

Document Title: <b>Track gearbox, disassembly</b>	Function Group:	Information Type: <b>Service Information</b>	Date: <b>2015/2/21</b>
Profile: <b>PIP, PL4608 [GB]</b>			

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## Track gearbox, disassembly

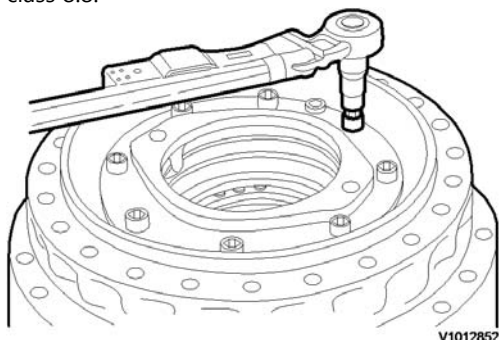
### Preparation before disassembly

Preliminary checks of the gears, hydraulic motor or brake can be made without dismantling the track and the gearbox from the machine

### Disassembly

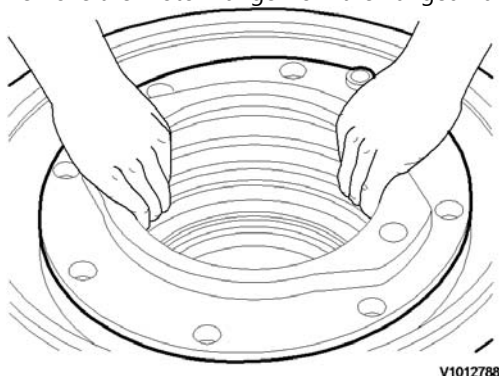
Op nbr 00000

1. After having drained the lubricant oil from the gearbox, unscrew and remove the 8 screws M16 × 35 (45), grade class 8.8.



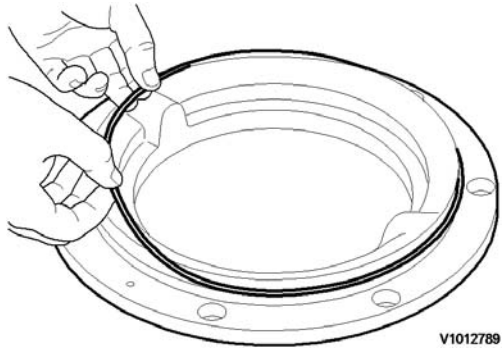
**Figure 1**  
**Removal, screw**

2. Remove the motor flange from the flanged hub.



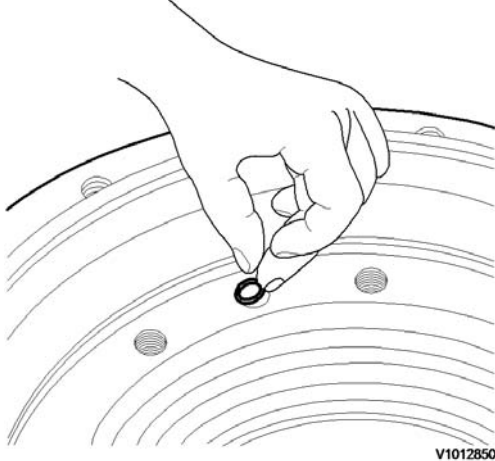
**Figure 2**  
**Removal, flange**

3. Remove the o-ring seal (44) from its seat in the motor flange.



**Figure 3**  
**Removal, o-ring**

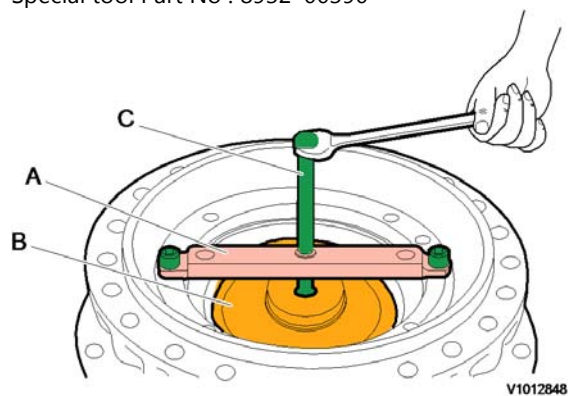
4. Remove the o-ring (3) from its seat in the flanged hub.



