

CENTER DIFFERENTIAL CARRIER

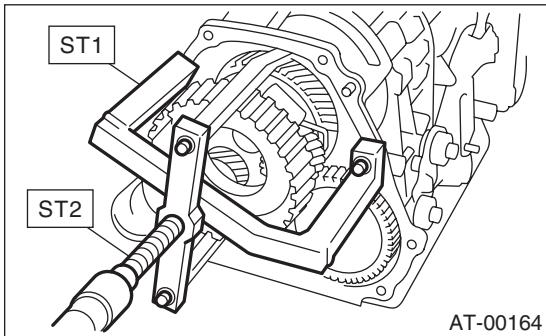
AUTOMATIC TRANSMISSION

32.Center Differential Carrier

A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to AT-39, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove rear wheel speed sensor, and separate the extension case from transmission case. <Ref. to AT-79, REMOVAL, Extension Case.>
- 3) Extract the rear drive shaft. <Ref. to AT-92, REMOVAL, Rear Drive Shaft.>
- 4) Extract the center differential carrier assembly with ST.

ST1 499737100 PULLER
ST2 899524100 PULLER SET



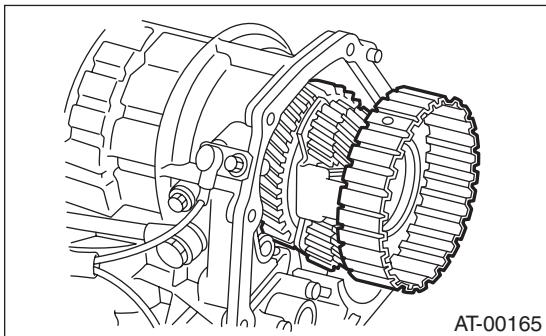
- 5) Pull out shims from the transmission case.

B: INSTALLATION

- 1) Install the center differential assembly with shims.

NOTE:

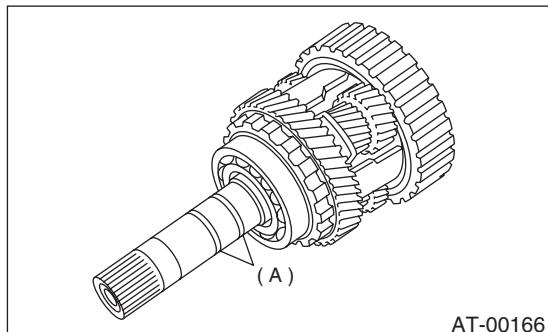
Insert it fully into position until the bearing shoulder bottoms.



- 2) Insert the rear drive shaft. <Ref. to AT-92, INSTALLATION, Rear Drive Shaft.>
- 3) Combine the transmission case with the extension case, and install rear wheel 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

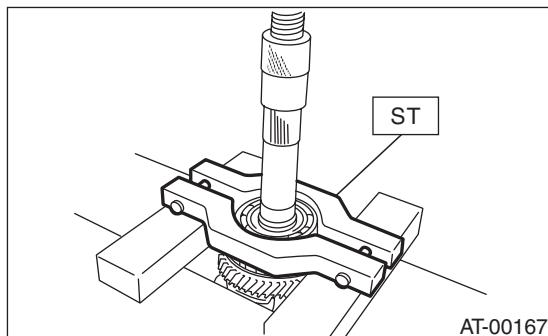
- 1) Remove the seal ring.



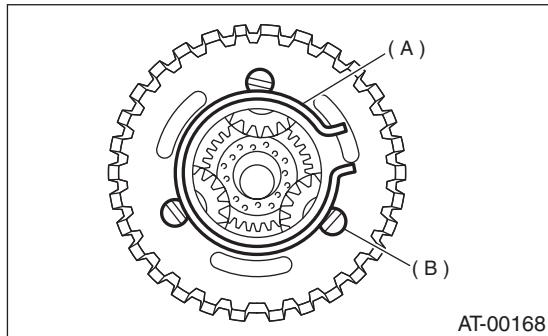
(A) Seal ring

- 2) Using a press and ST, remove the ball bearing.

ST 498077600 REMOVER



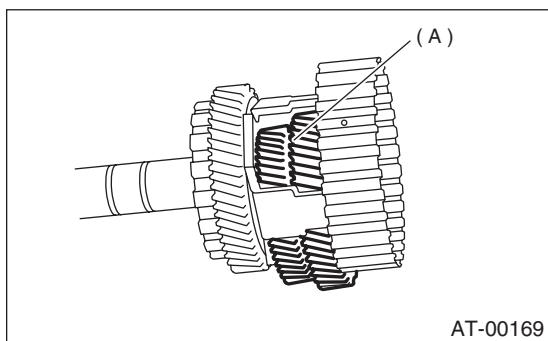
- 3) Remove the snap ring and extract the shaft from the center differential assembly.



(A) Snap ring

(B) Shaft

4) Remove thrust washer, pinion gear and washer from the center differential assembly.



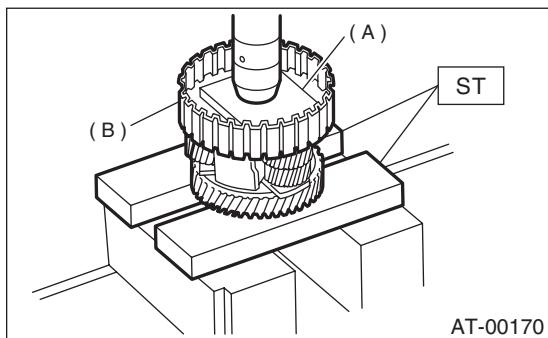
(A) Pinion gear

5) Extract the intermediate shaft and thrust bearing.

D: ASSEMBLY

- 1) Install thrust washer to intermediate shaft.
- 2) Install thrust bearing to intermediate shaft.
- 3) Install pinion gear and washer.
- 4) Insert the shaft into center differential assembly.
- 5) Install snap ring.
- 6) Press-fit a new ball bearing into center differential assembly using a press.

ST 498077000 REMOVER



(A) Plate

(B) Center differential carrier

- 7) Apply petrolatum to outer surface of seal ring and shaft groove.
- 8) Attach new seal rings.

E: INSPECTION

- 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-88, VTD MODEL, ADJUSTMENT, Transfer Clutch.>