

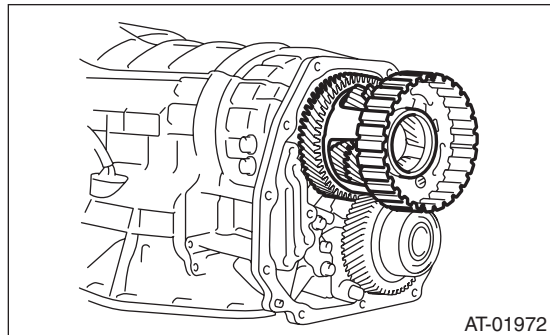
Center Differential Carrier

AUTOMATIC TRANSMISSION

28.Center Differential Carrier

A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to 5AT-37, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the rear vehicle speed sensor, and separate the extension case from transmission case. <Ref. to 5AT-63, REMOVAL, Extension Case.>
- 3) Extract the rear drive shaft. <Ref. to 5AT-68, REMOVAL, Rear Drive Shaft.>
- 4) Pull out the center differential carrier assembly.



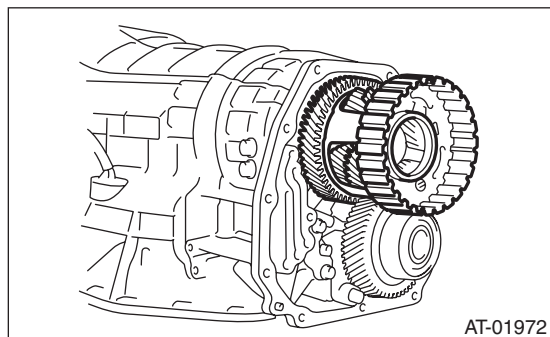
- 5) Remove the shim from the transmission case.

B: INSTALLATION

- 1) Install the center differential assembly with the shim(s).

NOTE:

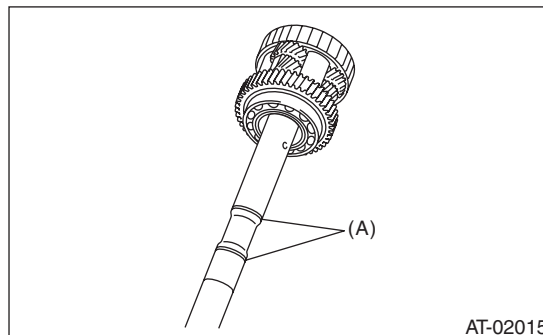
Press-fit it to the bottom of bearing shoulder completely.



- 2) Insert the rear drive shaft. <Ref. to 5AT-68, INSTALLATION, Rear Drive Shaft.>
- 3) Join the transmission case and the extension case, and then install the rear vehicle speed sensor. <Ref. to 5AT-63, INSTALLATION, Extension Case.>
- 4) Install the transmission assembly to the vehicle. <Ref. to 5AT-40, INSTALLATION, Automatic Transmission Assembly.>

C: DISASSEMBLY

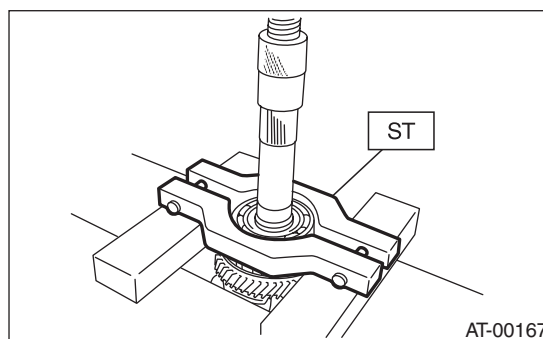
- 1) Remove the seal ring.



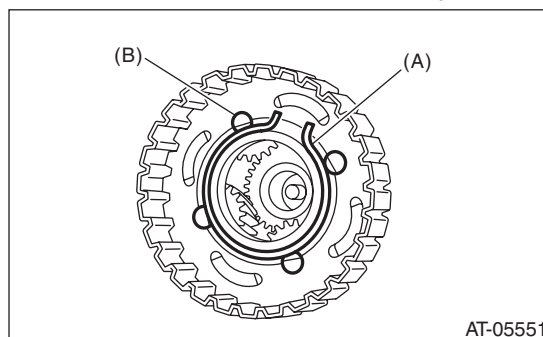
(A) Seal ring

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

ST 498077600 REMOVER



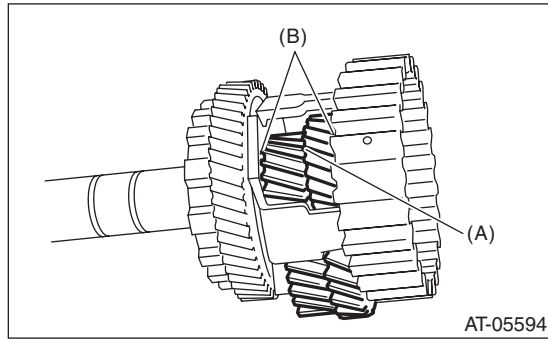
- 3) Remove the snap ring, and pull out the pinion shaft from center differential assembly.



(A) Snap ring

(B) Pinion shaft

- 4) Remove the pinion gear and washers from center differential assembly.



- (A) Pinion gear
(B) Washer

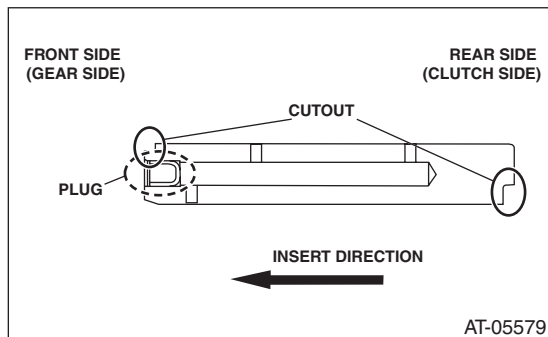
- 5) Pull out the intermediate shaft and thrust bearing.

D: ASSEMBLY

- 1) Install the thrust bearing onto intermediate shaft.
- 2) Insert the intermediate shaft into the center differential assembly.
- 3) Install the pinion gears and washers.
- 4) Insert the pinion shaft into the center differential assembly.

NOTE:

- Insert the pinion shaft with the side with the plug side facing the front side (gear side).
- After inserting the pinion shaft, adjust its position so that the cutout portion on the front side is on the inner side.



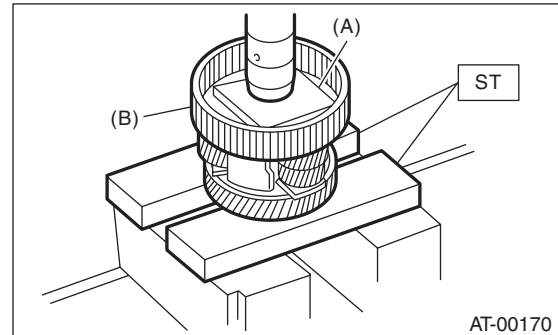
- 5) Install the snap ring.

- 6) Using a press, press-fit the ball bearing into the center differential assembly.

NOTE:

Use a new ball bearing.

ST 498077000 REMOVER



- (A) Plate
(B) Center differential carrier

- 7) Apply vaseline onto the seal ring outer surface and shaft grooves.

- 8) Install a new seal ring.

E: INSPECTION

- Check each parts for holes, damages or other foreign matters.
- Inspect the extension end play, and adjust it to within the standard value. <Ref. to 5AT-65, ADJUSTMENT, Transfer Clutch.>