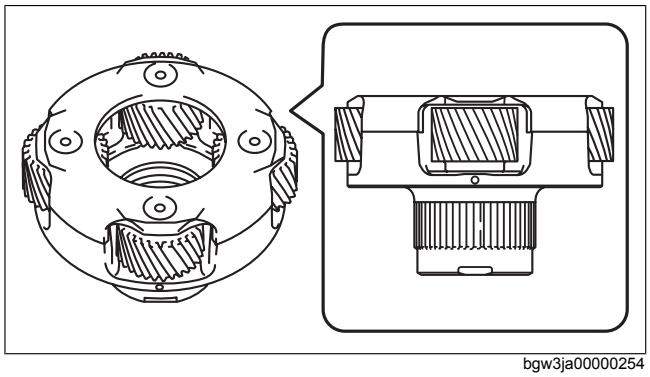
FRONT PLANETARY GEAR INSPECTION

id051700662000

Radial Needle Bearing Inspection (in Pinion Gear)

1. Place the front planetary gear on a workbench as shown in the figure.



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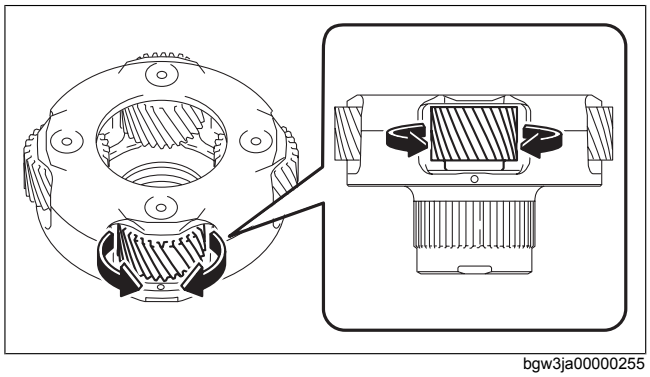
2. Rotate the pinion gears by hand and verify that there is no malfunction in the radial needle bearing in the pinion gear (rotation sticking).

Caution
- **Verify all of the pinion gears.**

- If there is a malfunction, replace the front planetary gear with a new one.



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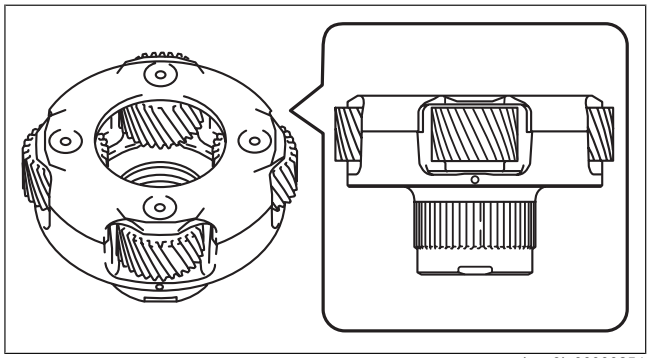
Thrust Needle Bearing Inspection

1. Place the front planetary gear on a workbench as shown in the figure.



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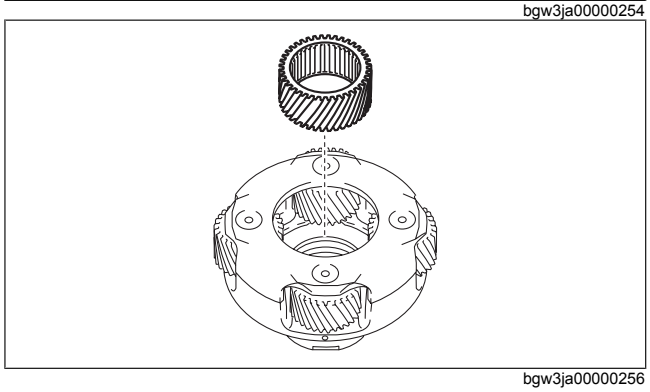
2. Assemble the front sun gear to the front planetary gear.



