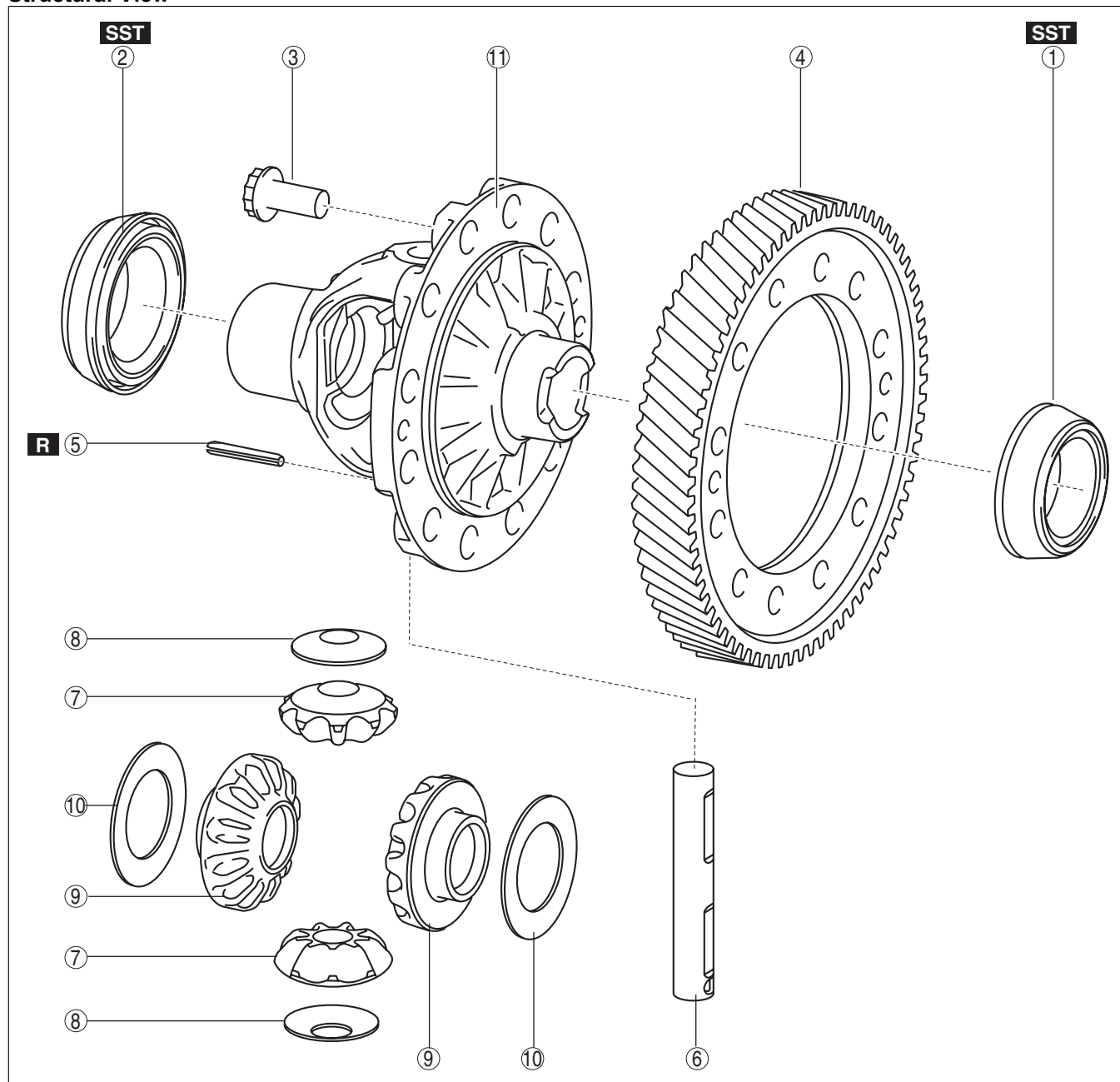


RING GEAR AND DIFFERENTIAL DISASSEMBLY [FW6AX-EL]

id0517006611h4

Structural View



bfw3ja00000015

1	Taper roller bearing (transaxle case side)
2	Taper roller bearing (converter housing side)
3	12 bolts
4	Ring gear
5	Roll pin
6	Pinion shaft

