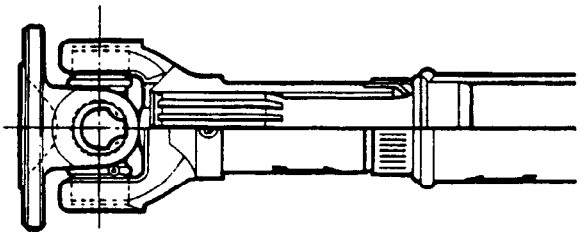
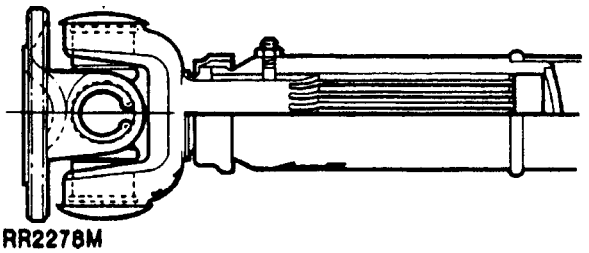
DRIVE SHAFTS • OVERHAUL

NOTE: Rear drive shafts fitted to early models have a universal joint assembly with an internal splined bore which moves along the outside of the main drive shaft spline.
Later models have a re-designed rear drive shaft, the universal joint assembly has been modified to incorporate a splined shaft which moves inside a hollow drive shaft, refer to the illustrations for identification as to which drive shaft is fitted to the vehicle.
The design change does not affect the overhaul of the yoke and spider assemblies.



RR2277M

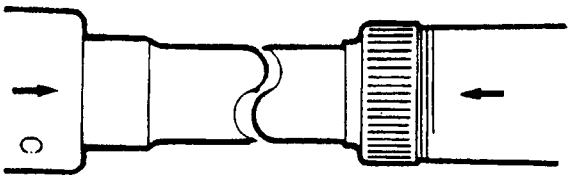


RR2278M

Dismantle

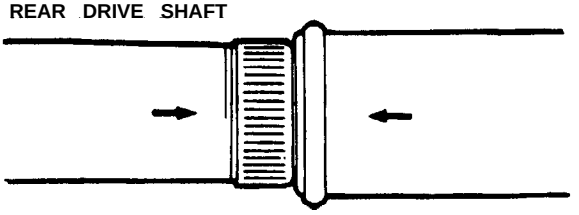
1. Place the vehicle over a pit or on a suitable hoist.
2. Undo the 8 nuts and using the sliding joint, remove the drive shafts from the vehicle.
3. Note the alignment markings on the yoke and the drive shaft (front), sliding member and the drive shaft (rear).

