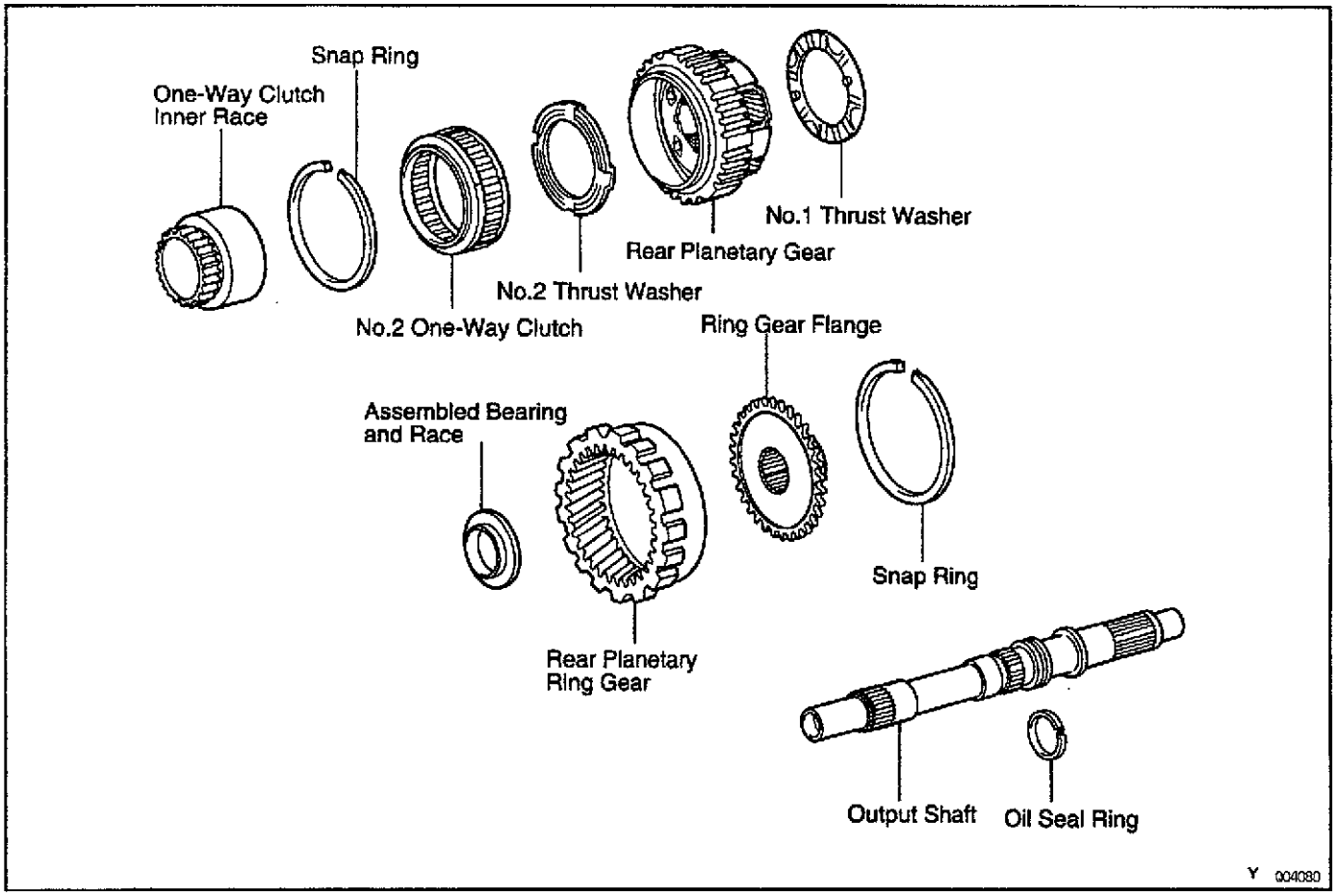
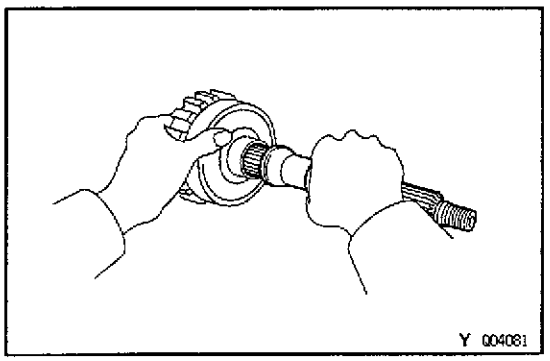
REAR PLANETARY GEAR

