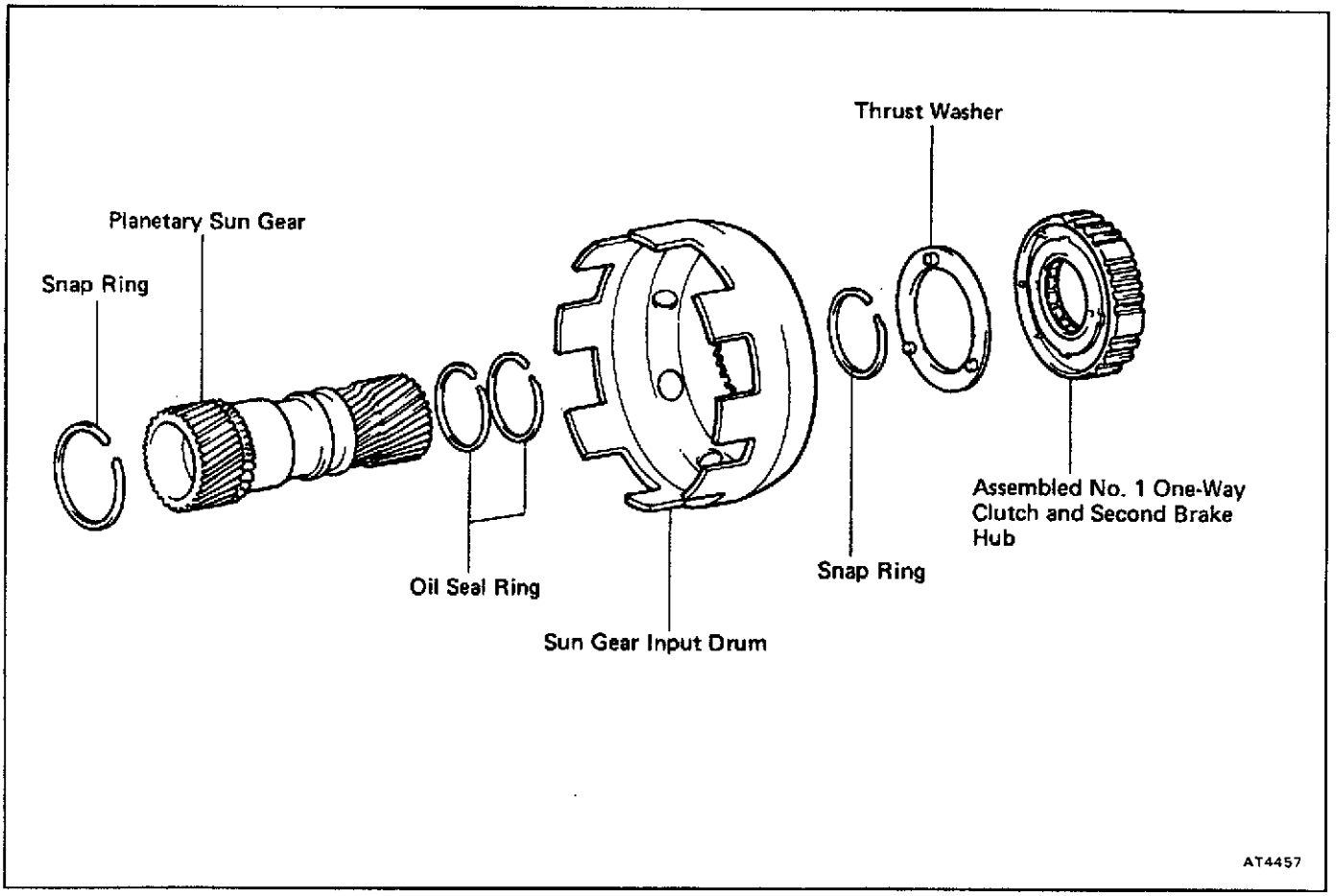
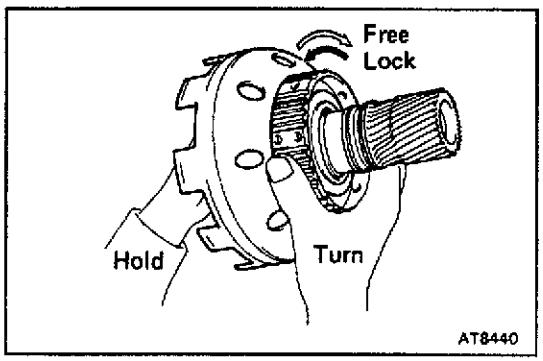
PLANETARY SUN GEAR