7	Pinion gear
8	Thrust washer
9	Side gear
10	Thrust washer
11	Differential gear case

Disassembly Procedure

1. Perform the following inspection:

Caution

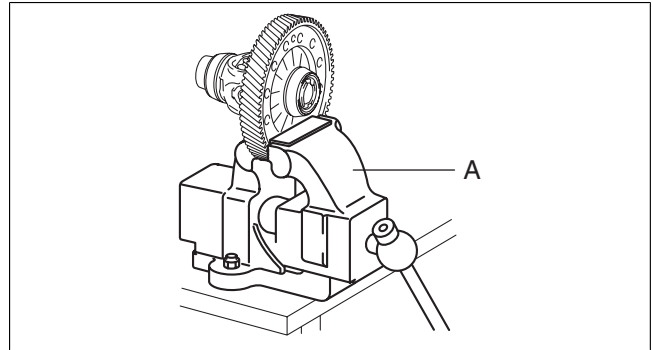
- If there is no malfunction based on the results of the inspection, it not necessary to disassemble the ring gear and differential.
- Visual inspection of parts (See VISUAL INSPECTION OF PARTS [FW6AX-EL])
- Ring gear and differential inspection (See RING GEAR AND DIFFERENTIAL INSPECTION [FW6AX-EL])

- If there is a malfunction, disassemble the ring gear and differential and replace the malfunctioning part with a new part.
2. Remove the taper roller bearing (transaxle case side) using the following procedure:
- (1) Secure the ring gear and differential in a vise.

Caution

- Insert a protective plate between the vise and the part so as not to damage the part.

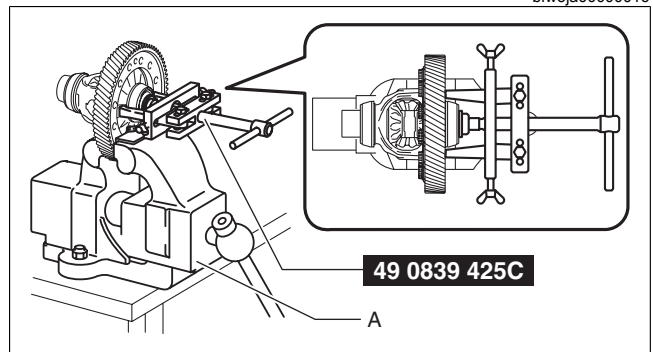
A : Vise



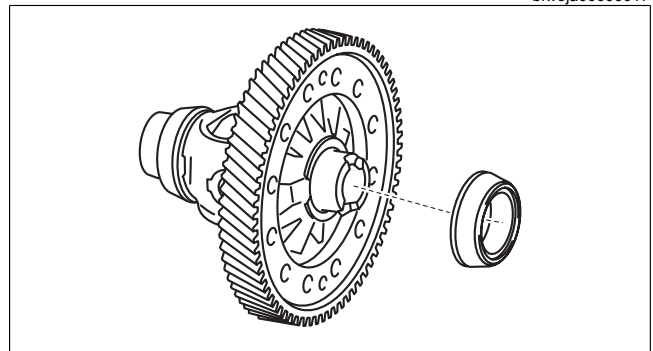
bfw3ja00000016

- (2) Remove the taper roller bearing (transaxle case side) using the SST.

A : Vise



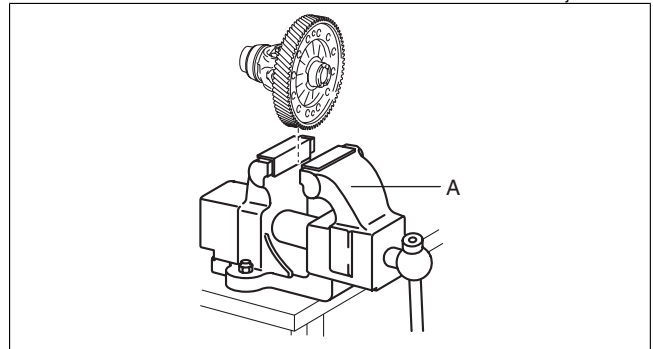
bfw3ja00000017



bfw3ja00000018

- (3) Remove the ring gear and differential from the vise.

