

6 Speed Transmission fluid change procedure with steel oil pan

Notes:

- 1) If the oil pan contains metal shavings there has been transmission damage. An oil change will not fix a mechanical problem with the transmission.
- 2) Drain, filler plug and torque specifications vary by transmission type. Find the appropriate fluid level checking procedures for the vehicle-transmission application you are working on.
- 3) Check the ZF lubrication list TE-ML 11 for the correct transmission fluid to be used. Use of incorrect fluid can cause erratic transmission operation leading to complete transmission failure.

Fluid level change procedure:

- 1) Drive the vehicle so the transmission is at normal operating temperature.
Proceed with extreme caution, hot transmission fluid will cause burns. Wear protective clothing, gloves and face-eye protection equipment.
- 2) Drain the fluid by removing the drain plug (see the appropriate fluid level procedures chart for location)
- 3) After the stream of fluid from the drain plug has reduced to a trickle, loosen and remove the oil pan screws leaving only the corner screws in place.
- 4) To remove the pan, push and hold it against the transmission housing and remove the remaining screws.
- 5) Remove any gasket material stuck to the transmission housing or the pan. Avoid scratching the sealing surfaces while removing the old gasket material.
- 6) Remove the old oil filter. The filters does not have any mounting screws. It is held in place by the oil pan.



- 7) Install the new filter, gently push the filter neck into place without damaging the ribbed seal.
- 8) Clean the pan thoroughly, use solvent and wipe or air blow dry, not to leave any residue.
- 9) Position the oil pan gasket and install the pan. Place and hand tighten the corner screws first to hold the pan and gasket in place.
- 10) Install all pan screws and torque to 12NM following a criss-cross pattern.
- 11) Install a new drain plug seal and torque to proper specification. (see the appropriate fluid level procedures chart for torque value)
- 12) Wipe pan and transmission housing not to leave any oil residue.
- 13) Follow the appropriate fluid level procedures instruction.