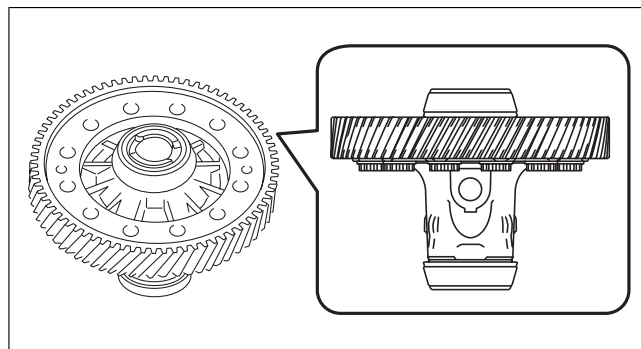


## RING GEAR AND DIFFERENTIAL INSPECTION [FW6A-EL]

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### Taper Roller Bearing Inspection

1. Place the ring gear and differential with the ring gear side pointing upward on a workbench.

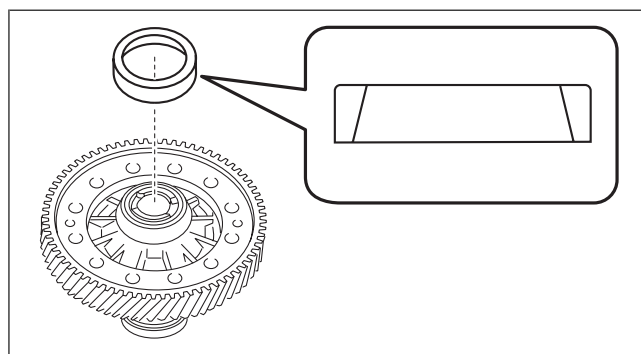


azzjw00001289

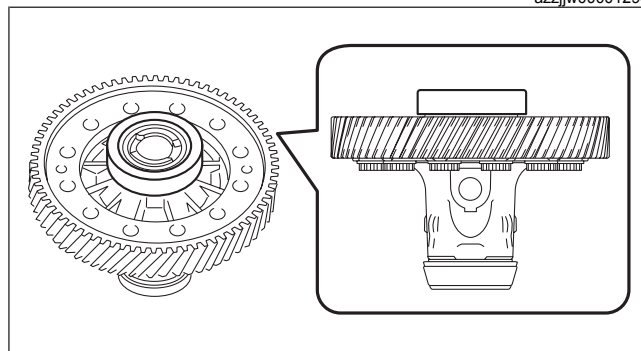
2. Assemble the bearing race to the ring gear and differential.

### Note

- Bearing race size: Outer diameter approx. 80 mm {3.1 in}

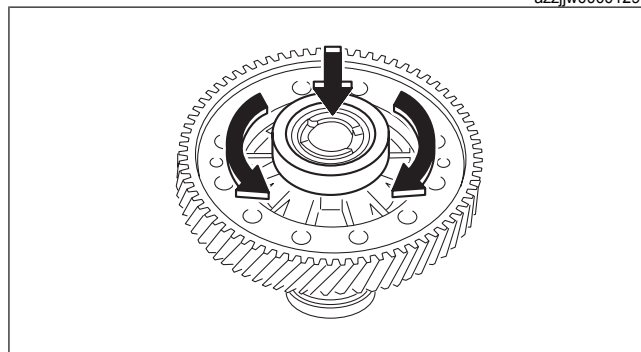


azzjw00001290



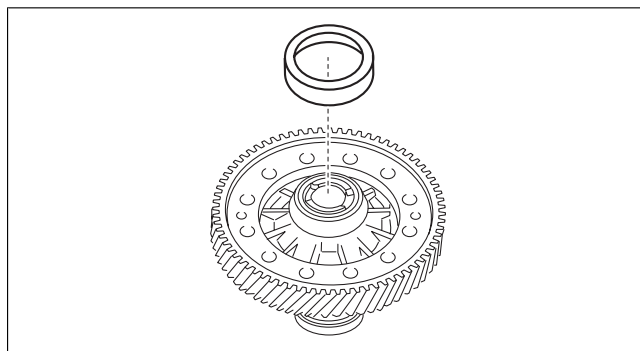
azzjw00001291

3. With a load applied by hand to the bearing race, rotate the bearing race and verify that there is no malfunction in the taper roller bearing (rotation sticking).
  - If there is a malfunction, disassemble the ring gear and differential and replace the taper roller bearing with a new one.  
(See RING GEAR AND DIFFERENTIAL DISASSEMBLY [FW6A-EL].)  
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6A-EL].)



