

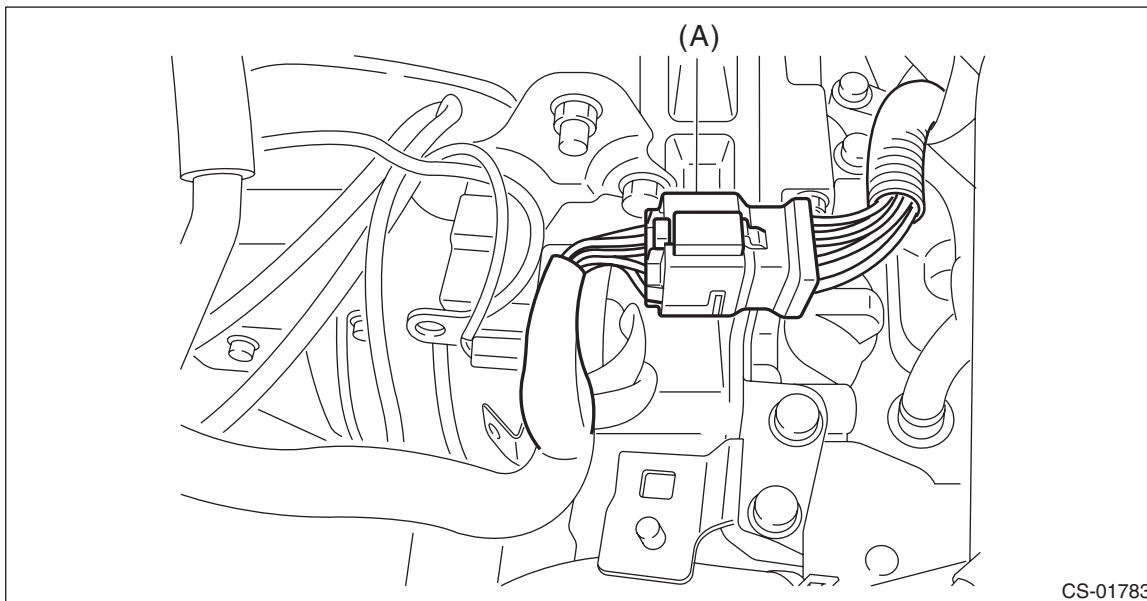
### 9. MT Gear Select Cable

#### A: REMOVAL

##### CAUTION:

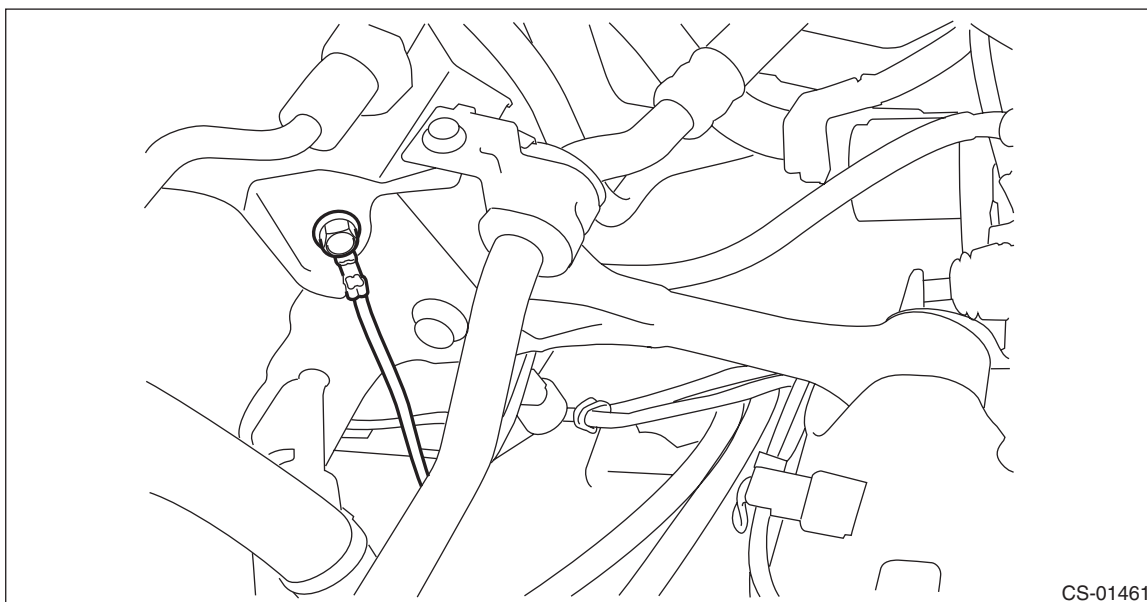
**Always use new MT gear select cable if the cable is removed from selector lever COMPL of transmission side.**

- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 2) Remove the air intake duct. <Ref. to IN(w/o STI)-22, REMOVAL, Air Intake Duct.>
- 3) Remove the intercooler and the intercooler stay. <Ref. to IN(w/o STI)-38, REMOVAL, Intercooler.>
- 4) Disconnect the engine harness connector.

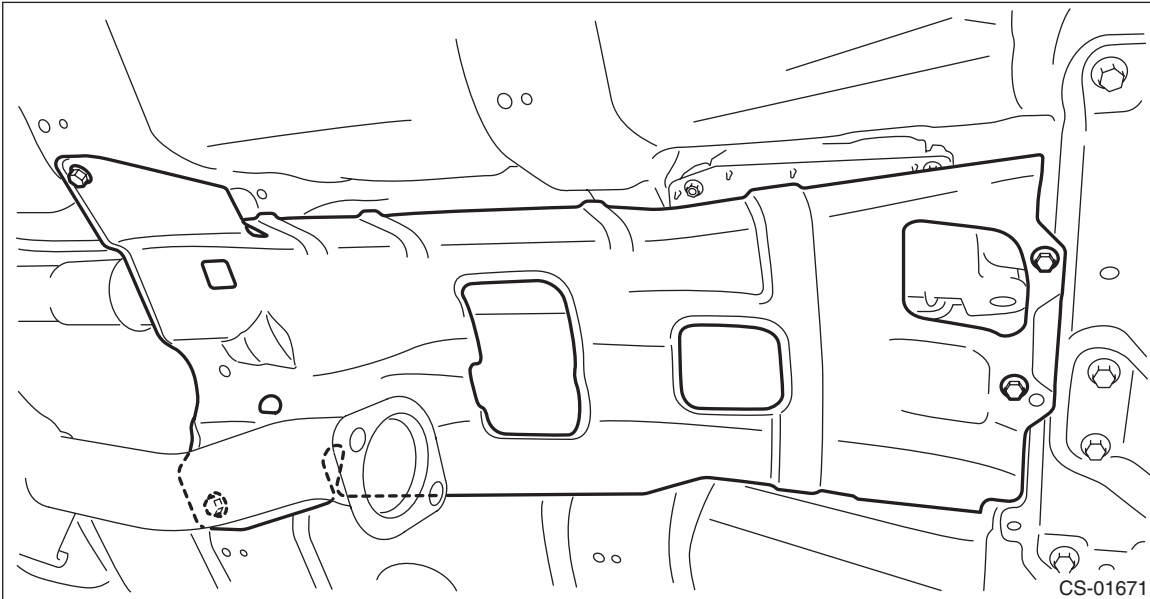


(A) Engine harness connectors

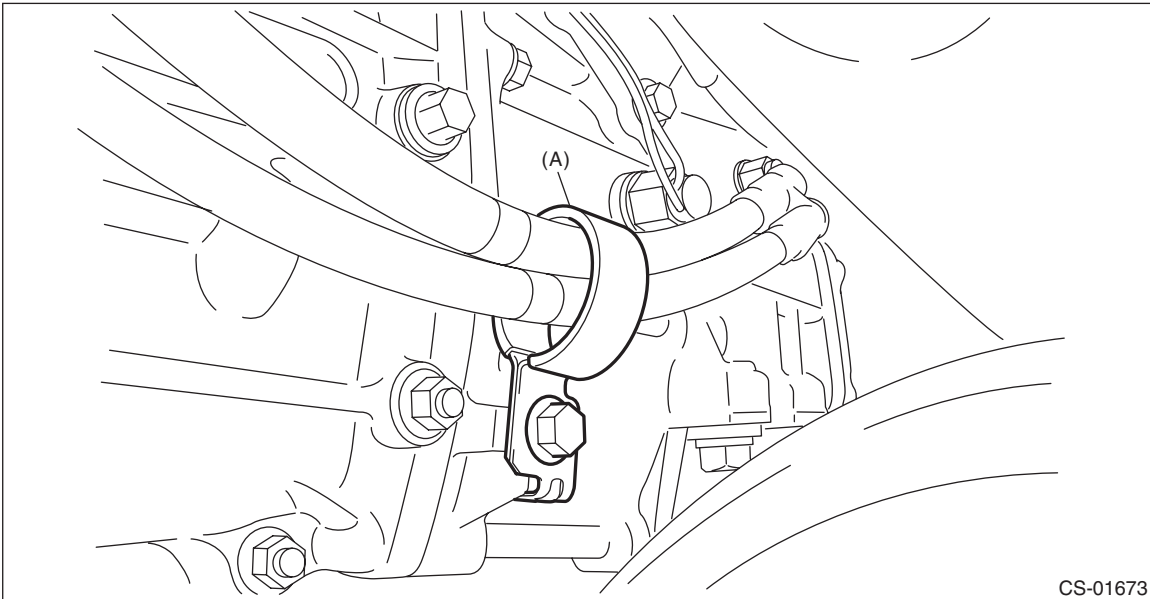
- 5) Disconnect the transmission radio ground cord terminal.



- 6) Remove the pitching stopper. <Ref. to 6MT(TY85)-29, PITCHING STOPPER, REMOVAL, Transmission Mounting System.>
- 7) Lift up the vehicle.
- 8) Remove the center exhaust pipe (rear). <Ref. to EX(w/o STI)-35, REMOVAL, Center Exhaust Pipe.>
- 9) Remove the center exhaust cover.



