

Key			
1	Front Diff Assembly	9	Spring Pin (5 x 25)
2	Bevel Gear (25T)	10	Spring Pin (3 x 25)
3	Front Diff Case	11	Ball Bearing (6210)
4	Diff Pinion (10T)	12	External C-ring
5	Thrust Washer	13	Bevel
6	Diff Side Gear (20T)	14	Ball Bearing (6210)
7	Thrust Washer	15	Shim
8	Diff Pinion Shaft	16	Spacer
		17	Taper Roller Bearing (33005J)
		18	Collar
		20	Internal C-ring
		21	Nut
		22	Oil Seal
		23	Spacer

- 1 Remove both road wheels.
- 2 → [Centre Pivot \(□ F-63\) Disassembly](#) and remove the front axle.
- 3 Remove the drain plug from the final case and drain the oil.
- 4 Remove both final case assemblies from the front axle.

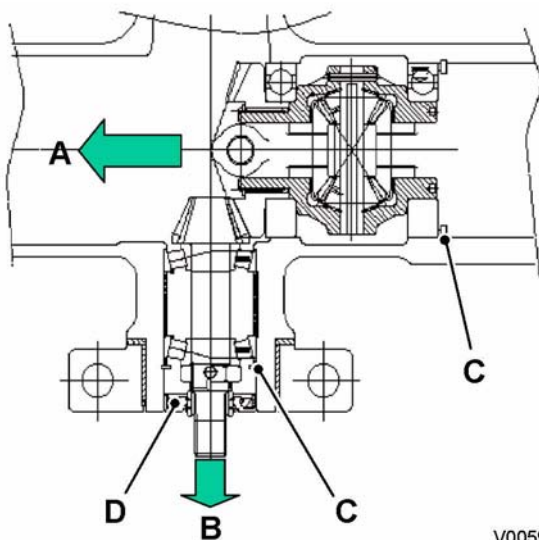


Fig 69.

Key	
A	Diff Case
B	Bevel Pinion
C	C-Ring

- | Key |          |
|-----|----------|
| D   | Oil Seal |
- 5 Remove the oil seal making sure the ring gear and bearing are parallel. Discard the oil seal

**Note:** Make a note of the number of shims 1 → [Fig 70. \(□ F-68\)](#) installed and the shimming thickness.

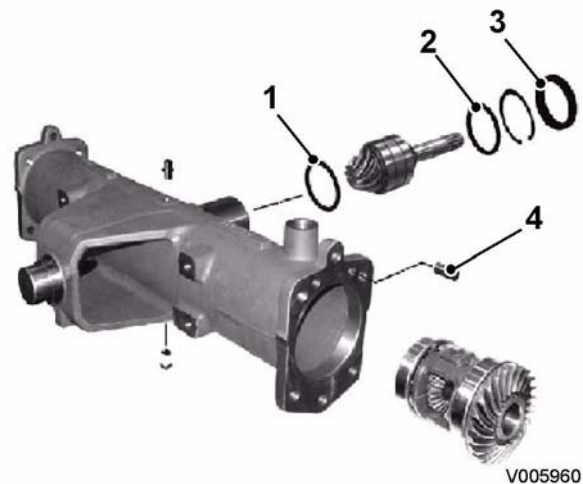
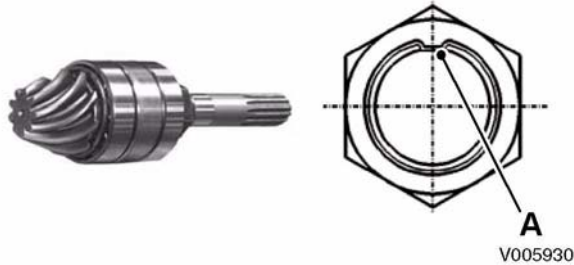


Fig 70.

