

# *Lancing Marine*



Get Expert advice from Practical Engineers

## *PriceBook·2017*

Marine Engines, Parts, Gearboxes and Sterngear

# Lancing Marine



## The Lancing Marine Team

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We have been manufacturing, supplying and repairing marine engines, gearboxes and sterngear for over 40 years, and in that time have built up a wealth of knowledge. Our experience and hands-on approach enables us to sort out many installation problems in both new and classic craft.

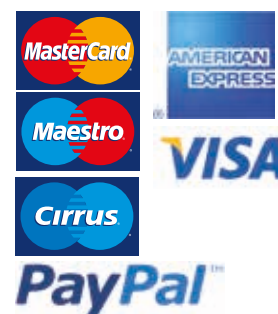
Over the years we have built up the UK's widest stock of marine engineering components, with more than a hundred gearboxes PRM, Borg Warner and ZF in stock at any time. We also offer an in-house, expert transmission repair service, essential to keep commercial and pleasure customers on the water with minimal down time.

Our vast stock includes thousands of Ford and Perkins diesel engine spares, both from original manufacturers' stocks and from after-market suppliers around the World, which gives us a wide source of parts to enable the repair of older engines. We are also the largest stockist of the Bowman heat exchangers, manifolds and oil coolers which are used on many Ford and Perkins engines, dedicated Bowman parts for many other makes, as well as general purpose components for fitting all types of engine.

Another component for which we have recently been appointed the major distributor is the Manecraft Deep Sea shaft seal which we now supply throughout U.K. and to a number of major overseas markets.

**We hope you have a great season's boating.**

Lancing Marine	PROPRIETORS: BELLAMYS (M & A) LTD. Registered: London 384105
TRADE PRICE BOOK 2017	PRICES in this book are valid up till 31-1-2018, except if manufacturers names are stated, then prices may be varied in accordance with changes in makers' lists and exchange rate at the time of order. Errors and omissions excepted. November 2017.
Quantity Terms	Quantity terms are available on boatbuilder prices except where prices are stated as 'Nett'.
Packing & Carriage	Packing and Carriage extra.
V.A.T.	V.A.T. extra on U.K., and private E.C. sales, except Channel Isles & Canary Isles, VAT Registration No. GB 192 732 156.
Terms of Business	All transactions are subject to our own standard Conditions of Sale, copies of which are available on request. Buyers Purchase Conditions not accepted.
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Opening hours	8.30 AM to 5.30 PM, Monday to Friday. Closed on Bank Holidays.



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## Supplied by Lancing Marine

## PRICE LIST FOR "BARE TO FLYWHEEL" ENGINES, FOR GEARBOXES, STERNDRIVES OR JETS

HP range	Max RPM	Model	Description	List Price	Our price	F.P.T. Engine specifications.
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## According to duty

85 to <b>100</b>	2800	N45-100	4-Cyl 4.5 litre N/A	£10,373	<b>£7,987</b>
125 to <b>150</b>	2800	N67-150	6-Cyl, 6.7 litre N/A	£12,680	<b>£9,768</b>
180 to <b>220</b>	2800	N67-220	6-Cyl 6.7 litre TC	£18,008	<b>£13,865</b>
115 to <b>230</b>	3500 to 4000	S30E-230	4-cyl 3 litre TCI	£15,208	<b>£11,709</b>
170 to <b>250</b>	2800	N40E-250	4-cyl, 4 litre TCI	£18,554	<b>£14,274</b>
230 to <b>280</b>	2800	N67-280	6-Cyl 6.7 Litre TCI	£19,334	<b>£14,886</b>
270 to <b>370**</b>	2800	N60E-370	6-Cyl 6.0 litre TCI	£22,704	<b>£17,481</b>
270 to <b>400</b>	3000	N60E-400	6-Cyl 6.0 litre TCI	£24,652	<b>£18,981</b>
350 to <b>450</b>	3000	N67E-450	6-Cyl 6.7 litre TCI	£29,139	<b>£22,436</b>
450 to <b>570</b>	3000	N67E-570	6-Cyl 6.7 litre TCI	£38,756	<b>£29,841</b>

Electronic governor for genset

**£790**

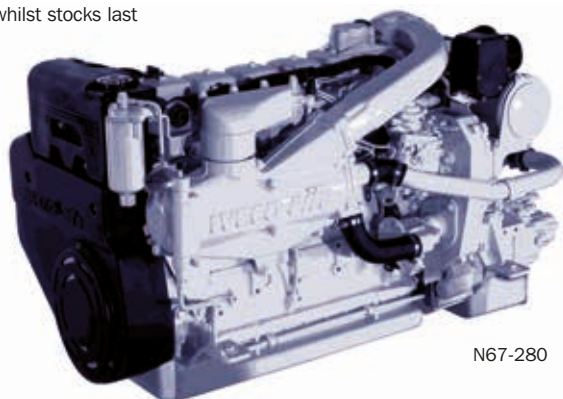
Prices charged will depend on Euro exchange rate at the time of order

\*\* whilst stocks last

Prices quoted are for marinised engines, ready to install, but certain items from the OPTIONS list are essential requirements to ensure safe and reliable operation of the engine, and allow the engine to be registered for warranty. These include Instrument panel and harness (which incorporates certain alarm and safety features), an appropriate exhaust outlet wet or dry, and in the case of electronic engines installation inspection which is charged at £250 per engine, plus travel cost, time and expenses as appropriate.

On mechanical injection engines there is a questionnaire that needs to be filled in by the installation engineer to register the engine for F.P.T. warranty.

All engines will require suitable coupling parts to connect on to the chosen transmission system, and prices for these parts for common gearboxes are shown.



N67-280



N67-150

## OPTIONS

	N45-100	N67-150	N67-220	S30-230	N40E-250	N67-280	N60E-370	N60E-400	N67E-450	N67E-570
Instrument panel with 7M harness, main or 2nd station	£828	£828	£828	£784	£746	£828	£746	£746	£746	£1697
Digital instrument panel with 7M harness					£1,421	£1,421	£1,421	£1,421	£1,421	£800
24V earth return Electrics	Surcharge	£399	£399	£284	—	£124	£349	£124	£124	£124
12v Insulated return Electrics	Surcharge	£1,100*	£1,100*	£909*	— *	£1012*	— *	— *	— *	— *
24V insulated return electrics	Surcharge	£1,143	£1,143	£833	—	£581	£897	£581	£581	N.A.
Charge amplifier and split charger		£273	£273	£273	£273	£273	£273	£273	£273	£273
Charge Split Relay		£50	£50	£50	£50	£50	£50	£50	£50	£50
Exhaust outlet, wet		£365	£365	£531	£770	£531	£531	£531	£531	£531
Exhaust outlet, dry		£242	£242	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
AV Mounts		£294	£294	£294	£185	£294	£294	£294	£294	£294
PTO Pulley		£105	£74	£47	£60	£47	£47	£47	£47	£100
PTO Shaft		£174	£174	£174	£174	£174	£174	£174	£174	£174
Calorifier Connections		£47	£47	£47	£47	£47	£47	£47	£47	£47
Flywheel Drive Plate and housing cover For PRM		£307	£307	£307	£270	£307	£307	£375	£375	N.A.
Flywheel Drive Plate and housing cover For B/W or ZF		£458	£458	£458	£421	£458	£458	£458	£458	£559
Gearbox oil Cooler Kit		£192	£192	£345	£192	£345	£345	£345	£345	£345
Shift Cable connection kit		£54	£54	£54	£54	£54	£54	£54	£54	£54
Dual station speed & shift connection	Surcharge	£89	£89	£89	£89	£89	£89	£89	£89	£89
Boost pressure gauge & hose	Supplied loose			£50	£50	£50	£50	£50	£50	£50
Water feed for Deep Sea seal		£20	£20	£20	£20	£20	£20	£20	£20	£20
Drive belt Guard	F.O.C.	F.O.C.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Intake blockage sensor with alarm, E. or Ins. return		£110	£110	£110	£110	£110	£110	£110	£110	£110
Low pressure fuel sensor with alarm, E.return		£80	£80	£80	£80	£80	£80	£80	£80	£80
Low pressure fuel sensor with alarm, Ins.return		£113	£113	£113	£113	£113	£113	£113	£113	£113

\* Insulation of battery negative from vessel's hull can also be achieved by use of insulating engine mounts. Always use a shaft flexible coupling to complete insulation.



F.P.T. Instrument panel, with alarms



VETUS MP12BS12A - sporting



VETUS MP34BS12A - cruising

## Supplied by Lancing Marine

## PRICE LIST FOR 'BOBTAIL' ENGINES, READY FOR GEARBOXES, STERNDRIVES OR JETS

MAX HP	MAX RPM	MODEL	WEIGHT Kgs	DESCRIPTION	DIMENSIONS L x W x H, mm	LIST PRICE	OUR PRICE
12	3600	M2.13	98	2-CYL 538cc	452 x 494 x 500	£3496	£P.O.A.
16	3600	M2.18	98	2-CYL 635cc	452 x 533 x 500	£3825	£P.O.A.
27	3600	M3.29	123	3-CYL 952cc	535 x 533 x 500	£4779	£P.O.A.
33	3000	M4.35	180	4-CYL 1500cc	660 x 490 x 575	£5400	£P.O.A.
42	3000	M4.45	185	4-CYL 1758cc	660 x 490 x 575	£6195	£P.O.A.
52	3000	M4.56	192	4-CYL 1758cc TURBO	660 x 490 x 575	£6290	£P.O.A.
65	3000	VH4-65	240	4-CYL 2607cc	719 x 643 x 639	£8117	£P.O.A.
80	4000*	VH4-80	245	4-CYL 2607cc	719 x 643 x 639	£TBA	£P.O.A.
140	4000	VF4-140G	237	4-CYL 1910cc TURBO INT	703 x 700 x 685	£12600**	£P.O.A.
190	4000	VF4-190G	248	4-CYL 1910cc TURBO INT	703 x 700 x 705	£13900**	£P.O.A.
250	4000	NF5-250	299	4-CYL 2387cc TURBO INT	820 x 710 x 705	£15700**	£P.O.A.

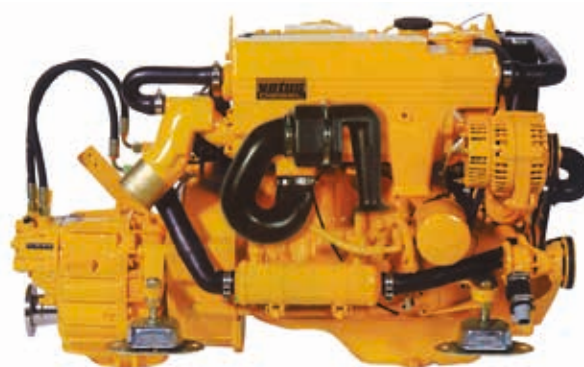
SEE PAGES 38/39 FOR GEARBOXES AND PAGE 43 FOR OTHER SAILDRIVES AND STERNDRIVES.

All standard engines include heat exchanger cooling, 12v starter and alternator, electric stop control, flexible mounts, control cable connections, exhaust injection outlet with temperature alarm, sump pump, gearbox adaptation.

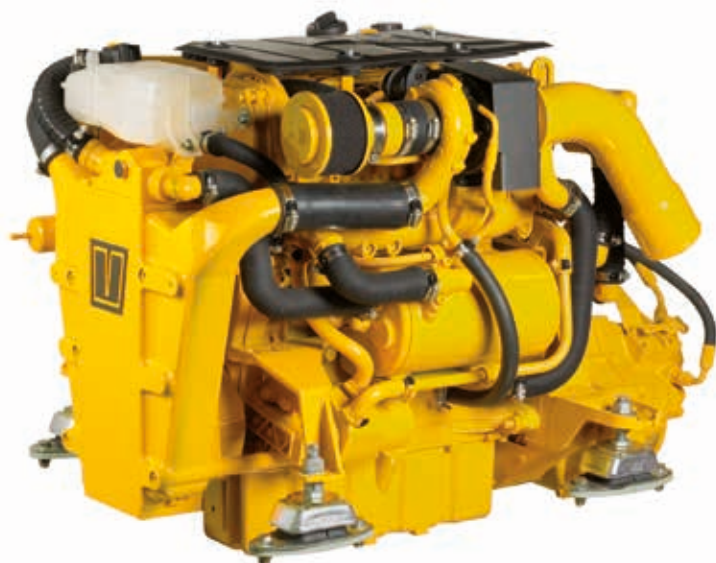
\* Pending introduction of new version \*\* Interface for standard control cable £301



VETUS M3.29



VETUS VH4.65/VH4.80



VETUS VF4.170-190

### INSTRUMENTATION (With harness and senders fitted to engine)

2-cyl &amp; 3-cyl 4-cyl

**Economy.** 156mm x 94mm panel, with heat/start/run switch, 5 warning lights, alarm buzzer and 2M harness (2-cyl only) F.O.C. N/A

**Sporting.** 193mm x 161mm panel, as "Economy", but with Tachometer with hour counter, voltmeter and 4M harness £196 F.O.C.

**Cruising.** 255 x 161mm panel, as "Sporting", but with temperature and oil pressure gauges and senders £390 £249

**Flybridge Sporting.** Additional "Sporting" panel with Y-piece and 4m harness (other lengths available) £381 £381

Extension panel 161mm x 99mm to take 1 or 2 additional 52mm instruments, empty £20 £20

Load split relay set to separate batteries when engine is not running £50 £50  
(Engines are **not** supplied without at least one appropriate instrument set)

### OPTIONS (including fitting to engine, where appropriate)

Sterndrive adaptation kit for Mercruiser, Volvo 280/290, Volvo SX £2262

Mercruiser Bravo 1 sterndrive, with adaptation kit £10742  
(above options suit 140-250HP engines only)

Vetus saildrive for engines up to 80-HP, assembled £2546

Adapter kit to fit Volvo 110S/120S/120SB saildrives £325

Pair of metal braided fuel feed and return hoses, I.W./M.S.A. approved £68

Low pressure pipes and spill pipe connection I.W. 2003 spec. £80

Type 500 fuel filter with drain, clear bowl, recleanable element, connections for non-spill filter change, for 5/16" (8mm) pipe, or 3/8" hose £69

Water feed for Deep Sea seal £20

P.T.O. pulley 2 & 3 cyl £110 4-cyl £130

Dual station speed and shift control connections £89

Keel cooling with dry exhaust connection up to 65HP only, deduct £88

Calorifier connection kit 2-cyl & 3-cyl £110 4-cyl £62



## Supplied by Lancing Marine

## PRICE LIST FOR ENGINES FITTED WITH GEARBOXES

Model	HP	RPM	Gear ratio :1	Weight Kg	Description	Panel	Dimensions L x W x H mm	List	Our Price
1GM	9	3600	2.21, 2.62	86	1-cyl, 318cc	B20	554 x 410 x 485	£3229	P.O.A.
1GM	9	3600	3.22	86	1-cyl, 318cc	B20	554 x 410 x 485	£3279	P.O.A.
2YM	14	3600	2.21, 2.62	113	2-cyl, 570cc	B20	613 x 463 x 600	£4139	P.O.A.
2YM	14	3600	3.22	113	2-cyl, 570cc	B20	613 x 463 x 600	£4189	P.O.A.
3YM	21	3600	2.21, 2.62	120	3-cyl, 854cc	B20	694 x 463 x 600	£4699	P.O.A.
3YM	21	3600	3.22	120	3-cyl, 854cc	B20	694 x 463 x 600	£4749	P.O.A.
3YM	30	3600	2.21, 2.62	133	3-cyl, 1115cc	B20	716 x 462 x 545	£5399	P.O.A.
3JH	40**	3000	2.36, 2.61	185	3-cyl, 1642cc	B20	770 x 518 x 623	£6699	P.O.A.
3JH	40**	3000	2.33A, 2.64A	186	3-cyl, 1642cc	B20	770 x 518 x 623	£6699	P.O.A.
4JH	54**	3000	2.36, 2.61	213	4-cyl, 2190cc	C30	873 x 560 x 625	£8399	P.O.A.
4JH	54**	3000	2.33A, 2.64A	213	4-cyl, 2190cc	C30	873 x 560 x 625	£8499	P.O.A.
4JH4	75**	3200	2.15, 2.70	235	4-cyl, 1995cc, turbo	C30	903 x 616 x 659	£10399	P.O.A.
4JH4	75**	3200	2.14A, 2.63A	237	4-cyl, 1995cc, turbo	C30	903 x 616 x 659	£10199	P.O.A.
4JH4	75**	3200	2.04HA, 2.45HA	238	4-cyl, 1995cc, turbo	C30	903 x 616 x 659	£10599	P.O.A.
4JH4	110**	3200	2.15, 2.70	245	4-cyl, 1995cc, turbo-int	C30	933 x 616 x 659	£12199	P.O.A.
4JH4	110**	3200	2.14A, 2.63A	247	4-cyl, 1995cc, turbo-int	C30	933 x 616 x 659	£11999	P.O.A.
4JH4	110**	3200	2.04HA, 2.45HA	248	4-cyl, 1995cc, turbo-int	C30	933 x 616 x 659	£12394	P.O.A.
4LHA	240 **	3300	2.04A, 2.52A, 2.68A	409	4-cyl, 3455cc, turbo-int	C	1059 x 719 x 789	£19899	P.O.A.
6LP	315**	3800	1.67, 2.13, 2.43	449	6-cyl, 4164cc, turbo-int	C	1220 x 666 x 739	£23799	P.O.A.
** Whilst stocks last									

Engines are fitted with mechanical shift gearboxes unless on engines of 160HP and over or marked (H)hydraulic. A is down-angle output. Gearbox oil coolers are fitted where required.

All engines are fitted with wet exhaust outlets, rubber anti-vibration mounts, connections for engine and gearbox remote control cables, wiring harness and appropriate control/instrument panel, 12V electric start and stop and 125A alternator (90A on 1GM), and all engines up to 4JH have V-belt safety covers. Dimensions and weights given are indicative, and formal documentation should be consulted for confirmed installation fixtures



YANMAR 1GM



YANMAR 4JH

**OPTIONS (Supplied loose)**

Adaptation to existing Volvo-Penta or Mercruiser sterndrive  
 Pair of yellow-sheathed, metal braided fuel hoses, to I.W specification  
 Type 500 fuel filter with drain, clear bowl, recleanable element, for non-spill filter element change, including fittings for either 5/16" (8mm) metal pipe, or 3/8" push-on hose  
 Water feed for Deep Sea seal  
 Connection parts for second-station control cables  
 P.T.O pulley or shaft (not available on all engines)  
 Calorifier connection parts

**Heat exchanger kit to enable fresh water cooling of 1GM10**

**SERVICE PARTS KITS:- See page 15**

**OPTIONS (factory fitted where available)**

P.O.A. Extension wiring harness, 4-10M  
 Hi-rise exhaust elbow  
 £68 Second station Harness  
 Second alternator with smart regulator  
 £69 Upgraded instrument panel  
 £20 PRICES OF ABOVE ON APPLICATION  
 £89  
 £155  
 £30



B20 PANEL



C PANEL



C30 PANEL

## REBUILT ENGINES

### REBUILT ENGINES

YEAR	MODEL	CAPACITY	H.P.	NETT BOAT BUILDER	ASSEMBLY CHARGE
1968-82	2710/2712E	240/254 Cu.In.	70/80	£4648	£850
1974-82	2715E	380 Cu.In.	120	£5621	£950
1982-94	2722E	254 Cu.In.	85	£4818	£850
1982-2010	2725E	380 cu.in.	127	£5921	£950
1982-2010	2726T	360 cu.in.	150T	£5932	£1075
1982-2010	2728TIM	360 cu.in.	200TI	£6126	£1225
1994-2008	27250TO	380 cu.in.	143	£5874	£950

Complete from sump to rocker cover, fitted with crankshaft pulley, flywheel, fuel injection equipment, oil & fuel filters, dipstick and thermostat. NO OTHER external equipment.

Assembly charge includes removal of marinising, etc., from your old engine, fitting, dyno testing and painting. Repair parts and labour costs are not included.

Rebuilt engines are guaranteed for six months (used engines for three) from date of despatch or 500 hours service, whichever is the sooner. We will repair or replace parts, carriage paid in the UK, found to be defective as a result of faulty workmanship, but within our standard terms and conditions of sale, copies of which are available on request. Where a claim is accepted, we do not accept responsibility for removal or refitting of the component nor for work that has to be done on the vessel to gain access thereto. This warranty does not cover consequential loss or damage.

### How to determine which generation of Ford Diesel engine you have. A few answers:-

#### Ford 4D and 6D Trader. 4-Cyl 592E and 6-Cyl 590E.

Built till 1964. Marinised By Parsons, Powermarine and a few others.

1. The fresh water pump inlet is at 9 o'clock
2. The injection pump has a rotating drive coupling between it and the front timing casing.
3. There is a visible drive coupling between the sea water pump and the back of the injection pump.
4. VERY early units have inline exhaust bolts, not two rows.  
After 1964 the tooling was sent to EBRO in Spain and Lehman subsequently marinised a number of the 4-cylinder engines in the 70s & 90s as the 4D220.

#### Ford 2700 Dorset series 4 cyl 2711E, 2712E.

#### Ford 2700 Dorset series 6 cyl 2713E, 2714E, 2715E, 2704ET, 2704ETI.

Built 1964 - 1984 marinised by Sabre, Mermaid, Lehman, Powermarine, Watermota, C.T., Seapower, Lancing Marine and others.

1. Front timing cover is pressed steel, occasionally cast iron.
2. No oil pipe running between injection pump and oil filter housing.
3. Only one port on the fresh water pump, pointing either towards 2 o'clock or 5 o'clock
4. Timing gears and sea water pump gear are angle-cut.

#### Ford 2720 Dover series 4 cyl 2722E.

#### Ford 2720 Dover series 6 cyl 2725E, 2726T.

1. Front timing cover is cast aluminium.
2. There is an oil pipe between the injection pump and the oil filter housing.
3. Most marine/industrial engines have two ports on fresh water pump, though truck origin (Cargo) 6-cylinder engines have 3 ports. Occasionally 2722E has one port.
4. Timing gears and sea water pump gear are straight cut.
5. Drive belts are single V-belt or double V-belts.
6. Exhaust and inlet ports are larger than 2700 series / Dorset engines

#### Ford 6 cyl 2725E, 2726T Otsan build.

#### Ford 2728TIM, Dagenham build, up to 1994.

1. Generally similar to remainder of 2720 series.
2. Have oil pump mounted at the front of the engine behind the crank pulley.
3. Longer sumps 960mm overall length.
4. Otsan engines have 3 port fresh water pumps with single / twin groove pulley up to 1999, flat poly-V 8 groove drive from 2000 onwards..

#### Ford New Holland 10, 40, 60 and 70 series / BSD444, 666, 678.

1. Exhaust manifold is on opposite side of engine to inlet manifold.
2. Engine number is stamped on the bottom of block next to sump line.
3. 10 & 40 series have CAV rotary injection pump.  
60 series has Bosch rotary injection pump.  
70 series has Bosch in-line injection pump.

## USED ENGINES

### USED EX-VEHICLE ENGINES

MODEL	H.P. @ R.P.M.	NETT BOATBUILDER
FORD FSD	65 @ 3500	£3635
PEUGEOT 1900T	85 @ 4000	£4655
CUMMINS 6B	120 @ 2800	£5208
CUMMINS 6BTA	190 @ 2500	£7960

Marinised with all new components, serviced, checked and full power dynamometer tested.