AT0EC−02

COMPONENTS

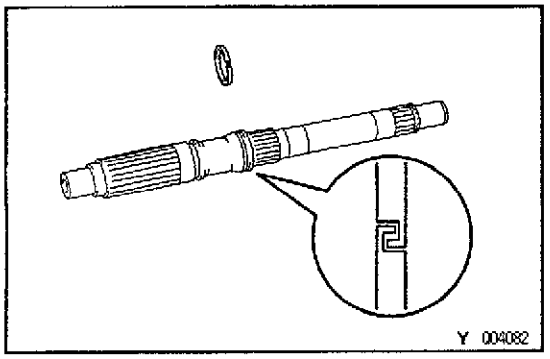




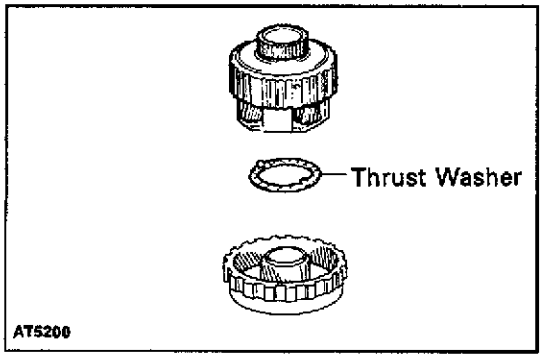
AT0ED−04

REAR PLANETARY GEAR, NO.2 ONE−WAY CLUTCH AND OUTPUT SHAFT DISASSEMBLY

1. REMOVE OUTPUT SHAFT FROM REAR PLANETARY GEAR ASSEMBLY

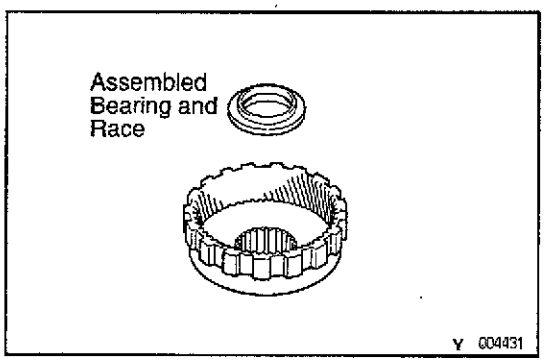


2. REMOVE OIL SEAL RING FROM OUTPUT SHAFT

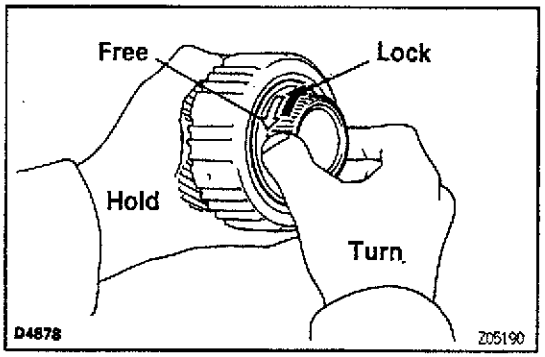


3. REMOVE REAR PLANETARY GEAR FROM REAR PLANETARY RING GEAR

(a) Remove the No.1 thrust washer from the rear planetary gear.

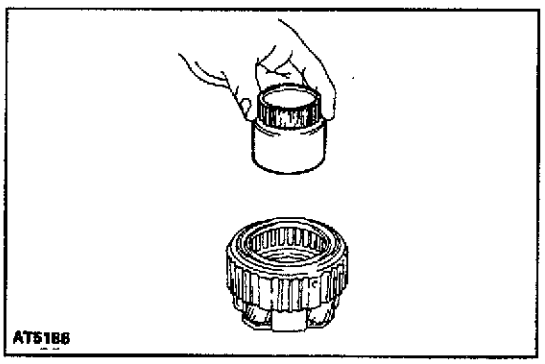


(b) Remove the assembled bearing and race from the rear planetary ring gear.



