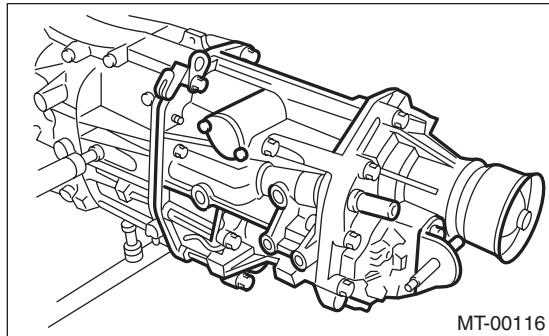


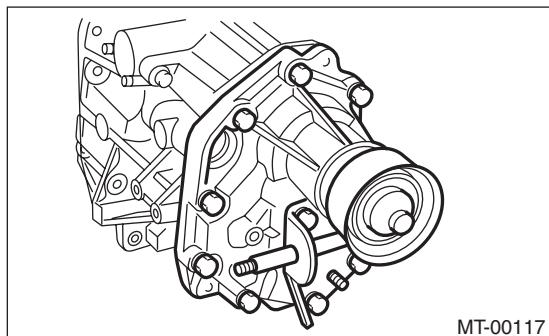
### 9. Transfer Case and Extension Case Assembly

#### A: REMOVAL

- 1) Remove the manual transmission assembly from the vehicle. <Ref. to 5MT-21, REMOVAL, Manual Transmission Assembly.>
- 2) Remove the back-up light switch and the neutral position switch. <Ref. to 5MT-32, REMOVAL, Switches and Harness.>
- 3) Remove the transfer case together with the extension case assembly.

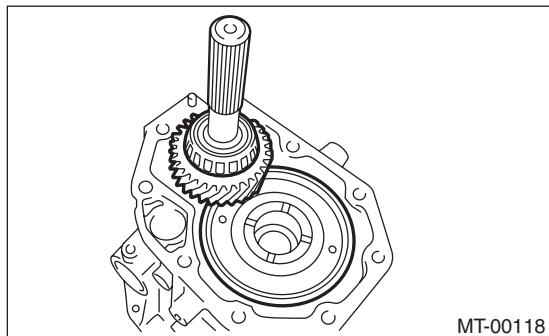


- 4) Remove the shifter arm.
- 5) Remove the extension case assembly.

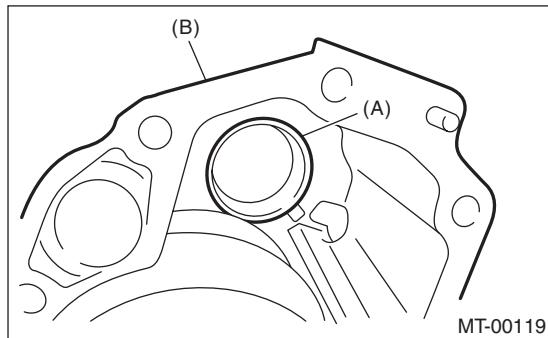


#### B: INSTALLATION

- 1) Install the center differential and transfer driven gear into the transfer case.

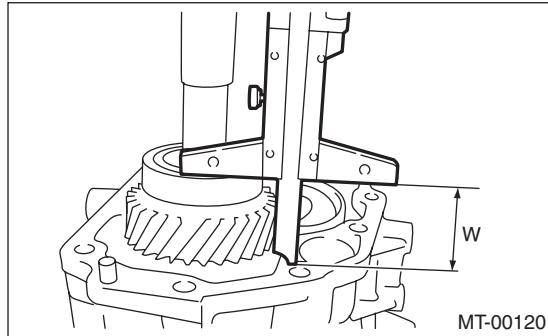


- 2) Remove the bearing outer race from the extension case.



(A) Bearing outer race  
(B) Extension case

- 3) While pressing the bearing outer race horizontally, rotate the driven shaft for ten turns.
- 4) Measure the height "W" between transfer case and taper roller bearing on the transfer driven gear.

