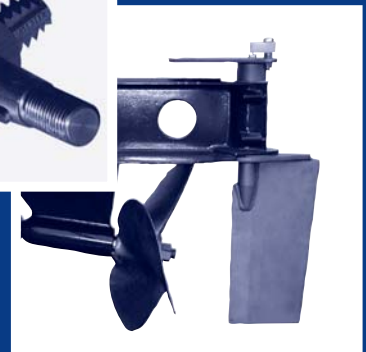
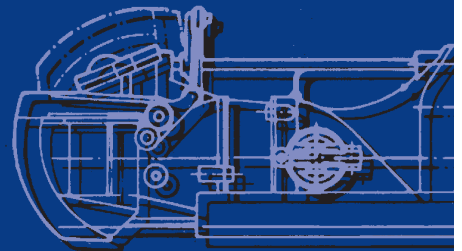
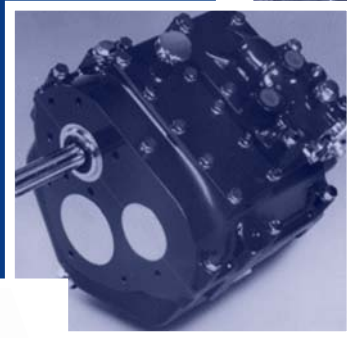
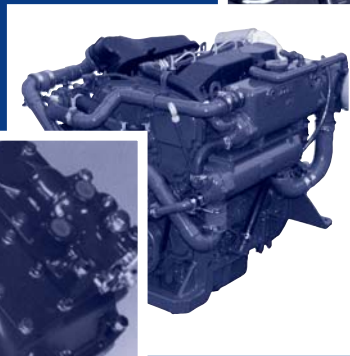


*2010 Prices*

# *Lancing Marine*



**The Discount Price Book  
for Engines  
and Marinising  
and Everything**



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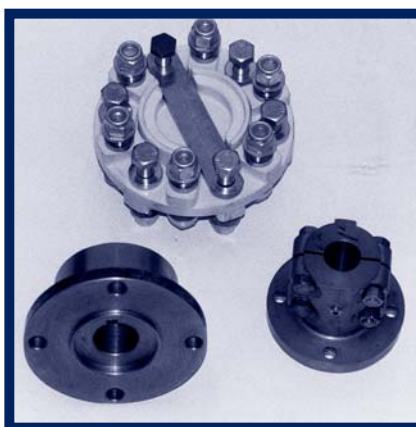


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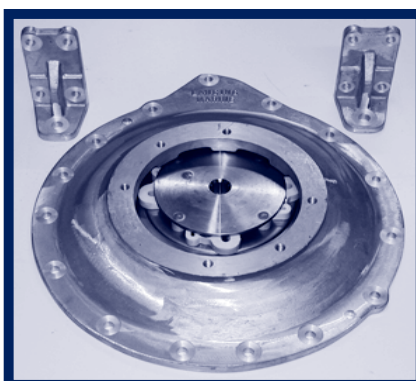
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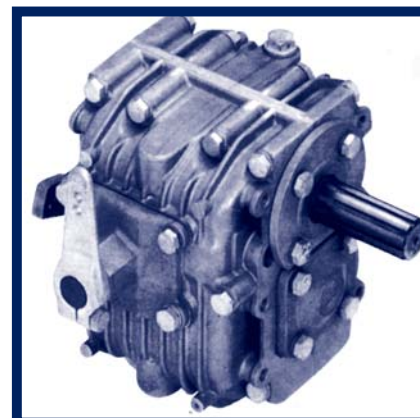
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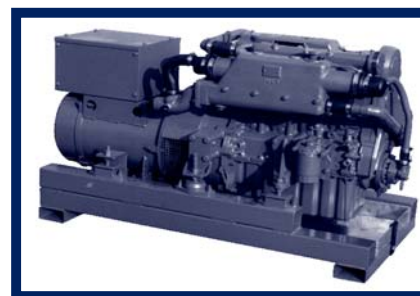


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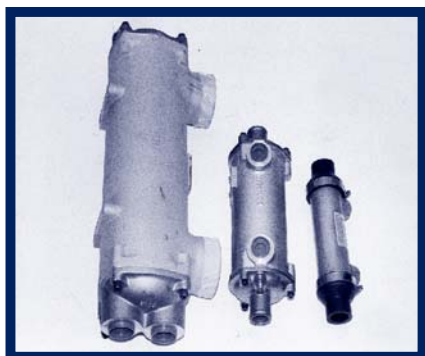


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POA = PRICE ON APPLICATION

# New engines and generators Ford, New Holland

## Diesel engines built for marine use by Lancing Marine

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

HP MAX	SERV	MAX RPM	MODEL	DESCRIPTION	AVAILABLE OPTIONS							LIST	NETT BOAT BUILDER			
78	70	3900	PUMA N	4-CYL 2.4 LITRE	A	(F)	G	L	N	X	£5587	£5079				
91	91	2300	EHD 445	4-CYL 4.5 LITRE	B	C	(F)	G	(H)	L	N	X	£7838	£7125		
111	111	2300	EHD 667 L	6-CYL 6.7 LITRE	B	C	(F)	G	(H)	L	N	X	£8810	£8009		
136**	136	2800	EHD 667	6-CYL 6.7 LITRE	B	C	(F)	G	(H)	L	N	X	£9250	£8409		
143*	120	2600	2725E	6-CYL 6.2 LITRE	A	B	C	E	F	G	(H)	L	n	X	£10881	£9892
145**	120	3900	PUMA T	2.4 LITRE TURBO INT			(F)				L	N			£7557	£6870
160	145	2500	NHD 675	6-CYL 7.5 LITRE	A	B	C	(F)	G	H	L	N	X	£12470	£11366	
191**	170	2600	EHD 667 T	6.7 LITRE TURBO	B	C	(F)	G	(H)	L	N			£9712	£8829	

DETAILED SPECIFICATION SHEETS ARE INCLUDED IN OUR BOATBUILDERS GUIDE BOOK.

REPOWER AND INDUSTRIAL ENGINES ARE LISTED ON PAGE 15.

\* while stocks last

OPTIONS ( ) ARE FREE OF CHARGE

SEE PAGE18 FOR STERNDRIVE "DIESELISING" PACKAGES

\*\* Not for E.C. "New build" sale

#### INSTRUMENTATION AND ALARM OPTIONS

Description	£
<b>Economy.</b> 95mm round panel, with start/run switch and 3 warning lights, engine sensors, 4m harness and alarm sounder	176
<b>Dayboat.</b> "Economy" package plus 4-function instrument reading temperature, oil pressure, battery volts and choice of fuel level or water level with appropriate senders installed. 12v only.	325
<b>Big Two,</b> "Dayboat" package plus tachometer, set into a rectangular, black engraved panel. 12v only.	367
<b>Cruising.</b> Individual instruments with all the functions of the "Big Two" package, set into a rectangular, black engraved panel	402
Assemble panel and wire any of above to engine	65

#### INSTRUMENTATION AND ALARM EXTRAS

Description	£
4m extension to plug into standard wiring harness	44
Boost pressure gauge, hose & connection, loose**	51
Rudder angle indicator and sender	114
Engine hour meter loose or in tachometer**	43
Surcharge for water tank sender, in lieu of fuel sender	20
95mm round flybridge panel with 3 warning lights, re-start button and audible alarm, connected to 4m harness to go to main station	192
Tachometer for flybridge	88
Intake blockage sensing vacuum switch to operate alarm, with pipe	56
** either may be substituted for fuel gauge & sender in "Cruising", or added at prices shown.	F.O.C.

#### All engines are supplied with high temperature and low oil pressure switches and a 2-function alarm sounder

Battery cable kits per pair	for PUMA	70mm <sup>2</sup>	£113	for 2725 EHD & NHD	95mm <sup>2</sup>	£144
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#### OPTIONS FOR ALL ENGINES

Description	£
Sump Pump Kit	60
"All-Speed" governing in lieu of "Power/Torque"	388
High output 12v alternator in lieu of standard, 100A - 202	
Sterling "Smart" digital 12v alternator control, connected (24v £180)	*140
"Smart" 12v, 80A charge amplifier & split charger (24v 60A £290)	247
Load split relay set	25
	up to 70 A
	over 70 A
Type 500 fuel filter with drain and clear bowl for non-spill filter changes (metal bowl £33 extra)	121
Recleanable element for type 500 filter	16
Metal braided fuel feed & return hoses, I.W./M.S.A approved (each)	20
Calorifier connections	15
Water feed for Deep Sea seal	15
Certification of conformity to Ford ISO9001 & Q1 specification	F.O.C.

\* not for EHD engines

#### OPTIONS, APPLICABLE ONLY AS INDICATED

Description	£
A Flywheel mass ring For PUMA	129
	For others
B 12v Insulated electrics in lieu of neg ground	470
C 24v Insulated electrics in lieu of 12v neg. ground	542
E Low-line intake manifold	205
F Electric stop assembly	195
G Feed, return & spill, hoses, connectors & N.R.V. to I.W 2003 spec. with remote mounted filter	120
H All metal fuel injector spill pipe assembly	156
L P.T.O shaft or pulley	122
N/n Dual station speed and shift connections	80/130
X Keel connections and dry exhaust in lieu of heat exchanger	F.O.C.

#### ON-BOARD SPARES KITS (including an appropriate manual)

ENGINE	XLD	FSD	PUMA	PUMA T	2725	NHD675
COASTAL KIT	226	225	267	267	268	273
CRUISING SUPPLEMENT	428	475	356	388	294	225
BLUE WATER EXTRAS	1050	1371	698	698	2041	2078

#### MANUALS AND PARTS BOOKS

ENGINE	XLD	FSD	DORSET	DOVER	NHD40	NHD60	EHD	PUMA
WORKSHOP MANUAL, ENGINE SECTION	20	20	20	20	20	20	{ 28	{ 28
WORKSHOP MANUAL, ELECTRICAL & FUEL SECTION	20	20	20	20	20	20	{ C.D.	{ C.D.
QUICK REFERENCE PARTS BOOK	10	10	10	10	10	10	—	—



# New Vetus marine diesel engines and generators

## 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	NETT BOAT BUILDER
11	3000	M2.C5	98	2-CYL 538cc	452 x 494 x 500	£2845	£2421
13	3600	M2.D5	98	2-CYL 538cc	452 x 494 x 500	£3095	£2634
16	3600	M2.O6	98	2-CYL 635cc	452 x 533 x 500	£3480	£2962
27	3600	M3.28	123	3-CYL 952cc	535 x 533 x 500	£4540	£3864
33	3000	M4.15	180	4-CYL 1500cc	660 x 490 x 575	£5135	£4370
42	3000	M4.17	185	4-CYL 1758cc	660 x 490 x 575	£5890	£5013
52	3000	M4.55	192	4-CYL 1758cc TURBO	660 x 490 x 575	£6710	£5711
65	3000	VH4-65	240	4-CYL 2607cc	719 x 643 x 639	£7110	£6051
80	4000	VH4-80	245	4-CYL 2607cc	719 x 643 x 639	£8240	£7013
140	4000	VF4-140	265	4-CYL 1910cc TURBO	703 x 700 x 685	£12600	£10710

SEE PAGE 6 FOR GEARBOXES AND PAGE 10 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. Electronic control system required for VF4140 (trim £274 extra) £1506

#### INSTRUMENTATION

(With harness and senders fitted to engine)

	2-cyl & 3-cyl	4-cyl	£
<b>Economy.</b> 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	
<b>Sporting.</b> 193mm x 161mm panel, as "Economy", but with Tachometer with hour counter, voltmeter and 4M harness	139	F.O.C.	
<b>Cruising.</b> 255 x 161mm panel, as "Sporting", but with temperature and oil pressure gauges and senders	423	392	
<b>Flybridge Sporting.</b> Additional "Sporting" panel with Y-piece and 4m harness	373	373	
Extension harness, 4M (other lengths available)	52	52	
Extension panel 161mm x 99mm to take 1 or 2 additional 52mm instruments, empty	20	20	
Extra 110A alternator on M4 engines	—	545	
(Engines are <b>not</b> supplied without at least one appropriate instrument set)			
Sterndrive adaptation kit for VF4-140, choice of Mercruiser, Volvo 280/290, Volvo SX			2355

#### OPTIONS

(including fitting to engine, where appropriate)

	£
Vetus saildrive for engines up to 80-HP assembled	2235
Adapter kit to fit Volvo 110S/120S saildrives	295
Sterling "Smart" digital alternator control	140
Load split relay set to separate batteries	25
when engine is not running	for M range
Pair of metal braided fuel feed and return hoses, I.W./M.S.A. approved	40
Low pressure pipes and spill pipe connection I.W. 2003 spec.	40
Type 500 fuel filter with drain and clear bowl, for non-spill filter change (Metal bowl £35 extra)	121
Re-cleanable element for Type 500 filter	16
Water feed for Deep Sea seal	15
P.T.O. pulley	2 & 3 cyl £57 4-cyl 90
Dual station speed and shift control connections	80
Keel cooling with dry exhaust connection	2-cyl & 3-cyl deduct 50 4-cyl deduct 80
Calorifier connection kit	2-cyl & 3-cyl £90 4-cyl 50

### VETUS DIESEL MARINE GENERATOR SETS

3000 RPM 50Hz		OPEN STYLE			HUSH-BOXED				
Kw	PHASE	DIMENSIONS L X W X H, mm	WEIGHT Kg	LIST	NETT BOAT BUILDER	DIMENSIONS L X W X H, mm	WEIGHT Kg	LIST	NETT BOAT BUILDER
3.2	ONE	-----	--	----	----	560 X 420 X 395	95	£5040	£4289
5.2	ONE	730 X 494 X 500	120	£5830	£4962	780 X 465 X 560	180	£6590	£5608
6.4	ONE	730 X 533 X 500	125	£6510	£5540	780 X 465 X 560	185	£7410	£6306
11	ONE	960 X 533 X 500	220	£8550	£7277	1010 X 585 X 630	295	£9510	£8094
19	ONE	1130 X 490 X 575	345	£9910	£8094	1180 X 585 X 630	436	£11210	£9450
1500 RPM 50Hz		OPEN STYLE			HUSH-BOXED				
Kw	PHASE	DIMENSIONS L X W X H, mm	WEIGHT Kg	LIST	NETT BOAT BUILDER	DIMENSIONS L X W X H, mm	WEIGHT Kg	LIST	NETT BOAT BUILDER
5.2	ONE	870 X 533 X 500	170	£7990	£6800	920 X 585 X 630	245	£8820	£7506
11	ONE	1070 X 490 X 575	315	£9630	£8196	1120 X 585 X 630	395	£10710	£9115
20	THREE	1310 X 643 X 639	415	£10770	£9166	1360 X 700 X 730	505	£12030	£10235

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.

20KW unit can provide 3 separate single phase supplies at not over 10Kw per circuit, so long as the total does not exceed 20KW.

