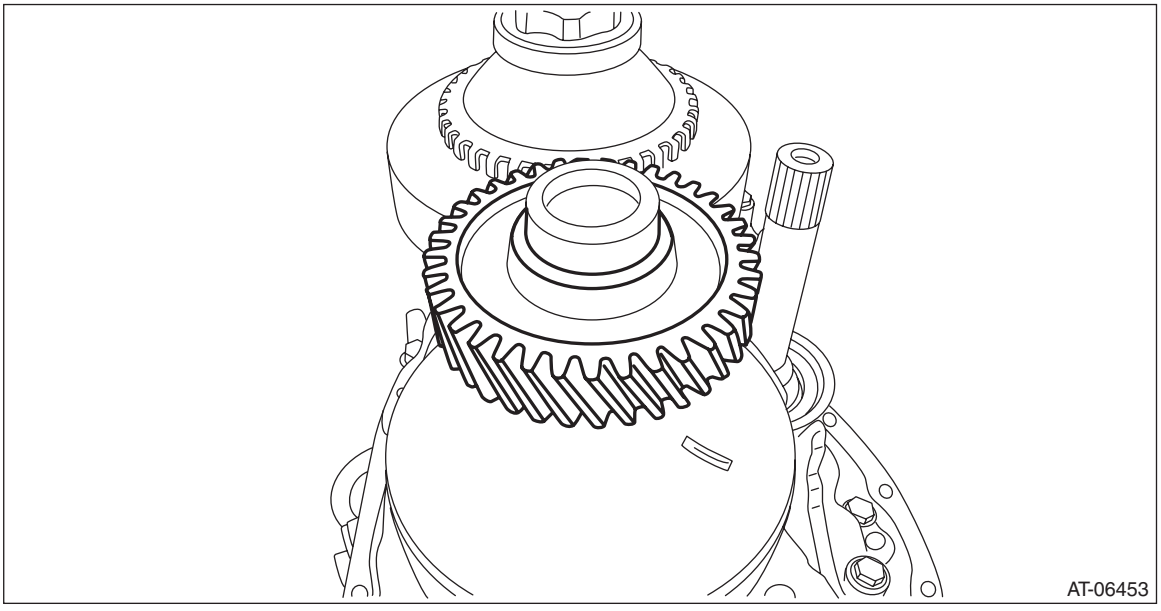
36.Reduction Drive Gear

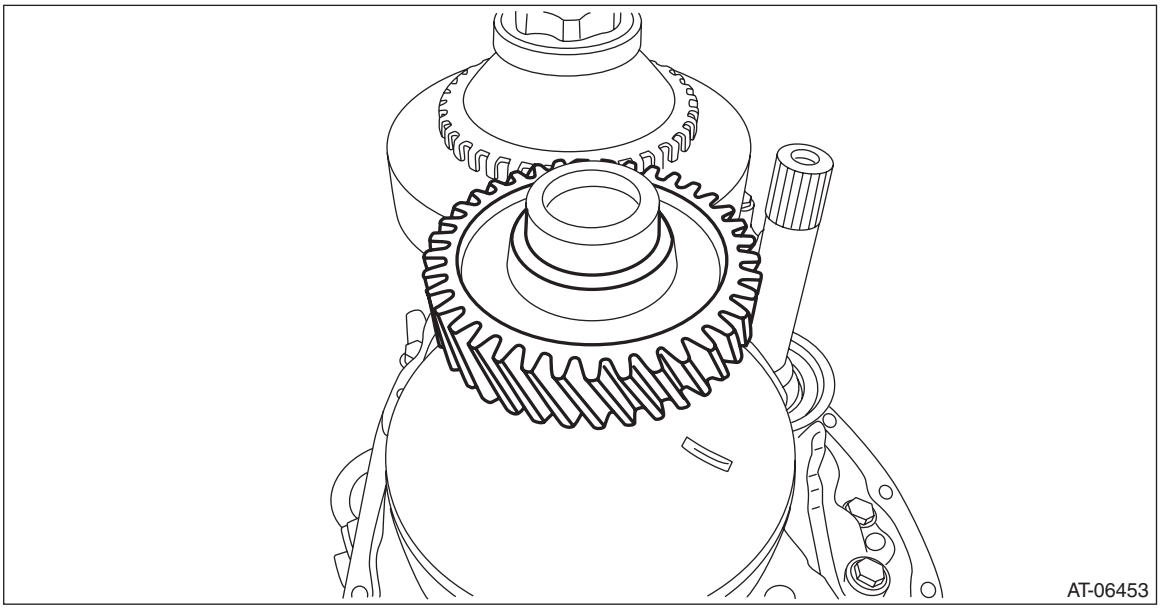
A: REMOVAL

1) Remove the transmission assembly from the vehicle. <Ref. to CVT-57, REMOVAL, Automatic Transmission Assembly.>
2) Remove the air breather hose. <Ref. to CVT-150, REMOVAL, Air Breather Hose.>
3) Remove the control valve body. <Ref. to CVT-114, REMOVAL, Control Valve Body.>
4) Remove the transmission harness. <Ref. to CVT-127, REMOVAL, Transmission Harness.>
5) Remove the turbine speed sensor. <Ref. to CVT-101, REMOVAL, Turbine Speed Sensor.>
6) Remove the secondary speed sensor. <Ref. to CVT-103, REMOVAL, Secondary Speed Sensor.>
7) Remove the primary speed sensor. <Ref. to CVT-105, REMOVAL, Primary Speed Sensor.>
8) Remove the inhibitor switch. <Ref. to CVT-97, REMOVAL, Inhibitor Switch.>
9) Remove the extension case. <Ref. to CVT-158, REMOVAL, Extension Case.>
10) Remove the transfer clutch assembly. <Ref. to CVT-162, REMOVAL, Transfer Clutch.>
11) Remove the transfer driven gear assembly. <Ref. to CVT-176, REMOVAL, Transfer Driven Gear.>
12) Remove the parking pawl. <Ref. to CVT-179, REMOVAL, Parking Pawl.>
13) Remove the reduction driven gear assembly. <Ref. to CVT-181, REMOVAL, Reduction Driven Gear.>
14) Remove the oil pan and oil strainer. <Ref. to CVT-110, REMOVAL, Oil Pan and Strainer.>
15) Remove the transmission control device. <Ref. to CVT-189, REMOVAL, Transmission Control Device.>
16) Remove the transmission case. <Ref. to CVT-195, REMOVAL, Transmission Case.>
17) Remove the reduction drive gear.



B: INSTALLATION

1) Install the reduction drive gear to secondary pulley.