A : Vise



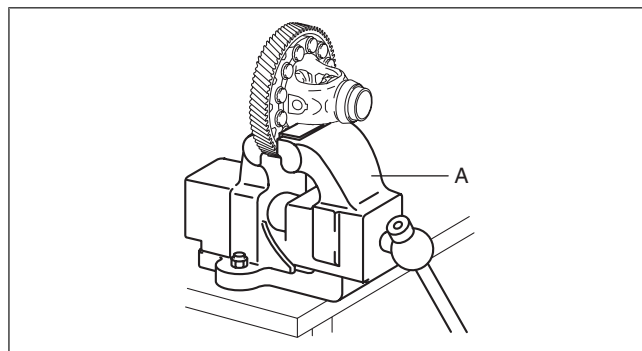
bfw3ja00000019

3. Remove the taper roller bearing (converter housing side) using the following procedure:
- (1) Secure the ring gear and differential in a vise.

Caution

- Insert a protective plate between the vise and the part so as not to damage the part.

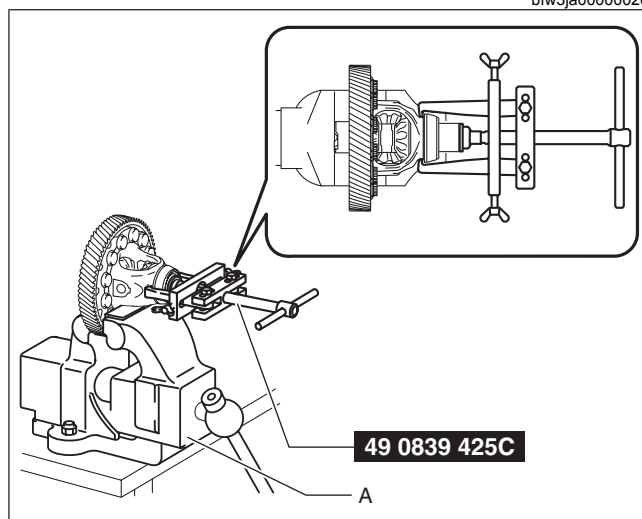
A : Vise



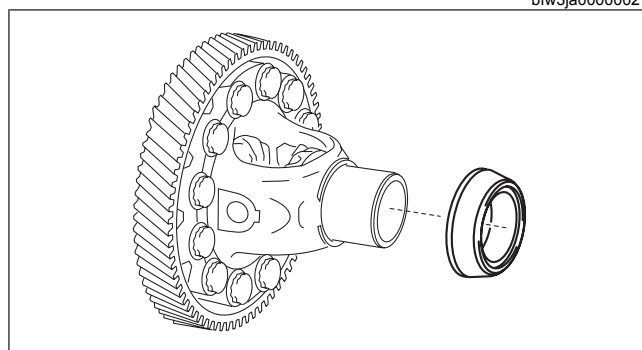
bfw3ja00000020

- (2) Remove the taper roller bearing (converter housing side) using the SST.

A : Vise



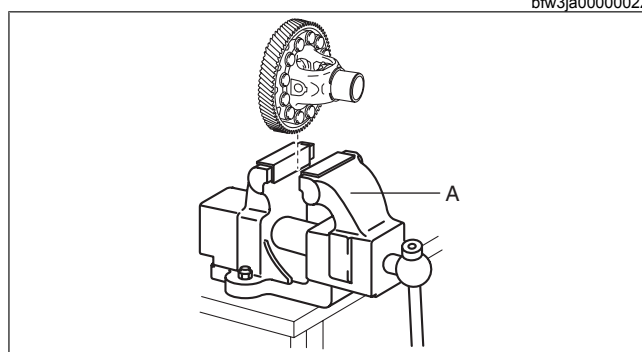
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bfw3ja00000022

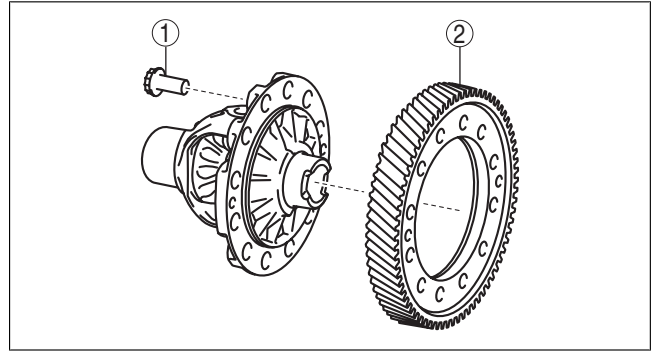
- (3) Remove the ring gear and differential from the vise.