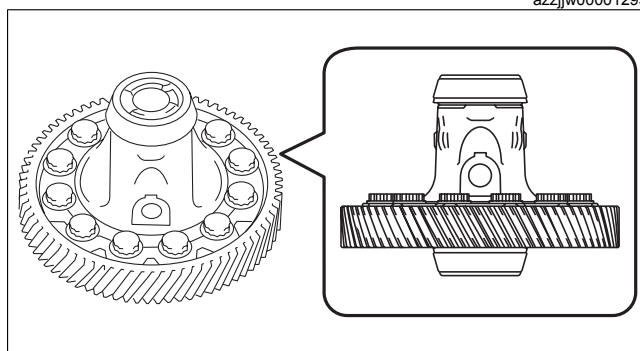
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4. Remove the bearing race.



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5. Place the ring gear and differential with the ring gear side pointing downward on a workbench.

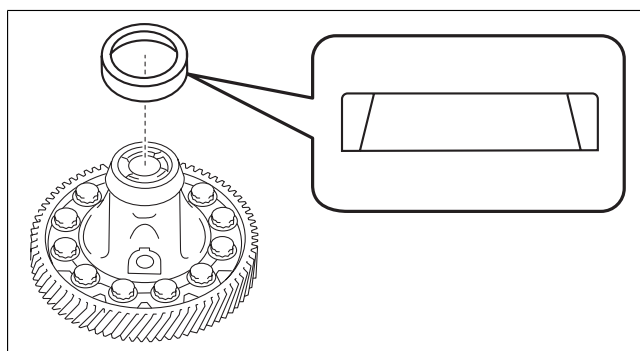


azzjiw00001294

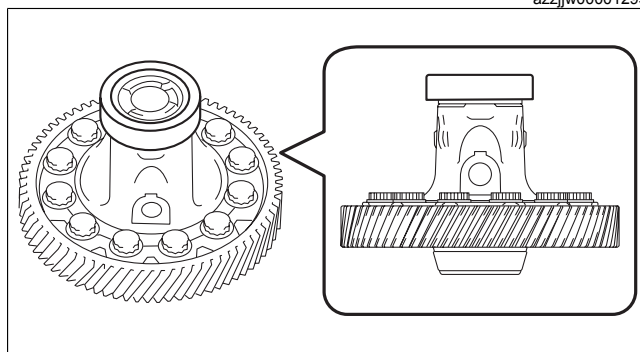
6. Assemble the bearing race to the ring gear and differential.

