

Installation Procedure

1. Drain Procedure

Note: CAUTION!! Proceed carefully to avoid personal burns due to Hot engine or engine oil.

- (1) Remove Bolt from Cap. Install Drain Pipe (supplied) into Cap releasing seal and drain oil.
Optional hose (not supplied) may be added to Drain Pipe to assist drainage.
- (2) After oil has drained completely, remove Drain Pipe from Cap. Remove used small o-ring from cap groove and discard both O-ring and Drain Pipe.

2. Element Removal and Installation Procedure

- (1) Remove Cap with SST (Special Service Tool – not supplied). Drain any remaining oil from cap and housing.
- (2) Remove old Filter Element from Cap and discard of properly. Remove large o-ring from Cap at notched area In its groove and discard (Be careful not to damage O-ring groove).
- (3) Clean any contamination from inside of Cap and engine side of housing and in Cap area C,E, and A and in housing area D,F, and B.
- (4) Apply clean oil to Large O-ring (supplied) and install in Cap groove C. Make sure O-ring is properly seated and not twisted. Install new Filter Element in Cap.
- (5) Apply additional clean oil to outside of O-ring installed on Cap. Install Cap with Filter Element into housing by turning clockwise by hand until snug. Tighten Cap to 20 to 30 Nm (15 to 23 lb-ft) using SST (Special Service Tool).

3. Bolt and Oil Installation Procedure

- (1) Clean any contamination from O-ring groove in Cap. Apply clean oil to Small O-ring (supplied) and install O-ring in groove of Cap.
- (2) Install Bolt into Cap by turning clockwise by hand until snug. Tighten bolt to 10 to 15 Nm (7.5 to 11.5 lb-ft) using wrench. Add clean oil to engine and run for 3 minutes and check for leaks at Filter Cap/Housing. Check final level of Oil to make sure it is at the full mark on dipstick.