FRONT DRIVE SHAFT



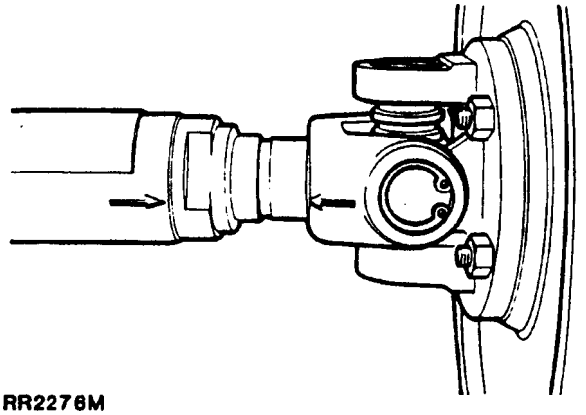
RR1997E

REAR DRIVE SHAFT



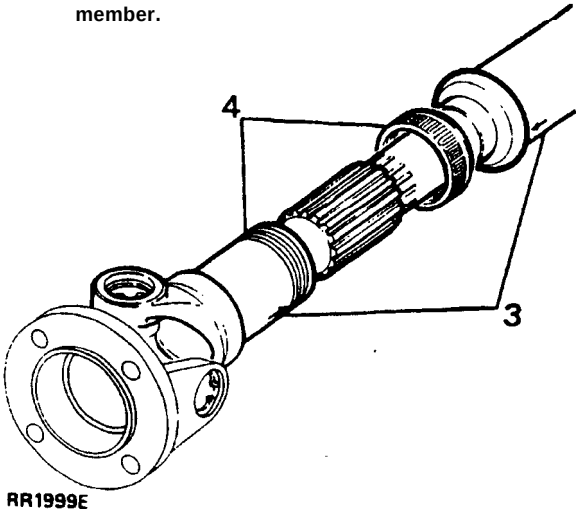
RR1998E

REAR DRIVE SHAFT: NEW CONDITION



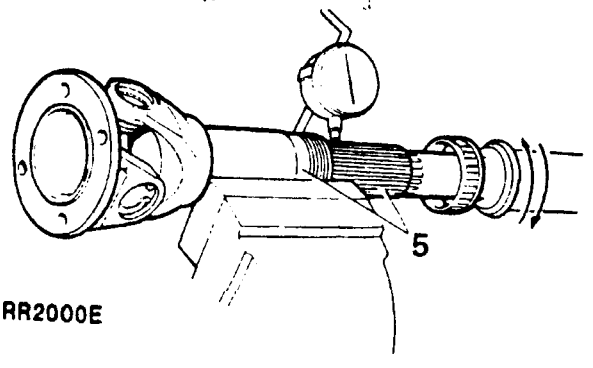
RR2276M

4. Unscrew the dust cap and withdraw the sliding member.



RR1999E

5. Clean and examine the splines for wear. Worn splines or excessive back-lash will necessitate drive shaft replacement

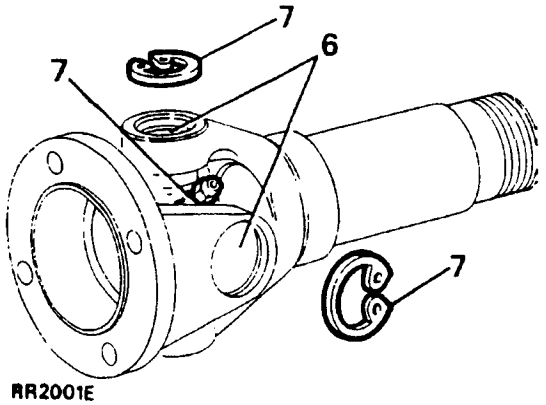


RR2000E

6. Remove paint, rust, etc., from the vicinity of the universal joint bearing cups and circlips.

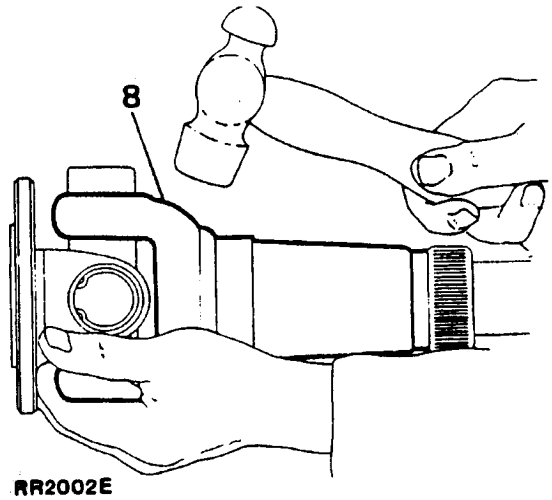
NOTE: Before dismantling the drive shaft joint, mark the position of the spider pin lubricator relative to the journal yoke ears to ensure that the grease nipple boss is re-assembled in the correct running position to reduce the possibility of imbalance.

7. Remove the circlips, and grease nipple.



RR2001E

8. Tap the yokes to eject the bearing cups.



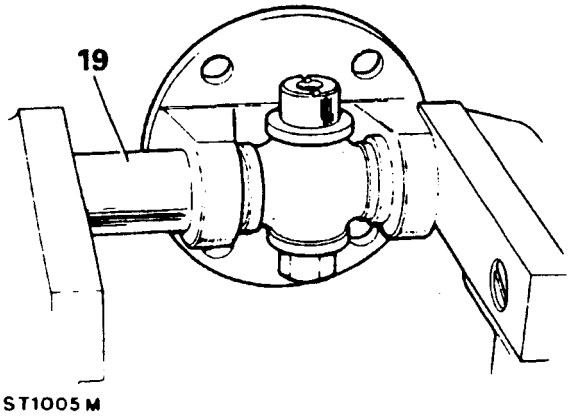
RR2002E

9. Withdraw the bearing cups and spider and discard.
10. Repeat instructions 5 to 8 for opposite end of drive shaft.
11. Thoroughly clean the yokes and bearing cup locations.

