

ENGINE MECHANICAL - EM

ZD30DDTi Timing Chain

The mechanical timing system is configured as displayed in the diagram shown right.

As the case with the previous ZD engine, there is only 1 chain & it is driven by the sprocket attached to the Fuel Pump drive gear. The chain then drives a single sprocket which in turn drives the RH camshaft. The 2nd camshaft is driven via an idler gear.

Refer to section EM of the Service Manual for more information on the components shown right.



ZD30DDTi Timing Gears

The Timing Gear arrangement continues in the same format as the previous ZD30 engine.

The Fuel Pump removal procedure has been simplified. The pump needs to have 3 bolts removed from the rear. The Fuel Pump detaches from the engine without the need to remove timing gears etc.

Refer to section EM of the Service Manual for more information on the components shown right.

Refer to Section EC of the Service Manual for information regarding the removal of the Fuel Pump.

Special Notes for the removal of bolts etc. when dismantling the front section of the engine.

1. None of the components (timing gears & chains etc.) in the diagrams shown right need to be removed for the Fuel Pump removal process on the new ZD30 CRD engine. Refer over page for more detail.

2. Please refer to **STB EM 04-005**. It clearly states that you must **NEVER** use an impact gun on any bolts that attach valve train gears etc. to the engine. Otherwise **SEVERE ENGINE DAMAGE WILL RESULT** and it will be at the **REPAIRERS EXPENSE!**



Nissan Zd30 Engine Manual 2003

Clifford Lane



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