

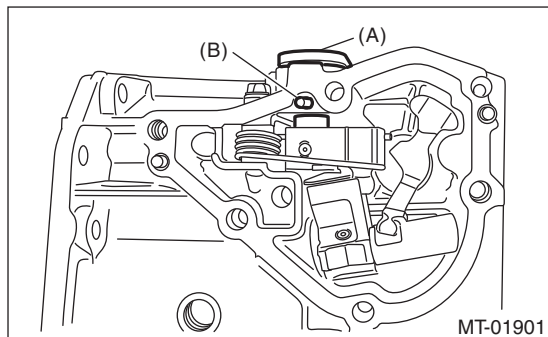
# Shift Link Assembly

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 13.Shift Link Assembly

#### A: REMOVAL

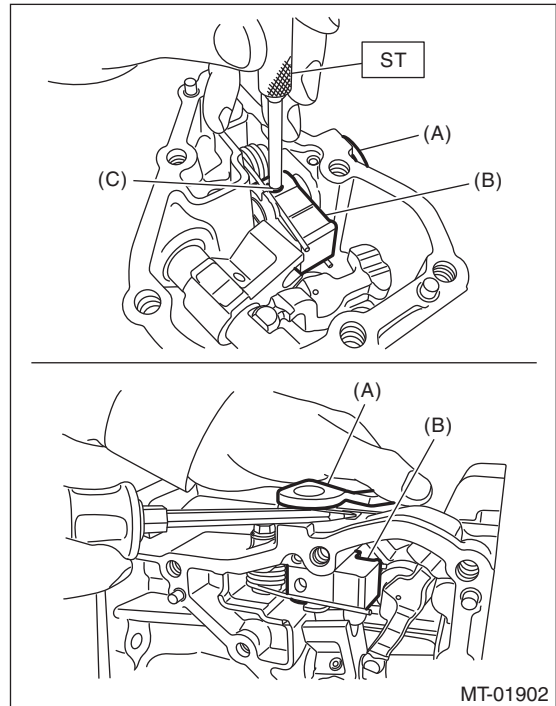
- 1) Remove the manual transmission assembly from the vehicle. <Ref. to 6MT-24, REMOVAL, Manual Transmission Assembly.>
- 2) Remove the back-up light switch neutral position switch. <Ref. to 6MT-36, REMOVAL, Switches and Harness.>
- 3) Remove the transfer case together with the extension case assembly. <Ref. to 6MT-39, REMOVAL, Transfer Case and Extension Case Assembly.>
- 4) Remove the extension case assembly.
- 5) Pull out the straight pin.



- (A) Selector lever COMPL
- (B) Straight pin

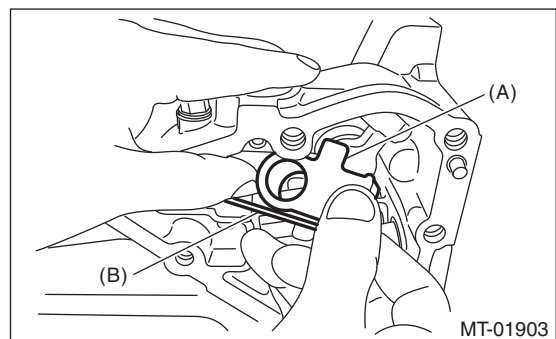
- 6) Drive out the spring pin by tapping with the ST, and remove the select lever COMPL.

ST 398791700 SPRING PIN REMOVER 2



- (A) Selector lever COMPL
- (B) Selector arm No. 2
- (C) Spring pin

- 7) Pull out the selector arm No. 2 from neutral set spring.