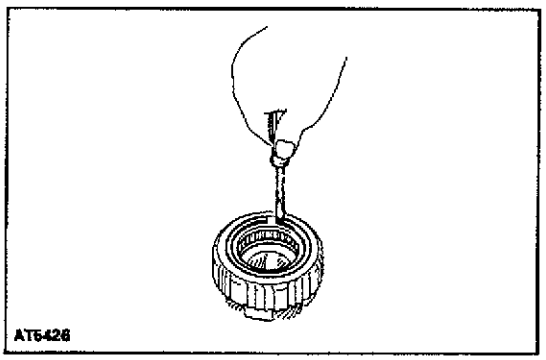
4. CHECK OPERATION OF NO.2 ONE−WAY CLUTCH

Hold the planetary gear and turn the one−way clutch inner race. The one−way clutch inner race must be able to turn freely counterclockwise and locks clockwise.

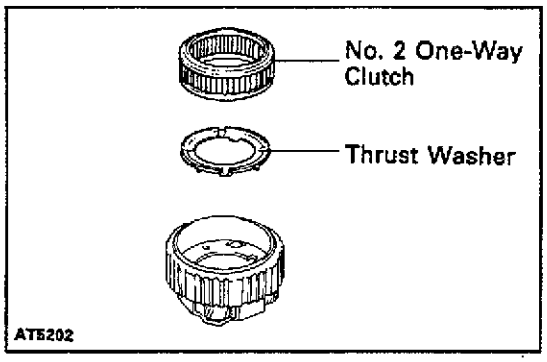


5. REMOVE NO.2 ONE−WAY CLUTCH

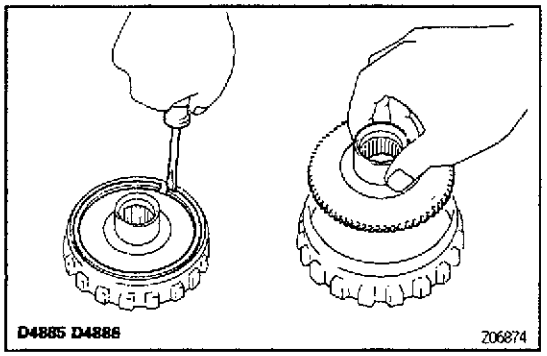
(a) Remove the one−way clutch inner race from the rear planetary gear.



(b) Using a screwdriver, remove the snap ring.



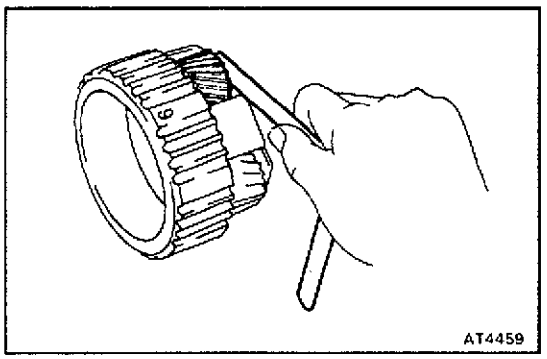
(c) Remove No.2 one−way clutch with retainers and No. 2 thrust washer from the planetary gear.



6. REMOVE RING GEAR FLANGE

(a) Using a screwdriver, remove the snap ring.

(b) Remove the ring gear flange.



REAR PLANETARY GEAR INSPECTION

AT0EE−03

MEASURE PLANETARY PINION GEAR THRUST CLEARANCE

Using a feeler gauge, measure the planetary pinion gear thrust clearance.

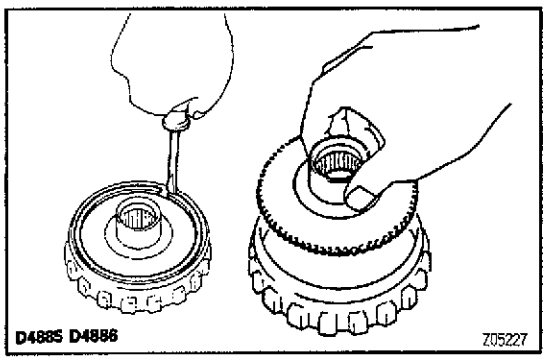
Standard clearance:

0.2−0.6 mm (0.008−0.024 in.)

Maximum clearance:

1.0 mm (0.039 in.)

If the clearance is greater than the maximum, replace the planetary gear assembly.



