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Owners manual PAGURO 6000









We thank you for the confidence you have shown in us, by purchasing the **PAGURO** for fitting in your boat.

The target of our design, to achieve a diesel unit with the power usually supplied in a small flat, in a compact size and light weight, is completely reached. So there is not the need to waste a large room in your boat, and even if the chosen place is away from the centerline of the boat, the reduced weight of the **PAGURO** will not influence the stability.

TECHNICAL SPECIFICATION AND PERFORMANCES

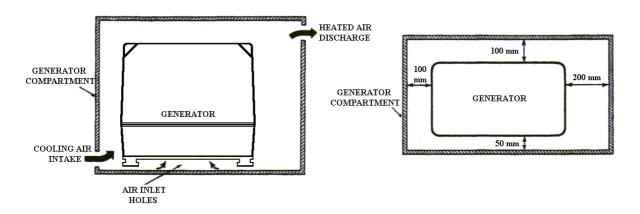
		PAGURO 6000	
Diesel engine maker		Lombardini Marine - Italy	
Engine type / cylinders n.		LDW 502 / 2 cyl.	
Machanical continuous navyer	50 cyc.	6.5 KW	
Mechanical continuous power	60 cyc.	7.5 KW	
Continuous speed	50 cyc.	3000 rpm	
Continuous speed	60 cyc.	3600 rpm	
Specific fuel consumption		0.35 lt/KW/h	
Cooling system		Fresh water with heat exchanger	
Cooling pump		Johnson system self-priming	
		directly driven, without belt	
Starting and shut-off system		12 V electrical starter remote controlled	
Generator maker		V.T.E Italy	
Generator type		Synchronus, brushless, AC	
Generator type		watercooled generator	
Water cooling system		Through stainless steel AISI 316 L	
water cooming system	1	heat exchanger jacket	
Electrical continuous power	50 cyc.	6 KVA – 5 KW	
_	60 cyc.	6.5 KVA – 5.5 KW	
Pick current for 2 sec. (230V)	1	70 A	
Voltage	50 cyc.	Single phase AC 230 V	
<u> </u>	60 cyc.	Single phase AC 115 V	
Auxiliary voltage for starting batt	tery	12 V – 8 A	
		fitted with hour meter, load indicator, autom.	
Remote control		shut off device in case of low oil pressure	
		and water over temp., starting motor self	
		disengagement, 10 m cable and socket	
Noise level		52 dB(A)	
Weight (soundproof hood included)		130 Kg.	
Engine serial Number			



WHERE TO FIT YOUR PAGURO

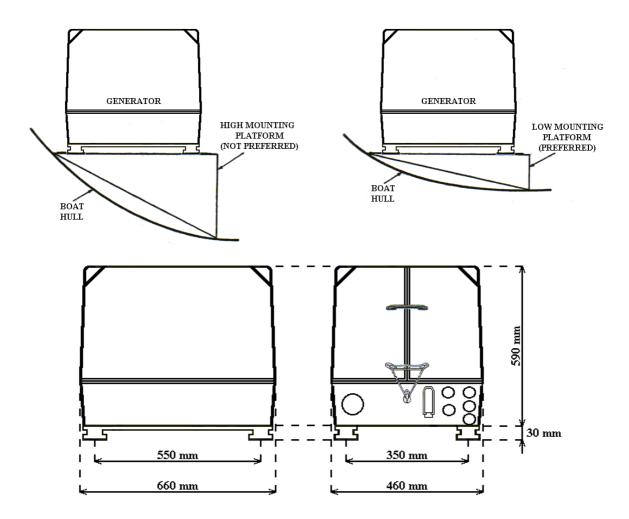
For a correct air replacement

Around the **PAGURO** have at least the shown tolerance; of course the ambient have to be naturally vented with more then one external connection.



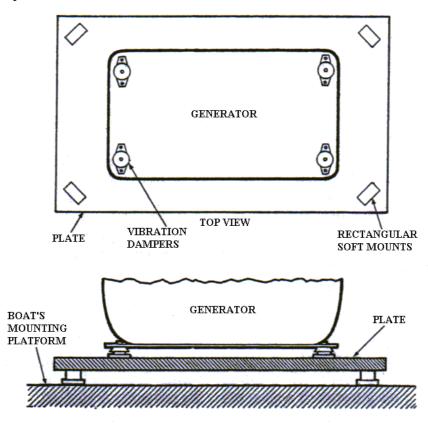
For fixing the PAGURO on board

A metallic, wooden or fiberglass structure have to be achieved. It must be as small as possible to avoid the generation of vibrations and must keep the unit horizontally.



