

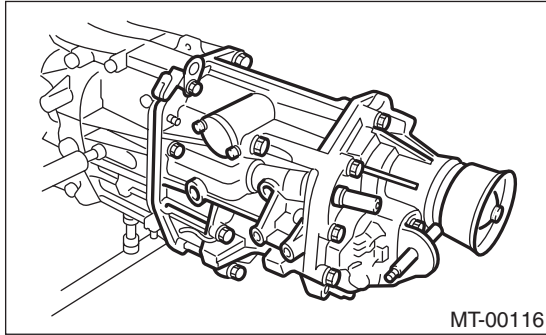
# TRANSFER CASE AND EXTENSION CASE ASSEMBLY

MANUAL TRANSMISSION AND DIFFERENTIAL

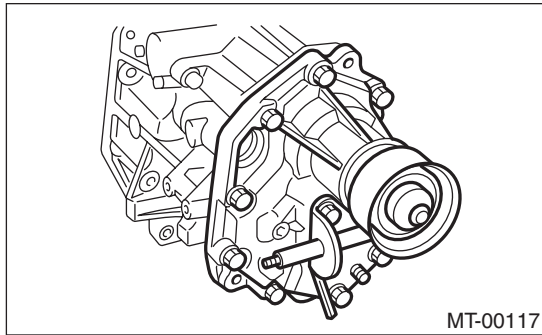
## 9. Transfer Case and Extension Case Assembly

### A: REMOVAL

- 1) Remove the manual transmission assembly from vehicle. <Ref. to MT-27, REMOVAL, Manual Transmission Assembly.>
- 2) Remove the back-up light switch and neutral position switch. <Ref. to MT-37, REMOVAL, Switches and Harness.>
- 3) Remove the transfer case with extension case assembly.

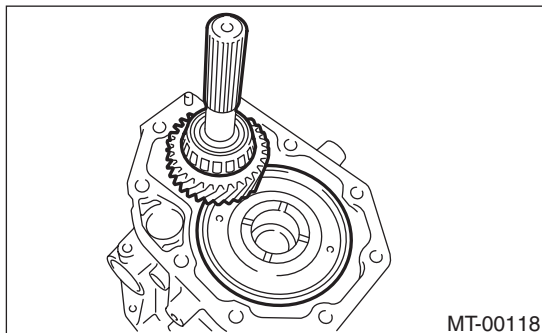


- 4) Remove the shifter arm.
- 5) Remove the extension case assembly.

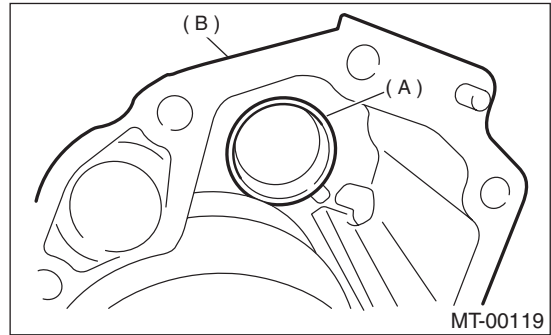


### B: INSTALLATION

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

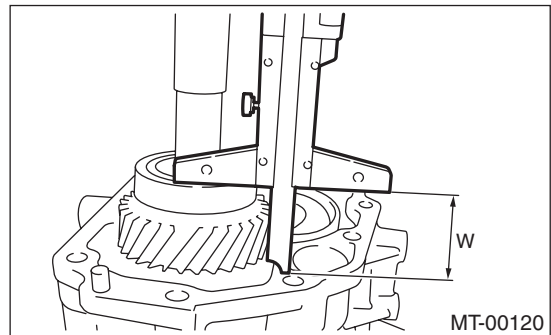


- 2) Remove the bearing outer race from the extension case assembly, and install to taper roller bearing of the transfer driven gear.



- (A) Bearing outer race  
(B) Extension case

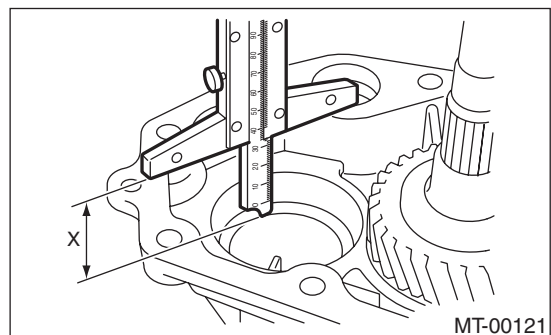
- 3) While pressing the bearing outer race horizontally, turn the driven shaft ten rotations.
- 4) Measure the height "W" between transfer case and taper roller bearing on the transfer driven gear.



- 5) Measure the depth "X".

#### NOTE:

Measure with bearing outer race and thrust washer removed.