**Note**

- Bearing race size: Outer diameter approx. 80 mm {3.1 in}

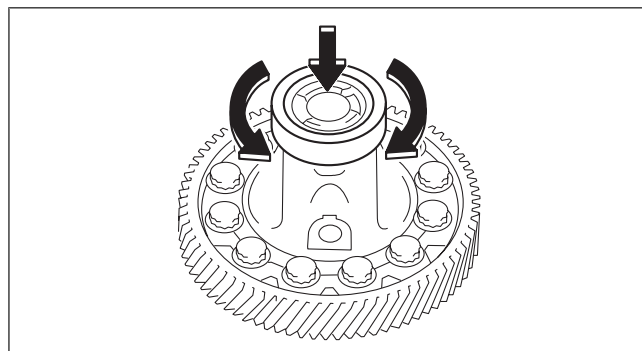


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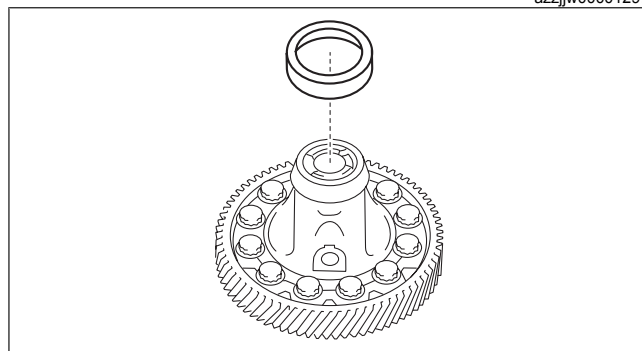
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7. With a load applied by hand to the bearing race, rotate the bearing race and verify that there is no malfunction in the taper roller bearing (rotation sticking).
- If there is a malfunction, disassemble the ring gear and differential and replace the taper roller bearing with a new one.  
(See RING GEAR AND DIFFERENTIAL DISASSEMBLY [FW6A-EL].)  
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6A-EL].)



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8. Remove the bearing race.



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### Differential Journal Inspection

1. Measure the inner diameter of the journal (front side) shown in the figure.

#### Note

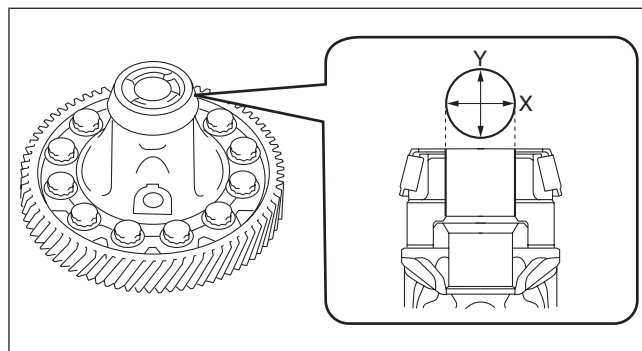
- When measuring, measure near the center of the journal avoiding the oil groove, and then calculate the average value of the X and Y directions as shown in the figure.
- Recommended measuring instrument: Cylinder gauge or caliper gauge
- The inner diameter of the journal (front side) differs depending on the vehicle model.

#### Maximum:

**Type A: 30.048 mm {1.1830 in}**

**Type B: 33.545 mm {1.3207 in}**

- If it is more than the maximum specification, disassemble the ring gear and differential and replace the differential gear case with a new one.  
(See RING GEAR AND DIFFERENTIAL DISASSEMBLY [FW6A-EL].)  
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6A-EL].)



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2. Measure the inner diameter of the journal (rear side) shown in the figure.

#### Note

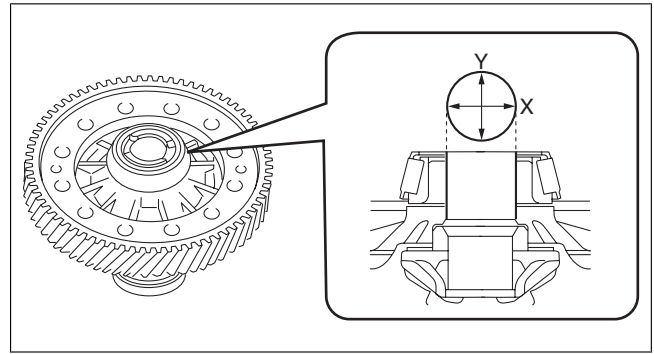
- When measuring, measure near the center of the journal avoiding the oil groove, and then calculate the average value of the X and Y directions as shown in the figure.
- Recommended measuring instrument: Cylinder gauge or caliper gauge
- The inner diameter of the journal (rear side) differs depending on the vehicle model.

**Maximum:**

**Type A: 30.048 mm {1.1830 in}**

**Type B: 33.545 mm {1.3207 in}**

- If it is more than the maximum specification, disassemble the ring gear and differential and replace the differential gear case with a new one.  
(See RING GEAR AND DIFFERENTIAL DISASSEMBLY [FW6A-EL].)  
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6A-EL].)



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**Differential Backlash Inspection**

1. Perform the following the inspection and measurement/adjustment in the order and replace a malfunctioning part with a new one.
  - (1) Drive shaft journal inspection (See DRIVE SHAFT JOURNAL INSPECTION.)
  - (2) Differential backlash measurement/adjustment (See DIFFERENTIAL BACKLASH MEASUREMENT/ADJUSTMENT.)