## Vetus bow thrusters



Thrust, Kg	KW (HP)	VOLTS	PROP DIAMETER	WEIGHT	MAX OPERATION	£
25	1.5 (2)	12	110mm	10Kg	4mins/Hr	962
35	1.5 (2)	12	150mm	12Kg	4mins/Hr	1059
55	3 (4)	12/24	150mm	20Kg	4mins/Hr	1273
75	3 (4)	12/24	185mm	26Kg	2mins/Hr	1545

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

# Control systems

NETT BOATBUILDER £

Throttle and shift control, single lever, side mount, flush, for 2x33c cables	(AFB85)	119	
Throttle and shift control, single lever, top mount, for 2x33c cables	(TMT)	120	
Throttle and shift control, dual engines, single levers, top mount, for 4x33c cables	(TMT 2)	230	
Throttle and shift control, dual engines, single levers, top mount, for 2x33c cables and electric gearboxes	(single engine £170)	340	
Dual Station connection unit for push or pull speed control		93	
Dual Station connection unit for gearshift, with station selector, excluding cable		192	
Throttle and shift control with friction brake/detent for 2x33c/40XL cables	(NBT)	278	
Two function control, top mount for 2x33c cables	(CQS 2)	165	
Single function top mount control for 33c cable	(CQS 1)	98	
Single function side mount control for 33c cable	(CQ)	43	
Two function side mount control for 2x33c cables	(CQ)	85	
Speed or shift cable 33CL up to 10ft long (per 1ft extra, 20ft max, £0.50)	£19	Speed and stop control attachment kit for Ford 2700/2720 Series	£45
Stop cable or latch cable 10ft long with end fittings (per 5ft extra £5)	£30	Speed control attachment kit adaptable for Ford XLD or FSD	£20
Speed or shift cable 33C 15ft long (per 1ft extra, 30ft max, £1)	£23	Speed control kit for 4 and 6 cylinder Ford 2700/2720 Series, front entry	£58
Zero-lash control cables C-0 20ft long (per 1ft extra, 56ft max, £2)	£50	Speed control attachment kit, Gardner (for 40XL)	£36
Ball joint, 3/16" for 33C cables	£10	Speed and stop connection for Perkins 4-108	£58
Adaptation kit, 2x33c cables to Mercruiser	£14	Dual cable adaptation kit for pull speed controls	extra £21

## STEERING SYSTEMS Data Book Page 22

NETT BOATBUILDER £

Hydra LD20-32x178 Steering system, with hoses, excl. wheel	£437	Hydra LD28 Second station kit, with hoses and connections	£365
extra for LD28 helm head in lieu of LD20	£58	Hydra LD39 Second station kit, with hoses and connections	£466
Hydra LD28-40x178 Steering system, with hoses, excl. wheel	£528	* Hydra HD63 Second station kit, with hoses and connections	£643
Hydra LD28-40x228 Steering system, with hoses, excl. wheel	£585	Steering wheels, various styles	from 30
extra for LD39 helm head in lieu of LD28	£101	Ball joint, 1/2" UNF male shank, 1/2" I.D., for tie-bar ends	15
* Hydra LD39-50x178 Steering system, with hoses, excl. wheel	£868	Ball joint, 5/8" UNF male shank, 5/8" I.D., for tie-bar ends	20
* Hydra LD39-50x228 Steering system, with hoses, excl. wheel	£875	Cylinder by-pass valve and 2 Tee connections	33
* extra for HD63 helm head in lieu of LD39	£436	* while stocks last	

## TRIM TABS Data Book Supplement

NETT BOATBUILDER £

Bennett trim tab kits, complete system	Width	30cm	45cm	60cm	75cm	90cm	120cm
	30cm chord	£340	£362	£383	£391	£413	£591 (Dual Ram)
Second station control and harness	£74	Add-on hatch lifter ram kit. 18" stroke					220
Additional rams and connections, per pair, with hydraulic tees	£102	Additional hatch lifter ram					120
24V motor pump in lieu of 12V	£20	Dual independent ram hatch lifter and pump kit					442
Additional relay for use with long cables	£48	Spare 12V motor-pump-reservoir assembly					234
Electronic tab position indicator and control kit	£259	Spare cylinder and connection					60
Second station indicator/control	£165	Extra aluminium plates to take single S/S rams or 2 or 3 standard rams,					
Trim Tab Kit complete, less plates	£288	custom made, up to 60cm x 60cm, in lieu of standard					pair, from - 195
Automatic tab retractor	£55	Twin pump, double acting trim tab kit, for above plates					1800

## POWER TAKE-OFFS AND PUMPS

NETT BOATBUILDER £

Triple V-belt pulley, 127mm, A section, for 2700 Fords and NHD to bolt to existing crankshaft pulley							122
1 1/4" shaft to bolt to front of existing crankshaft pulley for Ford 2700, 2720 and NHD							112
1 1/2" shaft, including modification of front pulley, Gardner 6/8 LX/LXB							170
Bilge/wash pump 1" belt drive, (80 lit/min at 1500rpm)	12v or 24v Electric clutch	£281		Mechanical clutch	£381		
Bilge/wash pump 1 1/2" belt drive, (195 lit/min at 1500 rpm)	12v or 24v Electric clutch	£488		Mechanical clutch	£545		
Bilge/wash pump, 2" belt drive, (270 lit/min at 1500 rpm)	12v or 24v Electric clutch	£782		Mechanical clutch	£700		
Vivier pump to mount to gearbox P.T.O., S.A.E. "B"							520
Wash pump, continuous running, for 2700 Fords, 26mm hose connections, 55 lit/min, fits to water pump pulley (extra for crank mount £60)							274
Continuous running bilge pump kit for Mercruiser, 26mm hose connection, 55 lit/min, fits to water pump pulley							274
Pump mount bracket, 2700 Ford and NHD	£125	Pump mount bracket, Gardner 6/8 LX/LXB					125

## ELECTRIC PUMPS

NETT BOATBUILDER £

Electric bilge pump, 30 lit/min, 12 volt, standard	£17,	automatic	£46	Electric bilge level sensor and pump control 12 volt or 24 volt		21
Electric bilge pump, 69 lit/min, 12 volt, standard	£29,	automatic	£72	Jabsco electric water puppy, 32 lit/min, 12 volt or 24 volt		99
Electric bilge pump, 90 lit/min, 12 volt, standard	£62,	automatic	£116	Jabsco electric water puppy '3000' 45 lit/min, 12 volt or 24 volt		243
Electric bilge pump, 120 lit/min, 12 volt, standard	£86,	automatic	£162	Jabsco electric engine circulation pump, 12V, 12.5 lit/min		98
Float switch, alarm & warning light			£50			

## CALORIFIERS

For engine heated hot water, 25 litre capacity, insulated, incl. safety valve		148
For engine heated hot water, 50 litre capacity, insulated, incl. safety valve		233
For engine heated hot water, 32 litre capacity, horizontal, insulated, incl. safety valve		161
For engine heated hot water, 12.1 litre capacity, insulated, incl. safety valve		359
Extra for second heating coil to run off of additional engine		20
Immersion heater, 240v 2Kw, with temperature control thermostat and overheat shut-off, 0.75, 1.25, 2.0 & 3.0Kw, 240v		56
Blender valve to reduce hot tap temperature to safe level, 15mm connectors		18
Dimensions given are for popular vertical models. Other vertical sizes and horizontal models are available.		
Add 50mm to diameter for insulation, which can be trimmed locally to avoid obstructions.		

# Electrical and installation

NETT BOATBUILDER £

NETT BOATBUILDER £

4m wiring harness and plug connection	119
Start/run switch and 2 keys	15
Warning light with 12v or 24v bulb	5
Harness, start/run switch, 3 warning lights and starter relay	118
HD relay to operate 24v starter from two 12v batteries	95
Push button for horn or other function	8
4m extension harness (2m £36, 8m £48)	44
Tachometer, 0/4000RPM, alternator sensed	78
Tachometer, 0/4000RPM, alternator sensed, with hour counter	115
Tachometer, 0/5000RPM, perception sensor type	78
Perception sensor and harness or tacho generator	75
Hand held digital tachometer	75
Temperature gauge	£26 Sender £10 Gauge & sender 36
Oil pressure gauge	£26 Sender £24 Gauge & sender 50
Gearbox pressure gauge 350 p.s.i.	£26 Sender £69 Gauge & sender 95
Fuel gauge	£26 Sender £46 Gauge & sender 72
Surcharge for insulated sender, temperature or oil pressure	4
Water tank level sensor and changeover switch for fuel gauge	62
Battery voltmeter	26
4-in-1 temperature, oil pressure, tank level & 12V voltmeter, with senders	149
Engine hour meter	43
Ammeter	25
Rudder angle indicator with sender	114
24v/12v dropper for any instrument except voltmeter and ammeter	7
Compass, flux-gate, remote sensor	198
Depth sounder with alarm with hull/transom fitting	158
Fuel flow meter with forward-flow sensor (return flow eliminator extra)	219
24v/12v dropper for any of above three instruments	12

Standard instrument panel for 1 large and 4 small instruments	40		
Round panel and 3/4" chrome plated brass bezel	40		
Flybridge round panel and bezel with 3 warning lights, re-start button, 2-channel alarm and harness to main station	192		
0/600PSI gearbox pressure gauge, hose and connection	54		
Boost pressure gauge with hose and 1/8" NPT connection	41		
Intake blockage sensing switch to operate alarm	52		
Over-temperature sensing switch, earth return (insulated return £18)	16		
Oil pressure switch, earth return (insulated return, adjustable £42)	14		
Oil pressure nipple & tee	5		
2 channel warning siren, 12-24v	24		
"Smart" digital 12v alternator regulator for full charging of domestic batteries (24v £127)	85		
Charge amplifier for 1 or 2 alternators with single or split output			
12v, 80A £247	12v, 160A, £298	12v, 210A, £340	
24v, 60A, £290	24v, 100A, £340	24v, 150A, £391	24v, 200A, £476
Load-split relay for combined charging of 2 separated batteries, up to 70A	10		
Heavy-duty load-split relay for up to 180A	20		
110/230v battery charger 12v 10A output Type C	162		
110/230v battery charger 12v 30A output Type C	213		
110/230v battery charger 24v 20A output Type C	289		
24v DC to 12v DC, 50A converter/battery charger	315		
12v DC to 24v DC, 25A converter/battery charger	315		
12v or 24v inverter 230v 1800w output	255		
12v or 24v inverter 230v 3000w normal output, 5000w short period	851		
Voltmeter 0-300v or 0-500v, A.C.	46		
Ammeter 0-25A, 0-40A or 0-60A, A.C.	40		
Frequency meter 45-65 Hz, A.C.	108		
All equipment 12v DC negative ground, unless otherwise stated			

## INSTALLATION COMPONENTS

NETT BOATBUILDER £

Fuel line filter and bowl with re-usable filter element and 5/16" (8mm) push-on connections	(Metal £5 extra)	45	
Fuel line filter and bowl with re-usable filter element and water drain, with 1/4", 5/16" (8mm) or 3/8" pipe connections	(Metal bowl £8 extra)	95	
Fuel line filter assembly, Type 500, "no-spill" element change, clear bowl, water drain, 5/16" (8mm) or 3/8" connections, replacement element paper £8, recleanable £16	(Metal bowl £33 extra)	121	
Flexible armoured fuel hoses 60cm long to ISO 7840 A1, inland waterways approved	1/4" £13 5/16" (8mm) £16 3/8" £20		
Inland waterways compliant spill pipe assemblies (not required by I.W. if injector spill has its own return pipe to tank or NRV assembly (£52) is fitted)			
Ford XLD, Peugeot XUD, V.W. 1600 £336	Ford FSD £112	Perkins 4/108, BMC 1.5/1.8/2.5 £88	
Inland waterways low pressure fuel pipe kits, to suit fuel filter mounted remote from engine room, including feed & return hoses and NRV assembly			
Ford XLD £110	Ford FSD £130		
Sump pump, bracket, hose and connectors		58	
	Hose Size	16mm 22mm 28mm 32mm	
Tonval bronze plain skin fitting, seacock, internal strainer and hose tail		£63 £81 £121 £166	
Polypropylene plain skin fitting, seacock, internal strainer with hosetail for steel and ferro-concrete hulls		£83 £97 £170	
Tonval bronze combined external strainer/skin fitting, seacock and hosetail		£24 £29 £37 £59	
Stainless steel high-speed skin fitting and back nut, ready for hose		£59 £65 £71 £71	
Plastic water filter small with 19, 26 & 31mm hose connections	(CQ 914)	22	
Plastic water filter with 1 1/2" B.S.P connections	(CQ 915)	50	
Anti-syphon vent to fit 13, 19, 25, & 32mm hose, new type		48	
Stainless steel heavy duty hose clips	up to 45mm £2.00	50mm-80mm £3.00	90mm-130mm £4.00
Engine paint, 1 litre £10 (125ml touch-up £3)	Spray-on super adhesive, 500ml cans £10	Silver mirror finish, self-adhesive jointing tape	£7
Acoustic insulation, metalised fabric faced, per 26 sq. ft. (2.4 sq.m) pack, fire retardant, 4 sheets 60cm x 1M x 25mm			95
Acoustic insulation, metalised fabric faced, per 26 sq. ft. (2.4 sq.m) pack, fire retardant, 4 sheets 60cm x 1M x 14mm			80

## EXHAUST SYSTEMS

NETT BOATBUILDER £

	Hose Size	2"	3"	4"	5"
Hose for wet exhaust, per 30cm, Extra-flexible		9	14	16	22
Hose for wet exhaust, per 30cm, Soft, without wire		10	12	13	-
Stainless steel, extra heavy duty hose clamps, per pair		12	16	19	32
Exhaust water trap, standard, LP, VET		118	191	-	-
Exhaust water trap, extra large, round, VET		152	249	526	526
Exhaust back-flow preventer, VET		94	199	234	234
Exhaust gas/water separator for gensets		150	203	-	-
In-line plastic silencers, VET		79	142	301	425
Stainless steel pipe bend		20	36	53	-
Exhaust outlet, rubber		52	122	-	-
Exhaust outlet, stainless steel, standard type		53	63	116	167
Exhaust outlet, stainless steel, with built-in rubber flap		59	104	141	204
Exhaust outlet, nylon		9	12	14	-
Exhaust outlet, stainless steel, with 60cm extended pipe		89	157	183	204
Rubber flap to fit plain end exhaust pipes		10	10	16	37
Exhaust outlet, stainless steel, with 60cm extended pipe and gravity flap		150	227	253	298
Through-transom outlet elbow & low level fishtail		65	-	-	-
Stainless steel flexible bellows, with overbraiding and weldable ends (O.D.)	(1 5/8") £36	(1 7/8") £44	(2 3/8") £53	(3") £105	(3 1/2") £127
Dry silencers with weldable or BSP threaded ends (O.D.)	(1 5/8") £45	(1 7/8") £52	(2 3/8") £62	(3") £78	(3 1/2") £95
50mm wide heat resistant wrapping tape for exhaust systems, per metre	1" wide £1		2" wide £2		3" wide £3

