

Drive shaft

General

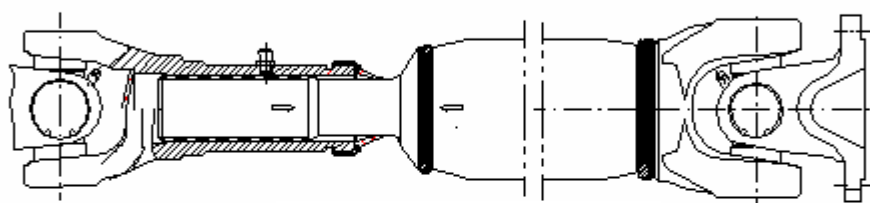
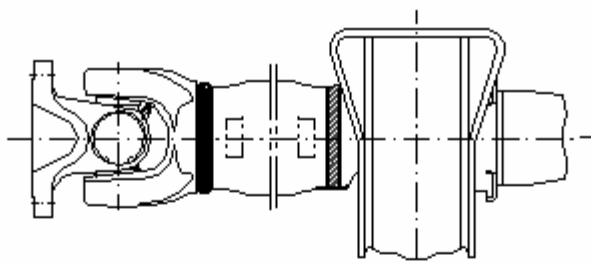
Technical parameters

Fixed torque

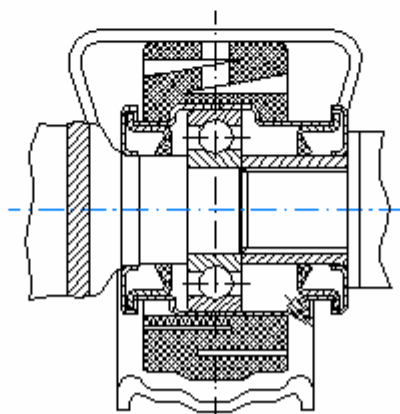
Disassembling and reassembling

Trouble-shooting

General



Drive shaft assembly



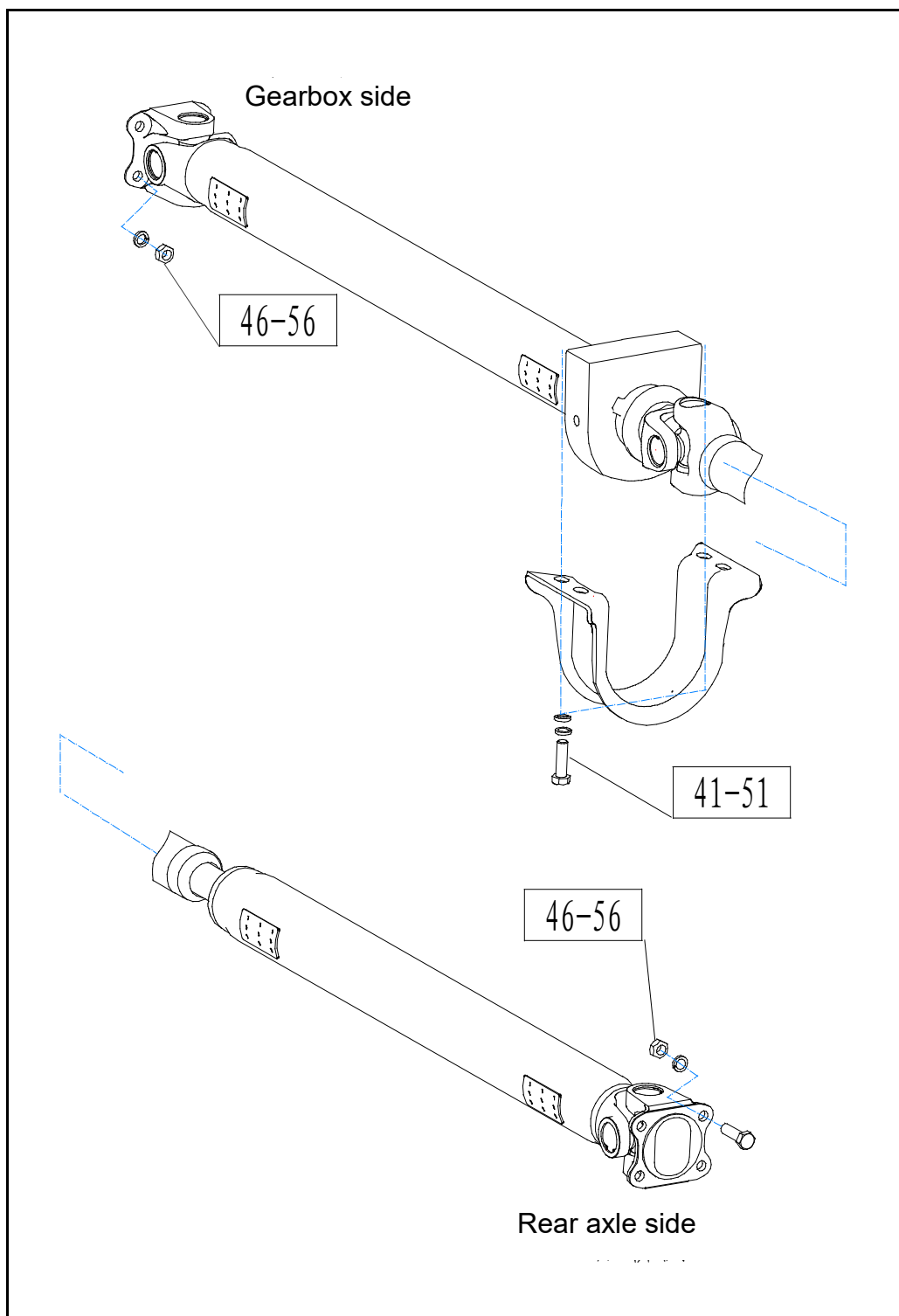
Middle support assembly

Technical parameters

Bearing fixing mode			Outer spring ring
Cross length	Mm		71
Cross length outside diameter	Mm		18.44
Shaft tube specification	Diameter × thickness	Mm	69×2.5
Flange bolt specification			φ10
Flange dimension	Reference diameter	Mm	φ85
Max. unbalance	g·cm/rpm		Not exceeding 35/3200

