOVAL, Console Box.>
5) Remove the panel center LWR LH and RH. <Ref. to EI-67, REMOVAL, Console Box.>
6) Remove the clamp.



7) Remove the boot and insulator assembly.

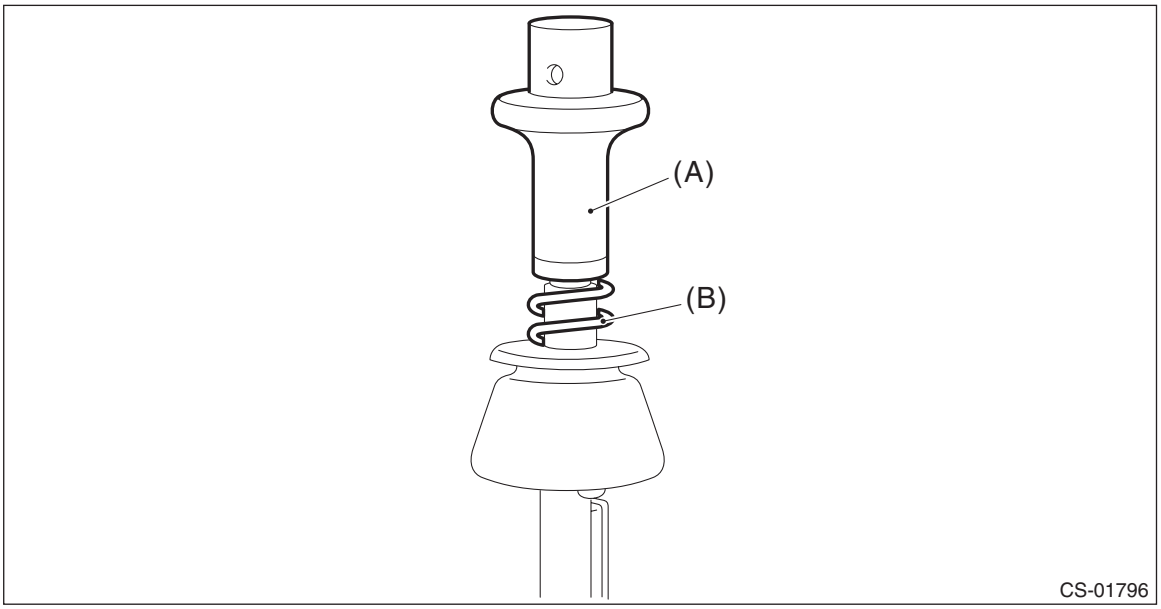


8) Remove the spring pin from the slider.



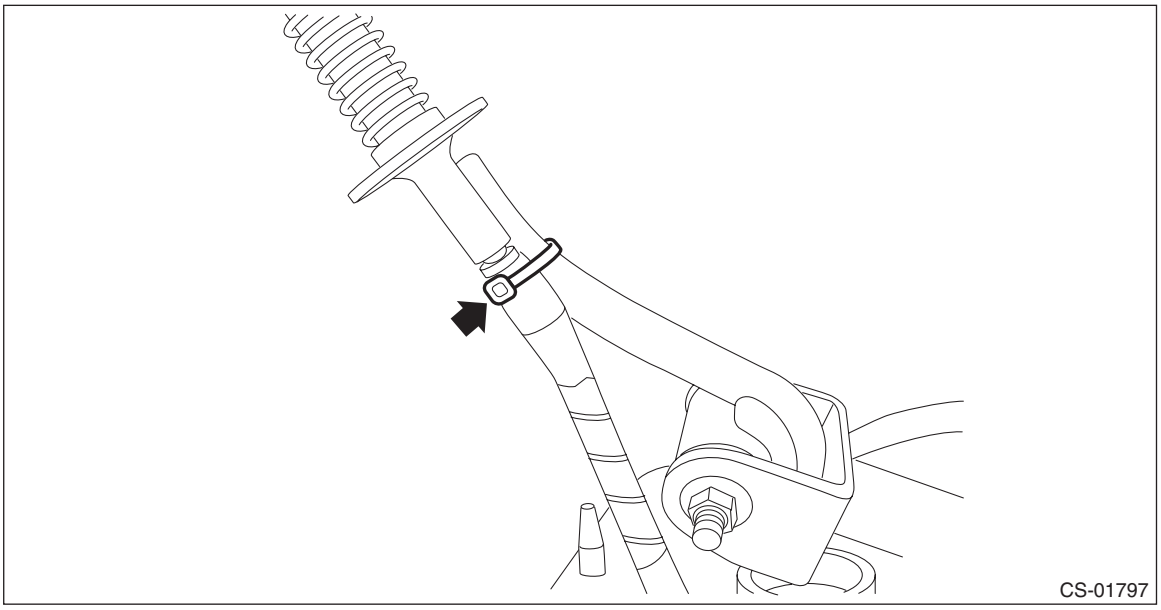
(A) Slider (B) Spring pin

9) Remove the slider and spring.



(A) Slider (B) Spring

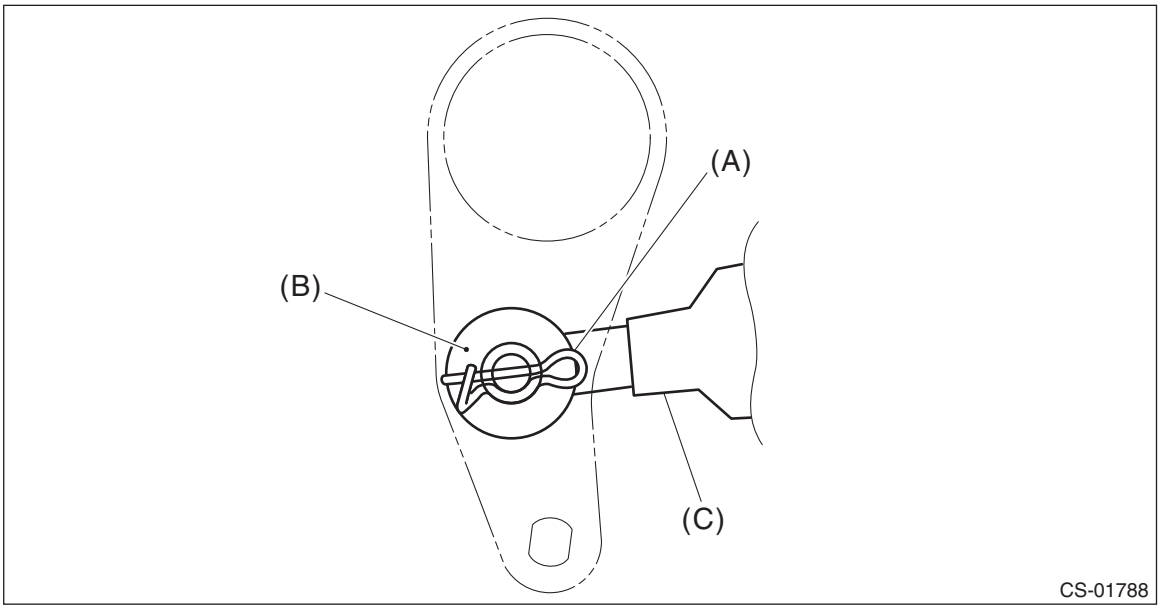
10) Cut the band clip, and separate the reverse check cable from the gear shift lever.



11) Lift up the vehicle.
12) Remove the center exhaust pipe (rear). <Ref. to EX(STI)-7, REMOVAL, Center Exhaust Pipe.>
13) Remove the center exhaust cover.