**Figure 4**  
**Removal, o-ring**

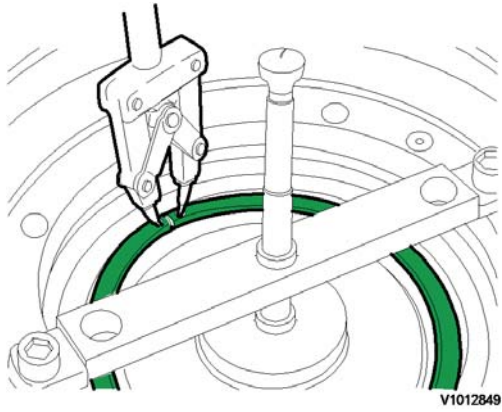
5. After having placed the disc on the spacer (43), fix the pusher to the flanged hub (2). Screw the threaded bar to push the disc on the spacer, thus removing the force of the springs (42) on the circlip (5) and allowing its disassembling.

Special tool Part No : 8932-00390



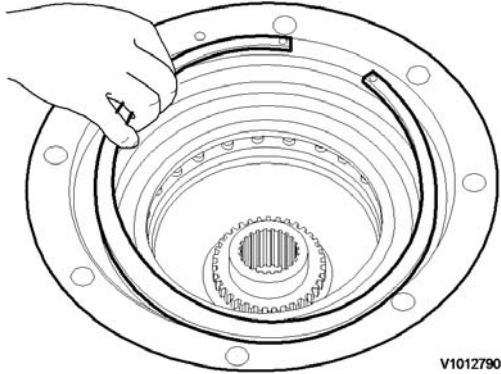
**Figure 5**  
**Removal, hub**

6. Using pliers remove the circlip (5) from its seat.



**Figure 6**  
**Removal, circlip**

7. Disassemble the equipment from the flanged hub and remove the circlip (5).



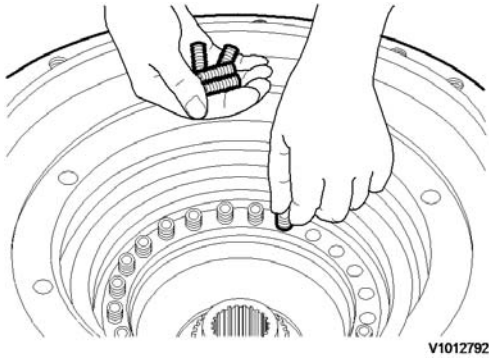
**Figure 7**  
**Removal, circlip**

8. Take out the spacer (43).



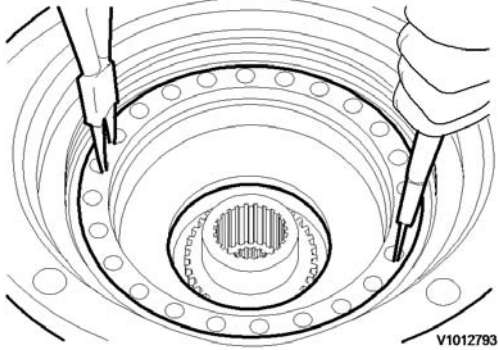
**Figure 8**  
**Removal, spacer**

9. Withdraw the springs (42).



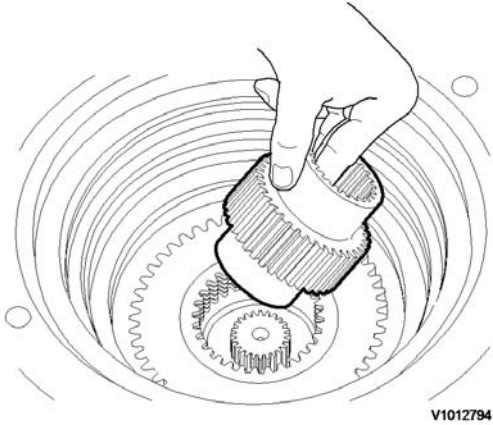
**Figure 9**  
**Removal, spring**

10. Using pliers remove the piston (39).