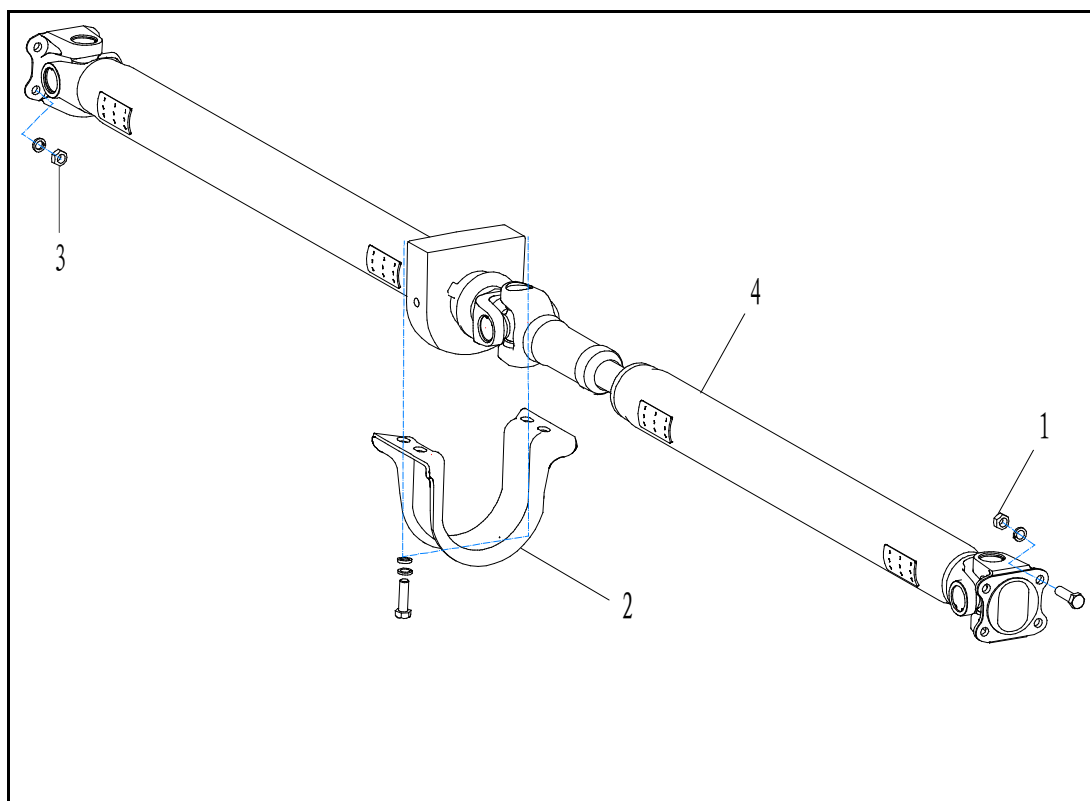
Fixed torque

N·m



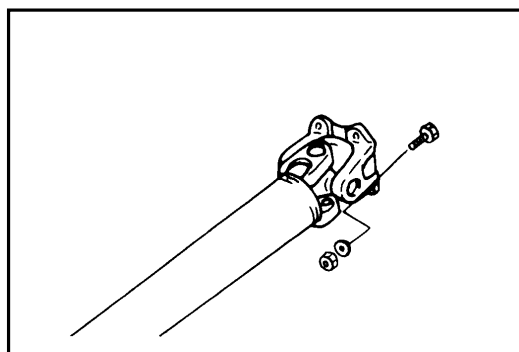


Disassembling



Disassembling steps

1. Differential end nut
2. Middle suspension
3. Transmission end nut
4. Drive shaft assembly



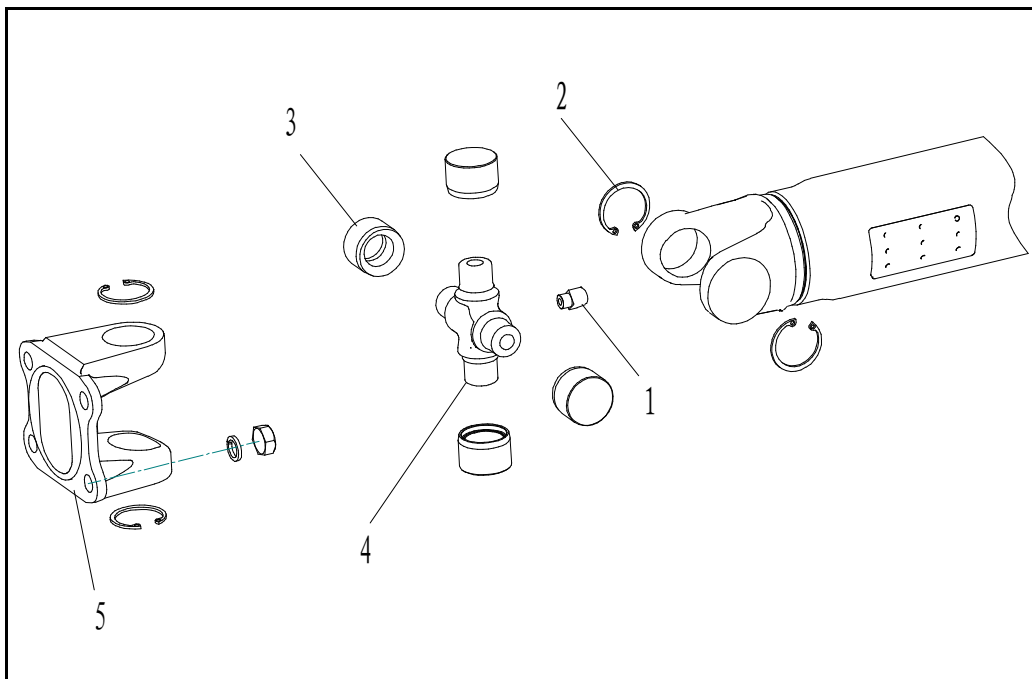
Important operation

As the drive shaft requires good balance, assembly mark should be made on the universal joint during the disassembling.



