

## Valve timing procedures

- Removal/refitting requires:
- · Engine removal.
- · Cylinder head removal.

## NOTE: Refer to Technical Data module for tightening torques.

- · Sump removal.
- Engine at TDC on No.1 cylinder [1]11744.
- Ensure crankshaft sprocket keyway at 12 o'clock position [2]11744.
- Align copper coloured chain link with crankshaft sprocket timing mark [3]11744.
- . Align silver coloured chain links with timing mark on each camshaft sprocket [4]11744.
- Ensure correct number of link rollers between timing marks [5]11744.
- · Reset timing chain tensioner:
- · Depress ratchet [6]to release tensioner plunger.
- · Push plunger into tensioner housing and lock with retaining clip [7].
- Install tensioner [8]11744.
- · Plunger will automatically release during installation.

## NOTE: Ensure arrow on tensioner pointing to the front of the engine.

- · Camshaft sprocket tightening torque:
- · Inlet without variable timing control 137-157 Nm.
- Inlet with variable timing control 127-137 Nm.