

## 27. Reduction Driven Gear

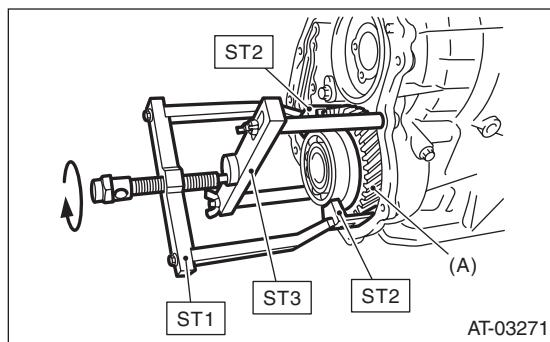
### A: REMOVAL

- 1) Remove the transmission assembly from vehicle body. <Ref. to 5AT-36, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the rear vehicle speed sensor, and separate the extension case from transmission case. <Ref. to 5AT-64, REMOVAL, Extension Case.>
- 3) Remove the center differential carrier. <Ref. to 5AT-72, REMOVAL, Center Differential Carrier.>
- 4) Set the range select lever to the "P" range.
- 5) Using ST1, ST2 and ST3, pull out the reduction driven gear.

ST1 499737100 PULLER SET

ST2 18680AA010 GEAR HOLDER

ST3 18766AA000 SUPPORT PULLER



(A) Reduction driven gear

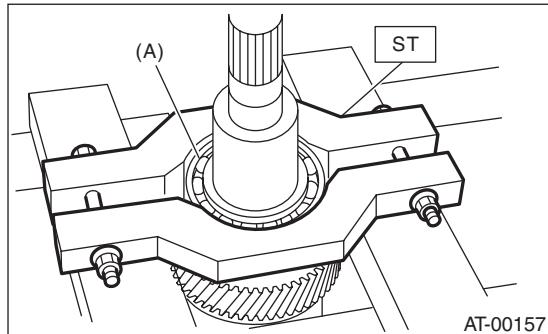
### B: INSTALLATION

- 1) Set the range select lever to the "P" range.
- 2) Use a plastic hammer to install reduction driven gear assembly.
- 3) Select the reduction gear shims. <Ref. to 5AT-70, ADJUSTMENT, Reduction Driven Gear.>
- 4) Join the transmission case and the extension case, and then install the rear vehicle speed sensor. <Ref. to 5AT-64, INSTALLATION, Extension Case.>
- 5) Install the transmission assembly to the vehicle. <Ref. to 5AT-41, INSTALLATION, Automatic Transmission Assembly.>

### C: DISASSEMBLY

- 1) Remove the ball bearing from reduction driven gear using ST.

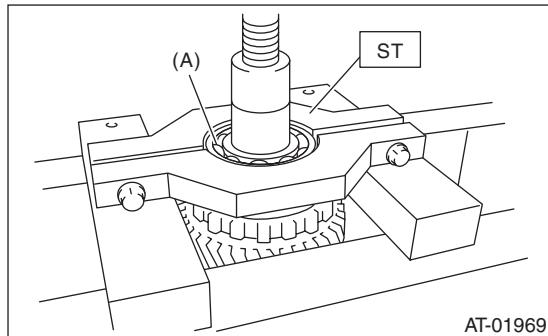
ST 498077300 REMOVER



(A) Ball bearing

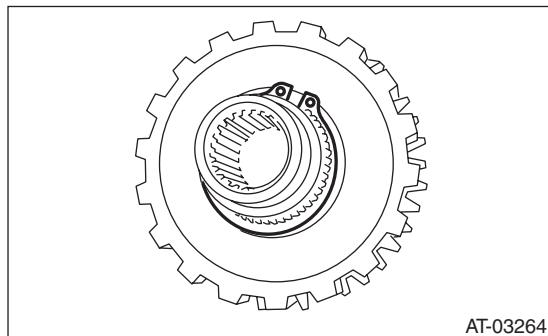
- 2) Remove the ball bearing on the reverse side with the same procedure as step 1).

ST 498077300 REMOVER



(A) Ball bearing

- 3) Remove the snap ring of the parking gear.

