

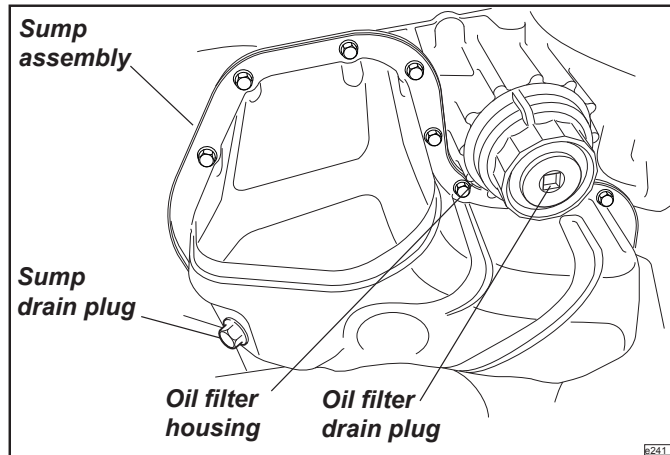


## Engine Oil Drain Plug & Filter

The engine oil drain plug is located in the base of the pressed steel sump.

The cartridge type oil filter is mounted at the front of the engine.

The drain plug and oil filter are only accessible only from beneath with the rear undertray removed.



## Engine Oil & Filter Change

### WARNING

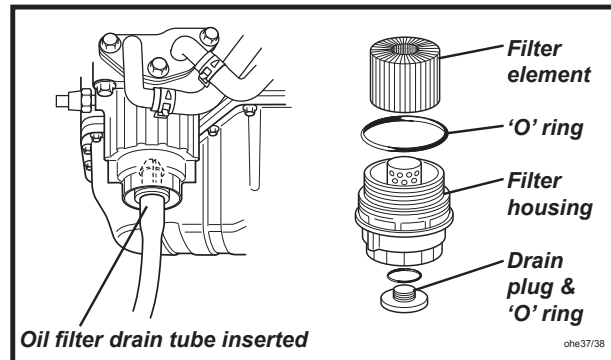
- Engine oil is hazardous to your health and may be fatal if swallowed.
- Take all suitable precautions to guard against scalding from the hot oil.
- Prolonged and repeated contact with used engine oil may cause serious skin disorders, including dermatitis and cancer.
- Use protective gloves to avoid contact with skin as far as possible and wash skin thoroughly after any contact.
- Keep out of reach of children.

### Oil Filter

The oil filter housing incorporates a drain plug to minimise potential oil spillage.

#### Removal:

- Unscrew the drain plug (square socket) from the filter housing cap and catch the small amount of oil released in a rag.
- Connect a length of 15mm i.d. hose to the drain pipe supplied with the new filter. Insert the pipe into the base of the filter housing with the 'O' ring on the top side of the tube flange, and push upwards until it clicks into position and opens the spring loaded drain valve. Collect the draining oil.



- Remove the drain tube by pulling sideways and down.
- Using special tool T000T1441F, unscrew the cap from the filter housing. Discard the filter element and filter cap 'O' ring.

#### Renewal:

- Thoroughly clean the filter cap, filter housing and drain plug.
- Fit the new 'O' ring supplied with the new filter element into the cap groove, and lubricate with engine oil.
- Fit the new filter element into the cap, and install the filter and cap into the housing, ensuring that the 'O' ring does not become displaced.
- Using special tool T000T1441F, torque tighten the cap to 25 Nm. Check that there is no clearance between cap and housing.
- Lubricate the small 'O' ring supplied with the new filter with engine oil, and fit into the groove in the filter housing. Fit the filter drain plug and tighten to 13 Nm.
- Check the oil level (see sump drain plug information on previous page) before starting the engine and restricting to idle speed until the oil pressure tell tale is extinguished. Check for oil leaks with the engine running. Stop the engine when fully warm and re-check oil level.
- Refill with the recommended lubricant (see Section TDU) via the oil filler on the camshaft cover, to the top mark on the dipstick, allowing several minutes for the oil to drain through to the sump before checking the level. Take care not to overfill. Refit the oil filler cap securely, and check the oil level again when the engine is fully warm.