V.A.T. extra on all prices

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# Gearboxes

	COOLER SIZE	GEAR RATIOS			MAX DIESEL HP/100RPM PLEASURE USE	FLANGE SIZE	LIST	BOAT-BUILDER £
TMC 40	—	1.5	2.0	(2.6)	0.9(0.7)	4"	€662	454
PRM 80	—		2.0	[2.5]	1.3(0.9)	4"	£490	366
PRM 90	—		2.0	(2.5)	1.3(1.0)	4"	P.O.A.	P.O.A.
ZF 10M (HBW100)	(L.H. only) H		2.0	(2.7)	1.4(0.9)	4"	£1330	501
TMC 60	(L.H. only) TM	1.6	2.0	(2.5) [2.9]	1.6(2.2)[1.1]	4"	€874	638
PRM 120	—		2.0	(2.5) [2.9]	1.7(1.5)[1.3]	4"	£663	495
ZF 12	1		2.1	(2.6)	1.8(1.5)	4"	£1224	875
ZF 12M (HBW125)	(L.H. only) H		2.1	(2.6)	1.8(1.6)	4"	£1203	860
ZF 15M (HBW150)	(L.H. and 54 H.P.+)	1.6	1.9	2.1 (2.6)	2.0	4"	£1511	1080
ZF 15MA	(L.H. and 54 H.P.+)		1.9	2.1 (2.6)	2.0(1.5)	4"	£1678	1200
ZF 15MIV, 15° V-Drive	(L.H. and 34 H.P.+)		2.1	(2.7) [3.0]	2.0(1.5)	4"	£2523	1803
PRM 150	1	1.5	2.1	2.8	2.1	4"	£936	699
ZF30M	H		2.1	2.7	3.2	4"	£1965	1557
ZF 25	1		2.0	(2.8)	4.4(3.5)	4"	£1706	1351
ZF 25A	1	1.5	1.9	2.3 (2.7)	4.4(3.5)	4"	£1706	1351
Techno Drive TMC260	(L.H. only) TM	1.5	2.0	(2.5) [2.9]	3.6 (2.5)	4"	£1126	822
PRM 260 Drop Centre	1		2.0	2.9	3.6	5"	£1348	1005
PRM 260 Coaxial	2		2.0	2.9	3.6	5"	£1688	1359
ZF 25M (HBW250)	(L.H. and 54 H.P.+)		1.9	2.3 (2.7)	3.6(2.4)	4"	£1785	1414
ZF 25MA	(L.H. and 54 H.P.+)		2.2	(2.7)	3.6(2.4)	4"	£1785	1414
Techno Drive 345	1	[1.5]	2.0	(2.5)	[4.8]3.9(2.9)	5"	£1714	1252
Techno Drive 345A	1	[1.5]	2.0	(2.5)	[4.8]3.9(2.9)	5"	£1798	1313
Velvet Drive 71	1	1.0			5.7	4"	£1564	1303
Techno Drive TM200B	2		3.6	4.4	5.9 (work)	7¼" TD	£4681	3419
Techno Drive TM93	2	1.5	2.1	(2.4) [2.8]	6.2 (4.8)	5"	£2176	1589
ZF 45-1	1		2.2	2.5 3.0	6.3	5¾"	£2438	1930
ZF 45A	1	1.3	1.5	2.0 (2.4)	6.3 (5.9)	5"	£2303	1832
PRM 500 Drop Centre	2		1.5	1.9 (2.6) (2.9)	6.4(6.2)	5¾"	£1910	1525
Techno Drive TM93A	2		1.5	2.1 2.4	6.6 (4.8)	5"	£2260	1651
Techno Drive TM485A	2		1.5	2.1 (2.4)	6.7 (5.9)	5"	£2238	1635
Velvet Drive 72	1	1.0			8.6	5"	£1825	1521
Velvet Drive 72	2		1.5	2.6	8.6	5"	£2657	2214
Velvet Drive 72	2			2.1 2.9	7.1	5"	£2920	2344
Velvet Drive 72	2		1.9		7.1	5"	£3576	2980
ZF45IV, 20° V-Drive	2	1.2	1.5		7.4	4"	£2770	2194
ZF 45C	1	1.0			7.6	4"	£1505	1192
PRM 750 Drop Centre	3			4.0	8.0	5¾"	£2377	1912
ZF 63	1	1.5	1.8	1.9 (2.5) (2.8)	9.6(7.9)	5"	£3003	2377
ZF 63A	1	1.2	1.6	2.0 (2.5) (2.7)	9.6(8.4)	5"	£2720	2154
ZF 63IV, 12° V-Drive	2	1.3	1.6	2.0 (2.5)	8.7(8.0)	5"	£3594	2847
ZF 63C	1	1.0			9.6	5"	£1630	1291
Techno Drive TM170	2	1.5	2.0	(2.5) [2.9]	10.5 (7.2)	5"	£2504	1829
Techno Drive TM170A	2	1.5	2.1	(2.6)	10.5 (8.4)	5"	£2571	1878
PRM 750 Drop Centre	2	(1.1) (1.5)	1.9	[2.6] [2.9]	(10.5)9.5[8.0]	5¾"	£2099	1623
PRM 750 Coaxial	3	(1.1) (1.5)	1.9	[2.6] [2.9]	(10.5)9.5[8.0]	5¾"	£2451	1973
8° down angle input on PRM 500 & 750	+1				9.6		£750	628
ZF 80 A	2	1.6	1.8	2.0 (2.5)	13.2(12.1)[11.4]	5¾"TD	£3641	2883
ZF 80 IV, 12° V-Drive	2		1.6	2.0 2.5	11.4	5¾"TD	£4833	3828
ZF 88C	2	1.0			12.3	5"	£2097	1661
Twin Disc MG 5050 SAE3	2HP	1.2	1.5	1.7 2.0 2.4 3.0	11.4	5¾"TD	£5247	4563
Twin Disc MG 5050A, SAE3, 10°	2HP	1.1	1.5	1.8 2.0 (2.5)	13.0(11.4)	5¾"TD	£5247	4563
Twin Disc MG 5050V, 10°, V-Drive	2HP	1.1	1.5	1.8 2.0 2.5	11.4	5¾"TD	£5770	5017
ZF 220 A	2HP	1.2	1.5	1.8 2.0 (2.5)	12.5 (11.3)	4¾"TD	£3696	2928
ZF220V, 10° Remote V-Drive	2HP	1.2	1.5	1.7 2.0 (2.4)	12.5 (11.5)	5¾"TD	£4588	3634
Techno Drive TM360	3HP		3.0	3.5 4.0	11.5 (work)	240mm	£7941	5800
PRM 1000 Drop Centre	3			4.0	11.5	7¼"	£3331	2681
PRM 1000 Drop Centre	2			2.9	11.5	5¾"	£3091	2488
Techno Drive TM880A	2	1.5	2.1	(2.6)	12.3 (8.4)	5"	£2613	1909
ZF 220	2HP	1.0	1.5	2.0 2.5 3.0	13.2(11.5)	5¾"TD	£3473	2751
Techno Drive TM265A	3		1.4	2.1 2.3	13.7 (12.5)	5¾"TD	£3889	2841
PRM 1000 Drop Centre	2		1.5	(2.0)	14.4(12.6)	5¾"	£2896	2331
10° down angle input on PRM 1000	+2				13.0	—	£769	615
ZF85A	2	1.2	1.6	1.8 2.0 2.5	14.9	5¾"TD	£4234	3353
ZF85IV, 12° V-Drive	2		1.6	2.0 2.5	14.9	5¾"TD	£5656	4480
Twin Disc MG 5061 SAE3	3HP	1.1	1.5	1.8 2.0 2.4	14.3	5¾"TD	£6838	5946
Techno Drive TM265	3	1.2	1.5	2.1 2.8	14.8	5¾"TD	£3647	2664
Twin Disc MG 5062V SAE3, V-Drive	3HP	1.2	1.5	1.8 2.1 2.5	15.3	5¾"TD	£9240	8035
Twin Disc MG 5061A SAE3	3HP	1.1	1.5	1.8 2.0 (2.5)	16.5(15.3)	5¾"TD	£6838	5946
ZF 280 IV	3HP	1.2	1.6	1.8 2.0 2.6	17.2	5¾"TD	£5839	4901
ZF 280-I	3HP	1.0	1.5	2.0 2.5	20.0	5¾"TD	£4668	3974
ZF 280-IA	3HP	1.1	1.5	1.8 2.0	18.0	5¾"TD	£4409	3768
Techno Drive TM1200A	4HP		1.4	2.0 (2.3)	19.6 (16.7)	7¼"TD	£4605	3364
PRM 1500DC SAE1, 2	4HP		3.1	3.9 4.5 (4.9)	21(18.3)	10½"	£6378	4018
PRM 1500SC SAE3	3HP	1.2	1.6	1.9 2.2 2.4 (3.0)	21.0(18.9)	7¼"TD	£4957	3123
PRM 1750DC SAE1, 2	5HP		3.1	3.9 4.5 (4.9)	WORKBOATS	10½"	£6378	4018
PRM 1750SC SAE3	4HP	1.2	1.6	1.9 2.2 2.4 3.0	ONLY	7¼"TD	£4957	3123

Gear ratios in *italics* are generally made to order and may take some weeks. Remainder are normally available for prompt delivery. For commercial operation, request further information.

Where list prices are given in Euros (€) Boatbuilder prices may vary with exchange rate changes.

## See Data Book Pages 12 - 16 for more details

GEARBOX SPARES MODEL	HBW 100	HBW 125	HBW 250	DELTA	160	PRM 302/402	PRM	
	71/72	ZF10M	ZF12M	ZF25M	PRM 150	PRM 260	500/750	PRM 601/1000
ITEM	£	£	£	£	£	£	£	£
Seal and gasket kit	49	25	33	34	15	19	28	36/51
Clutch pack, forward	202	70	96	107	87	143	161	234/208
Clutch pack, forward & reverse, shims, seals, gaskets & thrusts	—	209	210	307	—	—	—	—



# Accessories for gearboxes

NETT BOATBUILDER £

	SAE.1	SAE.2	SAE.3	SAE.4	SAE.5	B/W
Steel Flywheel Housing Cover, machined for selected gearbox	£383	£289	£262	£230	£193	£144
Cast Iron Flywheel Housing Cover for PRM 1000	£217	£239	£120	—	—	—
Cast Iron Flywheel Housing Cover for PRM 260-750	—	£116	£98	£94	£84	£57
Flywheel Housing Cover for ZF 220-280 and 45H	—	£258	£219	£269	—	£228 (not 280)
Aluminium Flywheel Housing Cover for PRM with mounting feet	—	£302	£285	£269	—	—
Aluminium Flywheel Housing Cover for B/W and ZF 45A to 80 (steel)	—	(£153)	£189	£162	£178	—
Aluminium Flywheel Housing Cover for B/W and ZF 45A to 80, with mounting feet	—	£294	£273	£250	—	—
Aluminium Flywheel Housing Cover for PRM 120-150, ZF 4M-15M or ZF25M	—	—	—	£95	£81	£57
B/W Housing Spacer, 10, 16, 22 or 28mm thick						72
Live P.T.O. for PRM 500 or 750, size B flange (for 1000 & 1500/1750 P.O.A.)						225
Clutched P.T.O. for PRM 1000, size B flange (+1 on oil cooler size)					(Retro-fit on late type soft-shift boxes £529)	375
Clutched P.T.O. for PRM 1500, size B flange (+1 on oil cooler size)						557
Hydraulic pump to suit above P.T.O. assemblies, 46-110 L/min/1500 RPM, 200 Bar						from 380
Troll Valve for PRM Gearboxes, 260 to 1500 (increase cooler size by 1), new type						P.O.A.
Electric shift control valve on PRM 260-1500, in lieu of standard (retrofit £805)					(extra for 24V in lieu of 12V £67)	705
Electric shift control valve on ZF 25 to 85, in lieu of standard, (C boxes £383)						435
Electric shift control valve on ZF 220PL and 280, in lieu of standard						52
Oil filter blanking kit for PRM models 100, 140, 175 & 265						7
Gear shift attachment kit for PRM 120, Techno 60	48					Gear shift attachment kit for ZF M types 30
Gear shift attachment kit for PRM 150	48					Gear shift attachment kit for ZF 10 to 80 30
Gear shift attachment kit for PRM 260-1000	48					Second shift cable attachment kit extra £59
Gear shift attachment kit for Velvet Drive	48					Gear shift attachment kit, Technodrive hydraulic 35
						General purpose attachment kit and ZF 220 upwards 10

## GEARBOX TO SHAFT COUPLINGS

NETT BOATBUILDER £

		MAX HP/100 RPM	
Flexible flange coupling 4" types 001, 002, 013, 014, 019, 020, 028, 043	(types 004, 005, 7HP/100 £51)	3 & 5	(double-flex £117) 44
Solid or clamp-on propeller shaft half coupling, 4" for ¾", 1", 1¼" or 1½" shafts, or metric, stock sizes only			47
Flexible flange coupling 5" types 009, 012, 036, 037, 044	(type 029, 20HP/100 £140)	13	(double-flex £231) 80
Solid or clamp-on propeller shaft half coupling, 5" for 1", 1¼", 1½" or 1¾" shafts, or metric, stock sizes only			71
Flexible flange coupling 5¾" type 003	(type 006 Twin Disc £139)	20	(double-flex £328) 116
Flexible flange coupling 5¾" Heavy Duty type 025	(type 026 Twin Disc £179)	28	(double-flex £408) 156
Solid or clamp-on propeller shaft half coupling, 5¾" for 1¼", 1½", 1¾", 2", 2¼" or 2½" shafts, or metric, stock sizes only			100
Flexible flange coupling 7¼" types 017, 018, 032, 033		40	274
Solid propeller shaft half coupling 7½" bored and keywayed, stock sizes	(up to 2" tapered £299)		175
Clamp-on propeller shaft half coupling 7¼" for shafts up to 2½" and 65mm			271
Flexible flange coupling 9" for Twin Disc types 038, 039, 040		59	425
Solid propeller shaft half coupling 9" bored and keywayed, stock sizes	(up to 2¼" tapered £410)		298
Adaptor 9" to 5¾" or 7¼" half coupling			148
Adaptor 4¾" to 5¾" half coupling			98
Adaptor/spacer for 5¾" to 5" half coupling			98
Adaptor 4" to 5" half coupling			36
4" Bobbin to connect two 4" flexible couplings together, or to act as 88mm shaft extender			29
5" Bobbin to connect two 5" flexible couplings together, or to act as 125mm shaft extender			71
5¾" Bobbin to connect two 5¾" flexible couplings together, or to act as 149mm shaft extender			96

	Shaft size	HP/100	Kg thrust	P.O.A.
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 1¼" (19 - 30mm)	4.1	438	405
A-flex P108 double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	¾" to 1¼" (19 - 30mm)	6.8	438	398
Python-Drive P60-K double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1¼" to 1½" (30 - 40mm)	8.2	581	445
A-flex P113 double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1¼" to 1½" (30 - 45mm)	9.7	1071	451
Python-Drive P80-S double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1¼" to 1¾" (30 - 45mm)	11	1224	615
A-flex P115 double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 2" (35 - 50mm)	11	1275	557
Python-Drive P110-S double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 1¾" (35 - 45mm)	15	1224	675
A-flex P125 double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 2" (35 - 50mm)	15	1836	971
Python-Drive P110-T double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 2" (35 - 50mm)	15	1836	854
Python-Drive P140-T double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 2½" (40 - 55mm)	19	1836	1095
Python-Drive P200-T double C.V. universal joint, thrust bearing, gearbox adaptor & shaft coupling	1½" to 2¼" (40 - 60mm)	27	1836	1508
Propeller driven alternator, 12v, 27amp, 20cm pulley, control and warning light				385
Fitting kit to suit selected gearbox or Stringer mount				P.O.A.