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

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

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7) Select the nearest washer 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:

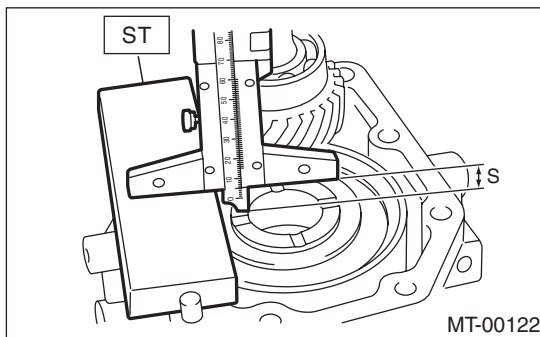
Be sure that the amount of preload is within the standard value.

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 transfer drive shaft.

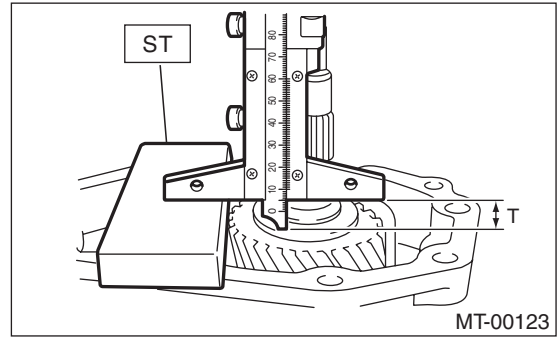
9) Measure the depth "S" between transfer case and center differential.

ST 398643600 GAUGE



10) Measure the depth "T" between extension case and transfer drive gear.

ST 398643600 GAUGE



NOTE:

Thickness of ST: 15 mm (0.59 in)

11) Calculate the space "U" using the following equation:  $U = S + T - 30 \text{ mm (1.18 in)}$  [Thickness of ST]

12) Select the 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)

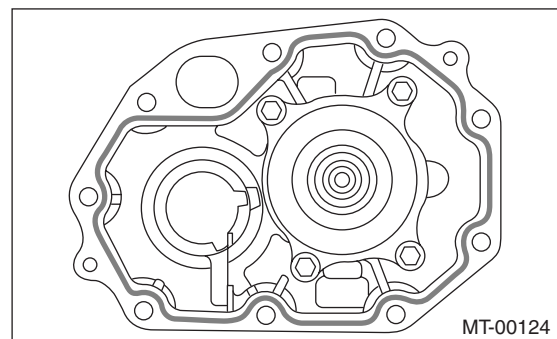
13) Fit the thrust washer on center differential.

14) Install the bearing outer race into extension case.

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

**Liquid gasket:**

**THREE BOND 1215**



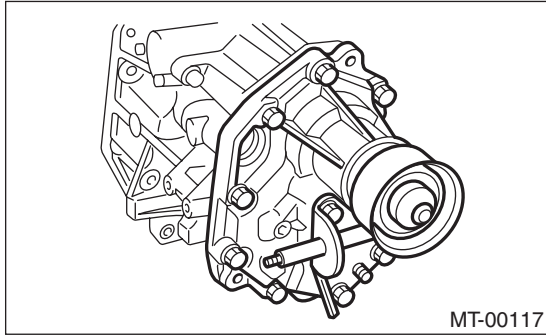
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MANUAL TRANSMISSION AND DIFFERENTIAL

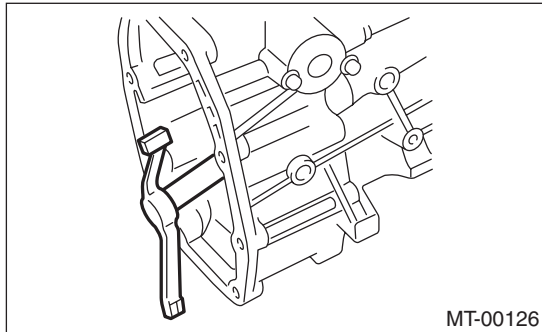
16) Install the extension assembly into the transfer case.

**Tightening torque:**

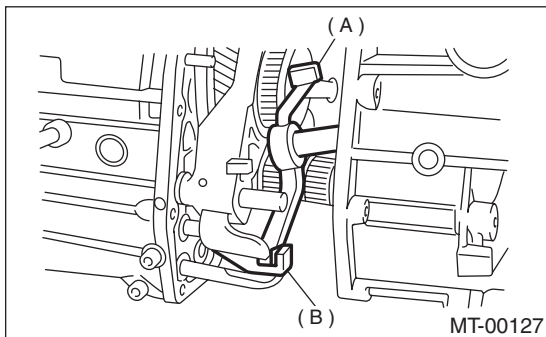
**40N·m (4.1 kgf·m, 29.7 ft·lb)**



17) Install the shifter arm to the transfer case.



