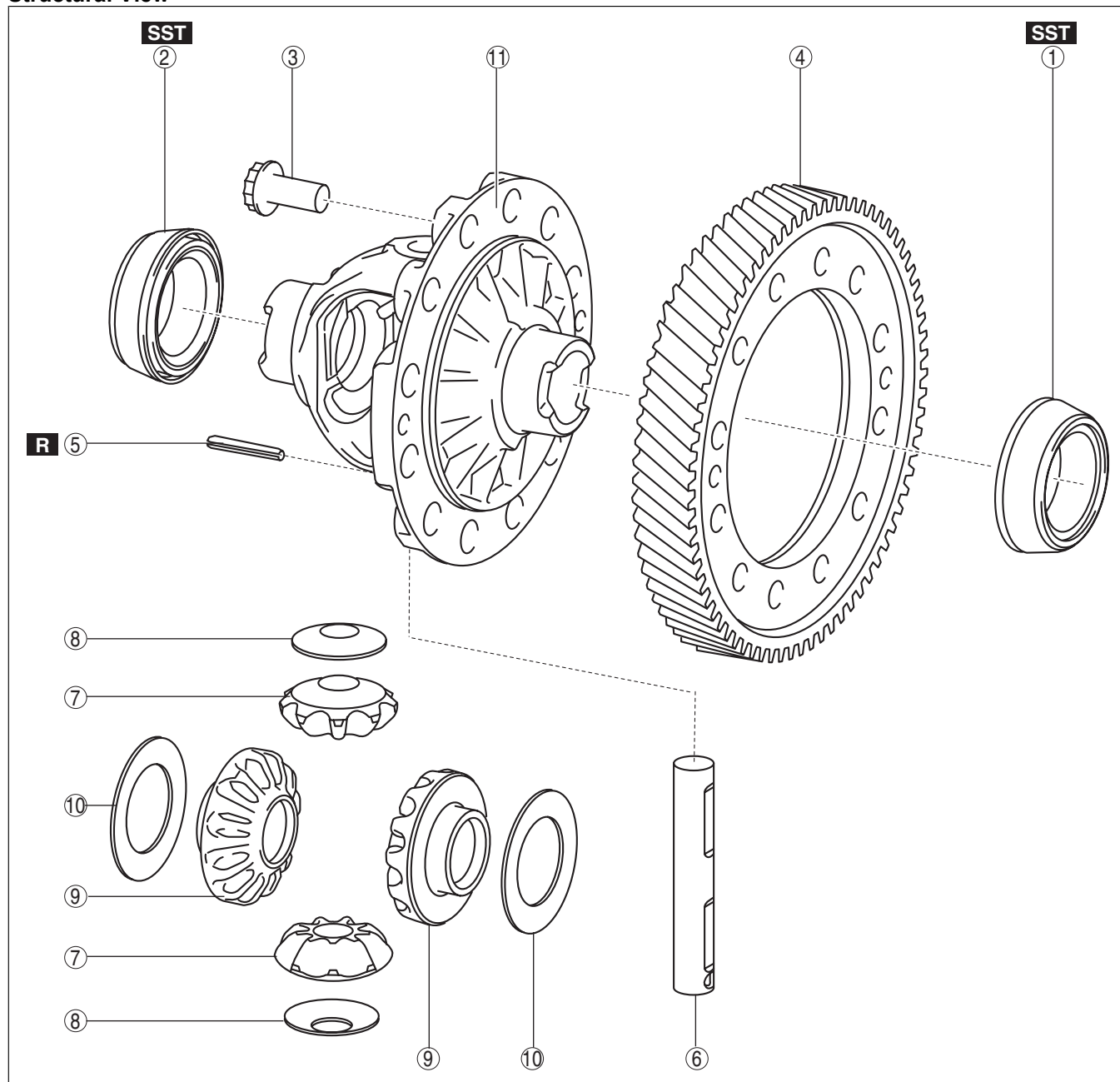


## RING GEAR AND DIFFERENTIAL DISASSEMBLY [FW6A-EL]

id0517006611h1

### Structural View



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|   |   |
|---|---|
| 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