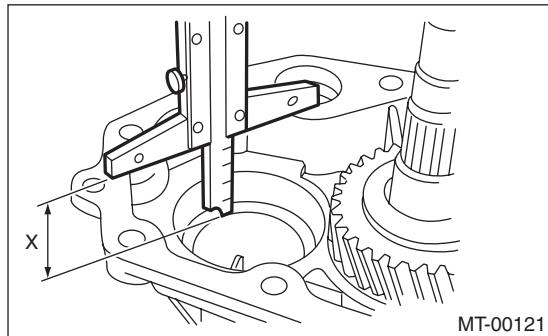


W Measured value

- 5) Measure depth "X" on bearing insertion part of the extension case.

#### NOTE:

Measure with bearing outer race and thrust washer removed.



X Measured value

- 6) Calculate the thrust washer thickness "t" using the following calculation.

$$t = X - W + (0.15 - 0.20 \text{ mm} (0.006 - 0.008 \text{ in}))$$

# Transfer Case and Extension Case Assembly

## MANUAL TRANSMISSION AND DIFFERENTIAL

7) Select the washer with the nearest value in the following table.

**Preload of the taper roller bearing (amount of standard protrusion):**

**0.15 — 0.20 mm (0.006 — 0.008 in)**

**NOTE:**

Be sure that it is always within the preload.

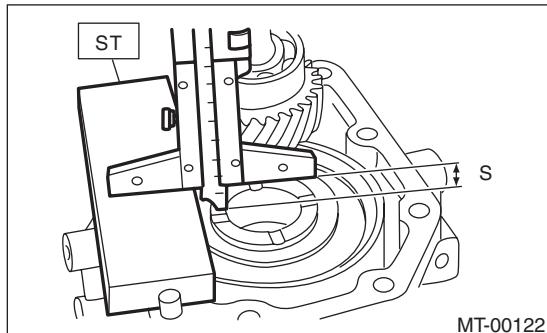
Thrust washer (50 × 61 × t)	
Part No.	Thickness mm (in)
803050060	0.50 (0.0197)
803050061	0.55 (0.0217)
803050062	0.60 (0.0236)
803050063	0.65 (0.0256)
803050064	0.70 (0.0276)
803050065	0.75 (0.0295)
803050066	0.80 (0.0315)
803050067	0.85 (0.0335)
803050068	0.90 (0.0354)
803050069	0.95 (0.0374)
803050070	1.00 (0.0394)
803050071	1.05 (0.0413)
803050072	1.10 (0.0433)
803050073	1.15 (0.0453)
803050074	1.20 (0.0472)
803050075	1.25 (0.0492)
803050076	1.30 (0.0512)
803050077	1.35 (0.0531)
803050078	1.40 (0.0551)
803050079	1.45 (0.0571)

8) Fit the thrust washers on the transfer drive shaft.

9) Install the bearing outer race into the extension case.

10) Measure the depth "S" between transfer case and center differential.

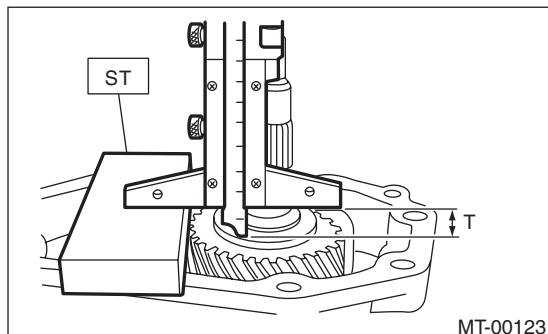
ST 398643600 GAUGE



S Measured value

11) Measure the height "T" between the extension case and transfer drive gear.

ST 398643600 GAUGE



T Measured value

**NOTE:**

Thickness of ST: 15 mm (0.59 in)

12) Calculate the thrust washer thickness "U" using the following calculation.

$U = S + T - 30 \text{ mm (1.18 in)} [\text{Thickness of ST}]$

13) Select a suitable washer in the following table.