14) Remove the crossmember. <Ref. to 6MT(TY85)-29, REMOVAL, Transmission Mounting System.>

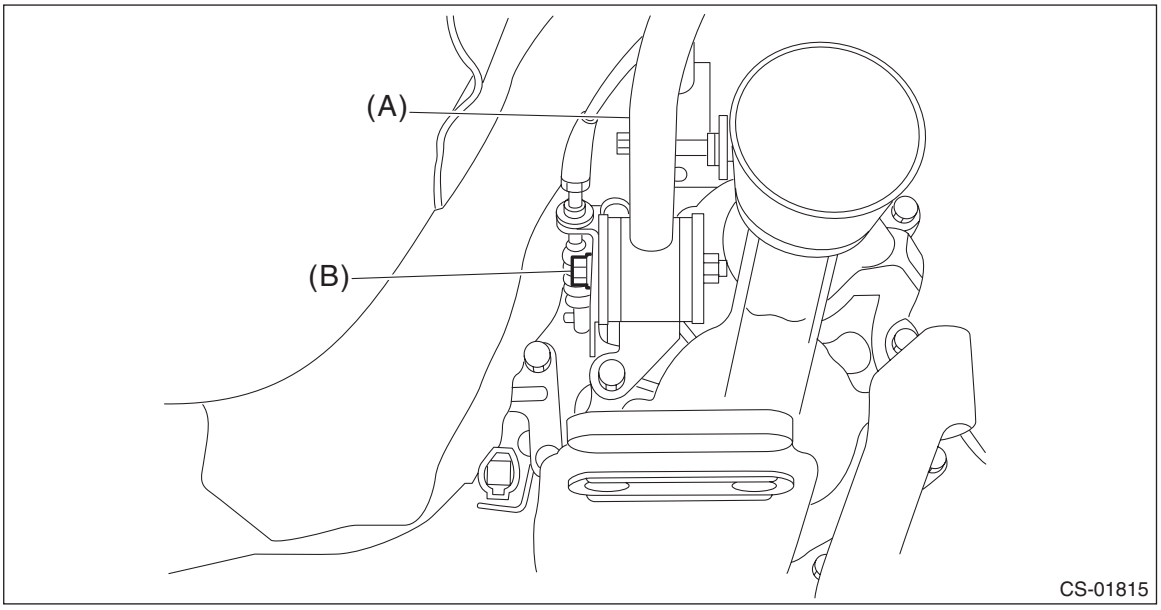
15) Remove the snap pin and washer, and separate the reverse check cable.



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

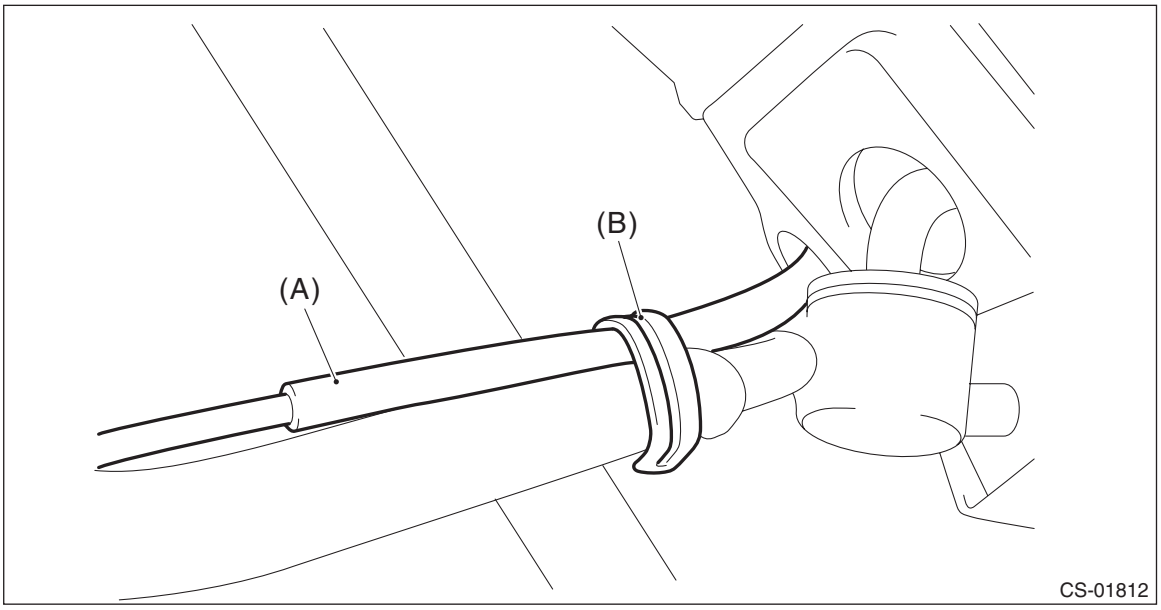
16) Move the transmission to the right side, and remove the stay bolts and the reverse check cable.

NOTE:
If the transmission is not moved aside, the stay bolts may contact the body and cause damage.



(A) Stay (B) Stay bolt

17) Lift up the stay clip, and separate the stay from the reverse check cable.

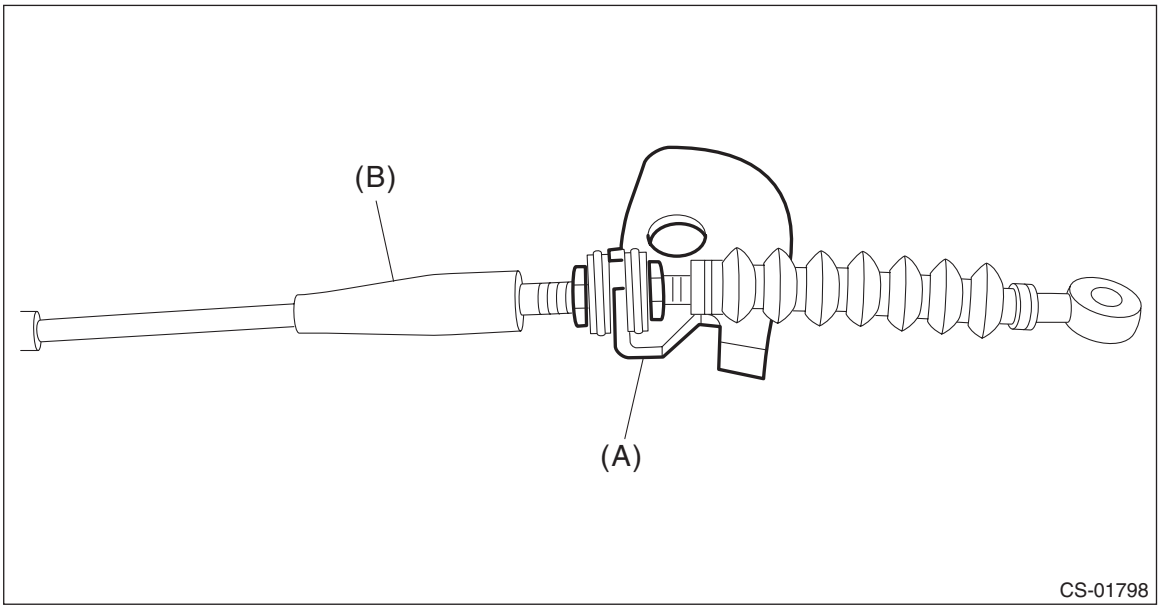


(A) Reverse check cable (B) Clip

18) Pull out the reverse check cable from underside of the vehicle to remove it.

NOTE:
Be careful not to damage the inner boot.

19) Loosen the lock nut, and remove the reverse check cable from the cable plate.

