

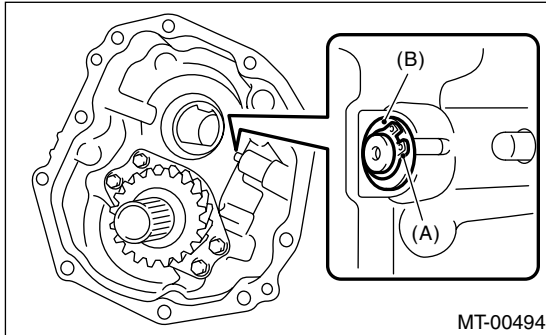
REVERSE CHECKING SYSTEM

MANUAL TRANSMISSION AND DIFFERENTIAL

13.Reverse Checking System

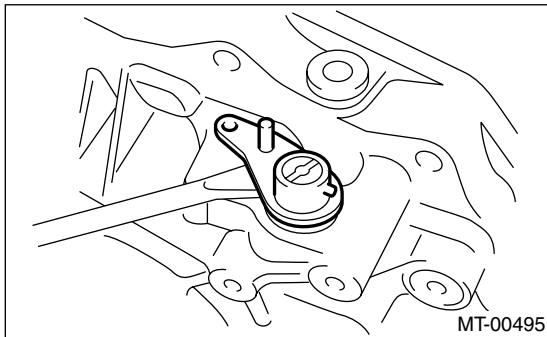
A: REMOVAL

- 1) Remove the manual transmission assembly from vehicle. <Ref. to 6MT-35, REMOVAL, Manual Transmission Assembly.>
- 2) Prepare the transmission for overhaul. <Ref. to 6MT-40, Preparation for Overhaul.>
- 3) Remove the extension case. <Ref. to 6MT-47, REMOVAL, Extension Case.>
- 4) Remove the snap ring and washer from reverse check shaft.



- (A) Snap ring
- (B) Washer

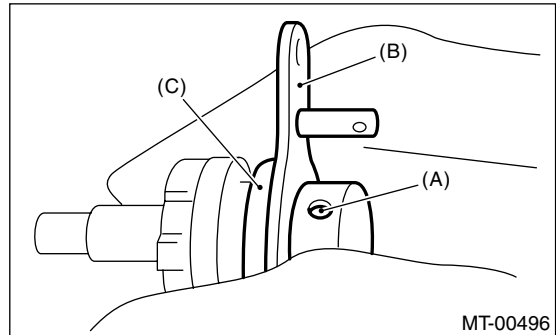
- 5) Remove the reverse check shaft and spring from extension case.



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

NOTE:

Do not reuse the oil seal.

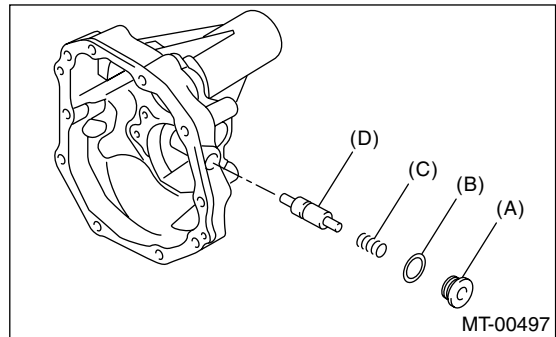


- (A) Spring pin
- (B) Reverse check lever
- (C) Oil seal

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

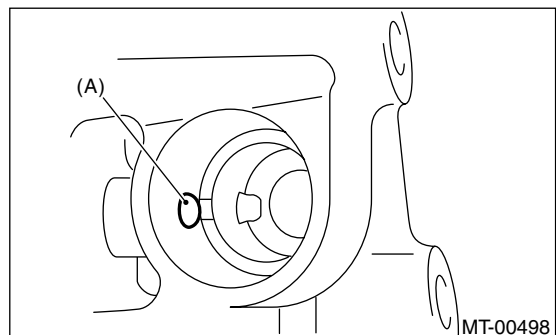
NOTE:

Do not reuse the gasket.



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

- 8) Remove the reverse lock plunger.



