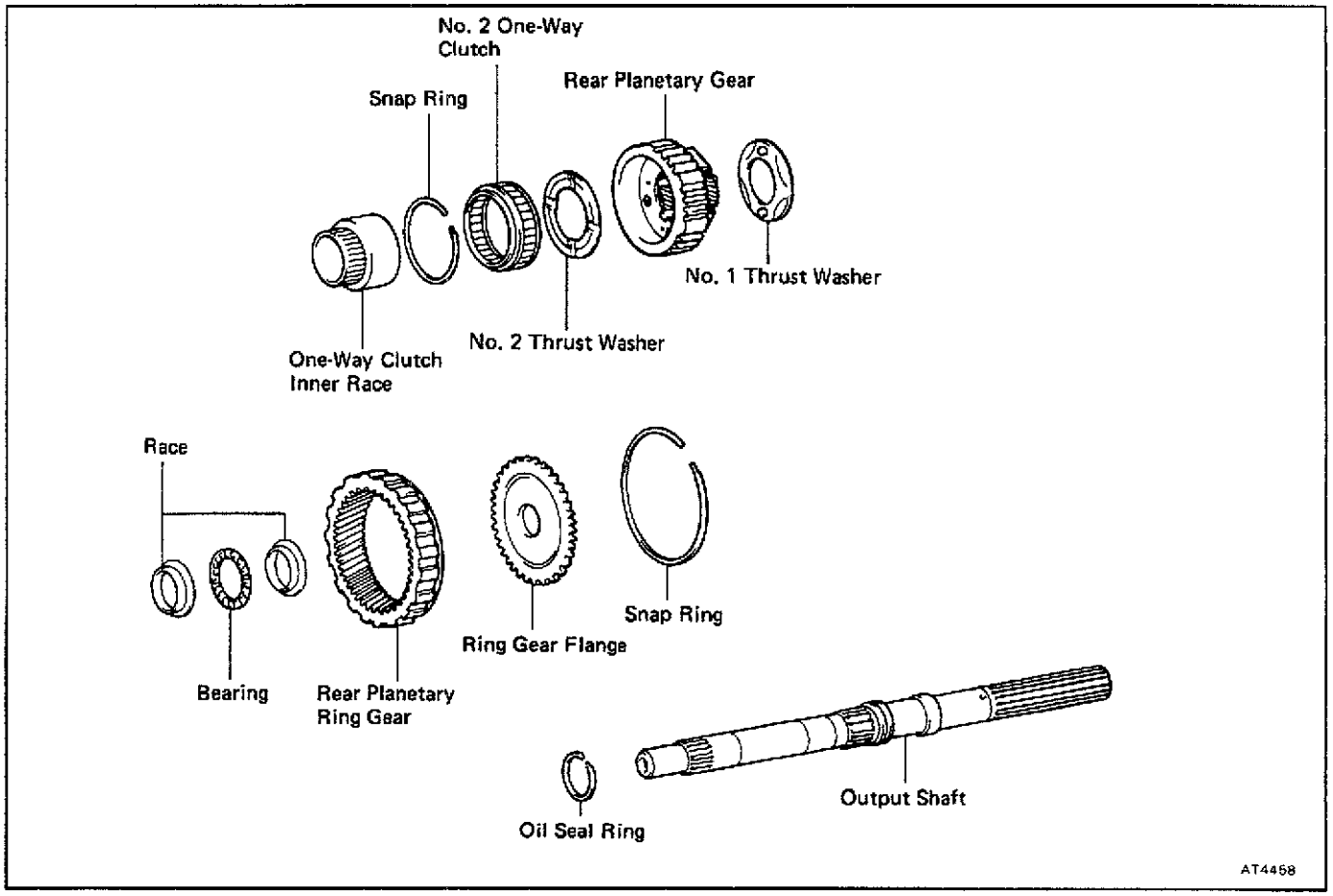
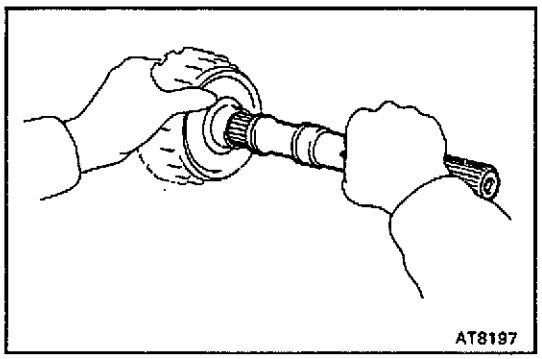
REAR PLANETARY GEAR

