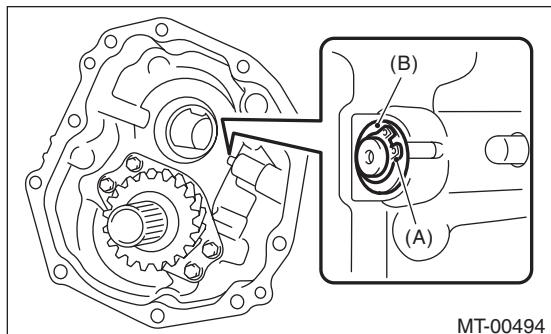


14. Reverse Check System

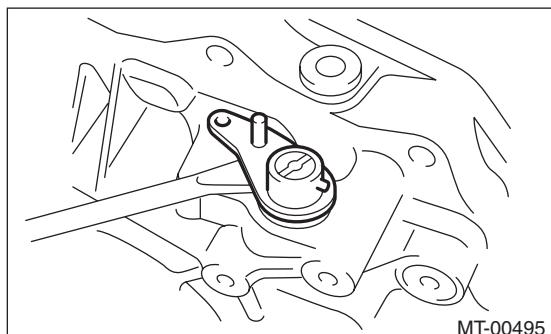
A: REMOVAL

- 1) Remove the manual transmission assembly from the vehicle. <Ref. to 6MT(TY85)-31, REMOVAL, Manual Transmission Assembly.>
- 2) Prepare the transmission for overhaul. <Ref. to 6MT(TY85)-38, Preparation for Overhaul.>
- 3) Remove the extension case. <Ref. to 6MT(TY85)-42, REMOVAL, Extension Case.>
- 4) Remove the snap ring and washer from the reverse check shaft.

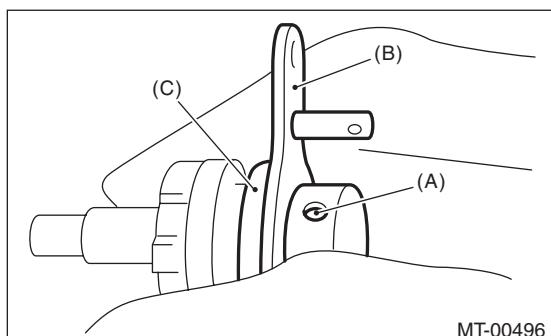


(A) Snap ring
(B) Washer

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

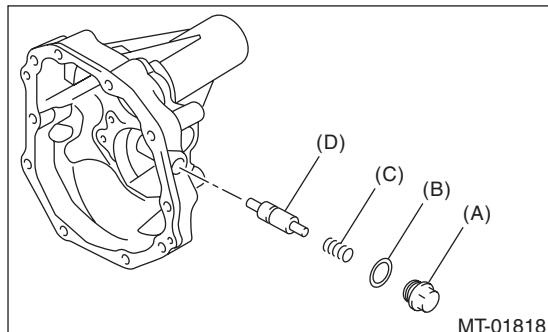


- 6) Remove the straight pin, and remove the reverse check lever and oil seal from the reverse check shaft.



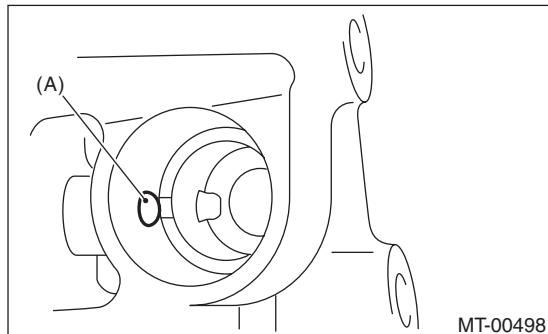
(A) Straight pin
(B) Reverse check lever
(C) Oil seal

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



(A) Plug
(B) Gasket
(C) Spring
(D) Reverse check 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 plunger, spring, gasket and plug in order.

NOTE:

Use a new gasket.

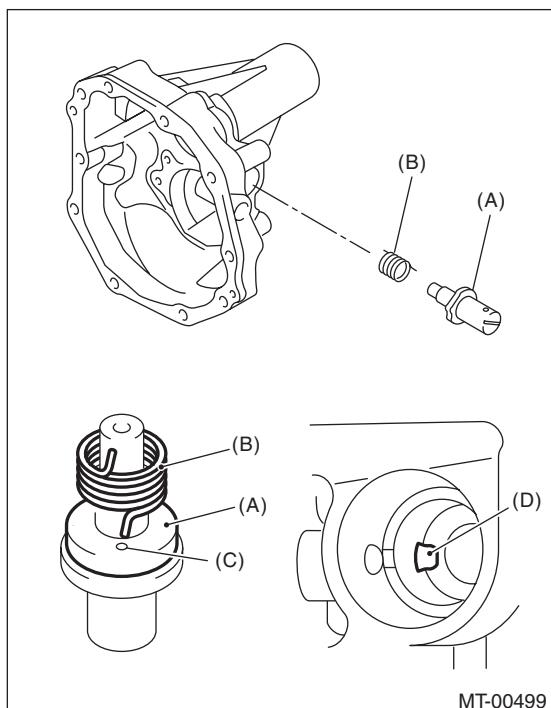
Tightening torque:

41 N·m (4.2 kgf·m, 30.2 ft-lb)

- 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.

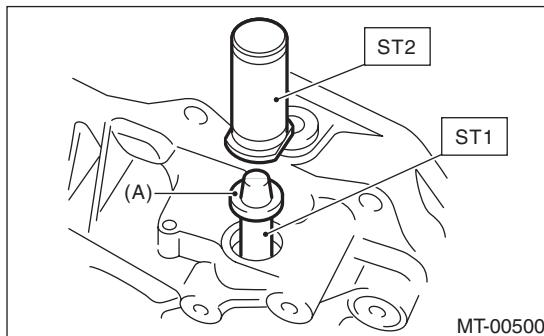


- (A) Reverse check shaft
- (B) Spring
- (C) Hole
- (D) Cut out

- 4) Install the washer and snap ring.

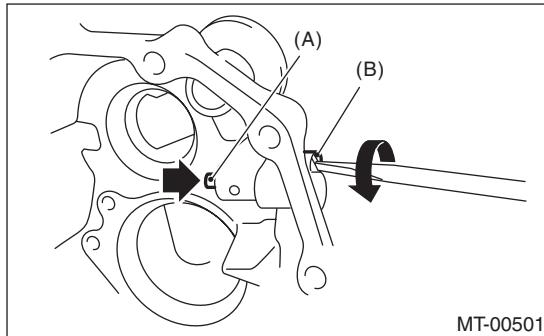
- 5) Attach ST1 to the reverse check shaft. Install the new oil seal, and push it in using ST2.

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.

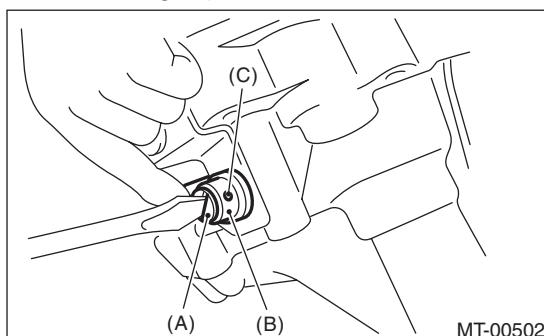


(A) Plunger
(B) Reverse check shaft

- 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.



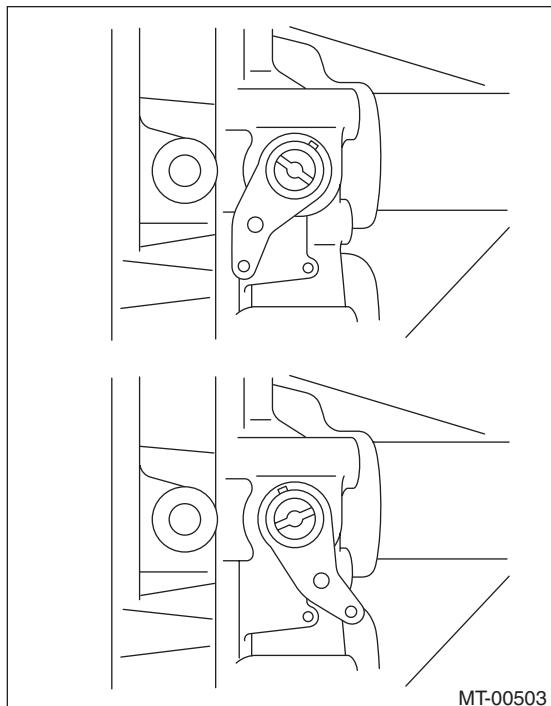
(A) Reverse check shaft
(B) Reverse check lever
(C) Hole

- 8) Check that the reverse check is operating correctly. <Ref. to 6MT(TY85)-51, INSPECTION, Reverse Check System.>
- 9) Install the extension case. <Ref. to 6MT(TY85)-42, INSTALLATION, Extension Case.>
- 10) Install the manual transmission assembly to the vehicle. <Ref. to 6MT(TY85)-33, INSTALLATION, Manual Transmission Assembly.>

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

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.