**Standard clearance:**

**0.15 — 0.35 mm (0.0059 — 0.0138 in)**

Thrust washer	
Part No.	Thickness mm (in)
803036050	0.9 (0.035)
803036054	1.0 (0.039)
803036051	1.1 (0.043)
803036055	1.2 (0.047)
803036052	1.3 (0.051)
803036056	1.4 (0.055)
803036053	1.5 (0.059)
803036057	1.6 (0.063)
803036058	1.7 (0.067)
803036080	1.8 (0.071)
803036081	1.9 (0.075)

14) Fit the thrust washer onto the center differential.

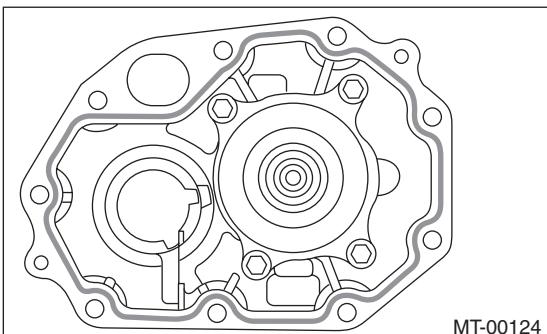
15) Apply a proper amount of liquid gasket to the transfer case mating surface.

# Transfer Case and Extension Case Assembly

## MANUAL TRANSMISSION AND DIFFERENTIAL

### Liquid gasket:

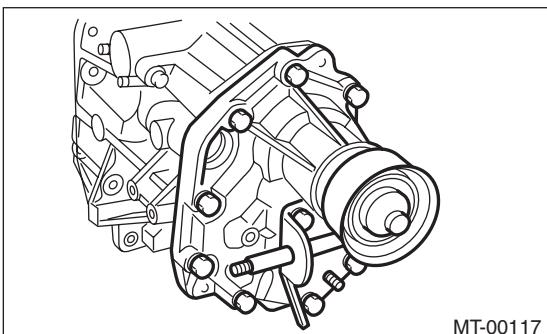
**THREE BOND 1215 (Part No. 004403007) or equivalent**



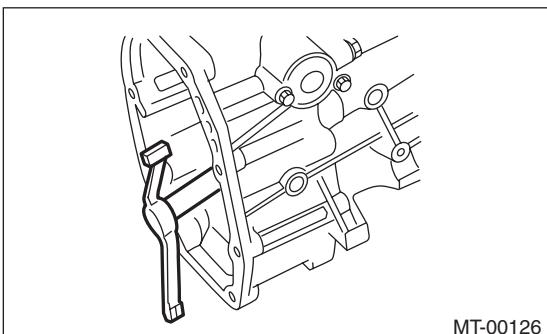
16) Attach the extension assembly to the transfer case.

### Tightening torque:

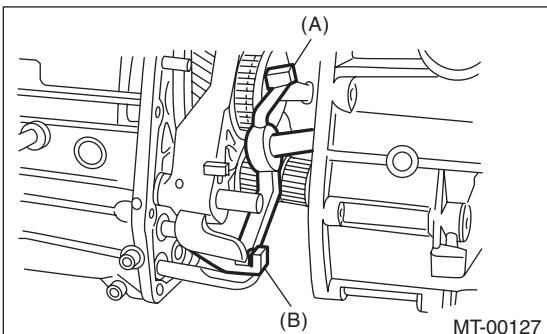
**40 N·m (4.1 kgf·m, 29.5 ft-lb)**



17) Attach the shifter arm to transfer case.



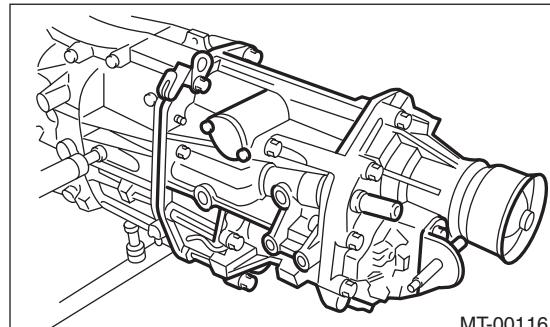
18) Hang the shifter arm on 3rd-4th fork rod.



19) Install the extension case assembly along with the transfer case to the transmission case.