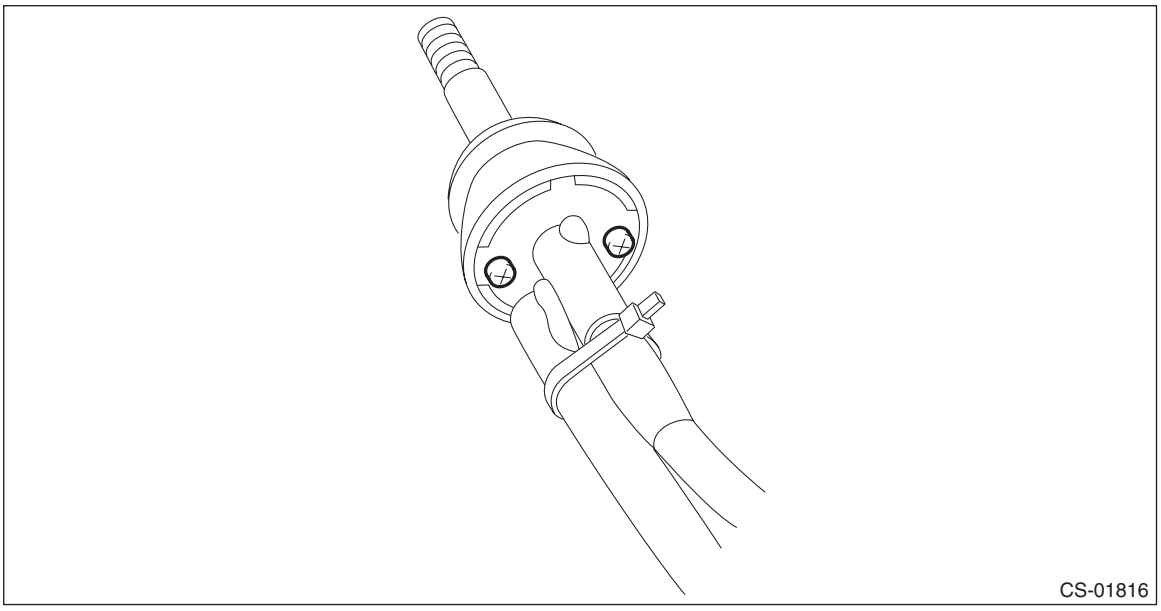


(A) Cable plate (B) Reverse check cable

B: INSTALLATION

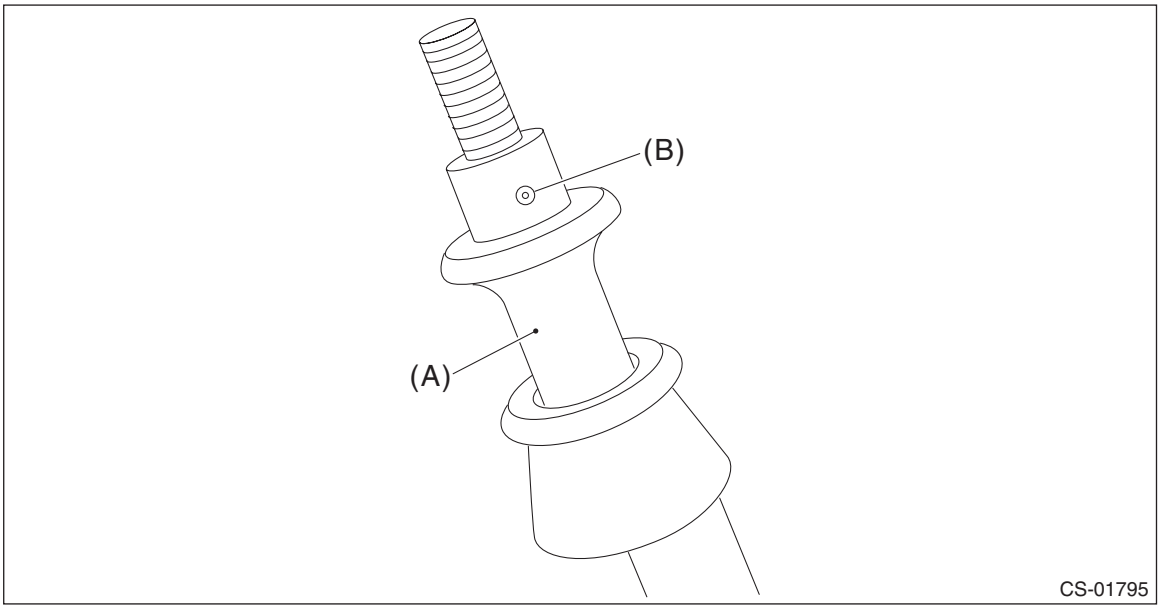
1) Insert the reverse check cable into the inner boot hole from underside of the vehicle.
2) Insert the reverse check cable into the gear shift lever assembly, and secure it with the band clip.

NOTE:
- Cut the excess band clip.
- Make sure that the reverse check cable is inserted into the gearshift lever with no gaps.



3) Use the spring pin to secure the end of the slider and reverse check cable.

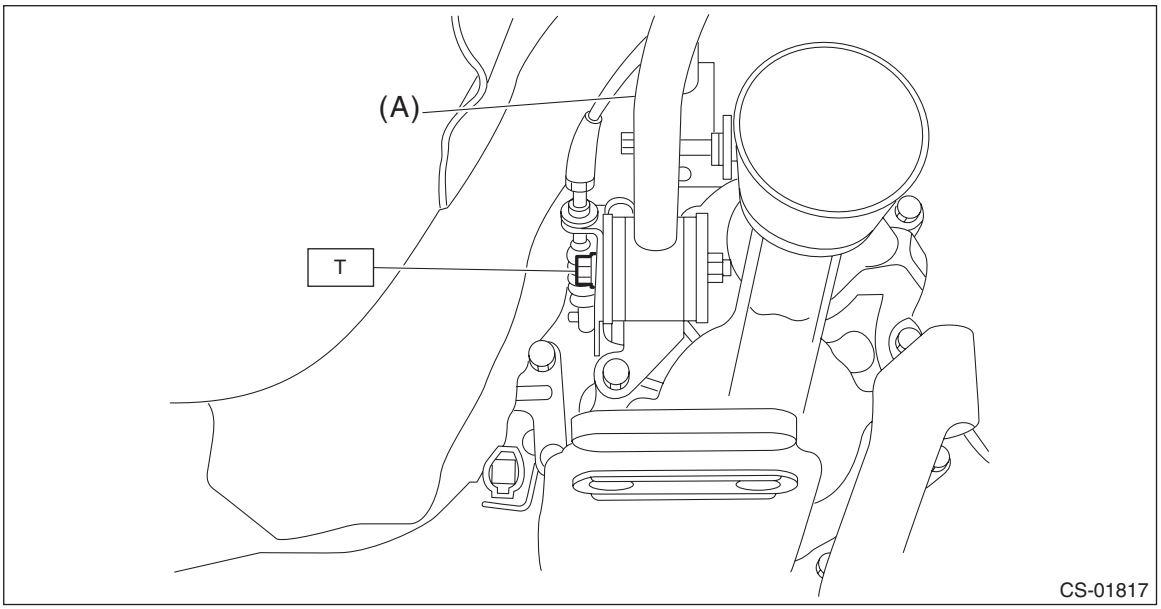
NOTE:
Apply grease to the moving part of slider.



(A) Slider
(B) Spring pin

4) Move the transmission to the right side, and install the stay.

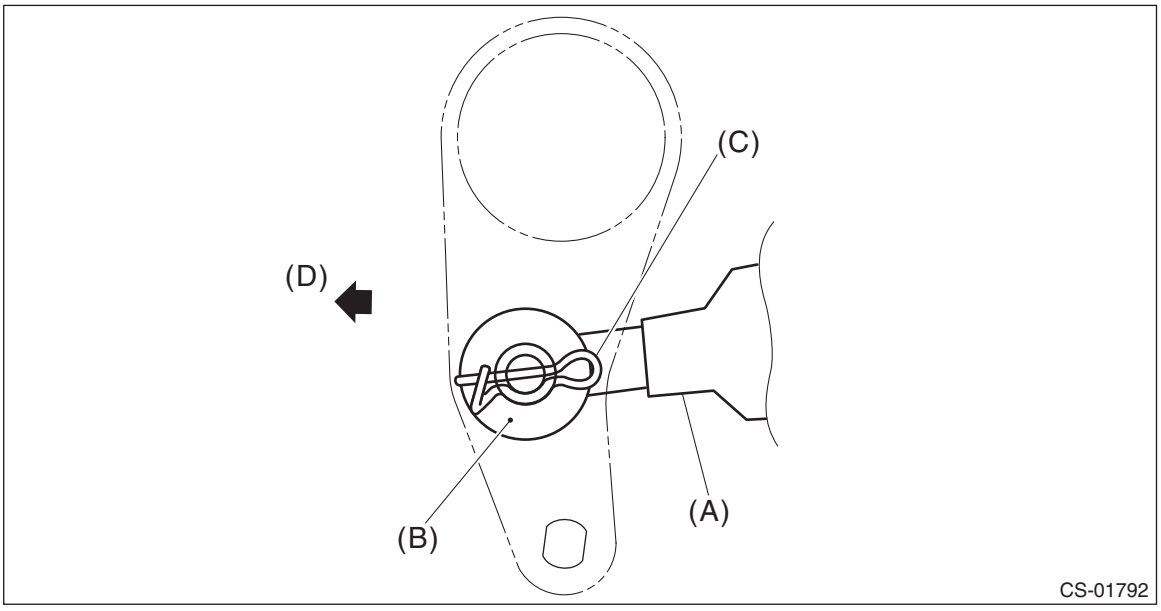
Tightening torque:
T: 32 N·m (3.3 kgf-m, 23.6 ft-lb)



(A) Stay

5) Install the reverse check cable, washer and snap pin.