**Figure 10**  
**Removal, piston**

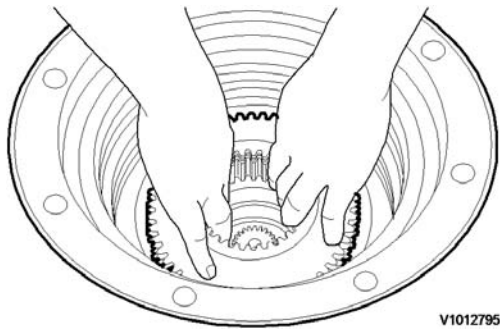
11. Take out the shaft (41)



**Figure 11**  
**Removal, sun gear**  
**NOTE!**

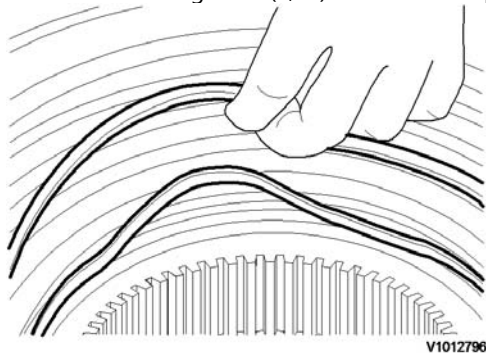
It is possible to remove the piston by pumping compressed air into the brake port.

12. Take out the brake discs pack (12,13).



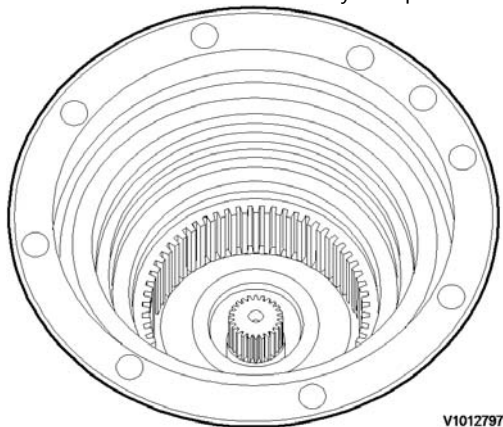
**Figure 12**  
**Removal, brake discs**

13. Remove the o-ring seals (9,10) and the backup-rings (8,11) from its seats in the flanged hub (2).



**Figure 13**  
**Removal, o-ring**

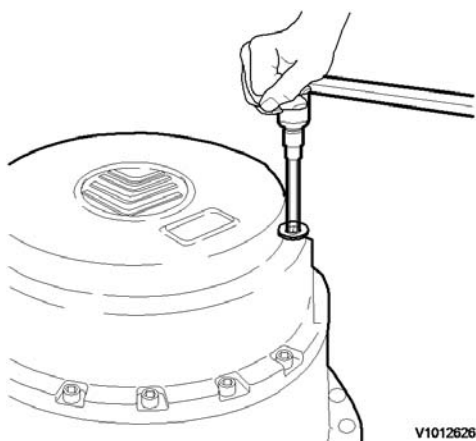
14. Internal view : brake disassembly completed.



**Figure 14**  
**Gearbox housing**  
**NOTE!**

In order to proceed with the gearbox disassembly, it is now necessary to disassemble it from the machine and continue in a properly equipped workshop. Disassemble the hydraulic motor by unscrewing the 2 screws M20 × 50 grade 8.8 (47), fixing it to the gearbox.