- 6 Remove the bearing from the axle housing and separate the ring gear from the axle housing.
- 7 Remove the parallel pin 4 → [Fig 70. \(□ F-68\)](#) which retains the axle housing. Discard the straight pin.
- 8 Remove the C-ring C → [Fig 69. \(□ F-68\)](#) and the bevel pinion B together with the taper roller bearings.

- 9 When separating the taper roller bearings from the bevel pinion, release the calking **A** → [Fig 71.](#) ([□ F-69](#)) of the lock nut and remove the bearings.



**Fig 71.**

### Inspection

- 1 Visually check the bearing surfaces of the bevel pinion and ring gear teeth.

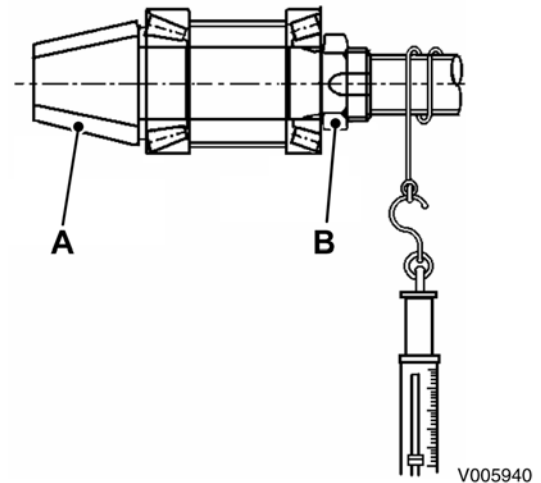
**Note:** The bevel pinion and the ring gear should be replaced as a pair.

- 2 Seriously worn or damaged parts should be replaced.

### Assembly

Assemble in the reverse order of disassembly, taking note of the following instructions:

- 1 Coat each friction surface with grease.
- 2 The bevel pinion and the ring gear are paired after mesh adjustment is performed at the factory. When reassembling the pair, make sure to pair parts with a same reference number.
- 3 Install a new lock nut and tighten to the specified starting torque of 6- 7 Kgf/cm (0.43 - 0.51 lbf/ft). Measure the starting torque as shown → [Fig 72.](#) ([□ F-69](#)).



**Fig 72.**

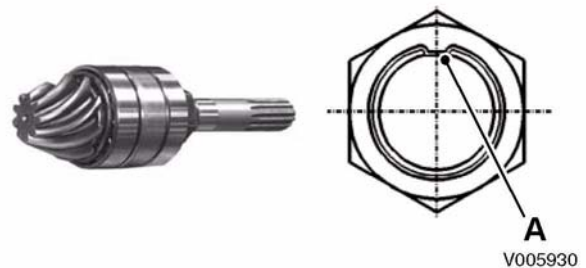
### Key

- A** Bevel Pinion  
**B** Lock Nut

- 4 When either the bevel pinion, ring gear, taper roller bearing, collar etc. have been replaced, check the bevel pinion assembly for the specified thrust play of 0.1 - 0.3 mm (0.004 - 0.011 in) in the front axle housing.

**Note:** The taper roller bearing and collar should be replaced as a pair.

### Bevel Pinion



**Fig 73.**

### Key

- A** Calking Point

### Front Diff Case

- 1 Wash each part and make sure there are no sharp edges on the surface of the thrust washer.
- 2 Apply fresh Molybdenum grease when installing the washer and thrust washer.
- 3 Apply fresh Molybdenum grease to the teeth of the diff pinion and the diff side gear.
- 4 Make sure the spring pin is installed in the correct direction ( $\varnothing 5$  and  $\varnothing 3$ ).
- 5 When either the bevel pinion, ring gear, taper roller bearing, collar etc. have been replaced, check the bevel pinion assembly for the specified thrust play of 0.1 - 0.3 mm (0.004 - 0.011 in) in the front axle housing.

