

# TRANSFER CASE AND EXTENSION CASE ASSEMBLY

Manual Transmission and Differential

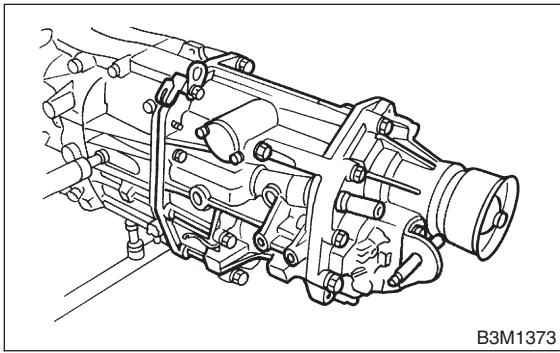
## 7. Transfer Case and Extension Case Assembly

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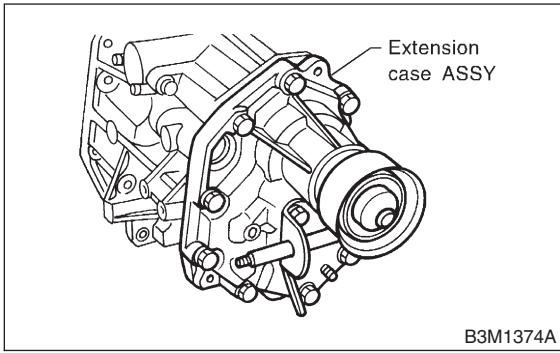
### A: REMOVAL

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- 1) Remove the manual transmission assembly from vehicle. <Ref. to MT-27 REMOVAL, Manual Transmission Assembly.>
- 2) Remove back-up light switch and neutral position switch.
- 3) Remove transfer case and extension case assembly. <Ref. to MT-40 REMOVAL, Transfer Case and Extension Case Assembly.>



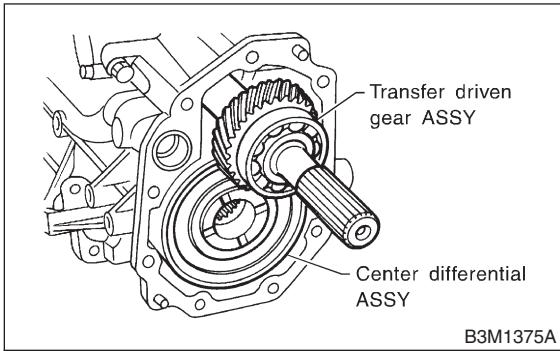
- 4) Remove shifter arm.
- 5) Remove extension case assembly.



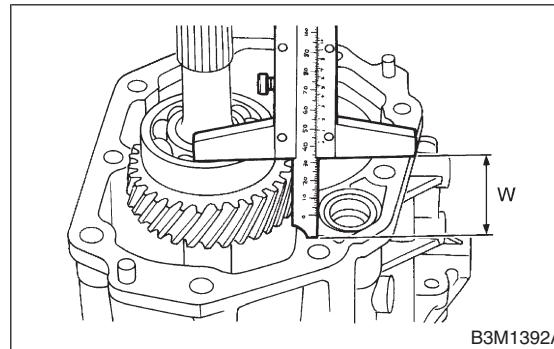
### B: INSTALLATION

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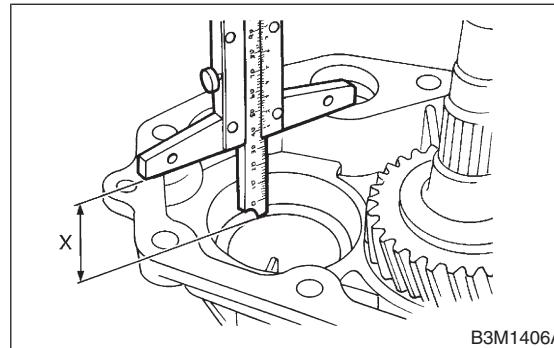
- 1) Install center differential and transfer driven gear into transfer case.



- 2) Measure height "W" between transfer case and ball bearing on the transfer driven gear.



- 3) Measure depth "X".