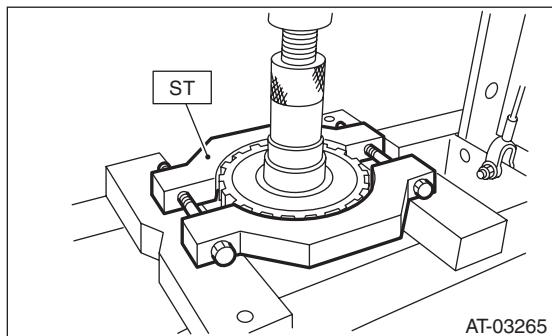


AT-03264

# Reduction Driven Gear

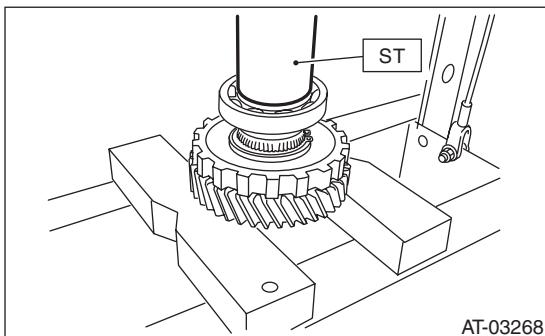
## AUTOMATIC TRANSMISSION

4) Using the ST, remove the parking gear.  
ST 18767AA000 REMOVER



AT-03265

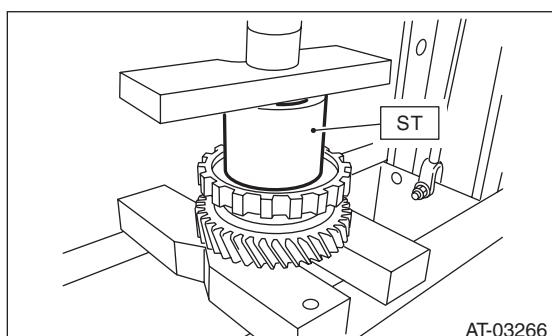
4) Install the ball bearing on the reverse side with the same procedure as step 3).  
ST 18654AA000 INSTALLER



AT-03268

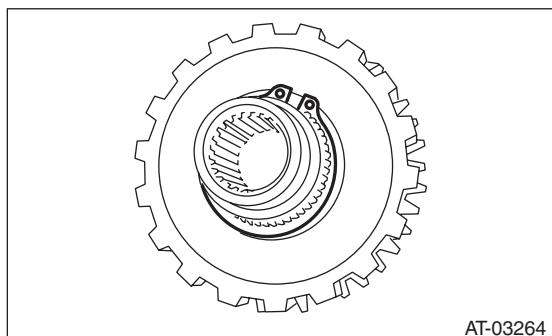
## D: ASSEMBLY

1) Using the ST, install the parking gear.  
ST 499755602 PRESS



AT-03266

2) Install the snap ring.



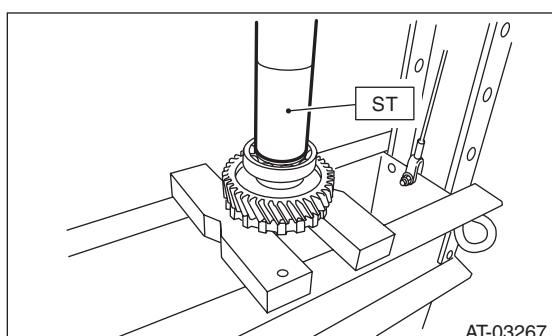
AT-03264

3) Install the ball bearing to the reduction driven gear using a press.

### NOTE:

Use a new ball bearing.

ST 18654AA000 INSTALLER



AT-03267

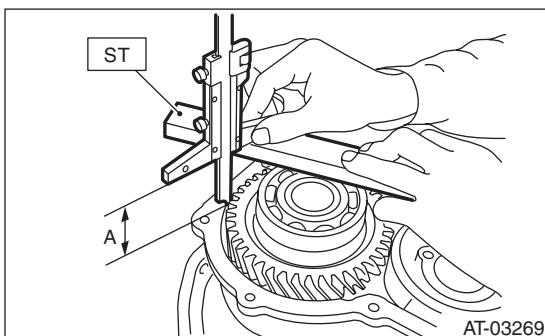
## E: INSPECTION

Check the ball bearing and gear for break or damage.

## F: ADJUSTMENT

1) Using the ST, measure the height "A" from the AT main case mating surface to the ball bearing outer ring contact surface.

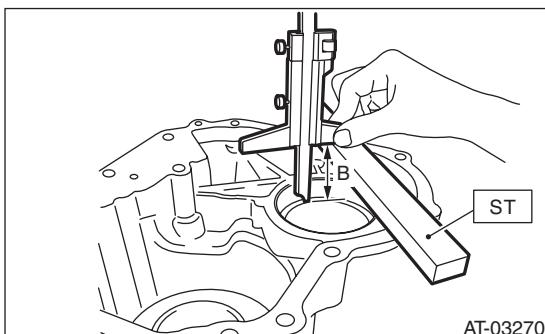
ST 499575400 GAUGE



AT-03269

2) Using the ST, measure the depth "B", which is from mating surface of extension case to ball bearing outer ring contact surface.

ST 499575400 GAUGE



AT-03270

3) Calculation formula:

When clearances are 0.05 mm (0.0020 in):

$$T \text{ (mm)} = B - A + 0.23$$

$$[T \text{ (in)} = B - A + 0.0091]$$

When clearances are 0.25 mm (0.0098 in):

$$T \text{ (mm)} = B - A + 0.03$$

$$[T \text{ (in)} = B - A + 0.0012]$$

T: Shim clearance

A: Height from the mating surface of the AT main case to the ball bearing outer ring end surface

B: Depth from mating surface of extension case to ball bearing outer ring contact surface

***Specification:***

***0.05 — 0.25 mm (0.0020 — 0.0098 in)***

4) Select the reduction gear shim so that the clearance is within the specified range.

Reduction gear shim	
Part No.	Thickness mm (in)
31288AA030	0.2 (0.008)
31288AA050	0.5 (0.020)
31288AA060	0.3 (0.012)