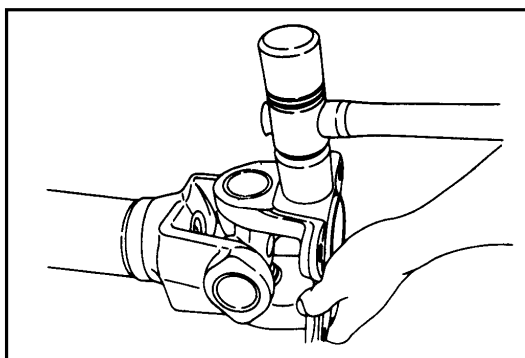
Disassembling

Universal joint



Disassembling sequence

- | | |
|-------------------------------------|----------------|
| 1. Cross grease nipple | 4. Cross |
| 2. Universal bearing retaining ring | 5. Flange yoke |
| 3. Needle bearing | |



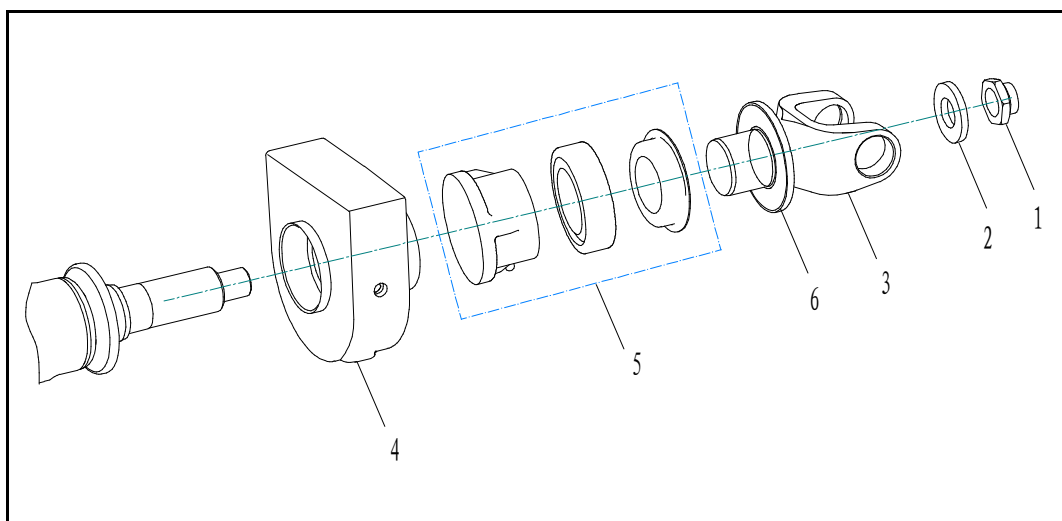
Importance operation - disassembling



1. Needle bearing

Knock on the flange yoke to remove the bearing and then tap on the cross to remove the needle bearing. Remove the other bearings in the same way.

Center bearing



Disassembling sequence

- | | |
|------------------|-------------------|
| 1. Nut | 5. Center bearing |
| 2. Washer | 6. Dust shield |
| 3. Yoke | |
| 4. Middle rubber | |



Inspection and repair

If wearing or other faults are found on the components during the inspection, repair or replacement should be carried out.