AT065-01

COMPONENTS

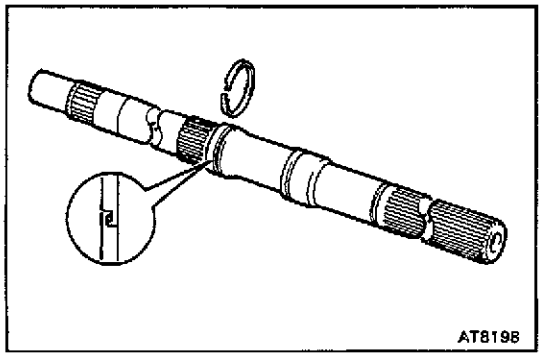




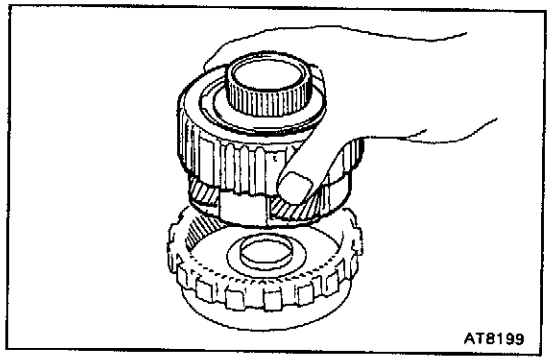
AT066-03

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

1. REMOVE OUTPUT SHAFT FROM REAR PLANETARY GEAR ASSEMBLY

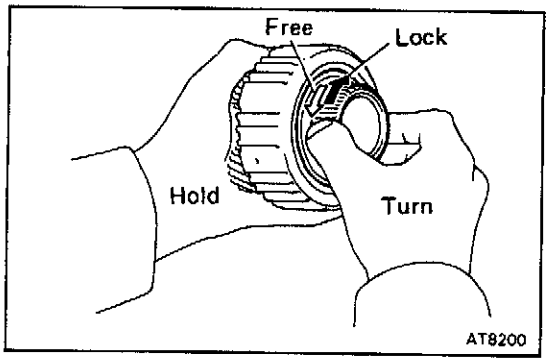


2. REMOVE OIL SEAL RING FROM OUTPUT SHAFT



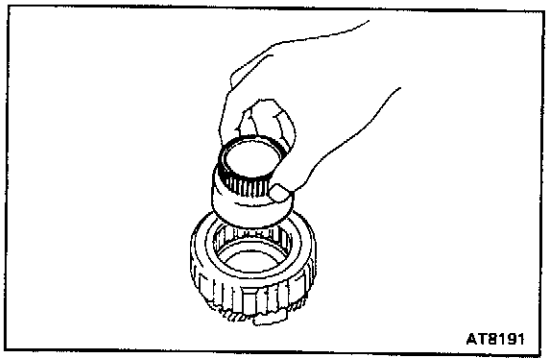
3. REMOVE REAR PLANETARY GEAR FROM REAR PLANETARY RING GEAR

AT



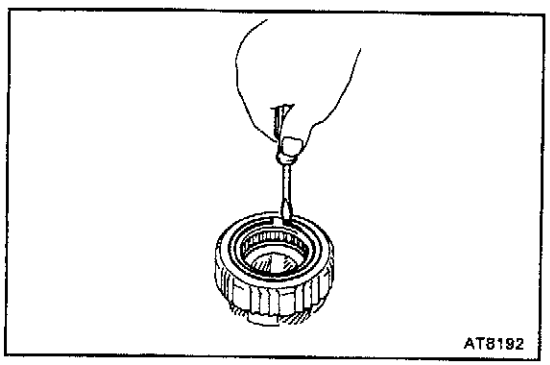
4. CHECK OPERATION OF NO.2 ONE–WAY CLUTCH

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.