Ford 2700 series, rebuilt

Ford FSD series ex-vehicle, marinised



Peugeot XUD Turbo, ex-vehicle, marinised





Ford cylinder head repair



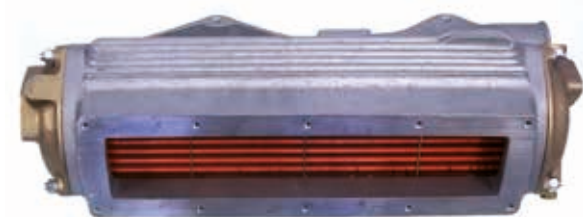
Ford inlet manifold, Dover



Ford inlet manifold, Dorset 2704ET, 180HP



Ford charge air cooler, Mermaid type (see page 10)



Ford air cooler, Sabre type (see page 10)

## BASE ENGINE PARTS

Head complete with valves and springs for Ford 4 cyl 2711E/Dorset	£1150
Bare	£900
Head complete with valves and springs for Ford 6 cyl 2715E/Dorset	£1550
Bare	£1200
Head complete with valves and springs for Ford 6 cyl 2725E/Dover	£1550
Bare	£1200
Gaskets, special, to use Dover manifolds on Dorset N/A engines, or V/V,	pair £35
Leak preventer plates with gaskets to use Dover manifolds on Dorset N/A or Turbo engines or V/V,	pair £112
Manifold, inlet, 2704ET 180HP centre inlet	£134
Manifold, inlet, 2715 Dorset, rear entry, modified for 4-cyl	£214
Manifold, inlet, 2715E 6-cyl Dorset, rear entry	£154
Manifold, inlet, 2725E 6-cyl Dover, rear entry	£154
Manifold, inlet, 2725E Dover, rear entry, modified for 4-cyl	£214
Camshaft centre bearing, FSD, 844F 6262	£32
Casing, timing, for long-sump engines 985T6K010AA	£376
Cooler, oil, 966T 6T641 AA for large filter	£436
Cover, cylinder head rockers, 826F6582BBA	£207
Crankshaft, Turbo engines up to 212HP, 26T6303AAA	£1880
Sump pan, 6-cyl short (890mm for engines with centre oil pump)	£617
Sump pan, long (960mm, for engines with front oil pump)	£870
Sump, Marine, Aluminium, FSD (One Only)	£285
Thermostat housing, plastic, FSD, 924F9K457AD	£56
Timing cover, pressed steel, Dorset, 6059086	£78
Timing cover, Plastic, FSD	£42



Ford FSD thermostat housing



Ford FSD oil filler



Ford air cooler stack



Piston and ring



	XLD 1800	FSD	2712E	2715E	2704ET	2722E	2725E	2726T	2728TIM
Head gasket	£17*	£22	£29	£23	£23	£31	£41	£71	£71
Rocker cover gasket	£11	£6	£15	£21	£21	£10	£15	£15	£15
De-coke set	£38*	£37	£69	£92	£92	£72	£197	£197	£169
Sump gasket set (long/short)	£21	£12	£34	£17	£17	£34	£17/£53*	£17/£53*	£17/£53
Front crank seal	£17	£16	£8	£8	£8	£8	£8	£8	£8
Rear crank seal	£18/£30	£17	£11 (c)	£11 (c)	£11 (c)	£11 (c)	£11 (c)	£11 (c)	£11 (c)
Manifold to head gaskets	£5	£17	£5	£5	£5	£8	£8	£8	£8
Overhaul gasket set (long/short)	£111*	£91	£144	£167	£167	£131	£250*/£304	£250*/£304	£304
Piston ring set per piston	£18	£213(4-cyl)	£49	£49	£50	£50	£50	£77	£77
Piston pin & rings	£98	£139	£116	£116	£248	£182	£182	£267	£267
Main bearing set	£68	£59	£69	£146	£146	£69	£146	£146	£146
Thrust bearing set	£20	—	£12	£12	£12	£12	£12	£12	£12
Big end bearing set	£27	£30	£90	£135	£135	£90	£135	£135	£135
Intake valve (early/late)	—/£8	£18*/£17	£24*/£83	£24*/£83	£24*/£83	£29	£29	£29	£29
Exhaust valve (early/late)	£9*/£17	£18*/£19	£22*/£28	£22*/£28	£22*/£28	£28	£28	£28	£28
Cylinder head bolt set (early/late)	£20*/£26	£30	£185	£267	£267	£78	£120	£120	£120
Cylinder liner, for repair	—	£65	£57	£57	£79 (a)	£57	£57	— (a)	— (a)
Injection pipes, Minmec set (or Bosch)	—	(£85)	£83	£115	£115	£93	£129	£129	£129
Jabsco pump to block gasket	—	—	£4	£4	£4	£4	£4	£4	£4

\*Further information required when ordering this item

(a) chrome £100

(c) fibre type.

Also rubber version £56

Injection pumps, injectors, turbochargers, starters and alternators repaired, exchanged or sold outright against part numbers stamped on old units.

## WATER PUMPS

Dorset, 2 o'clock inlet, pressed-on pulley	£93
Dorset, 5 o'clock inlet, bolt-on pulley (pulley, 1-groove £56)	£88
Dover, 2 o'clock and 5 o'clock inlets, bolt-on pulley (1602421)	£179
Dover, dual inlet + outlet, single vee pulley (6089348)	£168
Dover, dual inlet + outlet, poly-vee pulley	£186
Dover, dual inlet + outlet, 2 groove pulley	£277
Change pressed-on pulley onto new pump	£30
FSD FWP1414	£62
York, 2401E, repair only	£145
XLD 1800 FWP 1465, 72mm rotor	£68
XLD 1600 FWP 1205	£48
XLD 1800 FWP 1736, 79mm rotor	£99
Trader 4D, 6D, 590, 592E, Lehman 4D220 9 o'clock inlet (E15010)	£60

## FUEL LIFT PUMPS

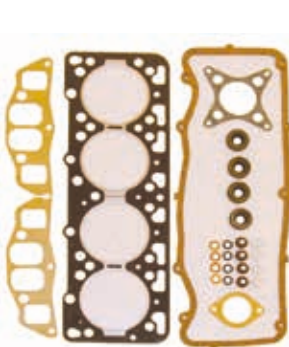
Dorset. Diaphragm type, also Lehman, Dover	£44
Dorset & Dover, Bosch plunger type 0.440.004.067 (while stocks last)	£184
Repair kits for above, for main body and primer	£29
Dover & Otosan, horizontal plunger type	£97

## OIL PUMPS

Centre-mounted for Dorset & Dover Industrial	£292
Front-mounted Dover & Otosan	£443
FSD (LP02282)	£171
XLD1600, OEM 748, 01013102	£89

## NOTES

2704ET engines with chrome liners require a special head gasket. P.O.A.  
All prices are given for standard sized components. Under- and over-sized components are available, though prices may vary.  
Take care with main bearing sizes as some blocks are line-bored over-size.  
Parts also available for other Ford, Perkins and Cummins engines.



Ford 4 cylinder de-coke set



Ford Dorset diaphragm fuel lift pump



Centre mount oil pump,



Otosan dual inlet + outlet, poly-V pump



Dover UK dual inlet water pump



Front mounted oil pump



Dorset 2 o'clock pump



Dorset/Dover injection pipes



XLD Cam belt kit (se page 19)

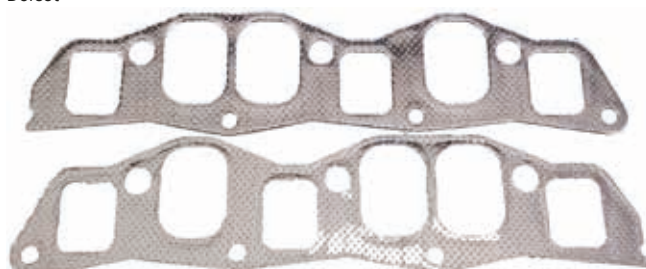


Ford camshaft and bearings

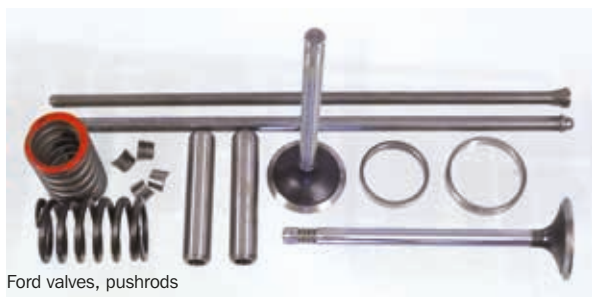
Manifold to head gaskets



Dorset



Dover



Ford valves, pushrods



Ford ring gear and bolts

**FORD PARTS 2700 DORSET / 2720 DOVER**

Banjo, fuel spill	£18
Bearing set, camshaft, 6-cyl (discard 2 for 4-cyl)	£53
Bolt, banjo, fuel spill	£7
Bolt, Flywheel to crankshaft	£10
Bolts, Conrod, pair	£36
Bolts, Ring Gear, set of 6	£30
Breather valve, rocker cover, 866F 6769 AA. N.L.A., hose replacement	£12
Cam Centre Bolt (Short)	£44
Cam Follower	£17
Camshaft, 6-cyl and 12 followers	£363
Cap, oil Filler	£14
Clamp, pair for injection pipes	£7
Core plug set (3 off 41.7mm, 3 off 55.8mm, 1 off 59.8mm)	£72
Cotter, valve, multi-groove, pair	£5
Cotter, valve, single-groove, pair	£6
Dipsticks (413mm long), with sump fitting and tube	£58
Fuel filter, twin element, Dover 6089149 (14mm) or Dorset (½" UNF)	£95
Fuel filter adapter, M14 to 8mm pipe, 1-14211	£6
Gasket Jabsco to Timing housing	£4
Gasket Thermostat to head	£3
Gasket, circulation pump to block	£4
Key, Crank Shaft	£24
Lock Tabs, Crank Bolts, Set 508E6431A	£9
Nuts, long exhaust manifold to head	£1
Reservoir, fuel, 377215 for Cold Start Thermostat	£34
Ring gear, flywheel, 128 Teeth	£127
Screws, rocker cover	£1.50
Seal, injector to head 6114632	£8
Seal, injector nut	£2
Spring, Exhaust Valve, 70.8mm long	£8
Spring, Inlet Valve, 58mm long	£8
Studs, stepped, manifold to head, 46mm long	£8
Valve guide VAG330	£7
Valve stem seals, per 4	£13
Washers, copper for leak off pipe (12)	£6



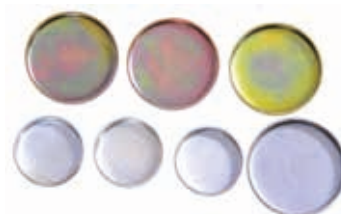
½" UNF x 5/16" tube, nuts and olives



Internal connection for spill pipe



Injection pump relief valve, Dover



Ford core plugs



Injection pump damper, Dover



Ford oil cooler, 2728TIM and OTOSAN



Cold start solenoid, Dover



## FORD 2700 SERIES, DORSET

(Angled cut timing gears, Steel Timing cover, Part numbers starting 693F to 826F)

Bolt, crankshaft centre	£40
Gasket, fresh water pump to block	£5
Gasket, timing cover	£11
Gears, Angle cut for Jabsco pumps 7/8" bore 1:5 taper	£81
Oil filter riser "Telephone"	£125
Pipe, drain, turbocharger, MM1462027 SAB49047	£52
Pipe, feed, turbocharger MM1486950, SAB49048	£106
Pipe, injector, spill, 6-cyl (cut down for 4cyl)	£54
Pipe, oil pick-up	£77
Pulley, crank, 2 groove (Spare groove if single)	£103
Push rod	£28
Spin on oil filter conversion, without oil feed, including filter	£48
Valve cotters single groove, per pair	£5

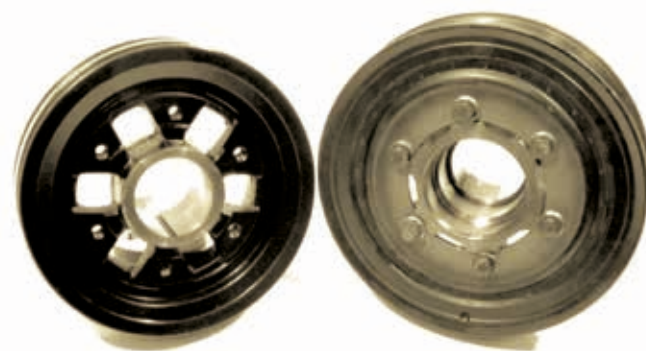
## FORD 2720 SERIES, DOVER, OTOSAN

(Straight cut timing gears, Aluminium Timing cover, Part numbers starting 826F or higher)

Bolts, main bearing cap, pair	£26
Damper diaphragm, fuel pump	£68
Drive belt, flat 8PK 1535LE, T986T8620BB	£49
Filter, oil, large (140mm diameter)	£42
Gasket, cover, timing casing, for long-sump engines,	£11
Gasket, thermostat housing, twin, 813F9K462EAA	£6
Gear, straight cut, for Jabsco pumps 7/8" bore 1:5 taper	£81
Housing, thermostat, twin, 813F9K457EAB	£108
Pipe, fuel filter to Injection ump, M14, 826F9C520EAB	£15
Pipe, fuel, lift pump to filter, M14, 846F8B273EEA	£15
Pipe, Injector spill, 6-cyl (cut down for 4cyl)	£54
Pipe, oil filter housing to fuel injection pump	£33
Pipe, water, front 2725 926T8K524AAA	£28
Piston, with pin and rings, Turbo engines up to 212HP	£181
Pressure relief valve, injection pump	£56
Pulley, crank, 1 groove (front mounted oil pump)	£124
Pulley, crank, 2 groove (front mounted oil pump)	£199
Pulley, crank, flat belt 8 rib (front mounted oil pump)	£168
Push rod	£43
Seat, Exhaust Valve	£17
Seat, Inlet Valve	£20
Solenoid fuel, cold-start, 12V or 24V	£70
Spin on oil filter conversion, with oil feed, including filter	£48
Sump drain plug, 22mm OD coarse thread (no magnet) 113E 6730A	£24

## POWER TAKE-OFFS

Triple-groove P.T.O. pulley, 127mm diameter, A/B section for 2700 and 2720 with 31mm standout from existing crankshaft pulley hub, with studs and nuts.	£155
1/2/3-groove PTO pulley, choice of diameters from 165mm upwards, A-section, close up fitting to existing crankshaft pulley, with bolts, for 2700 series	from £140
similar, for 2720 series	from £130
1 1/4" shaft to bolt to front of existing crankshaft pulley for Ford 2700 and 2720	£158



Ford 2700 & 2720 series crankshaft pulleys



Ford 2700-2720 series dipstick



Ford 2725 long sump (see page 6)



Power take-off pulley

Ford 2700/2720 series PTO shaft.



Helical water pump drive gear



Twin element fuel filter assembly (see page 10)



Oil filter, large



Spill rail, injectors and injector pipes



Push rods

Ford parts are used on C T Marine, Couach, C-Power, Lehman, Econopower, Gustaffson, Mermaid, PowerMarine, Sabre, Thornycroft, Watmota and others.

## MANUALS AND PARTS BOOKS

ENGINE	XLD	FSD	DORSET	DOVER	N100-280	N400&450	EHD	PUMA
WORKSHOP MANUAL, ENGINE SECTION	£20	£20	£20	£20	{ £40	{ £40	{ £28	{ £28
WORKSHOP MANUAL, ELECTRICAL & FUEL SECTION	£10	£10	£20	£20	{ C.D.	{ C.D.	{ C.D.	{ C.D.
QUICK REFERENCE PARTS BOOK	£10	£10	£10	£10	—	—	—	—

# Sabre & Lehman parts for Ford based engines

BOATBUILDER PRICES



2C219 4-cyl Dorset Heat Exchanger



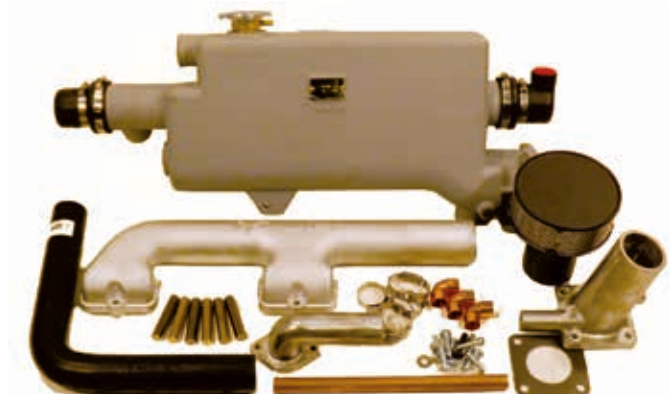
2C212 Oil Cooler



Exhaust outlets



Anodes EM21A and Holder



Remarinisation kit

All engine repair parts are still generally available for the Dover and Dorset series, as well as the 4D220 Ebro engines, together with most of their Lehman marinating parts, although some need to be replaced with alternatives. We can also supply some engine parts for the Peugeot based 4D50 and 4D61, and although almost all of the original marinating parts for these are no longer available, we are able to offer substitutes that convert both of them to more modern systems.

Base engine parts for Lehman Fords are listed on pages 8 - 11.

## HEAT EXCHANGERS

2C218 6-cyl Dorset, 6D363/380, replaces 2C211	£806
2C219 4-cyl Dorset, 4D242/254, replaces 2C213	£586
2C225 6-cyl Dorset Turbo, 6D363	£868
2C239 6-cyl Dover, SP135, replaces 2C232	£624
2C240 4-cyl Dover, SP90, replaces 2C242	£557
2C269, 6-cyl Dover Turbo, SP185/225, replaces 2C246	£892
2C273 6-cyl Dover Turbo Intercooled, SP275	£900
H.D. end cover kit for both ends	3" £30 4" £36

## OIL COOLERS

2C212 12½" long O/A, ¾" oil ports, replaces 2C207, 2C234, 2C237 and 2C244	£124
2C220, 2C243 and 2C245	use Bowman EC100
2C236 15½" long O/A, ½" oil ports, replaces 2C235	£134
2C238 12½" long O/A, ½" oil ports, replaces 2C233	£134
2C272 and 2C274	use Bowman EC120

## EXHAUST MANIFOLD KITS

Exhaust and inlet manifold kit to replace 1A387(N.L.A) on SP135 **	£1490
Turbo fitting kit for SP185 (for SP255 & 275, request advice) **	£495
Re-marination kit with manifold/heat exchanger, inlet manifold & air strainer, exhaust injection outlet & major plumbing parts for Lehman engines	
4D80 £1321 6D120 £1721 SP90 £1385 SP135 £1854	

## SABRE LEHMAN PARTS

Air Strainer to replace 2H75 & 1F7	£69
Anodes EM21A (Pack of 5) (Holder £9)	£15
Belt 2B209	£18
Driveplates, 2L11, 2L12, 2L7, 2L19	4-cyl £129 6-cyl £99
Exhaust Outlet 1A397 (26316) 3½" hose, Dover **	£240
Exhaust Outlet 1A372 (19916) 3" hose, Dorset **	£240
Exhaust Outlet 1A371 (19917) 3½" hose, Dorset **	£240
Exhaust outlet gasket, IC43	£12
Flex Mounts 2M22 (560)	£31
Flex Mounts 2M32 (680) 19875	£31
Header Tank 1A465	**£414
Header Tank, steel replacement for 1A232	£423
Hose, 3K305, 3K503 use G7035 45mm hose elbow	£30
Hose, 3K351, 3K352, 3K786, 3K816, 3K817, 3K818	use 25mm hose elbow G7028 £13
Hose, EW62, EW64, 3K207, 3K207A, 3K209, 3K815	use 25mm hose per 30cm £4
Hose, 3K220	use 32mm hose per 30cm £5
Hose, 3K213, 3K753, 3K2133, 3K2135	use 45mm hose per 30cm £6
Hose, 3K507 £15, special VIP	£78
Hose, 3K824, 6135883 use P37857119 or S16128	£29
Hose, 3K215 2" x 2" turbo hose	£10
Hose, 3K826 use 6" of 45mm hose with clamped in ½" x 19mm brass hosedetail	£20
Hose, 3K823 use 22mm F&F elbow & M&F elbow with twin 1" x 2" hoses	£8
Hose, Sabre 16000/16128 33mm x 44mm elbow	£38
Hose, Sabre 16010/16143 33mm x 44mm straight 3K824	£29
Hose, Sabre 16134/16050 bent elbow MM1718084	£35
Hose, Sabre 16160 LM	£26
Jabsco pump 2C48 (If replacing 2C45 needs Gear 2C49 £81)	£330
Oil filter Spigot to allow 2N53 in place of 2N250	£25
Thermostat assembly and hose to replace 2C250 (incl. 2 hoses for Sabre £227)	£197
Engine circulation pump E15101 for 4D220	£65
Engine circulation pump for Peugeot based engines	repair only £145
Oil filter 2N53 LM	£15
Nut, conrod, 117782ES	£18
Thermostat, Mermaid 3-2720759/Sabre for 11012	£135
Charge Air Cooler O ring for above. Mermaid 2720196/Sabre 49114	£6
Charge Air Cooler Casing only	£925
Charge air cooler core for SP275	** £945
Charge Air Cooler complete for Ford 2728TIM, Mermaid 2720195,	£1351
Charge Air cooler for Sabre 49110/18014	£1192
Charge Air Cooler Tubestack only. Mermaid 2720497/Sabre 49111/ 18013	£523

\*\* whilst stocks last



**Part No.** **For turbocharged Ford engines see page 20**

**#**  
**STANDARD HP/RPM (APPROX)**

**FORD 4-CYL**  
**2701-12E**  
**D-Series**  
**74 e**  
**68-80@2500**

**FORD 4-CYL**  
**2722E**  
**Cargo**  
**94 e**  
**85@2600**

**FORD 6-CYL**  
**2703-15E**  
**D-Series**  
**76 e**  
**106-120@2500**

**FORD 6-CYL**  
**2725E**  
**Cargo**  
**96 e**  
**127@2600**

**FORD 4-CYL**  
**XLD1600/1800**  
**Escort/Fiesta**  
**19/13**  
**40/50@4000**

**FORD 4-CYL**  
**FSD2500**  
**Transit**  
**29**  
**70@4000**

### BASIC MARINISING COMPONENTS

02	Oil cooler, connections & pipes	(x)	£304 g	£313	£306 g	£359 g	£191 f/£298	£198
03	Jabsco water pump, mount and drive		£305 a	£386	£305 a	£386	£272/£273	£283
05	Manifold/header tank/heat exchanger		£880	£880	£1276	£1164	£483 m	£612
	Bowman part no.		FM450	FM452	FM660	FM662	FM180	FM240 h
06	Manifold outlet with water connection (size)		£74 (3")	£74 (3")	£74 (3")	£74 (3")	£79 (2")	£79 (2")
07	Hose & connection kit (inlet size mm)		£135 (28)	£155 (28)	£137 (28)	£293 (28)	£163/£170 (22)	£215 (22)
08	Heat exchanger mount bracket(s)		£8	£8	£12	£12	–	–
09	Hose clip kit		£30	£30	£30	£50	£34	£59
IND	Marinising kit using the above components		£1738	£1846	£2140	£2338	£1222/£1337	£1446
KK	Keel cooled marinising kit comprising 05(KK), 07, 08, 09 & 44		£1094	£1114	£1479	£1555	£761/£768	£954



Ford 2712 marinising kit



Ford FSD marinising kit



Ford XLD marinising kit

### FLYWHEEL CONNECTIONS, BELL HOUSING & REAR MOUNT BRACKETS, AS REQUIRED (BACK END KIT)

15	for Enfield or Sonic (r) sterndrive	–	–	–	–	£370 q	£264
18	for Borg Warner 71, ZF25 & 25A, Paragon PM & Techno 345A gearboxes	£456 c	£456 c	£446 c	£446 c	£328/£323	£389
19	for ZF5M-15M, PRM 120/150 & Techno 60 gearboxes	–	–	–	–	£326/£321	£376
20	for P.R.M. (260 for 4 cyl, 500/750 for 6 cyl)	£464 c	£464 c	£463 c	£4613 c	£359/£354 k	£378
31	for P.R.M. (500/750 for 4 cyl, 1000 for 6 cyl)	£473 c	£43 c	£495 c	£495 c	–	–



Ford 2700/2720 series back end kit



Ford 2700 mounts and rubbers



Ford XLD back end kit



Ford FSD front mounts and rubbers



Ford FSD back end kit



Ford XLD front mounts and rubbers

### OTHER COMPONENTS

38	Front mount brackets & front & rear mount rubbers	£268 n	£271 n	£268 n	£475 n	£180	£231
39	Air intake strainer	£35	£64	£35	£64	£86/£256	£50 h
40	Manifold outlet with flex connection for dry exhaust	£129	£129	£152	£152	£129	£129

#### NOTES

- a Use brake pump drive gear, £81, if required.
- c If heavy flywheel £23 extra. If for 4:1 reduction £21 extra.
- e Requires modification of original truck sump and pick up £230, or if originally an upright D-series engine, change of water pump £93.
- f Requires change of oil filter to short one from Escort/Cortina
- g Includes replacement "Spin-on" filter assembly.
- h Modify air intake duct on 80ps engines £130

- k Requires gearbox input shaft to be shortened by 30mm £35
- m Blanking cover kit for vacuum pump aperture £62
- n Includes alternator re-mounting parts.
- q Fit to flywheel £30.
- r Extra flexible coupling required for Sonic drive £47
- x Oil cooler may be deducted if operating speed required is less than 75% of maker's maximum

## Cummins marinising

## BOATBUILDER PRICES

Part No.		CUMMINS 4B INDUSTRIAL 101	CUMMINS 6B INDUSTRIAL 103	CUMMINS 6C INDUSTRIAL 105	CUMMINS 4BT/BTA TURBO 102	CUMMINS 6BT/BTA TURBO 104	CUMMINS 6BTA-A TURBO/INT 114	CUMMINS 6CT/CTA TURBO/INT 106	CUMMINS 6CTA-A TURBO/INT 112
	STANDARD HP/RPM (APPROX) #	80@2800	120@2800	160@2800	100/116 @2500	153/177 @2500	235 @2500	216/234 @2200	230/290 @2500

