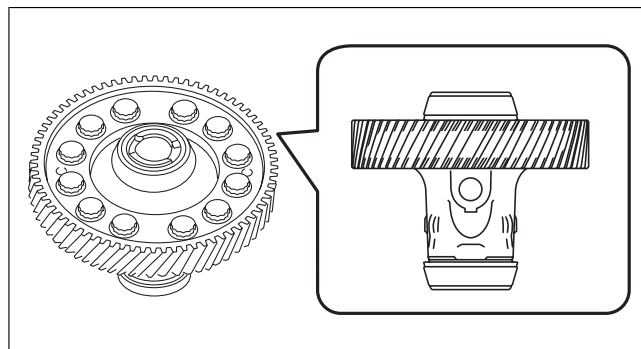


RING GEAR AND DIFFERENTIAL INSPECTION

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Tapered Roller Bearing Inspection

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

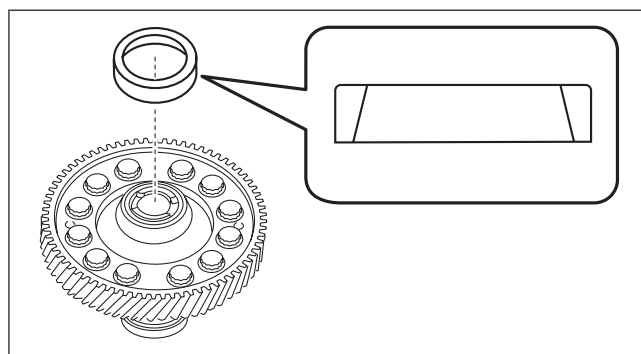


bgw3ja00000275

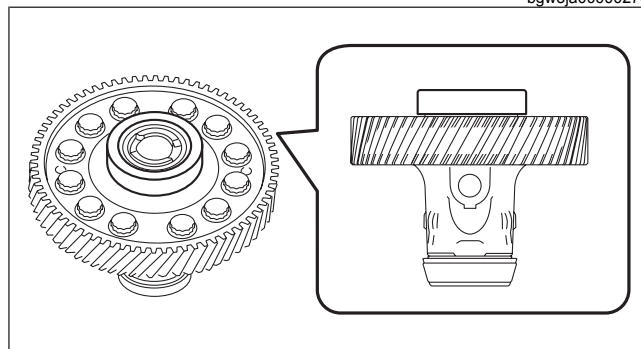
2. Assemble the bearing race to the ring gear and differential.

Note

- Bearing race size: Outer diameter approx. 90 mm {3.5 in}, width approx. 17.25 mm {0.6791 in}