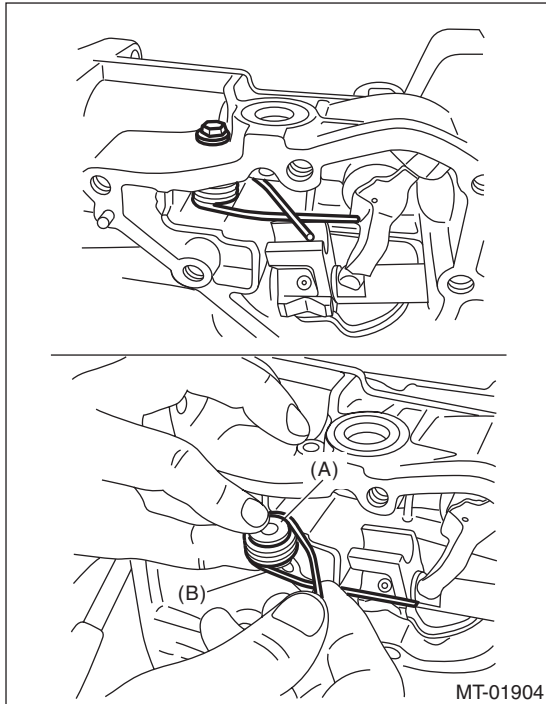


- (A) Selector arm No. 2
- (B) Neutral set spring

# Shift Link Assembly

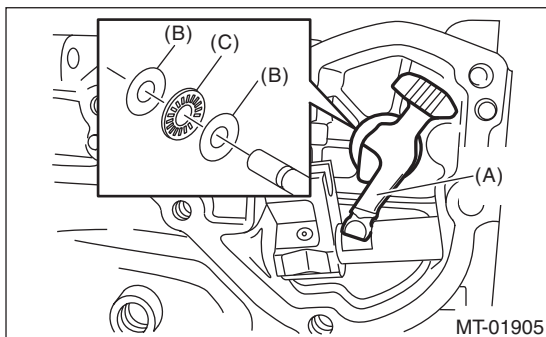
## MANUAL TRANSMISSION AND DIFFERENTIAL

8) Remove the shifter arm collar and neutral set spring from transfer case.



- (A) Shifter arm collar
- (B) Neutral set spring

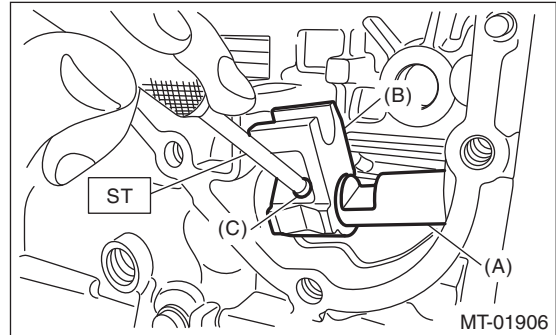
9) Remove the shifter arm No. 2, washers and thrust bearing from transfer case.



- (A) Shifter arm No. 2
- (B) Washer
- (C) Thrust bearing

10) Drive out the spring pin by tapping with the ST, and remove the shifter arm and selector arm.

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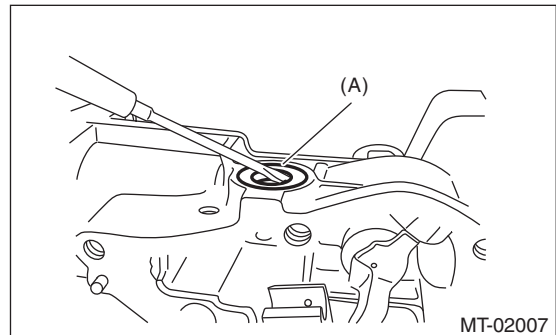


- (A) Shifter arm
- (B) Selector arm
- (C) Spring pin

11) Remove the oil seal from transfer case using a screwdriver.

### NOTE:

The illustration shows the oil seal of select lever COMPL. Perform the same procedures for removing the shifter arm No. 2.

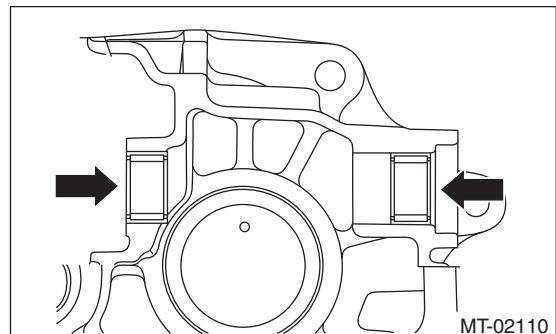


- (A) Oil seal

12) Remove the needle bearing from the transfer case.

### NOTE:

- Use the round bar with diameter of 20 — 21 mm (0.79 — 0.83 in).
- By pushing the flange surface (stamp mark side), press it into the transfer case to remove.



