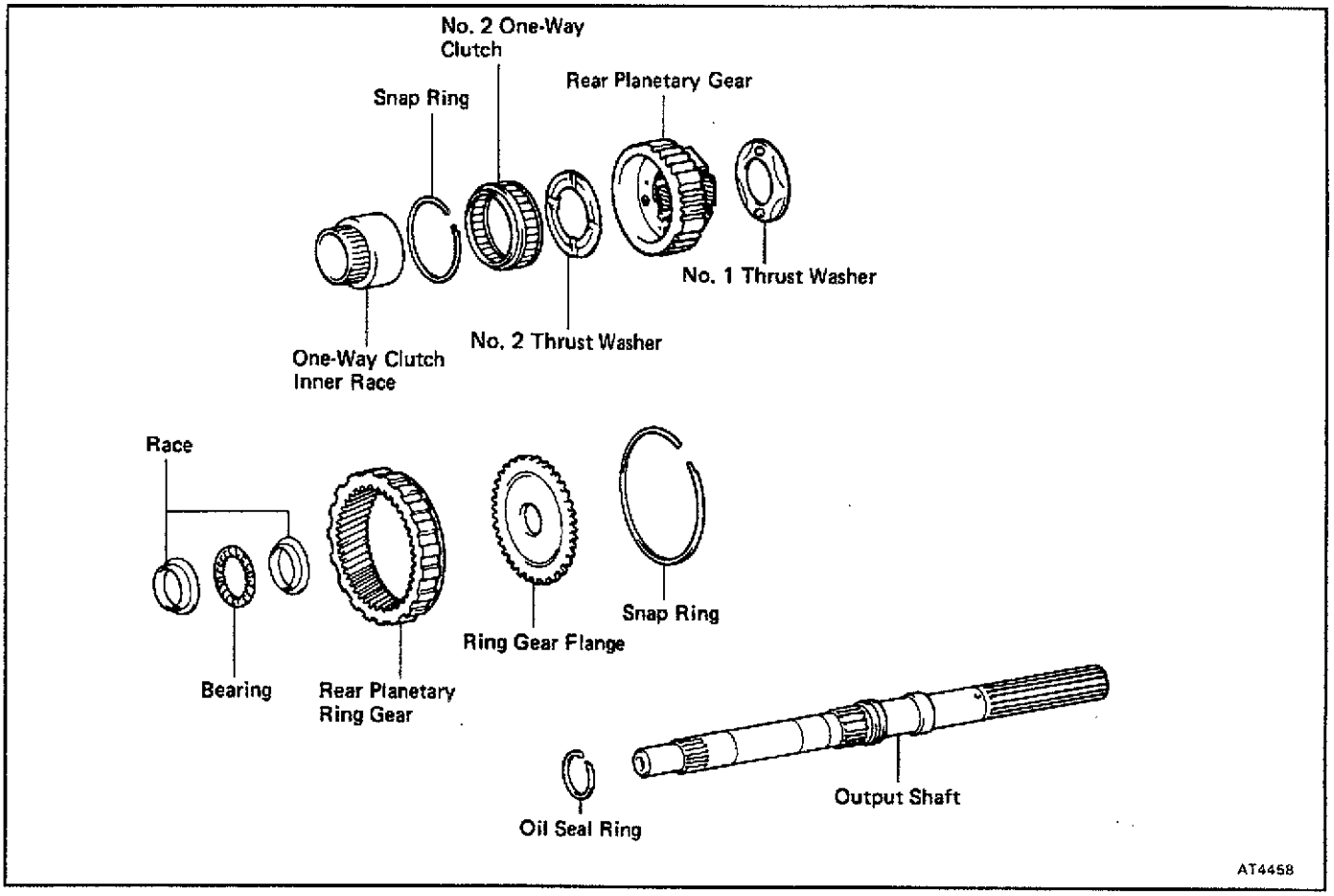
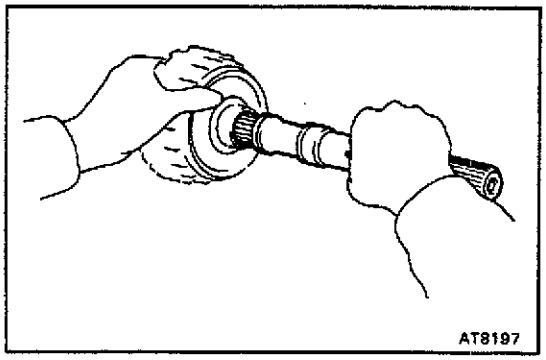
# REAR PLANETARY GEAR