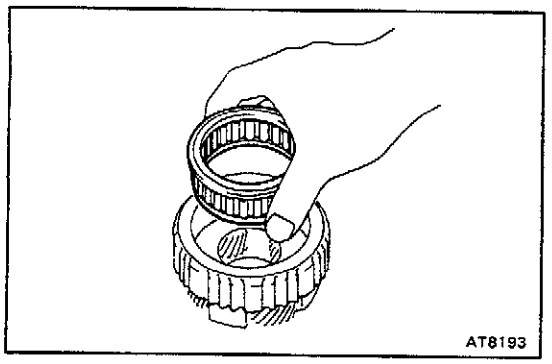


5. REMOVE NO.2 ONE–WAY CLUTCH

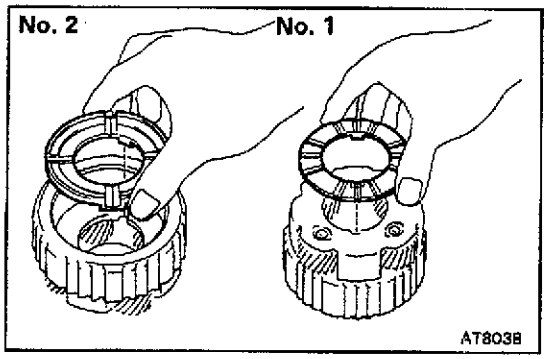
(a) Remove the one–way clutch inner race from the rear planetary gear.



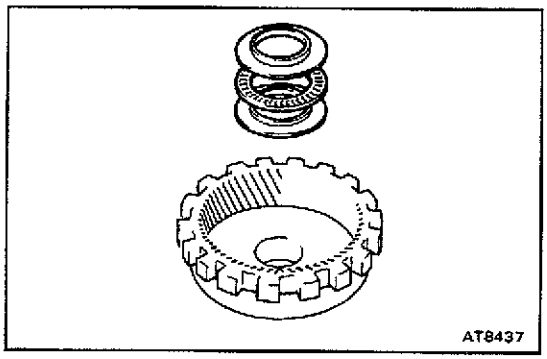
(b) Remove the snap ring with a screwdriver.



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

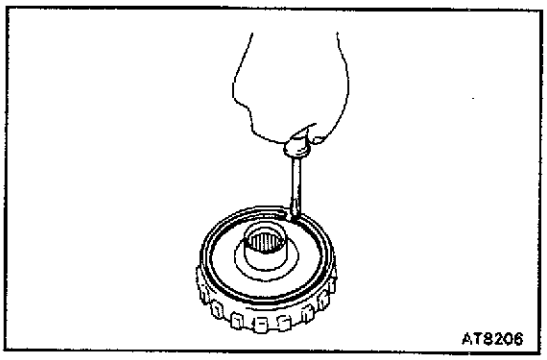


6. **REMOVE NO.2 AND NO.1 THRUST WASHERS**



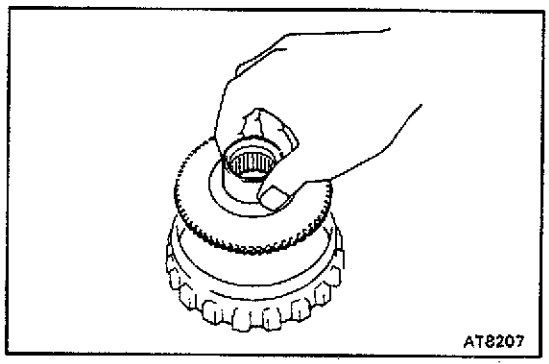
7. **REMOVE RACES AND BEARING FROM REAR PLANETARY RING GEAR**

AT

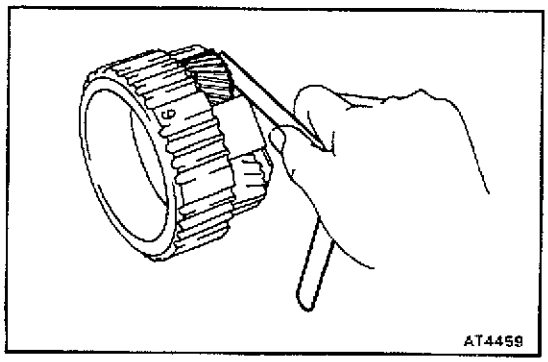


8. **REMOVE RING GEAR FLANGE**

(a) Remove the snap ring with a screwdriver.