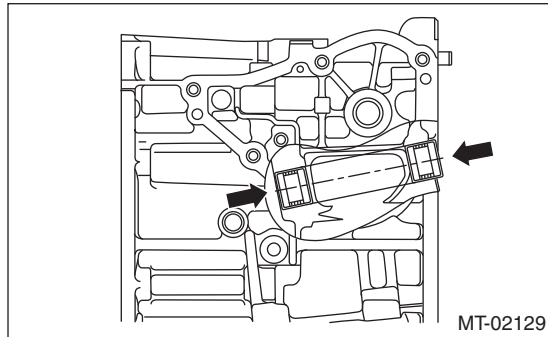
# Shift Link Assembly

## MANUAL TRANSMISSION AND DIFFERENTIAL

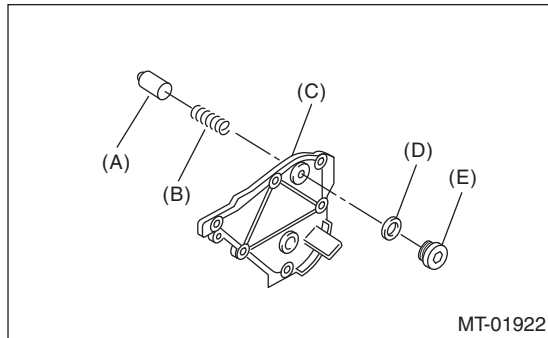
13) Remove the roll bearing from the transfer case.

**NOTE:**

Use the round bar with diameter of 22 — 23 mm (0.87 — 0.91 in).



14) Remove the plunger and check ball spring from transmission cover.



- (A) Plunger
- (B) Checking ball spring
- (C) Transmission cover
- (D) Seal ring
- (E) Seal bolt

## B: INSTALLATION

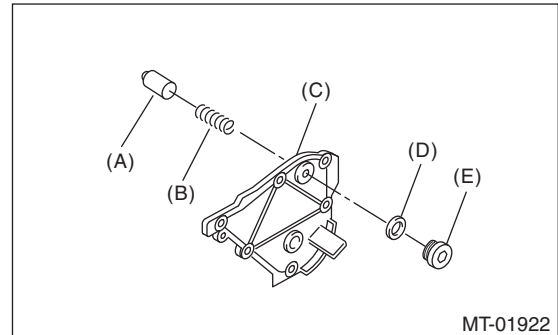
1) Install the plunger and check ball spring to transmission cover.

**NOTE:**

Use a new seal ring.

**Tightening torque:**

**25 N·m (2.5 kgf-m, 18.4 ft-lb)**



- (A) Plunger
- (B) Checking ball spring
- (C) Transmission cover
- (D) Seal ring
- (E) Seal bolt

2) Install the needle bearing to the transfer case.

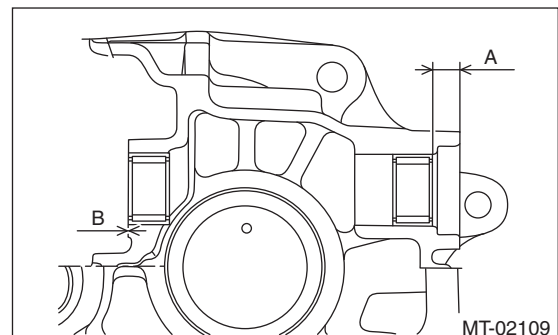
**NOTE:**

- Use the round bar with diameter of 20 — 21 mm (0.79 — 0.83 in).
- Press in by pushing the flange surface (stamp mark side).

**Press-fit depth of needle bearing:**

**A: -8.5 mm (-0.33 in) from the end of transfer case**

**B: -0.2 mm (-0.01 in) from the end of transfer case**



3) Install the roll bearing to the transfer case.

**NOTE:**

Use the round bar with diameter of 22 — 23 mm (0.87 — 0.91 in).

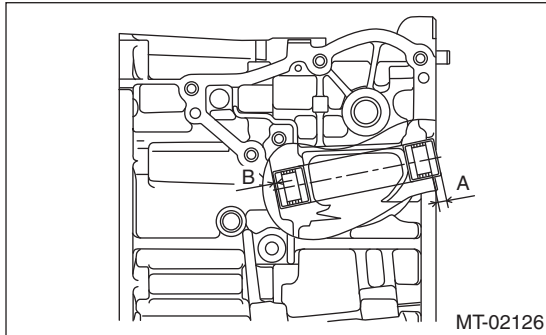
# Shift Link Assembly

MANUAL TRANSMISSION AND DIFFERENTIAL

## Press-fit depth of roll bearing:

**A: 5.1 mm (0.20 in) from the finished surface of transfer case**

**B: Align with the end of transfer case.**



4) Using the ST, install the oil seal to the transfer case.