- 10) Remove the propeller shaft. <Ref. to DS-12, REMOVAL, Propeller Shaft.>
- 11) Remove the cable clamp.



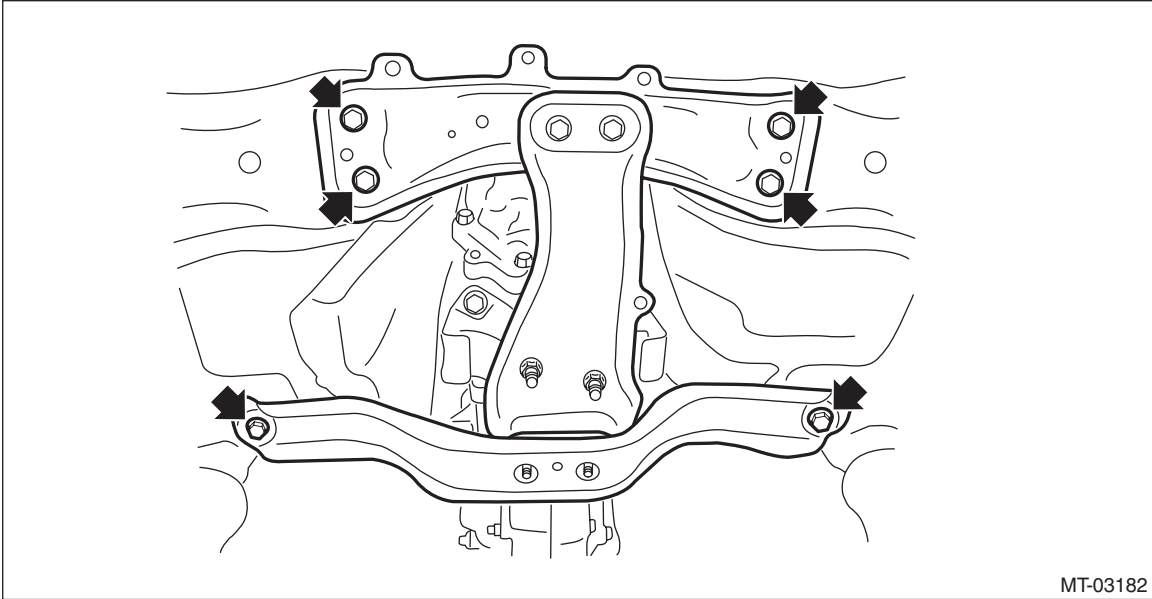
(A) Cable clamp

## MT Gear Select Cable

### CONTROL SYSTEMS

12) Place the transmission jack under the transmission.

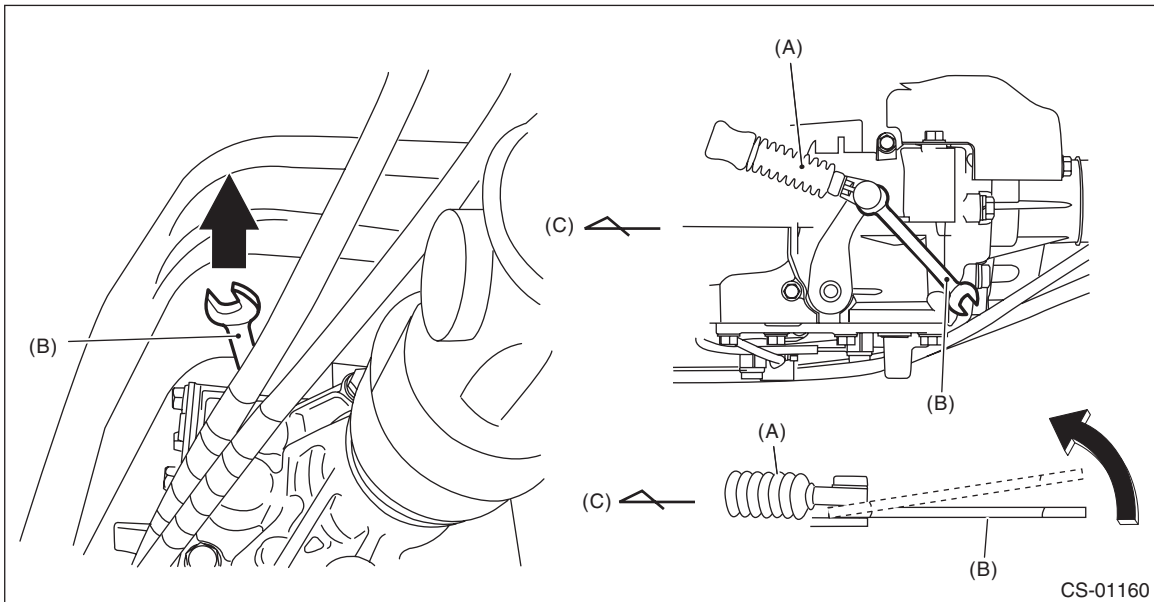
13) Remove the mounting bolt of front crossmember and rear crossmember, and lower the transmission approx. 100 mm (4 in).



14) Insert a spanner between the selector lever COMPL and the MT gear select cable, and remove the MT gear select cable by raising the handle.

#### NOTE:

- Use a spanner with 11 to 13 in size.
- The thickness of the spanner must not exceed 6 mm (0.2 in).

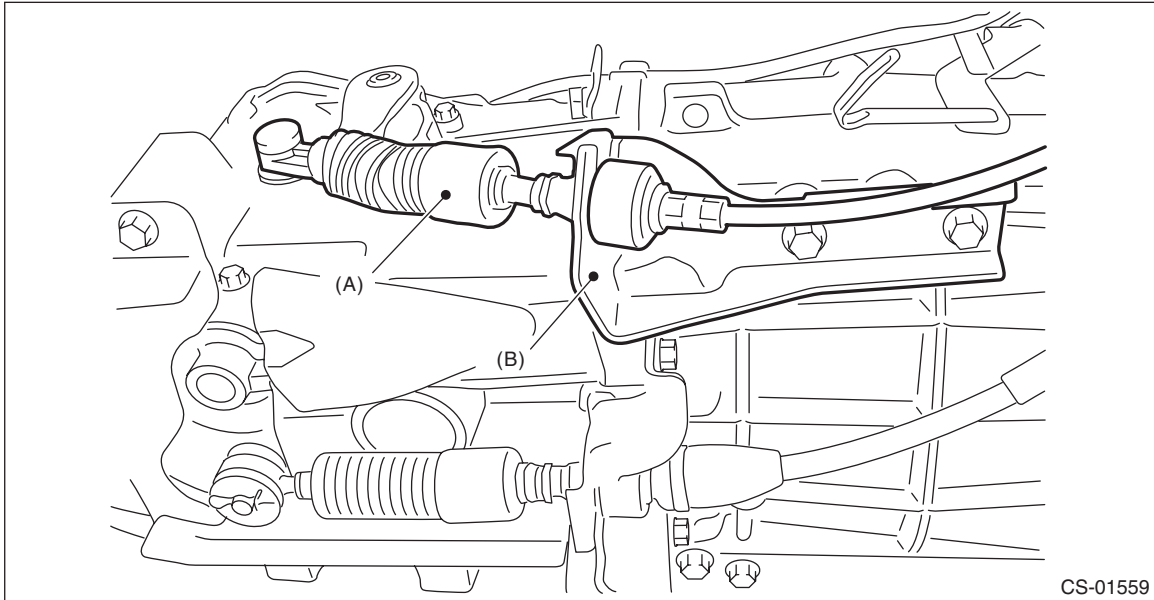


(A) MT gear select cable

(B) Spanner

(C) Forward

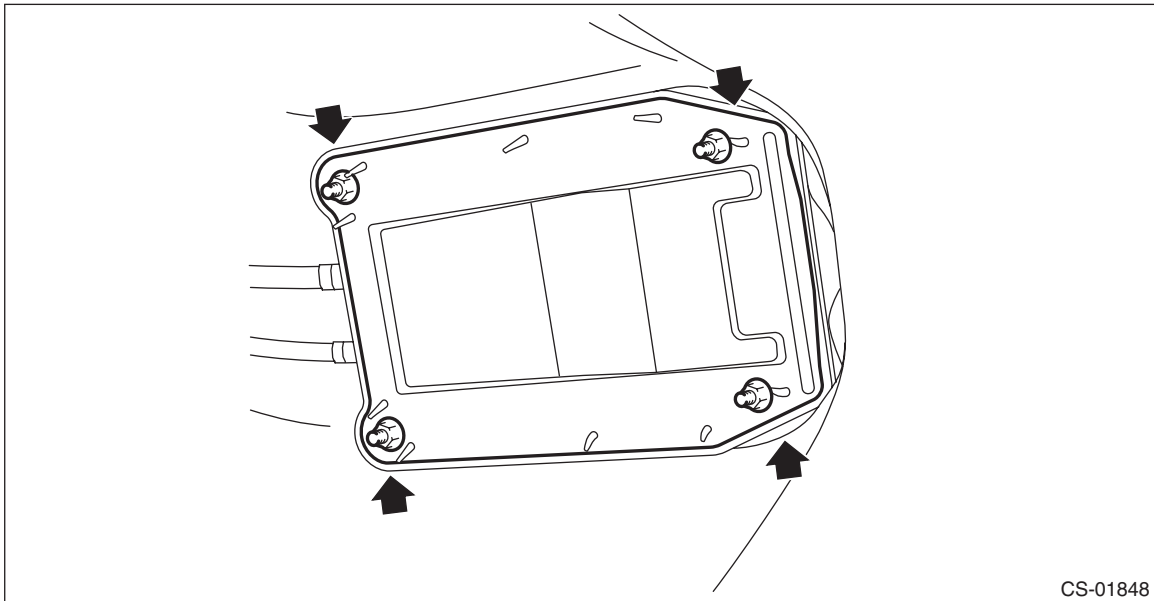
15) Remove the MT gear select cable and select bracket as a single unit.