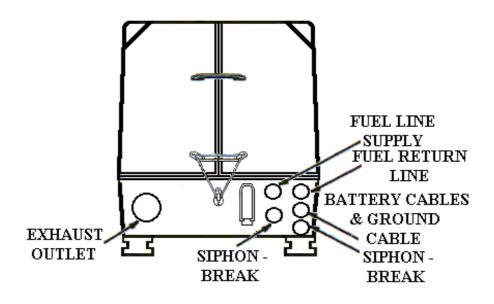


If the vibration-dampening mounts furnished with the generator are not adequate to muffle vibration or resonance in an installation where the mounting surface is not ideal, then adding a plate between the generator and the boat's mounting platform is a possible solution. This will also improve the sound insulation. For this plate, use 3 cm thick wood that weighs 10-15 Kg, and soft mounts that are rectangular. Position these mounts so they are on the diagonal and not aligned with the generator's mounts (see illustration). The generator's mounts may be turned in any direction. Mount the plate to the boat's platform, then mount the generator to the plate

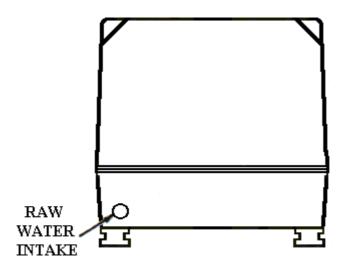


GENERATOR MOUNTING

EXTERNAL CONNECTIONS





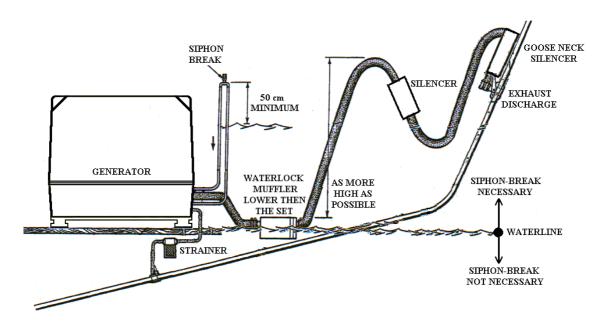


Note: The internal diameter of the pipes have to be respected to avoid untightening and leakage, but the external diameter is important too, because the correct size avoids a noise way-out from the sound-proof capsule.

Exhaust line (on request)

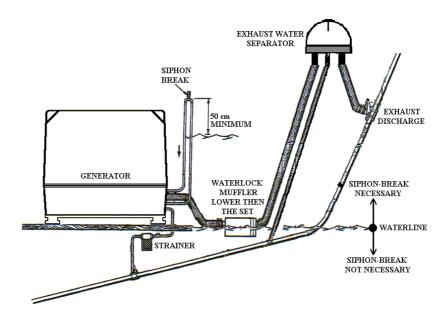
STANDARD SYSTEM: the best dumping result is obtained fitting the 3 typical "Vetus" exhaust mufflers:

the first as water lock avoids the risk of water return into the engine and dumps 50% of noise so it must be installed; the second reduces a further 20% noise and must be fitted with a gradient towards the out let in order to avoid water return; the third dumps a further 10% and avoids the risk of external seawater due to waves.

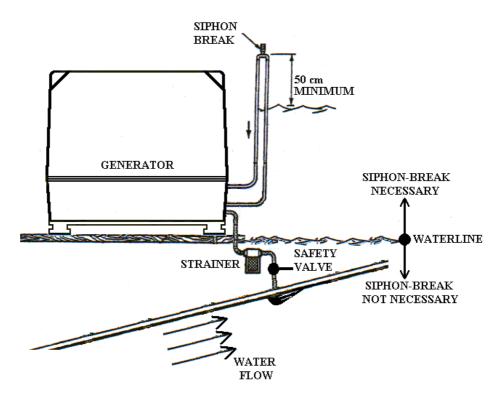


IMPROVED SYSTEM: a further improvement in the noise dampening is achieved fitting instead of the third muffler the water separator. The cooling water is separately throw from a separate hole flowing smoothly, avoiding the noise produced by the water coming alternatively spread from the exhaust pipe.





Cooling water intake (on request)

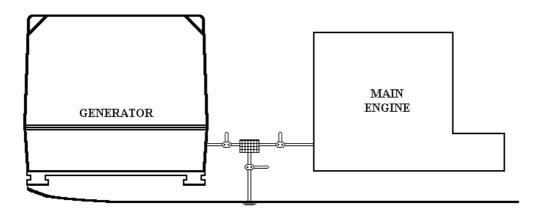


Note 1: The unit can be installed completely below the sea level; in this case the safety cooling vacuum valve has to be fitted out of the capsule and connected with separate pipes to the delivery of cooling pump.

Note 2: In case the hole in the hull for the water intake is undesired, the water line can be connected in parallel with the water intake of the main engine. In this case a couple of locking valves are necessary, because a failure of the main engine pump can influence the cooling of the set and voiceovers.