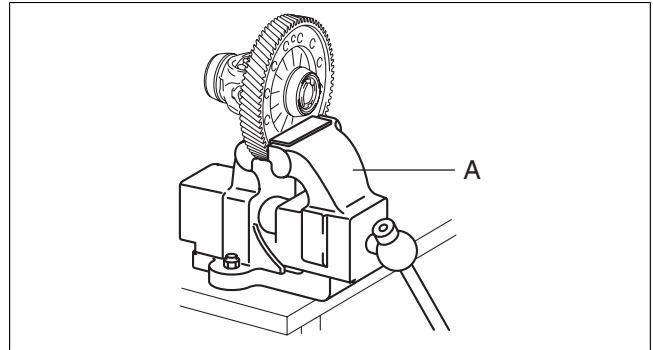
- If there is no malfunction based on the results of the inspection, it not necessary to disassemble the ring gear and differential.
- Visual inspection of parts (See VISUAL INSPECTION OF PARTS [FW6A-EL])
- Ring gear and differential inspection (See RING GEAR AND DIFFERENTIAL INSPECTION [FW6A-EL])

- 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.

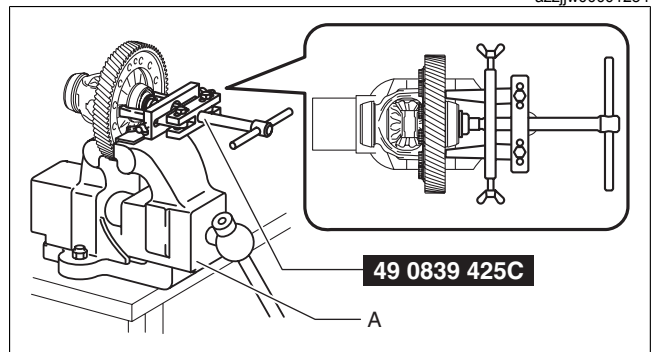
A : Vise



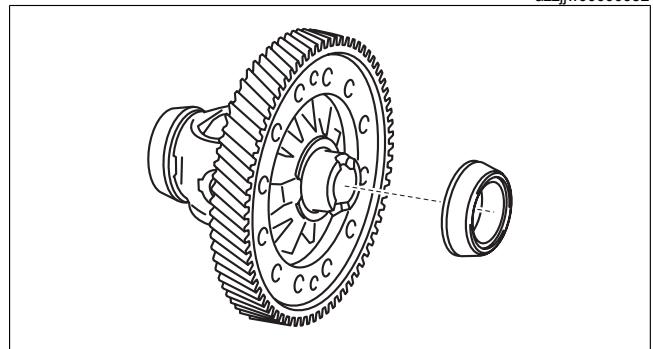
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- (2) Remove the taper roller bearing (transaxle case side) using the SST.

A : Vise



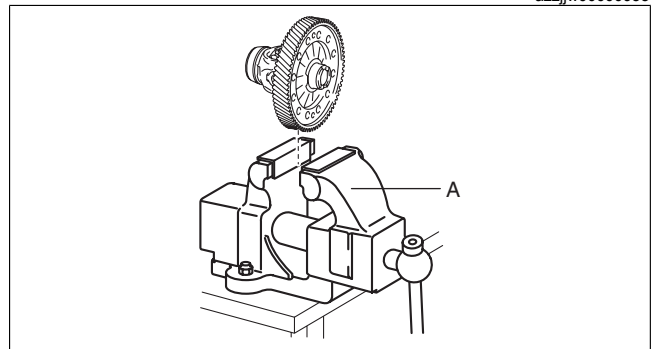
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azzijw00000953