(A) MT gear select cable

(B) Select bracket

16) Remove the cable cover plate.



## MT Gear Select Cable

### CONTROL SYSTEMS

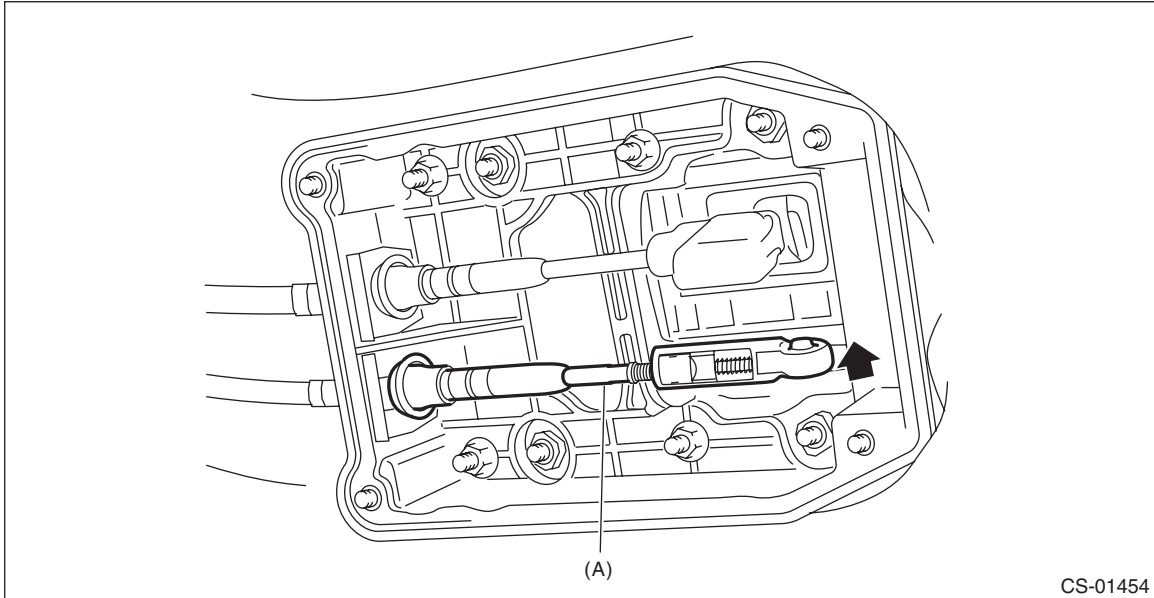
17) Disconnect the MT gear select cable.

**CAUTION:**

**Be careful not to deform the cable inner.**

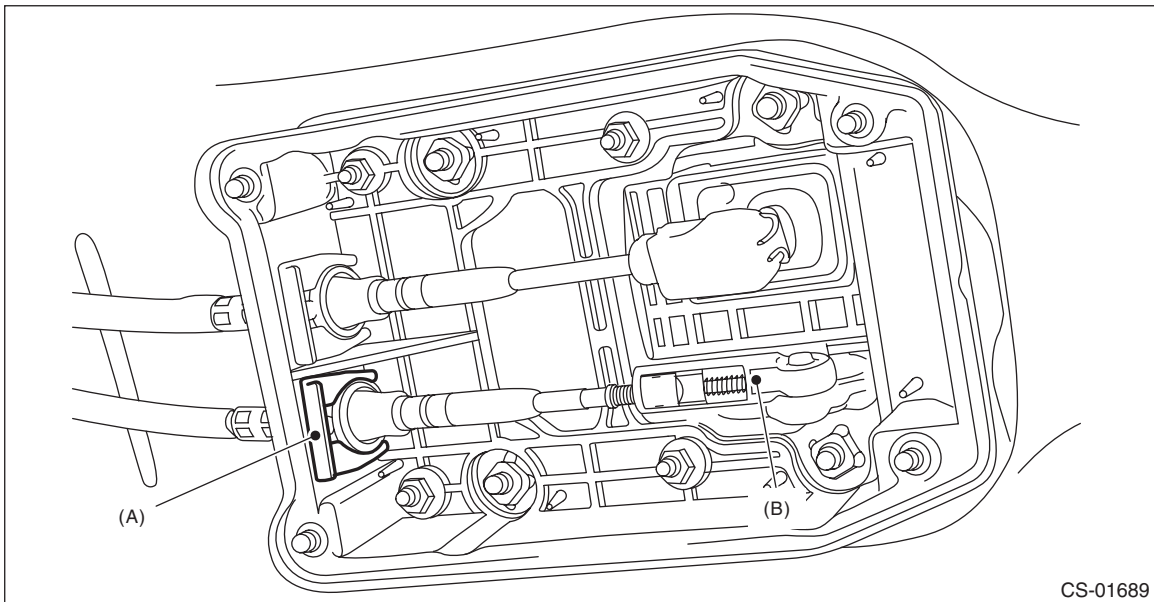
**NOTE:**

Push the MT gear select cable in the direction of arrow, and remove it.



(A) MT gear select cable

18) Remove the clamp.



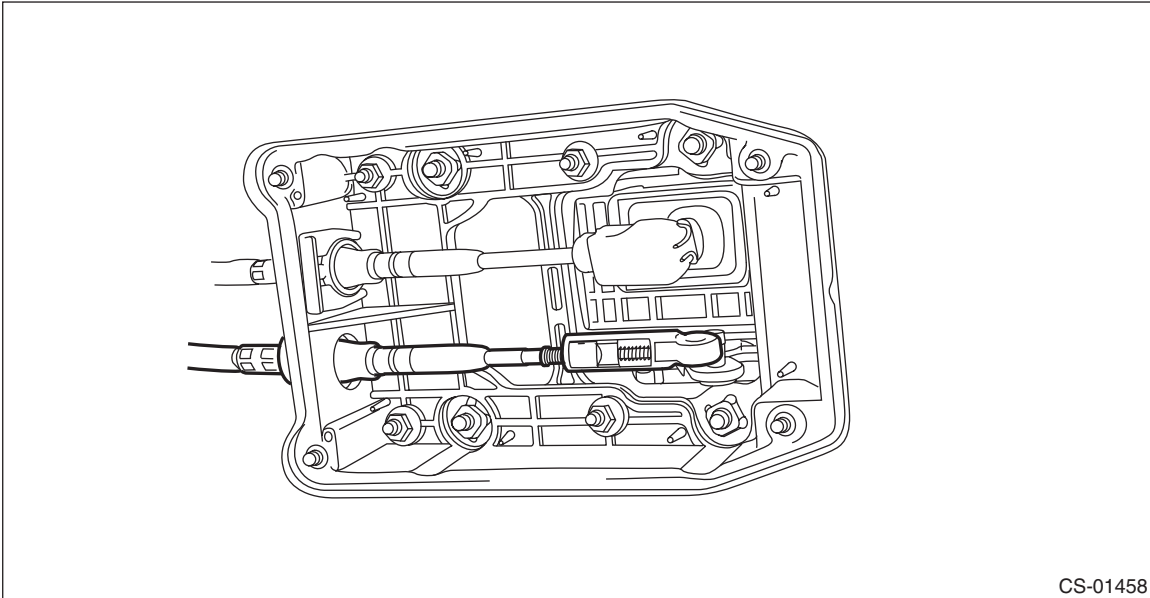
(A) Clamp

(B) MT gear select cable

19) Pull out the MT gear select cable.

**CAUTION:**

**Do not bend the MT gear select cable sharply.**



CS-01458

## B: INSTALLATION

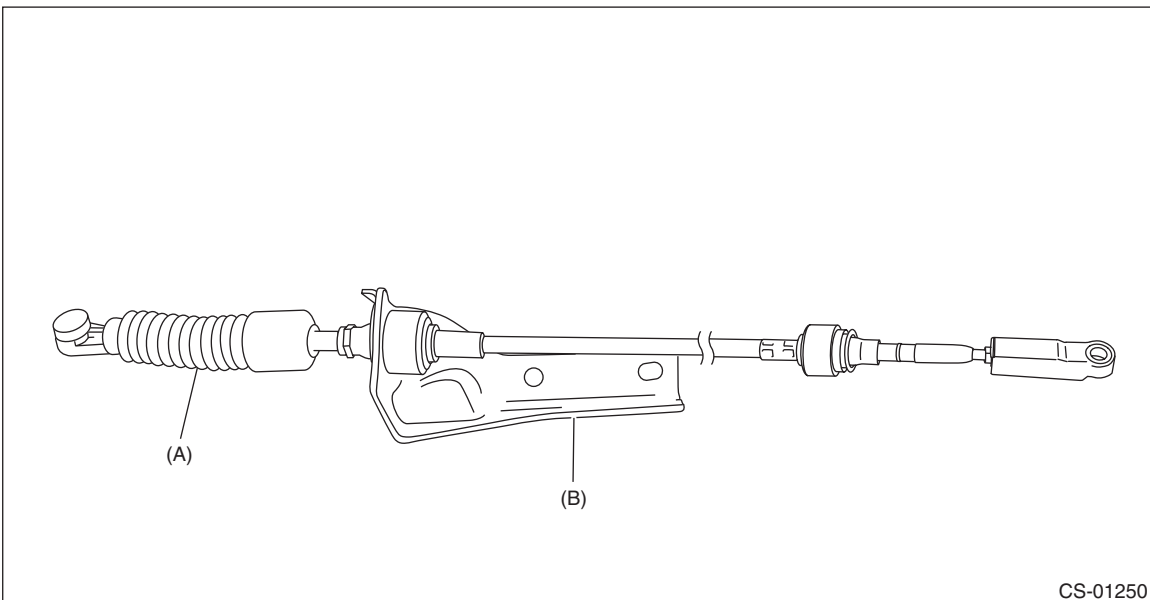
**CAUTION:**

- Always use new MT gear select cable if the cable is removed from selector lever COMPL of transmission side.
- Do not bend the MT gear select cable sharply.
- Do not twist the inner cable excessively.

1) Remove the MT gear select cable from the select bracket.

