

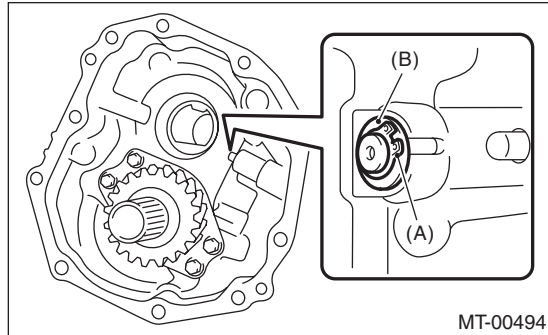
# Reverse Check System

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 12.Reverse Check System

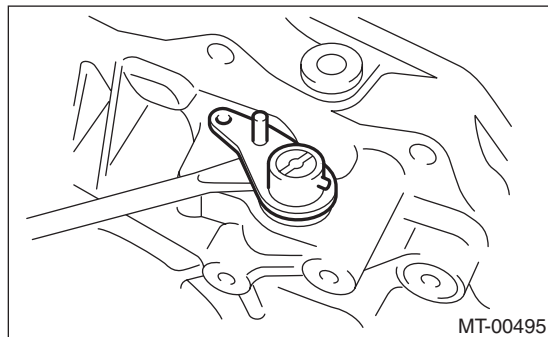
#### A: REMOVAL

- 1) Remove the manual transmission assembly from the vehicle. <Ref. to 6MT-31, REMOVAL, Manual Transmission Assembly.>
- 2) Prepare the transmission for overhaul. <Ref. to 6MT-37, Preparation for Overhaul.>
- 3) Remove the extension case. <Ref. to 6MT-43, REMOVAL, Extension Case.>
- 4) Remove the snap ring and washer from the reverse check shaft.

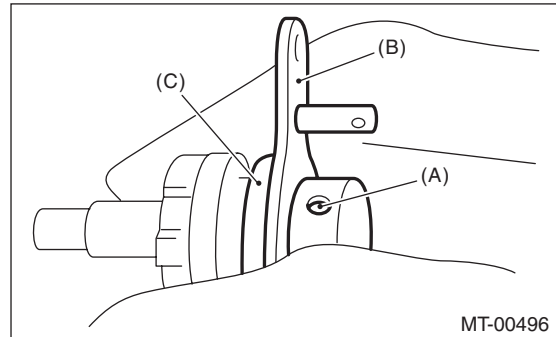


- (A) Snap ring
- (B) Washer

- 5) Remove the reverse check shaft and spring from the extension case.

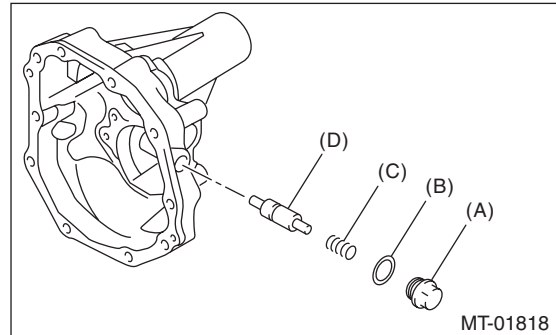


- 6) Remove the straight pin, and remove the reverse check lever and oil seal from the reverse check shaft.



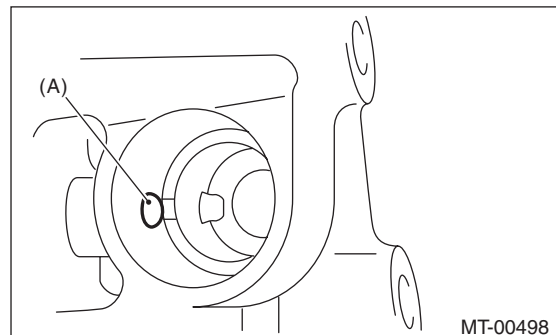
- (A) Straight pin
- (B) Reverse check lever
- (C) Oil seal

- 7) Remove the plug from the extension case, and remove the gasket, spring and plunger.



- (A) Plug
- (B) Gasket
- (C) Spring
- (D) Plunger

- 8) Remove the reverse lock plunger.