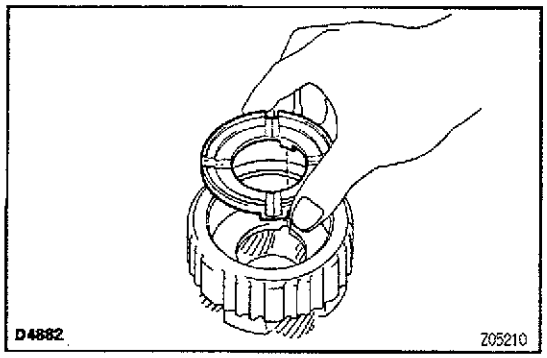
REAR PLANETARY GEAR, NO.2 ONE−WAY CLUTCH AND OUTPUT SHAFT ASSEMBLY

AT0EF−04

1. INSTALL RING GEAR FLANGE

(a) Install the ring gear flange.

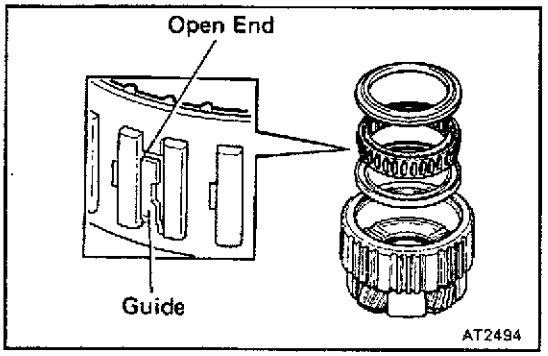
(b) Using a screwdriver, install the snap ring.



2. INSTALL NO.2 THRUST WASHER

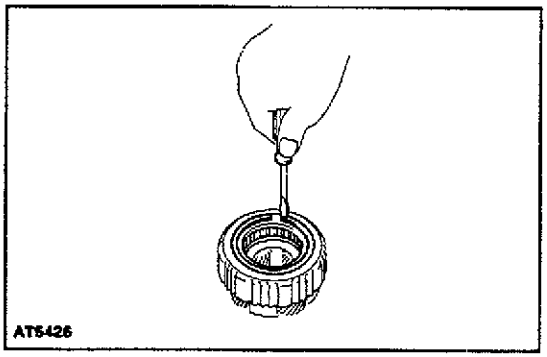
(a) Coat the thrust washer with petroleum jelly.

(b) Install the thrust washer onto the rear planetary gear.
HINT: Make sure that the lug shapes match the cutout portions on the rear planetary gear.

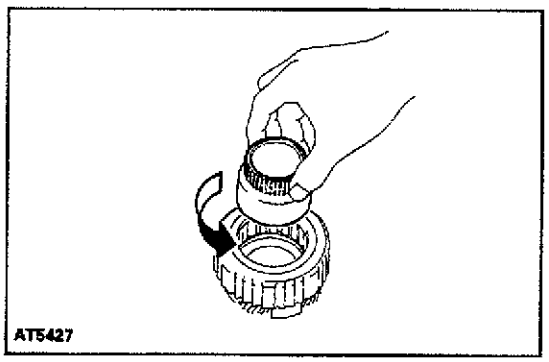


3. INSTALL NO.2 ONE–WAY CLUTCH

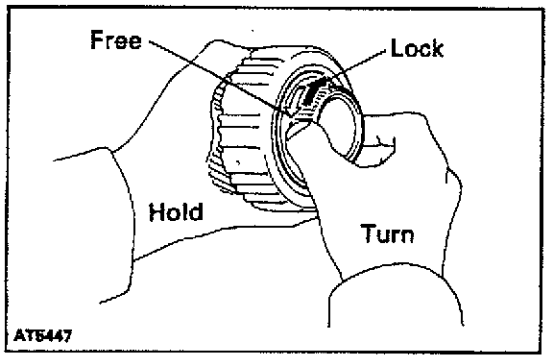
(a) Install the one–way clutch and 2 retainers into the rear planetary gear, as shown.
HINT: Make sure that the open ends of the guides on the one–way clutch face upward.



(b) Using a screwdriver, install the snap ring.