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

A : Vise



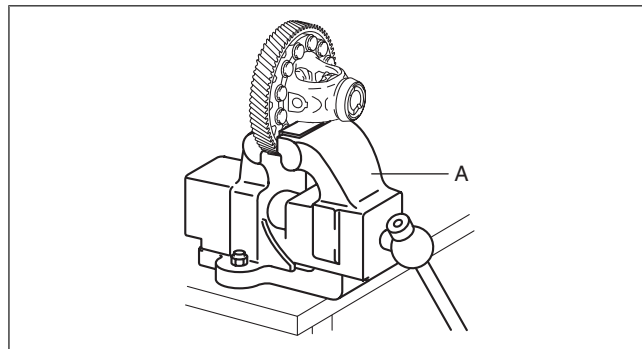
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3. Remove the taper roller bearing (converter housing side) using the following procedure:
- (1) Secure the ring gear and differential in a vise.

**Caution**

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

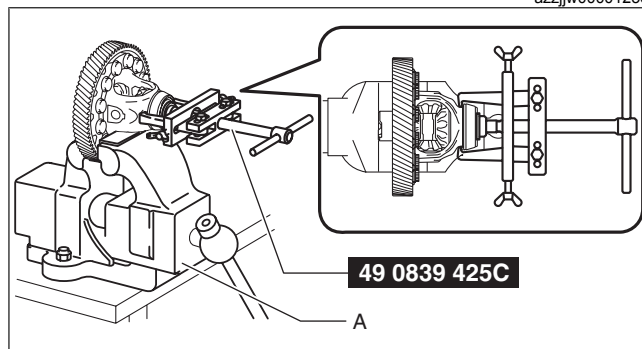
A : Vise



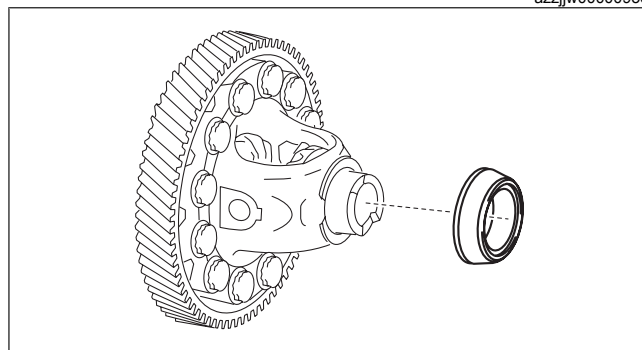
azzjjw00001256

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

A : Vise



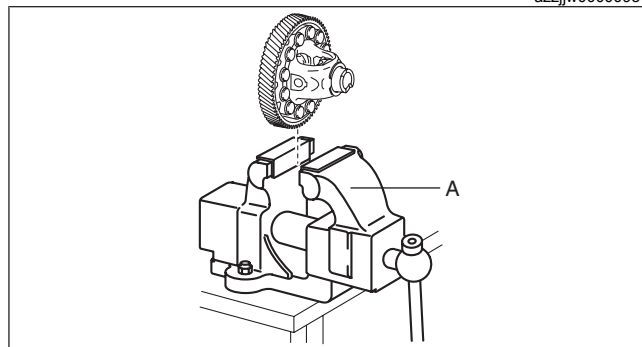
azzjjw00000956



azzjjw00000957

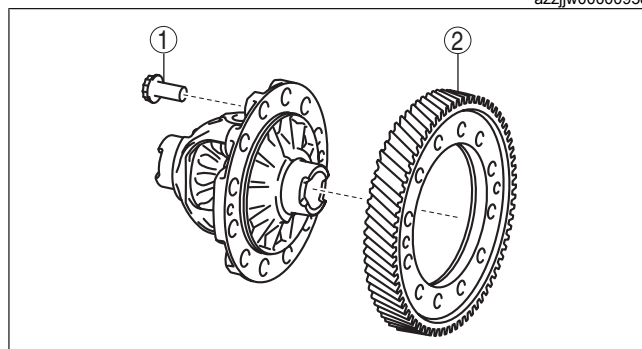
- (3) Remove the ring gear and differential from the vise.