- (A) Reverse lock plunger

# Reverse Check System

## MANUAL TRANSMISSION AND DIFFERENTIAL

### B: INSTALLATION

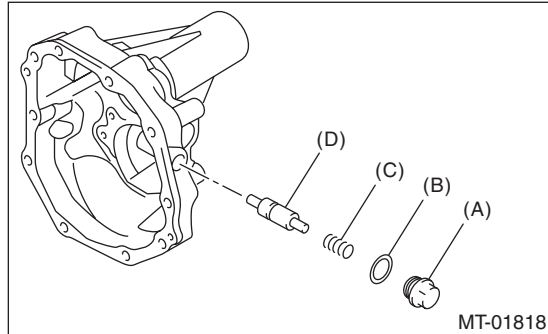
- 1) Insert the reverse lock plunger.
- 2) Install the reverse check plug, spring, gasket, and plug in order.

#### NOTE:

Use a new gasket.

#### Tightening torque:

**41 N·m (4.2 kgf-m, 30.2 ft-lb)**

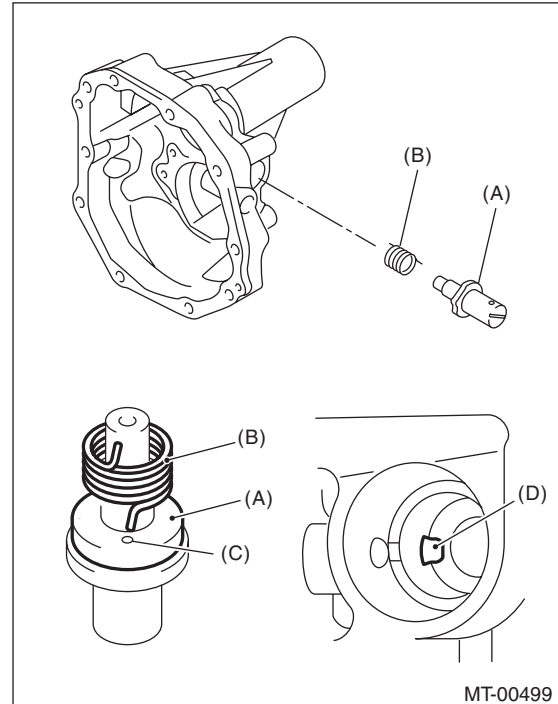


- (A) Plug
- (B) Gasket
- (C) Spring
- (D) Reverse check plug

- 3) Install the spring and reverse check shaft to the extension case.

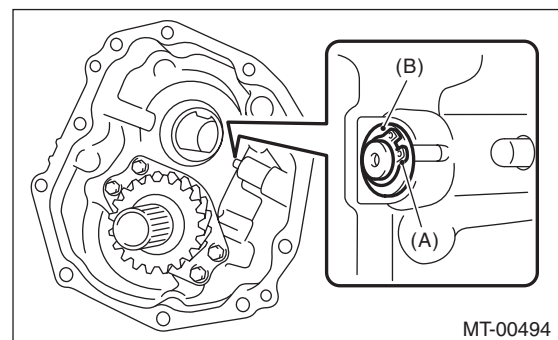
#### NOTE:

Confirm that the end of the spring matches the hole of the reverse check shaft and the cut out of the extension case.



- (A) Reverse check shaft
- (B) Spring
- (C) Hole
- (D) Cut out

- 4) Install the washer and snap ring.



- (A) Snap ring
- (B) Washer

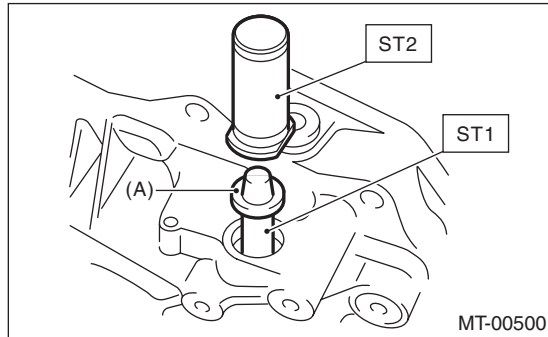
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## MANUAL TRANSMISSION AND DIFFERENTIAL

5) Attach ST1 to the reverse check shaft. Install the new oil seal, and push it in using ST2.