**CAUTION:**

**Check for assembling position before removing the MT gear select cable from the select bracket.**



CS-01250

(A) MT gear select cable

(B) Select bracket

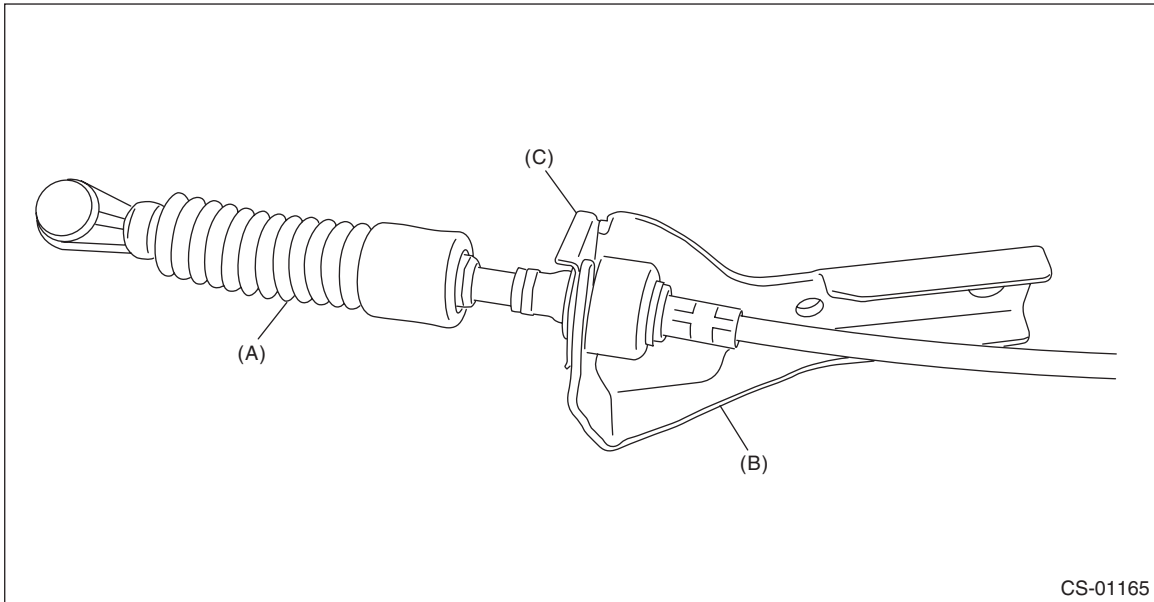
## MT Gear Select Cable

### CONTROL SYSTEMS

2) Set to the new MT gear select cable to the select bracket and secure it with the clamp.

**CAUTION:**

**Be careful not to mistake the MT gear select cable installing direction.**



(A) MT gear select cable

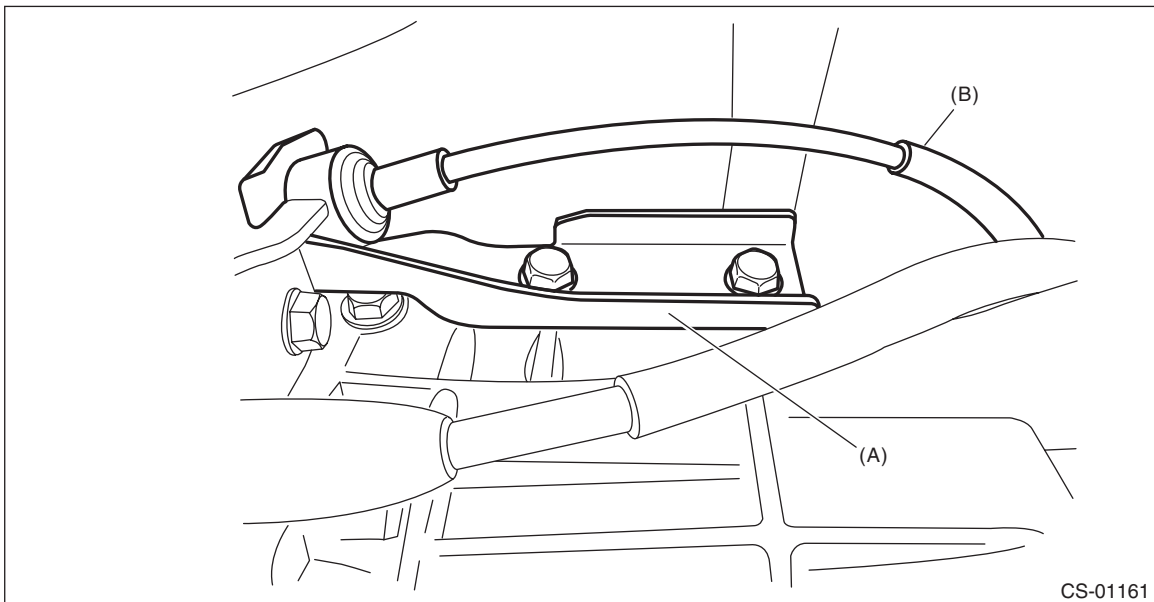
(B) Select bracket

(C) Clamp

3) Install the MT gear select cable and select bracket as a single unit.

**Tightening torque:**

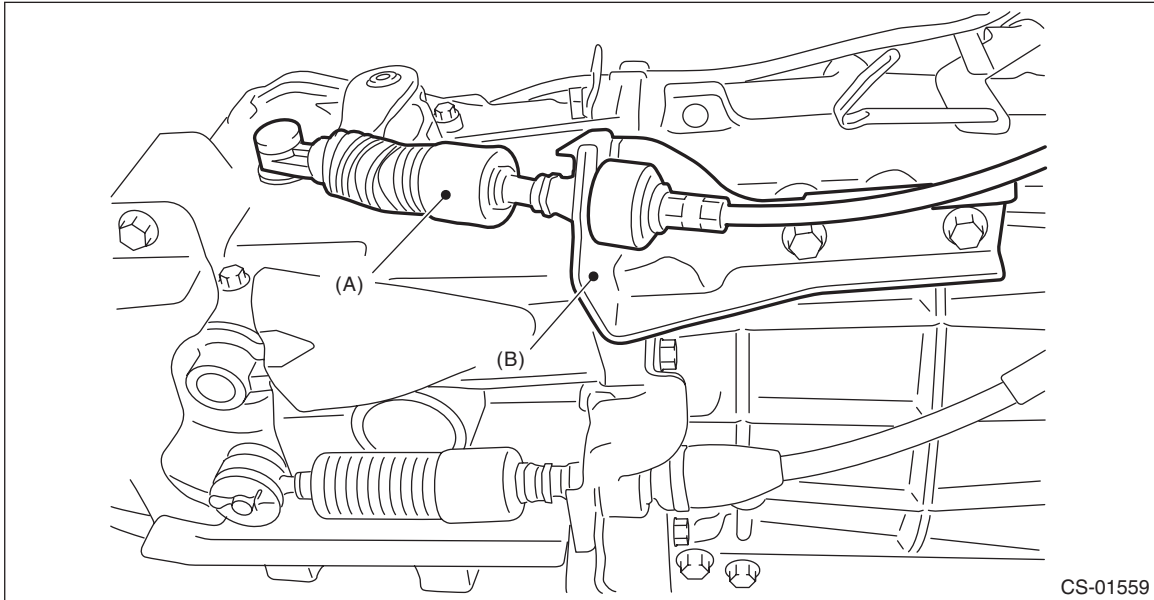
**18 N·m (1.8 kgf-m, 13.3 ft-lb)**



(A) Select bracket

(B) MT gear select cable

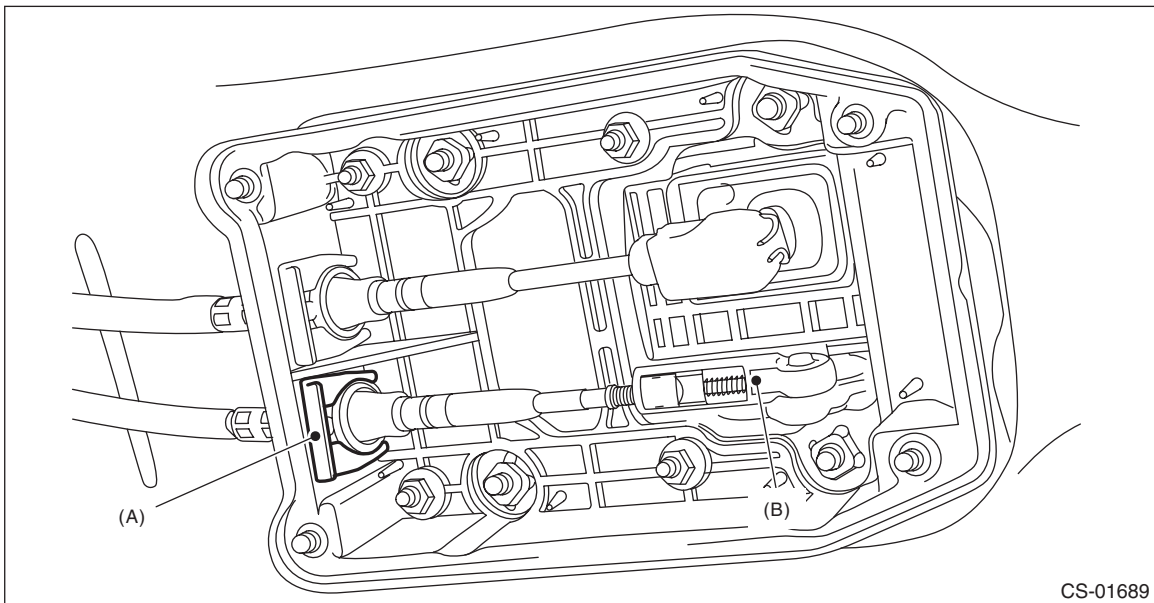
4) Install the MT gear select cable to the select lever COMPL.



(A) MT gear select cable

(B) Select bracket

5) Insert the MT gear select cable into cable cover assembly, and install the clamp.