## COMPONENTS

AT065–03

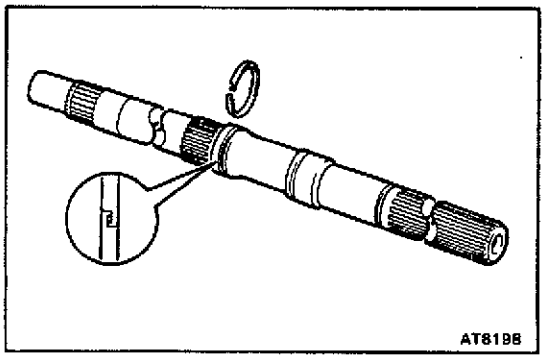


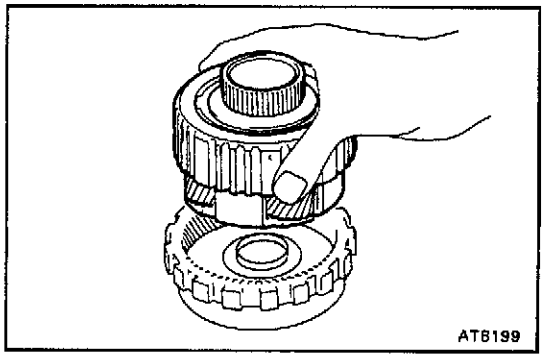

AT066–05

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

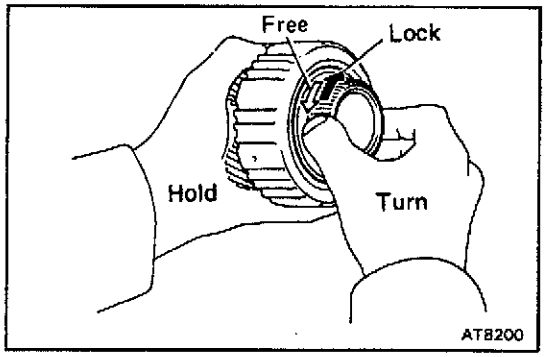
1. REMOVE OUTPUT SHAFT FROM REAR PLANETARY GEAR ASSEMBLY




2. REMOVE OIL SEAL RING FROM OUTPUT SHAFT

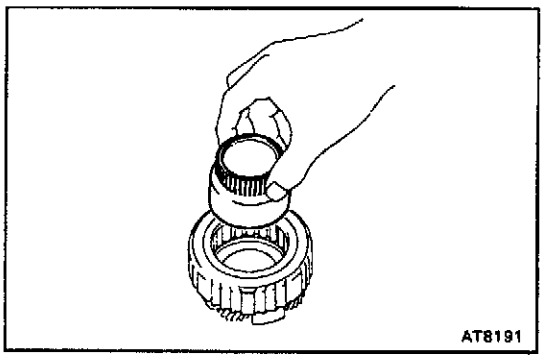



**3. REMOVE REAR PLANETARY GEAR FROM REAR PLANETARY RING GEAR**



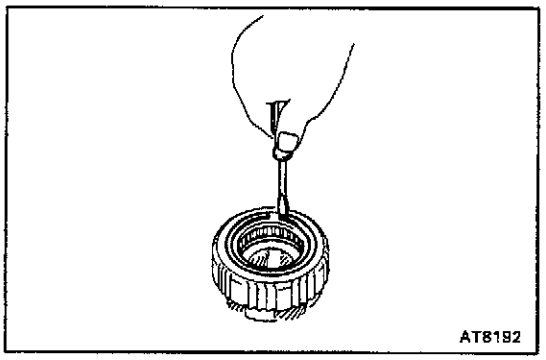

**4. CHECK OPERATION OF NO.2 ONE–WAY CLUTCH**

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

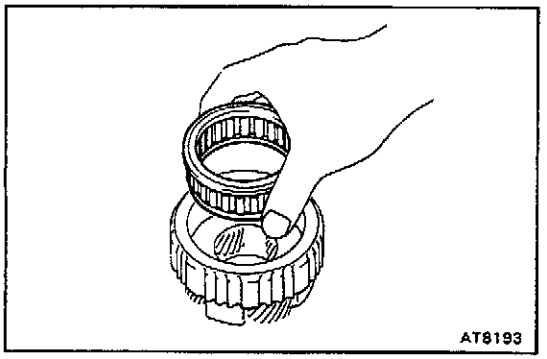