A : Vise



bfw3ja00000023

4. Remove the ring gear using the following procedure:



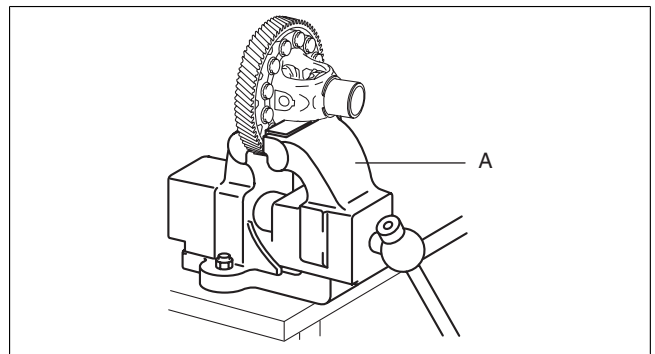
bfw3ja00000024

(1) Secure the ring gear and differential in a vise.

Caution

- Insert a protective plate between the vise and the part so as not to damage the part.

A : Vise



bfw3ja00000025

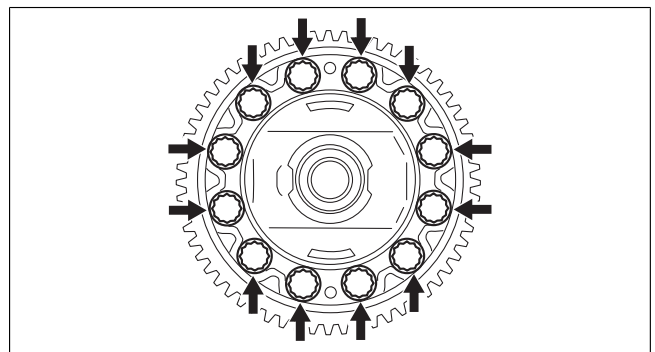
(2) Loosen the bolts shown in the figure.

Caution

- Only loosen the bolts, do not remove them, otherwise the ring gear and differential will fall off.

Note

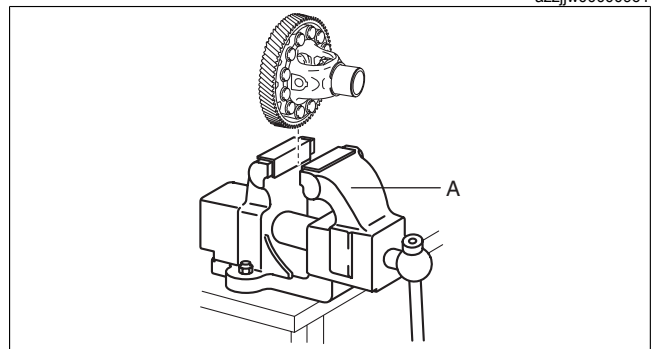
- Change the securing position of the ring gear and differential with the vise and loosen all of the bolts shown in the figure.



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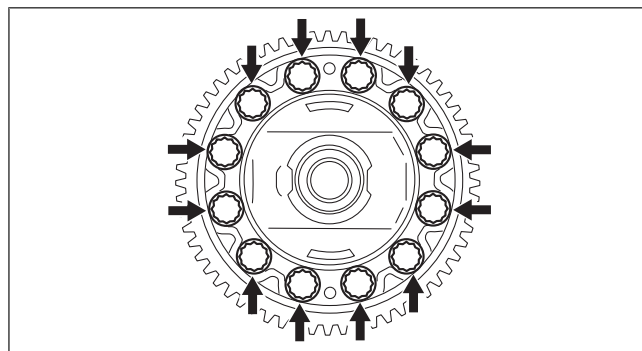
(3) Remove the ring gear and differential from the vise.

A : Vise



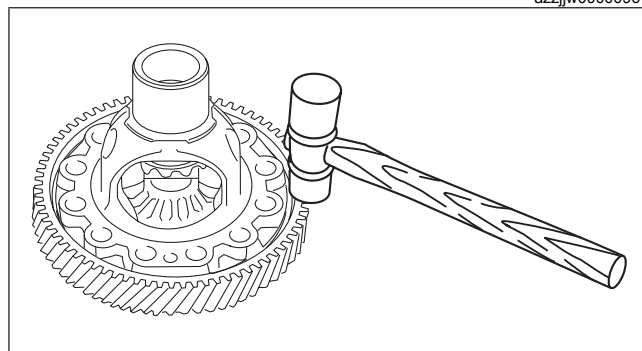
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(4) Remove the bolts shown in the figure.