(A) Clamp

(B) MT gear select cable



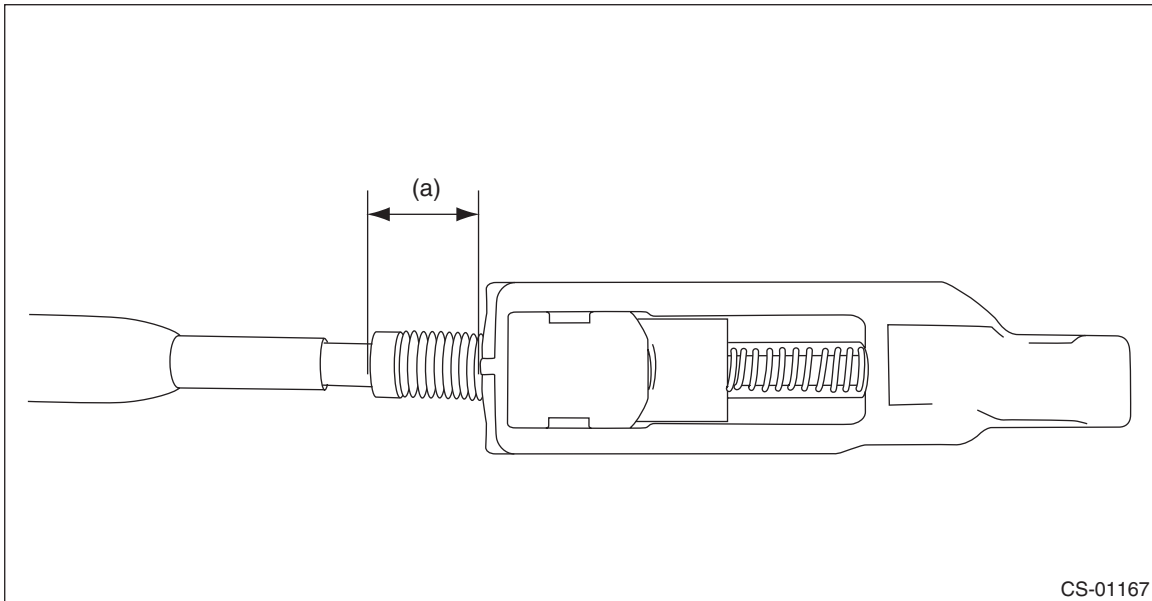
## MT Gear Select Cable

### CONTROL SYSTEMS

6) Measure the exposed length (a) of MT gear select cable. If the value is out of specification, adjust the MT gear select cable. <Ref. to CS-105, ADJUSTMENT, MT Gear Select Cable.>

**Exposed length (a) of MT gear select cable:**

**Specification: 11 mm (0.4 in)**

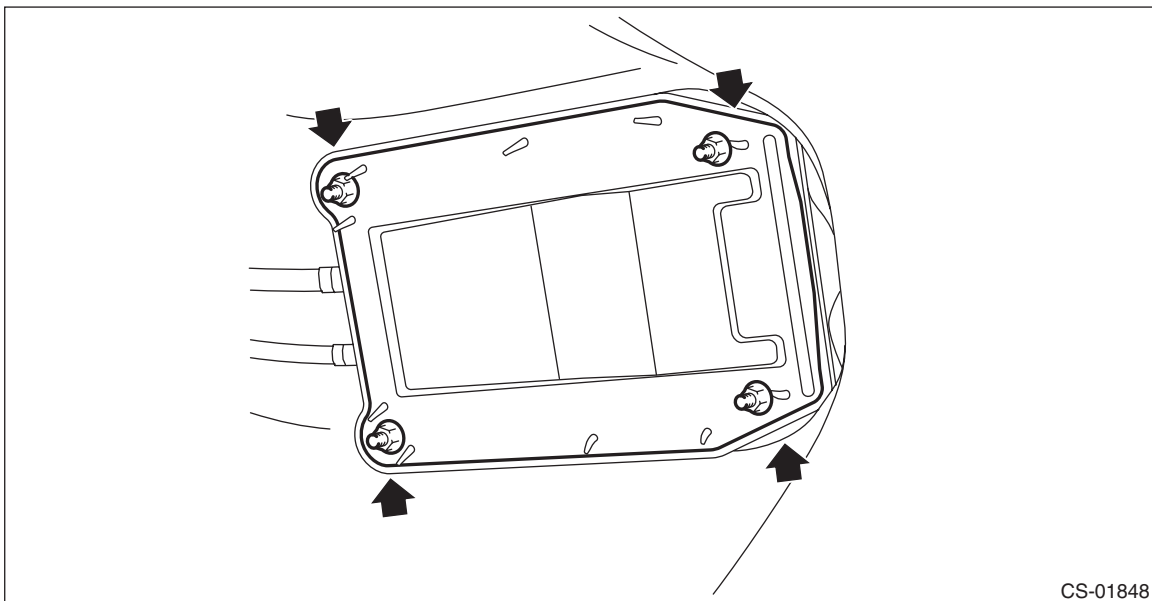


7) Connect the MT gear select cable.

8) Attach the cable cover plate.

**Tightening torque:**

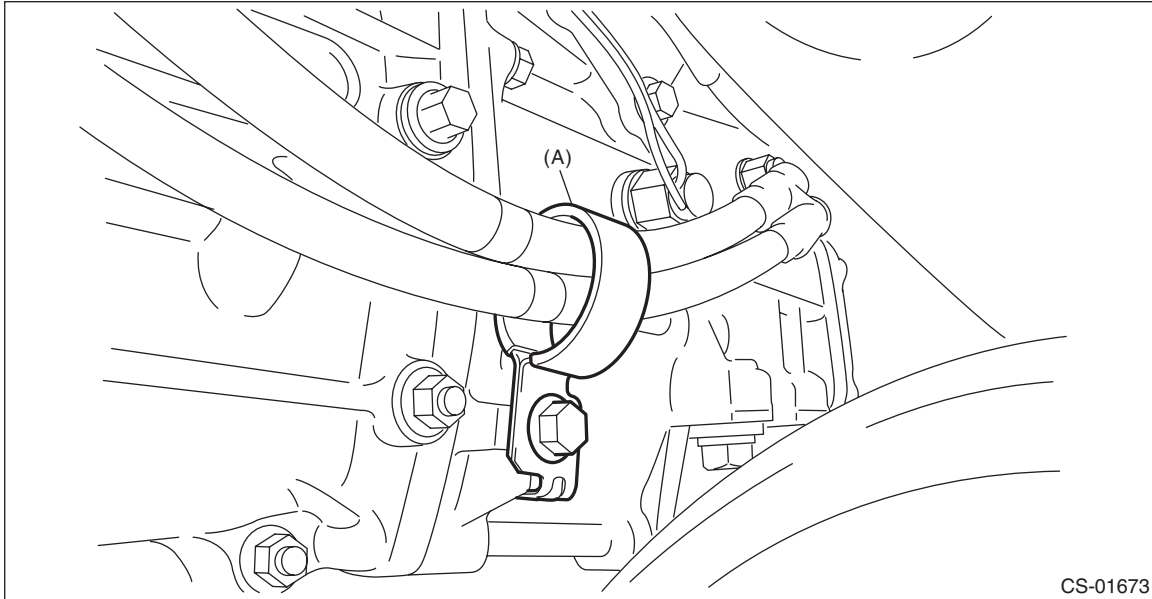
**7.5 N·m (0.8 kgf-m, 5.5 ft-lb)**



9) Insert the MT gear select cable into cable clamp, and install to the transmission.

**Tightening torque:**

**18 N·m (1.8 kgf-m, 13.3 ft-lb)**



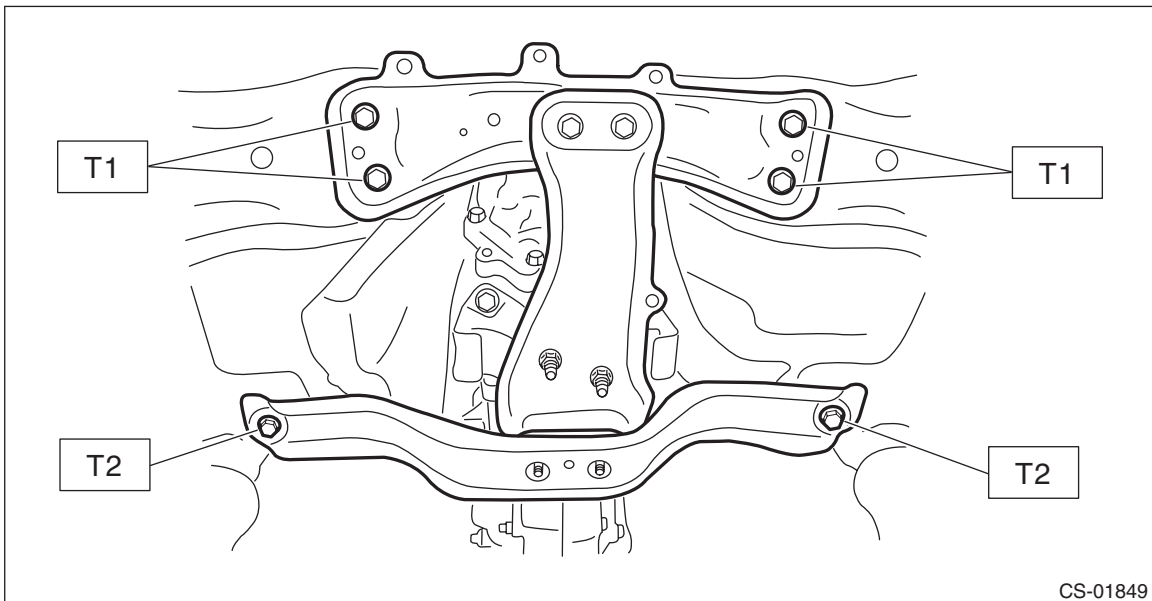
(A) Cable clamp

10) Raise the transmission jack, install the front crossmember and rear crossmember.