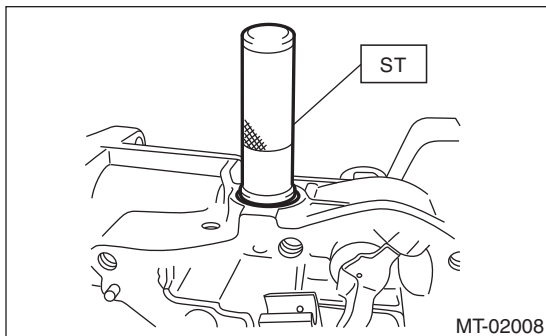
## NOTE:

- Use a new oil seal.
- The illustration shows the oil seal of selector lever COMPL. Perform the same procedures for installing the shifter arm No. 2.
- Apply transmission gear oil to the oil seal lips.

## Press-fit depth of oil seal:

**-1.0 mm (-0.04 in) from the end of transfer case**

ST 18657AA000 INSTALLER

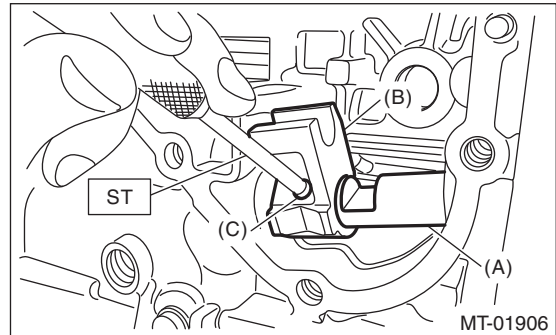


5) Insert the shifter arm into selector arm, then fix with a spring pin using the ST.

## NOTE:

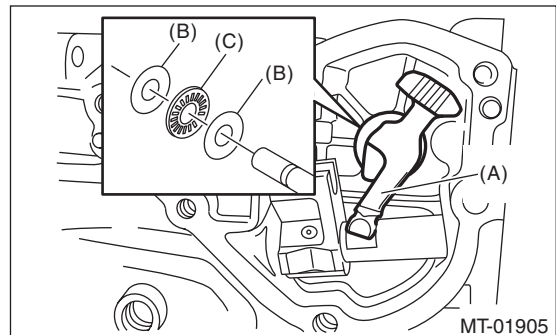
Use new spring pin.

ST 398791700 SPRING PIN REMOVER 2



- (A) Shifter arm
- (B) Selector arm
- (C) Spring pin

6) Install the shifter arm No. 2, washers and thrust bearing to transfer case.

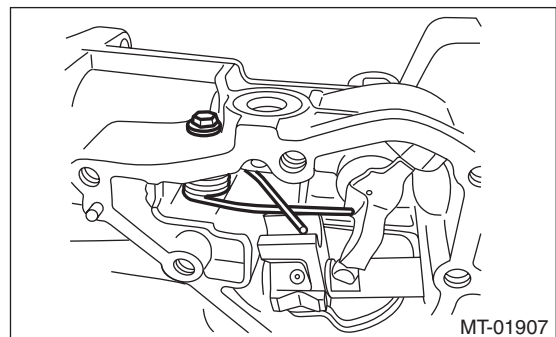


- (A) Shifter arm No. 2
- (B) Washer
- (C) Thrust bearing

7) Install the shifter arm collar and neutral set spring to transfer case.

## Tightening torque:

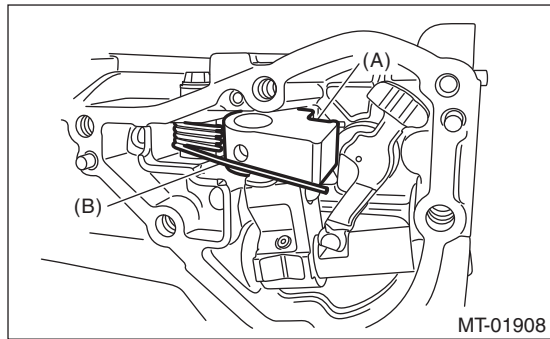
**6.4 N·m (0.7 kgf-m, 4.7 ft-lb)**



## Shift Link Assembly

### MANUAL TRANSMISSION AND DIFFERENTIAL

8) Install the selector arm No. 2 to neutral set spring.