## FLYWHEEL DRIVE PLATES

BOATBUILDER £

R&D TYPE	GEARBOX MODELS	RATING HP/100 RPM	BACKPLATE DIAMETERS	PART NUMBERS	GEARBOX	ELEMENT	BACKPLATE
	ZF5M-15	1.1	151mm	22	A		16
	ZF5M-15, PRM260, B/W	1.9	6 1/8"	22/13/2	B		4
	ZF5M-15, PRM260, B/W	1.1	9 1/4"	22/13/2	A		48
	ZF5M-15	1.9	9 15/16", 10 3/8", 12 1/8"	22	B		18/19/20
	ZF5M-15, PRM260, PRM500, B/W	3.8	9 15/16", 10 3/8", 12 1/8", 13 1/4"	43/45/46/42	AG		129/130/131/96
	PRM260, PRM500, B/W	4.8	12 1/8"	14/18/3	G		21
	PRM260, PRM500, B/W	5.7	12 1/8", 14 1/4", SAE 11½"	74/73/71	AL		21/22/48
	PRM260, PRM500, B/W	7.6	14 1/4", 15 3/4"	14/18/3	M		22/23
	PRM500, B/W	7.6	14 1/4", 15 3/4", SAE 11½"	49/48	AD		22/23/5
	PRM500, PRM1000, B/W	10.5	15 3/4", SAE 11½"	31/21/4	P		23/86
	PRM500, PRM1000, B/W	11.4	15 3/4", SAE 11½"	52/51/50	AE		23/101
	PRM1000, SCG 32-spline	14.3	19"	21/27	S		30
	PRM1500, ZF280	22.8	SAE 11½", SAE 14	55/58	Z		78/79
	PRM1500, ZF280	28.6	SAE 11½", SAE 14	55/58	AH		78/79
SURCHARGES FOR SPECIAL BACKPLATES - ON APPLICATION							

## CENTAFLEX TYPE

CFDS 15 B/W, ZF 5A-15, PRM260	2.1	SAE 6½, 7½	from £212	First stage repair, rubbers and circlip	from £20
CFDS 22 B/W, ZF5M-15, PRM260 & 500	9.2	SAE 6½, 7½	from £233	First stage repair, rubbers and circlip	from £22
CFDS 25 B/W, ZF5M-15, PRM260 & 500	9.7	SAE 8, 10, 11½	from £233	First stage repair, rubbers and circlip	from £24

## GEARBOX OIL COOLERS

NETT BOATBUILDER £

Gearbox oil cooler kit, size H and TM	(TH2 £98)	80	Gearbox oil cooler kit, with hoses, size 3 (£15 extra for HP)	201
Weld-on, contact cooled oil cooler kit, with hoses		90	Gearbox oil cooler kit, with hoses, size 4 (£15 extra for HP)	233
Gearbox oil cooler kit, with hoses, size 1 (£10 extra for HP) (PRM150 £129)		129	Gearbox oil cooler kit, with hoses, size 5 (£15 extra for HP)	283
Gearbox oil cooler kit, with hoses, size 2 (£10 extra for HP)		147		

V.A.T. extra on all prices

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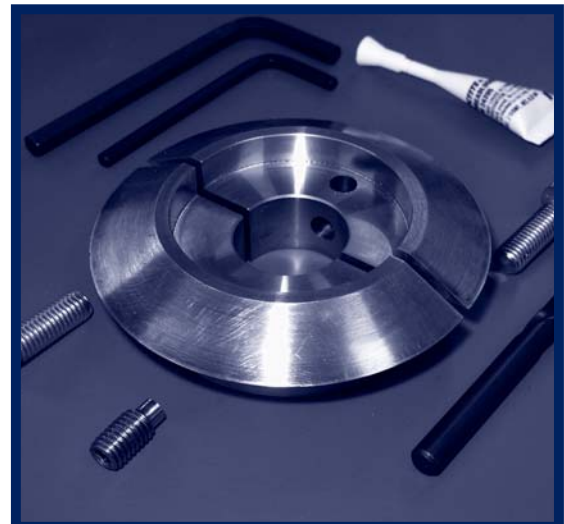
### SHAFTS, TUBES AND BEARINGS

SHAFT SIZE	3/4"	1"/25mm	1 1/4"/30mm	1 1/2"/40mm	1 3/4"/45mm	2"/50mm	2 1/4"	2 1/2"
	£	£	£	£	£	£	£	£
Stern tube Aft Bearing Assembly, with Cutless								
Threaded, scoop-type Bronze, Bolt-in	-	139	152	189	240	346	385	456
Steel, Weld/Cement-in	-	105	118	137	156	161	-	-
Press-on keel-post mounting flange for rear of Brass/GRP Stern tube	42	47	49	55	-	-	-	-
Stern tubing, per 30cm, extra								
Steel	-	14	16	28	30	32	36	40
G.R.P., to Glass-in or Cement-in, (0.6m or 1.2m only)	12	14	16	18	27	31	-	-
Brass	33	36	44	48	66	69	79	79
Clamp-on bulkhead mounting flange for front of Brass/GRP Stern tube	34	39	41	47	-	-	-	-
Thread one end of brass tube for seal or bearing	32	32	32	32	32	32	32	32
Solid, bolt-in, screw-on bearing and gland*	-	67	83	91	145	259	323	334
Screw-on bulkhead mounting flange for front of Brass Stern tube	-	41	43	51	78	87	-	-
Flexible Seal Assemblies, Bronze								
Bronze Rubber-necked Gland*	-	80	92	115	206	210	-	-
Nylon Rubber-necked Gland	54	56	117	-	-	-	-	-
Maincraft Deep Sea Seal Assembly (** H.S. insert £12 extra)	-	167**	167**	179	192**	192	393	418
P-Bracket and bearing								
Bronze, Glass-in, with Cutless	232	244	259	297	516	535	627	650
Mild steel P-bracket boss & phenolic bearing	66	66	76	106	118	154	192	232
Intermediate Shaft Bearing	62	101	101	115	132	198	241	401
Cutless bearing, phenolic casing, std. sizes	21	26	31	38	43	54	75	84
Cutless bearing, brass casing, std. sizes	30	33	38	53	59	77	96	116
Cutless bearing, brass casing, with small outside diameter	-	36	40	68	87	105	131	-
Propeller Shaft Tapered/Plain, type 316 Stainless Steel,								
with Keys, Washer and Nut, 1.2m Long	112	139	170	216	262	319	372	450
Shafting, per 30cm extra	6	11	17	24	33	44	54	68
Extra charge per 30cm overall for high strength in lieu of 316	-	6	7	8	9	11	13	15
Extra for Forward End Taper and Nut	-	63	66	78	87	99	105	125
Spare key, brass (size)	1 (3/16")	1 (1/4")	2 (5/16")	2 (3/8")	2 (7/16")	3 (1/2")	3 (5/8")	3 (5/8")
Spare shaft nut, U.N.C. thread, bronze, hexagon (size)	7 (1/2")	10 (5/8")	16 (7/8")	28 (1")	28 (1")	35 (1 1/8")	35 (1 1/4")	55 (1 1/2")
Propeller Shaft Clamp-on anodes, Std/H.D. (H.D. alum.)	11/20	12/22	13/22	20/27	24/58	34/58	57	57
"Stripper" Propeller Shaft Rope Cutter (Blades)	293 (2)	329 (3)	394 (3)	394 (3)/507 (3)	507 (3)	507 (3)/678 (3)	678 (3)	678 (3)
R&D rope cutter	97	97	104	112	118	118	-	-
Rudder Tube								
Bronze, Glass-in with O-Ring Seal*	-	100	105	110	112	122	-	-
Bronze, bolt-in, with tube, nylon bearing and gland*	-	174	212	251	306	360	-	-
Steel, Cement/Weld-in with Cutless Bearing + Bronze Bush*	-	184	195	223	233	251	-	-
G.R.P. with Cutless Bearing and Bronze Bush*	-	99	109	128	146	162	-	-
Rudder bearing, Bronze, Bolt-in with Packing Gland*	-	67	82	91	145	259	323	334
Tiller Arm, Keywayed Clamp-on	-	61	61	61	104	104	151	151
*Remote Greaser Kit required with these items £45								
Gland packing, per foot (size)		3 (1/4")	4 (5/16")	5 (3/8")	7 (1/2")	9 (5/8")		

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
		£	£	£	£	£
Bronze Cast Rudder Blade and Stock	P.O.A.	-	-	-	-	-
Mild Steel Rudder Blade with Welded-on Stainless Steel Stock		161	185	211	240	285
Stainless Steel Rudder Blade with Welded-on Stainless Steel Stock		180	248	342	536	725
Extra for bottom spigot, welded on		-	40	40	40	40



# Propellers

FIXED	2 BLADE	3 BLADE	3 BLADE	3 BLADE	3 BLADE	4 BLADE	
Blade area ratio	33%	43%	50%	52%	65%	67%	MAX SHAFT
Blade shape	Turbine	Radice	Turbine	Radice	Equipoise	Hyperform 73	SIZE
Diameter, ins	Mag. Bronze	Mag. Bronze	Mag. Bronze	Mag. Bronze	Mag. Bronze	N.A.B.	ins/mm
12	£110	£175	£146	£180	£195	-	1 1/8/28
13	£123	£215	£164	£245	£215	-	1 1/8/28
14	£127	£240	£169	£255	£225	-	1 1/4/31
15	£135	£250	£180	£260	£240	-	1 1/2/40
16	£146	£275	£195	£300	£260	-	1 1/2/40
17	£161	£295	£215	£320	£285	-	1 1/2/40
18	£188	£325	£250	£345	£335	£486	1 1/2/40
19	£209	-	£305	£395	£410	£515	1 3/4/45
20	£240	-	£320	£420	£460	£605	1 3/4/45
21	£281	-	£375	£525	£500	£708	1 3/4/45
22	£308	-	£410	£645	£550	£767	1 3/4/45
23	-	-	£490	-	£660	£821	2/50
24	-	-	£560	-	£745	£865	2/50
25	-	-	£640	-	£855	£953	2/50
26	-	-	£690	-	£920	£1066	2 1/4/60
27	-	-	£780	-	£1045	£1201	2 1/4/60
28	-	-	£830	-	£1110	£1327	2 1/2/65
29	-	-	£875	-	£1170	£1499	2 1/2/65
30	-	-	£930	-	£1240	£1649	2 1/2/65
31	-	-	£1030	-	-	£1798	2 3/4/70
32	-	-	£1120	-	-	£1946	2 3/4/70
33	-	-	£1200	-	-	£2095	2 3/4/70
34	-	-	£1360	-	-	£2251	2 3/4/70
35	-	-	£1600	-	-	£2422	2 3/4/70
36	-	-	£1770	-	-	£2602	2 3/4/70
37	-	-	£1965	-	-	£2795	2 3/4/70
38	-	-	£2160	-	-	£3004	2 3/4/70
40	-	-	£2335	-	-	£3336	3/80
42	-	-	£2545	-	-	-	3/80

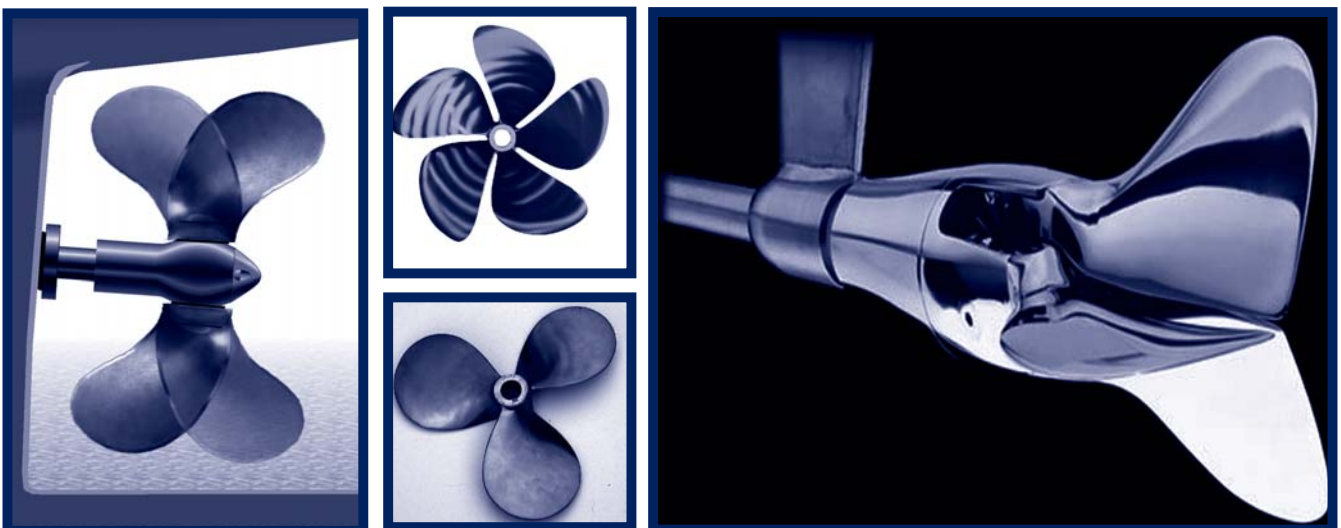
FOLDING	2 BLADE	2 BLADE	3 BLADE	3 BLADE	3 BLADE	4 BLADE	
Blade shape	Radice 23	Gori 25	Gori 45	Auto prop 49	Varifold 46	Varifold 51	
Diameter, ins	Mag. Bronze	N.A.B.	N.A.B.	N.A.B.	N.A.B.	N.A.B.	
12	£470	£605	-	-	-	-	
13	£470	£615	-	-	-	-	
14	£475	£625	£1720	£1430	-	-	
15	£490	£640	£1720	£1490	-	-	
16	£535	£690	£1790	£1700	£1020	-	
17	£585	-	-	£1760	£1070	-	
18	£700	£745	£2200	£1800	£1140	-	
20	-	-	£2300	£1980/2220	£1230	£2210	
22	-	-	£2900	£2350	£1600	£2530	
24	-	-	£3070	£3260	£1880	£2800	
26	-	-	£3460	£3630	-	-	
28	-	-	£6050	-	-	-	
30	-	-	£6350	-	-	-	

Prices are based on availability of pattern equipment in the required pitch and diameter.  
 Prices include taper, bore and keyway to standard 1:12 or 1:16 for imperial and 1:10 for metric.  
 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.  
 Hyperform also available in larger B.A.R. in 4 blade and also in 5 blade. P.O.A.  
 Gori also available in 4 blade, 22" to 38" diameter.

Check limit on shaft diameters.  
 Non-standard tapers extra.  
 Nickel aluminium bronze available on 65%. Add 33%.  
 Cupping available on 65% and 73% B.A.R. Add 15%.  
 For 4 blade turbine and equipoise, add 33%.  
 Prices on application.