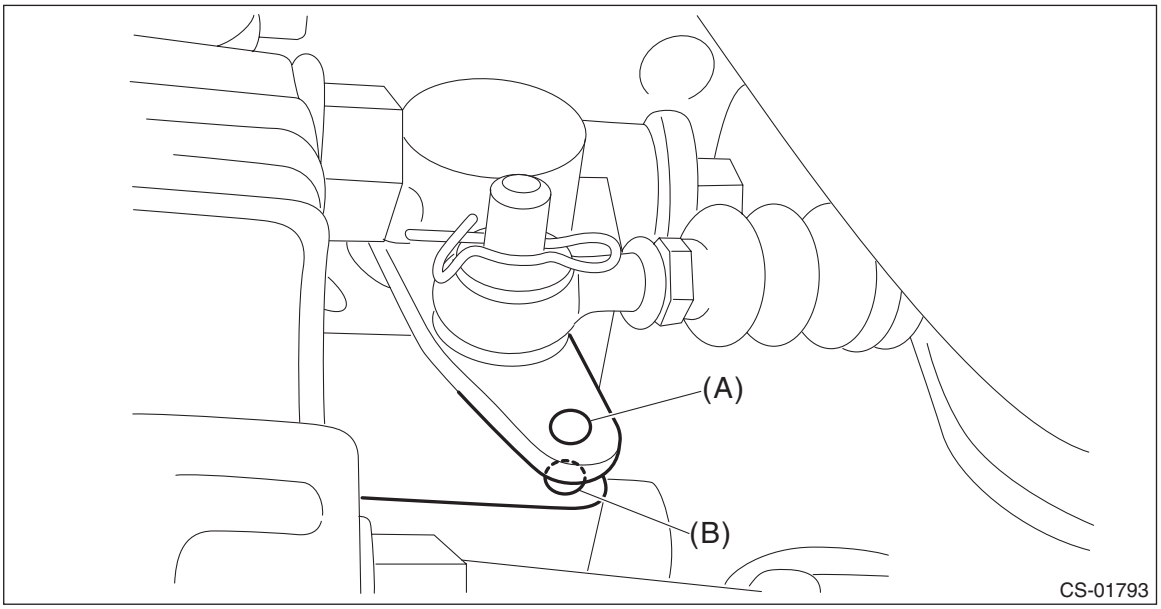
NOTE:
Make sure to point the snap pin in an appropriate direction.



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

6) Make sure the hole of extension case is aligned with that of reverse check lever. If the hole positions are not aligned, adjust the reverse check cable. <Ref. to CS-120, ADJUSTMENT, Reverse Check Cable.>

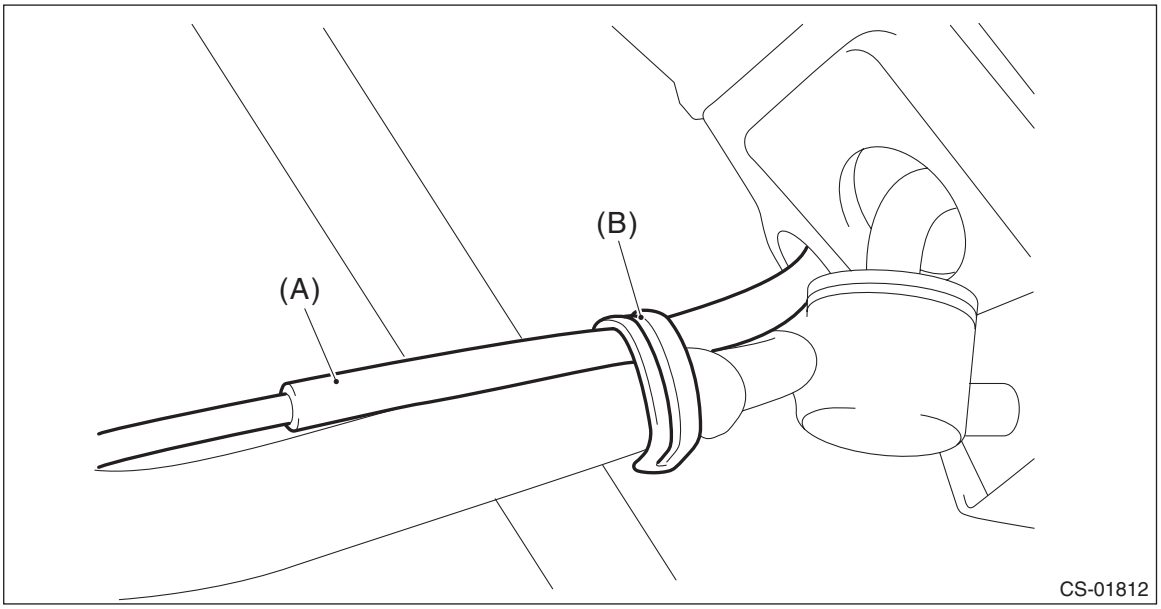
NOTE:
• Check that the M3 bolt goes through the hole of reverse check lever and can be inserted into the hole of extension case.
• When checking visually, confirm that the gap of hole positions is 0.5 mm (0.02 in) or less.



(A) Hole of reverse check lever (B) Hole of extension case

7) Secure the reverse check cable to the stay clip.

NOTE:
Install the reverse check cable on top of the stay.

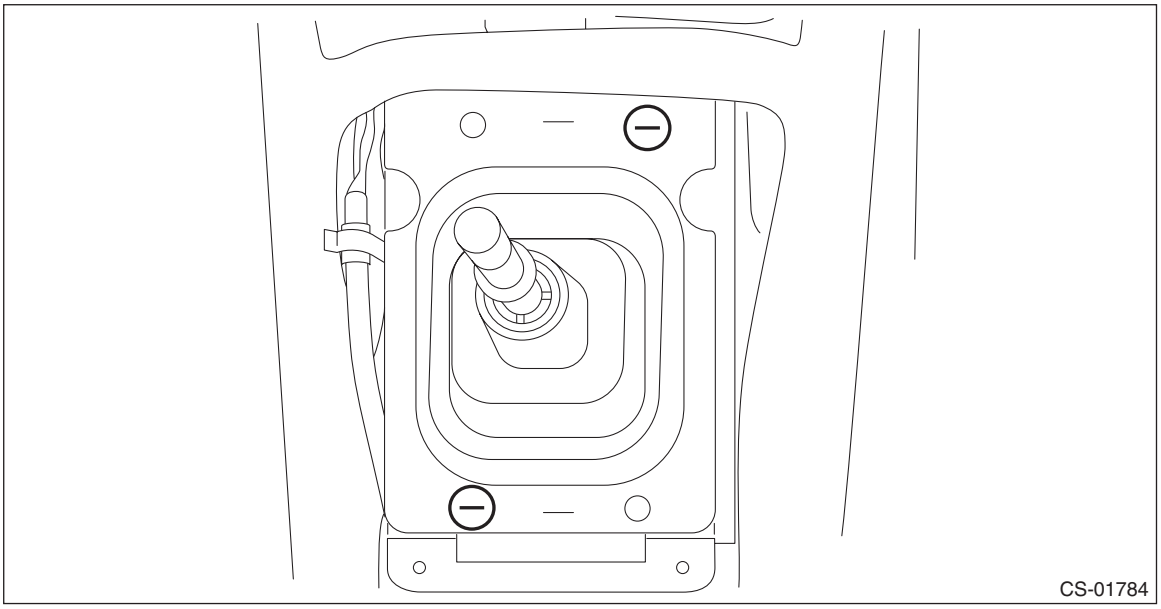


(A) Reverse check cable (B) Clip

8) Install the crossmember. <Ref. to 6MT(TY85)-29, INSTALLATION, Transmission Mounting System.>
9) Install the center exhaust cover.