Cross

Needle bearing

Flange yoke

Yoke

Center bearing

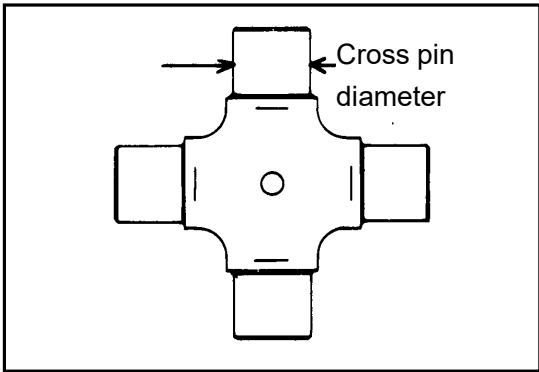
Vibration isolating rubber bearing

Bracket



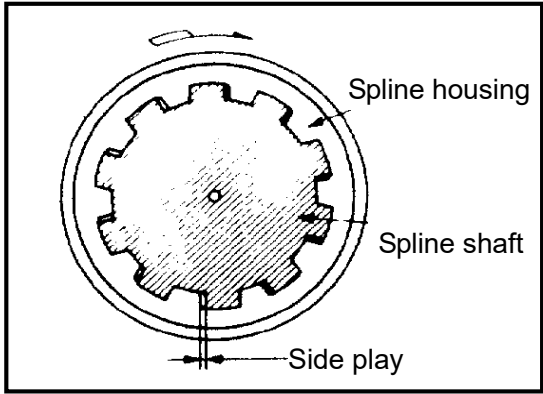
Visual inspection

Check the following components for wearing, damage and other abnormal conditions.



Cross pin diameter

(mm)	
Dimension	Limit
18.44	18.34



Hj Spline side play

(mm)	
Standard	Limit
0.1	0.3



Unbalance inspection (for reference only)

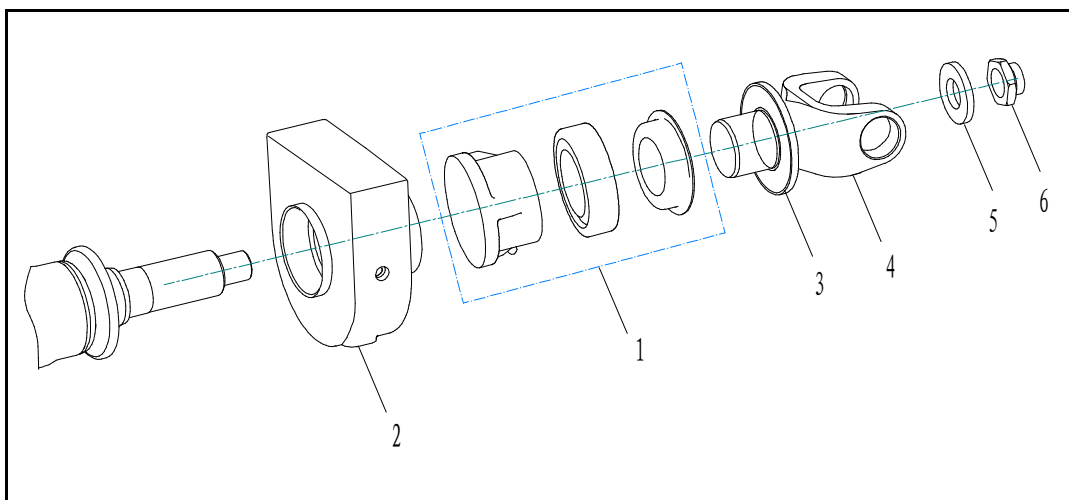
Measure the unbalance value of certain point in cross.

Speed at measurement (rpm)	Unbalance (g·cm)
3200	35



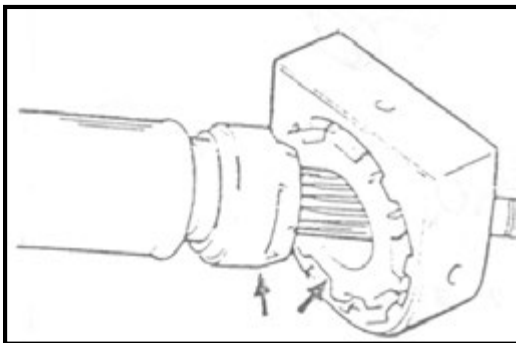
Reassembling

Center bearing



Disassembling sequence

- | | |
|-------------------|-----------|
| 1.. Middle rubber | 5. Washer |
| 2. Center bearing | 6. Nut |
| 3. Dust shield | |
| 4. Yoke | |



