

**SUITS: BMW X5 E53, Holden Commodore VE, VN, VP, VR, VS, VT & VZ  
TRANSMISSION CODES: 4L60E, 4L65E, 5L40E, TH700-R4**

**NOTE: TO AVOID PERSONAL INJURY FROM HOT OIL AND FOR MORE EFFICIENT DRAINING, IT IS RECOMMENDED TO SERVICE WHEN TRANSMISSION PAN IS WARM TO TOUCH.**

**FOR CLEANING USE LINT FREE CLOTH ONLY AND ENSURE WORK AREA IS CLEAN.**

- 1) Raise vehicle making sure it is supported safely.
- 2) Clean all dirt from around the transmission oil pan and case.
- 3) Place drain tray under the transmission.
- 4) If the pan does not have a drain plug, hold it in place with one hand and remove the front and side bolts, loosening the rear bolts enough so they still support the pan. Gently tap the oil pan with a rubber hammer to loosen it.
- 5) Lower the front of the pan and drain the fluid into the drain tray whilst still supporting it with one hand.
- 6) Remove the rear bolts of the pan and lower the pan carefully as it will contain some oil.
- 7) Gently remove the transmission filter and inspect the filter material for particles that may indicate potential transmission problem. In some cases the filter seal will be stuck up the filter hole and needs to be removed. Removing the seal is not easy so take your time. Use a flat screwdriver to crush in the seal making sure not to scratch the walls of the hole then pull the seal out with some long nose pliers. Use the new seal as a guide to know where to crush it in.
- 8) Clean the transmission pan, including the magnet and also the surface where the gasket sits, thoroughly and dry with compressed air. The surface must be clean of any old gasket pieces.
- 9) Apply a coat of petroleum jelly or new transmission fluid to the filter seal and carefully install the filter to the valve body. make sure the tube goes in straight while being pushed in.
- 10) Check the magnet is properly located in the dimple inside the now cleaned pan.
- 11) Clean the transmission case gasket surface thoroughly of any old gasket that is still stuck to it by carefully scraping it off. Make sure not to score the surface. The surface needs to be as clean and dry as possible.
- 12) Place the gasket on the pan lip make sure it is not distorted and properly located to avoid any leaks.
- 13) Fit the pan to the transmission case and tighten the bolts by hand starting with the corners, then utilise a torque wrench to tighten bolts up to 12Nm in the sequence shown in diagram below.
  - \* **Not following the recommended tightening torque and sequence may lead to transmission oil leaks and damage to the gasket. Tightening with force greater than 12Nm can squash and crack gasket, where as not tightening enough will lead to oil leakage.**
- 14) Fill the transmission with the manufacturers recommended oil specification. The use of incorrect oil specification may cause damage or incorrect operation of the box.
- 15) Turn on the vehicle and go through and engage all gears starting with "P" and engage each gear until you reach to "D" ("D2" if vehicle has it) and then back to "P" again. After this, take vehicle for drive until operating temperature of engine is reached. Recheck transmission oil level to ensure correct volume of transmission oil is in the vehicle. If more transmission oil is required, restart step 15.

**TIGHTENING TORQUE FOR SCREWS = 12 Nm  
TIGHTEN SCREWS IN ORDER 1 THROUGH 16  
AS SHOWN IN DIAGRAM**

*4L60E Transmission Pan Shown in Diagram*