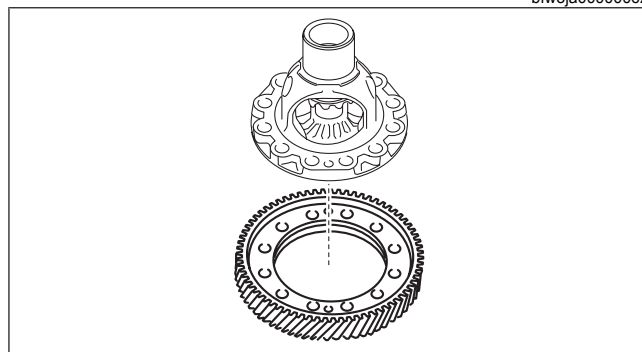
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(5) Lightly tap the ring gear with a plastic hammer and remove the ring gear.



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1	12 bolts
2	Ring gear

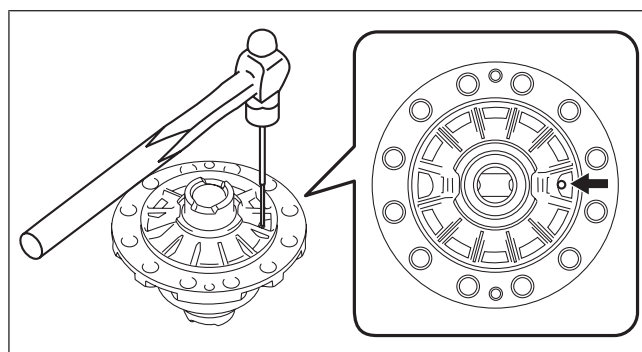


bfw3ja00000063

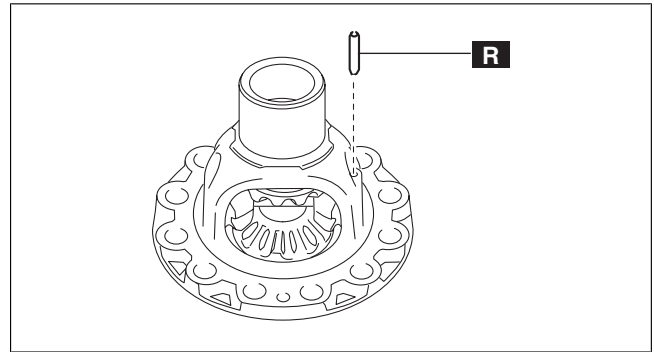
5. Remove the roll pin shown in the figure using a pin punch.

Note

- Use a pin punch with an end outer diameter of 3 mm {0.119 in} or more, and within 4 mm {0.157 in}, and an end length of 50 mm {2.0 in} or more.

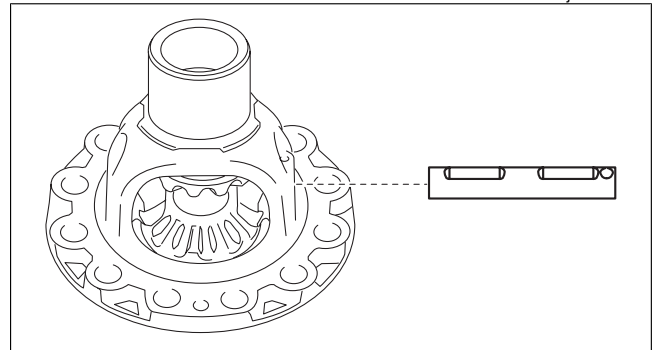


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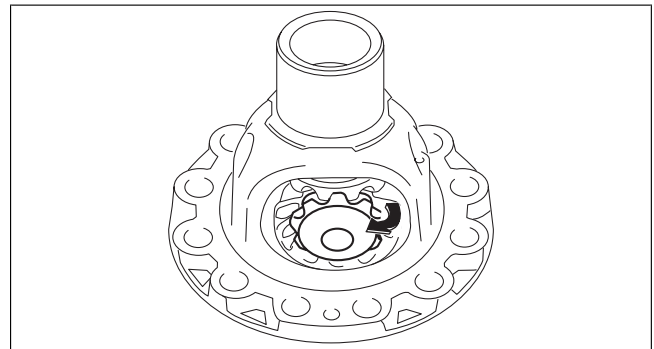
bfw3ja00000064

