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DSG filter & oil servicing

A direct-shift gearbox (DSG) is an electronically controlled gearbox with 2 clutches, or in other words two manual gearboxes in one unit, controlled by electronics. Not a manual, but also not a traditional automatic gearbox, febi's Collin Kennedy explains how to service a DSG to keep it operating properly.

DSG gearboxes are becoming more common, with many drivers assuming that it is actually an automatic gearbox. To many, no clutch means it's an automatic. While the shifting of gears is automatic, the internal workings are actually two manual gearboxes co-operating to supply engine power to the wheels. Gear changes are all carried out electronically by the vehicle, and can occur in less than 0.4 seconds.

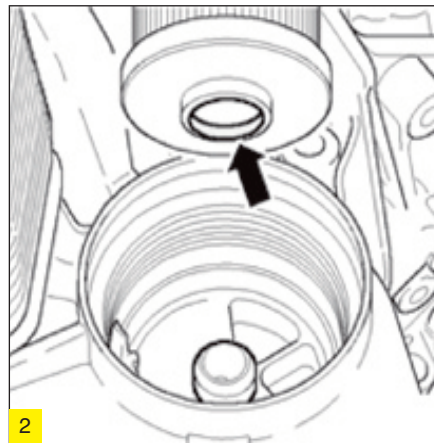
The advantage of a DSG is that precise control over gear changes can be made very quickly, in response to driver demand and existing conditions. This will result in better performance and a longer life, for both of the clutches within the DSG.

Engine off - do not start

- Place an oil collecting tray underneath the transmission. Leave it in place until the end of the procedure.
- Before removing the filter housing from the transmission, tip it slightly in its seating. This allows oil to flow back into the transmission.
- After you have inserted the filter with shoulder downwards (see illustration 2), tighten housing to 20 Nm.
- Raise vehicle (wheels raised and not touching any surface).
- Remove the noise insulation tray.
- Remove inspection plug "A" near the

pendulum support.

- A black plastic overflow tube (see illustration 3) is located in the hole marked "A" (see illustration 4) (with 8 mm hex socket head, torque specification: 3 Nm). Its length determines the oil level in the transmission.



- Remove this oil tube.
 - About 5 litres of oil will drain out.
 - Reinstall overflow tube, tightening it to 3 Nm.
 - Attach the febi DSG oil filling tool to drain/fill hole "A" hand tight.
 - Shake the oil containers before opening.
- For a complete oil & filter change, you will

require 5.5 litres of DSG oil. To change bottles, the shut-off valve can be closed or oil filling tool T028811 can be held higher than the transmission.

- Now start the engine; press and hold the brake pedal while you shift into each selector lever position for approximately 3 seconds per position. Place the lever in position P again. Do not switch off engine.
- Let the engine run while the DSG is in the P position, until the DSG oil temperature reaches between 35 ° to 45 ° Celsius.
- Disconnect the febi DSG filling tool, be cautious as engine will be running & the oil will be hot.
- Let any excess oil drain out.
- As soon as the oil has run out (it slows to a drip), install the bolt, making certain to use a new seal on the bolt.
- The Tightening torque for the bolt is 45 Nm.
- Turn off the engine.
- Dispose of the used oil in an appropriate manner.
- This completes changing the oil and filter.

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