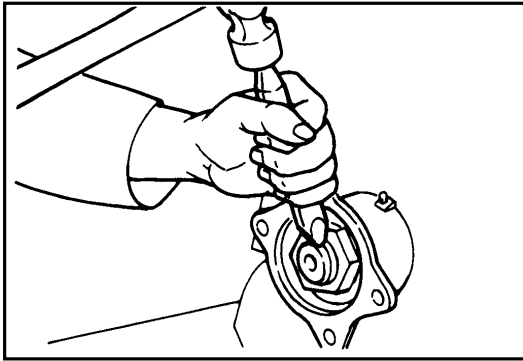
Important operation

Apply grease on oil seal lip and middle bearing

Grease. Recommended grease type:

Fuchs EPT-2.5 grease

Filling-up quantity 20 - 25g.

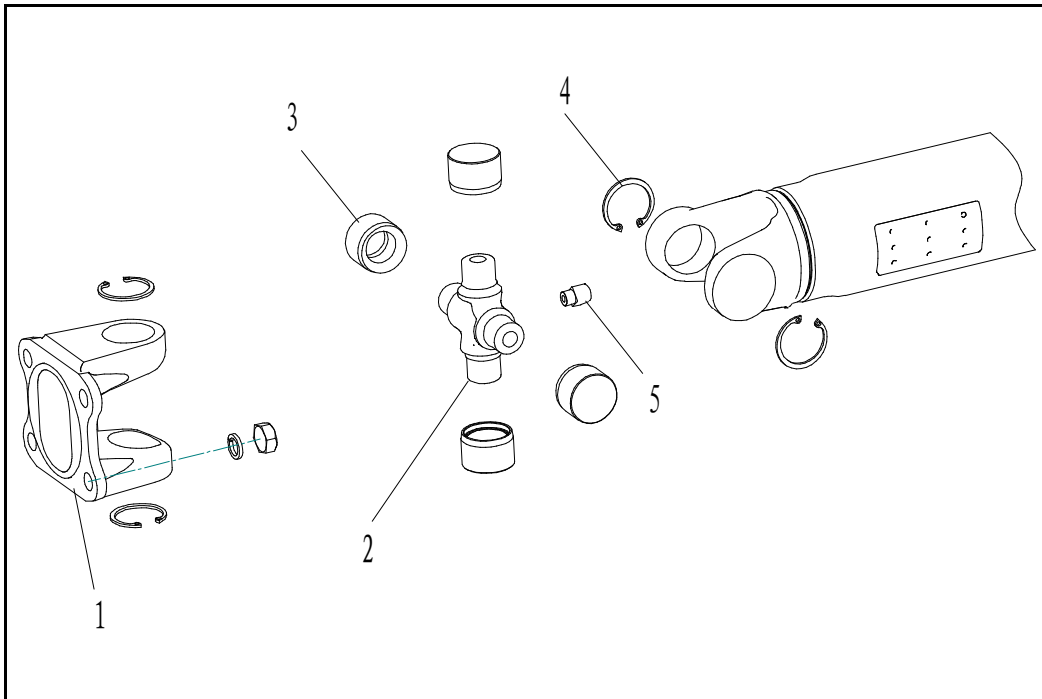


Important operation

Staking on the nut after the middle nut is tightened.

Two symmetrically on circumference.