## BASIC MARINISING COMPONENTS

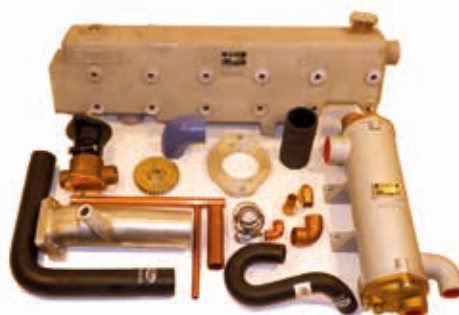
03	Water pump, mount and drive	£412	£412	£412	£412	£412	£412	£699	£699
01	Exhaust manifold	£1350 (y)	£633 (y)	£998	£1350 (y)	£633 (y)	£631 (y)	£998	£998
	Bowman part no. (LM suffix is not Bowman)	CM402LM	CM600	—	CM402LM	CM600	CM600	—	—
04	Heat exchanger	—	£433	£489	—	£433	£505	£659	£815
	Bowman part no.	—	CB120	FH300	—	CB120	CB140	FH400	GH200
06	Manifold outlet with water connection (size)	£125 (3")	£125 (3")	£184 (4")	£193 (3")	£306 (4")	£248 (4")	£306 (4")	£269 (5")
07	Hose & connection kit (inlet size, mm)	£258 (28)	£258 (28)	£268 (28)	£166 (28)	£258 (28)	£289 (28)	£287 (32) u	£287 (32)u
08	Heat exchanger mount bracket	—	£21	N/A	—	£21	£32	N/A	N/A
09	Hose clip kit	£44	£44	N/A	£44	£44	£73	N/A	N/A
IND	Marinising kit using the above components	£2189	£1926	£2351 u	£2165	£2107	£2190	£2949 u	£3068

## ADDITIONAL PARTS FOR TURBOCHARGED ENGINES

21	Turbocharger heat shield	—	—	—	£112	£112	£112	£112	£112
22	Charge air cooler	—	—	—	—	—	£466	—	£652
24	Air ducts and hoses	—	—	—	£135	£135	£120	£120	£199
27	Manifold/turbo adapter	—	—	—	—	—	—	£64	£64
28	Turbocharger feed & drain pipes	—	—	—	£34	£34	£110	£66	£66
A	Total, additional parts using the above components	—	—	—	£280	£281	£851	£296	£1093
IND+A	Total parts needed for turbo base engine	—	—	—	£2445	£2388	£3041	£3245	£4161
15+17	Watercooled turbocharger with kit alterations	—	—	—	—	—	—	£1045	£1045



Cummins 4B, 4BT, 6B, 6BT, 6BTA, 6C, 6CTA O.E. Style Exhaust Manifolds



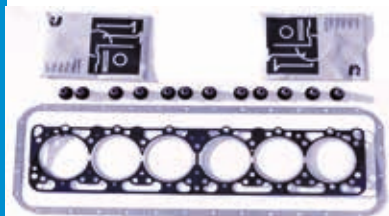
Cummins 6B Marinising kit



Cummins back end kit and front mount brackets

## FLYWHEEL CONNECTIONS &amp; HOUSING COVERS, AS REQUIRED (BACK END KIT)

18	for Borg Warner, Paragon, SternPowr & ZF 45A – 80	£445	£459	£462 w	£459	£465	£749 w	—	—
20	for P.R.M. (260 for 4B, 500/750 for others)	£456	£498	£501 w	£498	£503	£483 w	£501 w	£501 w
31	for P.R.M. (500/750 for 4 cyl, 1000 for 6 cyl)	£487	£535	£501 w	£536	£536	£480 w	£501 w	£501 w
32	for ZF 220 & 280	£414 d	£428 d	£433 d	£428 d	£433 d	£493 dw	£493 dw	£493 dw



6B &amp; 6BT Cummins gasket set £230



Cummins front mount brackets



CM402LM Manifold/header tank/heat exchanger



Cummins heat exchanger

## OTHER COMPONENTS

38	Front mounted brackets & front & rear mount rubbers	£276	£276	£169 d	£276	£276	£276	£169 d	£169 d
39	Air intake strainer	£64	£64	£87	£50	£35	£87	£40	£87
40	Manifold outlet with flex connection for dry exhaust	£128	£148	£230	—	—	—	—	—

## NOTES

- d brackets not included    u Part kit only    w parts are for SAE2 flywheel housing. If SAE3, use parts from #104  
y Original equipment replacement manifolds also available, £760 for 4B, BT, £890 for 6B, BT, £998 for 6C, CT. but these are not suitable for these kits.



Part No.	For turbocharged Perkins engines see page 20	#	PERKINS 4/99 197 & 8 Light vans 99	PERKINS 3-152 52	PERKINS 4-236 36	PERKINS 4-CYL PHASER 110 y	PERKINS 6-354 54	PERKINS 6-CYL PHASER 108 y
		STANDARD HP/RPM (APPROX)	35-40@3500	47@2500	75@2500	80@2600	110@2600	120@2600

BASIC MARINISING COMPONENTS								
02	Oil cooler, connections & pipes	—	—	£247 g	—	£247 g	—	—
03	Jabsco water pump, mount and drive	£275	£275	£409	£472 q	£222 a	£472 q	—
05	Manifold/header tank/heat exchanger	£525	£528	£775	£775	£1019	£1039	—
	Bowman part no.	PE180	PE3152	PE390 x	PE390 x	PE580 x	PE1006 x	—
06	Manifold outlet with water connection (size)	£80 (2")	£80 (2")	£74 (3")	£74 (3")	£74 (3")	£74 (3")	—
07	Hose & connection kit (inlet size mm)	£138 (22)	£47 (22)	£216 (28)	£216 (28)	£227 (28)	£148 (28)	—
08	Heat exchanger mount bracket(s)	—	—	N/A	£126 u	N/A	N/A	—
09	Hose clip kit	£30	£21	£42	£50	£44	£47	—
IND	Marinising kit using the above components	£1048	£951	£1763	£1713	£1833	£1780	—



Perkins 4108 marinising kit



Perkins 6354 marinising kit

FLYWHEEL CONNECTIONS, BELL HOUSING & REAR MOUNT BRACKETS, AS REQUIRED (BACK END KIT)								
18	for Borg Warner, Paragon, SternPowr & ZF 45-80	£518 c	£445 p	£746 v	£445 p	£736 w	£459 p	—
19	for ZF5M-15M, PRM 120/150 & Techno 60 gearboxes	£551 d	£423 p	—	—	—	—	—
20	for P.R.M. (260 for 4 cyl, 500/750 for 6 cyl, 1000 for 6 cyl)	—	£456 p	£637 w	£456 p	£641 w	£657	—
31	for P.R.M. (500/750 for 4 cyl, 1000 for 6 cyl)	—	—	£640 w	£484 p	£655 w	£536 p	—



Perkins 4-108 back end kit



Perkins 4-108 front mount brackets & rubbers



Perkins 6-354 front mount brackets & rubbers Perkins 6-354 back end kit & mounting kit

OTHER COMPONENTS								
38	Front mount brackets & front & rear mount rubbers	£190	£328	£280	£271	£271	£271	—
39	Air intake strainer	£41	£41	£41	£35	£64	£35	—
40	Manifold outlet with flex connection for dry exhaust	£128	£128	£129	£129	£152	£151	—

NOTES			
a	Uses truck brake pump components. Alternative available £95 if required for industrial engines	p	Requires SAE flywheel housing.
c	If Ford Transit type engine fit to flywheel £50.	u	Part kit only.
d	If Ford Transit type engine £50 extra plus fit to flywheel £50.	w	If engine is already fitted with SAE3 flywheel housing, use part from engine 110 & 108. Engines with 'Agricultural' cylinder blocks need special adaptor, £445, as well.
g	Includes replacement "Spin-on" filter assembly.	x	Inlet manifold may require modification or replacement.
o	Owing to variations in engine designs, extra components may be required.	y	Not for cross-flow engines



4-108 fresh water pump



12 volt thermostart



Spin-on oil filter conversion assembly



3720-200 raw water pump for 4-108



Perkins 4-236 manifold replacement kit



Perkins T6-354 turbo exhaust manifold



Perkins 4-108 complete gasket set

	4-107	4-108	4-236	6-354	T6-354
Head gasket	£37	£17	£39	£34	£34
Rocker cover gasket	£8	£8	£18	£17	£17
Cylinder head gasket set	£52	£76	£112	£136	£136
Conversion gasket set incl. seals	£76	£69	£61	£62	£62
(makes head set into this overhaul set)	£128	£145	£173	£198	£198
Front crank seal	£8	£8	£15	£12	£12
Rear crank seal	£19	£19	£43	£37	£37
Piston ring set, per piston	£52	£15	£53	£39	£39
Piston pin & rings	£119	£145	£147	£118	£118
Main bearing set	£48	£40	£56	£131	£131
Thrust bearing set	£14	£14	£13	£13	£13
Big end bearing set	£50	£50	£26	£39	£39
Intake valve	£11	£11	£9	£9	£9
Exhaust valve	£20	£20	£12	£15	£15
Cylinder liner	£91	£64	£91	£44	£44

Engine serial numbers needed with order. Prices may vary.

#### OTHER PARTS FOR PERKINS DIESEL ENGINES

Conversion kit to alter 4-107 or 4-108 from raw watercooled to heat exchanger system, #99-37	£887
Fresh water pump and pulley for 4-108	£114
Fresh water pump 4-236. with single groove pulley	£64
Kits to re-marine where original exhaust manifolds are now no longer available	
4-108 - £772; 4-236, early - £1175; 4-236, late - £1109	6-354 - £1389
6-354 with combi inlet and exhaust manifold headertank/heatexchanger	£1795
T6-354 with combi inlet and exhaust manifold headertank/heatexchanger	£2955
EC140 cooler and parts to replace original cylindrical cooler on 4-236	£615
Exhaust injection outlet for 4-108 5 stud manifold	£108
Spin-on oil filter conversion with filter element	£48
Header tank spacer block & bolts for new type FH410	£30
90° Turbo outlet bend, segmented	£130,
smooth flow	£110
One piece, custom made exhaust injection outlet for T6-354, to replace original 2-piece type	£395
Adaptor Manifold to Turbo for HT6-354 (OEM cast number 37766600)	** £566
Aftermarket adaptor Manifold to Turbo, HT6-354 (includes Holset Turbo adaptation)	£335
Similar for T6-354 upright	£195
Original Perkins colour paint	1 litre £20,
	5 litres £50

\*\* whilst stocks last

90° segmented bend, turbo adapter replaces Perkins 37762103



T6-354 and HT6-354 manifold to turbocharger adapters



For starter motors, alternators & turbochargers read part numbers from existing components for competitive quotation. See also pages 29 & 33. When placing orders for Perkins parts it is essential that engine serial number, found on cylinder block close to injection pump mounting, is quoted. Prices are indicative



Cylinder heads complete with valves and springs 4-107 & 4-108 **	£985
Header Tank Plastic body only for Perkins M130 to M300 34136	£120
Cap for above 34150	£24
Fuel lift pump Perkins 4-108 4 bolt flange ULPK0014	£24
Fuel lift pump Perkins 6-354 4 bolt flange ULPK0002	£36
Exhaust manifold T6-354 water cooled (OEM part number ZZ90054)	£895
Stud and gasket kit for above	£95
3-bolt manifold water outlet plate & hose connection for above	£62
Exhaust outlet Perama M30, Perkins 135616660, Volvo MD2030	£205
Exhaust outlet M50, Perkins 4133Y023, Volvo MD22L Perkins 861574	£145
Water connection 2 bolt flange for above 3764A092	£54
Exhaust outlet casting only for Perkins M90 & M92 37765461	£145
Fresh water pump Perkins 6-354.4 PerkinsU5MW0130	£154
Fresh water pump Perkins M130, Perkins E018 U5MW0156/9	£89
6-354 original 9990-41 Jabsco sea water pump	£330
Thermostart 2666103 electric fuel valve and igniter coil, 12v or 24v	£14

Quote Perkins engine number when ordering to ensure full parts compatibility.



6-354 water pump

M130 water pump



6-354 and 4-108 lift pumps



Plastic header tank



4-236 heat exchanger replacement kit, EC140, page 16



Perkins outlets

## Martec fresh water cooling kits

NETT PRICES

We can supply various fresh water cooling kits to convert a wide range of marine engines diesel and petrol engines from raw water cooling to heat exchanger, fresh water cooling. This has an advantage of allowing the installation of a calorifier into the system for hot water. The systems are of a compact design suitable for most existing engine compartments.

Volvo V6 - V8 petrol up to 1993 901-V-104	£1092
Mercuriser petrol 3.0 litre 1968 on 901-MC301	£942
Mercuriser petrol 4.3, 5.0, 5.7 litre 1985 -1995 901-MC302	£1197
Volvo 2001 901-1020	£602
Volvo 2002 901-1021	£624
Volvo 2003 901-1022	£661
Yanmar 1GM, 901-1113	£602
Yanmar 2GM 901-1114	£602
Yanmar 3GM 901-1117	£661

Check engine model, photographs of the engine may help determine kit type.  
Many more kits are available.



Martec cooling kit

### YANMAR SERVICE KITS

Kits contain the following components suitable for the designated engine(s)

YEU/SK 001	1GM	£29	YEU/SK 007	3JH3, 3JH4	£45
YEU/SK 002	2GM, 3GM	£33	YEU/SK 008	4JH, 4JH2	£85
YEU/SK 003	2GM, 3GM (F)	£46	YEU/SK 009	4JH2-UTE	£120
YEU/SK 004	3HM	£46	YEU/SK 010	4JH3-E, 4JH4-E	£45
YEU/SK 005	2YM, 3YM	£32	YEU/SK 011	4JH3/4-TE/HTE/DTE	£66
YEU/SK 006	3JH2	£88	YEU/SK 012	4JHAE	£45

## Marinising parts BMC, Gardner, Rover

## BOATBUILDER PRICES

Part No.	#	B.M.C. 1.5 & 1.8 J4 VAN 15/18 Standard HP/RPM (Approx)	ROVER MONTEGO MAESTRO 37 50@4000	B.M.C. 2.2 & 2.5 TAXI, LD VAN 25 40/50@3000	CHEVROLET V-8 6.2 LITRE 85 160@3800	GARDNER 6LX/LXB 6-CYL 82/83 150/170@1700	8LXB 6-CYL 84 230@1700
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## INDIRECT COOLING AND MARINISING COMPONENTS

03	Jabsco water pump, mount and drive	£275	£275	£272	£395	£270	£270
05	Manifold/header tank/heat exchanger	£541	£904 jj	£539	£1161 jj	£489 d	£659 d
	Bowman part no.	BL180	—	BL250	—	FH300	FH400
06	Manifold outlet & water connection for exhaust hose (size)	£80 (2")	— (2")	£780 (2")	£332 each (3")	£214 (3½")	£313 (3½")
07	Hose & connection kit (inlet size, mm)	£43 (22)	£175 (22)	£43 (22)	£291 (32)	£363/£373 (32)	£450 (32)
08	Heat exchanger mount	—	—	—	— h	£205	£205
09	Hose clip kit	£25	£60	£36	£52	£33	£33
IND	Marinising kit using the above components (if for use with jet-pump, deduct item 03)	£964	£1414	£970	£2563	£1574/£1584	£1930



BMC 1.5 marinising kit



Gardner marinising kit

## FLYWHEEL CONNECTIONS, BELL HOUSING &amp; REAR MOUNT BRACKETS, AS REQUIRED (BACK END KIT)

15	for Enfield or Sonic (a) sterndrive	£331 r/£163 r	£388	£331	—	—	—
18	for Borg Warner 71, ZF 25 & 25A, Paragon PM & Techno 345A gearboxes (g)	£341 w	£367 f	£338	£395 w	—	—
19	for ZF5M-15M, PRM 120/150 & Techno 60 gearboxes	£339 w	£333 f	£343	—	—	—
20	for P.R.M. 260 gearbox (500 for 6-cyl)	£340 w	£443 f	£339	—	—	—
31	for P.R.M. 750 & 1000 (1500 for 8 cyl)	—	—	—	—	£820	£850



BMC 1.5 back end &amp; front mounting kit



Gardner back end kit



Mercedes 603 back end

## OTHER COMPONENTS

38	Front mount brackets & front & rear mount rubbers	£273/£243	£221 v	£257	£227	£343	£343
39	Sports air cleaner/strainer/intake assembly as required	£41/£25	—	£41	—	—	—
02	Oil cooler assembly (x)	£214 j/£65 f	£210	£214 j	£224	£305/£287	£302

## NOTES

- a Extra flexible coupling required for Sonic £47.  
d Manifold not included.  
f Additional/different components may be required dependent on origin.  
g Requires ZF/Borg Warner adaptor for ZF 25M & 30M £86.

- h Bracket not included.  
j Includes conversion to "Spin-on" oil filter.  
l Modify inlet manifold if side entry £150.  
q Fit to engine £30.  
r Bell housing not required.

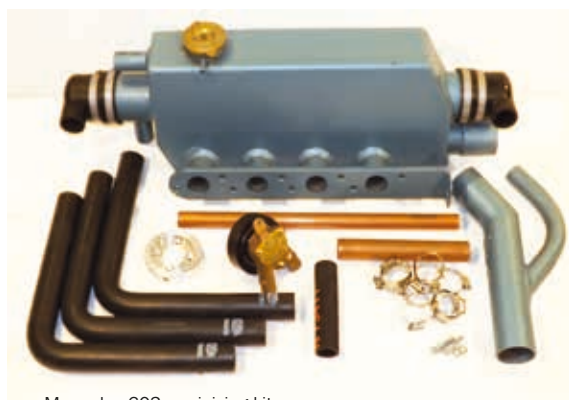
## Other engines for which partial or complete kits are available:-

Ford crossflow and OHC Petrol; Ford V-4 & V-6; Chevrolet & Ford V-8 Petrol; Rover V-8; Jaguar XK & V-12; Perkins 4-154; Mercedes 300D;



Part No. #	MERCEDES 180 OM 636 63 40@3300	MERCEDES 190 to 240 OM 321/615/616 61 45-60@4000	MERCEDES SPRINTER OM 601 68 65@4000	MERCEDES SPRINTER OM 602 70 85@4000	MERCEDES SPRINTER OM 603 (z) 72 100@4000	PEUGEOT XUD 7/9 205 41 50/55@4000	PEUGEOT XD2/3 404/505/SIERRA 21 50-70@4000	V.W. 15/1600/1900 GOLF 87 40-55@4000
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03	£275	£272	£272	£272	£272	£275	£272	£275
05	£824	£680 l	£1019	£1091	£1175	£598 jj	£898 y	£541 **
	MB180	MB220	—	—	—	—	PG210LM	VW150
06	£81 (2")	£80 (2")	£68 (2½")	£68 (2½")	£68 (2½")	— (2")	£86 (2")	£78 (2")
07	£79 (22)	£118 (22)	£56 (22)	£56 (22)	£56 (22)	£178 (22)	£185 (22)	£107 (22)
08	—	—	—	—	—	—	—	—
09	£25	£18	£23	£23	£23	£38	£56	£42
IND	£1284	£1162	£1438	£1510	£1594	£1089	£1497 f	£1043



Mercedes 603 marinising kit



Peugeot XUD marinising kit

15	£120 hq	£119 hq	—	—	—	£121 hq	£380	£497 bb
18	£289	£347	£393	£439	£439	£447 q	£409 ff	£481 bb
19	£291	£348	£435	—	—	£446 q	£441 ff	£479 bb
20	—	£348	£516	£545	£561	—	£403 ff	—
	—	—	—	—	—	—	—	—



Mercedes front mount brackets



Peugeot front mount brackets and rubbers



Peugeot XUD back end

38	£204	£246	£291	£291	£291	£302 w	£221	£260
39	£41	£41	£41	£41	£41	£35	—	£41
02	—	£78 f	—	—	—	£209 q	£191 q	£164

### NOTES

- v Includes alternator mount.
- w Flywheel weight pad required on 1.8, £159, and 6.2, £293 .
- x Oil-cooler required if speed is over 75% of maker's maximum.
- y May require modification to alternator mount.
- Includes air cleaners.
- z Some items apply to 606. Request information.

- bb Requires Passat starter 068.911.023.LX and flywheel 056.105.269.HX, except with Hurth 100, but extras required.
- ff Only housing available for 404 is B/W facing £398 extra.
- Adaptors available for PRM, Techno and ZF types 12-30.
- jj Manifold and heat exchanger are separate units.
- \*\* whilst stocks last

VW 2400 Diesel, Land Rover 2¼ & 2½, BMC 3.4 & 3.8, Bedford 220, 330, 466 & 500, Ford 4D & 6D, Mercedes V6 - V12.



02



03



05



06



07



09



15



18



38



39

# Marinising turbocharged diesel engines

## BOATBUILDER PRICES

Part No.	BASIC ENGINE	FORD TRANSIT		FORD D-SERIES 6-CYLINDER		FORD CARGO 6-CYLINDER	IZUSU TROOPER	PEUGEOT XUDT
		FSD	FSD	145	180	160	2.8 y	1900
		95	125	10	15	12	99	93
		TURBO BOOST PRESSURE lbs	12	15	10	15	15	10
		MAXIMUM R.P.M	4000	4000	2500	2450	3800	4300
		#	24	34	77 e	78 e	48	43

### BASIC MARINISING COMPONENTS

02	Oil cooler, filter mounts & connections	£198	£198	£306 j	£306 j	£149 l	—	—
03	Jabsco water pump, mount and drive	£283	£402	£276 a	£276 a	£357	£275	£275
04	Heat exchanger, header tank	—	—	—	£856	—	—	£351
	Bowman part no.	—	—	—	FH420B	—	—	EH200
01	Exhaust manifold	—	—	—	£1058	—	—	—
05	Manifold/header tank/heat exchanger	£579	£579	£1276	—	£1164	£482	—
	Bowman part no.	FM242	FM242	FM660	—	FM662	IS277	—
06	Turbocharger outlet & water connection (size)	£252 (3")	£243 (3")	£250 (3")	£306 (4")	£306 (4")	£208 (3")	£243 (3")
07	Hose & connection kit (inlet size mm)	£215 (28)	£233 (32)	£183 (28)	£311 (28)	£292 (28)	£115 (28)	£377 (28)
08	Heat exchanger mount bracket	—	—	£12	N/A	£12	—	—
09	Hose clip kit	£59	£63	£61	£100	£67	£47	£47
IND	Marinising kit using the above components	£1586	£1520	£2364	£3213 u	£2347	£1172	£1293

### OTHER COMPONENTS

21	Turbocharger heat shield	£81	£81	£112	£112 z	£112 z	£81	£91
22	Charge air cooler	—	£512	—	£769	—	—	£365
	Bowman part no.	—	FC120	—	2934-3	—	—	EC140
23	Charge air cooler mount	—	£66	—	N.A.	—	—	£46
24	Air ducts & hoses	£192	£130	£89	£271	£70	£39	£145
25	Inlet manifold	—	—	—	£134	£154	—	—
26	Turbocharger Modification kit	—	—	—	£68	—	—	—
27	Manifold to turbocharger adaptor	£93	£117	£187	—	£205	£59	—
28	Turbocharger feed & drain pipes & hoses	£57	£94	£65	£72	£64	£48	—
29	Modification parts for injection pump and injectors with injection pipes and modification of pistons, as required	—	—	—	— t	—	—	—
A	Total additional kit using the above components	£423	£1020	£453	£1428	£605	£327	£647
I+A	Total parts needed for turbo base engine	—	—	£2817	£4641	£2952	£1452	£1940
16	Turbocharger, air cooled	£579	£779	£562	£502	£502	—	—
17	Alteration to 'IND' and 'A' to use turbo 16	£116	£116	£86	£86	£25	—	—
I+A+T	Total parts needed if using Part Nos. 15 or 16 (v)	£2704	£3419	£3465	£5229 u	£3479	—	—

### FLYWHEEL CONNECTIONS, BELL HOUSING & REAR MOUNT BRACKETS, AS REQUIRED (BACK END KIT)

18	for Borg Warner, Paragon, SternPowr & ZF 45A – 80	£389	£389	£446 c	£446 c	£446 c	£541	£501 b
20	for PRM 500/750 (PRM 260 on Transit, Escort & Peugeot)	£378	£328	£463 c	£463 c	£463 c	—	—
31	for PRM 1000	—	—	£509 c	£509 c	£495 c	—	—
32	for ZF 220 & 280	—	—	£628 c	£628 c	£628 c	—	—

### OTHER COMPONENTS

38	Front mounted brackets & front & rear mount rubbers	£231	£231	£268 n	£268 n	£481 n	£160	£368 n
39	Air intake strainer	£56	£41	£50	£50	£35	£41	£44

### EXCHANGE TURBOCHARGERS AVAILABLE FOR A WIDE RANGE OF MARINE, AUTOMOTIVE AND INDUSTRIAL APPLICATIONS

#### NOTES

- a Use exhauster/booster drive components, £81 if required.
- b Fit to flywheel £30.
- c If heavy flywheel £23 extra. If for 4:1 reduction £21 extra.
- e Requires modification of original truck sump and pick up £230 or requires change of water pump if originally an upright engine £90
- j Includes replacement "Spin-on" oil filter assembly.
- l Remounts original truck oil cooler
- t Pump and injectors require modification on non-turbo base.
- y Also suitable for 3.0 and 3.1 litre, but additional parts are needed.
- z Jacket also encloses original exhaust manifold.