COMPONENTS

AT05V–03

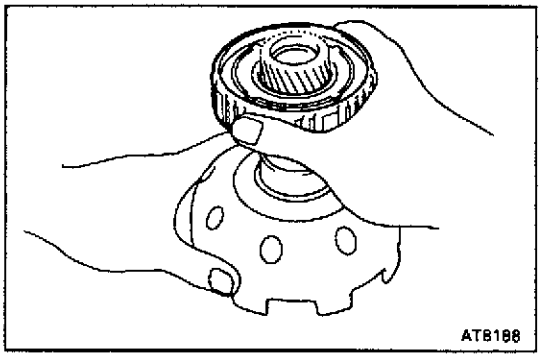




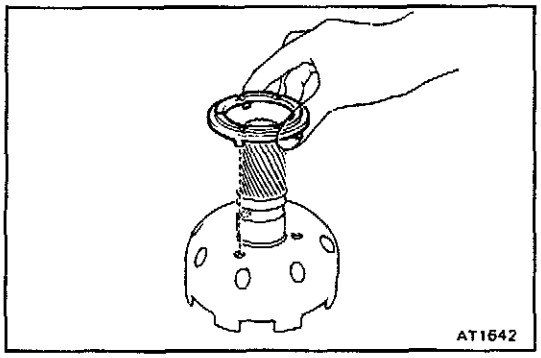
PLANETARY SUN GEAR AND NO.1 ONE–WAY CLUTCH DISASSEMBLY

AT05W–04

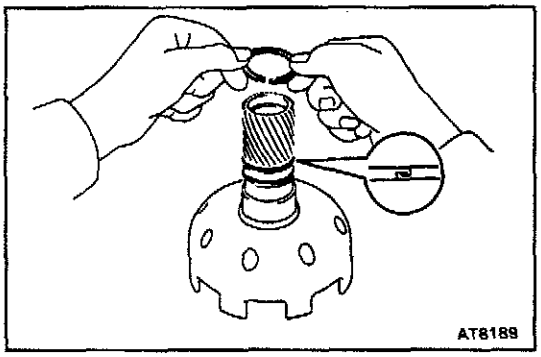
1. **CHECK OPERATION OF NO.1 ONE–WAY CLUTCH**
   Hold the planetary sun gear and turn the second brake hub. Check that the second brake hub must be able to turn freely clockwise and locks counterclockwise.