Universal joint



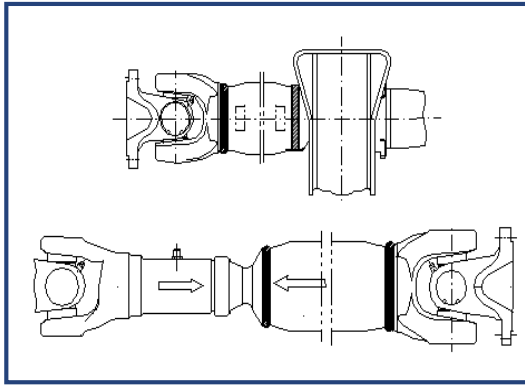
1. Flange yoke

2. Cross

3. Needle bearing

4. Universal bearing retaining ring

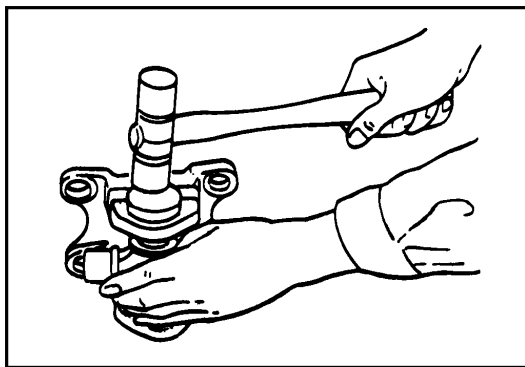
5. Cross grease nipple



Important operation - - - reassembling

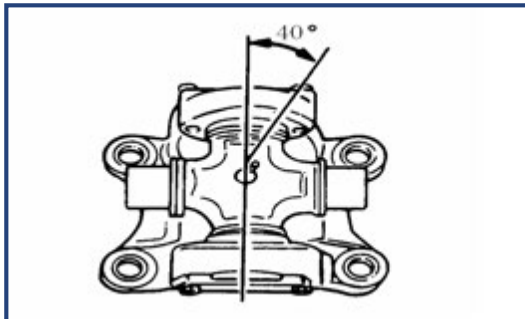
1. Flange yoke

The flange yoke of the drive shaft must be installed as shown in the figure. The spline spindle and spline yoke should be assembled in alignment as shown by the arrow.