#### TURBOCHARGED ENGINE WARNING

The use of turbochargers on marine engines imposes considerable strains which can be sustained only if the basic motor is in first class condition and is operated with all due care and consideration.

#### SUITABILITY NOTE

Lancing Marine components are designed to fit the most popular form of the designated engine known to us. If components are found to be incompatible with a particular variant, every effort will be made to produce a suitable component at as close as possible to the quoted price. If this proves impossible, then we will refund the original cost of the goods. Particular care should be taken with Perkins engines as often over 50 variations exist of a single model. Good photographs submitted with orders will assist selection of the most appropriate components.

#### ADVICE

Advice given on all products relates only to the suitability of our components for use in a particular system. We cannot undertake overall installation design work. Recommendations are made in good faith, based only on the information given to us at the time, and should not be taken as a guarantee of actual performance. Any contract entered into with Lancing Marine is subject to our terms and conditions, available on request.



### OIL FILTERS AND FUEL FILTERS

	Oil	Fuel
Cummins B engines	£19	£13
New Holland 40-series	£21	£17
New Holland 60-series	£21	£19 to £35

### ENGINE CIRCULATION PUMPS

BMC 1.5	60mm, 4-hole	£54
BMC 1.5	73mm, 3-hole	£72
BMC 1.5	70mm, 4-hole	£51
BMC 1.8		£41
BMC 4/98 & 6/96		£57
New Holland 10-series	87800115	£126
New Holland 40-series	6319	£184
New Holland 60-series up to 2002	6324	£150
New Holland 60-series up to 2002 on	80150	£190
Cummins 4B – 6BTA	3286278	£168

### TIMING BELT KITS

Perkins Prima	PBTK138+PCB0252	£57
Ford XLD 1600	PBTK438	£41
Ford XLD 1800 early	PBTK002	£97
Ford XLD 1800 late	PBTK016	£91
Ford 2.4 York	PBTK208	£58
Ford 2.5 Transit early	PBTK218	£62
Ford 2.5 Transit, late	PBTK135	£68

### BMC ENGINE PARTS

Head gasket kit, 1.5 & 1.8	£38
Conversion set, 1.5 & 1.8	£29
Head gasket set 2.5	£49
Exhaust injection outlet, Hi-rise for Thornycroft 1.5 & 1.8 BMC and Ford XLD 1800	£195

### CUMMINS 4B to 6BTA ENGINE PARTS

Rocker cover gaskets	£31/£47
De-coke kit	£198/396
Conversion set	£316
Sump set	£59
Main bearing set	£94/£194
Big end bearing set	£52/£78
Piston, pin and rings	£198
Piston ringset	£65.00

### NEW HOLLAND ENGINE PARTS

Connection, gasket & seal, circulation pump 4564+4562+4565	£74
Belt tensioner and idler pulley, 60-series	80092 £149
Belt tensioner, 40-series	81801689 £239
Poly-V belt, 40-series	82850751 £40
Poly-V belt, 60-series	J911565 £45
De-coke kit, 60-series, 6-cyl	1930959 + 87801753 £307
Conversion set, 60-series, 6-cyl	1930960 £187
Piston, pin & rings, 60-series	87802364 £407
Piston ringset, 60-series	87802834 £98
Fuel primer pump and mount	£63

Engine parts prices above are as a general guide. Precise model information and serial numbers needed to identify correct parts

### BOW THRUSTERS

		Thrust, Kg	Tunnel dia, mm	WEIGHT, Kg	
<b>EB20</b>	ENGBO Sidepower bow thruster, 12v	20	110	5	£693
<b>EB40</b>	ENGBO Sidepower bow thruster, 12v	40	160	14	£890
<b>EB60</b>	ENGBO Sidepower bow thruster, 12v or 24v	60	160	16	£952
<b>EB75</b>	ENGBO Sidepower bow thruster, 12v/24v	75	185	18	£1210/£1551
<b>EB90</b>	ENGBO Sidepower bow thruster, 12v/24v	90	185	18	£1551/£1758

Price includes toggle switch and 1.0m of GRP, steel or aluminium tube

### OIL FILTER CONVERSIONS TO SPIN-ON STYLE

BMC1.5 to 2.5, Perkins 3-152 & 4-203, including filter	£48
Ford 4D/6D 2700 & 2720 series, including filter	£48
BMC 3.4- 5.7 & Leyland 4- 6/98, including filter	£48
Perkins 4-108, 4-236, & 6-354, including filter	£48
Spare spin-on filter	£9.50



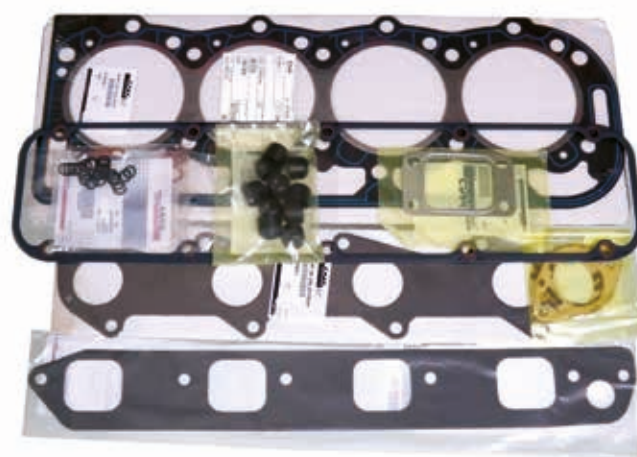
Oil filter, spin-on conversion kit



Circulation pump, 40 series



Circulation pump, 60 series



De-coke kit, Cummins 4B



Sidepower EB20

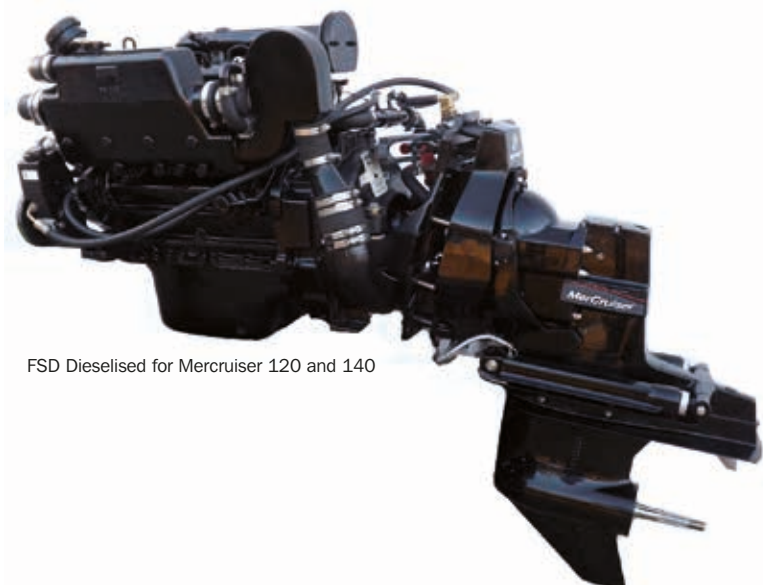
# Diesel engines to petrol sterndrive kits

## BOATBUILDER PRICES

DIESELISE KIT TO USE EX-VEHICLE ENGINE TYPICAL H.P. & R.P.M. OF EX-VEHICLE ENGINE, MAX (j)	FORD XLD 1800 59@4800	FORD XLD TI 92@4500	PEUGEOT 1900TI 93@4300	FORD FSD 70-80@4000	FORD FSDT 100@4000	FORD FSDTI 125@4000	IZUSU 2.8 TURBO 99@3800	CHEVROLET V-8 DIESEL 160@3800
(b)(f)		(f)			(c) (f)	(c)	(h)	(u)
to replace <b>VOLVO</b> 70 to 115 on 100 drive.	£2266	£2845	£3215	£2451	—	—	—	—
to replace <b>VOLVO</b> 110 to 130 on 200 to 270 drive.	£2282	£2867	£3254	£2451	£3663	£4458	£2449	—
to replace <b>VOLVO</b> 4 cylinder OHC on 250 to 290 drive.	£2318	£3021	£2985	£2497	£3663	£4458	£2449	—
to replace <b>VOLVO</b> 165 & 170 on 250 & 270 drive.	£2574	—	—	£2533	£3699	£4494	£2449	—
to replace <b>VOLVO</b> V-6 & V-8 on 250 to 290 drive.	£2492	—	—	£2405	£3584	£4379	£2449	£2936
to replace <b>MCR</b> 110 to 165 on MCR1 or Alpha drive.	£2328	P.O.A.	P.O.A.	£2165	£3366	£4161	P.O.A.	—
to replace <b>MCR</b> 4-70 to 88 on MCR1 or Alpha drive.	£2151	P.O.A.	P.O.A.	£2207	£3408	£4203	P.O.A.	—
to replace <b>MCR</b> V-6 & V-8 on Alpha or Bravo drive.	£2309	—	—	£2185	£3361	£4156	P.O.A.	£2675
to replace <b>O.M.C.</b> most models.	P.O.A.	—	—	P.O.A.	P.O.A.	P.O.A.	—	—
to replace <b>B.M.W.</b> most models.	—	—	—	P.O.A.	P.O.A.	P.O.A.	—	—



Isuzu Diesel marinising and mounting kit



FSD Dieselised for Mercruiser 120 and 140



FSD Dieselising kit to Volvo sterndrive

Dieselise kits contain all the parts needed to replace an original petrol engine with your selected ex-vehicle Diesel engine, mount it and couple it to your original Sterndrive. Kits include marinising components, drive unit couplings, exhaust connections, engine mountings, control cable connection and tachometer, so no other significant expenditure is required except, perhaps, a change of propeller.

### NOTES

- (b) For XLD 1600 deduct £263 from XLD 1800 prices
- (c) FSDT and FSDTI kits are to uprate originally naturally aspirated base engines.  
In most cases optional exhaust systems (through-transom or through-drive) are available
- (f) Used, ex-vehicle base engines with selected dieselise kit fitted, XLD £1704, FSD £1704, Peugeot 1900TI £1987 extra. Dynamometer tested.
- (h) Charge cooler mount bracket not included
- (j) H.P. & R.P.M. will vary according to original vehicle application
- (u) Partial kit.

**DIESELISATION PARTS ARE ALSO AVAILABLE FOR 1.9, 2.3 & 2.5 PEUGEOT AND OTHERS**



### FLYWHEEL ADAPTATIONS

### BOATBUILDER

Flywheel ring for XLD with own Mercruiser/OMC coupling fitted	£189
Flywheel ring for XLD to accept new Hy-drive damper plate	£189
Flywheel ring for XLD with own J-type input shaft welded on	£209
Flywheel weight plate for 6.2 Chevrolet diesel for Mercruiser or Volvo	£293
Flywheel adaptor, FSD to Mercruiser or OMC coupling, crankshaft fixing type	£210
Flywheel driveplate spacer blocks for FSD drive plate (3)	£43
Modify own BMW drive plate to fit FSD bolt pattern	£70
Flywheel drive plate, Volvo spline, 12", 1.9hp/100rpm "AM"	£100
Flywheel drive plate, Volvo spline, 12", 3.8hp/100rpm "AG"	£129
Flywheel drive plate spacers, set of 6, 10mm to 30mm long for Chevrolet diesel	£79
Spigot bush for XLD engine to accept Volvo primary shaft	£20
Spigot shaft extension FSD, for Volvo B20/B23 4 cylinder primary shaft	£30

### BELL HOUSING ADAPTATIONS

Engine backplate, XLD to Chevrolet, Volvo B20 or Volvo B23 pattern bell housings	£207
Engine backplate, Peugeot XUD to Volvo B23 pattern housing	£207
Flywheel housing adaptor, FSD to Volvo 4 cylinder bell housing	£285
Flywheel housing adaptor, FSD to Chevrolet pattern housing	£224
Modify own Volvo or BMW flywheel housing and weld to Borg-Warner/SAE7 housing or spacer ring	£165
Borg-Warner/SAE7 flywheel housings for most popular engines	See page 37
Modify ex-vehicle aluminium flywheel housing to SAE7	£455
Flywheel housing spacer kit Chevrolet 6.2 diesel to Volvo V-8 bell housing	£100

### EXHAUST PARTS

Exhaust injection	With 2" (51mm) vertical down outlet, for FSD	£238
outlet, hi-rise	or with body pointing sideways for XLD	£231
Transom-mount exhaust outlet and rubber flap for 3" hose TRCPB		£63
2" (51mm) to 3" (76mm) adaptor duct, straight		£49
2" (51mm) to 3" (76mm) adaptor duct, elbow		£49
3" (76mm), 3½" (90mm) OR 4" (102mm) alum hose plug		£9
Blanking plate for exhaust connection Volvo 200-280 or 290 drive.		£41

### MISCELLANEOUS PARTS

Relay and wiring diagram for connection of Mercruiser and OMC shift micro-switch	£16
T-piece and nipple, with ¼" or ⅝" (8mm) return connection	£15

### FRONT MOUNTINGS

Single-point front mount bracket and rubber for FSD	£151
Pair of front mounting adaptors for FSD to OMC pre-Cobra	£162

Whilst every effort is made to ensure the compatibility of engines and parts with existing installations, there may be variations that we do not fully appreciate. If any parts are found to be incompatible, we will do our best to exchange them for other more suitable parts, at the lowest possible cost. Should this prove to be impossible, then we will refund the cost of equipment returned in good condition, though we are obviously not able to undo modification work done on client's own equipment.

Propeller and gear ratio change costs are not included in our prices.

Advice given on boat performance is based on information available at the time, and is not guaranteed.



FSD hi-rise exhaust



XLD hi-rise exhaust



XLD steel plate to Volvo



FSD housing to Chevrolet



Exhaust duct 2" to 3" offset



Exhaust duct 2" to 3" elbow



Volvo 290 exhaust blanking plate



FSD Flywheel driveplate spacers and bolts

## SPECIALISED COMPONENTS



FM 420



FM 622



2934/3 charge air cooler for Ford



2645 charge air cooler for Perkins



FH 410



FH 220



FH 420B

## MANIFOLDS

Bedford 220, F/W	GM360**	£481
Bedford 466/500, F/W, early	GM760**	£1080
Bedford 466/500, F/W, late	GM780LM	£1080
Ford 4D & D series, S/W, 32mm	FM420-2825	£797
Ford 4D & D series, F/W, 45mm	FM420-3374	£770
Ford 4 cylinder 2720 series, F/W, 45mm	FM422LM	£797
Ford 6D & D series, S/W, 32mm	FM620-2824	£906
Ford 6D & D series, F/W, 45mm	FM620-3376	£906
Ford 6 cylinder 2720 series, F/W, 45mm	FM622	£868
Ford Cologne V6, S/W	FM280**	£417
Mercedes V6, F/W or S/W	MB480**	£944
Mercedes V10, F/W or S/W	MB800**	£1554
Mercedes V12, F/W or S/W	MB960**	£1877
New Holland 666 & 678	FM710**	£732

\*\*Whilst stocks last

## CHARGE AIR COOLERS

Perkins T6-354 & HT6-354, 2" air ports	2644/5**	£836
Adapter hose 2" to 3"		£27
Ford 2700/2720 series Turbo 4	2934-2	£668

## HEADERTANK/HEAT EXCHANGERS

Cummins 4B, 4BT, 6B & 6BT (Heat exchanger only)	CB120	£432
Ford 4D & 6D Trader	FH210LM**	£832
Ford D series, 4 cylinder & 6 cylinder	FH220	£792
Ford D series, 6 cylinder & turbo	FH320	£953
Ford 2704ET, old style	FH420A	£986
Ford 2704ET, new style	FH420B	£855
Ford 4 cylinder & 6 cylinder 2720 series	FH440	£533
Ford 4 cylinder & 6 cylinder 2720 series	FH450	£638
Ford 6 cylinder, turbo intercooled 2728 TIM	FH480	£865
Perkins 4-107 & 4-108 incl. oil cooler	FH140	£857
Perkins 4-236, incl. oil cooler	FH270	£917
Perkins 6-354 & T6/354 (not -2642)	FH410-2986	£719
Perkins H6-354 & HT6-354 (not -2643)	FH410-3006	£719

## MANIFOLD/HEADERTANK/HEAT EXCHANGERS

Bedford 220	GM370**	£907
Ford 1600cc cross-flow	FM160**	£401
Landrover 2.25 litre	LR250LM	£890
New Holland 4 cylinder	FM402	£796
New Holland 6 cylinder	FM602	£1016
Mercedes 300, 5 cylinder	MB300	£904
Mercedes OM314	MB380	£861
Mercedes OM352 & OM321	MB570	£1145
Perkins 103	PE150	£507
Perkins 104	PE122	£529
Perkins 3-152, including thermostat cap	PE3-152 + PE26	£528
Perkins 4-154	PE250	£609

Less 10% if "Keel Cooling" type

\*\*Whilst stocks last



PE 150



**OIL COOLERS**

DC60 XAA (54hp) Oil ports 3/8" BSP, Water 22mm bore rubber ends	£61
DC90 XAA (80hp) Oil ports 3/8" BSP, Water 22mm bore rubber ends	£71
DC120 XAA (107hp) Oil ports 3/8" BSP, Water 22mm bore rubber ends	£86
DC60 YAA (54hp) Oil ports 1/2" BSP, Water 22mm bore rubber ends	£56
DC90 YAA (80hp) Oil ports 1/2" BSP, Water 22mm bore rubber ends	£71
DC120 YAA (107hp) Oil ports 1/2" BSP, Water 22mm bore rubber ends	£86
Also available with water connections 28mm(BB) or 32 mm(CC), straight or elbow	
Also available with 3/4" BSP metal ends, extra £33	
DC Max water flow 60 l/min	
EC80 2028-1 (60hp) Oil ports 1/2" BSP, Water 32mm brass hose tails ends	£125
EC100 2028-2 (120hp) Oil ports 1/2" BSP, Water 32mm brass hose tails ends	£156
2 x EC100 2028-2 end-to-end for gearbox and engine	£368
EC120 2028-3 (160hp) Oil ports 1/2" BSP, Water 32mm brass hose tails ends	£186
EC140 3198-4 (200hp) Oil ports 3/4" BSP, Water 32mm brass hose tails ends	£215
EC160 3198-5 (240hp) Oil ports 3/4" BSP, Water 32mm brass hose tails ends	£284
Also available with 32mm elbow or 45mm straight hoesetails price as BSP	
EC80 -1805-1 (60hp) Oil ports 3/4" BSP, Water 1 1/2" BSP female	£133
EC100 -1805-2 (120hp) Oil ports 3/4" BSP, Water 1 1/2" BSP female	£177
EC120 -1805-3 (160hp) Oil ports 3/4" BSP, Water 1 1/2" BSP female	£199
EC140 -1805-4 (200hp) Oil ports 3/4" BSP, Water 1 1/2" BSP female	£230
EC160 -1805-5 (240hp) Oil ports 3/4" BSP, Water 1 1/2" BSP female	£302
EC Max Water flow 180 l/min with single pass	
FC80 1806-1 (120hp) Oil ports 1" BSP, Water 2" BSP female	£260
FC100 1806-2 (180hp) Oil ports 1" BSP, Water 2" BSP female	£351
FC120 1806-3 (240hp) Oil ports 1" BSP, Water 2" BSP female	£392
FC140 1806-4 (300hp) Oil ports 1" BSP, Water 2" BSP female	£452
FC160 1806-5 (360hp) Oil ports 1" BSP, Water 2" BSP female	£521
Also available with water 58mm hoesetails, 10% extra	
FC Max water flow 270 l/min with single pass water flow	
FG100 1807-2 (300hp) Oil ports 1 1/4" BSP, Water 2 1/2" BSP female	£460
FG120 1807-3 (360hp) Oil ports 1 1/4" BSP, Water 2 1/2" BSP female	£510
FG140 1807-4 (480hp) Oil ports 1 1/4" BSP, Water 2 1/2" BSP female	£607
FG Max water flow 375 l/min with single pass	

**AIR COOLERS**

EC140-4242-4 (130hp) Air ports 2" Hose, Water 3/4" BSP female	£362
FC100-4074-2 (147hp) Air ports 2" Hose, Water 1" BSP female	£339
FG100-4075-2 (255hp) Air ports 3" Hose, Water 1 1/4" BSP female	£446
GL140-4076-2 (320hp) Air ports 3" Hose, Water 1 1/2" BSP female	£651

**HEADERTANK/HEAT EXCHANGERS**

DH120 25hp 350 x 200 x 80mm	£202
EH100 54hp 260 x 190 x 100mm	£231
EH200 67hp 350 x 190 x 100mm	£260
EH280 95hp 480 x 190 x 100mm	£363
FH100 85hp 360 x 220 x 120mm	{ with nylon endcaps £302 £25 extra for brass caps £351
FH200 120hp 460 x 220 x 120mm	
FH300 160hp 470 x 250 x 150mm	{ with nylon endcaps £489 £33 extra for brass caps £659
FH400 200hp 600 x 250 x 150mm	
GH200 240hp 470 x 310 x 180mm	£815
GH300 335hp 600 x 310 x 180mm	£951
GH400 400hp 780 x 310 x 180mm	£1085

Horsepower ratings are for guidance only. Many engines only require a size or two smaller in UK waters

**SUMP PUMPS AND THERMOSTATS HOUSINGS**

Sump Pump threaded 1/4" BSPF and 3/8" BSPM, LM	£23
Sump Pump with flexible hose to go down dip-stick tube, LM	£18
Thermostat Housings BL4 (BMC1.5 & 1.8), BL5 (BMC2.5)	£19
Thermostat Housings BL6 (BMC3.4, 3.8, 5.1, 5.7, 4/98, 6/98)	£23
Thermostat Housings FM7 (New Holland)	£22

Items marked LM are not of Bowman origin



EC 140 air cooler



DC 120 oil cooler



DH 120 header tank/heat exchanger



EC 100 oil cooler



FC 100 oil cooler



FH 300 header tank/heat exchanger



EC 100 oil cooler



C clamp

FG3 end cover



EC end cover 32mm, straight

EC end cover 1 1/2" B.S.P.



