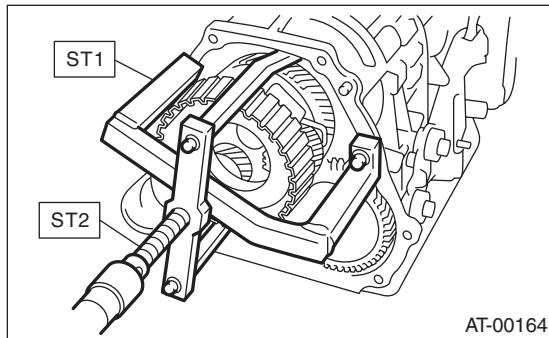


32. Center Differential Carrier

A: REMOVAL

- 1) Remove the transmission assembly from vehicle body. <Ref. to 4AT-37, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the rear wheel speed sensor, and separate the extension case from transmission case. <Ref. to 4AT-70, REMOVAL, Extension Case.>
- 3) Pull out the rear drive shaft. <Ref. to 4AT-81, REMOVAL, Rear Drive Shaft.>
- 4) Pull out the center differential carrier using ST.

ST1 499737100 PULLER
ST2 899524100 PULLER SET



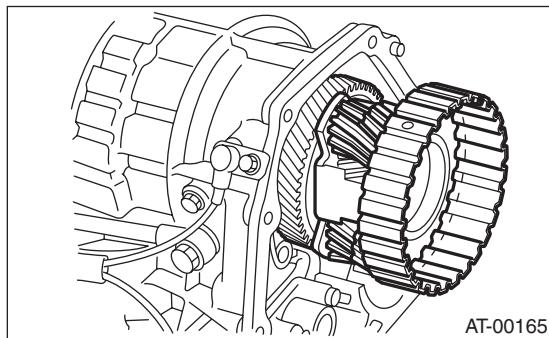
- 5) Pull out the shims from the transmission case.

B: INSTALLATION

- 1) Install the center differential assembly with shim.

NOTE:

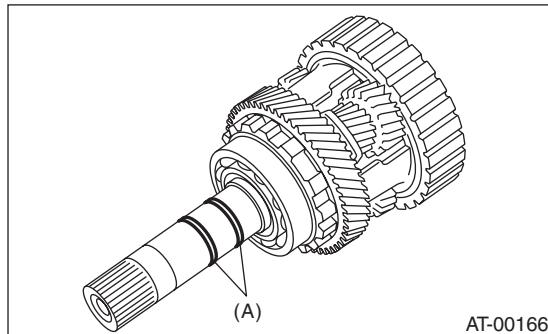
Press-fit it to the bottom of bearing shoulder completely.



- 2) Insert the rear drive shaft. <Ref. to 4AT-81, INSTALLATION, Rear Drive Shaft.>
- 3) Join the transmission case and the extension case, and then install the rear vehicle speed sensor. <Ref. to 4AT-70, INSTALLATION, Extension Case.>
- 4) Install the transmission assembly to the vehicle. <Ref. to 4AT-40, INSTALLATION, Automatic Transmission Assembly.>

C: DISASSEMBLY

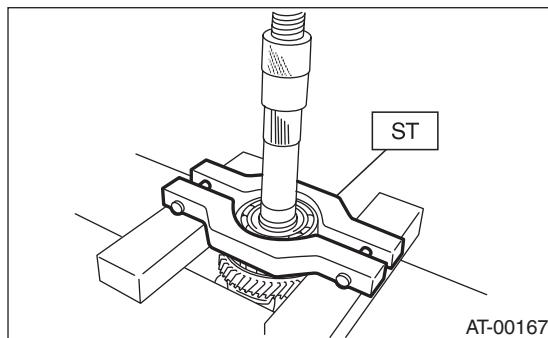
- 1) Remove the seal ring.



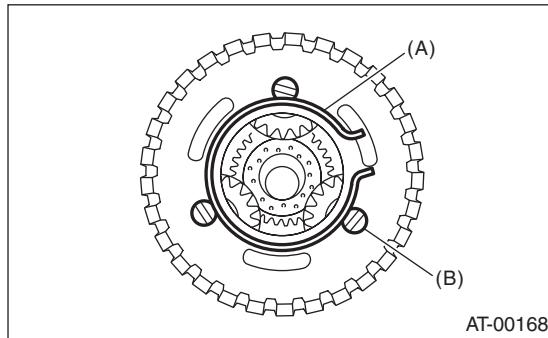
(A) Seal ring

- 2) Remove the ball bearing using the ST and the press.

ST 498077600 REMOVER



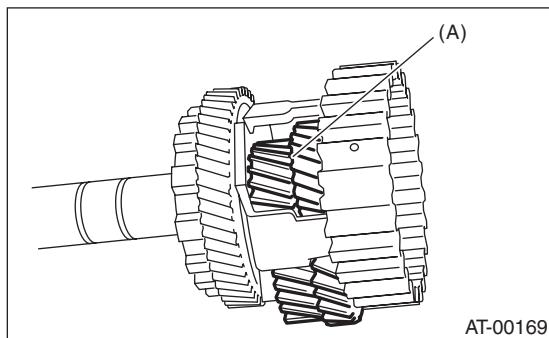
- 3) Remove the snap ring, and pull out the shaft from center differential assembly.



(A) Snap ring

(B) Shaft

4) Remove the thrust washers, pinion gears and washers from the center differential assembly.



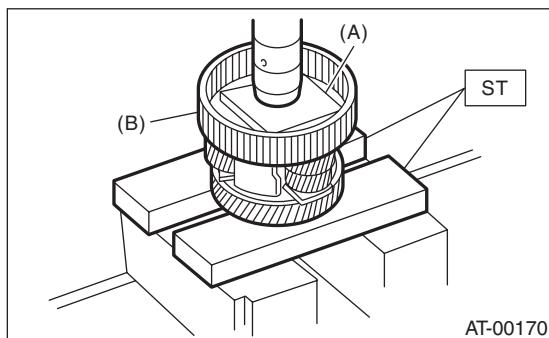
(A) Pinion gear

5) Pull out the intermediate shaft and thrust bearing.

D: ASSEMBLY

- 1) Install the thrust washer onto intermediate shaft.
- 2) Install the thrust bearing onto intermediate shaft.
- 3) Install the pinion gears and washers.
- 4) Insert the shaft into the center differential assembly.
- 5) Install the snap ring.
- 6) Using a press, press-fit a new ball bearing into the center differential assembly.

ST 498077000 REMOVER



(A) Plate

(B) Center differential carrier

- 7) Apply vaseline to the outer surface of the seal ring and shaft groove.
- 8) Install a new seal ring.

E: INSPECTION

- Make sure there are no holes, cutting damage or other foreign materials on each parts.
- Inspect the extension end play, and adjust it to be within the standard value. <Ref. to 4AT-78, VTD MODEL, ADJUSTMENT, Transfer Clutch.>