15. Overturn the gearbox, unscrew the 2 plugs M22 × 1.5 (31) placed on the end cover of the gearbox (29).



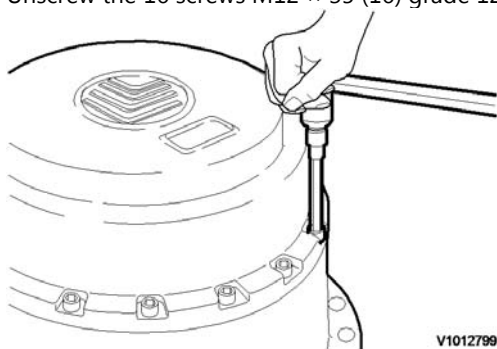
**Figure 15**  
**Removal, cover**

16. Remove the 2 plugs and its washers (31, 32) from the end cover.



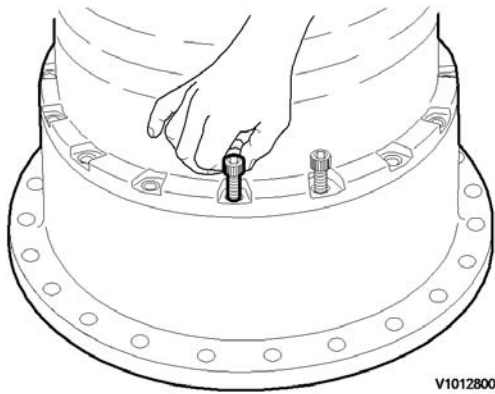
**Figure 16**  
**Removal, plug**

17. Unscrew the 16 screws M12 × 35 (16) grade 12.9.



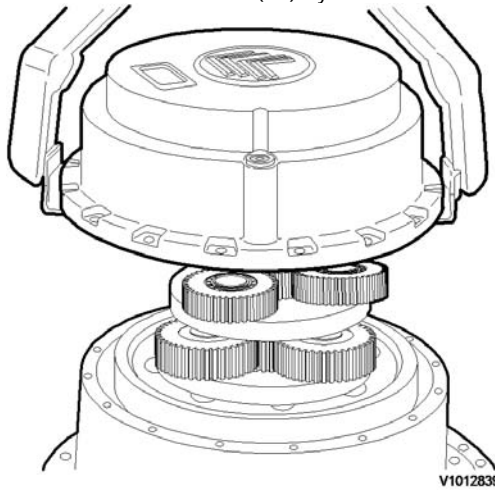
**Figure 17**  
**Removal, screw**

18. Remove the screws (16) from the end cover (29).



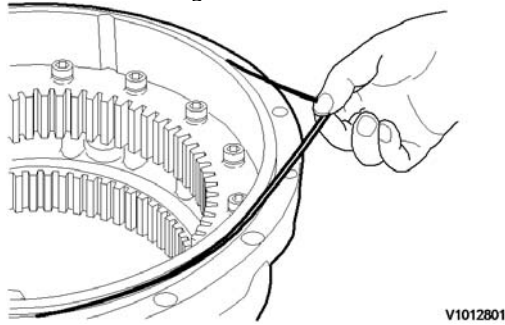
**Figure 18**  
**Removal, screw**

19. Take out the end cover (29) by means of an extractor.