- 4) Calculate space "Y" using the following equation:  $Y = X - W + 0.24 \text{ mm (0.0094 in)}$  [Thickness of gasket]

- 5) Select suitable washer in the following table:

**Standard clearance between thrust washer and ball bearing:**

**0.05 — 0.30 mm (0.0020 — 0.0118 in)**

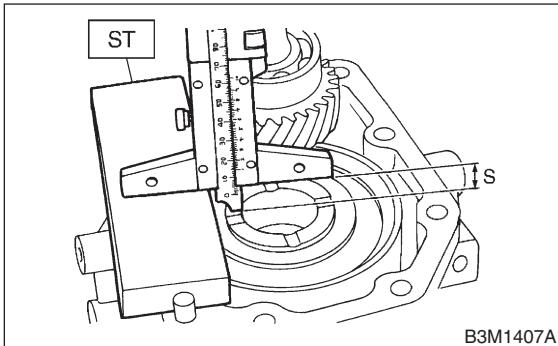
Space "Y" mm (in)	Thrust washer	
	Part No.	Thickness mm (in)
0.55 — 0.79 (0.0217 — 0.0311)	803052021	0.50 (0.0197)
0.80 — 1.04 (0.0315 — 0.0409)	803052022	0.75 (0.0295)
1.05 — 1.30 (0.0413 — 0.0512)	803052023	1.00 (0.0394)

- 6) Fit thrust washers on transfer drive shaft.

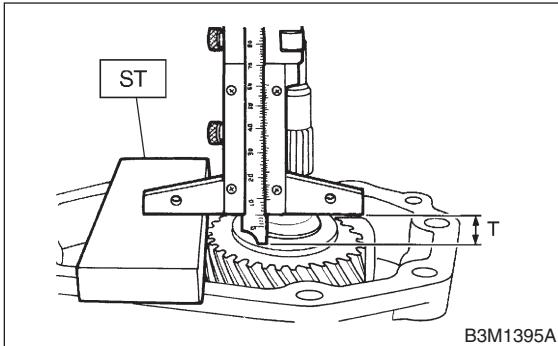
# TRANSFER CASE AND EXTENSION CASE ASSEMBLY

Manual Transmission and Differential

7) Measure depth "S" between transfer case and center differential.  
ST 398643600 GAUGE



8) Measure depth "T" between extension case and transfer drive gear.  
ST 398643600 GAUGE



9) Calculate space "U" using the following equation:  $U = S + T - 0.24 \text{ mm (0.0094 in)}$  [Thickness of gasket]

10) Select suitable washer in the following table:

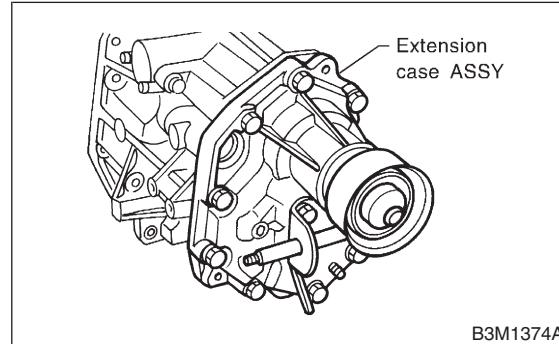
**Standard clearance:**

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

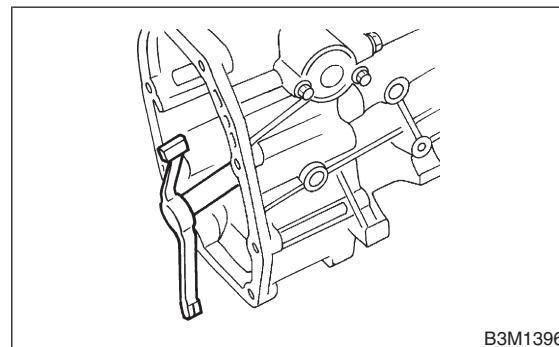
Thrust washer	
Part No.	Thickness mm (in)
803036050	0.9 (0.035)
803036054	1.0 (0.039)
803036051	1.1 (0.043)
803036055	1.2 (0.047)
803036052	1.3 (0.051)
803036056	1.4 (0.055)
803036053	1.5 (0.059)
803036057	1.6 (0.063)
803036058	1.7 (0.067)

11) Fit thrust washer on center differential.

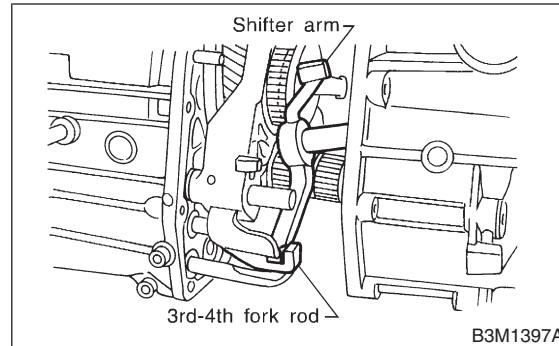
12) Install extension assembly into transfer case.  
**Tightening torque:**  
**37 N·m (3.8 kgf-m, 27.5 ft-lb)**



13) Install shifter arm to transfer case.