2) Select the reduction drive gear shim. <Ref. to CVT-209, ADJUSTMENT, Reduction Drive Gear.>
3) Remove the transmission case, and install the selected shim.
4) Install the transmission case. <Ref. to CVT-197, INSTALLATION, Transmission Case.>
5) Install the transmission control device. <Ref. to CVT-192, INSTALLATION, Transmission Control Device.>
6) Install the oil strainer and oil pan. <Ref. to CVT-111, INSTALLATION, Oil Pan and Strainer.>
7) Install the reduction driven gear assembly. <Ref. to CVT-181, INSTALLATION, Reduction Driven Gear.>
8) Install the parking pawl. <Ref. to CVT-180, INSTALLATION, Parking Pawl.>
9) Install the transfer driven gear assembly. <Ref. to CVT-177, INSTALLATION, Transfer Driven Gear.>
10) Install the transfer clutch assembly. <Ref. to CVT-164, INSTALLATION, Transfer Clutch.>
11) Install the extension case. <Ref. to CVT-159, INSTALLATION, Extension Case.>
12) Install the inhibitor switch. <Ref. to CVT-99, INSTALLATION, Inhibitor Switch.>
13) Install the secondary speed sensor. <Ref. to CVT-103, INSTALLATION, Secondary Speed Sensor.>
14) Install the primary speed sensor. <Ref. to CVT-106, INSTALLATION, Primary Speed Sensor.>
15) Install the turbine speed sensor. <Ref. to CVT-101, INSTALLATION, Turbine Speed Sensor.>
16) Install the transmission harness. <Ref. to CVT-132, INSTALLATION, Transmission Harness.>
17) Install the control valve body. <Ref. to CVT-119, INSTALLATION, Control Valve Body.>
18) Install the air breather hose. <Ref. to CVT-151, INSTALLATION, Air Breather Hose.>
19) Install the transmission assembly to the vehicle. <Ref. to CVT-71, INSTALLATION, Automatic Transmission Assembly.>