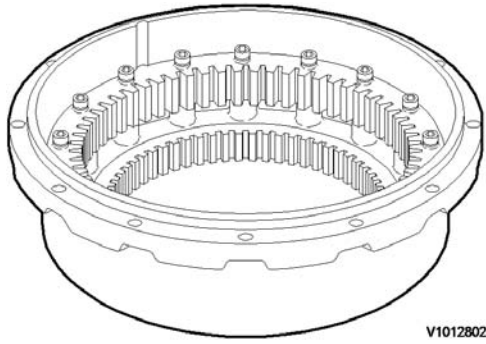
**Figure 19**  
**Removal, cover**

20. Remove the o-ring seal (15) from its seat in the end cover(29).



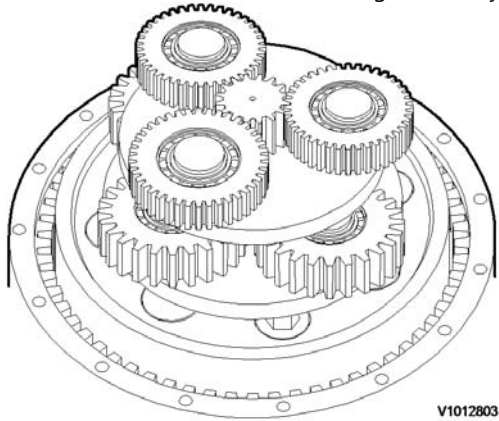
**Figure 20**  
**Removal, o-ring**

21. View of the end cover.



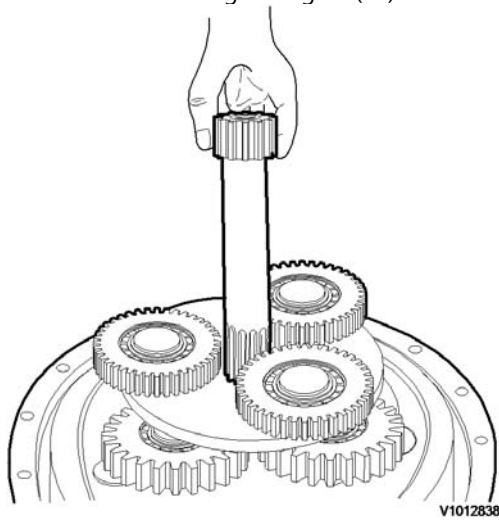
**Figure 21**  
**Cover**

22. Now the 1st and 2nd reduction stages are fully visible.



**Figure 22**  
**Removal, gear**

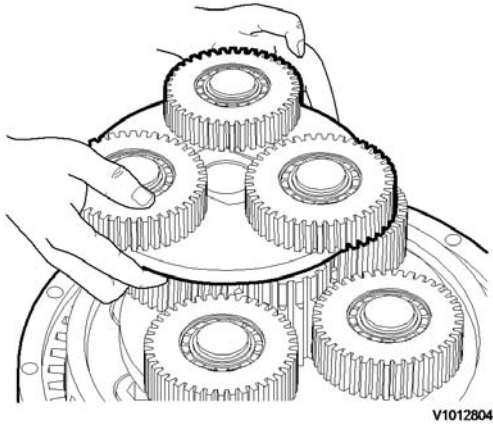
23. Withdraw the 1st stage sun gear (25).



**Figure 23**  
**Removal, sun gear**

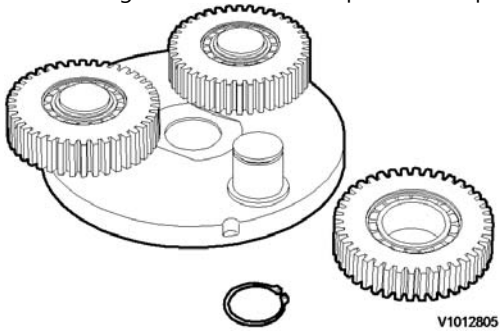
24. Take out the 1st stage reduction carrier (22).