### Tightening torque:

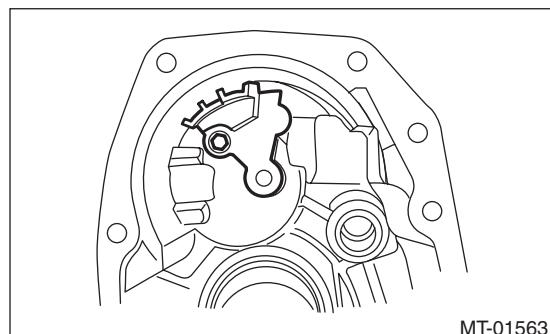
**24.5 N·m (2.5 kgf·m, 18.1 ft-lb)**



## C: DISASSEMBLY

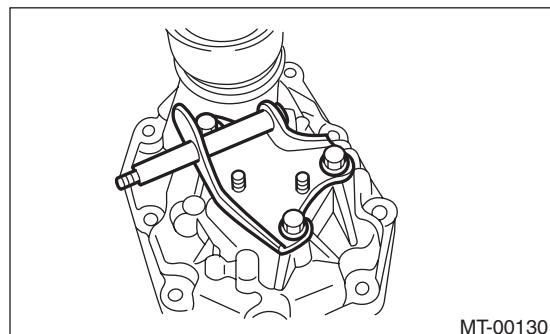
### 1. TRANSFER CASE

- 1) Remove the reverse check sleeve assembly. <Ref. to 5MT-44, REMOVAL, Reverse Check Sleeve.>
- 2) Remove the oil guide.



### 2. EXTENSION CASE

- 1) Remove the transfer drive gear assembly. <Ref. to 5MT-39, REMOVAL, Transfer Drive Gear.>
- 2) Remove the shift bracket.



- 3) Remove the oil seal from the extension case. <Ref. to 5MT-30, Oil Seal.>

# Transfer Case and Extension Case Assembly

## MANUAL TRANSMISSION AND DIFFERENTIAL

### D: ASSEMBLY

#### 1. EXTENSION CASE

- 1) Using the ST, install the oil seal to the extension case. <Ref. to 5MT-30, Oil Seal.>

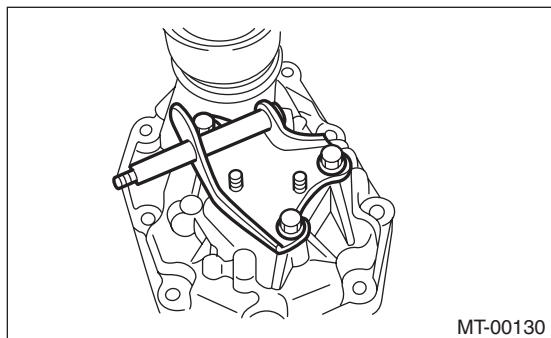
NOTE:

Use a new oil seal.

- 2) Install the shift bracket to extension case.

***Tightening torque:***

***24.5 N·m (2.5 kgf-m, 18.1 ft-lb)***



- 3) Install the transfer drive gear to the extension case. <Ref. to 5MT-39, INSTALLATION, Transfer Drive Gear.>

#### 2. TRANSFER CASE

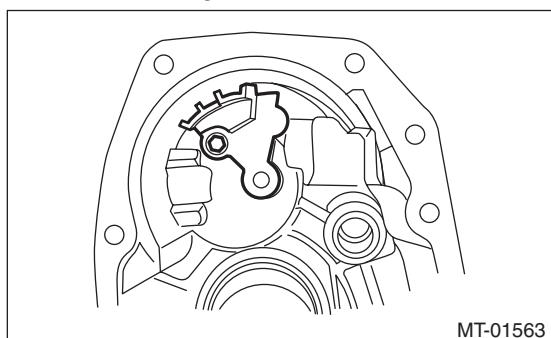
- 1) Install the oil guide to the transfer case.

***Tightening torque:***

***6.4 N·m (0.7 kgf-m, 4.7 ft-lb)***

NOTE:

Use a new installing bolt.



- 2) Install the reverse check sleeve assembly to the transfer case. <Ref. to 5MT-44, INSTALLATION, Reverse Check Sleeve.>