C: INSPECTION

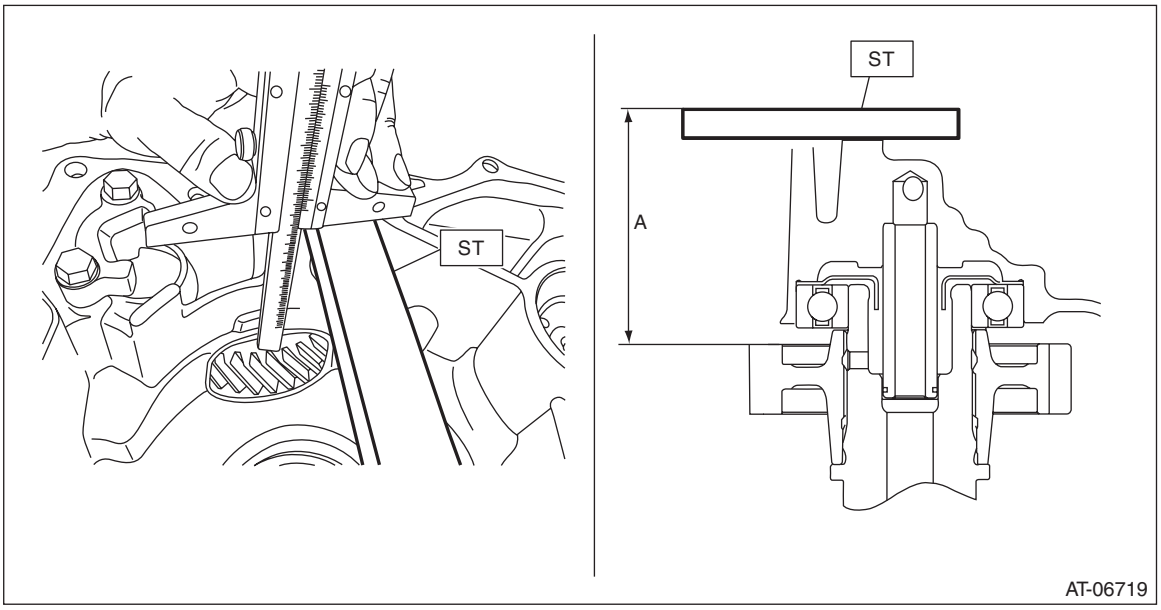
Check the reduction drive gear for breakage or damage.

D: ADJUSTMENT

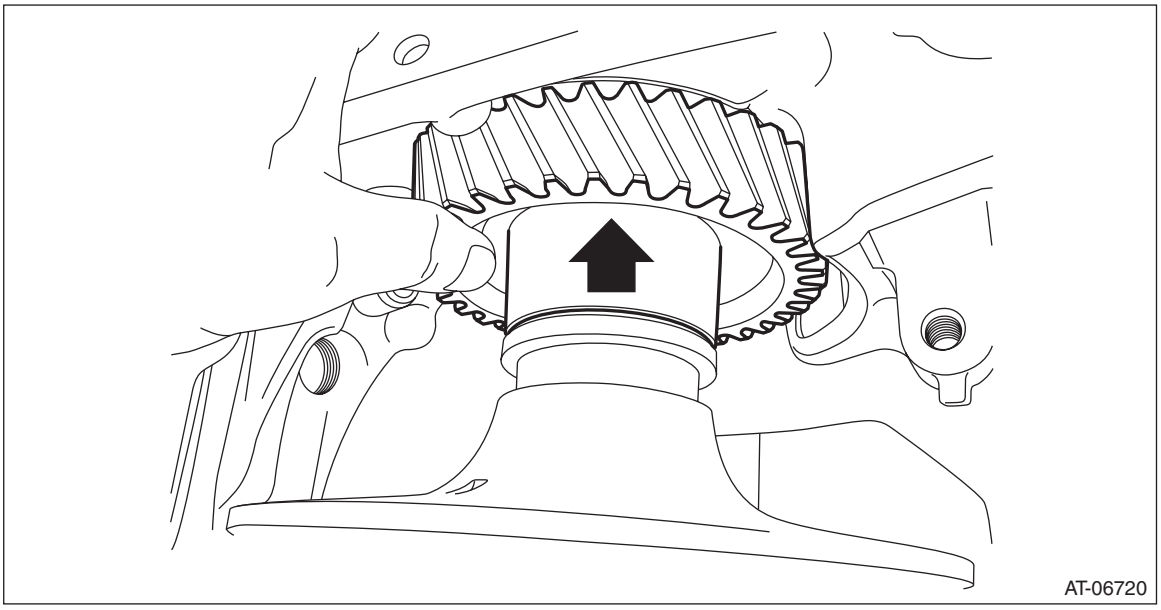
1) Install the transmission case, and secure it with four or five bolts.

