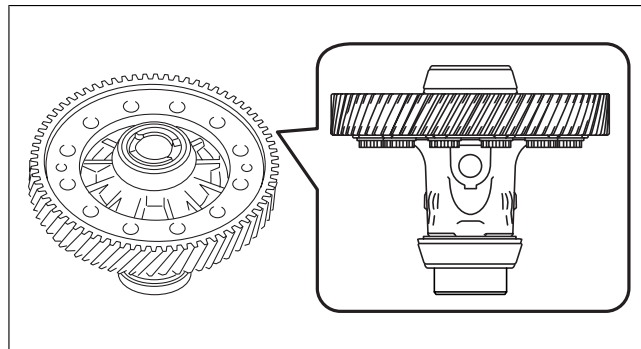


RING GEAR AND DIFFERENTIAL INSPECTION [FW6AX-EL]

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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.

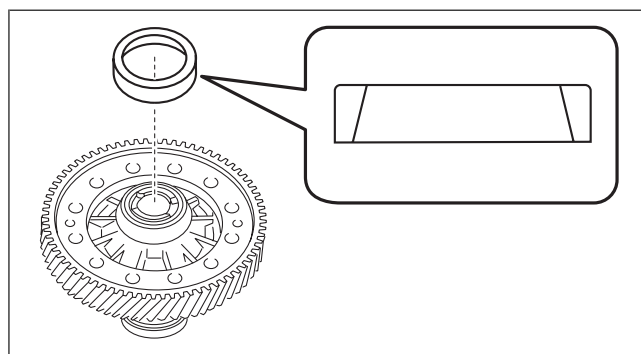


bfw3ja00000027

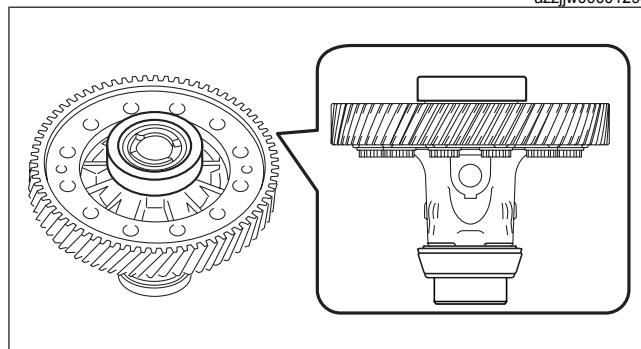
2. Assemble the bearing race to the ring gear and differential.

Note

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

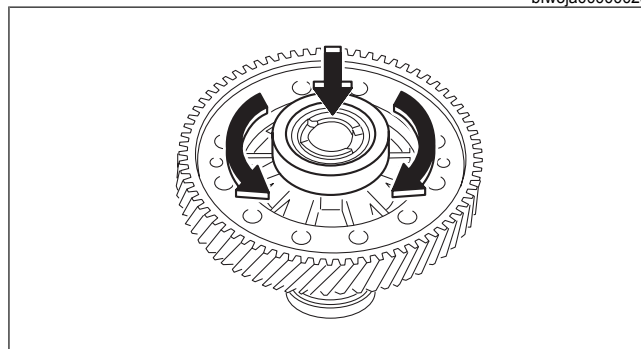


azzjw00001290



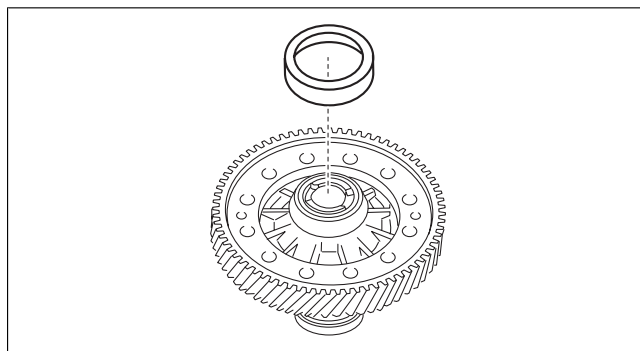
bfw3ja00000028

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 [FW6AX-EL].)
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6AX-EL].)