A : Vise



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4. Remove the ring gear using the following procedure:



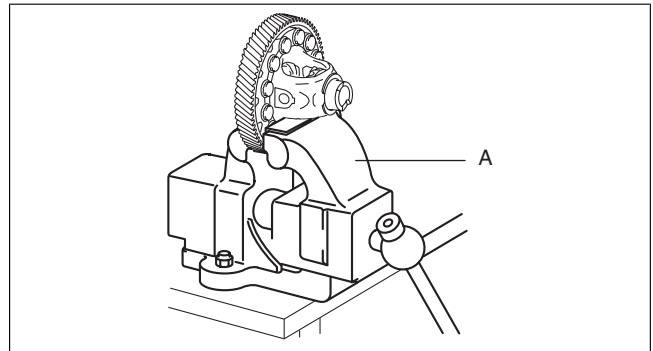
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- (1) Secure the ring gear and differential in a vise.

### Caution

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

A : Vise



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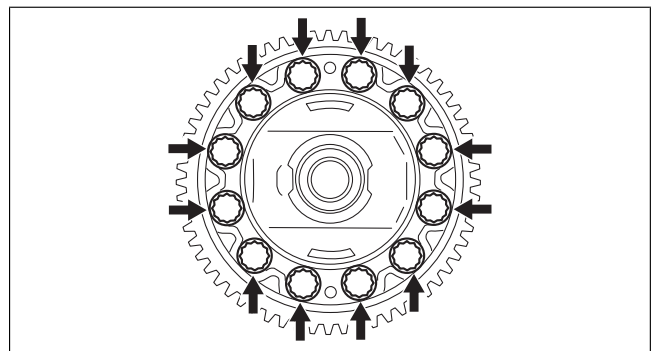
(2) Loosen the bolts shown in the figure.

### Caution

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

### Note

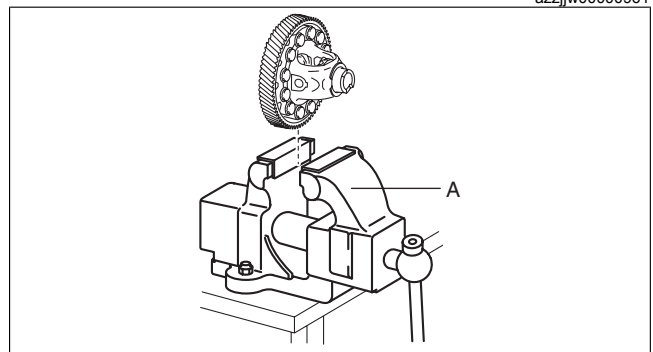
- Change the securing position of the ring gear and differential with the vise and loosen all of the bolts shown in the figure.



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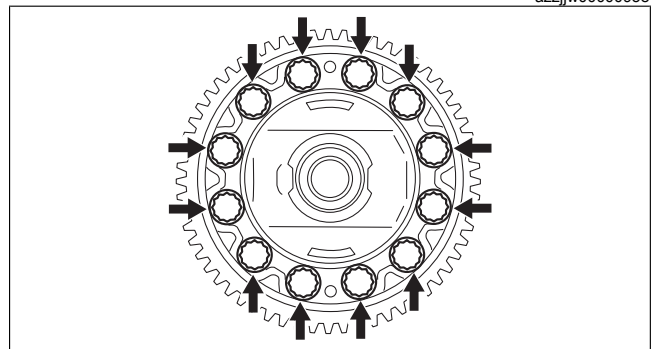
(3) Remove the ring gear and differential from the vise.