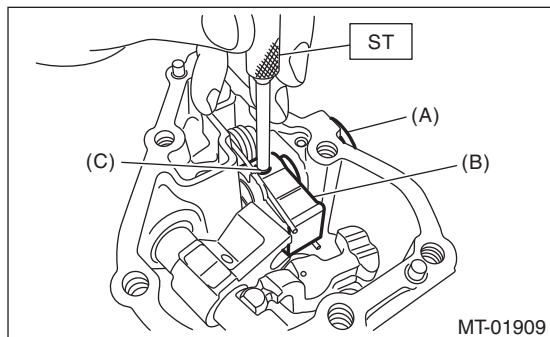
- (A) Selector arm No. 2
- (B) Neutral set spring

9) Insert the selector lever COMPL into selector arm No. 2, then fix with a spring pin using the ST.

#### NOTE:

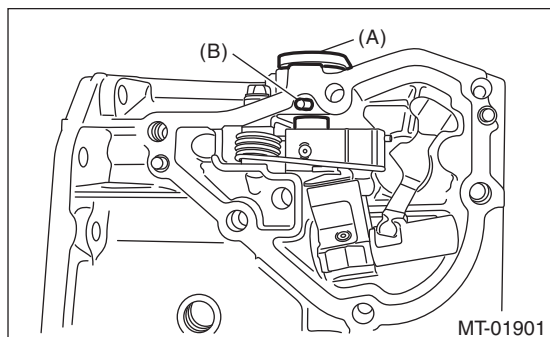
Use new spring pin.

ST 398791700 SPRING PIN REMOVER 2



- (A) Selector lever COMPL
- (B) Selector arm No. 2
- (C) Spring pin

10) Insert a new straight pin.

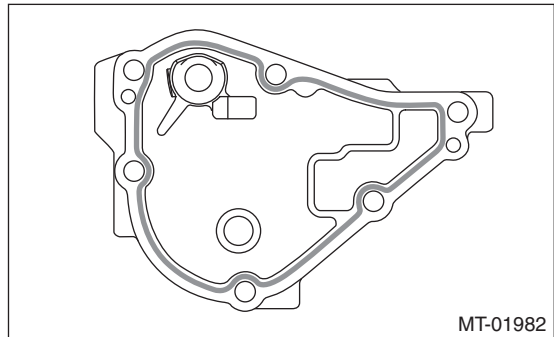


- (A) Selector lever COMPL
- (B) STRAIGHT PIN

11) Apply a proper amount of liquid gasket to the transmission cover mating surface.

#### Liquid gasket:

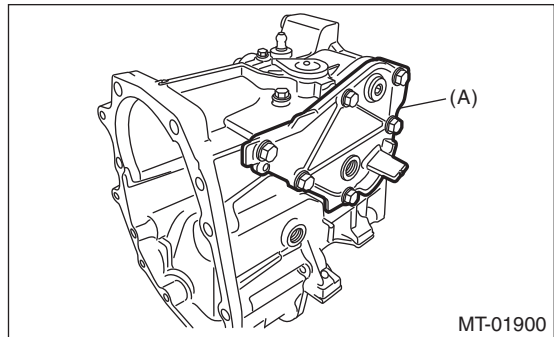
**THREE BOND 1215 (Part No. 004403007) or equivalent**



12) Install the transmission cover to transfer case.

#### Tightening torque:

**25 N·m (2.5 kgf-m, 18.4 ft-lb)**



- (A) Transmission cover

13) Install the extension assembly to the transfer case. <Ref. to 6MT-39, INSTALLATION, Transfer Case and Extension Case Assembly.>

14) Install the transfer case and the extension case assembly. <Ref. to 6MT-39, INSTALLATION, Transfer Case and Extension Case Assembly.>

15) Install the back-up light switch neutral position switch. <Ref. to 6MT-36, INSTALLATION, Switches and Harness.>

16) Install the manual transmission assembly to the vehicle. <Ref. to 6MT-28, INSTALLATION, Manual Transmission Assembly.>