Tightening torque:
22 N·m (2.2 kgf-m, 16.2 ft-lb)

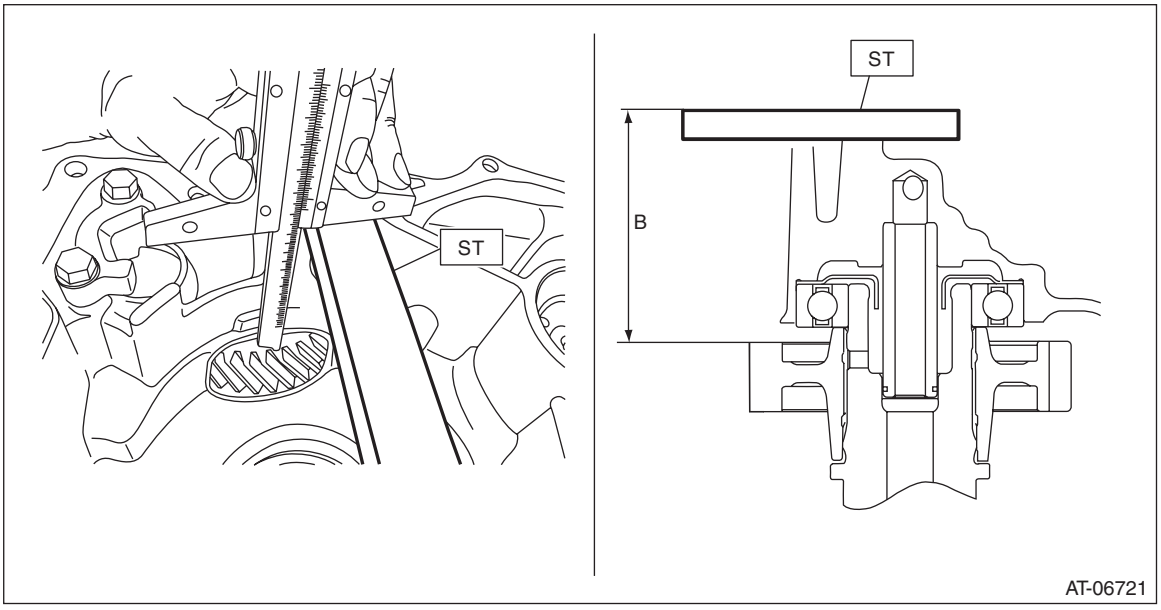
2) Measure depth “A” from the ST upper face to the reduction drive gear end face.
ST 499575400 GAUGE



3) Raise and hold the reduction drive gear.



4) Measure depth “B” from the ST upper face to the reduction drive gear end face.
ST 499575400 GAUGE



5) Obtain the thickness of reduction drive gear shim using the following formula to select one to three reduction drive gear shims.
T (mm) = A – B – (0.05 — 0.25)
[T (in) = A – B – (0.002 — 0.01)]
T: Reduction drive gear shim thickness
A: Depth from the ST upper face to the reduction drive gear end surface
B: Depth from the ST upper face to the reduction drive gear end surface
0.05 — 0.25 mm (0.002 — 0.01 in): Clearance

Part No.	Reduction drive gear shim thickness mm (in)
31288AA260	0.3 (0.012)
31288AA270	0.4 (0.016)
31288AA280	0.5 (0.020)
31288AA290	0.6 (0.024)