(b) Remove the ring gear flange.



REAR PLANETARY GEAR INSPECTION AT067-03

MEASURE PLANETARY PINION GEAR THRUST CLEARANCE

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

Standard clearance:

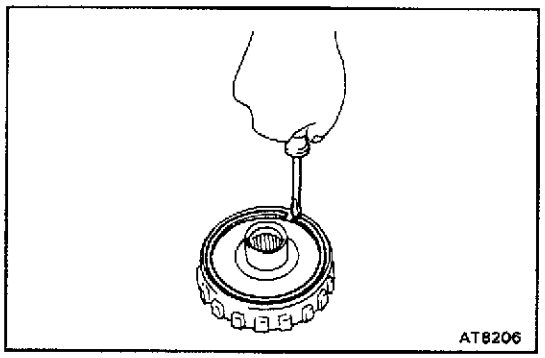
0.20–0.60 mm (0.0079–0.0236 in.)

Maximum clearance:

1.00 mm (0.0394 in.)

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

AT



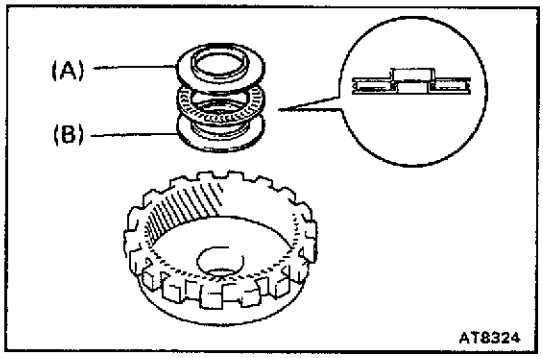
REAR PLANETARY GEAR, NO.2 ONE–WAY CLUTCH AND OUTPUT SHAFT ASSEMBLY

AT068–06

1. INSTALL RING GEAR FLANGE

(a) Install the ring gear flange.

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



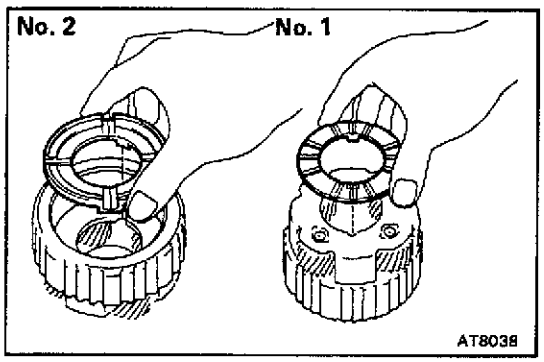
2. INSTALL RACES AND BEARING

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)

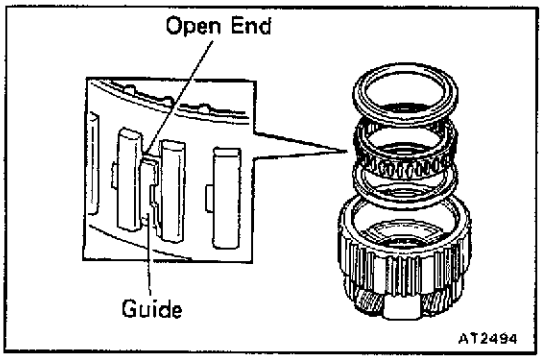


3. INSTALL NO.1 AND NO.2 THRUST WASHERS

(a) Coat the thrust washers with petroleum jelly.