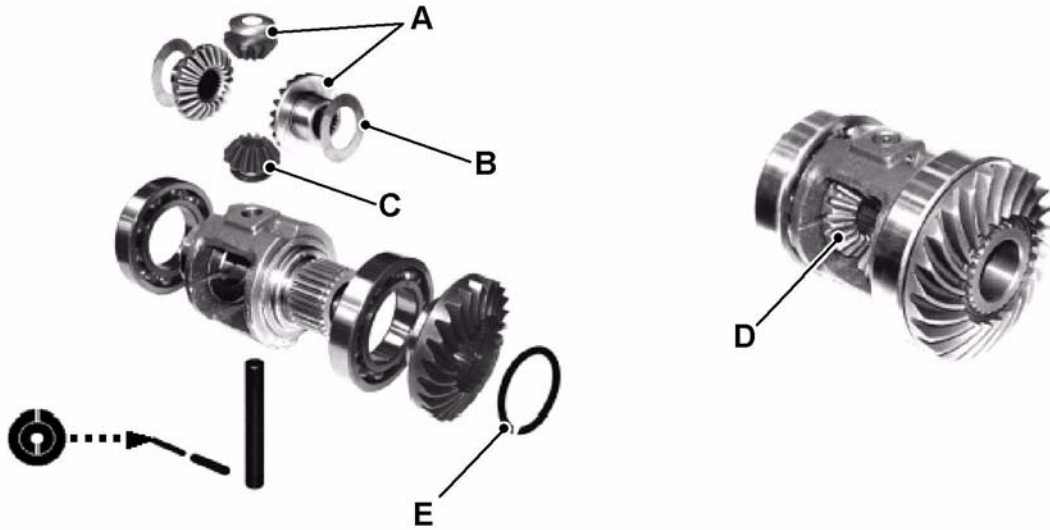


Fig 74.

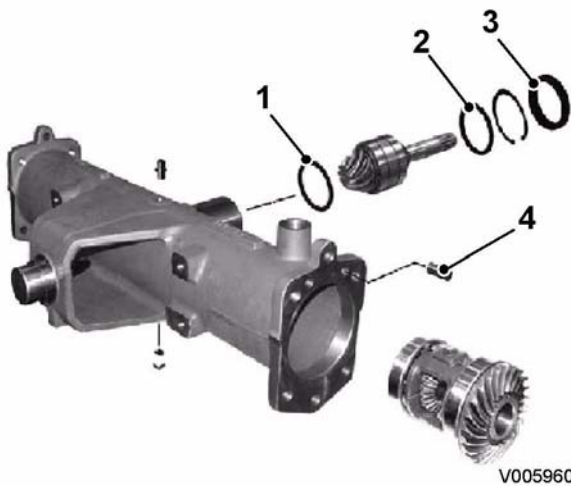
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**Key**

<p><b>A</b> Apply Molybdenum Grease</p>	<p><b>C</b> Pinion Thrust washer</p>	<p><b>E</b> Snap Ring</p>
<p><b>B</b> Thrust Washer</p>	<p><b>D</b> Apply Molybdenum Grease</p>	

### Diff Case and Bevel Pinion

- 1 Apply grease to each friction surface.
- 2 The bevel pinion and the ring gear are paired after mesh adjustment is performed at the factory. When reassembling the pair, make sure to pair parts with a same reference number.
- 3 When installing the taper roller bearings on the bevel pinion, make sure you install a new lock nut and secure it as shown → [Fig 73.](#) ([□ F-69](#)).
- 4 Install the snap ring and install the bevel pinion together with the taper roller bearings → [Fig 75.](#) ([□ F-71](#)).
- 5 Install the bearings in the axle housing and assemble the ring gear in the axle housing.



**Fig 75.**

- 6 Install a new parallel pin 4.
- 7 When either the bevel pinion, ring gear, taper roller bearing, collar etc. have been replaced, check the bevel pinion assembly (through the drain plug hole) for the specified thrust play of 0.1 - 0.2 mm (0.004 - 0.008 in) in the front axle housing.