



RENNKIT

OIL CHANGE GUIDELINE

996 and 997.1 Turbo

Tools Needed:

- Oil Filter Cap Removal Tool
- Oil tank drain plug → 19mm socket and 27mm wrench (1 1/16 will also work)
- Crankcase drain plug → 15mm socket
- Turbo drain plug (1 each side) → 8mm hex
- Torque Wrench(s)

Parts Needed:

- 1 X Oil Filter and new O-Rings (oil filter includes large ring)
(Mann HU 719/5 x, Hengst E14H D77, etc.)
- 1 X Filter housing Small O-Ring 999 707 465 40 [Viton 2x6]
- 1 X Aluminum Sealing Ring (crankcase) 900 123 118 30 [22x27x1.5]
- 2 X Aluminum Sealing Rings (turbo x2) 900 123 140 30 [18x22]
- 1 X Copper Sealing Ring (oil tank) 900 123 010 20 [20x24x1.5]
- 8.5 quarts of oil (e.g. *Mobil1 5W-50*)



- Make sure to have eye protection and gloves (e.g. latex gloves).

Instructions:

1. Warm up the motor to running temperature.
2. We suggest leaving the oil cap and filter in place, this slows the oil tank drain rate a bit.
3. Optional: To prevent engine from firing over with fuel trapped in injector;
 - a. pull/remove C4 fuse BEFORE draining engine oil.
 - b. Crank engine over - possibly get a quick fire on a couple cylinders.
4. Put down pig mats or cardboard to prevent oil from splashing onto floor.
5. Remove crankcase drain plug with 15mm socket / drain oil. Drains just a couple of quarts.
6. Once drained, replace drain plug using a new aluminum sealing ring 900 123 118 30 [22x27x1.5].
7. **Tighten to 52 ft-lbs:**



Crankcase Drain Plug

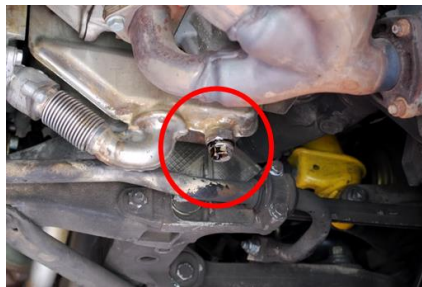
8. Remove oil tank drain plug using 27mm wrench and 19mm socket. **Use 27mm wrench to apply force OPPOSITE to removal of drain plug.** This prevents damage to oil tank from torque generated during removal. **BE CAREFUL HERE!**

Caution: Oil tank holds most of the oil quantity - it drains fast and may splash out. Be sure to take appropriate precautions to prevent hot oil splatter. Use funnel type oil collector.



Harbor Freight Oil Catch Can

9. Once drained, replace tank drain plug with new copper sealing ring 900 123 010 20 [20x24x1.5].
10. **Tighten to 44 ft-lb (use 27mm wrench on tank fitting to pull against):**



Oil Reservoir Drain Plug

11. Optional: Drain turbocharger oil
 - a. Remove a turbocharger drain plug to drain out a few ounces of oil.



Turbocharger Oil Reservoir Drain Plug

- b. Replace turbocharger drain plug with new aluminum sealing ring 900 123 140 30 [18x22].
 - c. **Tighten to 22 ft-lb.**
 - d. Repeat on other turbocharger (one on each turbocharger).
12. Remove oil filter housing cap with filter removal tool (e.g. using 27mm socket).
 13. Remove old filter - inspect.
 - a. There is a small amount of residual oil trapped in housing, remove this oil.
 - b. A turkey baster works well to remove residual oil in housing.
 14. Once Cap assembly is removed, clean and replace both rubber o-rings, coat with a film of new oil.
 15. Insert new filter - it will "snap" when seated properly. Don't push too hard or you may crush the filter.
 16. Slowly pour one quart of oil into center of oil filter housing. The oil prelubes cam housing, vario-cam and turbochargers.
 17. Replace filter housing cap.
 18. **Tighten to 19 ft-lb.**
 19. Add 8 quarts of oil with a funnel.
Note: Owner's manual calls for 8.5 quarts with filter change.
 20. Put oil fill neck cap back on.
 21. Crank engine over (5 to 8 second in duration - may have to do this 2 or 3 times). Check that pressure gauge exceeds 2 bars.
 22. Refit fuse (if removed) and start engine.
 23. Once up to operating temp - check oil level and top off as needed.

Sit back, have a beverage and visit us at www.rennkit.com