30. Reduction Driven Gear

A: REMOVAL

1. MPT MODEL

1) Remove the transmission assembly from the vehicle. <Ref. to 4AT-36, REMOVAL, Automatic Transmission Assembly.>

2) Remove rear vehicle speed sensor, and separate the transmission case and extension case. <Ref. to 4AT-75, REMOVAL, Extension Case.>

3) Set the range select lever to “P”.

4) Straighten the staked portion, and remove the lock nut.

5) Using the ST1 and ST2, extract the reduction driven gear.

   ST1 499737000 PULLER
   ST2 899524100 PULLER SET

2. VTD MODEL

1) Remove the transmission assembly from the vehicle. <Ref. to 4AT-36, REMOVAL, Automatic Transmission Assembly.>

2) Remove rear vehicle speed sensor, and separate the transmission case and extension case. <Ref. to 4AT-75, REMOVAL, Extension Case.>

3) Remove the rear drive shaft. <Ref. to 4AT-86, REMOVAL, Rear Drive Shaft.>

4) Set the range select lever to “P”.

5) Straighten the staked portion, and remove the lock nut.

6) Using the ST1 and ST2, extract the reduction driven gear.

   ST1 499737000 PULLER
   ST2 899524100 PULLER SET

7) Pull out the center differential assembly. <Ref. to 4AT-91, REMOVAL, Center Differential Carrier.>

B: INSTALLATION

1. MPT MODEL

1) Set the select lever to “P” range.

2) Using a plastic hammer, install reduction driven gear assembly and new washer, and tighten new drive pinion lock nut.

   Tightening torque:
   100 N·m (10.2 kgf-m, 73.8 ft-lb)

3) After tightening, stake the lock nut securely.

4) Combine the transmission case with the extension case, and install rear vehicle speed sensor. <Ref. to 4AT-75, INSTALLATION, Extension Case.>

5) Install the transmission assembly to vehicle. <Ref. to 4AT-38, INSTALLATION, Automatic Transmission Assembly.>
2. VTD MODEL
1) Set the select lever to “P” range.
2) Using a plastic hammer, install reduction driven gear assembly.
3) Using a plastic hammer, install the center differential assembly.
4) Install a new self-lock nut and a washer.

**Tightening torque:**
100 N·m (10.2 kgf-m, 73.8 ft-lb)

5) After tightening, stake the lock nut securely.
6) Insert the rear drive shaft assembly. <Ref. to 4AT-86, INSTALLATION, Rear Drive Shaft.>
7) Combine the transmission case with the extension case, and install rear vehicle speed sensor. <Ref. to 4AT-75, INSTALLATION, Extension Case.>
8) Install the transmission assembly to vehicle. <Ref. to 4AT-38, INSTALLATION, Automatic Transmission Assembly.>

C: DISASSEMBLY
1) Remove snap ring from reduction driven gear.
2) Using ST, remove ball bearing from reduction driven gear.
   **ST 498077600 REMOVER**
3) Remove snap ring reduction driven gear.

D: ASSEMBLY
1) Install snap ring to reduction driven gear.
2) Using a press, install a new ball bearing to reduction driven gear.
3) Install snap ring to reduction driven gear.

E: INSPECTION
Check ball bearing and gear for dents or damage.