**Boat speed and propeller calculation program for PC**

**£50**



	STOCK GEAR RATIOS			MAX PROP DIA	MAX HP/100RPM PLEASURE	NETT BOAT BUILDER £
Sonic, hand tilt, integral gearbox	1.3	1.6	2.0	14"	2.2	3300
Sonic long leg for catamarans, hand tilt, integral gearbox		1.6	2.0	14"	1.5	from 4000
Sonic long leg for catamarans, hand tilt, excl. gearbox	1.0	1.3		16"	1.0	from 3000
Propeller nosecone kit for Enfield and Sonic						40
Set of 8 Transom bolts for Enfield and Sonic						25
Adaptor, Borg Warner style bell housing to Volvo drive, excluding primary shaft (or modify original Volvo housing & weld to housing or ring £ 135)						270
Adaptor, Volvo 200, 250, 270 or 280 Transom cut out to Mercruiser drive, or OMC Cobra drive						330
Extension for (15/16), Enfield or Sonic drive coupling 22cm to 60cm to order						71
Auxiliary rudder for Enfield						95
Gearshift attachment kit for Enfield (Bracket £11, cable end £22)						33
SternPowr 113, hydraulic trim & steering, excl. gearbox	1.32	(1.6)		19"	9 (7.5)	8752
Integral mounted Borg Warner 72, for 101, 111 & 113 drives, including intermediate housing					8.6	2116
Intermediate housing and universal joint shaft adaptor						1296
Universal joint shaft, 30cm to 1.8m, with gearbox adaptor						328
Transom housing exhaust connection, 4" single bend, 60cm of 4" hose and 4 hose clips						217
Transom mounted water pickup, hose and 2 hose clips						57
12/24v insulated return motor and relay for power trim, in lieu of 12v earth return						180
Mechanical trim angle indicator cable, up to 4 metres long, with fittings (Per 1.0 metre extra £3)						57
Drive leg extension kit, with 2" spacer, fitted to drive. (Retro-fit £846)						531

## THROUGH-HULL DRIVES

Technodrive Sea Prop 60, engine-mounted sail drive	2.15	(2.38)		18"	2.2 (1.65)	2595
Vetus saildrive (only with Vetus engine)	2.23	2.49		18"	2.2	2235
Sonic lower unit, bolt-in type, for propulsion or bow-thruster use	1.0			16"	2.2	2200
SternPowr lower unit, bolt-in type	1.0	1.3		19"	9 (7.5)	4200

## SPARE PARTS FOR STERNDRIVES

	£	£		£	£
	ENFIELD	STERNPOWR		ENFIELD	STERNPOWR
Drive shaft gaiter	27.50	120	Trim hose set (external)	-	346
Universal joint repair kit (2 required per drive)	82 & 176	47	Anode set with screws	21	30
Seal and gasket kit	31	189	Input shaft flexible coupling (2 required per drive) (new type)	40	-
Steering hose set (external)	-	174	Repair manual and parts book	11	30

## SURFACE DRIVE UNITS Data Book Pages 18 & 19

L.M. Transom Drive 14, single, with rudder and hydraulic steering, excl. gearbox	14"	2857
L.M. Transom Drive 17, single, with rudder and hydraulic steering, excl. gearbox	17"	3055
L.M. Transom Drive 20, single, with rudder and hydraulic steering, excl. gearbox	20"	3306
L.M. Transom Drive 17, pair, without rudders, with single transom-mounted rudder assembly, and hydraulic steering and helm head, excl. gearbox	17"	4718
L.M. Transom Drive 20, pair, without rudders, with single transom-mounted rudder assembly, and hydraulic steering and helm head, excl. gearbox	20"	5172

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

	£
Aluminium replacements for Volvo Duoprop in sizes A3, A4, A5, A6, A7, B4, B5 & B6,	350
Aluminium 13" and 14" diameter for Enfield and Sonic	130
Nibral, 14" diameter solid hub for Transom Drive 14	460
Aluminium 17" x 21" L.H., cushion hub for SternPowr 80, 81, 101 and 111 (replaces SMC807)	325
Aluminium 17" diameter, small solid hub for SternPowr 81, 101 and 111, and 18" for sea prop 60	325
Aluminium 19" diameter, solid hub for SternPowr 82, 83, 103 and 113	395
Nibral, 17" diameter solid hub for Transom Drive 17, SternPowr 107 and MCR III SSM (4-blade £ 945)	510
Aluminium 20" diameter for SternPowr 90, 91, and 191	395
Nibral 20" diameter, solid hub for Transom Drive 20 (4-blade £ 1286)	782
Aluminium 16" diameter, solid hub for Sonic through-hull drive, and Sonic Catamaran drive, taper shaft	275
Adaptor for Volvo type 14" to 16" propellers to SternPowr drives	185

## CASTOLDI WATER JETS

## NETT BOATBUIDER £

## NETT BOATBUIDER £

Jet 05, Type "A", single, basic unit without control systems	5316	Turbodrive 238 Type "HC-A", single, Electro-hydraulic controls, hydraulic steering	15916
Jet 05, Type "C1", single, side mount control, mechanical steering	6108	Turbodrive 238 Type "HC-E", twin, Electro-hydraulic controls, hydraulic steering	29958
Jet 05, Type "G", twin, Hydromech reverse, hydraulic steering	15124	Jet 282, Type "A", single, basic unit without control systems	11235
Turbodrive 238 Type "A", single, basic unit without control systems	8416	Jet 282, Type "D", single, Hydromech reverse, hydraulic steering	14978
Turbodrive 238 Type "D", single, side mount control, hydraulic steering	9049	Jet 282, Type "F", single, Electro-hydraulic reverse, power steering	14999
Turbodrive 238 Type "E1", single, Electro-hydraulic reverse, hydraulic steering *	11433	Jet 282, Type "H", twin, Electro-hydraulic reverse, power steering	27399
Turbodrive 238 Type "E3", single, Hydromech reverse, hydraulic steering *	10449	Jet 282, Type "I", twin, with Hydromech reverse, power steering	26506
Turbodrive 238 Type "K", twin, Electro-hydraulic reverse, hydraulic steering *	21833	Turbodrive 340, Type "E", single, Electro-hydraulic controls, power steering	26222
Turbodrive 238 Type "L", twin, Hydromech reverse, hydraulic steering *	20274	Turbodrive 340, Type "G", twin, Electro-hydraulic controls, power steering	51834
Control cables and steering hoses for all models	extra	Aluminium mounting frames to weld into aluminium hulls	P.O.A.

\* Requires power steering pump to be provided on engine

Castoldi prices are based on €1.06 = £1.00. SternPowr prices are based on \$1.60 = £1.00. Prices charged will depend on exchange rate at the time of order.



# Bowman Heat Exchangers & Oil Coolers

## SPECIALISED COMPONENTS

### MANIFOLDS

Bedford 330, F/W	GM540**	£725
Bedford 466/500, F/W	GM760**	£868
Ford 4D & D series, S/W, 32mm	FM420-2825	£612
Ford 4D & D series, F/W, 45mm	FM420-3374	£577
Ford 4 cylinder 2720 series, F/W, 45mm	FM422	£577
Ford 6D & D series, S/W, 32mm	FM620-2824	£693
Ford 6D & D series, F/W, 45mm	FM620-3376	£663
Ford 6 cylinder 2720 series, F/W, 45mm	FM622	£665
Ford Cologne V6, F/W	FM280*	£162
Mercedes V6, F/W or S/W	MB480**	£336
Mercedes V8, F/W or S/W	MB640**	£902
Mercedes V10, F/W or S/W	MB800**	£1053
Mercedes V12, F/W or S/W	MB960**	£1439
New Holland 666 & 678	FM710	£584

\* with exhaust riser fitted £283

\*\*Whilst stocks last

### MANIFOLD/HEADERTANK/HEAT EXCHANGERS

B.M.C. 3.4-3.8 & 4/98	BL380**	£811
B.M.C. 5.7 & 6/98	BL570**	£848
Bedford 220	GM370**	£888
Bedford 330	GM550**	£1127
Ford 1600cc cross-flow	FM160**	£557
Ford 1.6 & 2.0 litre, O.H.C.	FM200**	£459
Landrover 2.25 litre	LR250	£574
New Holland 4 cylinder	FM402	£666
New Holland 6 cylinder	FM602	£853
Mercedes 300, 5 cylinder	MB300	£693
Perkins 103	PE150	£385
Perkins 104	PE122	£403
Perkins 3-152, including thermostat cap	PE3-152+PE26	£392
Perkins 4-154	PE250	£462
Volkswagen 2400cc	VW240	£472

Less 10% if "Keel Cooling" type

### CHARGE AIR COOLERS

Perkins T6-354 & HT6-354	2644 & 2645**	£681
Ford 2700/2720 series Turbo 4	2934-2	£549

### HEADERTANK/HEAT EXCHANGERS

Bedford 220 & 330 incl. oil cooler	FH280**	£885
Cummins 4B, 4BT, 6B & 6BT	CB100	£324
Ford 4D & 6D Trader	FH210	£608
Ford D series, 4 cylinder & 6 cylinder	FH220	£608
Ford D series, 6 cylinder & turbo	FH320	£732
Ford 2704ET, old style	FH420A	£757

Ford 4 cylinder & 6 cylinder 2720 series	FH440	£412
Ford 4 cylinder & 6 cylinder 2720 series	FH450	£490
Ford 6 cylinder, turbo intercooled 2728 TIM	FH480	£664
Perkins 4-107 & 4-108 incl. oil	FH140	£651
Perkins 4-236, incl. oil	FH270	£697
Perkins 6-354 & T6/354 (not -2642)	FH410-2986	£546
Perkins H6-354 & HT6-354 (not -2643)	FH410-3006	£546

### GENERAL PURPOSE COMPONENTS

Oil cooler for 54HP	DC60	£57
Oil cooler for 80HP	DC90	£65
Oil cooler for 110HP	DC120	£76
Oil cooler for 80HP	EC80	£101
Oil cooler for 120HP	EC100	£130
Oil cooler for 165HP	EC120	£153
Oil cooler for 200HP	EC140	£183
Oil cooler for 240HP	EC160	£227
Oil cooler for 180HP	FC100	£258
Oil cooler for 240HP	FC120	£293
Oil cooler for 300HP	FC140	£347
Oil cooler for 360HP	FC160	£399
Sump pump, threaded 3/8" ENOTS		£31
Thermostat housing,	BL4, BL5	£15
Thermostat housing	BL6	£20

Charge air cooler for 120HP	EC140	£315
Charge air cooler for 140HP	FC100	£308
Charge air cooler for 200HP	FG100	£453
Charge air cooler for 280HP	GL140	£627
Heat exchanger for 25HP	DH120	£178
Heat exchanger for 54HP	EH100	£232
Heat exchanger for 67HP	EH200	£253
Heat exchanger for 95HP	EH280	£333
Heat exchanger for 85HP	FH100	£300
Heat exchanger for 120HP	FH200	£371
Heat exchanger for 160HP	FH300	£469
Heat exchanger for 200HP	FH400	£557
Heat exchanger for 240HP	GH200	£672
Heat exchanger for 335HP	GH300	£860
Heat exchanger for 400HP	GH400	£977

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

### SPARE PARTS FOR BOWMAN EQUIPMENT

		22mm	28mm	32mm	£. p.
Rubber oil cooler end cap, straight.	part no.	3365	3366	3367	7.00
Rubber oil cooler end cap, elbow.	part no.	2680	3187	3716	8.00
Rubber heat exchanger end cap, small, straight	part no.	3251	3667		10.00
Rubber heat exchanger end cap, small, elbow	part no.	2679	3186		10.00
Rubber heat exchanger end cap, large, elbow	part no.		3192		15.00
Filler cap, small 2753	£7.00	Screw-in filler neck, small 3921-1	£15.00	cap & neck	22.00
Filler cap, large 2747	£9.00	Screw-in filler neck, large 3921-2	£21.00	cap & neck	31.00
O-ring, 76mm I.D., thin	part no. AN12				1.10
O-ring, 76mm I.D., thick	part no. OS41				1.40
O-ring, 95mm I.D., thick	part no. OS46				1.70
O-ring, 114mm I.D., thick	part no. OS52				2.30
Rubber cap 45mm I.D.,	part no. 2981				7.00
Long 3/8" UNF nuts for Ford exhaust manifolds					1.00
Tubestacks, bodies and other spare parts					enquire for prices
Rubber end caps for Polar heat exchanger, manifolds and oil coolers					enquire for prices

V.A.T. extra on all prices

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# Marinising parts for Diesel engines

Part No.	Standard HP/RPM (Approx)	#	B.M.C.	ROVER	B.M.C.	CHEVROLET	GARDNER
			1.5 & 1.8 J4 VAN 15/18 30/40@3000	MONTEGO MAESTRO 37 50@4000	2.2 & 2.5 TAXI, LD VAN 25 40/50@3000	V-8 6.2 LITRE 85 160@3800	6LX/LXB 6-CYL 82/83 150/170@1700
<b>INDIRECT COOLING AND MARINISING COMPONENTS</b>			£	£	£	£	£
03	Jabsco water pump, mount and drive		250	250	248	287	239
05	Manifold/header tank/heat exchanger		409	754 jj	462	1344 jj	469 d
	Bowman part no.		BL180	—	BL250		FH300
06	Manifold outlet & water connection for exhaust hose (size)		63 (2")	— (2")	63 (2")	357 each (3")	205 (3½")
07	Hose & connection kit (inlet size, mm)		33 (22)	109 (22)	61 (22)	550 (32)	190/263 (32)
08	Heat exchanger mount		—	—	—	—	245
09	Hose clip kit		22	54	32	53	30
IND	Marinising kit using the above components (if for use with jet-pump, deduct item 03)		777	1167	866	2948	1378/1451

## FLYWHEEL CONNECTIONS, BELL HOUSING & REAR MOUNT BRACKETS, AS REQUIRED

15	for Enfield or Sonic (a) sterndrive		293 r/153 r	505 q	294	—	—
18	for Borg Warner 71, ZF 25 & 25A, Paragon PM & Techno 345A gearboxes (g)		318 w	492 f	316	301 w	—
19	for ZF5M-15M, PRM 120/150 & Techno 60 gearboxes		319 w	382 f	312	—	—
20	for P.R.M. 260 gearbox (500 for 6-cyl)		315 w	357 f	312	—	—
31	for P.R.M. 750 & 1000 (1500 for 8 cyl)		—	—	—	—	718

## OTHER COMPONENTS

38	Front mount brackets & front & rear mount rubbers		220	190 v	183	193	302
39	Sports air cleaner/strainer/intake assembly as required		30/21	—	31	—	—
02	Oil cooler assembly	(x)	230 j/62 f	168	230 j	153	217/194

### NOTES

- |   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| a | Extra flexible coupling required for Sonic £40.                      |  |  |  |  |  |  |
| d | Manifold not included.   |  |  |  |  |  |  |
| f | Additional/different components may be required dependent on origin. |  |  |  |  |  |  |
| g | Requires ZF/Borg Warner adaptor for ZF 25M & 30M £57.                |  |  |  |  |  |  |
| h | Bracket not included.  |  |  |  |  |  |  |
| j | Includes conversion to "Spin-on" oil filter.                         |  |  |  |  |  |  |
| l | Modify inlet manifold if side entry £140.                            |  |  |  |  |  |  |
| q | Fit to engine £30 (Peugeot XUD £45).                                 |  |  |  |  |  |  |
| 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;

# Separate marinising components

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

Perkins T6-354 & HT6-354, direct replacement	£795
Scania DS11 (not as original)	£887
Volvo TD70 (not as original)	£590

## EXHAUST MANIFOLDS & RISERS - PETROL

Chevrolet petrol V8 small block per pair	£331
Chevrolet petrol V8 big block per pair	£350
Ford petrol V8 small block per pair	£334
Risers for above V8's per pair	£184
Ford 1100 -1600 X-flow, raw water cooling	£356
Ford 1.6litre & 2litre O.H.C.	£392
Ford Essex V6 per pair	£744
Risers Ford Essex V6, pair, for 2" exhaust hose	£192
Jaguar twin for XK120 - 150	£692
Droppers for Jaguar XK120 - 150, pair	£192
Jaguar V12 per pair	£1003
Rover V8 per pair	£548
Risers Rover V8 per pair	£390