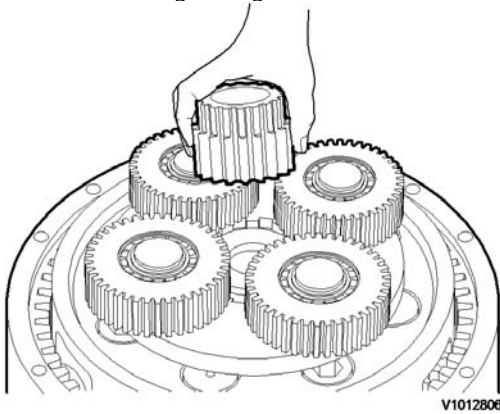
**Figure 24**  
**Removal, carrier**

25. After having withdrawn the circlips from the planetary carrier pins, remove the planet gears (20).



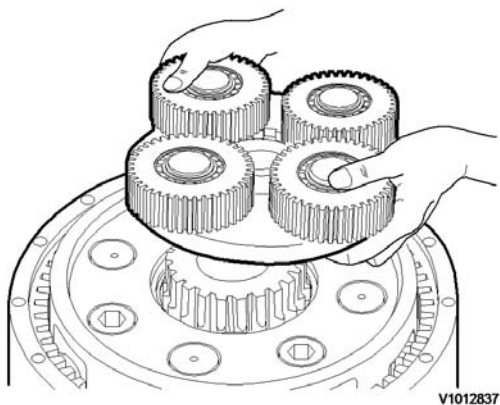
**Figure 25**  
**Removal, gear**

26. Remove 2nd stage sun gear (23).



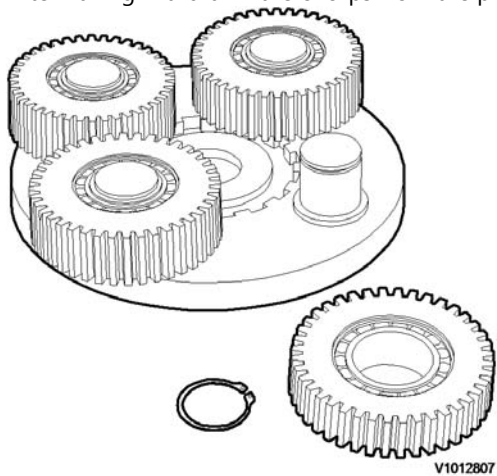
**Figure 26**  
**Removal, sun gear**

27. Remove the 2nd reduction stage carrier (28).



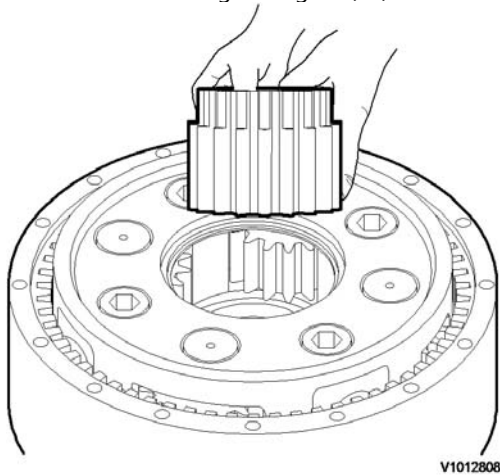
**Figure 27**  
**Removal, carrier**

28. After having withdrawn the circlips from the planetary carrier pins, remove the 4 planetary gears (18).



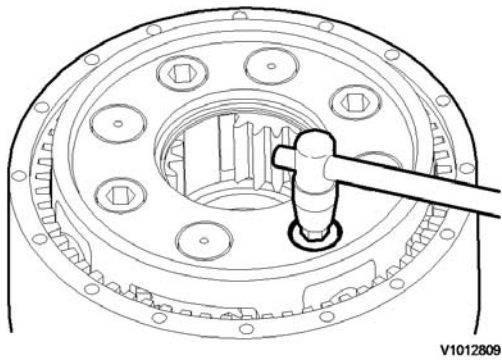
**Figure 28**  
**Removal, gear**

29. Take out the 3rd stage sun gear (35).



**Figure 29**  
**Removal, sun gear**

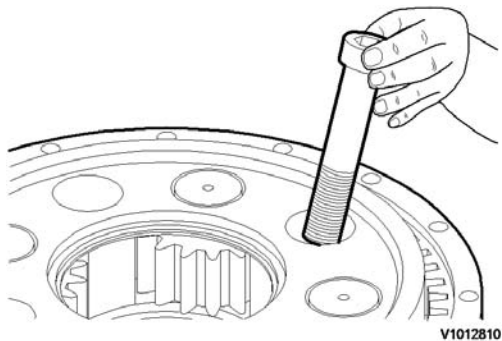
30. Unscrew the 4 screws M30 x 150 (36), grade 8.8, fixing the 3rd stage planetary carrier (34) to the flanged hub (2).



