



8C01.8

Front axle - Dana final drive units

10. Remove the hub, the crownwheel carrier (28) and crownwheel (31) (Fig. 5) using extractor ref. 33780381M1 and sleeve ref. 3378122M1 (see § H).

Remark

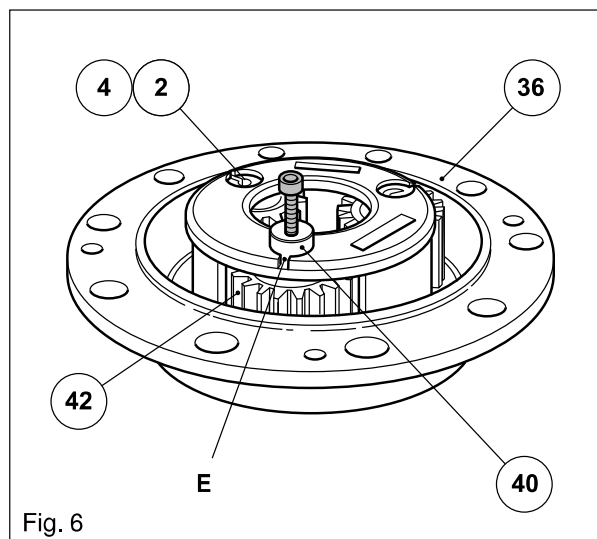
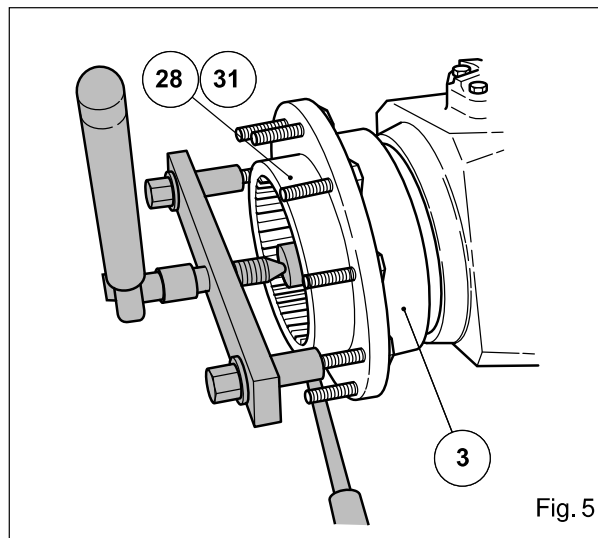
- Smear the cone and thread of the tool with graphite grease in order to avoid unnecessary friction during extraction.

11. Remove snap rings (29). Separate the crownwheel (31) from the crownwheel carrier.

Disassembling the planetary carrier

Final drive unit (Fig.6)

12. Place the planetary carrier (36) on a workbench.
13. Take off circlips (4) and locating pins (2). Take out the planetary gear pins (40) using the above described procedure.





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C . Reassembling and refitting the planetary carrier, crownwheel and sun gear

14. Clean and inspect the components. Replace any parts found to be defective.

final drive unit

15. In each planetary gear (42), place the compound needle bearings (50) coated with bearing grease.
16. Fit the prepared planetary gears in the planetary carrier.
17. Centre the planetary gears.
Position and fit the pins (40) with the holes facing notches E on the planetary carrier (Fig. 6). Fit circlips (4).
18. Manually check the axial clearance and rotation of each planetary gear.
19. Assemble the crownwheel (31) on the crownwheel carrier (28). Fit snap rings (29) correctly positioned in their respective grooves.
20. Prepare the refitting of the hub. Carry out operations 49 and 50 again, then insert the hub assembly (3) and crownwheel carrier (28) fitted with crownwheel (31).
21. Manually check the rotation of the hub.
22. Fit and tighten nut (32) previously lightly smeared with Loctite 270 or its equivalent. Tighten to a torque of 400 - 450 Nm.
23. Lock the nut, by bending its collar without breaking it, into the notch on the swivel housing using an appropriate punch.
24. Fit the sun gear (39).
25. Lubricate O'ring (51) and position it in the groove concerned in the hub.
26. Check for the presence of stop (38) in the planetary carrier.
27. Refit the planetary carrier.
28. Fit and tighten the countersunk screw to a torque of 40 - 50 Nm.

Final operations

29. Turn the hub of the wheel in order to place the filler plug in the horizontal axis of the final drive unit. The same port is used for both filling and checking the oil level of the drive unit.
Screw in plug (26) fitted with its seal (27).
30. Refit the wheel. Remove the axle stands and the trolley jack.
Reminder
Wheel nut tightening torque: 640 - 680 Nm.
31. Remove the wheel chocks and take off the hand-brake.
32. Carry out a road test. Check the oil tightness of the planetary carrier mating face and the filler plug.