## TONVAL BRASS B.S.P. HOSETAILS

THREAD	FOR HOSE BORE mm				£.p.
3/8"	10	16			3.00
1/2"		14	16	20 22	3.00
3/4"			20	22 25 28	3.00
1"				25 28 32	4.00
1 1/4"				32 38 45	6.00
1 1/2"				32 45 7.00	

## HOSES & CONNECTIONS

Rubber elbow hose, 22mm bore	£7
Rubber elbow hose, 30mm bore	£7
Rubber elbow hose, 32mm bore	£12
Rubber elbow hose 35mm bore, 270mm long leg	£13
Rubber elbow hose 38mm bore, 270mm long leg	£14
Rubber elbow hose 45mm bore, 270mm long leg	£16
Rubber elbow hose 50mm bore, 270mm long leg	£16
Rubber Hose 3734, 31mm bore	£25
Rubber Hose 3070, 38mm x 31mm bore	£16
Rubber Hose, Sabre 16134/16050, bent elbow	£23
Rubber Hose, Sabre 16010/16143, 33mm x 44mm, straight	£8
Rubber Hose Sabre 16000/16128, 33mm x 44mm, elbow	£24
Turbo hose 22mm bore 2" long	£4
Turbo hose 2" bore 2" long	£8
Turbo hose 3" bore 2" long	£12
Turbo elbow 50mm bore, 90mm + 230mm legs	£52
Blue silicone hose elbow 45mm	£25
Blue silicone hose elbow 50 mm x 45mm	£31

## ADJUSTABLE RUBBER MOUNTS

TYPE	MAX LOAD EACH POUNDS (Kg)	BOATBUILDER £ EACH
C-Type	190 (86), 300 (136)	17
Small, soft	91 (40), 171 (86)	19
Standard	230 (104), 410 (186), 560 (255) 680 (309)	25
Heavy duty	760 (345)	34
Double acting	670 (305) (3/4" stud)	46



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 6 CYL OM352/321 32 125@2800	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
------------	--------------------------------	--	-------------------------------------	-------------------------------------	--------------------------------------	-----------------------------------	--	--------------------------------------

	£	£	£	£	£	£	£	£
03	250	248	248	248	284	250	248	250
05	574	522	1122	1218	879	447 jj	805 y	405
	MB180	MB220	—	—	MB570	—	PG210	VW150
06	45 (2")	63 (2")	83 (2½")	83 (2½")	60 (3")	— (2")	72 (2")	69 (2")
07	68 (22)	61 (22)	49 (22)	49 (22)	64 (28)	126 (22)	133 (22) hh	80 (22)
08	—	—	—	—	—	—	—	—
09	22	16	21	21	43	34	50	37
IND	979	910	1523	1619	1330	857	1319 f	841

15	107 hq	107 hq	107 hq	—	—	109 hq	356	409 bb
18	227	313	400	400	769	377 q	363 ff	456 bb
19	278	309	436	—	—	370 q	359 ff	466 bb
20	—	310	453	453	779	—	352 ff	—
	—	—	—	—	729	—	—	—

38	174	226	293	293	198	255 v	193	203
39	30	31	31	31	—	40	—	31
02	—	74	—	—	—	171 q	168 q	150

#### NOTES

- v Includes alternator mount.
- w Flywheel weight pad required on 1.8, £129, and 6.2, £267.
- x Oil-cooler required if speed is over 75% of maker's maximum.
- y May require modification to alternator mount. Includes air cleaners.

- 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 £150 extra. Adaptors available for PRM, Techno and ZF types 12-30.
- hh If for Ford type engine, deduct £12.
- jj Manifold and heat exchanger are separate units.

#### VW 2400 Diesel, Land Rover 2¼ & 2½.

#### OIL FILTER CONVERSIONS TO SPIN ON INCLUDING FILTER

BMC1.5 to 2.5, Perkins 3-152 & 4-203	£59
Ford 4D/6D 2700 & 2720 series, BMC 3.4- 5.7 & Leyland 4- 6/98	£40
Perkins 4-108, 4-236, & 6-354	£45

#### JABSCO WATER PUMP IMPELLERS

	£
1210	18
1414	14
17935 (WAS 836)	27
17936 (WAS 21676)	66
17937 (WAS 920)	21
18777 (WAS 21220)	33
4528	13
6303	14
653 (12mm)	15
673 (½")	16
7273	17
9200	19

#### AIR STRAINERS

Sparrow catcher, plain for turbos 50mm bore	£39
Seagull catcher, chrome for turbos 70mm bore	£40
Albatross catcher, plain for turbos 100mm bore	£47
PF139 136mm dia 25mm deep blank flange	£22
RF115 136mm dia 47mm deep 65mm offset spigot	£31
RF126 136mm dia 47mm deep 51mm offset spigot	£30
6"dia., 3"deep Stainless steel acoustic, 60mm to 78mm	£69

#### MISCELLANEOUS

Anode bar 12" long	£59
CAV 296 fuel filter	£3.50
Oil block Perkins/Ford/GM	£72
Thermostats standard	£12
Thermostats by-pass type	£16

#### STARTER MOTORS, NEW, STANDARD ROTATION

ENGINE TYPES	12v E. Rtn	12v Ins Rtn	24v Ins Rtn
Ford XLD 1600 & 1800	£120	—	—
Ford Transit	£135	—	—
Ford 4D to 2720 series	£135	£480	£480
Ford H.D and New Holland	£235	£480	£480
Perkins 4-236 & 6-354	£135	£480	£480
B.M.C. 3.4 to 5.7	£480	£480	£480
B.M.C. 98 series	£135	£480	£480

Other makes and variations available. Request information.

#### ALTERNATORS, NEW

12v, 50A & 70A, Earth Return, Standard Euro frame and mount, single-vee pulley	£135
Extra for poly-vee pulley	£20
Extra for Insulated Return	£25
12v, 100A, Earth Return, Standard frame and mount, poly-vee or 2 groove pulley	£202
Extra for insulated return	£50
Extra for 24v 50A insulated return	£80

Other makes and variations available. Request information.

# Ford diesel engine marinising & parts

ENGINE BUILDER PRICES £

Part No. **For turbocharged Ford engines see pages 20&21**

	FORD 4-CYL 2701-12E D-Series 74 e	FORD 4-CYL 2722E Cargo 94 e	FORD 6-CYL 2703-15E D-Series 76 e	FORD 6-CYL 2725E Cargo 96 e	FORD 4-CYL XLD1600/1800 Escort/Fiesta 19/13	FORD 4-CYL FSD2500 Transit 29
STANDARD HP/RPM (APPROX)	68-80@2500	85@2500	106-120@2500	127@2600	40/50@4000	70@4000

BASIC MARINISING COMPONENTS			£	£	£	£	£	£
02	Oil cooler, connections & pipes	(x)	264 g	264	266 g	333 g	170/251 f	134
03	Jabsco water pump, mount and drive		238 a	381	238 a	381	248	274
05	Manifold/header tank/heat exchanger		671	671	974	882	374 m	474
	Bowman part no.		FM450	FM452	FM660	FM662	FM180	FM240 h
06	Manifold outlet with water connection (size)		61 (3")	61 (3")	61 (3")	61 (3")	62 (2")	61 (2")
07	Hose & connection kit (inlet size mm)		87 (28)	104 (28)	90 (28)	199 (28)	121/126 (22)	143 (22)
08	Heat exchanger mount bracket(s)		9	9	14	14		
09	Hose clip kit		27	27	27	45	30	40
IND	Marinising kit using the above components		1357	1517	1670	1915	1005/1040	1126

## FLYWHEEL CONNECTIONS, BELL HOUSING & REAR MOUNT BRACKETS, AS REQUIRED

15	for Enfield or Sonic (r) sterndrive		-	-	-	-	387 q	233
18	for Borg Warner 71, ZF25 & 25A, Paragon PM & Techno 345A gearboxes		405	405	397	397	302/301	321
19	for ZF5M-15M, PRM 120/150 & Techno 60 gearboxes		-	-	-	-	290	317
20	for P.R.M. (260 for 4 cyl, 500/750 for 6 cyl)		409 c	409 c	407 c	407 c	326 k	317
31	for P.R.M. (500/750 for 4 cyl, 1000 for 6 cyl)		416 c	416 c	417 c	417 c	-	-

## OTHER COMPONENTS

38	Front mount brackets & front & rear mount rubbers		228 n	347 n	228 n	345 n	160	205
39	Air intake strainer		57	57	57	33	86/195	34 h
40	Manifold outlet with flex connection for dry exhaust		105	105	119	119	105	105

### NOTES

- |   |  |  |  |  |  |      |  |  |
|---|--|--|--|--|--|------|--|--|
| a | Use brake pump drive gear, £143, if required.  |  |  |  |  |      |  |  |
| c | If heavy flywheel £30 extra. If for 4:1 reduction £45 extra.   |  |  |  |  |      |  |  |
| d | Mount bracket not included.  |  |  |  |  |      |  |  |
| e | Requires modification of original truck sump and pick up £200, or if originally an upright engine, change of water pump £69. |  |  |  |  |      |  |  |
| 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   |  |  |  |  | £120 |  |  |
| k | Requires gearbox input shaft to be shortened by 30mm   |  |  |  |  | £30  |  |  |
| m | Blanking cover for vacuum pump aperture  |  |  |  |  | £51  |  |  |
| n | Includes alternator re-mounting parts.   |  |  |  |  |      |  |  |
| q | Fit to flywheel  |  |  |  |  | £30. |  |  |
| r | Extra flexible coupling required for Sonic drive   |  |  |  |  | £40  |  |  |
| x | Oil cooler may be deducted if operating speed required is less than 75% of maker's maximum                                   |  |  |  |  |      |  |  |

# Lehman parts for Ford based engines

## OIL COOLERS

2C207	use 2C212	
2C212 9" long, 3/8" oil ports		£95
2C220	use Bowman EC100	
2C233	use 2C238	
2C234	use 2C207	
2C235	use 2C236	
2C236 12" long, 1/2" oil ports		£127
2C237	use 2C212	
2C238 9" long, 1/2" oil ports		£95
2C243	use Bowman EC100	
2C244	use 2C212	
2C245	use Bowman EC100	
2C272	use Bowman EC120	
2C274	use Bowman EC100	

## HEAT EXCHANGERS

2C211	use 2C218	
2C213	use 2C219	
2C218 6-cyl Dorset, 6D363/380		£595
2C219 4-cyl Dorset, 4D242/254		£550
2C225 6-cyl Dorset Turbo, 6D363		£595
2C232	use 2C239	
2C239 6-cyl Dover, SP135		£595
2C240	use 2C242	
2C242 4-cyl Dover, SP90		£595
2C246	use 2C269	
2C269, 6-cyl Dover Turbo, SP185/225		£595
2C273 6-cyl Dover Turbo Intercooled, SP275		£595

## OTHER SPECIALISED PARTS

Thermostat assembly to replace 2C250		£139
Anodes EM21A (pack of 5)		£20
Oil filter spigot to allow use of more common 2N53 filters in place of 2N50		£17
Air strainer assembly to replace 2H75 & 1F7		£59
Exhaust and inlet manifold kit to replace 1A387 (N.L.A. on SP135)		£1050
Turbo fitting kit for SP185 (for SP255 & 275, request advice)		£250
Engine circulation pump E15010 for 4D220		£69

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 marinising parts.

We can also supply engine parts for the Peugeot based 4D50 and 4D61, and although almost all of the original marinising parts for these are no longer available, we are able to offer substitutes that convert both of them to more modern systems.



# Repair parts for Ford diesel engines

ENGINE BUILDER PRICES £

	XLD £	FSD £	2712E £	2715E £	2704ET £	2722E £	2725E £	2726T £	2728TIM £
Head gasket	16*	17	23	23	23	23	23	70	70
Rocker cover gasket	9	6	8	19	19	8	19	19	19
De-coke set	28	40	53	75	75	94	161	161	161
Sump gasket set	18	9	28	15	15	28	15/41*	15/41*	41
Front crank seal	—	—	7	7	7	7	7	7	7
Rear crank seal	6/36*	13	5	5	5	5	5	5	5
Manifold to head gaskets	11	13	9	9	9	15	15	15	15
Overhaul gasket set	130	100	97	97	97	85	200/241*	200/241*	241
Piston ring set per piston	54	218	72	72	72*	66	66	56	56
Piston pin & rings	79	141	98	98	256	202	202	261	261
Main bearing set	59	43	50	107	107	50	107	107	107
Thrust bearing set	18	—	11	11	11	11	11	11	11
Big end bearing set	20	22	41	97	97	41	97	97	97
Intake valve	36	14*	19/62*	19/62*	19/62*	22	22	22	22
Exhaust valve	13	15*	11/21*	11/21*	11/21*	21	21	21	21
Valve spring set	40	41	48	72	72	48	72	72	72
Cylinder head bolt set	30*	50	77	113	113	77	113	113	113
Cylinder liner	—	30	91	91	91/144*	91	91	91/144*	144
Injection pipes minmec set (or Bosch)	(71)	(82)	140	210	210	140	210	210	210
Jabsco pump to block gasket	—	—	3	3	3	3	3	3	3

\*Further information required when ordering this item

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	69
Dorset, 5 o'clock inlet, bolt-on pulley	111
Dover, dual inlet, bolt-on pulley	179
Dover, dual inlet + outlet, single vee pulley	154
Dover, dual inlet + outlet, poly-vee pulley	154

## FUEL LIFT PUMPS

£

Dorset. Diaphragm type	34
Dorset & Dover, Bosch plunger type 0.440.004.067 (while stocks last)	131
Dover & Otosan, horizontal plunger type	107

## OIL PUMPS

£

Centre-mounted for Dorset & Dover Industrial	188
Front-mounted Dover & Otosan	585

## OTHER ITEMS

£

De smoking kits for 150 - 300HP 6-cylinder turbo engines to reduce white smoke on start-up	450
Twin element fuel filter assembly, Dorset or Dover	95
6 cyl sump Dorset (short) or Dover (long)	395
Exhaust manifold, Dorset turbo, to replace 693F9429FJAA	905
Stepped studs, cylinder head to manifold	4.40
6-cylinder camshaft and 12 followers	330
Reprint workshop manuals, most models	20

Turbochargers, exchange, re-built	from 375
Injection pump overhauls	from 395
Large oil filter element for Dover & Otosan	32
Spin-on oil filter conversion with filter element	40
1 or 2 groove damper for all engines with centre oil pump	145
Starter motors and alternators,	see page 13
Flange adaptors to allow use of Dorset manifolds on Dover, non-turbo engines	pair 100

## 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.

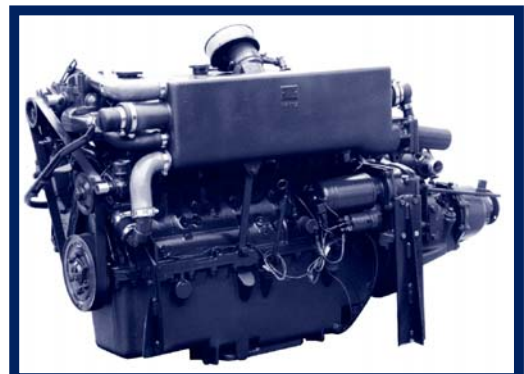
Parts also available for other Ford, Perkins and Cummins engines.

