

Gearbox Oil Partial Change Procedure

1. Take the car for a drive to warm up gearbox
2. Remove fill plug (8mm hex)
3. Remove drain plug (10mm hex)
4. Inspect, clean and refit drain plug - tighten to 8 Nm
5. Refill gearbox until a trickle comes from the fill port
6. Start engine
7. Refill gearbox until a trickle comes from the fill port again
8. Replace fill plug
9. Hold foot on brake
10. Put in reverse for 5 seconds
11. Put in drive for 5 seconds
12. Put in 2nd gear using paddle, for 5 seconds
13. Put in neutral
14. Throttle to 2000 rpm for at least 30 seconds to fill torque converter
15. Put in park
16. [KW added step] Repeat steps 3 to 15 if doing more than one fluid change
17. Let engine idle
18. Wait until gearbox oil temperature exceeds 69 degrees C (ie. thermostat starts to open)
19. Turn off engine
20. Wait for gearbox oil temperature descends to 30 degrees C (a few hours)
21. Start engine
22. Ensure gearbox oil temperature is equal to or a little greater than 30 degrees C
23. Remove fill plug (8mm hex)
24. Refill gearbox until a trickle comes from the fill port
25. Replace fill plug and torque to 35 Nm
26. Check gearbox oil temperature has not exceeded 50 degrees C during filling
27. If it has, repeat steps 23 to 28
28. Measure fluid out vs fluid in and make sure the same/more went in than came out

Reference:

<https://www.disco4.com/forum/robbies-guide-zf8-auto-transmission-oil-change-141425.html>

Other fluid quantities for reference during servicing:

- Engine Oil 9.4 Litres
- Front Diff Oil 0.54 Litres (dry fill) or 0.51 (wet fill)
- Rear Open Diff 0.85 litres (dry fill) or 0.82 litres (wet fill)
- Transfer Box Oil 1.5 Litres
- Gearbox Oil 8.5 litres (according to AF website)