**5. REMOVE NO.2 ONE–WAY CLUTCH**

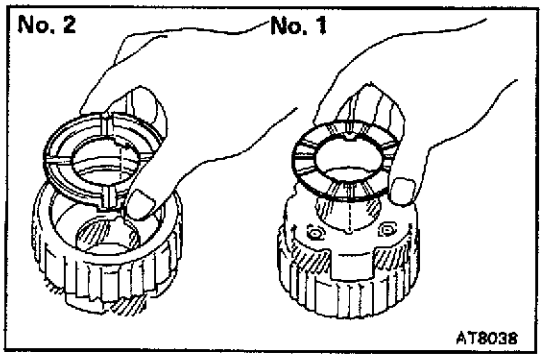
(a) Remove the one–way clutch inner race from the rear planetary gear.




(b) Remove the snap ring with a screwdriver.

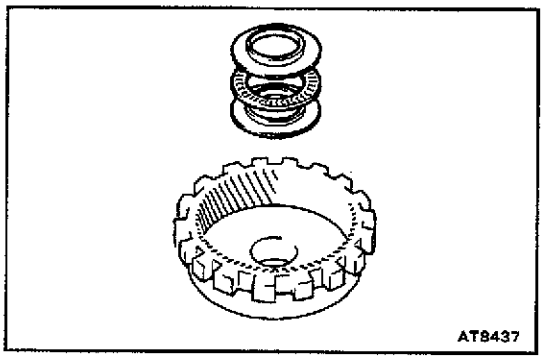



(c) Remove the No. 2 one – way clutch with retainers from the planetary gear.

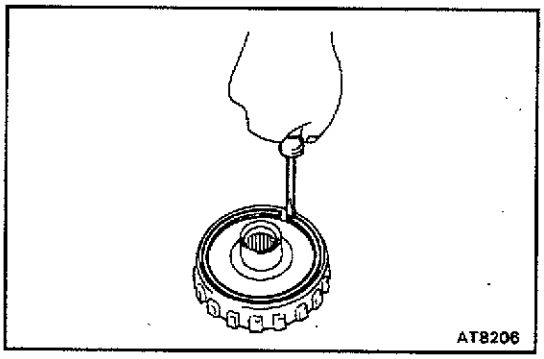



6. **REMOVE NO.2 AND NO.1 THRUST WASHERS**



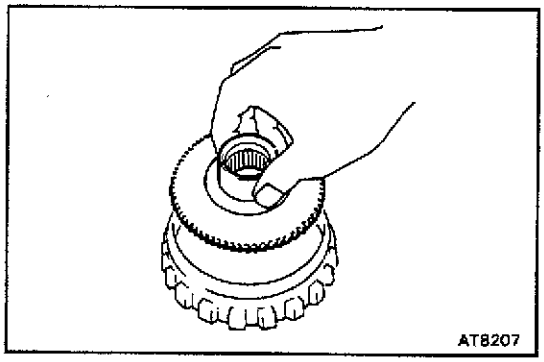



7. **REMOVE RACES AND BEARING FROM REAR PLANETARY RING GEAR**

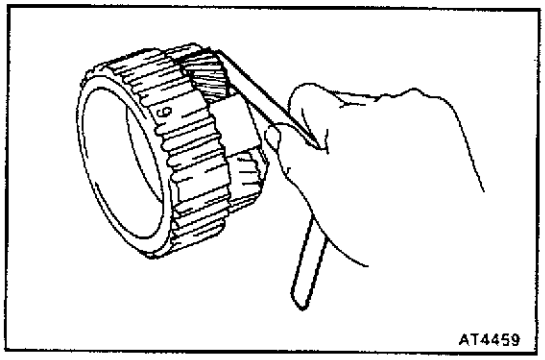



8. **REMOVE RING GEAR FLANGE**

(a) Remove the snap ring with a screwdriver.




(b) Remove the ring gear flange.




