

CENTER DIFFERENTIAL CARRIER

AUTOMATIC TRANSMISSION

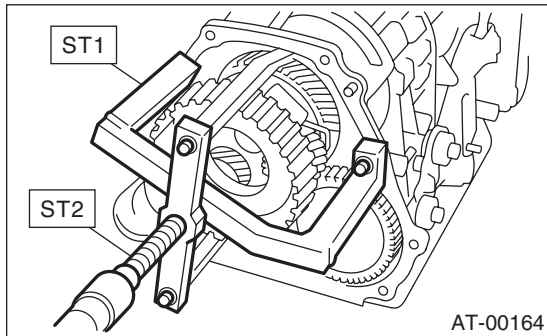
32.Center Differential Carrier

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



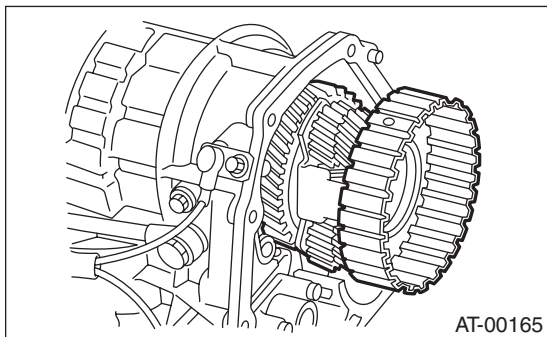
- 5) Pull out shims from the transmission case.

B: INSTALLATION

- 1) Install the center differential assembly with shims.

NOTE:

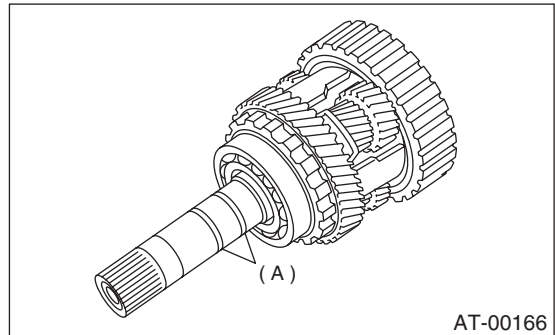
Insert it fully into position until the bearing shoulder bottoms.



- 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.>

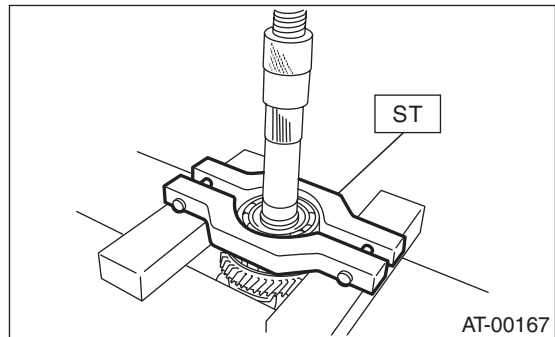
C: DISASSEMBLY

- 1) Remove the seal ring.

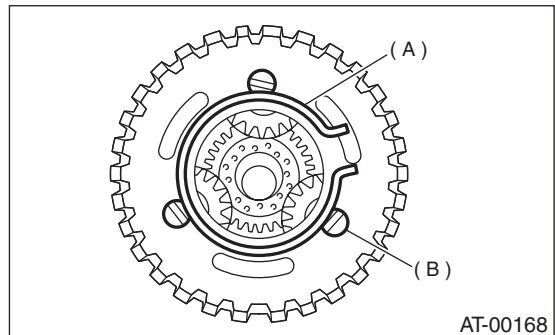


(A) Seal ring

- 2) Using a press and ST, remove the ball bearing.
ST 498077600 REMOVER



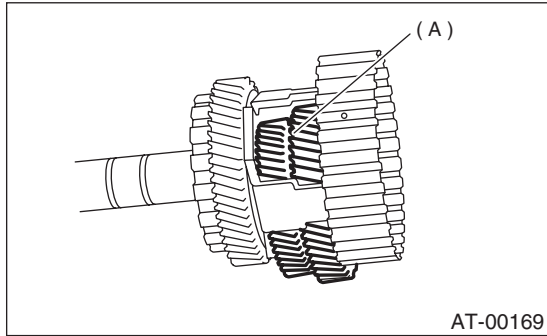
- 3) Remove the snap ring and extract the shaft from the center differential assembly.



(A) Snap ring

(B) Shaft

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



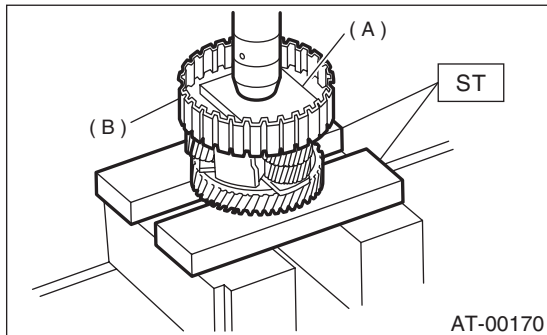
(A) Pinion gear

- 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.>