- (A) Reverse lock plunger

REVERSE CHECKING SYSTEM

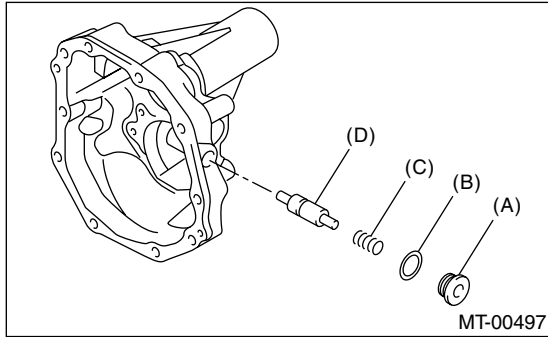
MANUAL TRANSMISSION AND DIFFERENTIAL

B: INSTALLATION

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

Tightening torque:

41 N·m (4.2 kgf-m, 30.2 ft-lb)

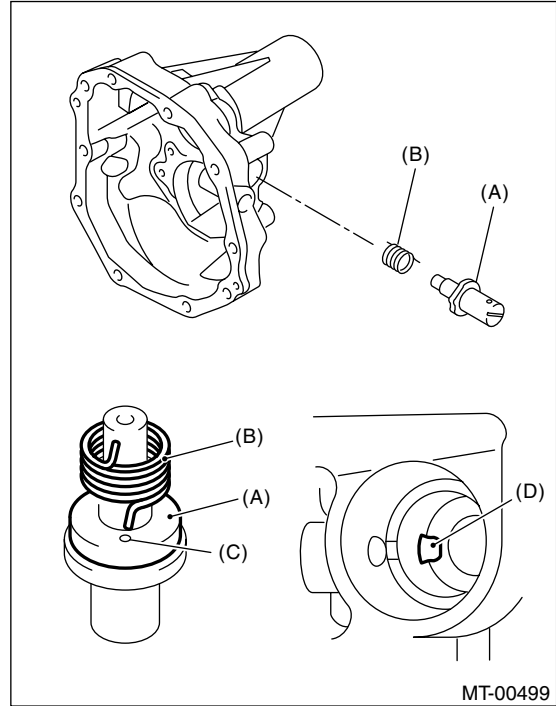


- (A) Plug
- (B) Gasket
- (C) Spring
- (D) Reverse check plug

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

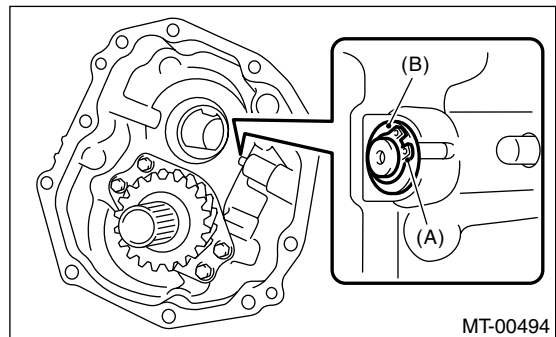
NOTE:

Be sure the spring end aligns with the hole of reverse check shaft and cutout portion of extension case.



- (A) Reverse check shaft
- (B) Spring
- (C) Hole
- (D) Cutout portion

- 4) Install the washer and snap ring.



- (A) Snap ring
- (B) Washer

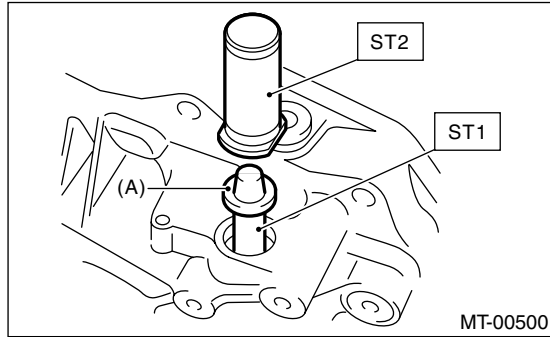
REVERSE CHECKING SYSTEM

MANUAL TRANSMISSION AND DIFFERENTIAL

5) Set the ST1 to reverse check shaft. Install a new oil seal, then press with ST2.

