



## Technical Information 6 Speed Transmission Fluid Change Procedure



### NOTE

- If the oil pan contains metal shavings there has been transmission damage. An oil change will not fix a mechanical problem with the transmission.
- 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.
- 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.



### CAUTION!

- Hot transmission fluid will cause burns.
- Wear protective clothing, gloves and face-eye protection equipment.

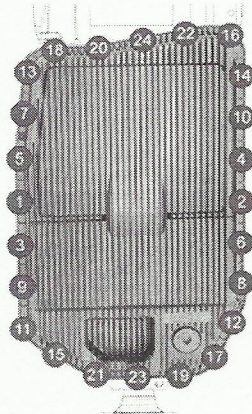


Fig. 1: 6HP19 - 6HP21

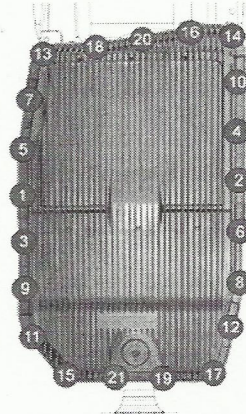


Fig. 2: 6HP26 - 6HP28 - 6HP32

### Fluid level change procedure:

Drive the vehicle so the transmission is at normal operating temperature.

- Drain the fluid by removing the drain plug (see the appropriate fluid level procedures chart for location)
- After the stream of fluid from the drain plug reduced to a trickle, loosen and remove the oil pan screws leaving only the corner screws in place.
- To remove the pan, push and hold it against the transmission housing and remove the remaining screws.
- Clean the transmission housing oil pan mating surface, avoid scratching the sealing surfaces.
- Lubricate the oil filter suction tube o.-ring of the new oil pan with transmission fluid.
- Install the oil pan, gently push the filter neck into place without unseating or damaging the o-ring.
- While holding and pushing the oil pan towards the transmission housing attach all screws until they just make contact with the oil pan, After all screws are installed, tighten screws in order 1 to 21 or 1 to 24 depending on the transmission application. Tightening torque for screws is 10 Nm  $\pm$  1.0 Nm.
- Wipe pan and transmission housing not to leave any oil residue.
- Follow the appropriate fluid level procedures instruction.