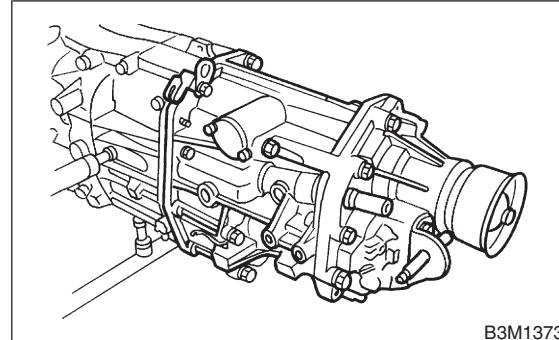


14) Hang the shifter arm on the 3rd-4th fork rod.



15) Install transfer case with extension assembly to transmission case.

**Tightening torque:**  
**24.5 N·m (2.50 kgf-m, 18.1 ft-lb)**



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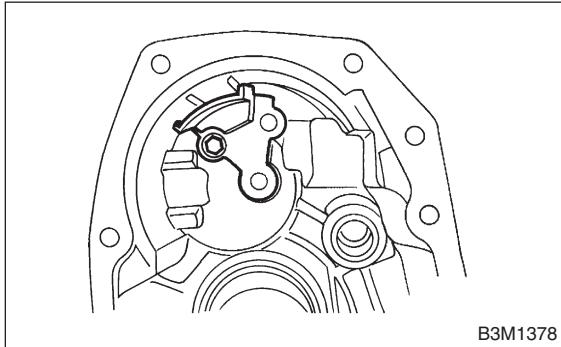
## C: DISASSEMBLY

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### 1. TRANSFER CASE

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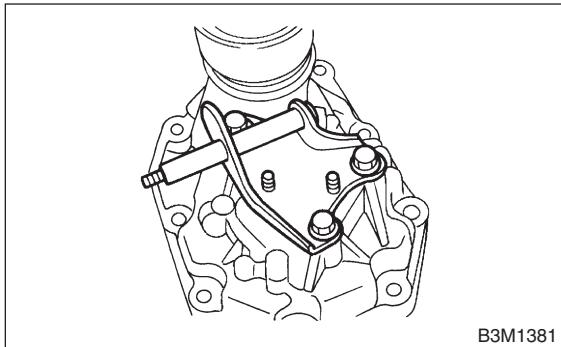
- 1) Remove reverse check sleeve assembly. <Ref. to MT-48 REMOVAL, Reverse Check Sleeve.>
- 2) Remove oil guide.



### 2. EXTENSION CASE

S503561A0602

- 1) Remove transfer drive gear assembly. <Ref. to MT-43 REMOVAL, Transfer Drive Gear.>
- 2) Remove shift bracket.



- 3) Remove oil seal from extension case.

## D: ASSEMBLY

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### 1. EXTENSION CASE

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- 1) Using ST, install oil seal to extension case.

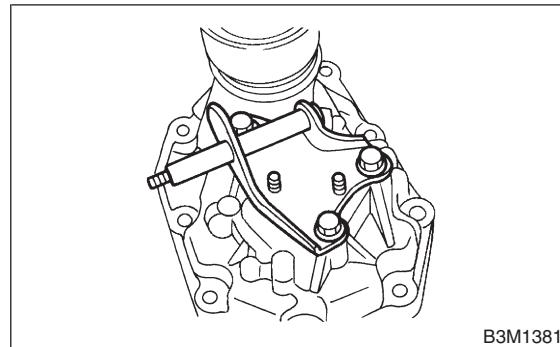
**CAUTION:**

Use new oil seal.

- 2) Install shift bracket to extension case.

**Tightening torque:**

25 N·m (2.5 kgf·m, 18.1 ft·lb)



- 3) Install transfer drive gear to extension case. <Ref. to MT-43 INSTALLATION, Transfer Drive Gear.>

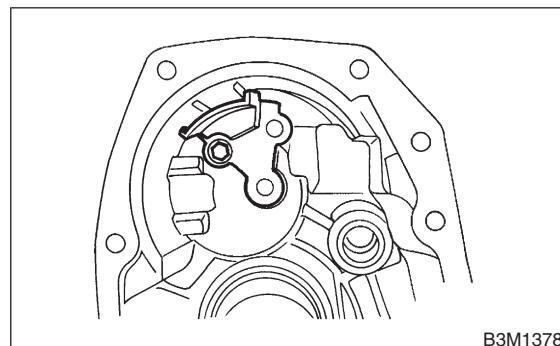
### 2. TRANSFER CASE

S503561A0202

- 1) Install oil guide to transfer case.

**Tightening torque:**

6.4 N·m (0.65 kgf·m, 4.7 ft·lb)



- 2) Install reverse check sleeve assembly to transfer case. <Ref. to MT-48 INSTALLATION, Reverse Check Sleeve.>