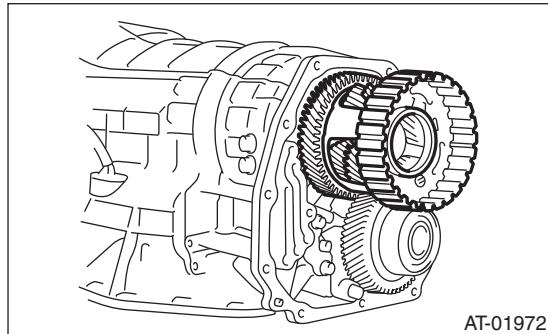


28.Center Differential Carrier

A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to 5AT-38, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the rear vehicle speed sensor, and separate the extension case from transmission case. <Ref. to 5AT-66, REMOVAL, Extension Case.>
- 3) Extract the rear drive shaft. <Ref. to 5AT-70, REMOVAL, Rear Drive Shaft.>
- 4) Pull out the center differential carrier assembly.



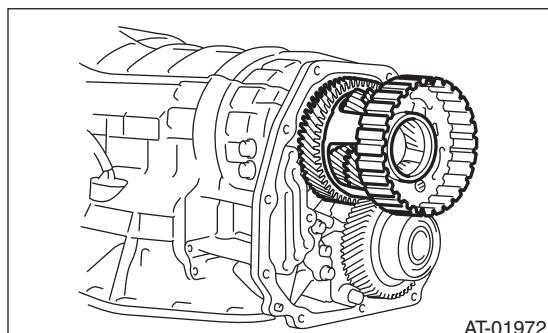
- 5) Pull out the shim(s) from transmission case.

B: INSTALLATION

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

NOTE:

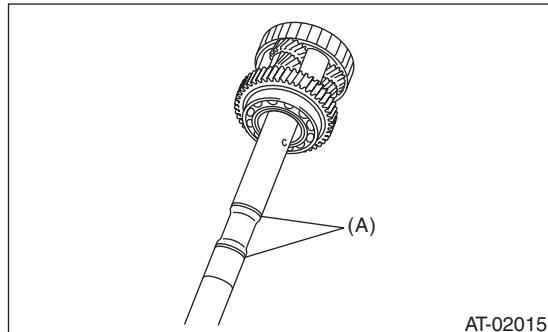
Press-fit it to the bottom of bearing shoulder completely.



- 2) Insert the rear drive shaft. <Ref. to 5AT-70, INSTALLATION, Rear Drive Shaft.>
- 3) Join the transmission case and the extension case, and then install the rear vehicle speed sensor. <Ref. to 5AT-66, INSTALLATION, Extension Case.>
- 4) Install the transmission assembly to the vehicle. <Ref. to 5AT-42, INSTALLATION, Automatic Transmission Assembly.>

C: DISASSEMBLY

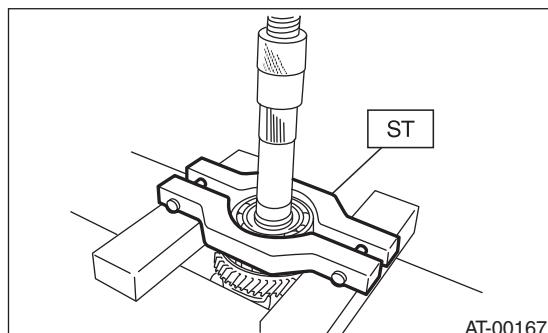
- 1) Remove the seal ring.



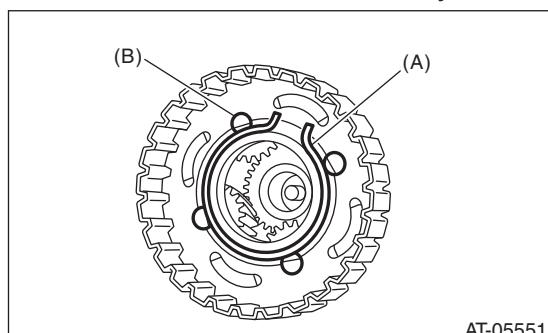
(A) Seal ring

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

ST 498077600 REMOVER



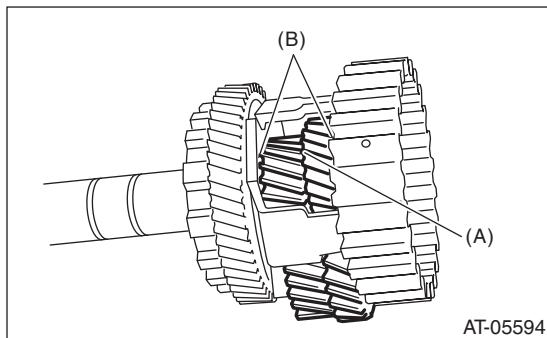
- 3) Remove the snap ring, and pull out the pinion shaft from center differential assembly.



(A) Snap ring

(B) Pinion shaft

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



(A) Pinion gear
(B) Washer

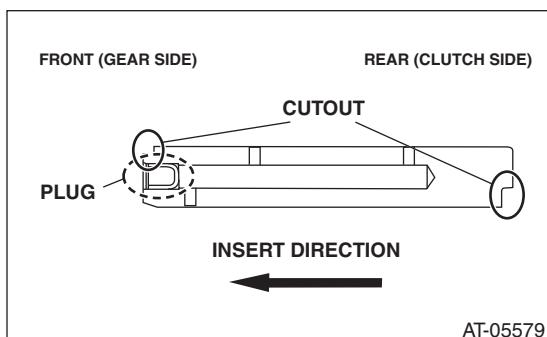
5) Pull out the intermediate shaft and thrust bearing.

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:

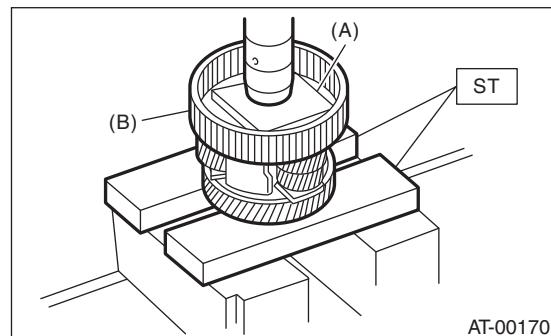
- Insert the pinion shaft with the side with the plug side facing the front side (gear side).
- After inserting the pinion shaft, adjust its position so that the cutout portion on the front side is on the inner side.



- 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.
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(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-68, ADJUSTMENT, Transfer Clutch.>