Tightening torque:
18 N·m (1.8 kgf-m, 13.3 ft-lb)

10) Install the center exhaust pipe (rear). <Ref. to EX(STI)-8, INSTALLATION, Center Exhaust Pipe.>
11) Install the boot and insulator assembly, and secure with a clamp.



12) Install the panel center LWR LH and RH. <Ref. to EI-68, INSTALLATION, Console Box.>
13) Install the cover - shift lever. <Ref. to EI-68, INSTALLATION, Console Box.>
14) Install the console box assembly. <Ref. to EI-68, INSTALLATION, Console Box.>
15) Install the gear shift knob by turning it clockwise.

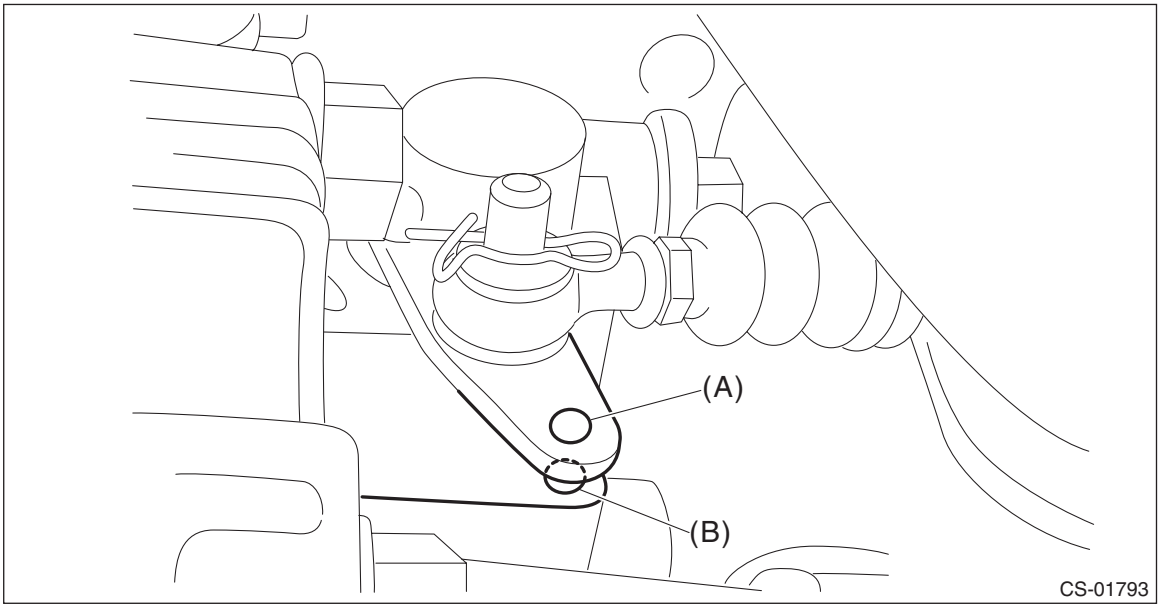
CAUTION:
Do not turn the gear shift knob excessively to prevent it from being damaged.

16) Connect the battery ground terminal.

C: INSPECTION

1) Make sure the slider moves smoothly. If it does not move, adjust the reverse check cable, or check the slider for damage. <Ref. to CS-120, ADJUSTMENT, Reverse Check Cable.>
2) Check if the gear shifts into reverse when pulling up the slider. If the gear cannot shift into reverse, adjust the reverse check cable. <Ref. to CS-120, ADJUSTMENT, Reverse Check Cable.>
3) Check that the gear does not shift into reverse when the slider is not pulled up. If the gear shifts into reverse, adjust or replace the reverse check cable. <Ref. to CS-120, ADJUSTMENT, Reverse Check Cable.>
4) Make sure the hole of extension case is aligned with that of reverse check lever. If the hole positions are not aligned, adjust the reverse check cable. <Ref. to CS-120, ADJUSTMENT, Reverse Check Cable.>

NOTE:
- Check that the M3 bolt goes through the hole of reverse check lever and can be inserted into the hole of extension case.
- When checking visually, confirm that the gap of hole positions is 0.5 mm (0.02 in) or less.

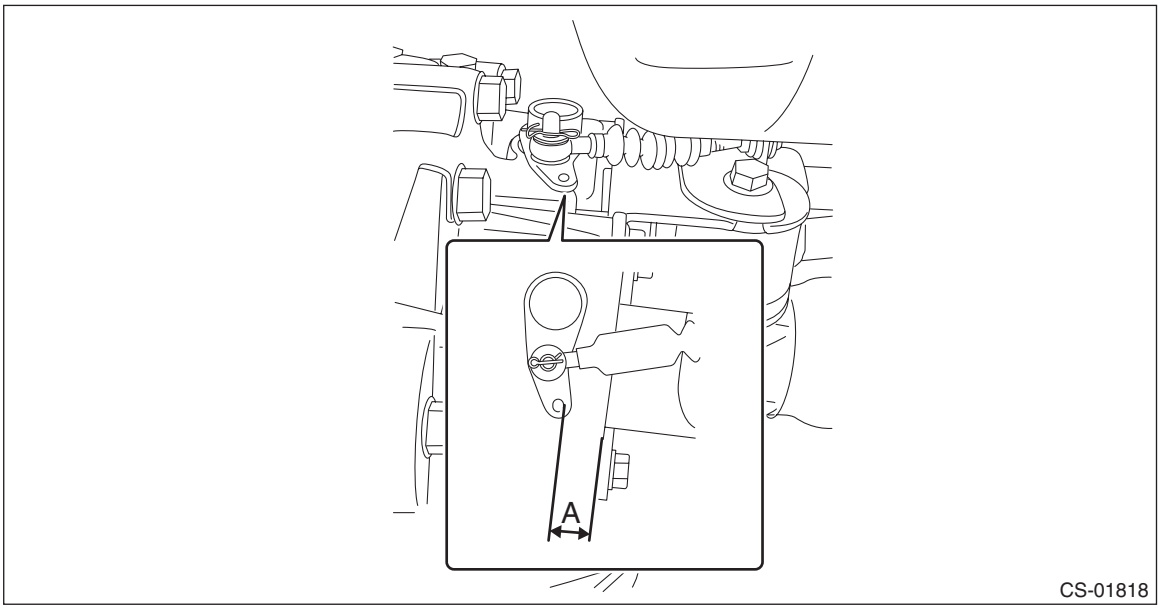


(A) Hole of reverse check lever (B) Hole of extension case

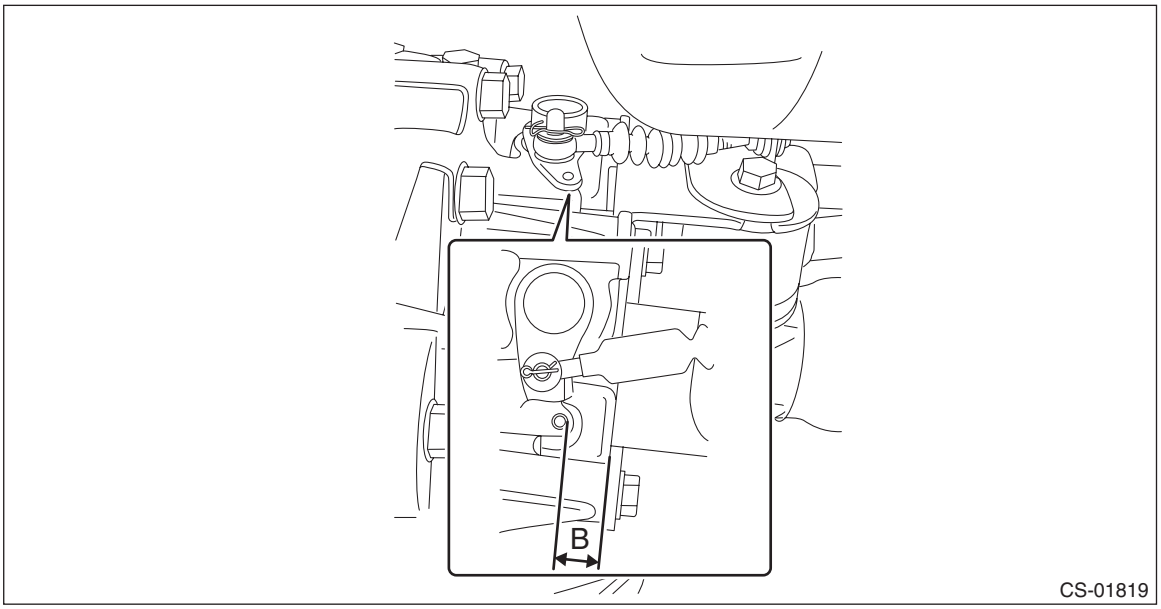
D: ADJUSTMENT

1) Disconnect the ground cable from battery.
2) Lift up the vehicle.
3) Remove the center exhaust pipe (rear). <Ref. to EX(STI)-7, REMOVAL, Center Exhaust Pipe.>
4) Remove the center exhaust cover.