A : Vise



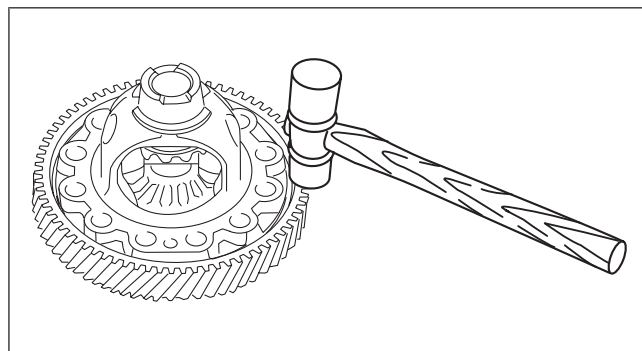
azzjiw00000958

(4) Remove the bolts shown in the figure.



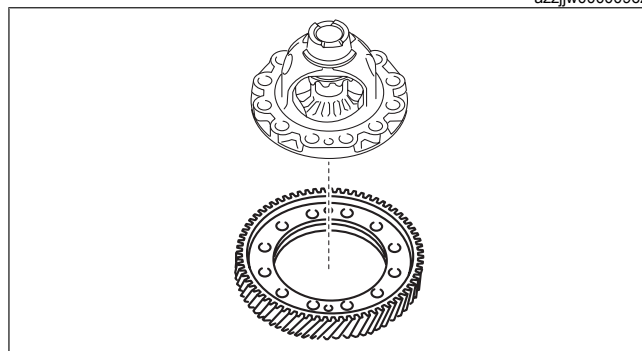
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- (5) Lightly tap the ring gear with a plastic hammer and remove the ring gear.



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|   |           |
|---|-----------|
| 1 | 12 bolts  |
| 2 | Ring gear |

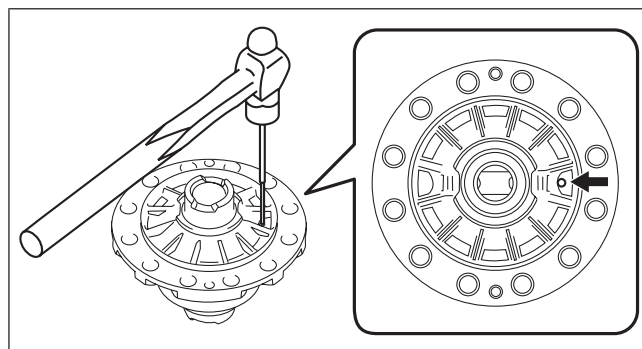


azzjw00000963

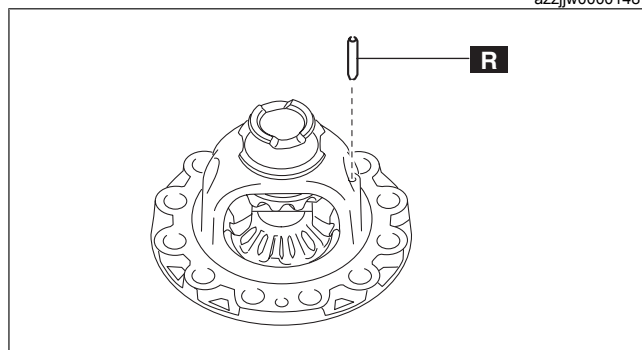
5. Remove the roll pin shown in the figure using a pin punch.