2. Needle bearing

Apply Fuchs EPT - 2.5 grease on the oil seal and needle bearing. Use cross as the guide to fit needle bearing in the flange yoke by knocking with soft face hammer.



3. Cross grease nipple

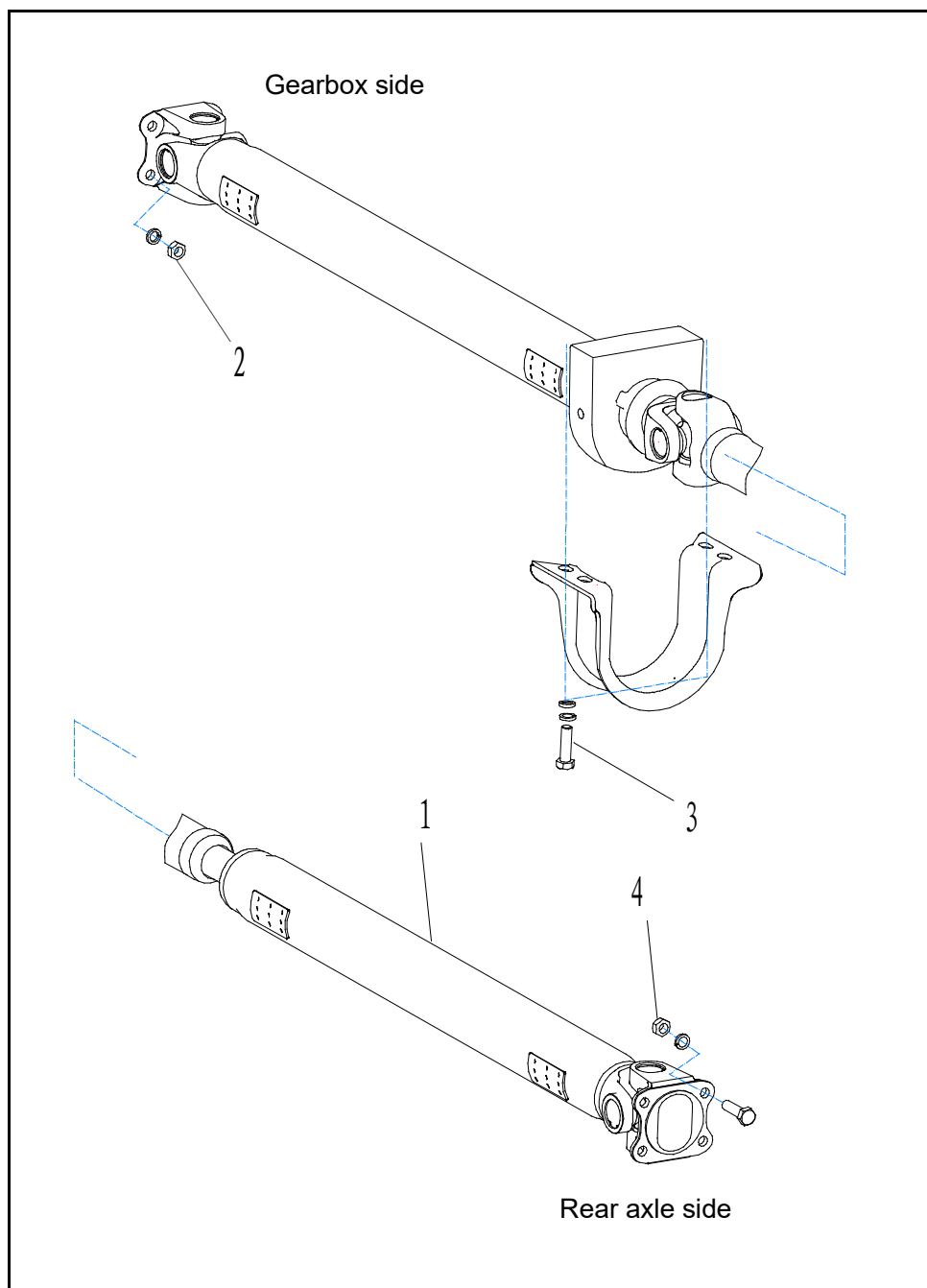
Install the grease nipple to the specified angle on the cross. Make sure that the grease nipples face upward.