5) Remove the crossmember. <Ref. to 6MT(TY85)-29, REMOVAL, Transmission Mounting System.>
6) Measure the distance “A” from the shift bracket seating face on transmission side to the hole edge of the reverse check lever.

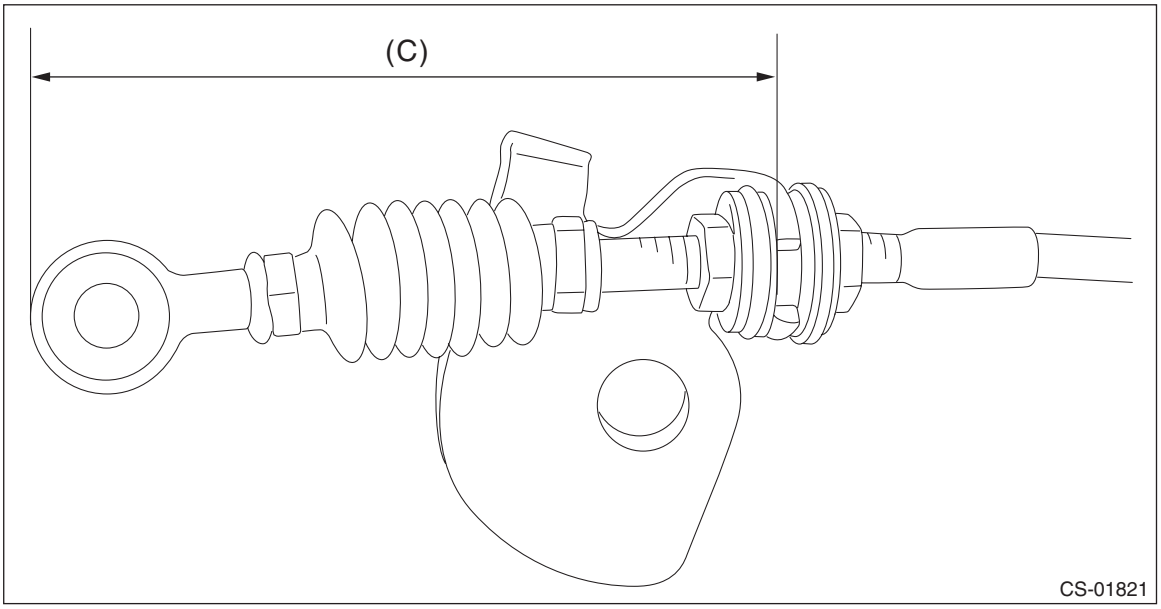


7) Measure the distance “B” from the shift bracket seating face on transmission side to the hole edge of the extension case.

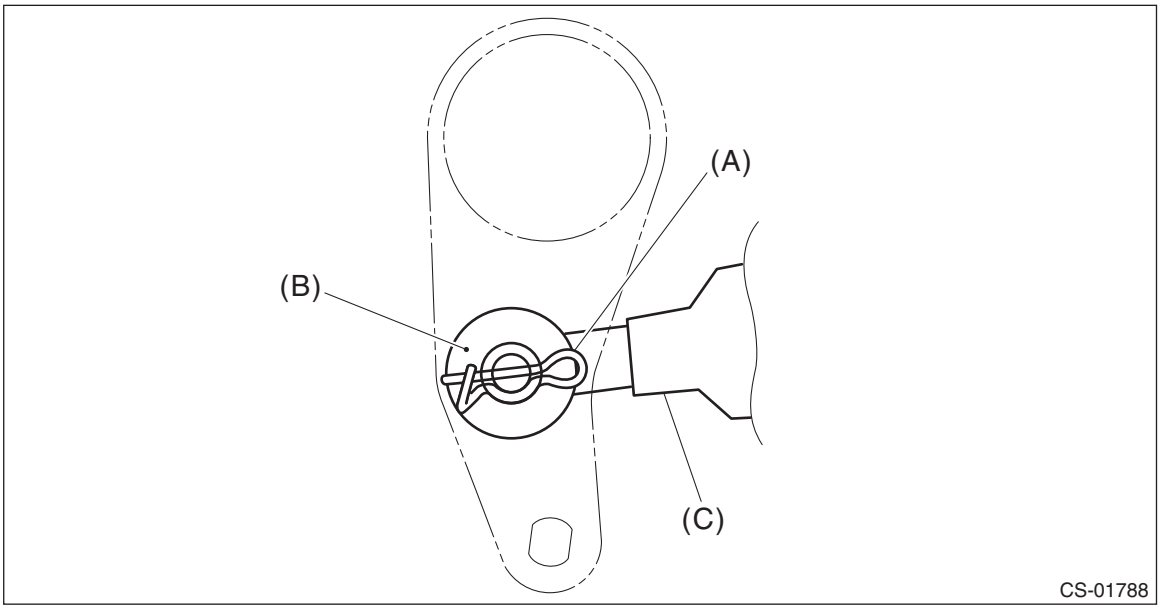


8) Calculate the following formula and determine the amount of cable adjustment.
T mm = (A – B) × 0.56
[T in = (A – B) × 0.56]
T: Amount of cable adjustment
A: Distance from the shift bracket seating face on transmission side to the hole edge of the reverse check lever
B: Distance from the shift bracket seating face on transmission side to the hole edge of the extension case

NOTE:
• If the value “T” (amount of cable adjustment) is positive (+), shorten the length “C” (from cable plate edge to reverse check cable) by using adjustment procedures.
• If the value “T” (amount of cable adjustment) is negative (–), lengthen the length “C” (from cable plate edge to reverse check cable) by using adjustment procedures.



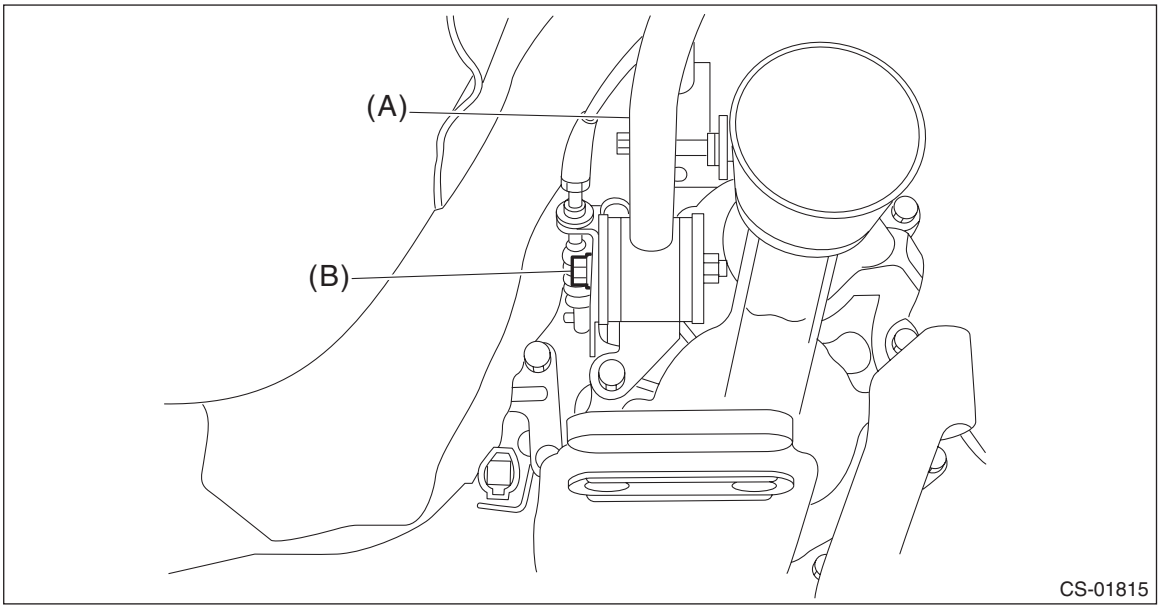
9) Remove the snap pin and washer, and separate the reverse check cable.