**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.

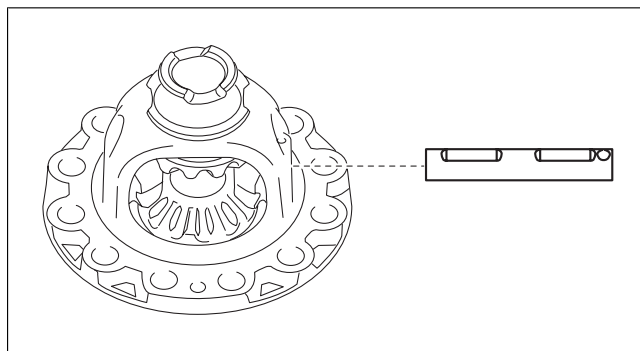


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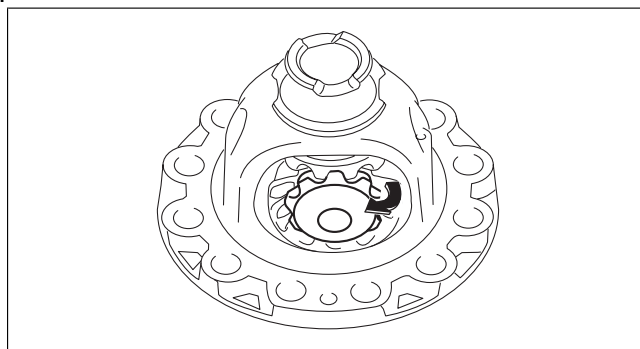
azzjw00001488

6. Remove the pinion shaft.



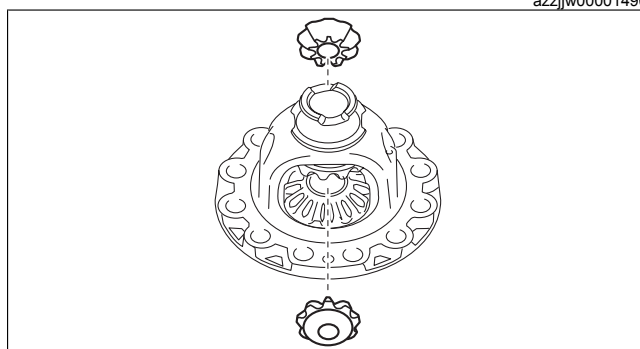
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7. Remove the pinion gears using the following procedure:  
(1) Rotate the pinion gears as shown in the figure.



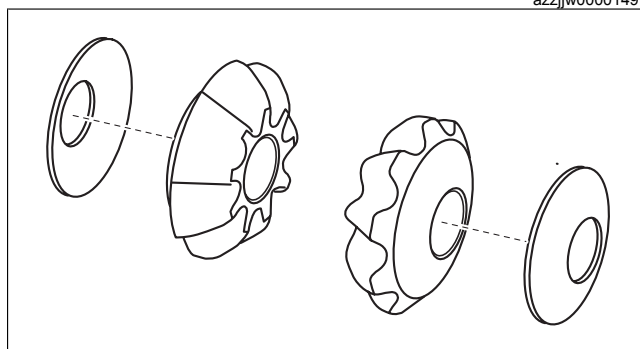
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- (2) Remove the pinion gears.



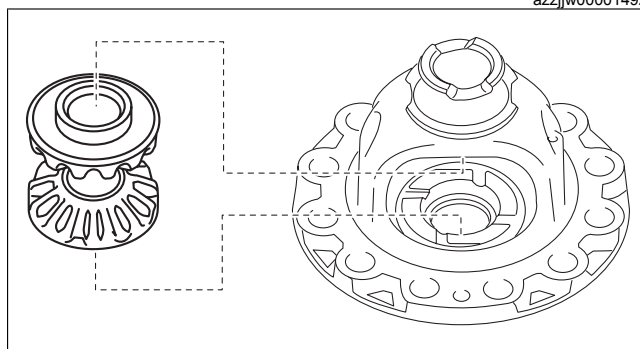
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8. Remove the thrust washers from the pinion gears.



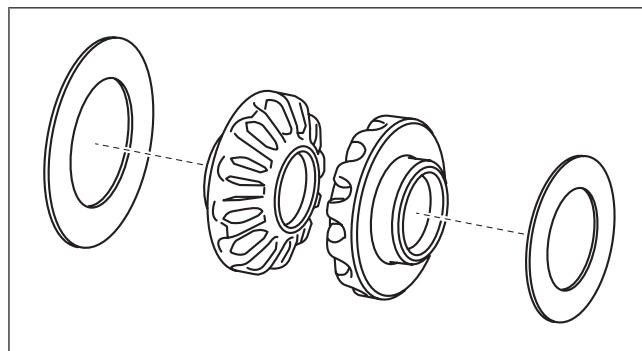
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9. Remove the side gears.



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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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