

## MECHANICS CHECK LIST

### HELPFUL HINTS FOR FITTING CYLINDER HEADS, SUGGESTED GUIDELINES ONLY

**BLOCK** – Is the block face straight, clean and dry with no oil or residue.

**HEAD GASKET** – Is it the correct one (It is the engine assembler's responsibility to be sure that all parts fitted are correct). Is the gasket fitted correctly?

**HEAD BOLTS** – Should head bolts be replaced? Angle torqued, (or torque to yield), head bolts must be replaced.

**TENSIONING** – Has cylinder head been tensioned or angle torqued correctly and in the correct sequence. Make sure head bolt threads are clean and free. To obtain correct head gasket clamp load be sure to oil threads and bearing surface under head of bolt.

**CLEANLINESS** – Clean cylinder head thoroughly before fitting, is surface thoroughly cleaned?

**ORIGINAL REASON FOR FAILURE** – e.g. Overheating. Has the original reason of the engine failure been rectified?

**QUALIFIED MECHANIC** – A qualified mechanic should carry out all the work.

**RADIATOR** – Checked, flushed, cleaned or recored.

**RADIATOR CAP** – Is it in good order and holds correct pressure.

**THERMOSTAT** – Is it correct type. It should be a new one. Does thermostat close the bypass port at operating temperature?

**AIR TRAPS** – Has all the air been bleed out of the cooling system, with heater left on open circuit.

**INJECTORS & INJECTION PUMP** – Have they been checked, not over fueling and correct timing?

**CAM TIMING** – Is cam timing set to correct position and OEM specification? This will avoid, on some engines, bending valves on start up. Check if applicable, belt or chain tensioners and idler pulley's are set correctly. Do they need replacing?

**TIMING BELTS** – If applicable, should be replaced every 100,000 Kms.

**COOLANT** – To ensure the correct cylinder head performance and service life, it is important to use a top quality coolant / inhibitor solution. However DO NOT had this solution straight away, allow sufficient time for gaskets etc to relax and seal to avoid coolant seepage.

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