PS 18 &amp; PS 19 end covers



Filler necks



Filler caps, large &amp; small



Polar end cover A3 636

Bowman end covers 2679 &amp; 3186

## RUBBER END COVERS

		22mm	28mm	32mm	
Oil cooler end cap, straight.	part no.	3365	3366	3367	£9
Oil cooler end cap, elbow.	part no.	2680	3187	3716	£9
Heat exchanger end cap, small, straight	part no.	3251	3667		£13
Heat exchanger end cap, small, elbow	part no.	2679	3186		£13
Heat exchanger end cap, large, elbow	part no.		3192		£19
KK manifold end cap	pqr no.	3419			£13
Blank cap 45mm I.D.	part no.	2981			£9
Blank cap 50mm I.D.	part no.	3419 MOD			£17

## BRASS END COVERS

## For Oil Coolers

EC2-2479NB	Hose tail 45mm Straight, for EC	£35
EC3-1040NB	Threaded 3/4" BSP, for EC	£44
EC29-3230NB	Hose tail 32mm Straight, for EC	£35
EC33-784NB	Threaded 1 1/2" BSP, for EC	£45
EC53-3237NB	Hose tail 32mm 90 Degree, for EC	£43
FC2-1108NB	Hose tail 58mm, for FC	£76
FC3-1281NB	Threaded 1" BSP, for FC	£78
FC3-1281NB	Threaded 2" BSP, for FC	£78
FG3-1583NB3B	3 Bolt Threaded 1 1/4" BSP, for FG	£98
FG36-2740	4 Bolt, hoesetail	£68
FG7-2802NB	4 Bolt Threaded 2 1/2" BSP, for FG	£101

Above also available in Cast Iron and Aluminium

## For Heat exchangers

\*\* whilst stocks last

DT33-1675NB **	(threaded), for EH heat exchangers	£49
PS13-752NB **	(threaded), for EH heat exchangers	£84
PS18-753/754/3093 NB	(threaded, thru hole or C clamp), for FH small heat exchanger	£88
PS19-3090/2812NB	(threaded, thru hole or C clamp), for FH small heat exchanger	£88
PX2-864/2538/3045NB	(threaded, thru hole or C clamp) for FH small heat exchanger	£109
TH08-881/3046/3090NB	(threaded, thru hole or C clamp) for FH large heat exchanger	£106
C Clamps 3436	for FH small heat exchanger	£12
C Clamps 3437	for FH large heat exchanger	£13

## O RINGS, NITRILE

OS31NT	51.8mm I.D. for FM402, 602	£2.10
AN12NT	76mm I.D. for EC oil coolers	£2.20
OS41NT	76mm I.D. for EH220, 320	£2.90
OS46NT	95mm I.D. for FC and FH210, 220, 440	£3.20
OS52NT	114mm I.D. for FG and FH140, 320, 380, 420	£4.80
OS63NT	146mm I.D. for GL, GH	£6.50
OS69NT	178mm I.D. for GK, KH	£9.20
OS74NT	210mm I.D. for JK, JH	£12.30
OS81NT	254mm I.D. for PK, PH	£14.90

## FILLER CAPS

Filler cap, small 2753	£9
Filler cap, large 2747	£12

## FLANGED HOSE CONNECTIONS

FH100-400 to 45mm hose	£5
FH100-400 to 58mm hose	£5

## HOSE CLAMPS

N0312 (20-45mm)	£5
N0237 (50-80mm)	£5
N0450 (90-130mm)	£7

## NECKS AND INSERTS

Solder-on filler neck, small 2755	£5
Solder-on filler neck, large 2750	£9
Screw-in filler neck, small 3921-1	£18
Screw-in filler neck, large 3921-2	£26

## OTHER MAKE RUBBER END COVERS

nett

A3 / 635 Polar	3" oil cooler, 28mm straight	£32
A3 / 636 Polar	large manifold, 28mm elbow	£42
A3 / 703 Polar	small manifold, blanking cap	£21
A3 / 722 Polar		use A3 / 783
A3 / 727 Polar	55mm oil cooler, 22mm straight	£15
A3 / 728 Polar	55mm cooler, 28mm straight	£15
A3 / 783 Polar	small manifold, 22mm elbow	£26
RM75H Sprinter	75mm tubestack, angled or straight	£19
FM-DTN-EK	2-pipe, DTN Peugeot	£37
FM-DTN-K	1-pipe, DTN Peugeot	£36
FM-DTN-S	U-bend, DTN Peugeot	£44



**BODIES****For Oil Coolers**

EC10-783-2	(184mm long) (Perkins 24860090) for EC100	£40
EC12-783-3	(270mm long) for EC120	£48
FC8-1200-1	(180mm long) for FC80	£80
FC10-1200-2	(266mm long) for FC100	£107
FC12-1200-3	(363mm long) for FC120	£129
FG8-1650-1	(266mm long) for FG80	£174
FG10-1650-3	(363mm long) for FG100	£213
FG12-1650-3	(472mm long) for FG120	£240

**For Heat exchangers**

PS2-215	for FH140, (Perkins 24860120)	£390
PH1	for FH270, (Perkins 24860124)	£377
XF1-2103	for FH220	£330
TH2-2104	for FH320	£455
TH6-2929	for FH420	A spec £639, B spec £527
XF2-3453	for FH440	£321

**For Air coolers**

PD1-1338CI	for 2644 and 2645 (Perkins 24860144) cast iron **	£296
TH15-2927	for 2934-3 (180HP Ford, 2704ETI)	£216
EC059	for EC140 (Ford Puma)	£90
FG017	for FG100 (Ford FSD)	£224

all bodies are suffixed -AL for Aluminium, except where marked

**TUBESTACKS****For Oil Coolers**

785 2TN1A	(EC100 76mm Dia X 192mm) (Perkins 24860093)	£109
785 3TN1A	(EC120 76mm Dia x 278mm)	£136
1530 2TN1A	(FC100 95mm Dia x 278mm)	£217
1530 3TN1A	(FC120 95mm Dia x 376mm)	£253
1959 2TN1A	(FG100 114mm Dia x 376mm)	£266
1959 3TN1A	(FG120 114mm Dia x 504mm)	£311

**For Heat exchanger/manifolds**

514-525TN1	51mm Dia x 525mm long	£300
518-600TN1	51mm Dia x 600mm long	£326
518-693TN1	51mm Dia x 693mm long	£384
518-941TN1	51mm Dia x 941mm long	£663
674-947TN1	67mm Dia x 947mm long	£695

**For Heat exchangers**

95mm Dia x length	278mm	376mm	504mm	650mm
1530/3445-2/3/4/5	£217	£253	£301	£340
114mm Dia x length	376mm	504mm	650mm	828mm
1959/3446-2/3/4/5	£266	£31	£374	£461

Tubestacks with tie rod holes are also available

Nut and washer for tie-rod units	small £8	medium £11	large £13
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**For Air coolers**

1448-2TN1B	(2644/2645 Perkins 24860123)	£425
3446-3TN1B	(2934-3 Ford 180HP)	£311
3445 3TN2B	(4052 Ford FSD TCM TI)	£253

**GASKETS OUTLETS**

MB180, PE180 (Old type), VW150	£5
BL180, BL250, FM180, LR250, MB220, MB300	£5
FM240, FM242, PG210	£5
PE180	£5
FM420, FM422, FM620, FM622, GM760	£5
FM450, FM452, FM660, FM662, FM710	£5
BL380, BL570, PE390, PE580	£5
FM402, FM602	£5

\*\* whilst stocks last



FM 240 tubestack 514- and 518-



2645 air cooler, body



EC100, body



FH 140 body



FH 420A body



EC tube stack



Tie rod nuts and sealing rings



FM402, 420,240, 180 gaskets

# Jabsco sea water pumps, parts & calorifiers

BOATBUILDER PRICES



Jabsco 52580-2001



Jabsco 29440-1001


Electric bilge pump,  
90lt/min


Jabsco 29460-1631



Jabsco 21140-2401



Jabsco 9990-41



Impellers 17937 and 1210



Clutched deckwash pump

## SEA WATER CIRCULATION PUMPS BELT DRIVEN FOOT MOUNTED

51510-2001 3/8" BSP ports 10 l/min mechanical seal	£141
52040-2001 3/4" BSP ports 40 l/min	£153
52080-2001 1" BSP ports 80 l/min	£197
52580-2001 1" BSP ports 80 l/min mechanical seal	£294
52200 1 1/2" BSP ports, 200l/min	£366

## FORD & NEW HOLLAND SEA WATER PUMPS

10950-2401 for 2712E, 2715E, 2722E, 2725E	£305
21140-2401 for 2722E 2725E, 2726T, 2728TIM	£276
22740-0451 for FSDTI TCM**	£336
29520-2001 Genesis 450 3/4"	£490
29620-2001 Genesis 675 1"	£475

## KUBOTA SEA WATER PUMPS

29460-1631 (D722 with drive from rear of block)	£182
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## PERKINS SEA WATER PUMPS

10970 3/4" BSP ports, 4-bolt flange mounted, for 4-236 & M90 (2488275)	£409
29500-1001 28mm V-ports, flange mounted for Prima (QBHB0131)	£278
29630, use 29640 32mm hose ports, 6-bolt flange mounted for Sabre-Perkins	£442
3270-200 3/4" BSP ports, flange-mounted for 4-99, -107 & -108 (35615)	£278
9700 1" flanged ports, 3-bolt flange mount for T6-354 & M200-275 (24880077)	£422
9990 3/4" NPT ports, 2" barrel mounted for 6-354 & some T6-354 (2488321)	£330
29500-1001/33984S Perkins Prima, M65	** £278

## OTHER SEA WATER PUMPS

11120-200 for, TMD50A, TMD70, TAMD70, MD70, MD70A** (cam and screw may need changing)	£396
3270-241 flange-mounted, 3/4" BSP ports. For BMC 2.2 & 2.5	£341

## CRANKSHAFT DRIVEN SEA WATER PUMPS

29440-1001 (replaces 22770)	25mm	£216
22960 (Use 29440 with new mount)		from £275
22740-0451	32mm	£336
50410-1301 for chevrolet	32mm	£346

## DECK WASH PUMPS

Electric Clutch 12v or 24v 1" BSP single B Pulley, mechanical seal 50580	£488
Electric Clutch 12v or 24v 1 1/2" BSP single B Pulley, mechanical seal 50200	£593
Manual Clutch 1" BSP single B Pulley, mechanical seal 51580 2001	£730
Manual Clutch 1 1/2" BSP single B Pulley, mechanical seal 51220-0011	£940
Manual Clutch 2" BSP single 1A/1B Pulley, mechanical seal 51270-2011	£1045

## IMPELLERS SEA WATER PUMPS

1210 ( 09-1027B, 0460038, 860203,129470-42530)	£23
17935 (was 836)	£32
17936 (09-814B was 21676)	£80
17937 (09-1028B-9, 127610-42200, 0460024 was 920)	£26
18653	£25
18673	£33
Impeller removal tool 50070-0040	£65

18777 (834794, J050022, CEF500104, was 22120)	£29
4528 (09-806B, 104211-42070, 24990272, 803729, 9979)	£18
4568 (09-801B, 124310-46090, 831182)	£29
6303	£20
653 12mm (09-810B)	£18
673 1 1/2" (09-1026B-9, 804696, 24880194, IMP00101)	£26

## ELECTRIC PUMPS

Electric bilge pump, 30 lit/min, 12 volt, 25D standard	£20	25S automatic	£55
Electric bilge pump, 69 lit/min, 12 volt, 27D standard	£33	27S automatic	£84
Electric bilge pump, 90 lit/min, 12 volt, 02 standard	£69		
Electric bilge pump, 120 lit/min, 12 volt, 10 standard	£96	53S automatic	£187

Electric bilge level sensor and pump control 12 volt or 24 volt, 35A	£24
Jabsco electric water puppy, 32 lit/min, 12 volt or 24 volt 23680	£137
Jabsco electric engine circulation pump, 12V, 12.5 lit/min 59510	£158
Float switch, audio-visual alarm, 33ALA	£54

## CALORIFIERS

## NETT BOATBUILDER

For engine heated hot water, 25 litre capacity, insulated, incl. safety valve, horizontal	450 x 300 dia	£197
For engine heated hot water, 32 litre capacity, insulated, incl. safety valve	550 x 300 dia	£204
For engine heated hot water, 36 litre capacity, insulated, incl. safety valve	450 x 350 dia	£233
For engine heated hot water, 50 litre capacity, insulated, incl. safety valve	800 x 300 dia	£307
For engine heated hot water, 50 litre capacity, insulated, incl. safety valve, horizontal	800 x 300 dia	£287
For engine heated hot water, 72 litre capacity, insulated, incl. safety valve	600 x 450 dia	£298
For engine heated hot water, 120 litre capacity, insulated, incl. safety valve	900 x 450 dia	£493
Some sizes are available with a second heating coil		P.O.A
Immersion heater, with temperature control thermostat and overheat shut-off, 240v	800W, AF £64	2000W, CW275 £78
Blender valve to reduce hot tap temperature to safe level, 15mm connectors CW268		£20

Dimensions given are for popular models. Other vertical and horizontal models are available.

\*\*Whilst stocks last

Add 50mm to diameter for insulation, which can be trimmed locally to avoid obstructions.

V.A.T. extra on all prices

Phone: +44 (0)1273 411765. Email: data@lancingmarine.com. Website: www.lancingmarine.com



## TURBOCHARGERS

### New

Cummins Part Number 3802886 for 6CTA, 3538623	450HP	£1042
Ford Part Number 876F6K682GAA, 3521538 for Dover/Dorset	150HP	£562
Ford Part Number 35242011B / 53269886491/3523677	180/212HP	£502
H-type replacement for 3LD on Ford 250HP	3525554	£612
Adapter flanges for H-type turbos for Ford LD Oil pipes, pair		£30
Mercuriser Part Number 882562 for 120hp 1.7litre		£826
Mermaid Part Number 826F68KAA, 3518002, 3599051	200-275HP	£805
Adaptation air hose & air intake strainer for 3599051		£119
Perkins Part Number SAB33068 for M225 / 265 452071-0022		£788
Volvo Part Number 861260 for KAD42 5326.9886.497		£829
Volvo Part Number 3581012 for TAMD43 5326.9886.750		£858
Volvo Part Number 3581528 for TAMD32 5326.9886.016		£859
Other units available. Please advise part numbers from turbocharger label		
Repair/exchange service for most older turbochargers,		from £475



Turbocharger Mercruiser 882562



Exhaust outlet with flap



4" Turbo outlet



Exhaust water trap AF

## TURBOCHARGER PARTS

## BOATBUILDER

### V clamps

For 76mm O.D. Flange	£22
For 89mm, 94mm O.D. Flange	£27
For 122mm, 124mm, 131mm O.D. Flange	£34

### Gaskets

Turbo to manifold Watercooled Ford 1026220/Perkins 36853319 (FK0228)	£24
Gasket kit for most H-type turbochargers (FK0007)	£24

## EXHAUST INJECTION OUTLETS

## BOATBUILDER

Stainless steel with water connection made to sample 10 – 14 days

3" Bore Exhaust for bolted or flanged turbochargers	from £221
4" Bore Exhaust for bolted or flanged turbochargers	from £246
5" Bore Exhaust for bolted or flanged turbochargers	from £252
4" to replace 2 piece Perkins T6-354 & HT6-354 parts	£395



Turbocharger heat shield



Heavy duty exhaust clamps



Turbocharger Vee clamp

## EXHAUST SYSTEMS

## BOATBUILDER

Hose Size	2"	3"	4"	5"
Stainless steel pipe, per 30cm	£9	£12	£16	£27
Hose for wet exhaust, per 30cm, TX	£6	£9	£11	£16
Hose for wet exhaust, per 30cm, Soft, without wire	£8	£9	£11	–
Stainless steel, extra heavy duty hose clamps, per pair (other sizes available)(1½")	£8	£11	£16	£28
Exhaust water trap, black, AF	£54	£146	£159	–
Exhaust water trap, standard, LP	£122	£199	–	–
Exhaust water trap, extra large, round, NLP/MGP	£161	£237	£576	£576
Exhaust back-flow preventer, LT	£101	£212	£256	£256
Exhaust gas/water separator for gensets, HY	£166	£225	–	–
In-line plastic silencers, MP	£90	£150	£256	–
Stainless steel pipe bend	£12	£24	£44	–
Exhaust outlet, rubber, TRCR	£58	£119	–	–
Exhaust outlet, stainless steel, standard type AS	£51	£69	£100	–
Exhaust outlet, stainless steel, with built-in rubber flap, TRCSV	£68	£100	£151	£265
Exhaust outlet, synthetic, with built-in rubber flap, TRCPV/TC	£32	£63	£118	£160
Rubber flap to fit plain end exhaust pipes AS	£14	£16	£21	£44
Stainless steel flexible bellows, with overbraiding and weldable ends (O.D.) AF (1½")	£33	(2¾") £45	(3") P.O.A.	(3½") P.O.A.
Dry silencers with weldable or BSP threaded ends (O.D.) AF/AS	(1½") £58	(2¾") £86	(3") £146	(3½") £172
Heat resistant wrapping tape for exhaust systems, per metre	(7.7m roll £42)			3" wide £11



Dry exhaust bellows



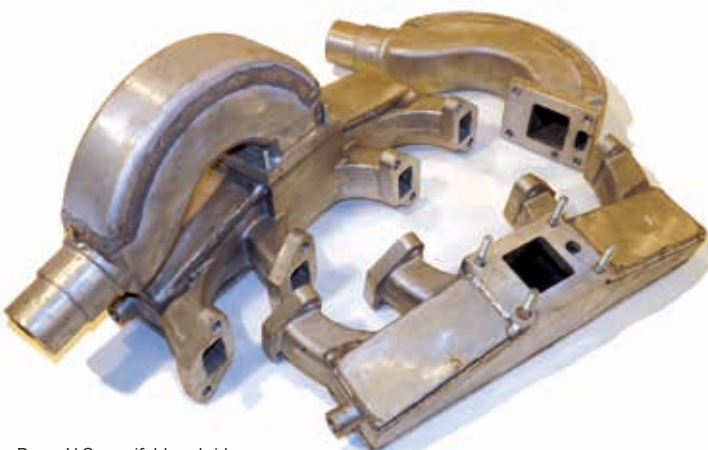
Radiator and elbow hoses



560 mount



190/300 mount



Rover V-8 manifold and risers



Hose tails

### HOSES & CONNECTIONS

Rubber elbow hose, 22mm bore	£12
Rubber elbow hose, 30mm bore	£14
Rubber elbow hose, 32mm bore	£18
Rubber elbow hose 35mm bore, 270mm long leg	£21
Rubber elbow hose 38mm bore, 270mm long leg	£26
Rubber elbow hose 45mm bore, 270mm long leg	£30
Rubber elbow hose 50mm bore, 270mm long leg	£32
Rubber Hose 3734, 31mm bore	£29
Rubber Hose 3070, 38mm x 31mm bore	£30
Turbo silicone hose 22mm bore 2" long	£7
Turbo silicone hose 2" bore 2" long	£10
Turbo silicone hose 3" bore 2" long	£11
Turbo silicone hose elbow 50mm bore, 90mm + 230mm legs	£65
Blue silicone hose elbow 45mm, working temperature, 150°C	£31
Blue silicone hose elbow 50 mm x 45mm, working temperature, 150°C	£40
Black silicone hose elbow 44 mm x 35mm	£38
Black silicone hose straight 51 mm x 44mm	£18
Black silicone hose straight 63 mm x 51mm	£21
Black silicone hose straight 76 mm x 51mm	£27
Radiator hose, 1m lengths 20mm, 28mm, 30mm	£5
Radiator hose, 1m lengths 32mm, 35mm, 38mm, 40mm	£6
Radiator hose, 1m lengths 42mm, 45mm, 48mm, 50mm, 55mm	£8
Radiator hose, 1m lengths 60mm, 70mm, 75mm	£11

### ADJUSTABLE RUBBER MOUNTS

TYPE	MAX LOAD EACH POUNDS (Kg)	EACH
C-Type	190 (86), 300 (136)	£21
Small, soft	91 (40), 171 (86)	£24
Standard	230 (104), 410 (186), 560 (255), 680 (309)	£31
Heavy duty	760 (345)	£42
Double acting	670 (305) (3/4" stud)	£58
Yanmar types	Y75 (18-60), Y100 (23-73), Y150 (28-109), Y200 (32-146)	£68

### EXHAUST MANIFOLDS & OUTLETS - DIESEL (REPLACEMENT TYPE)

Scania DS11 (not as original)	£1026
Volvo TD70 (not as original)	£665
Perkins T6-354	£895
Cummins 4B, 4BT	£760
Cummins 6B, 6BT, 6BTA	£890
Cummins 6C, 6CT, 6CTA	£998

### EXHAUST MANIFOLDS & RISERS - PETROL

Chevrolet petrol V8 small block per pair	£476
Chevrolet petrol V8 big block per pair	£476
Ford petrol V8 small block per pair	£476
Risers for above V8's per pair	£297
Ford 1100 -1600 X-flow, raw water cooling	£411
Ford 1.6litre & 2litre O.H.C.	£436
Ford Essex 3 litre V6 per pair **	£744
Risers Ford Essex 3 litre V6, pair, for 2" exhaust hose	£106
Ford V-6, Köln, 2.8 litre, pair, plain	£838
(can be adapted for Essex V-4)	with risers £1138
Jaguar twin for XK120 - 150 **	£740
Droppers for Jaguar XK120 - 150, pair **	£198
Jaguar V12 per pair	£1122
Rover V8 per pair	£555
Risers Rover V8 per pair	£460

### TONVAL AND BRONZE B.S.P. HOSETAILS AND FITTINGS

THREAD	FOR HOSE BORE mm				
3/8"	10	16			(BRASS) £3
1/2"		14	16	20	22 £6
3/4"			20	22	25 28 £8
1"				25	28 32 £9
1 1/4"					32 38 45 £11
1 1/2"					32 45 £13
3/4" BSP elbow				25	£14
1" BSP elbow					28 £15
Bushes, BSP, 3/4" x 1/2"	£4		1" x 3/4"	£6	1 1/4" x 1" £12
					1 1/2" x 1 1/4" £13

\*\* whilst stocks last



WATER INTAKE AND STRAINERS	Hose Size 16mm	22mm	28mm	32mm
Bronze, tonval, plain skin fitting, DZR ball valve, internal strainer, and hose tail	£97	£124	£193	£277
Polypropylene plan skin fitting seacock, internal strainer with hose tail for steel and ferro hulls		£93	£113	£199
Bronze, tonval, combined external skin fitting and strainer, DZR ball valve and hose tail	£36	£44	£66	£89
Non-stick seacock, bronze, with open/shut indicator, outright/inlieu of DZR valve	½" BSP £43/£233	¾" BSP £48/£39	1" BSP £57/£36	1¼" BSP £72/£36
Stainless steel high speed skin fitting and back nut ready for hose	£71	£79	£88	
Plastic water filter with 19, 26 and 31mm hose connections (CQ914)				£24
Plastic water filter with 1½" BSP connections (CQ915)				£55

### AIR STRAINERS

Sparrow catcher, plain for turbos 50mm bore	£41
Seagull catcher, chrome for turbos 70mm bore	£50
Albatross catcher, plain for turbos 100mm bore	£87
"Rally" style conical air filter to suit intakes 60-78mm dia., 150mm high	£35
Full range of other sizes available, 28-196mm	P.O.A.

### CONSUMABLE MATERIALS

#### JOINTING AND SEALING COMPOUNDS

Firegum exhaust jointing paste, tube	£5
Universal jointing compound, blue, 85gm	£7
Universal jointing compound, red, 85gm tube	£9
Bond-loc stud and bearing fit, 10ml	£8

#### LUBRICANTS

Raminol marine grease, 500gm tub	£15
Engine oil, 15/40 for diesels, 5 litres	£21
Gear oil, 80/90, 5 litres	£21
Automatic transmission fluid, 'Dextron', 1 litre	£5
Asset protector anti-corrosion spray, 250ml	£9

### MISCELLANEOUS

Anti siphon vent to fit 18, 22, 25, & 32mm hose plus 2.5m hose and vent fitting	£69
Thermostat Standard	£10
Thermostat by-pass type	£12
Anode bar 12" long T5	£40
Oil block Perkins/4-236, inverted, needs by-pass pipe if without oil cooler	£102
Nuts and bolts UNC, UNF & Metric up to ¾"/14mm diameter	P.O.A.
Studding UNF, UNC, Metric	P.O.A.
Stainless Hose clips Hi Torque heavy duty up to 45mm	£2
Stainless Hose clips Hi Torque heavy duty 50mm to 80mm	£3
Stainless Hose clips Hi Torque heavy duty 90mm to 130mm	£4
Engine Paint, Royal Blue 1 litre £11 125ml touch up £3	
Engine jacket water circulation pump rebuild service	from £145
Engine sump pump with hoses to go down dipstick tube CQ10-32610	£18
Engine sump pump ¼" BSP female / ⅜" male	£23



Seacock and internal strainer assembly



Seagull catcher



Anti-siphon vent



Raminol grease



Hi-torque clips



New cone air filter



Non-stick seacock



ISIS ball valves



Plastic water strainer



Hand held digital tachometer



Instrument panel with half harness



Engine half wiring harness



Run/stop solenoids, H.D. &amp; standard



Smart digital regulator



Oil pressure gauge and sender



Temperature gauge and sender



Instrument panel, empty, 280mm x 230mm



Tachometer

**INSTRUMENT PANELS**

- Economy.** 95mm round panel, with start/run switch and 3 warning lights, engine sensors, 4m harness and alarm sounder £209
- Cruising.** Harness and panel etc., with tachometer with hour counter, temperature, oil pressure, battery volts and choice of fuel level or boost or gearbox pressure gauges. £365
- \* Big two.** Similar functions to 'cruising', but using tachometer and matching multi-function instrument that includes fuel gauge. £425
- Assemble panel and wire any of above £70

**INSTRUMENTATION PARTS**

- 4m wiring harness and plug connection £94
- 4m extension harness (2m £45, 8m £89) £57
- Push button for horn or other function £8
- Start/run switch and 2 keys (with heat position (40580/181235) £23) £14
- Warning light with 12v or 24v bulb £6
- Harness, start/run switch, 3 warning lights and starter relay £139
- HD relay for 24v starter on two 12v batteries with 12v alternator 180290 £176
- Run/stop solenoid, 12v, with internally switched hold coil, STD. (24v £107) £95
- Run/stop solenoid, 12v, with internally switched hold coil, H.D. (24v £135) £191
- Tachometer, 0/4000RPM, alternator or perception sensed with hour counter £56
- \* Tachometer, 0/5000RPM, perception sensor type (F) £99
- Perception sensor and harness, or tacho generator, insulated return £75
- Hand held digital tachometer £80
- Temperature gauge £19 sender with warning switch £10 Gauge & sender £29
- Oil pressure gauge £19 sender with warning switch £18 Gauge & sender £37
- Pressure sender, 5 BAR, insulated return, euro characteristic £67
- Fuel gauge £19
- Sender 300mm £33 450mm £40 600mm £47 Adjustable £56
- Boost pressure gauge, digital with sender for 1/8" NPT connection £50
- Gearbox pressure gauge 40 BAR £19 Sender £33 Gauge & sender £52
- Water tank level sensor and changeover switch for fuel gauge £78
- Battery voltmeter, digital 8-32v £19
- \* 4-in-1 temperature, oil pressure, tank level & 12v meter, with senders (F) £176
- Engine hour meter 6/12/24v (F) £51
- Ammeter (F) £28
- \* Rudder angle indicator with sender £135