4. Universal bearing retaining ring

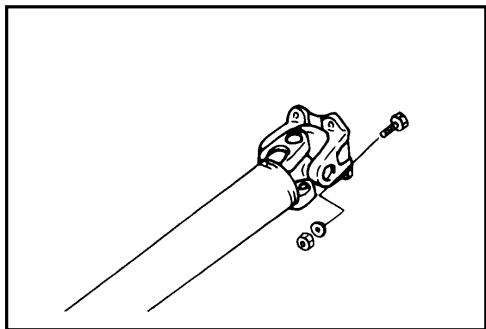
Do not use worn universal bearing retaining ring. After the bearing is installed, select and fit the appropriate universal bearing retaining ring to make the cross end play not exceed 0.1mm.

Assembly



Assembling steps

1. Drive shaft assembly
2. Transmission end nut
3. Middle suspension
4. Differential end nut

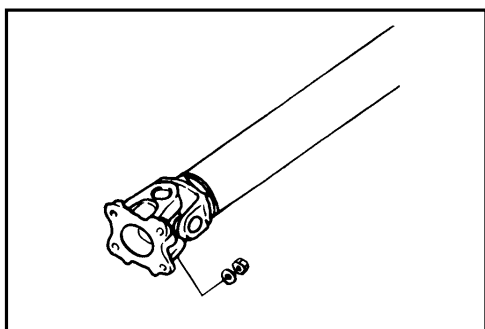


Importance operation - Assembly



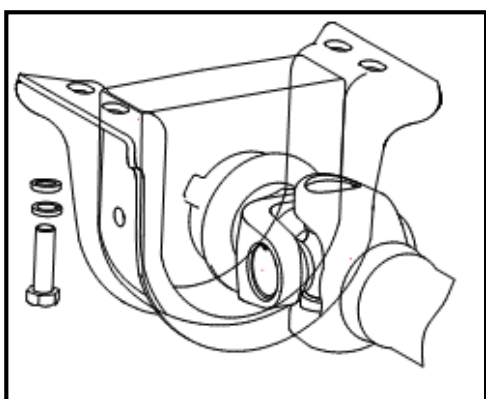
1. Transmission side nut

Torque (N·m)	46-56
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2. Differential end nut

Torque (N·m)	46-56
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Middle support nut

Torque (N·m)	41-51
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Trouble-shooting

