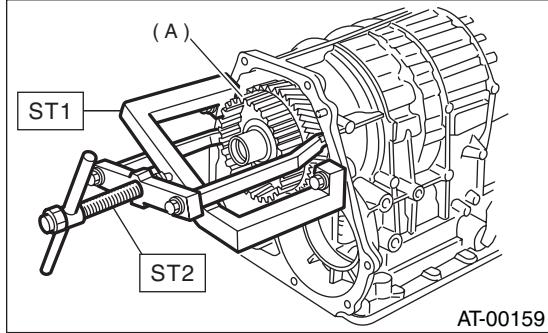


## 31. Reduction Drive Gear

### A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to AT-39, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove rear vehicle speed sensor, and separate the extension case from transmission case. <Ref. to AT-79, REMOVAL, Extension Case.>
- 3) Remove the reduction driven gear. <Ref. to AT-93, REMOVAL, Reduction Driven Gear.>
- 4) Using ST, extract the reduction drive gear.  
ST1 499737100 PULLER  
ST2 899524100 PULLER SET



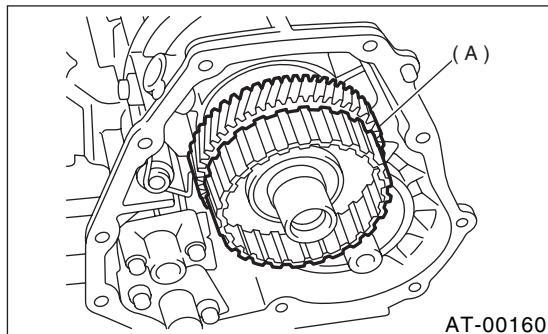
(A) Reduction drive gear

### B: INSTALLATION

- 1) Install the reduction drive gear assembly.

NOTE:

Insert it fully into position until the bearing shoulder bottoms.

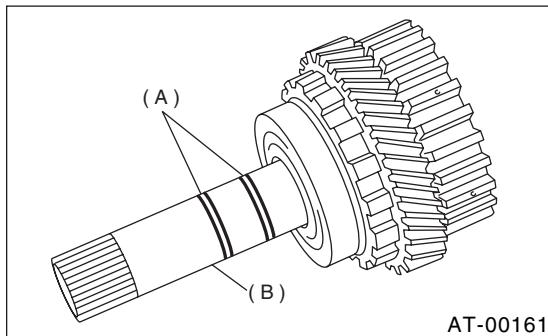


(A) Reduction drive gear

- 2) Install reduction driven gear. <Ref. to AT-94, INSTALLATION, Reduction Driven Gear.>
- 3) Combine the transmission case with the extension case, and install rear vehicle speed sensor. <Ref. to AT-79, INSTALLATION, Extension Case.>
- 4) Install the transmission assembly to the vehicle. <Ref. to AT-41, INSTALLATION, Automatic Transmission Assembly.>

**C: DISASSEMBLY**

1) Take out the seal rings.



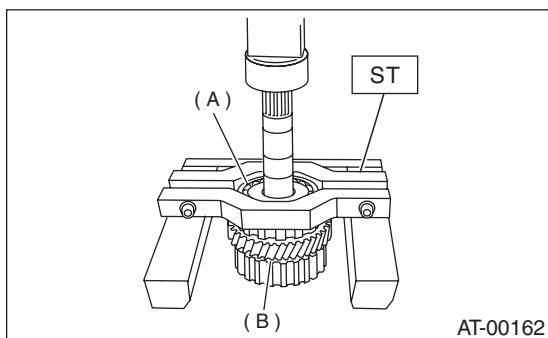
AT-00161

(A) Seal ring

(B) Reduction drive shaft

2) Using ST, remove the ball bearing.

ST 498077600 REMOVER

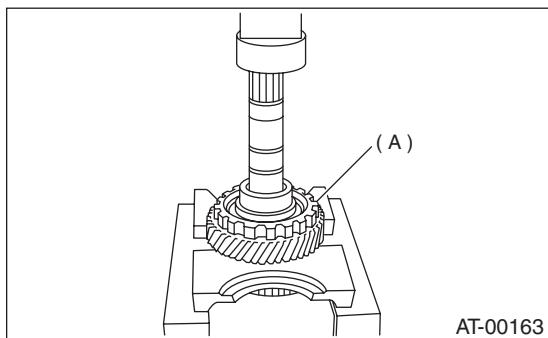


AT-00162

(A) Ball bearing

(B) Reduction drive gear

3) Using a press, remove the reduction drive gear.

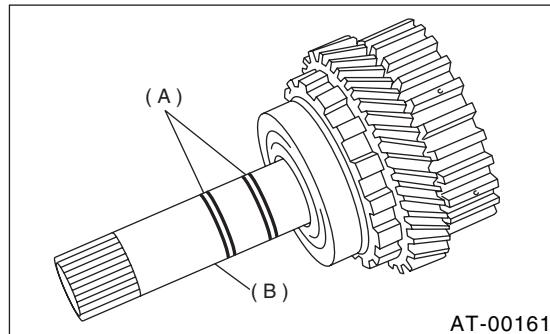


AT-00163

(A) Reduction drive gear

**D: ASSEMBLY**

- 1) Press-fit the reduction drive gear to the shaft.
- 2) Press-fit the a new ball bearing to the reduction drive gear.
- 3) Apply petrolatum to outer surface of seal ring and shaft groove.
- 4) Attach new seal rings.



AT-00161

(A) Seal ring

(B) Reduction drive shaft

**E: INSPECTION**

- Rotate bearing by hand, make sure it rotates smoothly.
- Make sure that each component is free of harmful gouges, cuts, or dust.
- Measure the extension end play and adjust it to within specifications. <Ref. to AT-87, ADJUSTMENT, Transfer Clutch.>