

# The Elan Factory - Product Data Sheet



## Ford/Lotus Twin Cam removable water pump

The Elan Factory has remanufactured the Lotus Twin Cam front cover/water pump assembly so that customers can now replace the water pump without first having to remove the cylinder head and front cover. The water pump is now conveniently contained within a removable module. This pump module is easily removed by unfastening three countersunk cap screws and operating three integral extraction screws.

The pump is now available in several configurations. For customers who want the benefits of a removable pump when fitted to a 1500cc cylinder block, should order the standard height front cover. Customers, who wish to build a large capacity engine on a 1600cc cylinder block, should order a tall front cover. For the Twin Cam owner who still wants total originality, there is a front cover/water pump assembly that is a direct replacement for the original Lotus component.

Item #	Product Description	Qty	Part #	Price ex GST
1	Standard back plate to suit 1500 block (701M)	1		\$ 213.65
2	Tall back plate to suit 1600 block (711M)	1		\$ 213.65
3	Standard front cover to suit 1500 block (701M)	1	CO30	\$ 500.00
4	Tall front cover to suit 1600 block (711M)	1		\$ 500.00
5	Dip stick tube	1	ENG115	\$ 5.00
6	Timing chain damper pad - Polymer	1	ENG12	\$ 16.00
7	1/4 UNC x 0.5" C/S screw	2	ENG13	\$ 1.70
8	Crank shaft pulley seal	1	ENG02	\$ 8.65
9	Water pump module	1	C057	\$ 195.00
10	Pump extraction screws	3		\$ 1.35
11	Heater outlet connector	1	CO23	\$ 4.10
12	Drive flange	1	CO11G	\$ 31.80
13	Drive V pulley	1		\$ 32.00
14	5/6 UNC x 0.5"	4		\$ 1.18
15	5/16 spring washer	4		\$ 0.45
16	30mm heavy duty bearing	1	CO25B	\$ 55.00
17	Internal mechanical seal	1	CO25C	\$ 19.85
18	Ceramic button	1	CO11C	\$ 11.95
19	Impellor	1		\$ 27.27
20	O ring	2	CO22	\$ 1.80
21	Alternator mounting plate	1	ENG219	\$ 10.00
22	1/4 UNC x 2.25"	5		\$ 4.09
23	1/4 UNC x 2.50"	2		\$ 4.09
24	1/4 UNC nyloc nut	3		\$ 0.27
25	5/16 UNF x 2.00"	1		\$ 0.82
26	5/16 UNF nyloc nut	1		\$ 0.14
27	1/4 UNC x 250" C/S cap screw	2		\$ 4.09
28	5/16 UNC x 2.50" C/S cap screw	1		\$ 2.05
29	Timing chest top gasket 3.0mm thick * <a href="#">see note</a>	1	ENG63A	\$ 8.75
30	Timing chest top gasket 2.4mm thick * <a href="#">see note</a>	1	ENG63B	\$ 8.75
31	Timing chest top gasket 1.6mm thick * <a href="#">see note</a>	1	ENG63C	\$ 8.75
32	Timing chest alloy spacer 6.0mm thick	1	ENG232	\$ 25.00
33	Timing chest alloy spacer 12.0mm thick	1	ENG233	\$ 27.50

**NOTE:** To improve sealing ability between the top of the front cover and cylinder head, there is now a range of different thickness gaskets to choose from. Gaskets should be determined by trial fitment of the head gasket and cylinder head. The gap between the top of the front cover and underneath the cylinder head face should be measured and a suitable gasket selected. It is recommended that the gasket should be selected to withstand being compressed by approximately 30% without being ruptured or badly distorted.

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For customers who wish to build large capacity engines, there are now two different sized alloy spacer plates available to extend the height of the front cover. Where it is intended that the cylinder block height of a 1600cc block be reduced (to accommodate 77.62mm stroke crankshaft, conrods and TC pistons) then it is recommended a 6mm spacer be used with the standard height front cover. Where it is intended that the full height of 1600cc block to be maintained (to accommodate custom 88mm crankshaft, conrods and pistons) then it is recommended a 12mm spacer is used with the standard height front cover.

Please note, the new front cover is supplied fully machined and can be pre-configured for wet-sump or dry-sump installation at additional cost. We recommend the pump module, plus timing chest be supplied pre-assembled and pressure tested ready for installation at an additional cost of \$65-00 plus GST



### **Information for overseas customers**

Please note all pricing is in Australian Dollars and export orders are exempt from additional taxes (GST = Goods and Services Tax)

For further information regarding all Lotus water pumps, performance products or genuine Lotus products, please phone The Elan Factory on (613) 9761-1903 or fax on (613) 9739-8944. Alternatively you can write to The Elan Factory at 5 Marong Court, Boronia Heights 3155, Melbourne, Australia or e-mail at [elanfactory@optusnet.com.au](mailto:elanfactory@optusnet.com.au)