**Tightening torque:**

**T1: 70 N·m (7.1 kgf-m, 51.6 ft-lb)**

**T2: 140 N·m (14.3 kgf-m, 103.3 ft-lb)**



CS-01849

11) Take out the transmission jack.

12) Install the propeller shaft. <Ref. to DS-14, INSTALLATION, Propeller Shaft.>

13) Install the center exhaust cover.

**Tightening torque:**

**18 N·m (1.8 kgf-m, 13.3 ft-lb)**

14) Install the center exhaust pipe (rear). <Ref. to EX(w/o STI)-41, INSTALLATION, Center Exhaust Pipe.>

15) Lower the vehicle.

## MT Gear Select Cable

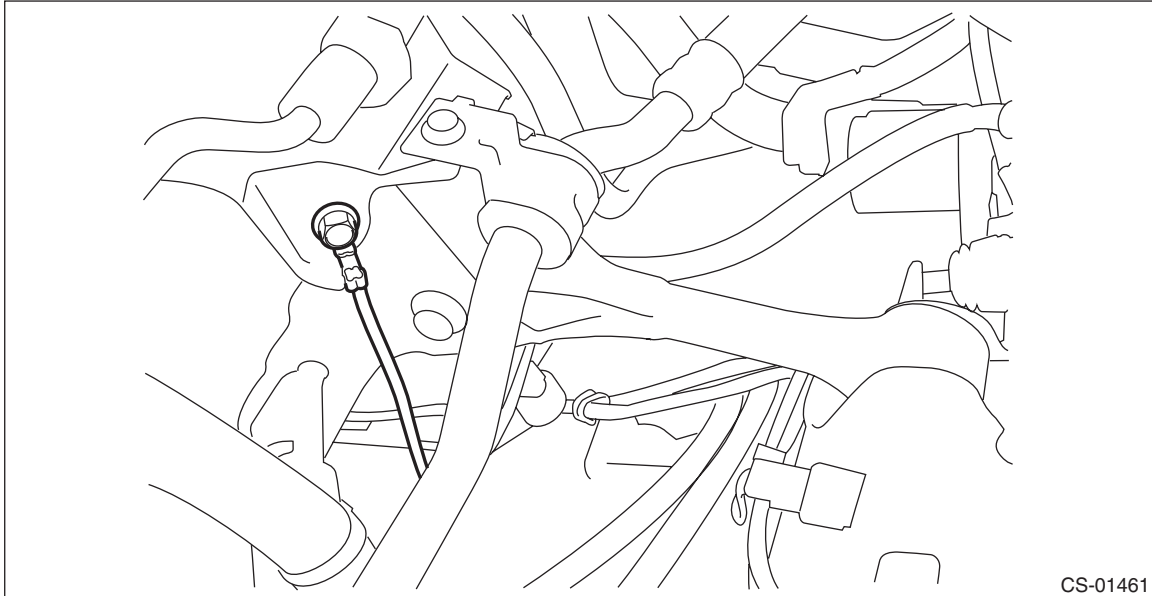
### CONTROL SYSTEMS

16) Install the pitching stopper. <Ref. to 6MT(TY85)-29, PITCHING STOPPER, INSTALLATION, Transmission Mounting System.>

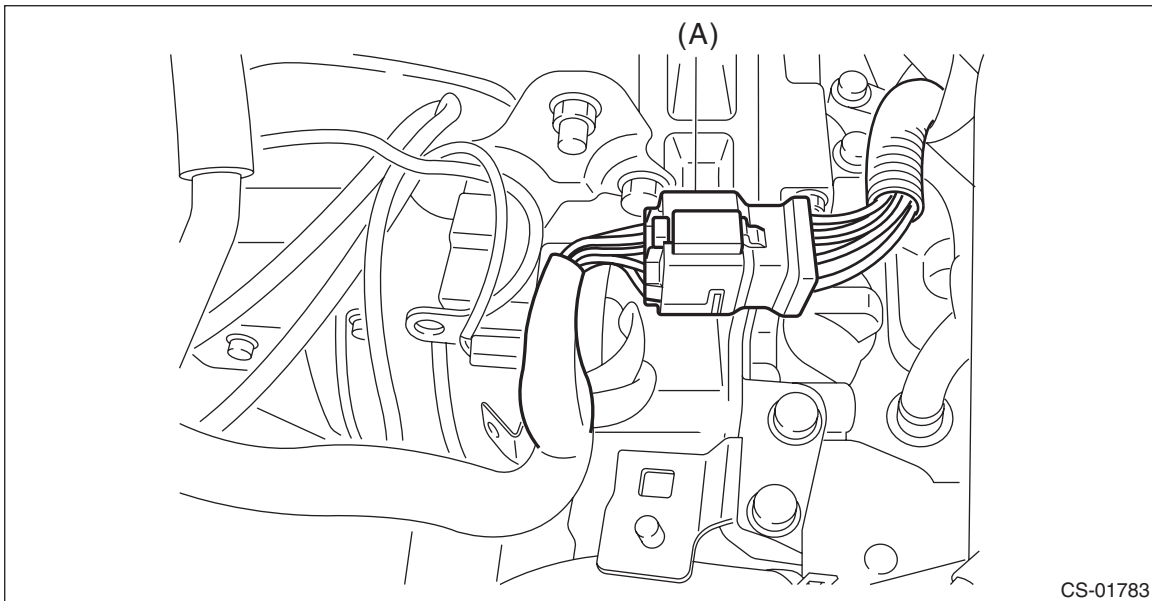
17) Install the transmission radio ground cord terminal.

#### **Tightening torque:**

**13 N·m (1.3 kgf-m, 9.6 ft-lb)**



18) Connect the engine harness connector.



(A) Engine harness connectors

19) Install the intercooler stay and the intercooler. <Ref. to IN(w/o STI)-41, INSTALLATION, Intercooler.>

20) Install the air intake duct. <Ref. to IN(w/o STI)-22, INSTALLATION, Air Intake Duct.>

21) Connect the ground terminal to battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>

22) Adjust the detent of the MT gear shift lever. <Ref. to CS-82, ADJUSTMENT, MT Gear Shift Lever.>

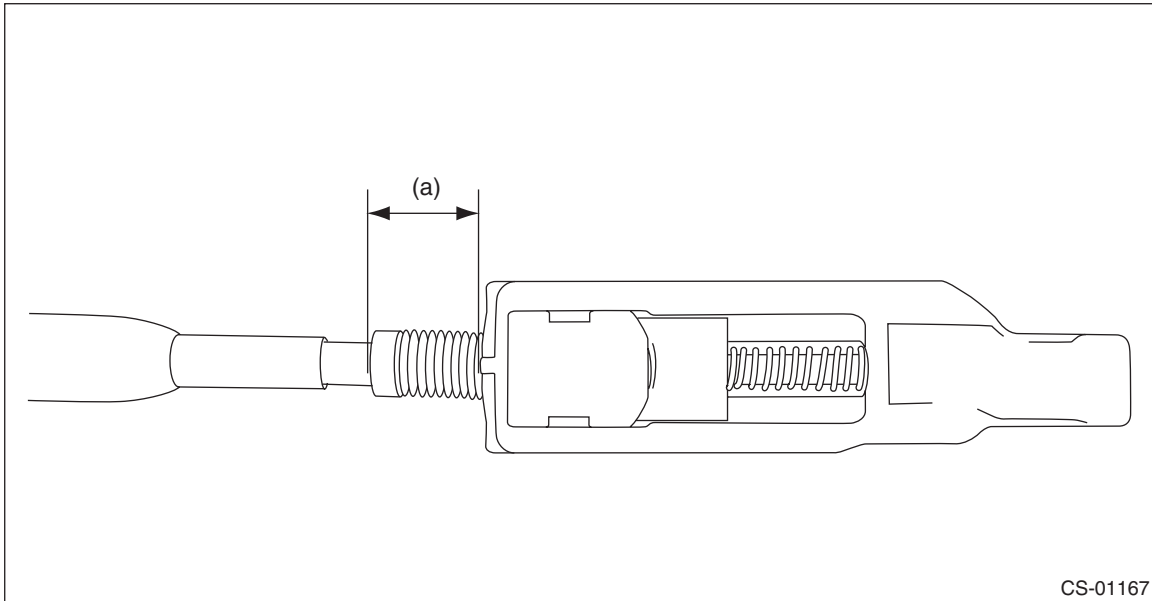
23) Make sure the gears can be shifted accurately into each gear.

## C: INSPECTION

1) Check that exposed length (a) of MT gear select cable is within specification.

**Exposed length (a) of MT gear select cable:**

**Specification: 11 mm (0.4 in)**



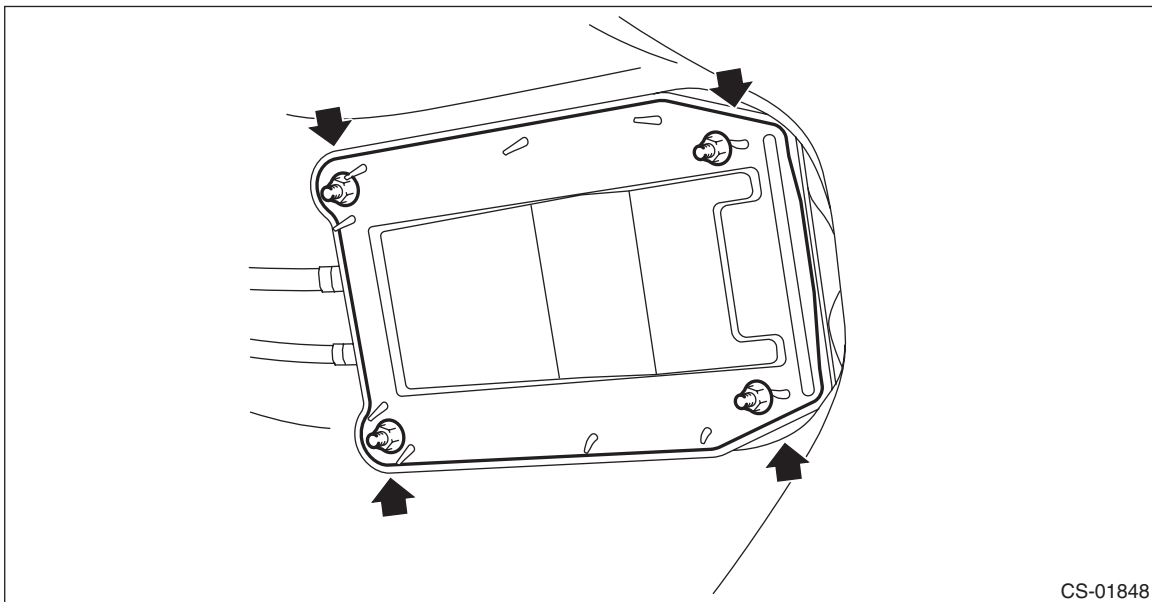
2) If it is not within the specification, perform the adjustment. <Ref. to CS-105, ADJUSTMENT, MT Gear Select Cable.>

## D: ADJUSTMENT

NOTE:

Two persons are required to perform the MT gear select cable adjustment. (Only the step 7) requires two workers.)