6. Remove the pinion shaft.



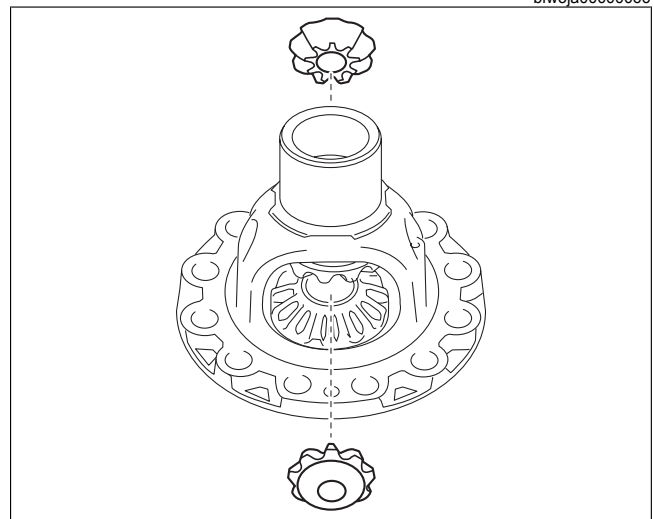
bfw3ja00000065

7. Remove the pinion gears using the following procedure:
(1) Rotate the pinion gears as shown in the figure.



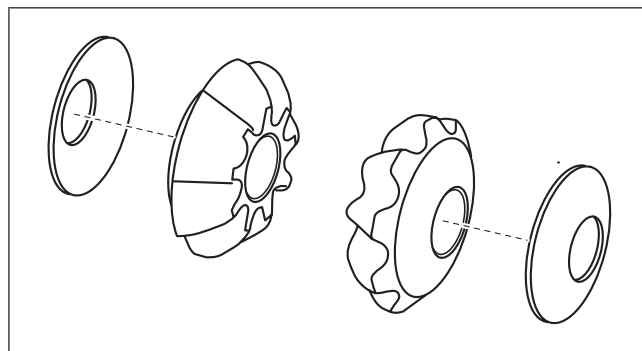
bfw3ja00000066

(2) Remove the pinion gears.



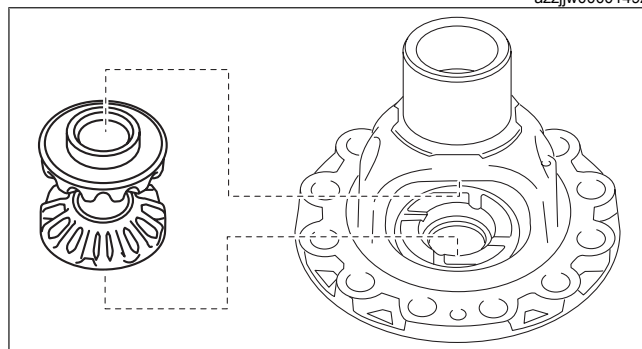
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8. Remove the thrust washers from the pinion gears.



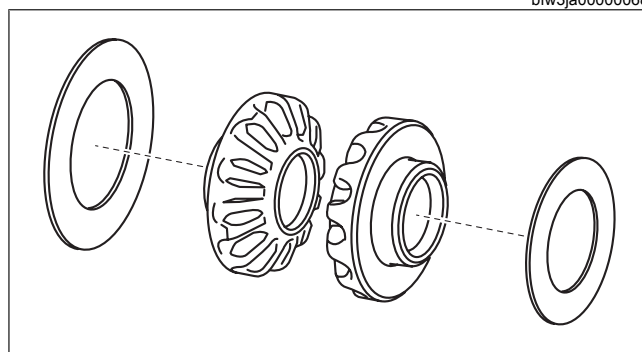
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9. Remove the side gears.



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10. Remove the thrust washers from the side gears.
11. Clean the disassembled parts. (See AUTOMATIC TRANSAXLE CLEANING.)



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