All senders are earth return, except for fuel or as indicated

\* All instruments are for 12-24v DC operation, except \* which are 12v only  
Items identified (F) do not match the remainder of the instrument faces

- Standard instrument panel for 1 large and 4 small instruments £65
- Round panel and 3/4" chrome plated brass bezel £92
- Flybridge round panel and bezel with 3 warning lights, re-start button, 2-channel alarm and harness to main station £218
- 0/600PSI gearbox pressure gauge, direct mounting £77
- Intake blockage sensing alarm kit £89
- Over-temperature sensing switch, earth return (insulated return £17) £15
- Oil pressure switch, earth return (insulated return, adjustable £43) £10
- Oil pressure nipple & tee £5
- 2 channel warning siren, 12-24v £29
- "Smart" digital 12v alternator regulator for full charging of domestic batteries, waterproof (24v £185) £117
- Charge amplifier for 1 or 2 alternators with single or split output
- |                |                 |                 |
|----------------|-----------------|-----------------|
| 12v, 80A £283  | 12v, 130A, £322 | 12v, 300A, £575 |
| 24v, 80A, £322 |                 | 24v, 200A, £653 |

Load-split relay for combined charging of 2 separated batteries, up to 70A £10

Heavy-duty load-split relay for up to 200A FR166 £17

110/230v battery charger 12v 10A output Type ULTRA £205

110/230v battery charger 12v 30A output Type ULTRA £292

110/230v battery charger 24v 20A output Type ULTRA £390

24v DC to 12v DC, 70A converter/battery charger £78

12v DC to 24v DC, 40A converter/battery charger £361

12v or 24v inverter 230v 1800w output £312

12v or 24v inverter 230v 2700w output £312

230v battery charger, 12v, 55A output combined with 230v, 2500W inverter £971

230v battery charger, 24v, 25A output combined with 230v, 2500W inverter £971



STARTER MOTORS, NEW, STANDARD ROTATION		BOATBUILDER £		
ENGINE TYPES		12v E. Rtn	12v Ins Rtn	24v Ins Rtn
Ford XLD 1600 & 1800	110867	£110		
Ford Transit York & FSD 2.5	110461	£116		
Ford 4D, 2700 and 2720 series,	110465	£177**, top solenoid	£980* (co-ax)	£1220* (co-ax)
Ford 4D, 2700 and 2720 series	110462	£175**, side solenoid		£285, E.Rtn OT0
Ford 4D, 2700 and 2720 series	113380MC	£195**, bottom solenoid		£372, E.Rtn.
Ford and New Holland, H.D., 4Kw	87755550	£296, bottom solenoid	£980* (co-ax)	£1224* (co-ax)
Perkins Prima, 2873B059	112277	£495		
Perkins Pirama, 185086321	110552	£98		
Perkins 4-236 & 6-354	110443	£176		
BMC 1.5	N.A. *			
BMC 1.8	110444	£174		
BMC 3.4 to 5.7 & 98 series	110572	£191	£980 *	£224*
Yanmar 119733-77010	113207	£352		
Yanmar 119733-77200	113207	£306		

\* Most of these starters can be rebuilt at lower prices

\*\*12v insulated return also available. £90 extra

Other makes, models and variations are available



Ford 2700/2720 series starter motor

ALTERNATORS, NEW		BOATBUILDER
12v, 55A, earth return,	110770/110356	£83
24v, 45A, earth return,	112170	£220
12v, 70A, earth return, R.H.	111176/110891, L.H. also available	£98
12v, 90A, insulated return,	113152	£243
24v, 45A, insulated return	111510	£226
12v, 150A, large case, earth return		£190
24v, 60A, earth return,	111419	£309
24v, 75A, large case, earth return	112160	£163
24v, 55A, insulated return, (as AC5R) 66021623M/X, 111295		£350
all standard euro mount, single groove pulley		
Extra for 2-groove pulley, Ford spacing		£55
Extra for poly-vee pulley		£30
Other formats and higher powers in larger casings also available.		
Propeller shaft alternator kit, 12v, 22A low-speed cut-in at 950 RPM		£391
Fitting kit to suit selected gearbox or Stringer mount		P.O.A.
Kit to suit ZF10M-15M, including belt and pulley		£214



Shaft alternator assembly, fitted to ZF10 gearbox



Alternator



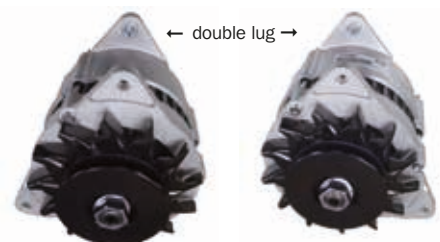
Battery cable and terminals



Battery switch



Battery isolator switch, on/off



Alternator LH

Alternator RH

BATTERY CABLE & TERMINALS		
50mm cross sectional area per metre		£12
70mm cross sectional area per metre		£17
95mm cross sectional area per metre		£21
Ring terminal connections 50mm M6 (2 per set)		£5
Ring terminal connections 70mm M6, M8 & M10 (2 per set)		£6
Ring terminal connections 95mm M8, M10 & M12 (2 per set)		£10
Battery post terminal connections 50-95mm (2 per set) 190866/867		£11
Battery switch, 4 position (on/off 250A 181614 £24)		£73

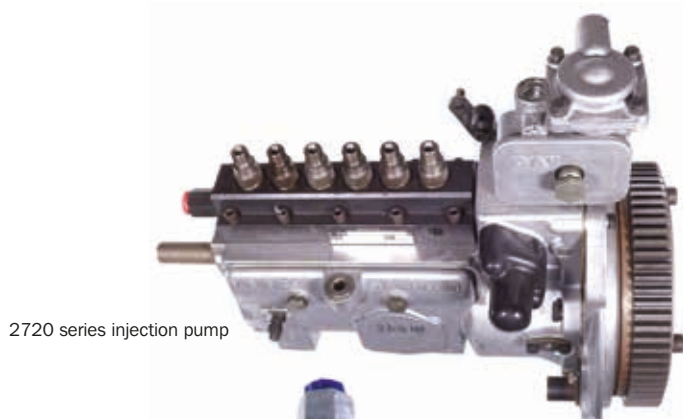
## VETUS DIESEL MARINE GENERATOR SETS

3000 RPM 50Hz		OPEN STYLE			HUSH-BOXED		
Kw	PHASE	DIMENSIONS	WEIGHT	NETT BOAT	DIMENSIONS	WEIGHT	NETT BOAT
		L X W X H, mm	Kg	LIST BUILDER	L X W X H, mm	Kg	LIST BUILDER
3.2	ONE	-----	--	----	560 X 420 X 395	95	£5300 P.O.A.
6.4	ONE	730 X 533 X 500	125	£7383 P.O.A.	780 X 465 X 560	185	£8329 P.O.A.
1500 RPM 50Hz		OPEN STYLE			HUSH-BOXED		
Kw	PHASE	DIMENSIONS	WEIGHT	NETT BOAT	DIMENSIONS	WEIGHT	NETT BOAT
		L X W X H, mm	Kg	LIST BUILDER	L X W X H, mm	Kg	LIST BUILDER
11	ONE	1070 X 490 X 575	315	£10137 P.O.A.	1120 X 585 X 630	395	£11270 P.O.A.

All gensets are fully marinised with heat exchanger cooling, sump pump (not on 3.2Kw), engine mountings and connection for wet exhaust, engine control panel and 6M harness. Also included is an installation package including waterlock, silencer, gooseneck (not with 3.2Kw), exhaust skin fitting, 3M exhaust hose, seacock & strainer and 2M water hose.

# Diesel Fuel System, Pumps, Parts & Injectors

NETT PRICES



2720 series injection pump



2725E Otosan lift pump



Ford injector



500 type filter assembly



Fuel hoses



Electric fuel pump



Fuel non-return valve kit



12 volt thermostart

## FUEL INJECTION PUMPS, RECONDITIONED, EXCHANGE

P5525-4B 6 cyl in-line 200HP 2720 series Dover turbo	£1150
P5182-1A 6 cyl in-line 135HP 2725E Dover non-turbo	£995
P5732-1 4 cyl in-line 85HP 2722E Dover non-turbo	£795
Core charge, pending return of old unit	£250

Most model injection pumps can be reconditioned.

Price dependent on parts and labour required.

## DE-SMOKING KIT

Ford turbocharged engines 150 – 300hp 6 cylinder, to reduce white smoke on start up, including re-calibration of injection pump £495

## FUEL LIFT PUMPS

## BOATBUILDER PRICES

Cummins 6BTA	(818)	£116
Ford 2.4 Litre York	(279)	£51
Ford 2.5Litre DI transit	090197 (521)	£43
Ford 2700 or 2720 series, diaphragm type	(276)	£40
Ford 2720 Horizontal Plunger		£97
BMC 1.5	(176)	£63
BMC 2.2 & 2.5	(211)	£49
BMC 4/98 6/98	early (171) 72-on (171)	£42
12v or 24v electric fuel lift pump, up to 300HP, 3/8" BSP, AS306560/62		£52

## INJECTORS

We require injector number to quote in detail.

Most injectors can be reconditioned,	from £55
Nozzles only, loose items	from £60

## FUEL PRE-FILTERS

Fuel line filter and bowl with re-usable filter element 8mm push on connections. (Metal bowl £5 extra) £45

Fuel line filter assembly Type 500, "no spill" element change, clear bowl, water drain, 8mm pipe or 10mm hose fittings and re-cleanable element. £69

Replacement element paper £8 Spare re-cleanable element £20

Fuel Filter with hand primer M14 (090203) £62

Water separator 1/2" UNF (090146) £88

Filter only, 1/2" UNF (090194) £43

Filter and Water separator, 1/2" UNF (090404) £53

Disposable Delphi HDF924 3 port £39

Disposable Delphi HDF952 2 port £39

## FUEL FILTER ELEMENTS

## BOATBUILDER PRICES

296 (P917X, 522, C1191PL, 6149716, 7235770)	£4
596	** £13
EFG87 (Ford FSD) EFG319, PSS960	£11

## PARTS

Non Return Valves with 1/4", 5/16" or 3/8" hose barb connection 080786 £8

Non return valve + T piece for inland waterways compliance injector leak off. £45

Flexible armoured hoses 60cm long to ISO 7840 A1,

inland waterways approved 1/4" £16 5/16" (8 mm) £22 3/8" £24

Hand primer pump Rubber Bulb type (9001-088A) 080703 £9

Hand primer plunger type, 1/2" UNF (091159) £26

Hand primer plunger type, M14 X 1.5 (080071) £26

Hand primer pump, with mounting, New Holland, 40 series, 8222 £72

Fuel pump control solenoids, from £65

Inland Waterways low pressure fuel pipe kit, to suit remote-mounted fuel filter, including feed and return hoses and NRV assembly Ford XLD £121 Ford FSD £142

Glow plugs FROM £13

Thermostart 2666103 electric fuel valve and igniter coil, 12v or 24v £14

## FUEL ADDITIVES

**Standadyne**, Performance Formula, Diesel Fuel Additive.

Enhances performance, improves fuel flow, reduces white smoke on start-up, inhibits "Diesel Bug" growth 500cc treats 120 litres £19

1 litre treats 235 litres £33



Throttle and shift control, single lever, side mount, flush, for 2x33c/C2 cables	(TMI)	£125
Throttle and shift control, single lever, top mount, for 2x33c/C2 cables	(TMT)	£121
Throttle and shift control, dual engines, single levers, top mount, for 4x33c/C2 cables	(TMT 2)	£204
Throttle and shift control, dual engines, single levers, top mount, for 2x33c/C2 cables with electric gearbox control switches	(single engine £190)	£360
Dual Station connection unit for push or pull speed control		£63
Dual Station connection unit for gearshift, with station selector, excluding cable		£100
Throttle and shift control with friction brake/detent for 2x33c/C2/40XL cables	(T-NBT)	£270
Two function control, top mount for 2x33c/C2 cables	(CQS 2)	£204
Single function top mount control for 33c/C2 cable	(CQS)	£121
Single function side mount control for 33c/C2 cable	(CQST)	£50
Two function side mount control for 2x33c/C2 cables	(CQST 2)	£98

Speed or shift cable C2 up to 10ft long (£1 per 1ft extra, 20ft max)	£22
Stop cable or latch cable 10ft long with end fittings (£1 per 1ft extra 30ft max)	£40
Speed or shift cable 33c, up to 15ft long (£1 per 1ft extra, 40ft max)	£29
Zero-lash control cables C-0 20ft long (£2 per 1ft extra, 56ft max)	£48
Ball joint, 3/16" for 33c/C0/C2 cables	£9
Clamp and shim for 33c/C0/C2 cables	£3
Adaptation kit, 2x33c/C2 cables to Mercruiser	£16
Speed and stop control attachment kit for Ford 2700/2720 Series	£45
Speed control attachment kit adaptable for Ford XLD or FSD	£22
Speed control kit for 4 and 6 cylinder Ford 2700/2720 Series, front entry	£58
Speed control attachment kit, Gardner (for 40XL)	£39
Speed and stop connection for Perkins 4-108	£58
Dual cable adaptation kit for pull speed controls	extra £22

## STEERING SYSTEMS Data Book Page 18

Hydra	LD20-32x178	Steering system, with hoses, excl. wheel	£551
		extra for LD28 helm head in lieu of LD20	£78
Hydra	LD28-40x178	Steering system, with hoses, excl. wheel	£670
Hydra	LD28-40x228	Steering system, with hoses, excl. wheel	£742
		extra for LD39 helm head in lieu of LD28	£132
	LD39-50x230	Steering system, with hoses, excl. wheel	£1109
	LD39-50x300	Steering system, with hoses, excl. wheel	£1147
		extra for LD45 in lieu of LD39	£98
		extra for HD68 Marsili helm head in lieu of LD39	£449
Hydra	LD28	Second station kit, with hoses and connections	£491
Hydra	LD39	Second station kit, with hoses and connections	£623
Marsili	HD68	Second station kit, with hoses and connections	£1030
		Steering wheels, various styles	from £42
		Ball joint, 1/2" UNF male shank, 1/2" I.D., for tie-bar ends	£11
		Ball joint, 5/8" UNF male shank, 5/8" I.D., for tie-bar ends	£15
		Cylinder by-pass valve and 2 Tee connections	£48

## TRIM TABS Data Book page 22

Bennett trim tab kits, complete system						
Width	30cm	45cm	60cm	75cm	90cm	120cm
30cm chord	£411	£438	£463	£474	£499	(Dual Ram) £861
Second station control and harness						
Additional rams and connections, per pair, with hydraulic tees						
24V motor pump in lieu of 12V						
Additional relay for use with long cables						
Electronic tab position indicator and control kit, with cable						
Second station indicator/control						
Trim Tab Kit complete, less plates						
Automatic tab retractor						
Add-on hatch lifter ram kit. 18" stroke						
Additional hatch lifter ram						
Dual independent ram hatch lifter and pump kit						
Spare 12V motor-pump-reservoir assembly						
Spare cylinder and connection (with Trimmer bottom bracket £94)						
Extra H.D. aluminium plates to take single S/S rams or 2 or 3 standard rams, custom made, up to 60cm x 60cm, in lieu of standard						
Twin pump, double acting trim tab kit, for above plates						
Trimmer tab cylinder						



Dual cable shift cable connection

Side mount control



LD28 helm head



Dual engine 'single lever' top mount control head



Dual throttle 'pull type' cable connections



Steering wheel



Control cable



Steering ram



Bennett trim tab kit

## BELL HOUSINGS

ENGINE	B/W	ZF5M-15 PRM	FACED FOR		500		PRICES	MOUNTS	
			120/150	260	750	1000		REAR	FRONT
B.M.C. 1.5	Y	Y**	Y	Y			£238	INC	£180
B.M.C. 1.8	Y	Y**	Y	Y			£238	INC	£149
B.M.C. 2.2 2.5	Y**		Y**	Y			£242	INC	£132
BMC 3.8 5.7	Y			Y	Y		£303	INC	£135
Chevrolet, I-4, V-6, V-8, & Diesel	Y						£207	N/A	£102
Ford FSD & 2400 York	Y		Y	Y	A		£246	INC	£103
Ford XLD	Y	Y	Y	Y**			£214	INC	£85
Ford 2700 2720	Y						£228	£104	£107
Ford 2700 2720				Y	Y	Y	£245	£104	£107
Ford 2700 heavy flywheel	Y						£251	£104	£107
Ford 2700 heavy flywheel, thick face					Y	Y	£287	£104	£107
Ford 2700 2720	TO SAE 3						£233	£104	£107
Gardner	Y			Y	Y	Y	£469	£174	£174
Gardner	TO SAE 2/3						£464	£174	£174
Izusu 2.8	Y						£312	N/A	N/A
Land Rover	Y**		Y**	Y			£302	INC	N/A
Mercedes 180	Y	Y	Y				£214	INC	N/A
Mercedes 190 220 240 300	Y		Y	Y			£247	INC	£110
Mercedes 352 auto or ind.	TO SAE 3						£440	N/A	£116
New Holland Diesel	TO SAE 3						£291	INC	£130
Perkins 4-108	Y	Y	Y				£413	INC	£96
Perkins 4-203 4-236 6-354	Y						£622	INC	£96
Perkins 4-236 6-354 2-PCE	Y			Y	Y		£524	INC	£105
Peugeot XD2 TO 5	Y		Y	Y**			£311	INC	£96
Peugeot XUD/205	Y	Y	Y				£344	INC	£207*
Rover V-8	Y						£261	N/A	N/A
Rover Montego & Maestro	Y**	Y	Y				£237	INC	£126*

\* ALSO RE-MOUNTS ALTERNATOR \*\*£47 extra A = requires adaptor

Any non-listed engine; Cut, weld and re-face existing automotive aluminium bell housing £455



Ford 2700 &amp; 2720/PRM 500 &amp; 750



Ford XLD/B-W



Perkins 4-108/Hurth-ZF



Outlet FM660



Outlet FM240



Outlet BL180 45°



Thermostat housing cover, Ford single



Cast aluminium turbo outlet



2" x 3" elbow duct



2" x 3" offset duct

## INJECTION OUTLETS

FM160 PE180 MB180 MB220 VW150 FM180 FM200 BL180 BL250	£51***
FM240 MB300 PG210	£52***
FM440 450 452 660 662	£65
PE390 PE580 GM370 GM550	£65
MB380 MB570 BL380 BL570	£65
FM420 422 620 622	£74
Volvo D70, Turbo-sub, FM402, FM602, 45° down-angle	£115
Gardner 6LX 6LXB	£219
Watercooled Turbo, 4" outlet	£273
Aircooled Turbo, 4" outlet	£306
***45 Degree down-angle also available, similar fitments,	£64

## OTHER MOUNTING BRACKETS

Ford 2700 LH incl. alt mount*	£78
Ford 2700 RH	£52
Cummins B series, pair, front	£151

## MISCELLANEOUS ITEMS

Ford 180 cross-over duct	£112
Ford 180 Turbo to charge cooler duct	£103
51mm to 76mm offset or elbow air duct	£49
Thermostat housing cover, Ford Single	£52
Thermostat housing cover, Ford Dual	£71
XLD Vacuum pump aperture cover	£62
XLD Intake manifold	£205
Thermostat housing cover, Perkins 4-99/108	£65



Mercedes front mount brackets and rubbers



XLD vacuum pump aperture cover



NHD front mount brackets and rubbers



FLYWHEEL HOUSING SPACERS			THICKNESS		
SAE 1, housing bore 20 $\frac{1}{8}$ " (511.2mm)			25mm		£472
SAE 2, housing bore 17 $\frac{1}{8}$ " (447.7mm)			25mm		£410
SAE 3, housing bore 16 $\frac{1}{8}$ " (409.6mm)			25mm		£350
SAE 4, housing bore 14 $\frac{1}{4}$ " (362mm)			25mm		£290
SAE 5, housing bore 13 $\frac{3}{8}$ " (314.3mm)			25mm		£235
SAE 6, housing bore 10 $\frac{1}{2}$ " (266.7mm)			25mm		£185
SAE 7, housing bore 8 $\frac{1}{4}$ " (209.55mm) (Borg Warner)/SAE7			10mm, 16mm, 22mm, 28mm & 32mm		£63
FLYWHEEL HOUSING ADAPTERS			THICKNESS		
Borg Warner/SAE7 housing to IRM220A and Twin Disc MG502			22mm		£179
Borg Warner/SAE7 housing to PRM Delta			15mm		£61
Borg Warner/SAE7 housing to hydraulic pump mounts			10mm		£185
FLYWHEEL HOUSING REDUCERS					
EFFECTIVE THICKNESS			EFFECTIVE THICKNESS		
SAE 1 to SAE 2	13mm	£472	SAE 2 to SAE 3	13mm	£410
SAE 1 to SAE 3	13mm	£472	SAE 3 to SAE 4	13mm	£350
FLYWHEEL HOUSING INCREASE ADAPTORS			EFFECTIVE THICKNESS		
SAE 3 to SAE 1			20mm		£472
GEARBOX TO SHAFT COUPLING ADAPTORS AND SPACERS					
GEARBOX FLANGE, SIZE & TYPE	TO SHAFT FLANGE SIZE & TYPE		#	THICKNESS	
4" Borg Warner	4" Borg Warner	AB	49	10, 15, 20, 25, 30, 35 & 40mm	£70
4" Borg Warner	5" Borg Warner	RD	351	52.4mm	£44
5" Borg Warner	5" Borg Warner	AB	59	10, 15, 20, 25, 30, 35 & 40mm	£80
5" Borg Warner	1350/1410 Hardy-Spicer	LM	2196	12mm	£55
4 $\frac{3}{4}$ " IRM220A	6" PRM	RD	148	55.4mm	£120
5" Borg Warner	6" PRM	RD	411	55.4mm	£120
5 $\frac{3}{4}$ " Twin Disc or 6" PRM	5 $\frac{3}{4}$ " Twin Disc or 6" PRM	AB	69	10, 15, 20, 25, 30, 35 & 40mm	£107
6" PRM	5" Borg Warner	-		52mm or 25mm	£120
7 $\frac{1}{4}$ " PRM	6" PRM or 5" Borg Warner	-		25mm	£170
Alter adaptor or coupling spigot from male to female					£60
Spigot to convert any female coupling to male					£30
Many other adaptors available on request					P.O.A.