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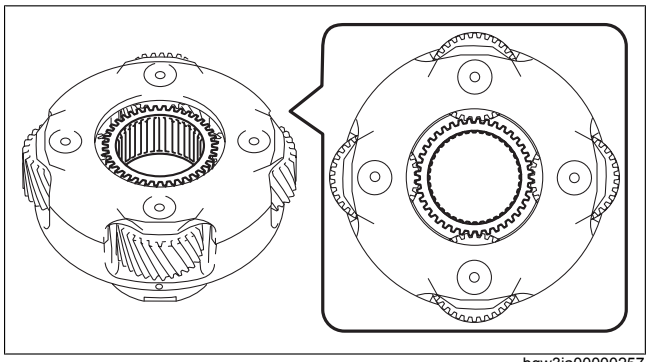
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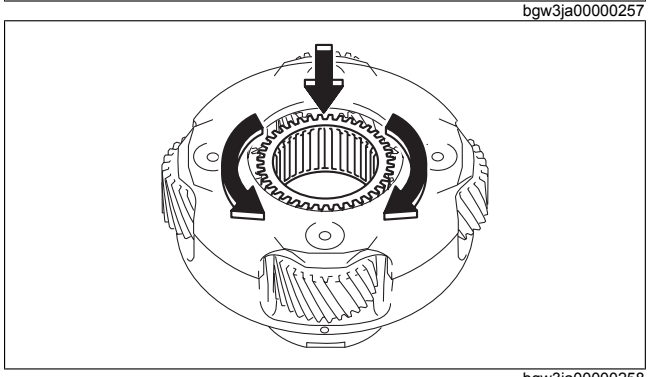
3. With a load applied by hand to the front sun gear, rotate the front sun gear and verify that there is no malfunction in the thrust needle bearing (rotation sticking).
   - If there is a malfunction, replace the front planetary gear with a new one.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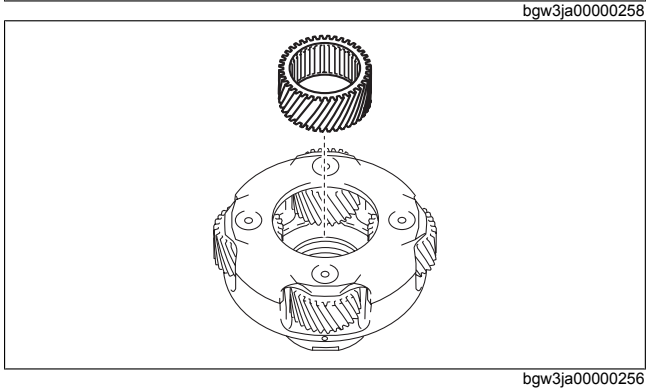
4. Remove the front sun gear.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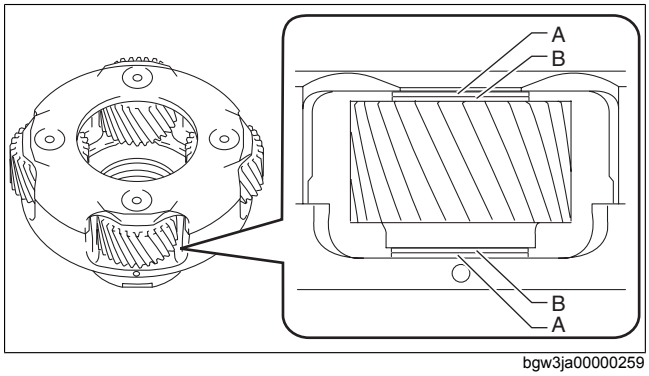
Pinion Washer Inspection
Pinion washer visual inspection

1. Visually verify that all of the following washers are between the pinion gear and planetary carrier for one pinion gear.

   Caution
   - **Verify all of the pinion gears.**

   — Copper washer (outer side): 2
   — Iron washer (inner side): 2

A : Copper washer (outer side)
B : Iron washer (inner side)



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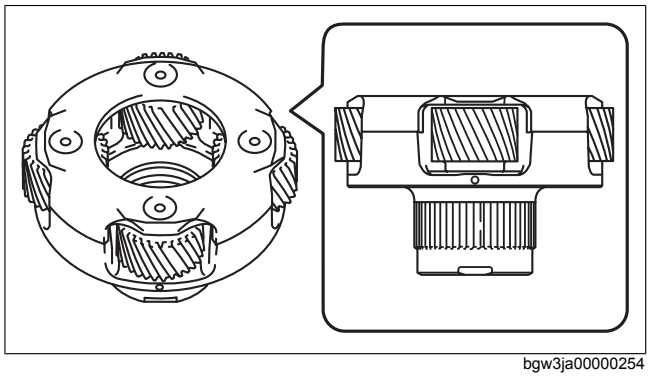
   - Even if one of the washers is damaged, replace the front planetary gear with a new one.

Pinion washer wear inspection

1. Place the front planetary gear on a workbench as shown in the figure.



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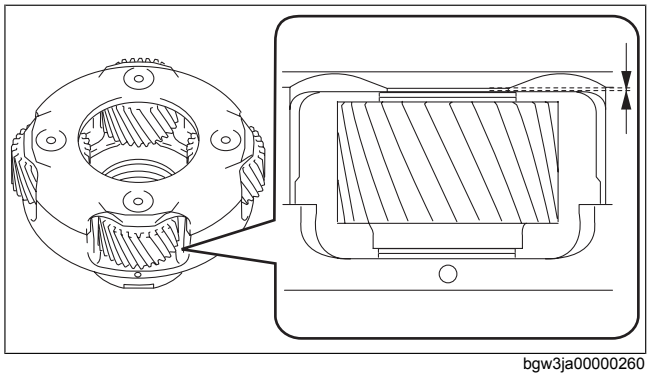
2. Measure the gap between the pinion washer and planetary carrier.

Caution
- **Measure all of the pinion gears.**

Note
- Recommended measuring instrument: Thickness gauge

Maximum:
0.879 mm {0.0346 in}

- If it is more than the maximum specification, replace the front planetary gear with a new one.



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