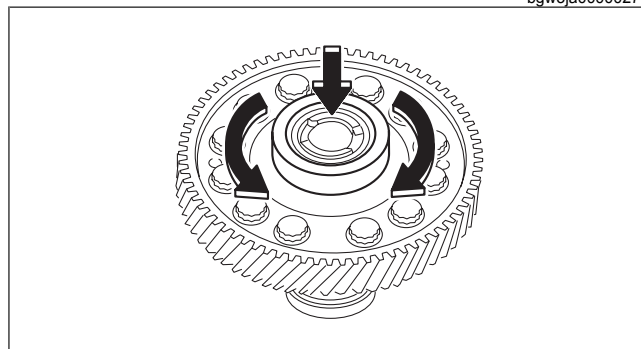


bgw3ja00000276



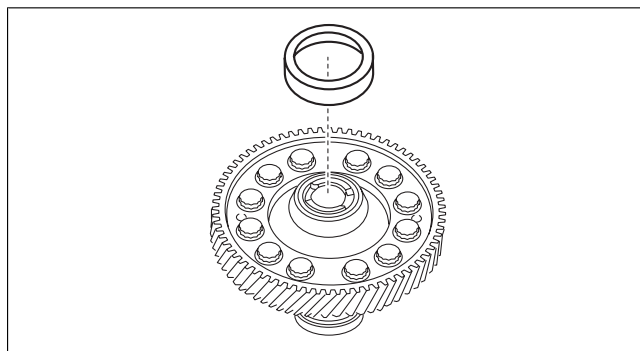
bgw3ja00000277

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



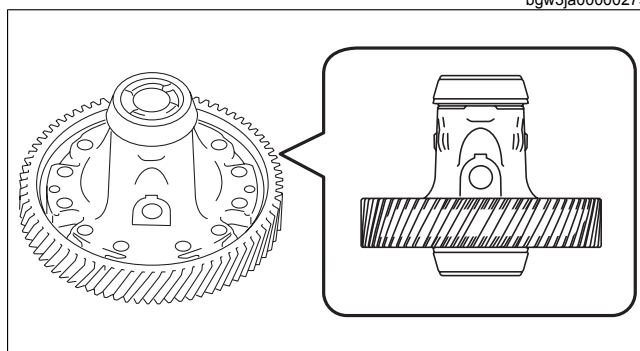
bgw3ja00000278

4. Remove the bearing race.



bgw3ja00000279

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

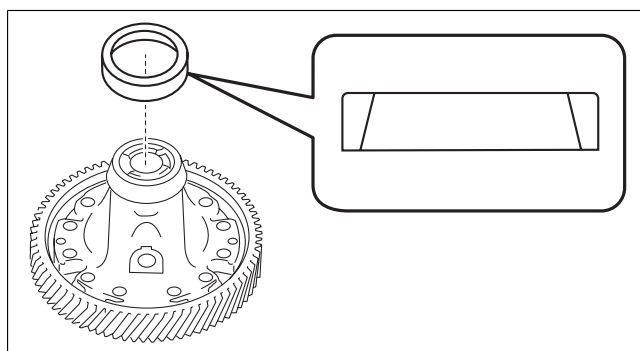


bgw3ja00000280

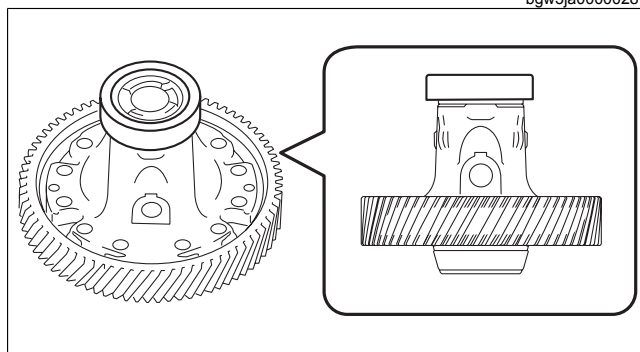
6. Assemble the bearing race to the ring gear and differential.

Note

- Bearing race size: Outer diameter approx. 90 mm {3.5 in}, width approx. 21 mm {0.83 in}



bgw3ja00000281

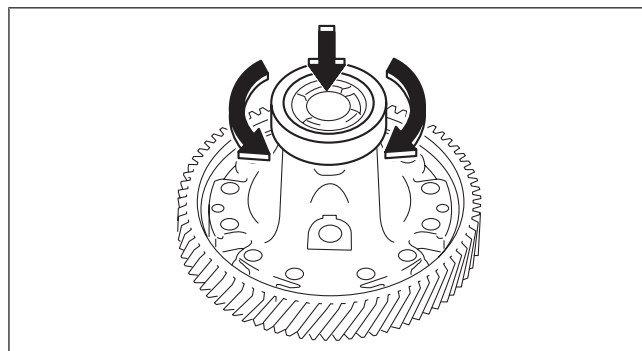


bgw3ja00000282

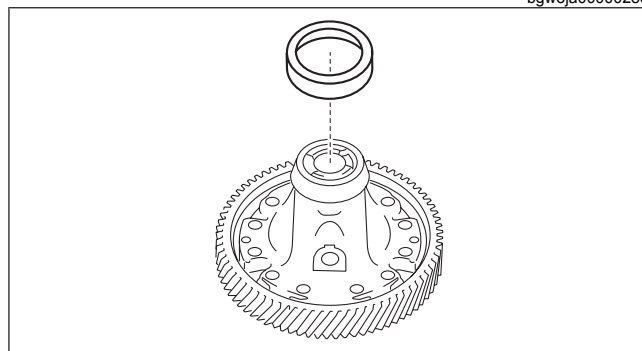
7. With a load applied by hand to the bearing race, rotate the bearing race and verify that there is no malfunction in the tapered roller bearing (rotation sticking).

- If there is a malfunction, disassemble the ring gear and differential and replace the tapered roller bearing with a new one.
(See RING GEAR AND DIFFERENTIAL DISASSEMBLY.)
(See RING GEAR AND DIFFERENTIAL ASSEMBLY.)

8. Remove the bearing race.



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bgw3ja00000284

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

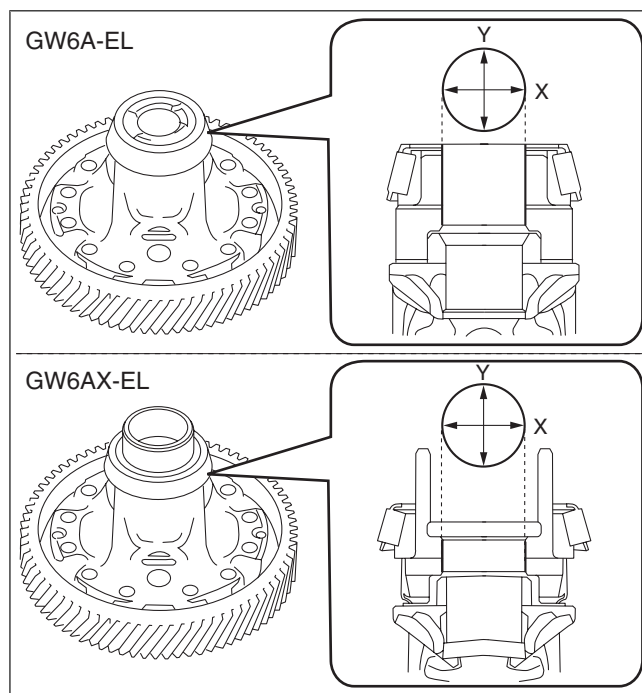
Maximum:

33.546 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.)

(See RING GEAR AND DIFFERENTIAL ASSEMBLY.)



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

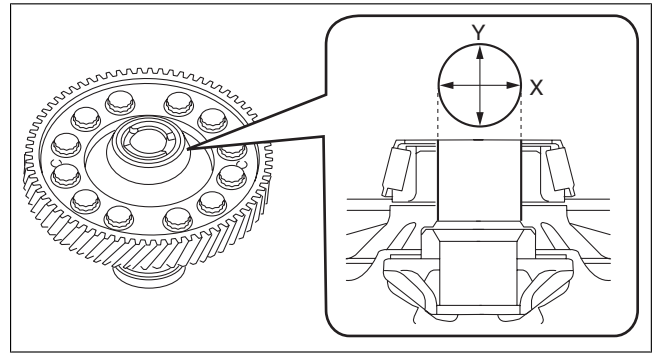
Note

- 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:

33.546 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.)
(See RING GEAR AND DIFFERENTIAL ASSEMBLY.)



bgw3ja00000286

Differential Backlash Inspection

1. Perform the following the inspection and measurement/adjustment in the indicated 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.)