## NEW FORD AUTOMOTIVE INDUSTRIAL AND PART BUILT ENGINES

Complete, new engines, with fuel injection system, and for all except long blocks, with starter motor, alternator, water pump, flywheel and inlet manifold, but without marine equipment. FSD and XLD long blocks have no injection equipment or timing gears. 2725E long block has no injection equipment.

MODEL	CAPACITY	POWER	R.P.M.	CYLS	FUEL	PRICE
XLD1800 LONG BLOCK	1.8 LIT	59	4800	4	DIESEL	£1966
FSD LONG BLOCK	2.5 LIT	75	4000	4	DIESEL	£1923
*PUMA	2.4 LIT	78/110	3900	4	DIESEL	£2526
EHD 445	4.5 LIT	81	2300	4	DIESEL	£4199
EHD 667	6.7 LIT	109	2500	6	DIESEL	£5235
EHD 667T	6.7 LIT	135	2300	6	DIESEL	£5650
2725E LONG BLOCK	6.2 LIT	143	2600	6	DIESEL	£3545
NHD675	7.5 LIT	115	2100	6	DIESEL	£8399

\* TURBOCHARGER, FUEL FILTER AND ALTERNATOR NOT INCLUDED



# Perkins diesel engine marinising & parts

Part No.	For turbocharged Perkins engines see pages 20&21	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
		4/99 197 & 8 Light vans	3-152	4-236	4-CYL PHASER	6-354	6-CYL PHASER
#	STANDARD HP/RPM (APPROX)	99	03	36	110 y	54	108 y
		35-40@3500	47@2500	75@2500	80@2600	110@2600	120@2600

BASIC MARINISING COMPONENTS		£	£	£	£	£	£
02	Oil cooler, connections & pipes	—	—	257 g	—	257 g	—
03	Jabsco water pump, mount and drive	250	212	373	432 q	221 a	432 q
05	Manifold/header tank/heat exchanger	399	392	591	591	776	791
	Bowman part no.	PE180	PE3152	PE390 x	PE390 x	PE580 x	PE1006 x
06	Manifold outlet with water connection (size)	64 (2")	64 (2")	60 (3")	60 (3")	60 (3")	60 (3")
07	Hose & connection kit (inlet size mm)	114 (22)	97 (22)	145 (28)	158 (28)	130 (28)	91 (28)
08	Heat exchanger mount bracket(s)	—	—	N/A	95 u	N/A	N/A
09	Hose clip kit	27	29	37	45	42	42
IND	Marinising kit using the above components	854	794	1463	1381	1486	1416

FLYWHEEL CONNECTIONS, BELL HOUSING & REAR MOUNT BRACKETS, AS REQUIRED							
18	for Borg Warner, Paragon, SternPowr & ZF 45-80	444 c	374 p	578 v	365 p	569 w	365 p
19	for ZF5M-15M, PRM 120/150 & Techno 60 gearboxes	472 d	365 p	—	—	—	—
20	for P.R.M. (260 for 4 cyl, 500/750 for 6 cyl, 1000 for 6 cyl)	—	378 p	592 w	378 p	589 w	532
31	for P.R.M. (500/750 for 4 cyl, 1000 for 6 cyl)	—	—	592 w	384 p	599 w	427 p

OTHER COMPONENTS							
38	Front mount brackets & front & rear mount rubbers	163	189	257	252	252	252
39	Air intake strainer	30	31	31	69	57	69
40	Manifold outlet with flex connection for dry exhaust	101	101	104	104	119	118

## NOTES

- |   |  |   |  |
|---|--|---|--|
| a | Uses truck brake pump components. Alternative available £93 if required  | p | Requires SAE flywheel housing.   |
| c | If Ford Transit type engine fit to flywheel £40.                         | q | For 4" dia. aperture, price as # 103 (Cummins)   |
| d | If Ford Transit type engine £40 extra plus fit to flywheel £40.          | u | Part kit only.   |
| g | Includes replacement "Spin-on" filter assembly.                          | 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. |
| o | Owing to variations in engine designs, extra components may be required. | x | Inlet manifold may require modification or replacement.  |
|   |  | y | Not for cross-flow engines   |

# Repair parts for Perkins diesel engines

	4107 £	4108 £	4236 £	6354 £	T6354 £
Head gasket	33 (RW)	38 f	32 f	51 f	51 f
Rocker cover gasket	6 f	6 f	10 f	26 f	26 f
Cylinder head gasket set	71 (RW)	73 f	68	111 f	111 f
Sump gasket set	32	32	44 f	45 f	45 f
Front crank seal	4	4	19 f	19 f	19 f
Rear crank seal	—	—	19	19	19
Overhaul gasket set	120	120	140	161	161
Piston ring set, per piston	22	13	27	35	35
Piston pin & rings	53	74	69	63	111
Main bearing set	20	20	32	228 f	228 f
Thrust bearing set	10	10	9	9	9
Big end bearing set	14	14	16	40	71
Intake valve	10 f	6	9 f	6	9 f
Exhaust valve	10	6	10	10	10
Valve spring set	62	62	68	102	102
Cylinder liner	54	38	42	31	38
Injector	repair only	58	71	103	103
Water pump	70	65	46	99	99

RW = raw water cooled

Items marked 'f' may be aftermarket items

OTHER PARTS FOR PERKINS DIESEL ENGINES	£	£
Conversion kit to alter 4-107 or 4-108 from raw watercooled to heat exchanger system	£720	Exhaust manifold T6354 water cooled (OEM part number ZZ90054) £795
Exhaust injection outlet for 4-108 5 stud manifold	£99	Stud and gasket kit for above £95
Cylinder heads complete with valves and springs 4108	£595	One piece, custom made exhaust injection outlet for T6354, to replace original 2-piece type £295
Heat exchanger manifold for M50, M60 & M80T	£995	Adaptor Manifold to Turbo for HT6354 (OEM cast number 37766600) £295
Spin-on oil filter conversion with filter element	£45	Kits to re-marinise 4-236 & 6-354 where some exhaust manifolds are no longer available P.O.A.

For starter motors, alternators & turbochargers read part numbers from existing components for competitive quotation. See also page 13.

When placing orders for Perkins parts it is essential that engine serial number, found on cylinder block close to injection pump mounting, is quoted

# Cummins diesel engine marinising & parts

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

BASIC MARINISING COMPONENTS		£	£	£	£	£	£	£	£
03	Jabsco water pump, mount and drive	440	440	448	440	448	448	448	448
01	Exhaust manifold	760	558	2857	760	558	558	2857	2857
	Bowman part no.	CM600(mod)	CM600	—	CM600(mod)	CM600	CM600	—	—
04	Heat exchanger	324	546	469	324	380	408	577	672
	Bowman part no.	CB100	CB120	FH400	CB100	CB120	CB140	FH400	GH200
06	Manifold outlet with water connection (size)	92 (3")	92 (3")	175 (4")	168 (3")	269 (4")	218 (4")	269 (4")	230 (5")
07	Hose & connection kit (inlet size, mm)	164 (28)	164 (28)	229 (28)	107 (28)	164 (28)	185 (28)	235 (32) u	235 (32) u
08	Heat exchanger mount bracket	17	17	N/A	17	17	35	N/A	N/A
09	Hose clip kit	40	40	N/A	39	40	65	N/A	N/A
IND	Marinising kit using the above components	1837	1857	4178 u	1855	1876	1947	4386 u	4442 u

ADDITIONAL PARTS FOR TURBOCHARGED ENGINES									
21	Turbocharger heat shield	—	—	—	112	112	112	112	112
22	Charge air cooler	—	—	—	—	—	435	—	672
24+27+28	Air ducts and hoses, Manifold/turbo adapter and feed & drain pipes	—	—	—	133	134	268	234	327 u
15+17	Watercooled turbocharger with kit alterations	—	—	—	—	—	—	869	869

FLYWHEEL CONNECTIONS & HOUSING COVERS, AS REQUIRED									
18	for Borg Warner, Paragon, SternPowr & ZF 45A – 80	365	365	386	365	365	468 w	—	—
20	for P.R.M. (260 for 4B, 500/750 for others)	378	398	396	398	398	392 w	396 w	396 w
31	for P.R.M. (500/750 for 4 cyl, 1000 for 6 cyl)	384	427	396	427	427	392 w	396 w	396 w
32	for ZF 220 & 280	320 d	320 d	324 d	320 d	324 d	392 dw	392 dw	392 dw

OTHER COMPONENTS									
38	Front mounted brackets & front & rear mount rubbers	232	232	137 d	232	232	232	137 d	137 d
39	Air intake strainer	—	57	—	57	57	47	40	N/A
40	Manifold outlet with flex connection for dry exhaust	162	116	259	—	—	—	—	—

## NOTES

d brackets not included    u Part kit only    w parts are for SAE2 flywheel housing. If SAE3, use parts from #104

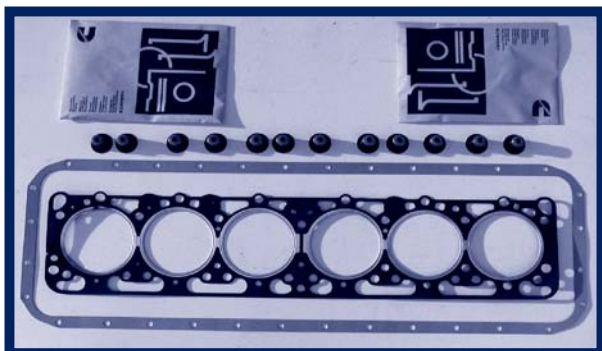
# Repair parts for Cummins diesel engines

	4B & 4BT		6B, 6BT & 6BTA			4B & 4BT		6B, 6BT & 6BTA	
	£O.E	£A.M	£O.E	£A.M		£O.E	£A.M	£O.E	£A.M
Head gasket	68	45	87	54	Big end bearing engine set	44	14	66	21
Rocker cover gasket set (4 or 6)	14	12	21	16	Intake valve	17	7	17	7
Cylinder head gasket set	145	99	156	125	Exhaust valve	17	8	17	8
Sump gasket set	23	10	32	16	Fresh water pump	173	110	173	110
Front crank seal	29	14	29	14	Fuel lift pump	118	—	118	—
Rear crank seal	64	30	64	30	Oil pump	230	74	230	74
Piston ring set per piston	43	18	43	18	Oil filter	8	7	8	7
Piston pin & rings	167	68	167	68	Fuel filter	9	8	9	8
Main & thrust bearing engine set	71	36	74	41	Thermostat	24	—	24	—

\*Engine number required with all parts orders to assist parts selection.

Starters, injectors, injection pumps, alternators and turbochargers repaired, exchanged or sold outright against part numbers of old unit.

Flywheel housing covers for 4B & 6B are for 16% bore housings and 17% bore for 6BTA-A & 6C.



# Diesel engines to petrol sterndrives

DIESELISE KIT TO USE EX-VEHICLE ENGINE	FORD XLD 1800	FORD XLD TI	PEUGEOT 1900TI	FORD FSD	FORD FSDT	FORD PUMA T	IZUSU 2.8 TURBO	CHEVROLET V-8 DIESEL
	(b)(f)		(f)	(f)	(c)	(d)(e)(g)		
to replace <b>VOLVO</b> 70 to 115 on 100 drive.	£1946	£2501	£2684	£2061	—	—	—	—
to replace <b>VOLVO</b> 110 to 130 on 200 to 270 drive.	£1961	£2505	£2740	£2061	£2566	£3878	£2239	—
to replace <b>VOLVO</b> 4 cylinder OHC on 250 to 290 drive.	£1981	£2718	£2740	£2094	£2500	£3913	£2269	—
to replace <b>VOLVO</b> 165 & 170 on 250 & 270 drive.	£2172	—	—	£2028	£2434	£4132	£2269	—
to replace <b>VOLVO</b> V-6 & V-8 on 250 to 290 drive.	£2137	—	—	£1939	£2431	£3666	—	£3470
to replace <b>MCR</b> 110 to 165 on MCR1 or Alpha drive.	£1962	—	—	£1740	£2214	£3443	—	—
to replace <b>MCR</b> 4-70 to 88 on MCR1 or Alpha drive.	£1848	—	—	£1772	£2246	£3481	—	—
to replace <b>MCR</b> V-6 & V-8 on Alpha or Bravo drive.	£1947	—	—	£1752	£2208	£3388	—	£3258
to replace <b>O.M.C.</b> most models.	£2062	—	—	£1840	£2314	£3543	—	—
to replace <b>B.M.W.</b> most models.	—	—	—	£2128	£2534	—	—	—

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 £195 from XLD 1800 prices
  - (c) FSDT kit is for turbo (electronic) engine. If turbocharging an originally naturally aspirated base engine £1326 extra.  
If intercooling to obtain 125HP from FSD Turbo (electronic) engine is required £1262 extra  
In most cases optional exhaust systems (through-transom or through-drive) are available
  - (d) On all Puma engines, a change of alternator and mount is needed
  - (e) Brand new Ford Puma engines with selected dieselise kit fitted and set for 145HP £3261 extra.
  - (f) Used, ex-vehicle base engines with selected dieselise kit fitted, XLD £1336, FSD £1432, Peugeot 1900TI £1977, extra, dynamometer tested.
  - (g) Controller & harness for common-rail Puma £1505.
- All U.K. built Pumas, FSDTs and some XLDTI and 1900TI require extensive work on electronic control system.  
This can be avoided by use of a mechanical fuel pump (price on application).