## Machining & engineering facilities

### MACHINING CAPABILITIES

#### LATHES

Max tube or Shaft diameter if more than 48" long	2 $\frac{3}{4}$ "
Max tube diameter if less than 48" long	8"
Max diameter mounted to face plate	27"

#### SLOTING

Max stroke 4" long,  $\frac{1}{2}$ " wide

#### SURFACE GRINDING

Steel 5" wide x 12" long magnetic base

#### GEAR CUTTING

Straight cut, helical & spiral, splining & broaching

#### MILLING

Universal mill with 48" bed

"2D" mill for accurate x-y and rotational work

#### DRILLING

Pillar drill

4 spindle production drill bench

#### DYNO POWER TESTING

Engine power testing up to 250HP per hour £75

#### WELDING

Open arc and M.I.G. for mild or stainless steel

#### HYDRAULIC PRESS

10 ton and 50 ton



## Gearboxes

		COOLER SIZE		GEAR RATIOS			MAX DIESEL HP/100RPM PLEASURE USE	FLANGE SIZE	LIST PRICE	OUR PRICE
PRM 60 (due mid-2017)	internal	1.5	(2.0) (2.5)				0.98(0.85)	4"	£510	<b>£364</b>
Techno Drive TMC 40P (Twin-disc MG340)	—	<b>1.5</b>	<b>2.0 (2.6)</b>				1.0(0.7)	4"	£661	<b>£532</b>
PRM 90	internal		<b>2.0 (2.5)</b>				1.26(1.1)	4"	£590	<b>£418</b>
TMC 60P (Twin-disc MG360)	(L.H. only) TM	<b>1.6</b>	<b>2.0 (2.5) [2.9]</b>				2.1(1.7)[1.4]	4"	£926	<b>£746</b>
Techno Drive TMC 60A, 7° Angle Drive	—		<b>2.0 2.5</b>				1.8	4"	£926	<b>£748</b>
PRM 125	internal		<b>2.0 (2.5) [3.0]</b>				1.75(1.4)[1.15]	4"	£758	<b>£541</b>
ZF 12M (HBW125)	(L.H. only) H		<b>2.1 (2.6)</b>				1.8 (1.5)	4"	£1425	<b>£1065</b>
ZF 15M (HBW150)	(L.H. and 54 H.P.+)H	1.6	1.9				2.0	4"	£1788	<b>£1337</b>
ZF 15MA 15° Angle Drive	(L.H. and 54 H.P.+)H		1.9 (2.1) [2.6]				2.0(1.8)[1.5]	4"	£1985	<b>£1484</b>
ZF 15MIV, 15° V-Drive	(L.H. and 34 H.P.+)H		2.1 (2.7) (3.0)				2.0(1.5)	4"	£3582	<b>£2679</b>
PRM 150	1	<b>1.5</b>	<b>2.1 2.8</b>				2.1	4"	£1133	<b>£790</b>
ZF 30M	H		2.1 2.7				3.2	4"	£2325	<b>£1739</b>
ZF 25	1		2.0 (2.8)				4.4(3.4)	4"	£2018	<b>£1509</b>
ZF 25A 8° Angle Drive	1	1.5	1.9 (2.3) (2.7)				4.4(3.5)	4"	£2018	<b>£1509</b>
Techno Drive TMC260	(L.H. only) TM	1.5	<b>2.0 (2.5) [2.9]</b>				3.0(2.5)	4"	£1203	<b>£969</b>
PRM 280 Drop Centre	1		<b>2.0 2.9</b>				3.9	5"	£1650	<b>£1169</b>
PRM 260 Coaxial	2		<b>2.0 2.9</b>				3.6	5"	£2076	<b>£1484</b>
ZF 25M (HBW250)	(L.H. and 54 H.P.+)H		<b>1.9 (2.3) [2.7]</b>				3.5(2.9)[2.4]	4"	£2113	<b>£1580</b>
ZF 25MA 8° Angle Drive	(L.H. and 54 H.P.+)H		2.2 (2.7)				2.9(2.4)	4"	£2113	<b>£1580</b>
Techno Drive 345	1	[1.5]	<b>2.0 (2.5)</b>				[4.8]3.9(2.9)	5"	£1832	<b>£1475</b>
Techno Drive 345A, 8° Angle Drive (Twin-disc MG5005A)	1	[1.5]	2.0 (2.5)				[4.8]3.9(2.9)	5"	£1919	<b>£1547</b>
Velvet Drive 71	1	<b>1.0</b>					5.7	4"	£2020	<b>£1631</b>
Velvet Drive 71L aluminium replacement	1	<b>1.0</b>					7.8	4"	£2535	<b>£2047</b>
Techno Drive TM93 (Twin-disc MG5012SC)	2	[1.5]	<b>2.1 (2.4) (2.8)</b>				[7.2]6.2(4.8)	5"	£2323	<b>£1872</b>
ZF 45-1	1		2.2 2.5 3.0				6.3	5¾" TD	£2885	<b>£2157</b>
ZF 45-1	2		3.74				6.3	5¾" TD	£3248	<b>£2429</b>
ZF 45A 8° Angle Drive	1	[1.3] 1.5	2.0 (2.4)				6.3 (5.9)	5" [4"]	£2737	<b>£2047</b>
PRM 500 Drop Centre	2	<b>1.5</b>	<b>1.9 (2.6) (2.9)</b>				6.4(6.2)	6"	£2380	<b>£1701</b>
Techno Drive TM93A, 8° Angle Drive	2	<b>1.5</b>	<b>2.1 2.4</b>				6.6 (4.8)	5"	£2410	<b>£1942</b>
Velvet Drive 72	2		<b>1.9</b>				7.1	5"	£5499	<b>£4440</b>
Velvet Drive 72CH, 15° V-Drive rotation opp. engine	3	1.2 1.5	2.0 2.5				5.7	5"	£7847	<b>£6336</b>
Velvet Drive 72G, 15° V-Drive as engine rotation	3	1.2 1.5	2.0 2.5				7.1	5"	£7019	<b>£5666</b>
ZF 45C	1	1.0					7.4	4"	£1782	<b>£1332</b>
PRM 750 Drop Centre	3					<b>4.0</b>	8.0	6"	£3064	<b>£2190</b>
PRM 750 Drop Centre	2		<b>2.6 2.9</b>				8.0	6"	£2698	<b>£1929</b>
PRM 750 Coaxial	3		<b>2.6 2.9</b>				8.0	6"	£3051	<b>£2181</b>
ZF 63A, 8° Angle Drive	2½		2.7				8.4	5"	£3290	<b>£2460</b>
Velvet Drive 72, cast iron	1	<b>1.0</b>					8.6	5"	£3284	<b>**£2655</b>
Velvet Drive 72L aluminium replacement	1	<b>1.0</b>					11.9	5"	£2535	<b>£2047</b>
Velvet Drive 72	2	<b>1.5</b>	<b>(2.1) 2.6 (2.9)</b>				8.6 (7.1)	5"	£4366	<b>£3525</b>
ZF 63	2½		1.7				9.6	5"	£4084	<b>£3054</b>
ZF 63	2½	1.5	1.9 (2.5) (2.8)				9.6(7.9)	5"	£3553	<b>£2657</b>

Gear ratios in **bold type** are generally available for **prompt delivery** from our **stock** of over 80 gearboxes. Others may take some weeks.

On imported items prices may vary with exchange rates. For commercial operation request information on power ratings.

\*\* While stocks last

Prices charged will depend on manufacturers' prices and exchange rate at the time of order.

**Always fit a new flywheel drive plate and oil cooler when fitting a new gearbox**



Borg Warner 72C



PRM 125



PRM 150



PRM 280D



PRM 500D



PRM 750CB



ZF 10A



# Gearboxes

COOLER  
SIZE

GEAR RATIOS

MAX DIESEL  
HP/100RPM  
PLEASURE USE

FLANGE  
SIZE

LIST  
PRICE

OUR  
PRICE

ZF 63	2½	1.2						9.6	5"	£3682	<b>£2754</b>
ZF 63A, 8° Angle Drive	2½	1.2		1.6	2.0	(2.5)		9.6(8.4)	5"	£3217	<b>£2406</b>
ZF 63IV, 12° V-Drive	2½	1.3		1.6	2.0	(2.5)		9.6(8.8)	5"	£4253	<b>£3181</b>
ZF 63C	2½	<b>1.0</b>						9.6	5"	£1931	<b>£1444</b>
Velvet Drive 5000A, 8° Angle Drive	2½	1.0	1.2	1.5	2.0	2.5	(2.8)	11.4	5"	**£3496	<b>**£2823</b>
Techno Drive TM170 (Twin-disc MG5020SC)	2½	<b>1.5</b>			<b>2.0</b>	<b>(2.5)</b>	<b>[2.9]</b>	10.5 (7.2)	5"	£2556	<b>£2059</b>
PRM 750 Drop Centre	2½	<b>(1.1)</b>	<b>(1.5)</b>		<b>1.9</b>			(10.5)9.5	6"	£2559	<b>£1829</b>
PRM 750 Coaxial	3	<b>(1.1)</b>	<b>(1.5)</b>		<b>1.9</b>			(10.5)9.5	6"	£2999	<b>£2144</b>
Convert PRM 750D to PRM 750A, 8°	+1							9.6		£955	<b>£689</b>
Velvet Drive 72L, 12° V-Drive	2½	1.2	1.5					11.3	5"	£3316	<b>£2679</b>
Velvet Drive 72L	3	1.0						11.9	4"	£2535	<b>£2047</b>
ZF 220	3	1.0			2.0	2.5		11.9	5¾" TD	£4436	<b>£3318</b>
ZF 220	3	1.1	1.2	1.4	1.5		(3.0)	11.9(10.3)	5¾" TD	£4768	<b>£3529</b>
Velvet Drive 6000A, 8°, Angle Drive	2½	1.0	1.2	1.5	2.0	2.5	2.8	11.4	5"	£4202	<b>£3393</b>
Twin Disc MG 5050A, SAE3, 10°, Angle Drive	3	1.1	1.5		1.8	2.0	(2.5)	13.0(11.4)	5¾" TD	£5978	<b>£5435</b>
Velvet Drive 6000V, V-Drive	2½	1.2				2.5		12.4(10.5)	5"	£4905	<b>£3961</b>
ZF 220 A, 10° Angle Drive	3	1.2			1.8		(2.5)	12.5 (11.5)	4¾" TD	£4679	<b>£3499</b>
ZF 220 A, 10° Angle Drive	3		1.5		2.0			12.5	4¾" TD	£4373	<b>£3271</b>
PRM 1000 Drop Centre	3						<b>4.0</b>	11.5	7¼"	£4017	<b>£2872</b>
PRM 1000 Drop Centre	3				2.0	<b>(2.9)</b>		12.6(11.5)	6"	£3458	<b>£2472</b>
Techno Drive TM880A, 10° Angle Drive	3		1.5		2.1	(2.6)		13.3	5"	£3083	<b>£2146</b>
Velvetdrive 72LX	3	1.0						14.2	5"	£3781	<b>£3053</b>
ZF 280 IV, 14° V-Drive	3		1.2	1.6	1.8		(2.6) [3.0]	18.7(16.2)[13.6]	5¾" TD	£7653	<b>£5724</b>
Techno Drive TM265A, 7° Angle Drive	3		<b>[1.4]</b>		<b>2.1</b>	<b>2.3</b>		[14.9]13.7(12.5)	5¾" TD	£3950	<b>£3184</b>
PRM 1000 Drop Centre	3		<b>1.5</b>					14.4	6"	£3382	<b>£2418</b>
Convert PRM 1000D to PRM 1000A, 10°	+1							13.0	—	£1345	<b>£971</b>
ZF 85A, 8° Angle Drive	3		1.6		1.8	2.0	2.5	14.9	5¾" TD	£5010	<b>£3747</b>
ZF 85IV, 12° V-Drive	3		1.6		2.0	2.5		14.9	5¾" TD	£6694	<b>£5007</b>
Techno Drive TM265	3	1.2	1.5		2.1	2.8		15.0	5¾" TD	£3542	<b>£2854</b>
ZF 280-I	3						3.0	15.3	5¾" TD	£6230	<b>£4660</b>
Velvet Drive 72LH	3	1.0						19.0	5"	£6280	<b>£5071</b>
ZF 280 IV, 14° V-Drive	3				2.1	(2.3)		18.8(16.1)	5¾" TD	£7179	<b>£5389</b>
ZF 280-I	3	0.8	1.1	1.2	1.5			18.8	5¾" TD	£6201	<b>£4638</b>
ZF 280-I	3	1.0		1.3		2.0	(2.5)	18.8(16.1)	5¾" TD	£5822	<b>£4354</b>
ZF 280-IA, 7° Angle Drive	3	1.1			2.2	(2.5)		18.8(16.2)	5¾" TD	£6201	<b>£4683</b>
ZF 280-IA, 7° Angle Drive	3		1.5		1.8	2.0		18.8	5¾" TD	£5878	<b>£4396</b>
Techno Drive TM1200A, 7° Angle Drive	4		1.4		2.0	(2.3)		19.6 (16.7)	7¼" TD	£3788	<b>£2904</b>
PRM 1500DC SAE1, 2	4				3.1	3.9	4.5 (4.9)	21(18.3)	10½"	£9701	<b>£6936</b>
PRM 1500SC SAE3	3	1.2	1.6		1.9	2.2	2.4 (3.0)	21.0(18.9)	7¼" TD	£8525	<b>£6095</b>
PRM 1750DC SAE1, 2	5				3.1	3.9	4.5 (4.9)	WORKBOATS	10½"	£10389	<b>£7428</b>
PRM 1750SC SAE3	4	1.2	1.6		1.9	2.2	2.4 3.0	ONLY	7¼" TD	£8735	<b>£6245</b>
Twin Disc MG5091 SAE1	4	1.2	1.5		1.7	2.0	(2.5)	26.1(21.7)	7¼"	£9094	<b>£7343</b>
Velvet Drive 72-L HP for MCR#6 or flange	3	1.0						26.7	Choice	£9363	<b>£7560</b>

Gear ratios in **bold type** are generally available for **prompt delivery** from our **stock** of over 80 gearboxes. Others may take some weeks.

On imported items prices may vary with exchange rates. For commercial operation request information on power ratings.

Prices charged will depend on manufacturers' prices and exchange rate at the time of order.

**Always fit a new flywheel drive plate and oil cooler when fitting a new gearbox**



TWIN DISC MG5091



ZF 63A



PRM 1000A



ZF 220A



ZF 85IV

Gearboxes

## Gearbox repair parts and oil cooler kits

BOATBUILDER PRICES

## GEARBOX REPAIR PARTS



Borg Warner forward clutch kit



Borg Warner seal kit



Hurth overhaul kit



PRM DELTA seal kit MT01656



PRM 500 seal kit MT0434



Oil cooler kit size 2HD



PRM 500 oil pump



Borg Warner parts



PRM parts

**Borg Warner**

	SEAL & GASKET SET	CLUTCH PACK FORWARD	OIL PUMP	DIPSTICK	WORKSHOP MANUAL & PARTS LIST BREATHING
10 17 & 10 18 (AS70, AS71C, AS72C)	£33	£105	£156**	£47	£15
10 13 & 10 14 (71CR2 & 72CR2)	£50	£105	£156**	£47	£15
73	£76	£152	£156**	£47	£15
10 04 & 10 05 [Vee drive]	£33 [£109]	£105	£156**	£47	£15
5000	£217	£285	£960**	£49	£15

**PRM**

	SEAL & GASKET SET	CLUTCH PACK FORWARD	OIL PUMP	DIPSTICK	WORKSHOP MANUAL & PARTS LIST BREATHING
DELTA	MT0165 £19	MT0164 £230	MT0421 £342	£25	—
80, 120	MT0428 £16	£155(cone)	—	£25	—
100, 101,140	MT0382 £25	MT0079 £167	SHAFT £60	£25	£8
150	MT0433 £23	MT0436 £112	MT0421 £342	£25	—
160, 260	MT0382 £25	MT0079 £167	MT0296 £418	£25	£8
175, 250, INNER PLATES ONLY	MT0381 £45	SET OF 9 £186	SHAFT £75	£25	£8
265 INNER PLATES ONLY	MT0381 £45	SET OF 9 £186	SHAFT £75	£25	£8
310	MT0381 £45	MT0064 £230	SHAFT £75	£25	£8
301, 302, 401, 402	MT0381 £45	MT0349 £211	MT0549 £474	£25	£12
500	MT0434 £35	MT0349 £211	MT0549 £474	£25	£12
601M / D / A	MT0238 £45	MT0264 £310	MT0548 £485	£25	£12
750	MT0435 £38	MT0349 £211	MT0549 £474	£25	£12
1000D / A	MT0443 £57	MT0432 £277	MT0548 £484	£25	£20

**Hurth / ZF****REPAIR KIT**

	SEAL & GASKET SET	CLUTCH PACK FORWARD	OIL PUMP	DIPSTICK	WORKSHOP MANUAL & PARTS LIST BREATHING
HBW 5, HBW100 (ZF10M)	£33	£264 (inc. rev.)*	—	—	—
HBW10, HBW125 (ZF12M)	£44	£277 (inc. rev.)*	—	—	—
HBW 150 (ZF15M) [Vee drive]	£44 [£150]	£277(383) (inc. rev.)*	—	—	—
HBW20 HBW250 (ZF25M)	£45	£405 (inc. rev.)*	—	—	—
ZF45A	£89	£559 (inc. rev.)	£845***	£15	£9
ZF63A	£84	£593 (inc. rev.)	£845***	£15	£9
HSW 800 (ZF80)	£93	—	£638	—	£9
IRM220A	£103	£802 (inc. rev.)	£315	—	£6

Seal face restorers are available to repair worn, input &amp; output shafts and output flanges. From £35

Parts for other models and brands are available on request

\*includes thrusts

\*\* Improved type 3000508001 £172

\*\*\* Filter for ZF 25, 45 &amp; 63 £28

## GEARBOX OIL COOLERS

	MAX WATER FLOW LT/MIN	OE TYPE £153	LM TYPE £54
Gearbox oil cooler kit, sizes H and TM for water jacket only	—	std. £97	PRM150 £128
Gearbox oil cooler kit, size 1 or 2, contact cooled for steel hulls	—	std. £96	PRM150 £127
Gearbox oil cooler kit, size 1 (22, 28 or 32mm water)	60	std. £122	HD £152
Gearbox oil cooler kit, size 2 (22, 28 or 32mm water)	60	std. £161	HD £191
Gearbox oil cooler kit, size 2½ (32 or 1½" B.S.P. water)	60	std. £192	HD £222
Gearbox oil cooler kit, size 3 (32 or 1½" B.S.P. water)	180	std. £235	HD £252
Gearbox oil cooler kit, size 4 (32 or 1½" B.S.P. water)	180	std. £266	HD £282
Gearbox oil cooler kit, size 5 (32 or 1½" B.S.P. water)	180	—	HD £345
Gearbox oil cooler kit, size 6 (2" BSP water)	270	—	—

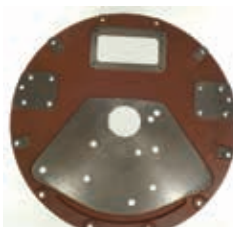
Hoses on HD versions are pre-formed hydraulic 13" and 20". Other lengths to order.

## WORKSHOP REPAIRS

Repairs are carried out to all the above models in our workshop, phone to make an appointment.



	SAE.1	SAE.2	SAE.3	SAE.4	SAE.5	B/W
Steel Flywheel Housing Cover, machined for selected gearbox (special aluminium for Delta)	£472	£410	£350	£290	£235	£180
Cast Iron Flywheel Housing Cover for PRM 1000 (steel)	(£472)	£321	£241	—	—	—
Cast Iron Flywheel Housing Cover for PRM 500-750	—	£197	£177	£137	—	£150
Cast Iron Flywheel Housing Cover for PRM 260	—	—	£164	£181	£172	£95
Flywheel Housing Cover for ZF (220)-280	—	£375 (411)	£319 (365)	—	—	(£179)
Aluminium Flywheel Housing Cover for PRM with mounting feet	—	£350	£340	£320	—	—
Aluminium Flywheel Housing Cover for B/W and ZF 45A to 80 (steel)	—	(£337)	£291	£268	£245	—
Aluminium Flywheel Housing Cover for B/W and ZF 45A to 80, with mounting feet	—	£331	£322	£302	—	—
Aluminium Flywheel Housing Cover for PRM 120-150, ZF 4M-15M (25M)	—	—	—	£163	£120	£61(£86)
Adapter to fit PRM80-150, ZF10-12 and TMC60-260 in place of MS2	£231					
B/W Housing Spacer, 10, 16, 22, 28 or 32mm thick	£63					
Live P.T.O. for PRM 280, size B flange (not for retro-fit)	*£205					
Live P.T.O. for PRM 500 or 750, size B flange	*£305					
Live P.T.O. for PRM 1000, size B flange	P.O.A.					
Clutched P.T.O. for PRM 1000, size B flange as O.E., or on firm shift box	*£849					
Retro-fit on late type soft-shift boxes	*£969					
Clutched P.T.O. for PRM 1500, size B flange	*£1105					
P.T.O. cover plate, SAE B	£21					
Hydraulic pump to suit above P.T.O. assemblies, up to 65 L/min/1500 RPM, 200 Bar	from £160					
Troll Valve for PRM 260 to 1500	*with fixed slip speed £495					
	*with remote cable controlled variable slip speed £775					
Angle Drive, retro-fit, for PRM 500 & 750	*£975					
Angle Drive, retro-fit, for PRM 1000	*£1478					
All * items require 1 size larger oil cooler						
Low speed oil pump in place of standard pump on PRM 1000 (Retro-fit £448)	F.O.C.					
"Extra sft shift" for existing soft and firm controls	£250					
Electric shift control valve on ZF 25 to 85, in lieu of standard, ('C' boxes £334)	£514					
Electric shift control valve on ZF 220 and 280, in lieu of standard (220 A £934)	£63					
Electric shift on Velvet Drive 6000 and 72L series	£341					
Oil filter blanking kit for PRM models 100, 140, 175 & 265	£9					
Gear shift attachment kit for PRM 60-125, all Technodrive	£54					
Gear shift attachment kit for PRM 150	£54					
Gear shift attachment kit for PRM 260-1000	£54					
Gear shift attachment kit for Velvet Drive	£54					
Gear shift attachment kit for ZF M types	£54					
Gear shift attachment kit for ZF 25 to 80	£54					
Second shift cable attachment kit	extra £67					
General purpose attachment kit and ZF 220 upwards	£8					
Engine mount packing plates, 102mm C/C, 10mm, 12mm or 19mm thick, set of 4	£95					



Adapter plate PRM to SAE3



Adapter plate ZF10 to Borg Warner



Driveplate R&D 13B4



Clutched P.T.O. for PRM 1000



Shift connection kit for PRM 260-1000

## FLYWHEEL DRIVE PLATES

## BOATBUILDER

R&D TYPE	RATING HP/ 100 RPM	BACKPLATE DIAMETERS	PART NUMBERS			
GEARBOX MODELS			GEARBOX	ELEMENT	BACKPLATE	
ZF5M-15, PRM260, B/W	1.9	6⅜", 151mm	22/13/2	AM/B	4/16	£62
ZF5M-15, PRM260, B/W	1.1	9¾"	22/13/2	A	48	£76
ZF5M-15, B/W	1.9	9 <sup>15</sup> / <sub>16</sub> ", 10 <sup>3</sup> / <sub>8</sub> ", 12 <sup>1</sup> / <sub>8</sub> "	22/2	AM	18/19/20	£100
ZF5M-15, PRM260, PRM500, B/W	3.9	9 <sup>15</sup> / <sub>16</sub> ", 10 <sup>3</sup> / <sub>8</sub> ", 12 <sup>1</sup> / <sub>8</sub> ", 13¼"	43/45/46/42	AG	129/130/131/65	£129
PRM260, PRM500, B/W	4.8	12 <sup>1</sup> / <sub>8</sub> "	14/18/3	G	21	£116
PRM260, PRM500, B/W	5.7	7 <sup>1</sup> / <sub>8</sub> ",	15/20/7	J	7	£93
PRM260, PRM500, B/W	5.7	12 <sup>1</sup> / <sub>8</sub> ", 13 <sup>7</sup> / <sub>8</sub> ", 14¼"	74/73/71	AL	21/48/22	£127
PRM260, PRM500, B/W	7.6	14¼", 15¾"	14/18/3	M	2/44	£104
PRM500, PRM1000, B/W	9.5	13 <sup>7</sup> / <sub>8</sub> ", 14¼", 15¾"	49/69/48	AD	5/2/44	£133
3mm spacer plate for "AD" elements		14¼"	—	—	2	£33
PRM500, PRM1000, B/W	10.5	13 <sup>7</sup> / <sub>8</sub> ", 15¾"	31/21/4	P	86/44	£131
PRM500, PRM1000, B/W	11.4	13 <sup>7</sup> / <sub>8</sub> ", 15¾"	52/51/50	AE	101/44	£166
PRM1000, SCG 32-spline	14.3	19"	21/27	S	30	£198
PRM1500, ZF280	22.8	13 <sup>7</sup> / <sub>8</sub> ", 18 <sup>3</sup> / <sub>8</sub> "	55	Z	79/78	£227
PRM1500, ZF280	26.6	13 <sup>7</sup> / <sub>8</sub> ", 18 <sup>3</sup> / <sub>8</sub> "	55	AH	79/78	£355

SURCHARGES FOR SPECIAL BACKPLATES - ON APPLICATION

## CENTAFLEX TYPE

CDFS 25 Borg-Warner Velvet Drive	9.8	SAE 11 1/2	£229
CFDS 25 PRM500/750	9.8	SAE 11 1/2	£174
First stage repair, rubbers and circlip			£55
CFDS 30 Borg-Warner Velvet Drive	14	SAE 11 1/2	£264
CFDS 30 PRM1000	14	SAE 11 1/2	£174
First stage repair, rubbers and circlip			£65
RS114 Borg Warner	44.2	SAE 11 1/2	£281
RS136 PRM1000	44.2	SAE 11 1/2	£383



Driveplate R&D, 'AG' type



Driveplate RS136



Driveplate CFDS30



Driveplate R&D 3M22

## Flexible &amp; shaft couplings

NETT BOATBUILDER

## GEARBOX TO SHAFT COUPLINGS

## BOATBUILDER

		MAX HP/100 RPM		
Flexible flange coupling 4" types 001, 002, 013, 014, 019, 020, 028, 043	(types 004, 005, 7HP/100 £62)	3 & 5	(double-flex £143)	£54
Propeller shaft half coupling, 4" for ¾", 1", 1¼" or 1½" shafts, or metric, stock 'B' sizes only			surcharge for non-'B' (£31)	£57
Flexible flange coupling 5" for ZF V-Drive, type 034		12		£193
Flexible flange coupling 5" types 009, 012, 036, 037, 044	(type 029, 20HP/100 £168)	8 & 13	(double-flex £280)	£97
Propeller shaft half coupling, 5" for 1", 1¼", 1½" or 1¾" shafts, or metric, stock 'B' sizes only			surcharge for non-'B' (£31)	£86
Flexible flange coupling 6" for ZF V-Drive, type 054	(type 063, 32HP/100 £519)	24		£377
Flexible flange coupling 6" type 003	(type 006 5¾" £167)	20	(double-flex £398)	£141
Flexible flange coupling 6" Heavy Duty type 025	(type 026 5¾" £216)	28	(double-flex £494)	£189
Propeller shaft half coupling, 6" or 5¾" T.D. for 1¼", 1½", 1¾", 2", 2¼" or 2½" shafts, or metric, stock 'B' sizes only			surcharge for non-'B' (£31)	£121
Flexible flange coupling 7¼" types 017, 018, 032, 033		40		£331
Solid propeller shaft half coupling 7½" bored and keywayed, stock sizes	(up to 2" tapered £340)			£315
Clamp-on propeller shaft half coupling 7¼" for shafts up to 2¾" and 70mm				£327
Flexible flange coupling 9" for Twin Disc types 038, 039, 040		59		£498
Solid propeller shaft half coupling 9" bored and keywayed, stock sizes	(up to 2¾" tapered £440)			£340
Adaptor 9" to 6" or 7¼" half coupling				£188
Adaptor 4¾" to 6" half coupling, type 384				£120
Adaptor/spacer for 6" to 5" half coupling, MT5030				£71
Adaptor 4" to 5" half coupling, type 351				£44
4" Bobbin to connect two 4" flexible couplings together, or to act as 88mm shaft extender, 169(44mm £60, 176mm £80)				£35
5" Bobbin to connect two 5" flexible couplings together, or to act as 50mm, 70mm, 102mm or 124mm shaft extender, 251/566				£86
6" Bobbin to connect two 6" or 5¾" T.D. flexible couplings together, or to act as 149mm shaft extender, 250			(T.D. £136)	£116
Flexible flange coupling, 2-bolt for T.M.P, Nicor & Bybrook, Type 060		3.2		£78



Flex coupling 910 009



Clamp coupling



Adapter



Bobbin

## CONSTANT VELOCITY JOINT ASSEMBLIES WITH THRUST BEARINGS

## NETT BOATBUILDER £

	Shaft size	HP/100	Kg thrust	
Aquadrive double universal joint, thrust bearing, gearbox adaptor & shaft coupling				P.O.A.
Python-Drive P30-R double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	¾" to 1½" (19 - 30mm)	4.1	438	£516
Python-Drive P60-K double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1¼" (30 - 40mm)	8.2	581	£573
Python-Drive P80-S double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1¼" to 1¾" (30 - 45mm)	11	1224	£772
Python-Drive P110-S double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1¾" to 1¾" (35 - 45mm)	15	1224	£845
Python-Drive P110-T double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1¾" to 2" (35 - 50mm)	15	1836	£1074
Python-Drive P140-T double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 2½" (40 - 55mm)	19	1836	£1384
Python-Drive P200-T double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 2¼" (40 - 60mm)	27	1836	£1913

Prices charged will depend on manufacturers' prices and exchange rate at the time of order. Larger sizes can be quoted for.