## REAR PLANETARY GEAR INSPECTION AT067-04

**MEASURE PLANETARY PINION GEAR THRUST CLEARANCE**

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

**Standard clearance:**

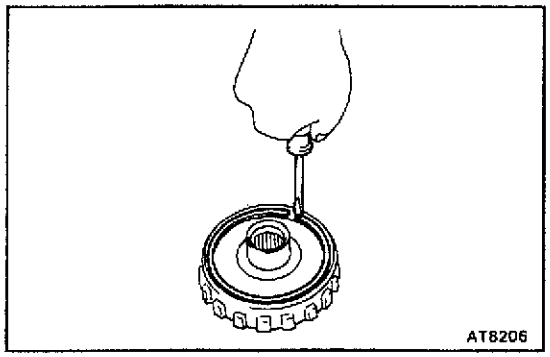
**0.20—0.60 mm (0.0079—0.0236 in.)**

**Maximum clearance:**

**1.00 mm (0.0394 in.)**

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





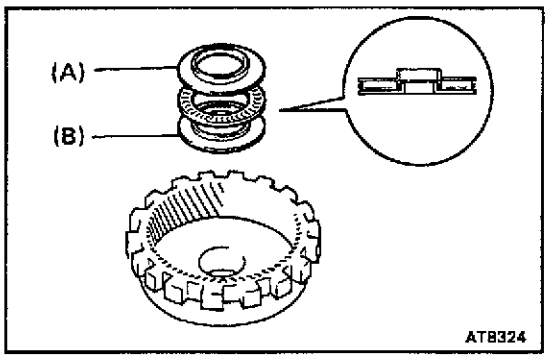

## REAR PLANETARY GEAR, NO.2 ONE–WAY CLUTCH AND OUTPUT SHAFT ASSEMBLY

AT066-07

### 1. INSTALL RING GEAR FLANGE

(a) Install the ring gear flange.

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



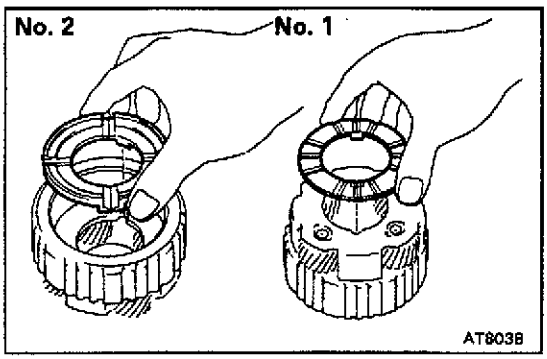

### 2. INSTALL RACES AND BEARING

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

**Races and bearing diameter**

mm (in.)

| | Inside | Out side |
|---|---|---|
| Race (A) | 28.8 (1.134) | 44.8 (1.764) |
| Bearing | 30.1 (1.185) | 44.7 (1.760) |
| Race (B) | 27.8 (1.094) | 44.8 (1.764) |

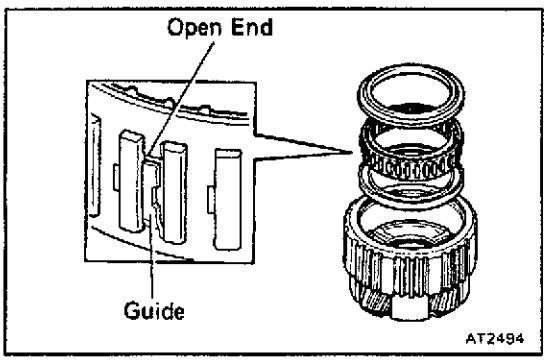



### 3. INSTALL NO.1 AND NO.2 THRUST WASHERS

(a) Coat the thrust washers with petroleum jelly.

(b) Install the thrust washers onto both sides of the rear planetary gear.

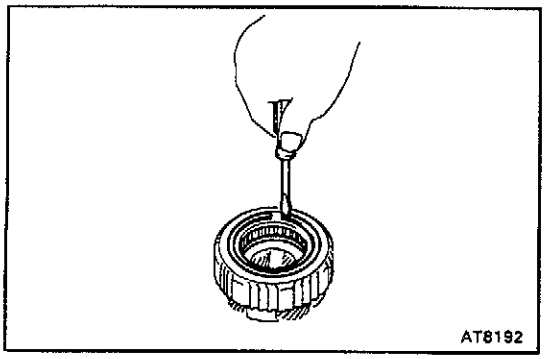
HINT: Make sure that the lug shapes match the cutout portions on the rear planetary gear.