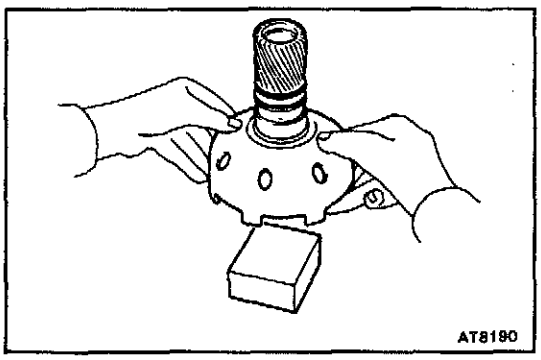
2. **REMOVE ASSEMBLED NO.1 ONE–WAY CLUTCH AND SECOND BRAKE HUB**



3. REMOVE THRUST WASHER FROM SUN GEAR INPUT DRUM

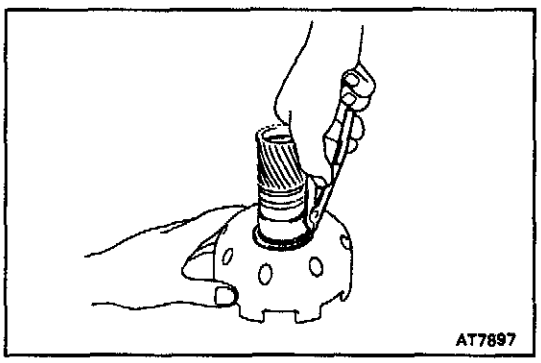


4. REMOVE 2 OIL SEAL RINGS



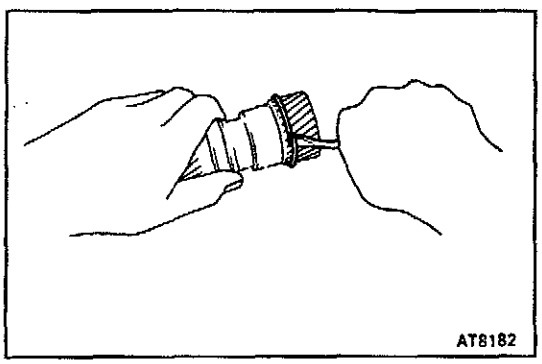
5. REMOVE SUN GEAR INPUT DRUM FROM PLANETARY SUN GEAR

(a) Use a wooden block or similar, as work stand.

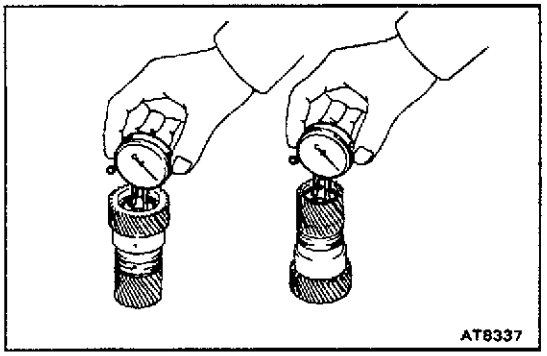


(b) Using snap ring pliers, remove the snap ring.

(c) Remove the sun gear input drum from the planetary sun gear.



6. REMOVE SNAP RING FROM PLANETARY SUN GEAR


AT8337

PLANETARY SUN GEAR INSPECTION AT05X-03

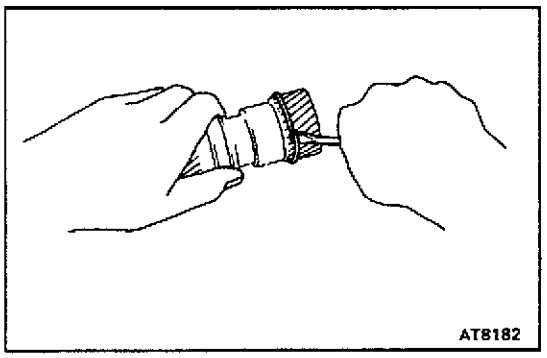
CHECK PLANETARY SUN GEAR BUSHINGS

Using a dial indicator, measure the inside diameter of the planetary sun gear bushings.

Maximum inside diameter:

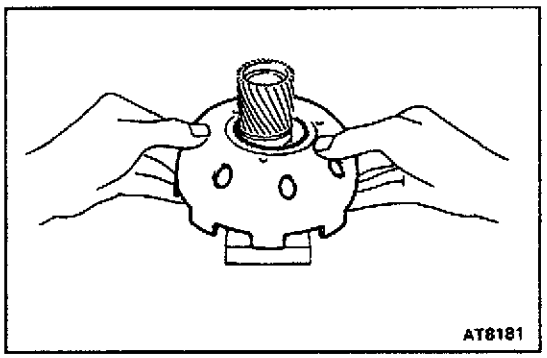
27.08 mm (1.0661 in.)

If the inside diameter is greater than the maximum, replace the planetary sun gear.