- 1) Loosen the detent bolt of the MT gear shift lever. <Ref. to CS-82, ADJUSTMENT, MT Gear Shift Lever.>
- 2) Move the shift lever to the 6th.
- 3) Remove the cable cover plate.



## MT Gear Select Cable

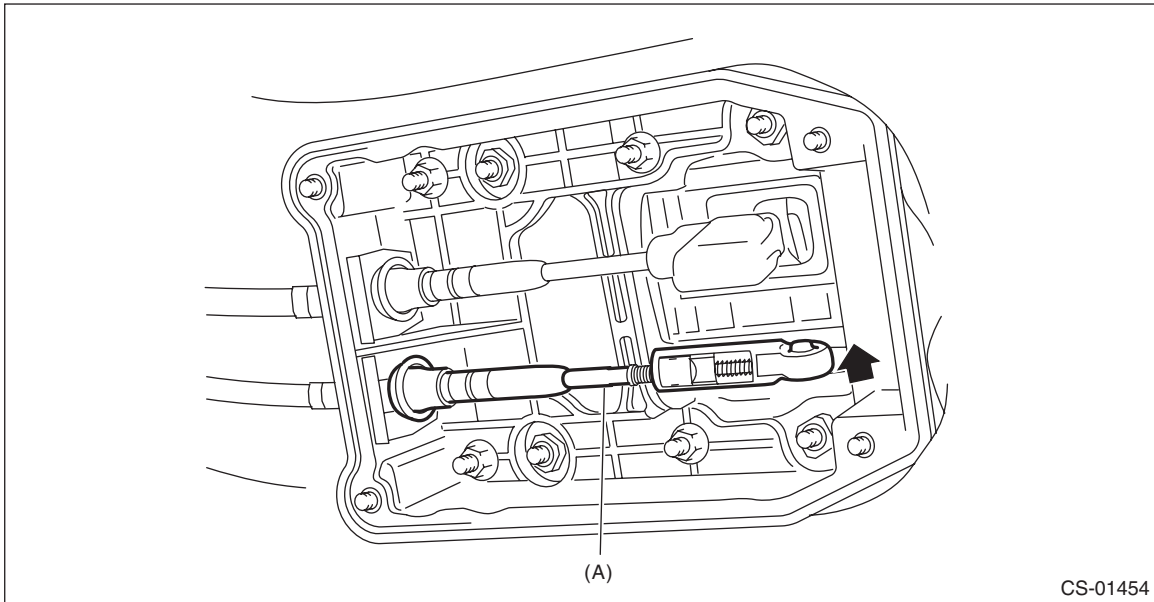
### CONTROL SYSTEMS

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4) Disconnect the MT gear select cable.

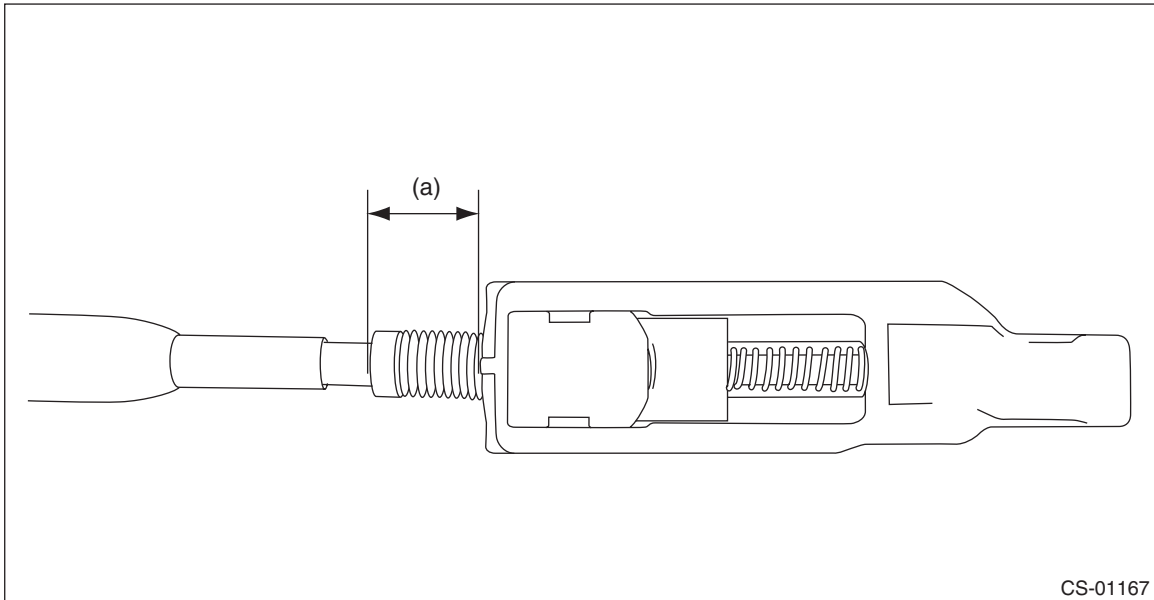
**NOTE:**

Push the MT gear select cable in the direction of arrow, and remove it.



(A) MT gear select cable

5) Measure the exposed length (a) of MT gear select cable.



(a) Measurement value

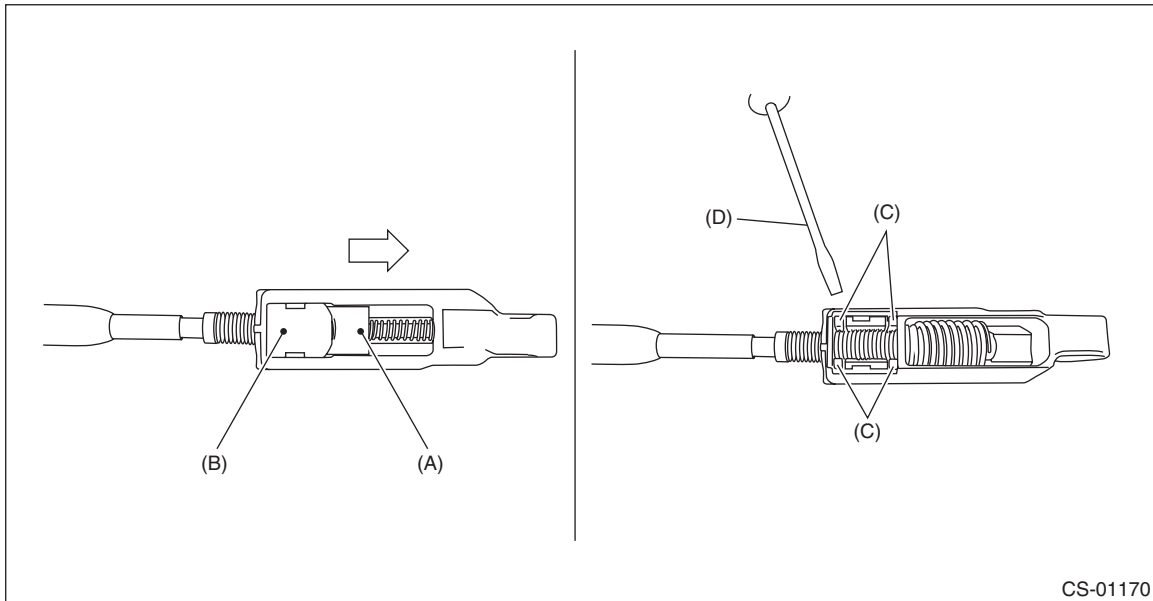
6) Slide the slider (green) in the direction of the arrow and release the lock piece (pink) by using flat tip screwdriver etc.

**CAUTION:**

**Lock piece is easily damaged for the resin. When the lock piece is broken, replace the new MT gear select cable.**

**NOTE:**

Rotate the MT gear select cable to 180 degrees, slide the slider in the direction of the arrow and push the claw of lock piece.