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

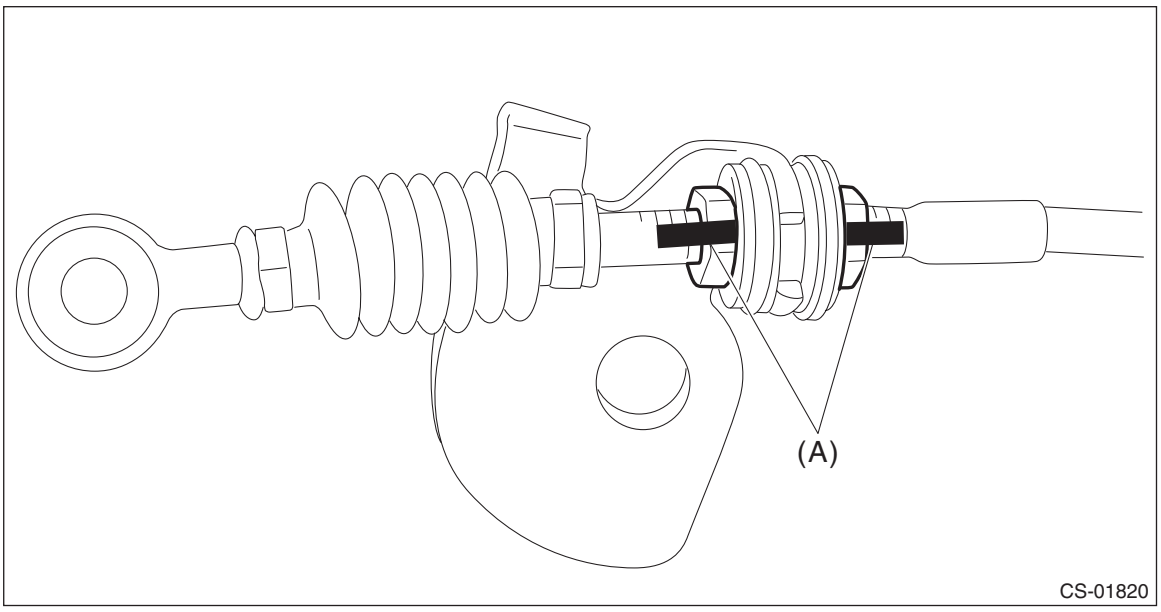
10) Move the transmission to the right side, and remove the stay bolts and the reverse check cable.

NOTE:
If the transmission is not moved aside, the stay bolts may contact the body and cause damage.



(A) Stay (B) Stay bolt

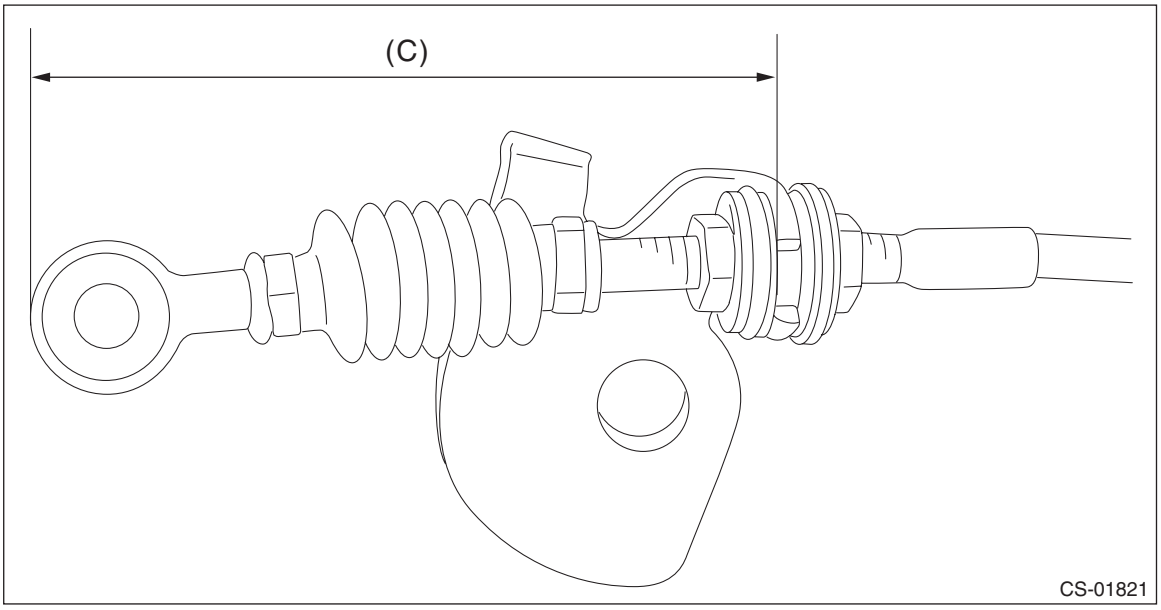
11) Check the adjustment of the reverse check cable.
(1) Add a marking on the reverse check cable.



(A) Marking

(2) According to the value “T” (amount of cable adjustment) calculated in the step 8), turn the lock nut of reverse check cable back and forth, then adjust the length “C” (from cable plate edge to reverse check cable).

NOTE:
• Turning the lock nut toward front of the vehicle makes the cable length shorter and toward the rear of the vehicle the cable length longer.
• The amount of the cable adjustment by one lock nut rotation is 1 mm (0.04 in).
• Turn the lock nuts on both sides by the same adjustment amount.

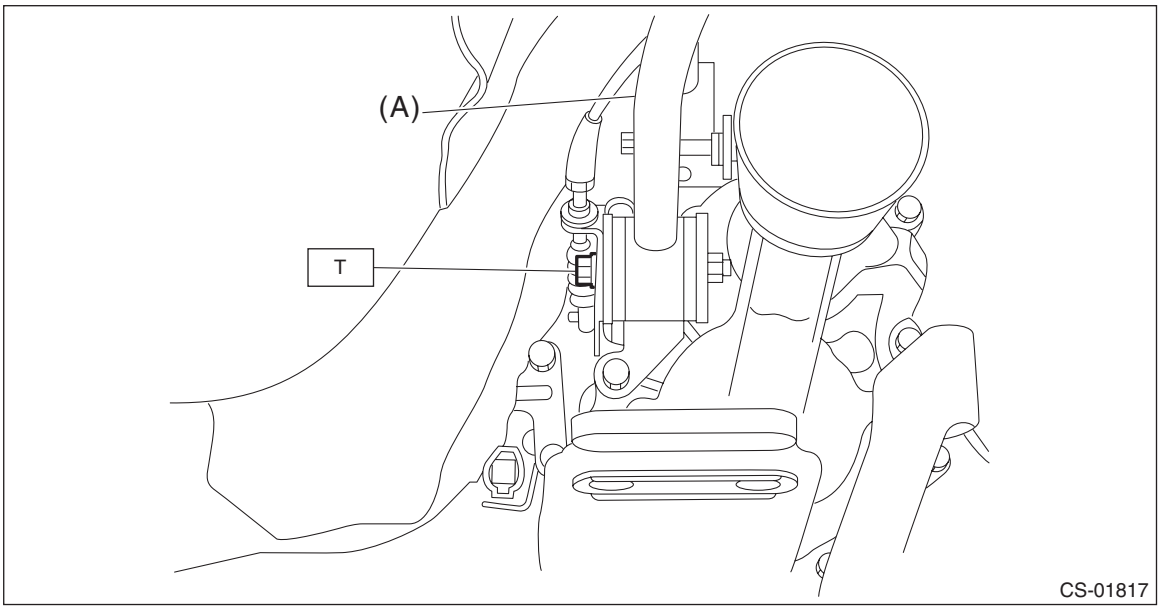


(3) Tighten the lock nut.

Tightening torque:
6 N·m (0.6 kgf-m, 4.4 ft-lb)

12) Move the transmission to the right side, and install the stay.