AT8182

PLANETARY SUN GEAR AND NO.1 ONE-WAY CLUTCH ASSEMBLY AT05Y-07

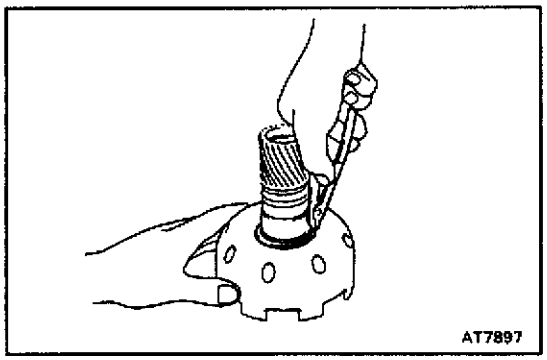
1. INSTALL SNAP RING TO PLANETARY SUN GEAR


AT8181

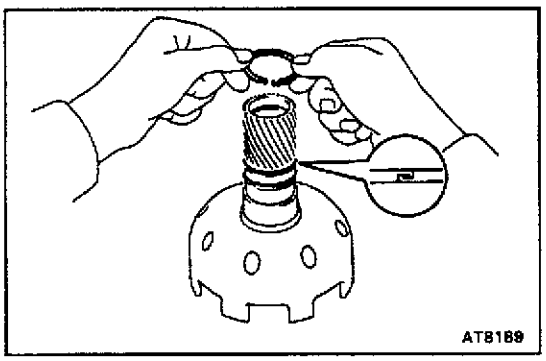
2. INSTALL SUN GEAR INPUT DRUM

(a) Place a wooden block or similar, as a work stand and place the planetary sun gear onto it.

(b) Install the sun gear input drum onto the planetary sun gear.


AT7897

(c) Install the snap ring with snap ring pliers.


AT8189

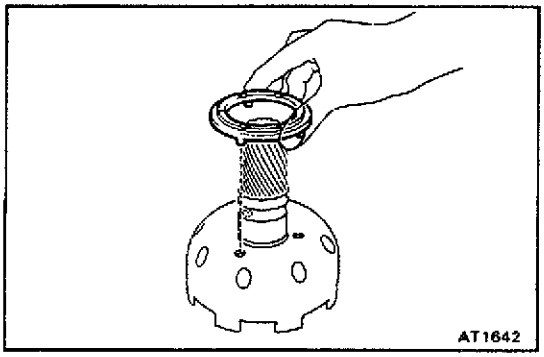
3. INSTALL OIL SEAL RINGS

(a) Coat the 2 oil seal rings with ATF.

(b) Install the 2 oil seal rings onto the planetary sun gear.

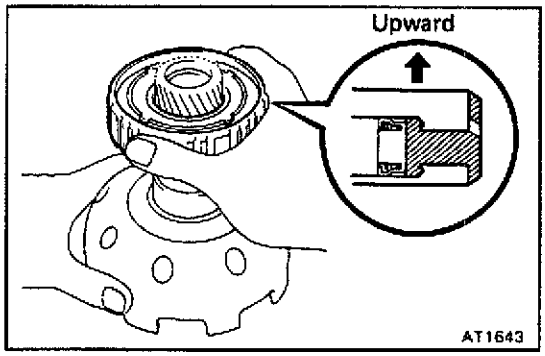
NOTICE: Do not spread the ring ends too much.

HINT: After installing the oil seal rings, check that they rotate smoothly.

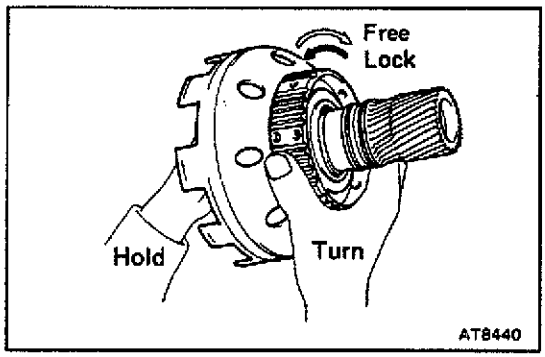


4. INSTALL THRUST WASHER

HINT: Make sure that the lug shapes match the holes on the sun gear input drum.



5. INSTALL ASSEMBLED NO.1 ONE–WAY CLUTCH AND SECOND BRAKE HUB ONTO PLANETARY SUN GEAR



6. CHECK OPERATION OF NO.1 ONE–WAY CLUTCH

Hold the planetary sun gear and turn the second brake hub. Check that the second brake hub must be able to turn freely clockwise and locks counterclockwise.