Python-Drive



## SHAFT-LOK

## NETT BOATBUILDER £

Model	TWO		THREE	
Disc diameter	7"	7"	12¼"	12¼"
Shaft space required	2"	2"	3"	3"
Maximum shaft diameter	1¼"	2"	2"	3"
Maximum propeller diameter at 8 knots, and				
pitch/diameter ratio of 0.6	26"	26"	30"	30"
pitch/diameter ratio of 0.8	24"	24"	30"	30"
pitch/diameter ratio of 1.0	22"	22"	26"	26"

For higher sailing speeds, request advice.

Price, basic unit with "Push the knob" engagement £731 £963 £1269 £1399

Extra charge for remote control cable operation, 10ft. £133 £133 £133 £133

SHAFT-LOK fits to the shaft between the shaft half coupling and the gland, so it is necessary that there is enough space for the disc to rotate clear of the bottom.

It is engaged by pushing down on the knob directly, or via the remote cable if fitted.

This is more easily done if the boat is brought head to wind for a short while or boat is slowed right down by use of reverse gear before shutting the engine off. It automatically unlocks after the engine is re-started and put into reverse gear for a moment

Shaft-Lok





	STOCK GEAR RATIOS	MAX PROP DIA	MAX HP/100RPM PLEASURE	
SternPowr 113, hydraulic trim & steering, excl. gearbox	1.32 (1.6)	19"	9 (7.5)	P.O.A.
Integral mounted Borg Warner 72, for 101, 111 & 113 drives, including intermediate housing			8.6	£2949
Propeller nosecone kit for Enfield and Sonic				£50
Set of 8 Transom bolts for Enfield and Sonic				£23
Extension for (15/16), Enfield or Sonic drive coupling 22cm to 60cm to order				£70
Gearshift attachment kit for Enfield (Bracket £11, cable end £25)				£38
Intermediate housing and universal joint shaft adapter				P.O.A.
Universal joint shaft, 30cm to 1.8m, with gearbox adaptor				£338
12/24v insulated return motor and relay for power trim, in lieu of 12v earth return				£195
Drive leg extension kit, with 2" spacer, fitted to drive. (Retro-fit P.O.A.)				P.O.A.

Prices charged will depend on manufacturers' prices and exchange rate at the time of order. SternPowr items offered subject to factory availability.

### THROUGH-HULL DRIVES

Technodrive Sea Prop 60, engine-mounted sail drive	2.15 (2.38)	18"	2.2 (1.65)	£1941
Vetus saildrive (only with Vetus engine)	2.23 2.49	18"	2.2	£2396
ZF Saildrive SD10	2.16	18"	2.2	** £1550

### SPARE PARTS FOR STERNDRIVES

	ENFIELD	STERNPOWR		ENFIELD	STERNPOWR
Drive shaft gaiter	£48	£140	Trim hose set (external)	–	£344
Universal joint repair kit (2 required per drive)	£94 & £176	£47 & £47	Anode set with screws	£26	£28
Seal and gasket kit	£11 & £23	£200	Input shaft flexible coupling (2 required per drive)	new type £47	–
Steering hose set (external)	–	£174	Repair manual and parts book	£12	£30



Steering hose set



Transom shield



SternPowr nose cone, nut and bolt



SternPowr gaiter

### SURFACE DRIVE UNITS

	BOATBUILDER
L.M. Transom Drive 14, single, with rudder and hydraulic steering, excl. gearbox	14" £3077
L.M. Transom Drive 17, single, with rudder and hydraulic steering, excl. gearbox	17" £3343
L.M. Transom Drive 20, single, with rudder and hydraulic steering, excl. gearbox	20" £3484
L.M. Transom Drive 14, pair, without rudders, with single transom-mounted rudder assembly, and hydraulic steering and helm head, excl. gearbox	14" £4613
L.M. Transom Drive 17, pair, without rudders, with single transom-mounted rudder assembly, and hydraulic steering and helm head, excl. gearbox	17" £5127
L.M. Transom Drive 20, pair, without rudders, with single transom-mounted rudder assembly, and hydraulic steering and helm head, excl. gearbox	20" £5315

### PROPELLERS FOR STERNDRIVE, SURFACE DRIVES AND THROUGH-HULL DRIVES

Aluminium 13" and 14" diameter for Enfield and Sonic	£170
Aluminium 17" x 21" L.H., cushion hub for SternPowr 80, 81, 101 and 111 (replaces SMC807)	**£395
Aluminium 17" diameter, small solid hub for SternPowr 81, 101 and 111, and 18" for Sea Prop 60	£547
Aluminium 19" diameter, solid hub for SternPowr 82, 83, 103 and 113	£592
Nibral, 17" diameter solid hub for Transom Drive 17, SternPowr 107 and MCR III SSM (4-blade £1153)	£685
Aluminium 20" diameter for SternPowr 90, 91, and 191	£687
Nibral 20" diameter, solid hub for Transom Drive 20 (4-blade £ 1566)	£899
Adaptor for Volvo type 14" to 16" propellers to SternPowr drives	£198



LM Transom Drive 20

\*\* Whilst stocks last



Transom-mounted rudder for Transom Drives 17 and 20

SHAFTS, TUBES AND BEARINGS

NETT BOATBUILDER

SHAFT SIZE	¾"	1"/25mm	1¼"/30mm	1½"/40mm	1¾"/45mm	2"/50mm	2¼"	2½"
Sterntube Aft Bearing Assembly, with Cutless								
Threaded, scoop-type Bronze, Bolt-in	–	£237	£254	£334	£424	£484	£542	£596
Steel, Weld/Cement-in	–	£65	£78	£102	£124	£173	£237	£250
Press-on keel-post mounting flange for rear of Brass/GRP Sterntube	£45	£46	£49	£49	–	–	–	–
Stern tubing, per 30cm, extra								
H.G. Steel	–	£14	£16	£31	£36	£42	–	–
G.R.P. to Glass-in or Cement-in, (0.6m or 1.2m only)	–	£18	£20	£22	£31	£31	–	–
Brass	£31	£44	£58	£66	£77	£90	£103	£119
Clamp-on bulkhead mounting flange for front of Brass/GRP Sterntube	£33	£34	£42	£55	–	–	–	–
Thread one end of brass tube for seal or bearing	–	£40	£40	£40	£40	£40	£74	£74
Solid, bolt-in, screw-on bearing and gland*	–	£110	£131	£146	£323	£370	£430	£490
Screw-on bulkhead mounting flange for front of Brass Sterntube	–	£65	£67	£81	£165	£165	–	–
Flexible Seal Assemblies								
Bronze Rubber-necked Gland*	£216	£128	£129	£150	£165	£165	£468	£468
Nylon Rubber-necked Gland	£105	£111	£112	£124	–	–	–	–
Phenolic rubber-necked gland, "Canal", with greaser	£63	£65	£71	£78				
Phenolic rubber-necked gland, "River", with water feed	£61	£63	£70	£77	£92	£104		
Deep Sea Seal Assembly incl. H.S. insert (set)	–	£170 (2)	£200 (5)	£220 (7)	£230 (8)	£240 (9)	£380 (11)	£460 (13)
P-Bracket and bearing								
Bronze, Glass-in, with Cutless	£245	£270	£350	£428	£509	£675	£821	£985
Mild steel P-bracket boss & phenolic bearing	–	£65	£78	£102	£124	£173	£237	£269
Intermediate Shaft Bearing	£58	£69	£95	£105	£121	£183	£223	£376
Cutless bearing, phenolic casing, std. sizes	£19	£21	£24	£27	£39	£46	£54	£60
Cutless bearing, brass casing, std. sizes	£31	£31	£38	£48	£71	£77	£120	£124
Cutless bearing, brass casing, with small outside diameter	–	£32	£36	£84	£106	£126	£157	£189
Propeller Shaft Tapered/Plain, type F51 Stainless Steel,								
with Keys, Washer and Nut, 0.9m Long	£148	£175	£220	£251	£285	£343	£393	£442
Shafting, per 30cm extra (up to 3m total. Longer P.O.A.)	£7	£9	£16	£20	£27	£37	£45	£57
Extra for Forward End Taper and Nut	–	£95	£105	£125	£133	£152	£170	£183
Spare key, brass (size)	£3(¾")	£3(¼")	£4(⅝")	£4(⅜")	£5(⅞")	£5(½")	£6(⅝")	£6(⅝")
Spare shaft nut, U.N.C. thread, bronze, hexagon (size)	£10(½")	£12(⅝")	£13(⅞")	£23(1")	£23(1")	£37(1¼")	£46(1½")	£46(1½")
Propeller Shaft Clamp-on anodes, H.D. Zinc/Aluminium	£22/£7	£23/£7	£23/£8	£32/£10	£66/£17	£66/£17	£70/£36	£83/£38
"Stripper" Propeller Shaft Rope Cutter (Blades)	£364(2)	£414(3)	£492(3)	£492(3)/£847(3)	£847(3)	£847(3)	£847(3)	£847(3)
R&D rope cutter	£122	£133	£144	£144	£150	£150	–	–
Rudder Tube								
Bronze, Glass-in with O-Ring Seal*	–	£68	£84	£100	£116	£135	–	–
Steel, Cement/Weld-in with Nylon Bearing and Top Bush	–	£118	£143	£178	£206	£235	£267	£283
G.R.P. with Nylon Bearing and Top Bush	–	£73	£90	£106	£130	£151	£191	£228
Bronze bush and cutless bearing in lieu of nylon								
in either steel or GRP tubes, extra *		£76	£83	£88	£95	£102		
Tiller Arm, Keywayed Clamp-on	–	£117	£117	£117	£205	£205	P.O.A.	P.O.A.

\*Remote Greaser Kit required with these items £56

Gland packing, per foot (size)

£2.50(¼") £3(⅝") £3.50(⅜") £5.50(½") £8(⅝")

Larger sizes and other metric sizes available. Prices on application.

RUDDERS AND STOCKS Data Book Page 22

BLADE SIZE (cms)	20x30	25x38	30x46	38x56	45x66
Mild Steel Rudder Blade with Welded-on Stainless Steel Stock	£206	£236	£274	£331	£396
Stainless Steel Rudder Blade with Welded-on Stainless Steel Stock	£224	£303	£358	£503	£713
Extra for bottom spigot, welded on	–	£45	£45	£45	£45



Deep sea seal



Rubber necked gland



Stem tube and cutless bearing



Rudder stock and blade



FIXED	2 BLADE	3 BLADE	3 BLADE	3 BLADE	3 BLADE	4 BLADE	
Blade area ratio	33% W	43%	50% C	52%	65% C	67% C	MAX SHAFT
Blade shape	Turbine	Radice	Turbine	Radice	Equipoise	Hyperform 73	SIZE
Diameter, ins	Mag. Bronze	OT Bronze	Mag. Bronze	OT Bronze	N.A.B.	N.A.B.	ins/mm
12	£192	£245	£242	£255	£358	–	1½"/28
13	£214	£290	£252	£315	£368	–	1½"/28
14	£217	£310	£265	£325	£391	–	1½"/31
15	£227	£320	£281	£330	£398	£568	1½"/40
16	£254	£340	£302	£370	£441	£590	1½"/40
17	£278	£370	£324	£400	£477	£611	1½"/40
18	£328	£390	£378	£425	£524	£634	1½"/40
19	£400	–	£400	£480	£584	£668	1¾"/45
20	£448	–	£465	£525	£653	£784	1¾"/45
21	£489	–	£554	£645	£767	£928	1¾"/45
22	£652	–	£624	£810	£827	£1002	1¾"/45
23	£701	–	£637	–	£892	£1066	2"/50
24	£858	–	£660	–	£943	£1128	2"/50
25	–	–	£738	–	£1028	£1238	2"/50
26	–	–	£827	–	£1144	£1390	2¼"/60
27	–	–	£924	–	£1291	£1561	2¼"/60
28	–	–	£1028	–	£1437	£1723	2½"/65
29	–	–	£1156	–	£1644	£1949	2½"/65
30	–	–	£1271	–	£1777	£2144	2½"/65
31	–	–	£1398	–	£1958	£2337	2¾"/70
32	–	–	£1515	–	£2163	£2532	2¾"/70
33	–	–	P.O.A.	–	–	£2725	2¾"/70
34	–	–	P.O.A.	–	–	£2930	2¾"/70
35	–	–	P.O.A.	–	–	£3156	2¾"/70
36	–	–	P.O.A.	–	–	£3381	2¾"/70
38	–	–	P.O.A.	–	Deduct	–	2¾"/70
40	–	–	P.O.A.	–	10% for	–	3"/80
42	–	–	P.O.A.	–	Mag. Bronze	–	3"/80

All fixed propellers can be copper plated to reduce fouling at extra charge

FOLDING	2 BLADE	3 BLADE	3 BLADE	3 BLADE	4 BLADE	4 BLADE
Blade shape	Gori 25	Gori 45	Auto prop 49	Varifold 46	Varifold 51	Gori 60
Diameter, ins	N.A.B.	N.A.B.	N.A.B.	N.A.B.	N.A.B.	N.A.B.
12	£730	–	–	–	–	–
13	£740	–	–	–	–	–
14	£750	£2130	£1565	–	–	–
15	£770	£2130	£1645	–	–	–
16	£830	£2240	£1865	£1345	–	–
17	–	–	£1925	£1395	–	–
18	£890	£2760	£1965	£1495	£2445	–
20	–	£2860	£2155/2435	£1625	£2695	–
22	–	£3570	£2580	£2115	£3085	P.O.A.
24	–	£3850	£2825/3625	£2485	£3515	P.O.A.
26	–	£4310	£3995	–	–	P.O.A.
28	–	£7530	£4685	–	–	also
30	–	£7880	–	–	–	up to 38"

Prices are based on availability of pattern equipment in the required pitch and diameter.

Check limit on shaft diameters.

Prices include taper, bore and keyway to standard 1:12 or 1:16 for imperial or 1:10 for metric. Non-standard tapers extra.

Nozzle type available in 55% turbine blade area only. Price as for turbine 50% of 1" larger diameter.

Radice props available in approx 7 - 10 days.

Cupping available on 65% and 73% B.A.R. Add 15%.

Hyperform also available in larger B.A.R. in 4 blade and also in 5 blade. P.O.A.

For 4 blade turbine and equipoise, add 33%.

Gori also available in 4 blade, 22" to 38" diameter. Prices on application.

**Boat speed and propeller calculation program for PC on USB memory stick, Windows XP or 7 versions £25**



4 blade hyperform 73



3 blade turbine



3 blade equipoise



Nibral 20° transom drive 20 (page 39)



Sternpower 17" x 21" SMC807 (page 39)

# Castoldi Water Jets

BOATBUILDER PRICES

Jet 05, type 017, with hydraulic steering and Hydromec reverse control	twin jet units
Jet 238, type 030, basic unit without remote controls	single jet unit
Jet 240LV, with hydraulic steering and Hydromec reverse control	single jet unit
Jet 240LV	twin jet units
Jet 282, basic unit without remote controls (replaces 06)	single jet unit
Jet 284LV type 303, with hydraulic steering and Hydromec reverse control	single jet unit
Jet 284LV type 304, with hydraulic steering and Hydromec reverse controls	twin jet units
Jet 284 does not have a clutch built in	

Jet 240HC with manual hydraulic steering and Hydromec reverse control	single unit
	twin units
Jet 284HC with manual hydraulic steering and Hydromec reverse control	single unit
	twin units

Jet 340HC with manual hydraulic steering and Hydromec reverse control	single unit
Jet 340HC	twin units

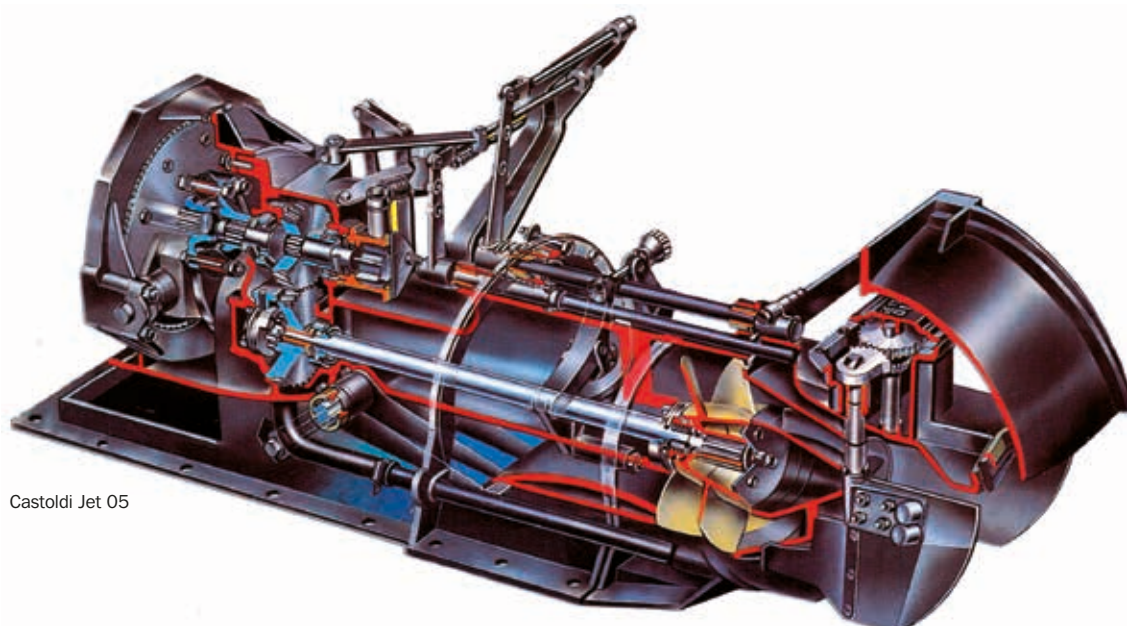
Jet 400HC with power hydraulic steering, single-lever control for electronic speed control and electro-hydraulic reverse control, clutch control and weed rake	single unit
	twin units

Jet 490HC with power hydraulic steering, single-lever control for electronic speed control and electro-hydraulic reverse control, clutch control and weed rake	single unit
	twin units

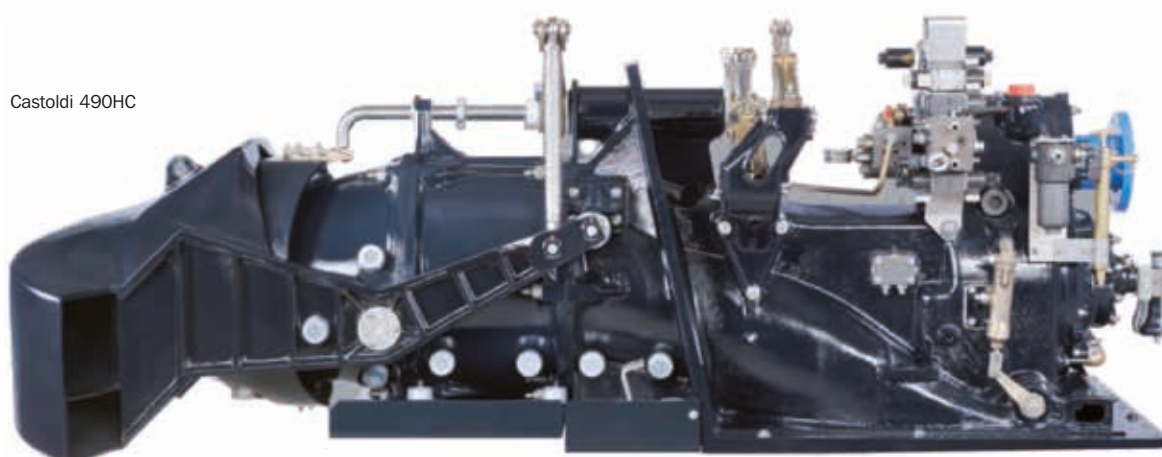
Jet 600HC with power hydraulic steering, single-lever control for electronic speed control and electro-hydraulic reverse control, clutch control and weed rake	single unit
	twin units

"Single lever" control box with mechanical control of throttle and electro-hydraulic reverse, in lieu of any joy-stick, per jet unit

Prices charged will depend on manufacturers' prices and exchange rate at the time of order, and deposit payment.



Castoldi Jet 05



Castoldi 490HC



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POA = PRICE ON APPLICATION

# How to find us at Lancing Marine



**Mike Bellamy**  
winner of the  
world's longest powerboat race



## By Road

### From London and the M25

Take the M23 for Brighton. This becomes the A23 after Gatwick Airport. About 3 miles outside Brighton follow the signs for the A27 westwards towards Worthing. Proceed to the second exit and follow the signs to Portslade. Turn left at T-junction and then right at the traffic lights. Follow the road down to Portslade railway station, where you turn right just in front of the railway crossing into Victoria Road.

### From the West

After crossing the river Adur at Shoreham flyover on the A27, proceed towards Brighton through tunnel. Then take the next exit, signed Portslade and West Hove, and follow the Portslade signs. Turn left at T-junction and then right at the lights. Follow the road down to Portslade railway station, where you turn right just in front of the railway crossing into Victoria Road.

## By Rail

Train from London, Victoria, destination either Littlehampton or Worthing, to Portslade station. Some trains do not stop at Portslade, in which case change onto the local service 'Coastway West' at Hove and travel one or two stations to 'Portslade and West Hove' station. On leaving the station cross the level crossing and turn left into Victoria Road. From Portsmouth, all Brighton trains stop at Portslade.

## By Sea

### Car Ferries - Via Portsmouth

Leave the docks and follow the signs to the Motorway. Follow 'M27 Brighton' signs onto the A27. Then proceed as 'From West'.

### Via Sheerness, Dover, Ramsgate or Folkestone.

Follow the signs to London until you reach the M25. Follow the route signposted 'Gatwick airport' until you reach the M23. Then proceed as 'From London'.

### Via Newhaven

Leave ferry terminal following 'Lewes' signs and join A27 going West. Then proceed as 'From London'.

## By private yacht

Moor in Brighton Marina, approximately 4 miles East of town centre (They listen on channel 80). Take a rental car from close to the Eastern pier and follow the signs to Brighton or phone 01273 204060 for a taxi.

## By Air

### Via London Heathrow

Take underground tube train (London Transport) to Victoria, transfer to main line railway station and proceed as 'By Rail'.

### Via Gatwick

Take the Littlehampton or Worthing train and proceed as 'By Rail'.

## By Private Plane

Go to Shoreham Airport, where taxis are readily available by telephone at exit from main terminal.

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