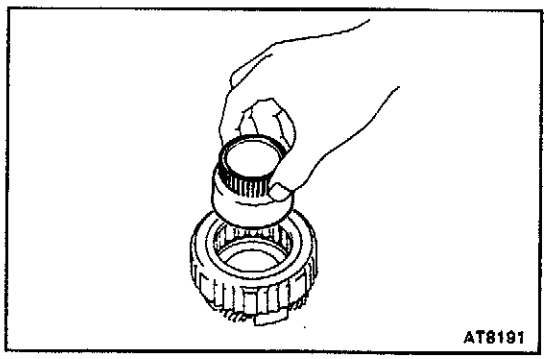

### 4. INSTALL NO.2 ONE–WAY CLUTCH

(a) Install the one–way clutch and 2 retainers into the rear planetary gear.

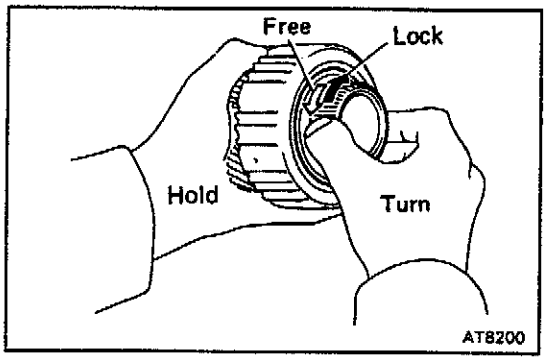
HINT: Make sure that the open ends of the guides on the one–way clutch are faced upward.




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

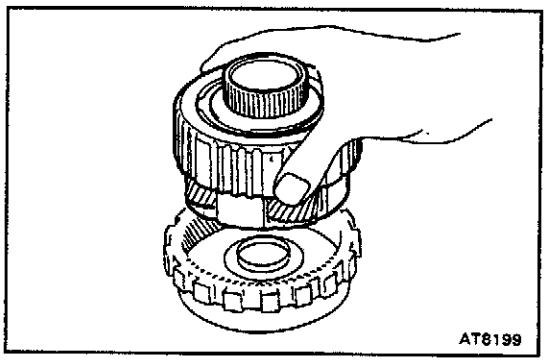



(c) While turning counterclockwise, install the one–way clutch inner race to rear planetary gear.

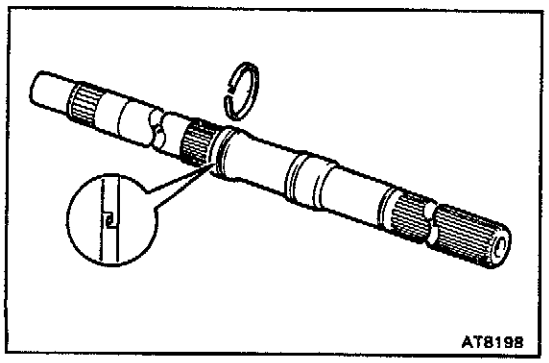



**5. CHECK OPERATION OF NO.2 ONE–WAY CLUTCH**

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




**6. INSTALL REAR PLANETARY GEAR ONTO REAR PLANETARY RING GEAR**

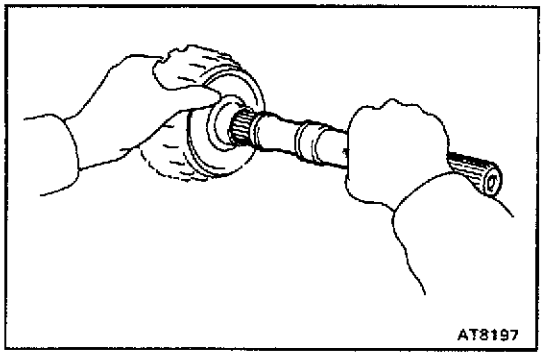



**7. INSTALL OIL SEAL RING**

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

**NOTICE: Do not spread the ring ends too match.**

HINT: After installing the oil seal ring, check that it rotates smoothly.




8. **INSTALL OUTPUT SHAFT INTO REAR PLANETARY GEAR ASSEMBLY**

AT