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

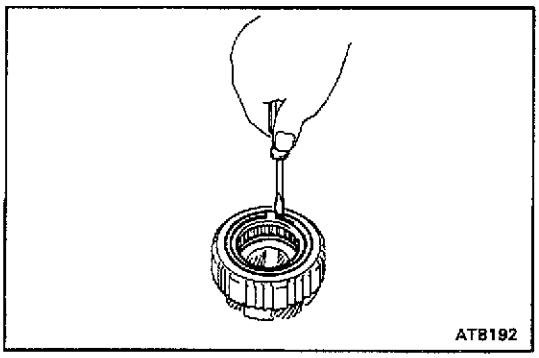
HINT: Make sure that the lug shapes match the cutout portions on the rear planetary gear.



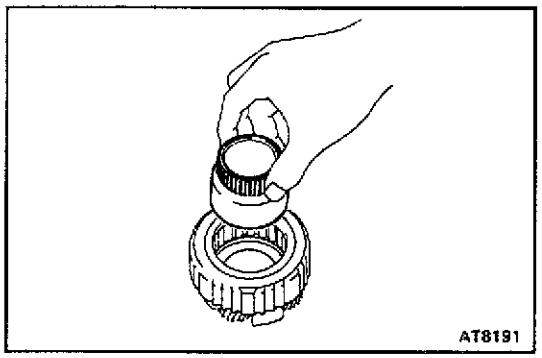
4. INSTALL NO.2 ONE–WAY CLUTCH

(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.

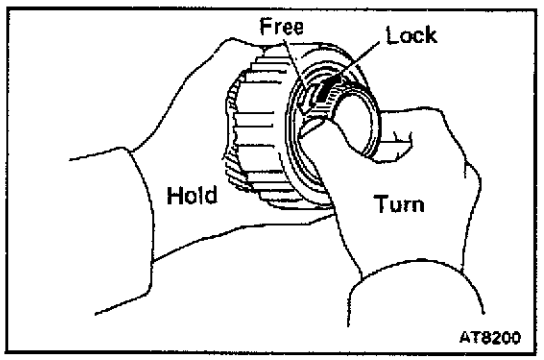


(b) Using a screwdriver, install the snap ring.



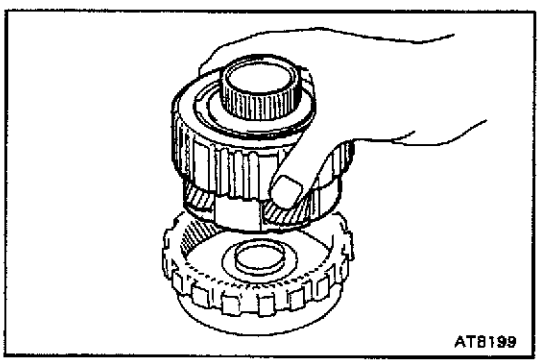
(c) While turning counterclockwise, install the one–way clutch inner race to rear planetary gear.

AT

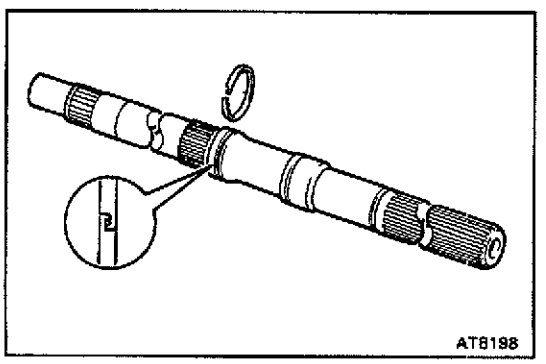


5. CHECK OPERARION OF NO.2 ONE–WAY CLUTCH

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

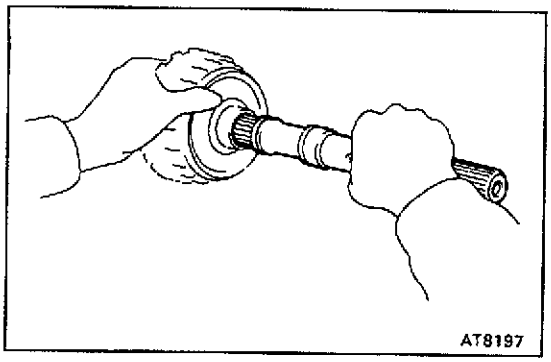


7. INSTALL OIL SEAL RING

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