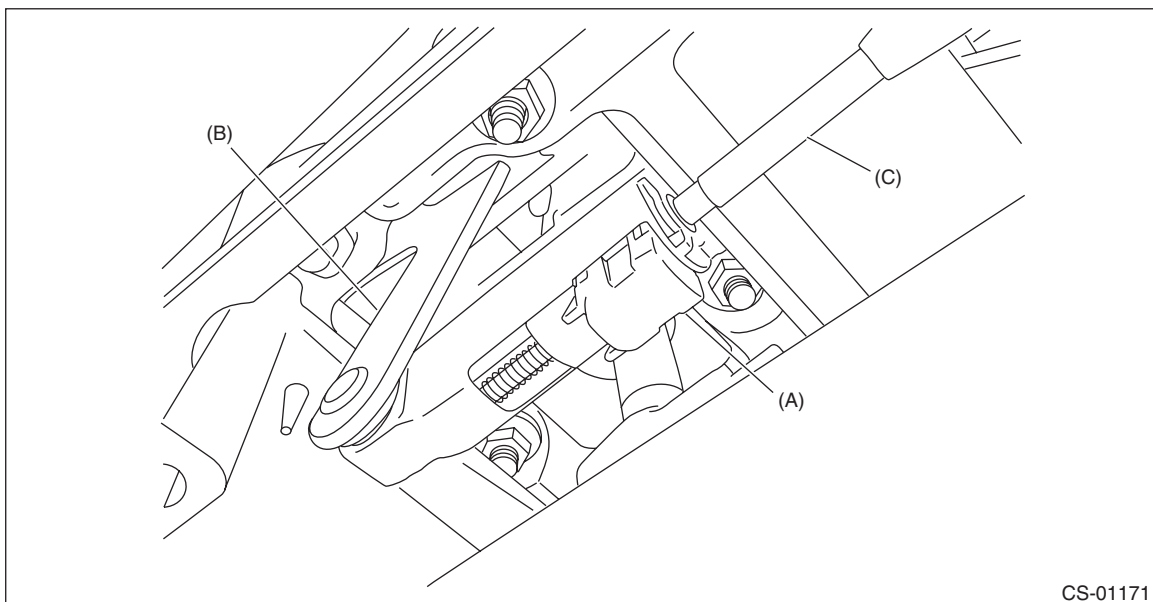
(A) Slider

(C) Claw

(D) Flat tip screwdriver

(B) Lock piece

7) Connect the MT gear select cable to the select lever, with the lock piece released.



(A) Lock piece

(B) Select lever

(C) MT gear select cable

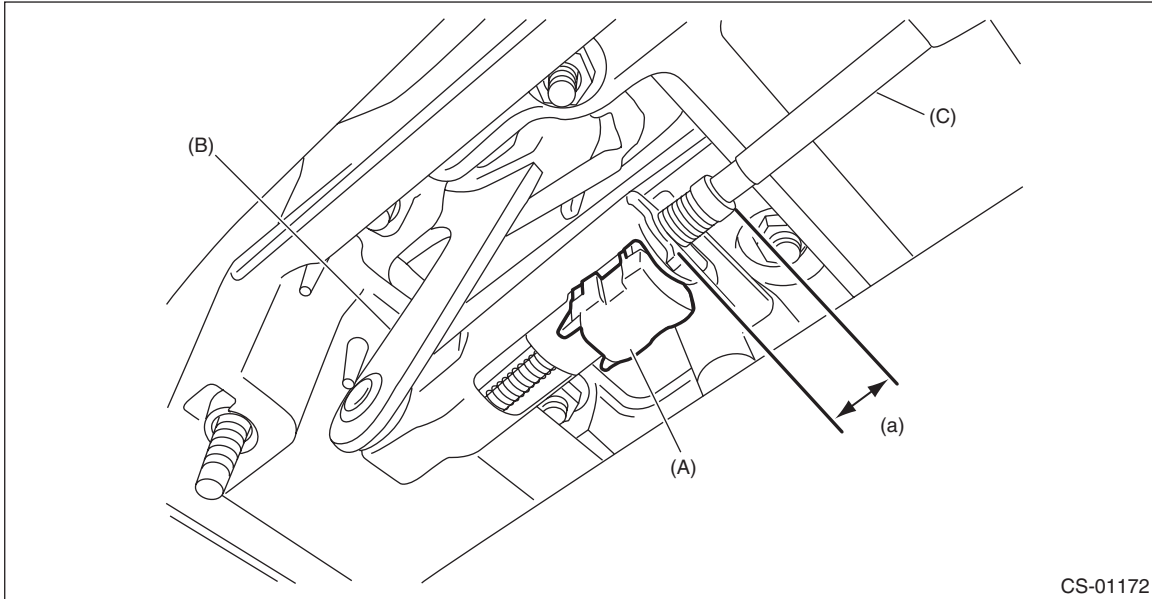
## MT Gear Select Cable

### CONTROL SYSTEMS

8) Move the shift lever to the reverse side, keep the exposed length (a) of MT gear select cable to 11 mm (0.4 in), and push the lock piece.

#### NOTE:

Pull up the slider of the gear shift lever assembly, move to the Rev side.



(a) Exposed length 11 mm (0.4 in)

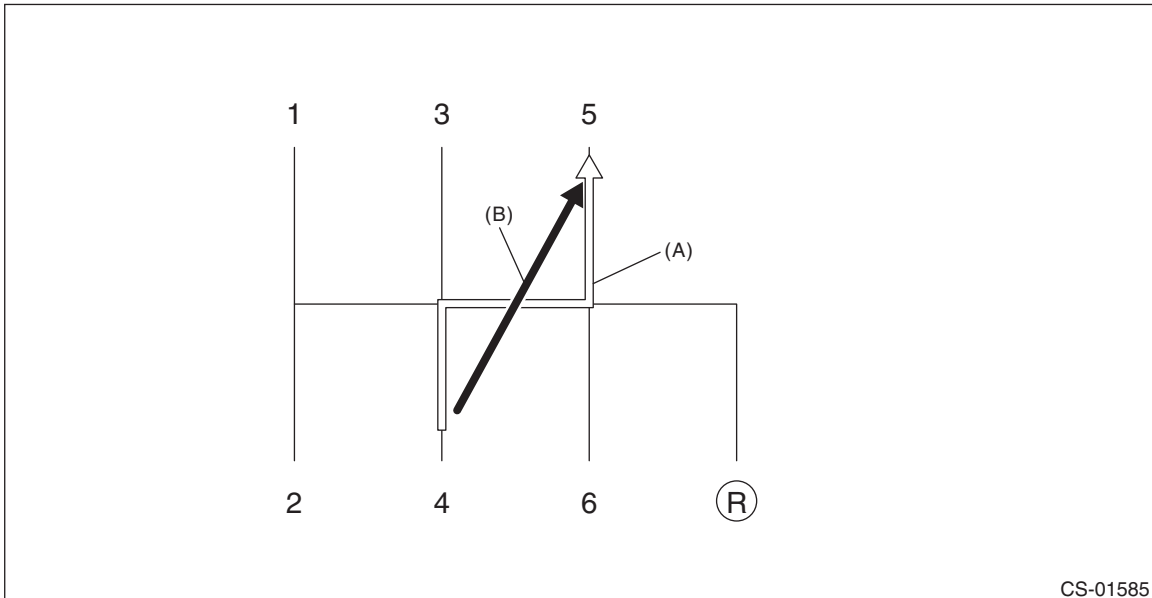
(A) Lock piece

(B) Select lever

(C) MT gear select cable

9) Shift to 5th  $\longleftrightarrow$  6th and Rev, and check for stuck.

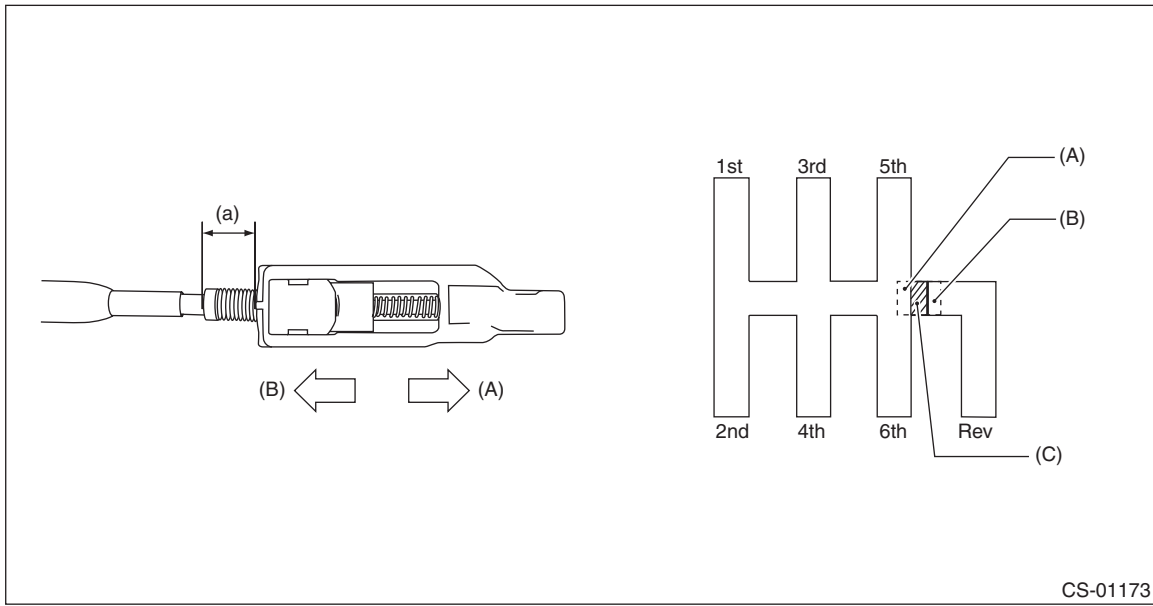
10) Check that the shift lever can move along the cranking line when operating the lever from 4th to 5th gear with a load applied toward the 6th gear.



(A) Cranking operation

(B) Load direction

11) If the shifting operation is not smooth, readjust the exposed length (a) of MT gear select cable by referring to the following figure.



(a) Exposed length of MT gear select cable

(A) Extend direction of exposed length of MT gear select cable

(B) Shorten direction of exposed length of MT gear select cable

(C) Specification of exposed length (a)

- If the shift cannot be inserted to push the reverse lock bracket 5th and 6th.  
⇒ Extend the exposed length (a) of MT gear select cable.
- When operate the select lever to 4th → 5th, it cannot be operated at select lever crank line.  
⇒ Shorten the exposed length (a) of MT gear select cable.

## NOTE:

If it cannot adjust, replace the MT gear select cable.

12) Adjust the detent of the MT gear shift lever. <Ref. to CS-82, ADJUSTMENT, MT Gear Shift Lever.>

13) If no fault is found in the shift and select operation, restore the vehicle.