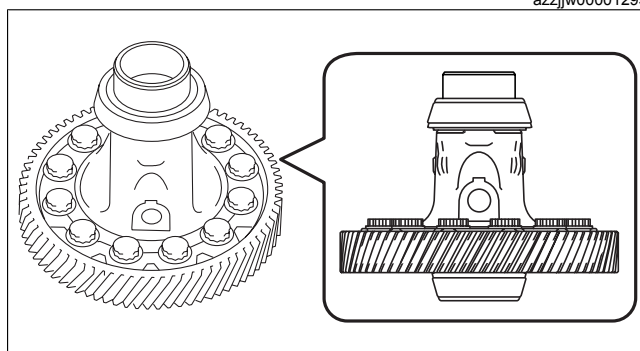
azzjw00001292

4. Remove the bearing race.



azzjw00001293

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

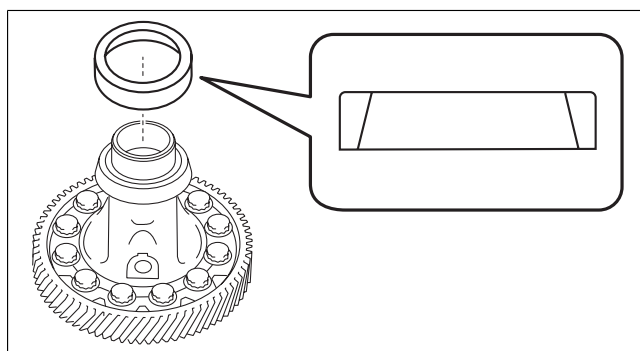


bfw3ja00000029

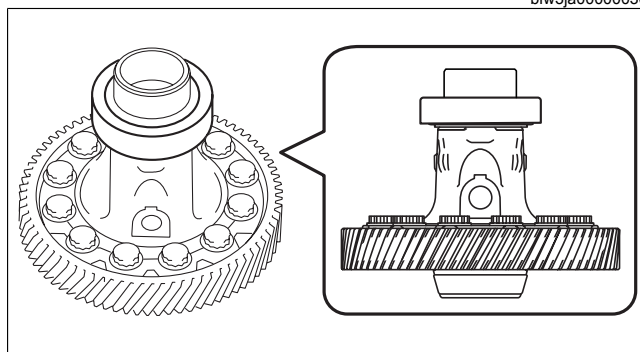
6. Assemble the bearing race to the ring gear and differential.

Note

- Bearing race size: Outer diameter approx. 90 mm {3.5 in}

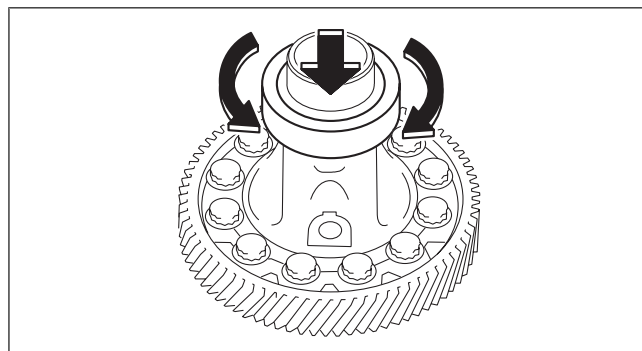


bfw3ja00000030



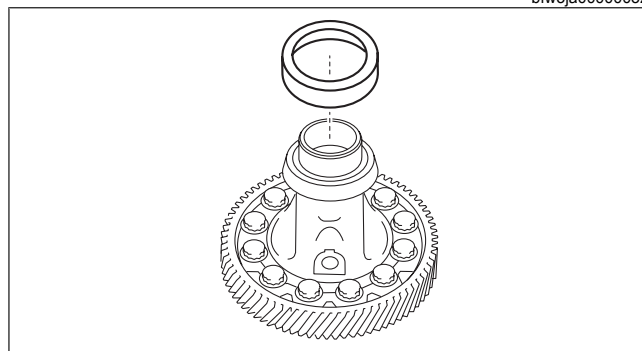
bfw3ja00000031

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 [FW6AX-EL].)
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6AX-EL].)



bfw3ja00000032

8. Remove the bearing race.



bfw3ja00000033

Differential Journal Inspection

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

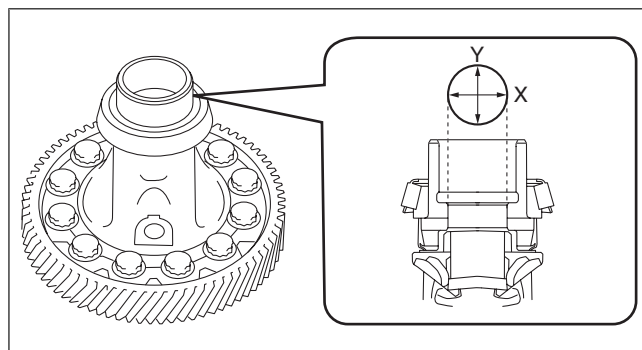
Note

- 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

Maximum:

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 [FW6AX-EL].)
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6AX-EL].)



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

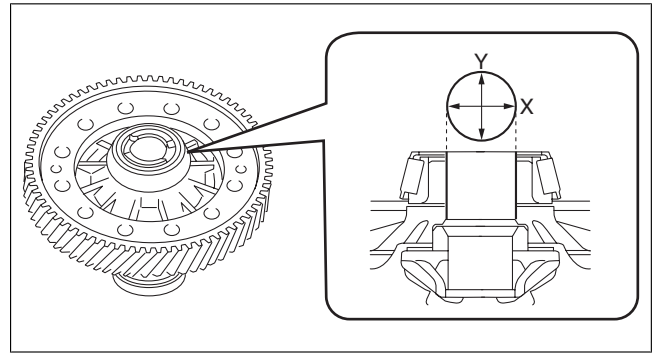
Note

- 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

Maximum:

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 [FW6AX-EL].)
(See RING GEAR AND DIFFERENTIAL ASSEMBLY [FW6AX-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.)