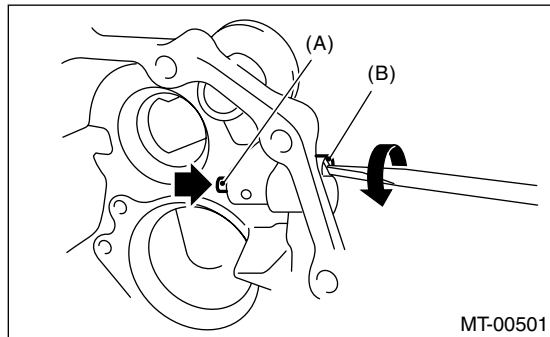
ST1 18671AA000 OIL SEAL GUIDE

ST2 18657AA010 INSTALLER



(A) Oil seal

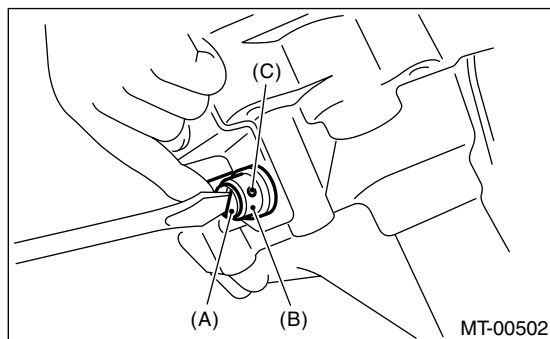
6) Insert the reverse check lever, then rotate the reverse check shaft until the plunger can be pushed in first.



(A) Plunger

(B) Reverse check shaft

7) Align the hole of reverse check lever and reverse check shaft, then install the spring pin.



(A) Reverse check shaft

(B) Reverse check lever

(C) Hole

8) Make sure the reverse check operates correctly. <Ref. to 6MT-55, INSPECTION, Reverse Checking System.>

9) Install the extension case. <Ref. to 6MT-47, INSTALLATION, Extension Case.>

10) Install the manual transmission assembly to vehicle. <Ref. to 6MT-37, INSTALLATION, Manual Transmission Assembly.>

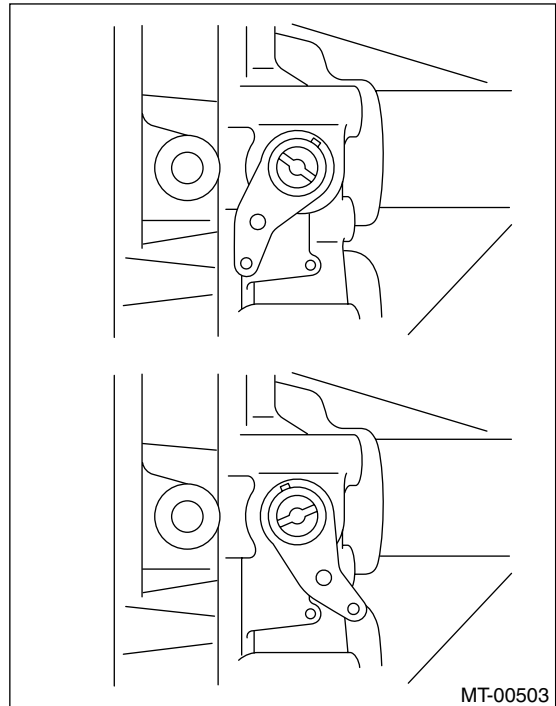
C: INSPECTION

1) Make sure there is no damage on each parts.
2) Make sure the reverse check lever operates smoothly.

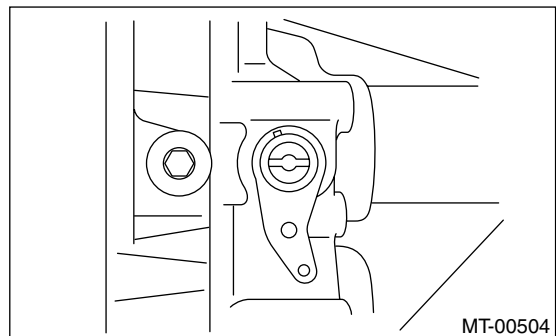
3) Make sure there is no oil leakage on oil seal part of reverse check shaft. If there is oil leakage, replace the oil seal.

4) Inspect the reverse check operation.

(1) The plunger can be pushed or the gear can be shifted to reverse, when reverse check lever is in the following position.



(2) The plunger cannot be pushed or the gear cannot be shifted to reverse, when reverse check lever is in the following position.



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