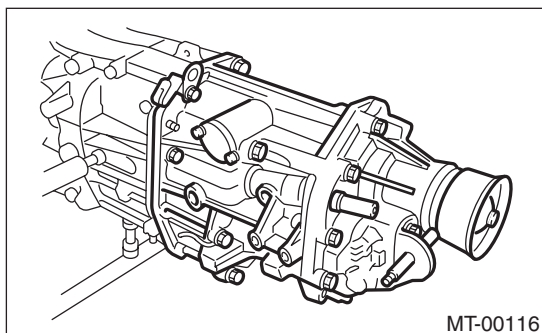
18) Hang the shifter arm on the 3rd-4th fork rod.



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

**Tightening torque:**

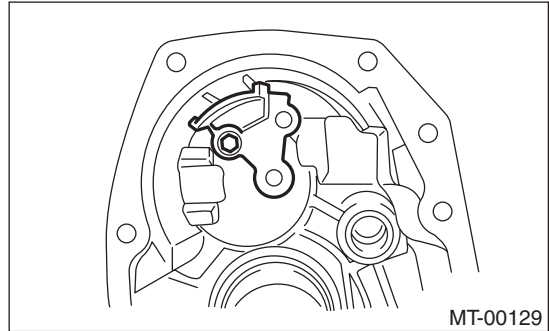
**25N·m (2.5 kgf·m, 18.1 ft·lb)**



## C: DISASSEMBLY

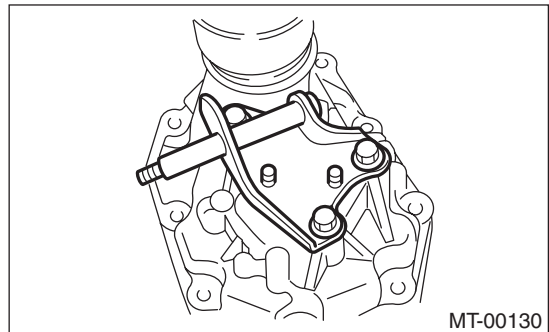
### 1. TRANSFER CASE

- 1) Remove the reverse check assembly. <Ref. to MT-50, REMOVAL, Reverse Check Sleeve.>
- 2) Remove the oil guide.



### 2. EXTENSION CASE

- 1) Remove the transfer drive gear assembly. <Ref. to MT-45, REMOVAL, Transfer Drive Gear.>
- 2) Remove the shift bracket.



- 3) Remove the oil seal from the extension case. <Ref. to MT-36, OIL SEAL, .>

# TRANSFER CASE AND EXTENSION CASE ASSEMBLY

## MANUAL TRANSMISSION AND DIFFERENTIAL

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### D: ASSEMBLY

#### 1. EXTENSION CASE

1) Using ST, install the oil seal to the extension case. <Ref. to MT-36, Oil Seal.>

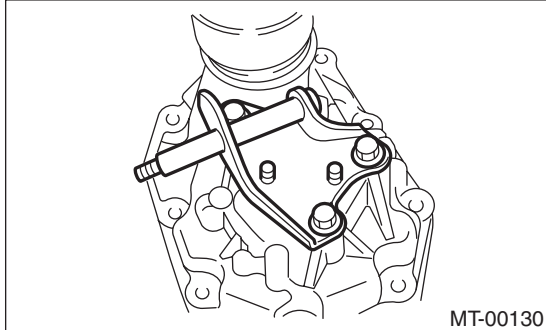
**CAUTION:**

**Use new oil seal.**

2) Install the shift bracket to the extension case.

**Tightening torque:**

**25 N·m (2.5 kgf·m, 18.1 ft·lb)**



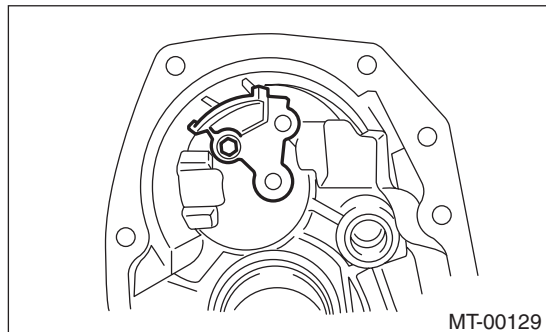
3) Install the transfer drive gear to the extension case. <Ref. to MT-45, INSTALLATION, Transfer Drive Gear.>

#### 2. TRANSFER CASE

1) Install the oil guide to the transfer case.

**Tightening torque:**

**6.4 N·m (0.65 kgf·m, 4.7 ft·lb)**



2) Install the reverse check sleeve assembly to the transfer case. <Ref. to MT-50, INSTALLATION, Reverse Check Sleeve.>