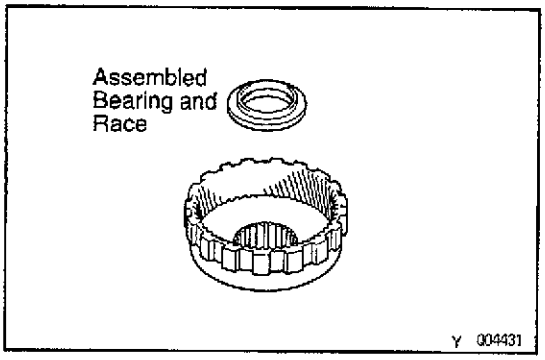


(c) While turning it counterclockwise, install the one–way clutch inner race to the rear planetary gear.



4. CHECK OPERATION OF NO.2 ONE–WAY CLUTCH

Hold the planetary gear and turn the one–way clutch inner race. The one – way clutch inner race turns freely counterclockwise and locks clockwise.



AT

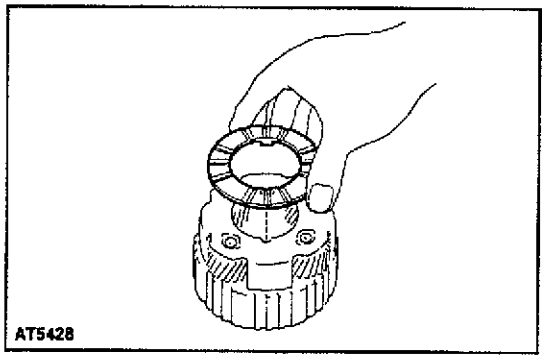
5. INSTALL ASSEMBLED BEARING AND RACE

Coat the assembled bearing and race with petroleum jelly, and install them and sun gear onto the rear planetary ring gear.

Assembled bearing and race diameter

mm (in.)

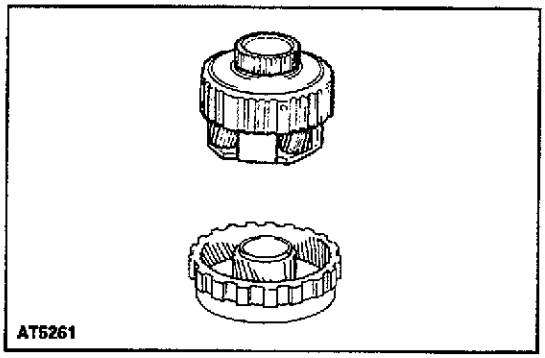
	Inside	Outside
Assembled bearing and race	54.5 (2.146)	27.6 (1.087)



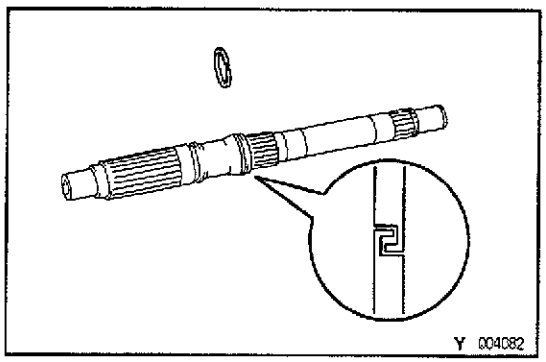
6. INSTALL NO.1 THRUST WASHER

Coat the No.1 thrust washer with petroleum jelly, and install it from the rear planetary gear.

HINT: Make sure that the lug shapes match the cutout portions on the rear planetary gear.



7. INSTALL REAR PLANETARY GEAR ONTO REAR PLANETARY RING GEAR

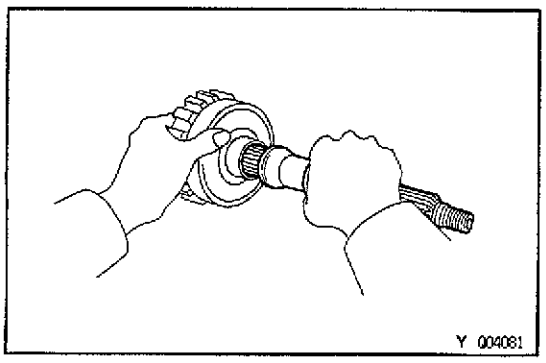


8. INSTALL OIL SEAL RING

Coat the oil seal ring with ATF and install them to the output shaft.

NOTICE: Do not spread the ring ends too much.

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



9. INSTALL OUTPUT SHAFT INTO REAR PLANETARY GEAR ASSEMBLY