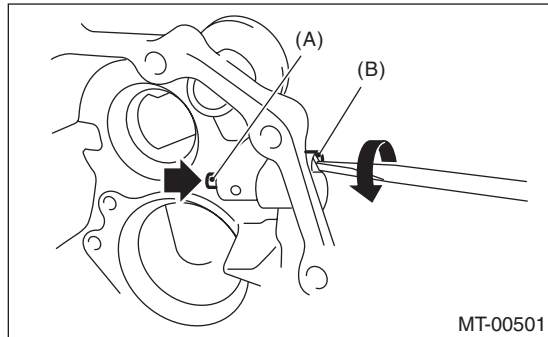
ST1 18671AA000 OIL SEAL GUIDE

ST2 18657AA010 INSTALLER



(A) Oil seal

6) Insert the reverse check lever, and turn the reverse check shaft until the plunger is first pushed in.



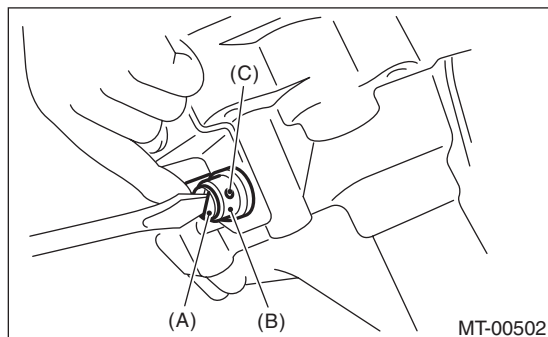
(A) Plunger

(B) Reverse check shaft

7) Match the hole of the reverse check lever and the reverse check shaft, and attach the straight pin.

NOTE:

Use a new straight pin.



(A) Reverse check shaft

(B) Reverse check lever

(C) Hole

8) Check that the reverse check is operating correctly. <Ref. to 6MT-52, INSPECTION, Reverse Check System.>

9) Install the extension case. <Ref. to 6MT-43, INSTALLATION, Extension Case.>

10) Install the manual transmission assembly to the vehicle. <Ref. to 6MT-33, INSTALLATION, Manual Transmission Assembly.>

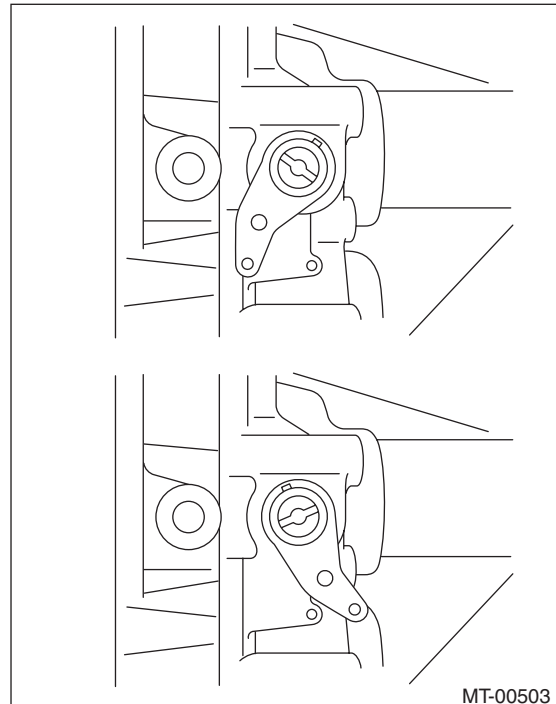
## C: INSPECTION

1) Check that there is no damage on any parts.  
2) Check that the reverse check lever is operating smoothly.

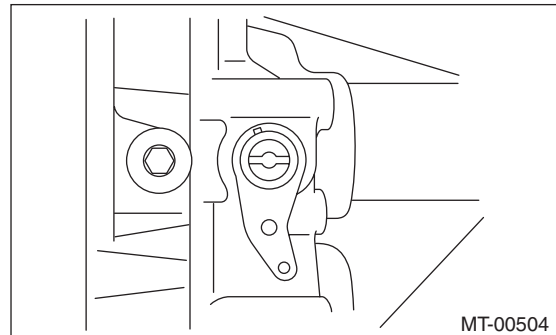
3) Inspect that there is no oil leak at the oil seal section of the reverse check shaft. If there is oil leakage, replace the oil seal.

4) Check the operation of the reverse check.

(1) When the reverse check lever is in the following position, the plunger is pressed, or the gear can shift into reverse.



(2) When the reverse check lever is in the following position, the plunger is not pressed, or the gear cannot shift into reverse.



5) If it is not as specified, reassemble the reverse check system.