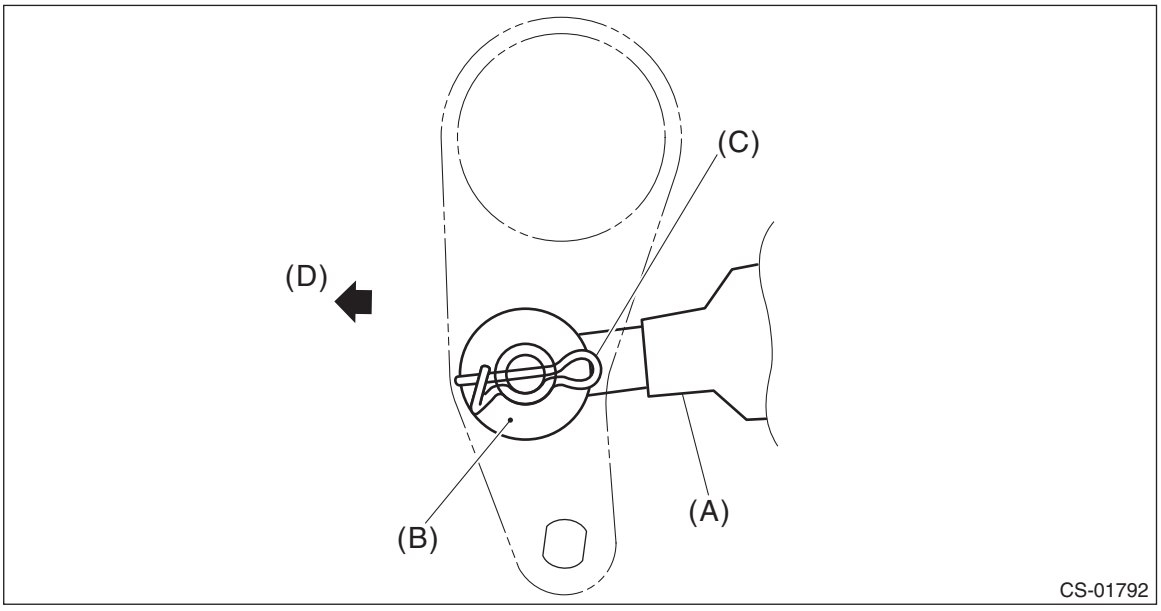
Tightening torque:
T: 32 N·m (3.3 kgf-m, 23.6 ft-lb)



(A) Stay

13) Install the reverse check cable, washer and snap pin.

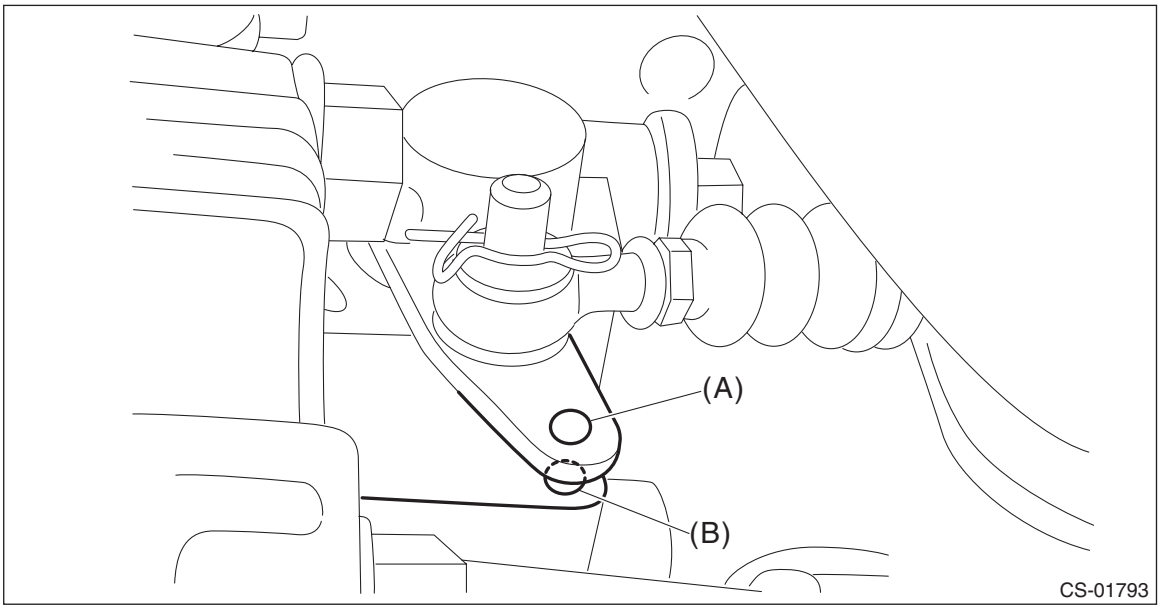
NOTE:
Make sure to point the snap pin in an appropriate direction.



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

14) Make sure the hole of extension case is aligned with that of reverse check lever. If the hole positions are not aligned, return to the step 6) and repeat the adjustment procedures of the reverse check cable.

NOTE:
- Check that the M3 bolt goes through the hole of reverse check lever and can be inserted into the hole of extension case.
- When checking visually, confirm that the gap of hole positions is 0.5 mm (0.02 in) or less.



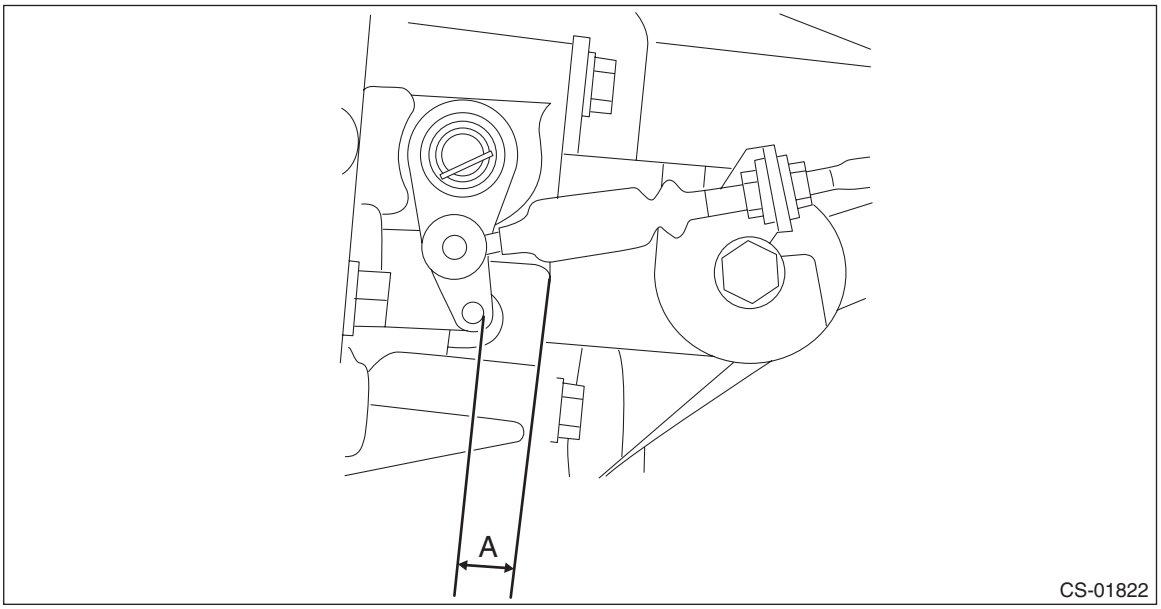
(A) Hole of reverse check lever (B) Hole of extension case

NOTE:
If the hole positions are not aligned after repeating the reverse check cable adjustment, adjust the cable hole position to the reference standard.

Distance from the shift bracket seating face on transmission side to the hole edge of the reverse check lever "A":

Reference standard

16 mm (0.63 in)



15) Install the crossmember. <Ref. to 6MT(TY85)-29, INSTALLATION, Transmission Mounting System.>
16) Install the center exhaust cover.

Tightening torque:
18 N·m (1.8 kgf-m, 13.3 ft-lb)

17) Install the center exhaust pipe (rear). <Ref. to EX(STI)-8, INSTALLATION, Center Exhaust Pipe.>
18) Connect the battery ground terminal.