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

### SPECIALISED PARTS FOR D-I-Y DIESELISATION

EXHAUST PARTS		BOATBUILDER £	FLYWHEEL ADAPTATIONS		BOATBUILDER £
Exhaust injection	With 2" (51mm) vertical down outlet, for FSD	164	Flywheel ring for XLD with own Mercruiser/OMC coupling fitted		165
outlet, hi-rise	and with body pointing sideways for XLD	176	Flywheel ring for XLD to accept new Hy-drive damper plate		165
Transom-mount exhaust outlet and rubber flap for 3" hose		104	Flywheel ring for XLD with own J-type input shaft welded on		175
2" (51mm) to 3" (76mm) adaptor duct, straight		45	Flywheel weight plate for 6.2 Chevrolet diesel for Mercruiser or Volvo		267
2" (51mm) to 3" (76mm) adaptor duct, elbow		45	Flywheel adaptor, FSD to Mercruiser or OMC coupling, crankshaft fixing type		212
3" (76mm), 3½" (90mm) OR 4" (102mm) alum hose plug		7	Flywheel driveplate spacer blocks for FSD to drive plate (3)		87
Blanking plate for exhaust connection Volvo 200-280 or 290 drive.		52	Modify own BMW drive plate to fit FSD bolt pattern		45
<b>MISCELLANEOUS PARTS</b>			Flywheel drive plate, Volvo spline, 12", 3.8hp/100rpm "AG"		89
Relay and wiring diagram for connection of Mercruiser and OMC shift micro-switch		15	Flywheel drive plate spacers, set of 6, 10mm to 30mm long for Chevrolet diesel		60
T-piece and nipple, with ¼" or 5/16" (8mm) return connection		15	Spigot bush for XLD engine to accept Volvo primary shaft		21
<b>FRONT MOUNTINGS</b>			Spigot shaft extension for Volvo B20/B23 4 cylinder primary shaft		35
Single-point front mount bracket and rubber for FSD		126	<b>BELL HOUSING ADAPTATIONS</b>		
Pair of front mounting adaptors for FSD to OMC pre-Cobra		106	Engine backplate, XLD to Chevrolet, Volvo B20 or Volvo B23 pattern bell housings		234
<p>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.</p>			Flywheel housing adaptor, FSD to Volvo 4 cylinder bell housing		285
			Flywheel housing adaptor, FSD to Chevrolet pattern housing		206
			Modify own Volvo or BMW flywheel housing and weld to SAE7 housing or spacer ring		135
			SAE7 flywheel housings for most popular engines	SEE BACK COVER	
			Modify ex-vehicle aluminium flywheel housing to SAE7		395
			Flywheel housing spacer kit Chevrolet 6.2 diesel to Volvo V-8 bell housing		90
			Housing & shaft adaptor to fit old type T.M.P. gearbox from Seamaster, onto Ford XLD		385



## Adaptation & engineering

FLYWHEEL HOUSING SPACERS	THICKNESS	£
SAE 1, housing bore 20 $\frac{1}{8}$ " (511.2mm)	25mm	383
SAE 2, housing bore 17 $\frac{5}{8}$ " (447.7mm)	25mm	289
SAE 3, housing bore 16 $\frac{3}{8}$ " (409.6mm)	25mm	262
SAE 4, housing bore 14 $\frac{1}{2}$ " (362mm)	40mm & 51mm	154
SAE 5, housing bore 13 $\frac{3}{8}$ " (314.3mm)	16mm & 32mm	109
SAE 6, housing bore 10 $\frac{1}{2}$ " (266.7mm)	25mm	193
SAE 7, housing bore 8 $\frac{1}{4}$ " (209.55mm) (Borg Warner)	10mm, 16mm, 22mm, 28mm & 32mm	72

FLYWHEEL HOUSING ADAPTERS	THICKNESS	£
Borg Warner housing to IRM220A and Twin Disc MG502	22mm	144
Borg Warner housing to PRM Delta	15mm	57
Borg Warner housing to TMP	25mm	125
Borg Warner housing to hydraulic pump mounts	25mm	144

FLYWHEEL HOUSING REDUCERS	£	£
EFFECTIVE THICKNESS		EFFECTIVE THICKNESS
SAE 1 to SAE 2	25mm	383
SAE 1 to SAE 3	8mm	468
SAE 2 to SAE 3	25mm	289
SAE 3 to SAE 4	25mm	262

FLYWHEEL HOUSING INCREASE ADAPTORS	EFFECTIVE THICKNESS	£
SAE 3 to SAE 1	20mm	668

GEARBOX TO SHAFT COUPLING ADAPTORS AND SPACERS			£
GEARBOX FLANGE, SIZE & TYPE	TO SHAFT FLANGE SIZE & TYPE	THICKNESS	
4" Borg Warner	4" Borg Warner	10, 15, 20, 25, 30, 35 & 40mm	57
4" Borg Warner	5" Borg Warner	52.4mm	35
5" Borg Warner	5" Borg Warner	10, 15, 20, 25, 30, 35 & 40mm	65
5" Borg Warner	1350/1410 Hardy-Spicer	12mm	68
4 $\frac{3}{4}$ " IRM220A	5 $\frac{3}{4}$ " Borg Warner	55.4mm	98
5" Borg Warner	5 $\frac{3}{4}$ " PRM	55.4mm	99
5 $\frac{3}{4}$ " Borg Warner or Twin Disc	5 $\frac{3}{4}$ " Borg Warner or Twin Disc	10, 15, 20, 25, 30, 35 & 40mm	85
5 $\frac{3}{4}$ " PRM	5" Borg Warner	52mm or 25mm	50
7 $\frac{1}{4}$ " PRM	5 $\frac{3}{4}$ "	25mm	60
Alter adaptor or coupling spigot from male to female			30
Spigot to convert any female coupling to male			10
Many other adaptors available on request			

## 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"

#### SLOTTING

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

#### ALUMINIUM FOUNDRY WORK

We design, make patterns, cast and machine to your detailed requirements

#### 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

#### WELDING

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

#### HYDRAULIC PRESS

10 ton and 50 ton



# Marinising & power boosting parts for turbocharged engines

Part No.	BASIC ENGINE	FORD TRANSIT		NEW TRANSIT	FORD		IZUSU
		STD/ELEC	ELECTRONIC	PUMA	ESCORT	ESCORT	TROOPER
		FSD/FSDT	FSDT	2.0-2.4	1800T	1800TI	2.8
		FINAL POWER OUTPUT H.P.	125	120-125	75	92	99
TURBO BOOST PRESSURE lbs	12	16	12-16	15	15	15	
MAXIMUM R.P.M.	4000	4000	3900	4500	4500	3800	
#	24	44	26	14	46	48	

BASIC MARINISING COMPONENTS		£	£	£	£	£	£
02	Oil cooler, filter mounts & connections	134/-	—	—	—	—	—
03	Jabsco water pump, mount and drive	274	310	250	248	248	250
04	Heat exchanger, header tank	—	—	333	254	254	—
	Bowman part no.			EH280	EH200 v	EH200 v	—
01	Exhaust manifold	—	—	315	—	—	—
05	Manifold/header tank/heat exchanger	445	445	—	—	—	391
	Bowman part no.	FM242	FM242	—	—	—	I2277
06	Turbocharger outlet & water connection (size)	271 (3")	208 (3")	218 (3")	272 (3")	262 (3")	181 (3")
07	Hose & connection kit (inlet size mm)	143 (28)	184 (28)	215 (28)	114 (28)	165 (28)	71 (28)
08	Heat exchanger mount bracket	—	—	—	15	126	—
09	Hose clip kit	40	44	91	31	44	42
IND	Marinising kit using the above components	1307/1173	1191	1422	949	1225	935

OTHER COMPONENTS							
21	Turbocharger heat shield	81	81	75	129 z	53 z	81
22	Charge air cooler	—	438	315	—	315	—
	Bowman part no.		4052	EC140		EC140	—
23	Charge air cooler mount	—	63	—	—	54	—
24	Air ducts & hoses	150	104	269	—	202	38
25	Inlet manifold	—	—	—	—	—	—
26	Turbocharger Modification kit	—	734	734	—	—	—
27	Manifold to turbocharger adaptor	62	69	—	—	—	43
28	Turbocharger feed & drain pipes & hoses	31	61	93	—	—	33
29	Modification parts for injection pump and injectors with injection pipes and modification of pistons, as required	234/ g	70 g	— g	—	—	—
A	Total additional kit using the above components	558/324	1620	1486	129	624	195
I+A	Total parts needed for turbo base engine	—/1497	2811	2908 k	1078	1849	1130
16	Turbocharger, air cooled	838/ —	—	—	—	—	—
17	Alteration to 'IND' and 'A' to use turbo 15 or 16	120/ —	—	—	—	—	—
I+A+T	Total parts needed if using Part Nos. 15 or 16 (v)	2823/ —	—	—	—	—	—

FLYWHEEL CONNECTIONS, BELL HOUSING & REAR MOUNT BRACKETS, AS REQUIRED							
18	for Borg Warner, Paragon, SternPowr & ZF 45A – 80	321	321	425	298 r	316 r	553
20	for PRM 500/750 (PRM 260 on Transit, Escort & Peugeot)	317	317	467	—	—	—
31	for PRM 1000	—	—	—	—	—	—
32	for ZF 220 & 280	—	—	—	—	—	—

OTHER COMPONENTS							
38	Front mounted brackets & front & rear mount rubbers	205	205	169	158	158	143
39	Air intake strainer	47	39	57	69	49	39
35	Built in Bilge/Wash down pump, fitted to 03	—	—	—	—	—	—

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

### NOTES

- |   |  |
|---|--|
| <p>a Use exhauster/booster drive components, £143 if required.</p> <p>b Fit to flywheel £45.</p> <p>c If heavy flywheel £30 extra. If for 4:1 reduction £45 extra.</p> <p>d Mount bracket not included.</p> <p>e Requires modification of original truck sump and pick up £200 or requires change of water pump if originally an upright engine £69</p> <p>g Modify harness of electronic engine £350 extra, or change fuel pump P.O.A. Computer and harness for common-rail Puma £1505.</p> <p>j Includes replacement "Spin-on" oil filter assembly.</p> <p>k On ex-vehicle engines, replacement of alternator, mount &amp; drive belt also required</p> <p>l Remounts original truck oil cooler</p> <p>m May require use of components from fan hub or pulley modification.</p> | <p>n Includes alternator re-mountings parts.</p> <p>p Requires SAE 3 housing.</p> <p>q For 4" dia. aperture, price as # 104 (Cummins).</p> <p>r not for P100 starter</p> <p>t Pump and injectors require modification on non-turbo base.</p> <p>u Partial kit only.</p> <p>v requires vacuum pump blanking plate £51.</p> <p>w Includes intake manifold. Alternator may require moving.</p> <p>x If SAE 3 housing is already fitted, use parts from engines # 107 and # 100.</p> <p>y Not for cross-flow engines.</p> <p>z Jacket also encloses original exhaust manifold.</p> |
|---|--|

## & turbocharging parts for normally aspirated engines

Part No. #	PEUGEOT		FORD D SERIES 6-CYLINDER		FORD CARGO 6-CYL	PERKINS PHASER 4 CYLINDER NON X-FLOW    6 CYLINDER NON X-FLOW		PERKINS T6-354
	XUDT 1900 93 10 4300 43	XDT 2.5 105-120 15 4000 45	145 10 2500 77 e	180 15 2450 78 e	160 12 2600 91 e	100 12 2500 107 y	150 12 2500 100 y	145 10 2500 55
	£	£	£	£	£	£	£	£
02	—	91	226 j	226 j	138 l	—	—	289 j
03	250	239 m	251 a	251 a	394	419 q	419 q	212 a
04	254	—	—	657	—	—	—	—
	EH200	—	—	FH420	—	—	—	—
01	—	—	—	905	—	—	—	—
05	—	805 w	974	—	882	591	791	776
	—	PG210	FM660	—	FM662	PE390	PE1006	PE580
06	207 (3")	157 (3")	214 (3")	269 (4")	269 (4")	224 (4")	224 (4")	281 (4")
07	233	209	132 (28)	213 (28)	224 (28)	189 (28)	101 (28)	167 (28)
08	—	—	14	N/A	14	95	N/A	N/A
09	43	75	55	90	60	45	51	46
IND	987	1574	1906	2651 u	1981	1468	1586 u	1771 u
21	91	81	112	112	112	112	112	112
22	315	—	—	632	—	—	—	—
	EC140	—	—	2934-3	—	—	—	—
23	56	—	—	157	—	—	—	—
24	99	197	73	226	56	52	52	162
25	—	—	211	190	255	215 (Mod.)	215 (Mod.)	215 (Mod.)
26	—	—	—	225	—	—	—	—
27	—	45	165	—	184	190	190	190
28	—	69	47	53	56	53	53	49
29	—	—	—	— t	— t	—	—	—
A	561	392	608	1594	663	622	622	728 uv
I + A	1548	1966	2514	4245	2624	2090	2208	2499 u
16	—	—	629	626	629	—	—	629
17	—	—	82	82	20	—	—	81
I+A+T	—	—	3225	4953	3273	—	—	710 u
18	396 b	363	417 c	417 c	417 c	365 d p	437 d p	569 x
20	—	352	428 c	428 c	428 c	398 d p	398 d p	589 x
31	—	—	428 c	428 c	417 c	427 d p	427 d p	599 x
32	—	—	550 c	550 c	550 c	—	0.00 d p	—
38	313 n	193	228 n	228 n	347 n	252	252	252
39	42	43	57	40	69	69	69	57
35	—	—	139	139	139	—	—	—

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

#### 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.

#### 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.

#### 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.

#### OLD STYLE ORIGINAL PERKINS T6-354 AND HT6-354

See page 16

# Machined Castings, As Used In Lancing Marine Kits

## BELL HOUSINGS

ENGINE	B/W	ZF5M-15	FACED FOR PRM 120/150	260	500	750	1000	PRICES		MOUNTS	
								HOUSING	REAR	FRONT	
B.M.C. 1.5	Y**	Y**	Y	Y**				229	INC	144	
B.M.C. 1.8	Y**	Y**	Y	Y**				229	INC	144	
B.M.C. 2.2 2.5	Y		Y**	Y				222	INC	117	
BMC 3.8 5.7	Y			Y	Y			279	INC	112	
Chevrolet	Y							208	N/A	92	
Ford FSD & 2400 York	Y		Y	Y	A			222	INC	104	
Ford XLD	Y	Y	Y	Y**				199	INC	82	
Ford 2700 2720	Y							207	97	88	
Ford 2700 2720				Y	Y	Y		219	97	88	
Ford 2700 heavy flywheel	Y							239	97	88	
Ford 2700 heavy flywheel, thick face					Y	Y		264	97	88	
Ford 2700 2720	TO SAE 3							234	97	88	
Gardner	Y			Y	Y	Y		441	165	165	
Gardner	TO SAE 2/3							441	165	165	
Izusu 2.8	Y							448	N/A	N/A	
Land Rover	Y		Y**	Y				236	INC	N/A	
Mercedes 180	Y	Y	Y					204	INC	N/A	
Mercedes 190 220 240 300	Y		Y	Y				219	INC	124	
Mercedes 352 auto or ind.	TO SAE 3							382	N/A	97	
New Holland Diesel	TO SAE 3							257	INC	124	
Perkins 4-108	Y	Y	Y					345	INC	88	
Perkins 4-203 4-236 6-354	Y							477	INC	106	
Perkins 4-236 6-354 2-PCE	Y			Y	Y			499	INC	106	
Peugeot XD2 TO 5	Y		Y	Y**				269	INC	92	
Peugeot XUD/205	Y	Y	Y					279	INC	180*	
Rover V-8	Y							226	N/A	N/A	
Rover Montego & Maestro	Y**	Y	Y					291	INC	114*	

\* ALSO RE-MOUNTS ALTERNATOR \*\*£52 extra A requires adaptor Any non-listed engine; Cut, weld and re-face existing automotive aluminium bell housing £395

## INJECTION OUTLETS

	£
FM160 PE180 MB180 MB220 VW150 FM180 FM200 BL180 BL250	48*
FM240 MB300 PG210	49*
FM440 450 452 660 662	56
PE390 PE580 GM370 GM550	56
MB380 MB570 BL380 BL570	58
FM420 422 620 622	62
Volvo D70, Turbo-sub, FM402, FM602, 45° down-angle	87
Gardner 6LX 6LXB	189
Watercooled Turbo, 4" outlet	242
Aircooled Turbo, 4" outlet	269
*45 Degree down-angle also available, similar fitments,	53

## OTHER MOUNTING BRACKETS

	£
Ford 2700 LH incl. alt mount	73
Ford 2700 RH	44
Cummins B series, pair, front	131
<b>MISCELLANEOUS ITEMS</b>	
Ford 180 cross-over duct	95
Ford 180 Turbo to charge cooler duct	102
51mm to 76mm offset or elbow air duct	45
Thermostat housing cover, Ford Single	42
Thermostat housing cover, Ford Dual	61
XLD Vacuum pump aperture cover	47
XLD Intake manifold	160

## V.A.T. extra on all prices

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Quantity Terms	Quantity terms are available except where prices are stated as 'Nett' or ZZ.
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