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**Figure 30**  
**Removal, screw**

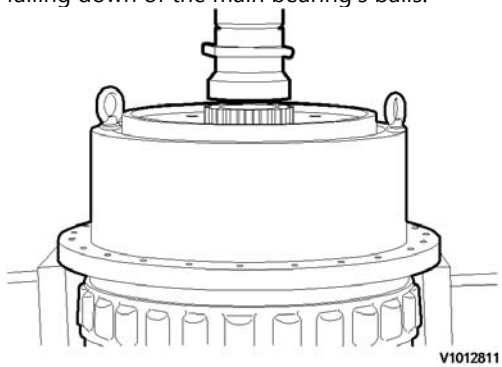
31. Withdraw the 4 screws.



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**Figure 31**  
**Removal, screw**

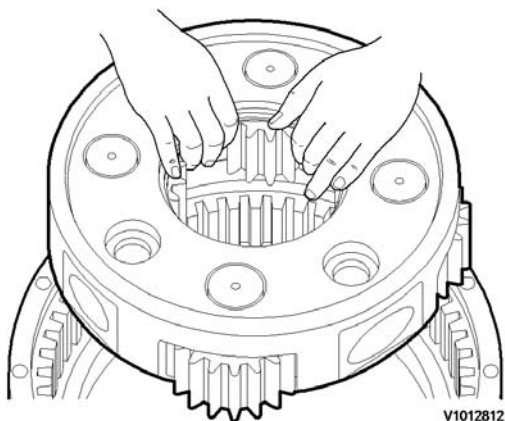
32. By means of a press, remove the flanged hub (2) from the gearbox housing (7), paying attention to the eventual falling down of the main bearing's balls.



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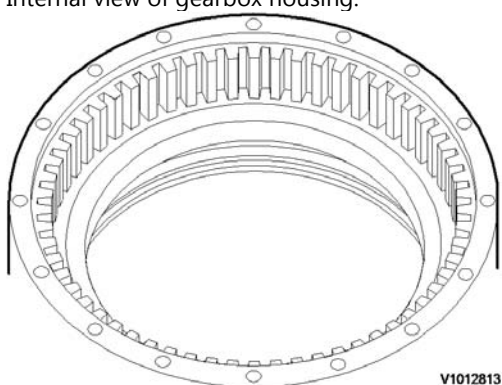
**Figure 32**  
**Removal, hub**

33. Remove the 3rd stage planetary carrier (34) from the flanged hub.



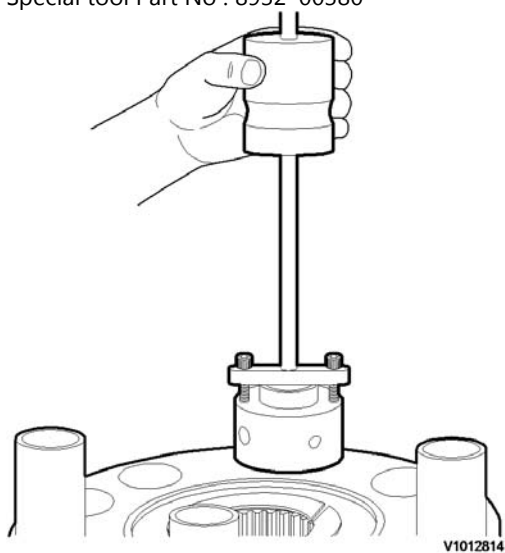
**Figure 33**  
**Removal, carrier**

34. Internal view of gearbox housing.



**Figure 34**  
**View, housing**

35. Withdraw bushes (37) from the flanged hub (2).  
Special tool Part No : 8932-00380



**Figure 35**  
**Removal, bushes**

36. By means of an extractor, remove the inner races of the bearing (6) and spacer (40), on the flanged hub.

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