Assemble

12. Remove the bearing cups from the new spider.
13. Check that all needle rollers are present and are properly positioned in the bearing cups.
14. Ensure bearing cups are one-third full of fresh lubricant. See Recommended Lubricants.
15. Enter the new spider complete with seals into the yokes of the sliding member flange.
16. Partially insert one bearing cup into a flange yoke and enter the spider trunnion into the bearing cup taking care not to dislodge the needle rollers.
17. Insert the opposite bearing cup into the flange yoke. Using a vice, carefully press both cups into place taking care to engage the spider trunnion without dislodging the needle rollers.
18. Remove the flange and spider from the vice.
19. Using a flat faced adaptor of slightly smaller diameter than the bearing cups press each cup into its respective yoke until they reach the lower land of the circlip grooves. Do not press the bearing cups below this point or damage may be caused to the cups and seals.

NOTE: When replacing joints use only 03EHD series replacement spider packs.



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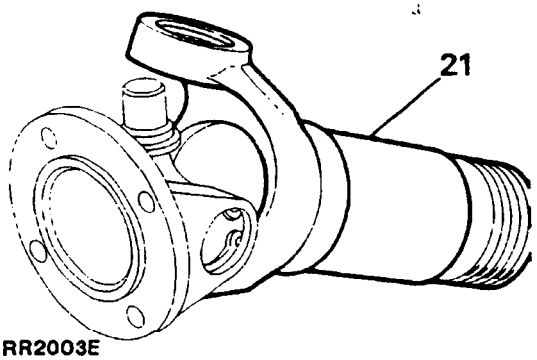
20. Fit the circlips.
21. Engage the spider in the yokes of the sliding member. Fit the bearing cups and circlips as described in instructions 15 to 20.



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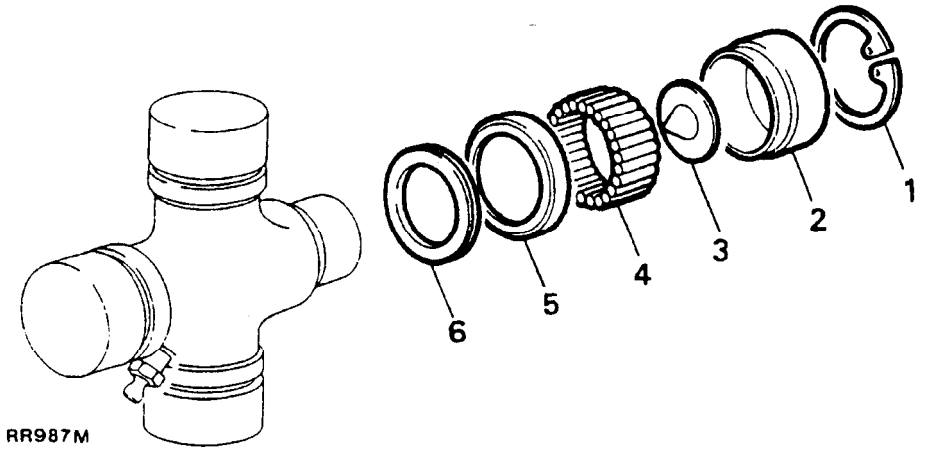

KEY TO SPIDER ASSEMBLY

1. Circlip
2. Bearing cup
3. Nylatron washer
4. Needle rollers (27 per cup)
5. Seal retainer
6. Seal

22. Lubricate the sliding member splines and fit the sliding member to the drive shaft ensuring that the markings on both the sliding member and drive shaft align.
23. Fit and tighten the dust cap.
24. Fit the grease nipples to the spider and the sliding member and lubricate.
25. Apply instructions 15 to 20 to the opposite end of the drive shaft.
26. Fit the grease nipple and lubricate.

NOTE: FRONT DRIVE SHAFT:
On refitting the front drive shaft it should be noted that the drive flange at the sliding joint end of the shaft is to be fitted to the drive flange at the front end of the transfer gearbox.

REAR DRIVE SHAFT
On refitting the rear drive shaft the drive flange at the sliding joint end of the shaft is to be fitted to the brake drum at the rear of the transfer gearbox.

27. Fit the drive shaft to the vehicle and tighten to the specified torque (see section 06-Torque values).