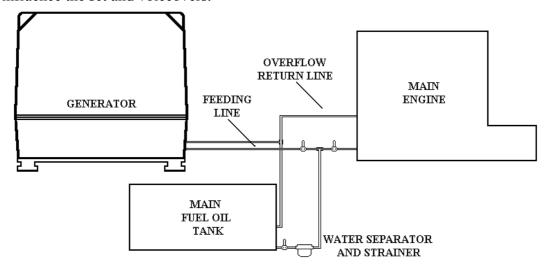
Note 3: In case the hole in the hull for the water intake is undesired, the water line can be connected in parallel with the water intake of the main engine. In this case a couple of locking valves are necessary, because a failure of the main engine pump can influence the cooling of the set and voiceovers.



Fuel oil line

It is usually employed the main fuel tank of the boat: the feeding pump driven by the engine assure a suction from a maximal height of 1 m, no length limits.

A separate line coming from the tank avoids air bubbles troubles, but in several cases the fuel can be taken from the pipe of the main engine: a couple of locking valve are necessary, because a failure in the non-return valve of the feeding pump of the main engine can influence the set and voiceovers.



Note 1: The injection pump of the **PAGURO** is self-bleeding, it means that in case the engine shut-off for lack of fuel, after fuel tank filling up there is no need of disconnecting the pipes for bleeding, because this operation is simply obtained acting by hand on the lever of the feeding pump.

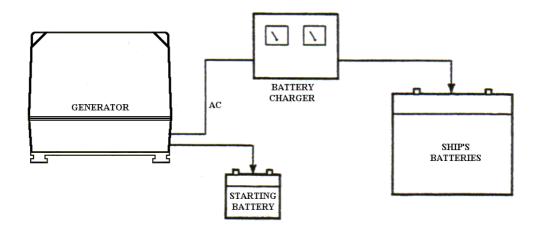
Note 2: Even if a small fuel filter is contained in the capsule, an external strainer and water separator is suggested to delay the replacement time.



Starting battery connection

The **PAGURO** is negative grounded, and can be connected to the main board batteries 12 V or to a separate small battery 12 V of about 90 Ah; in this second case its internal charging device takes care of feeding the battery with 8 A

Note: In case of connection to the main board batteries the 8 A are available as well, but are irrelevant for charging them: a static high power battery charger fed by the 230 V (115 V) of the set must be installed on board (on request).



Remote control (supplied)

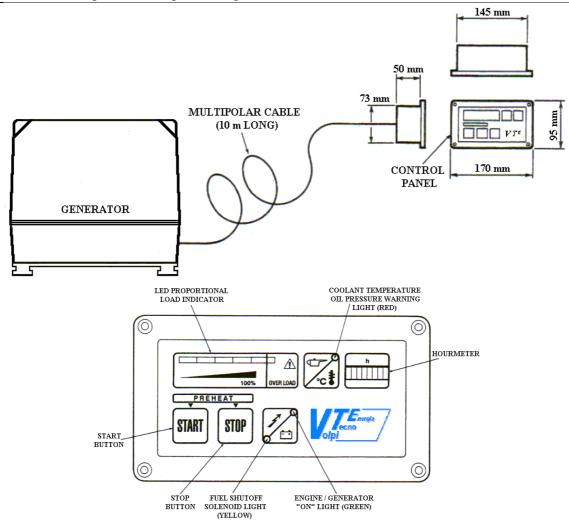
It allows the user to START and STOP the unit, verify if there is a cooling water or oil pressure failure, (in that case the engine shut-off automatically and the RED LED is lighted) and the power supplied control.

For preheating keep pushed contemporaneously the START and STOP buttons for about 10 sec.. The GREEN LED energized means that the preheating is in progress. For starting release the 2 pushed buttons, repushing the START only.

- Note 1: The load indicator is designed to avoid overloading of the unit through feeding too many electrical loads; it begins to show the load after the first half power supplied and has to be considered normal when the bar is GREEN. The last RED LED lighted means an overcharge: switch-off the exceeding load to return at normal conditions.
- Note 2: Do not forget the starter knob switched ON and the engine not running due to aborted starting attempt (YELLOW LED flashing), the STOP button should be pushed because on the contrary the engine shut-off valve remains energized and takes useless power from the starting battery.
- Note 3: If the YELLOW LED remains flashing when the set is running normally, it means that the internal battery charger protection has tripped, so the starting battery is no longer connected to it. In that condition the automatic protection shut-off system is not operative, so **do not operate the set with the YELLOW light flashing.**Reset the device by pushing the button located on the side of the GREY box fitted on the set. The set can normally operate when the YELLOW flashing LED is OFF and the GREEN on the opposite corner is ON.



Note 4: If for operator's mistake the starting knob is pushed whilst the engine is already running, an electrical safety device avoids the gears re-engagement, protecting the starting motor and preventing failures.



For passing trough small holes the remote control panel cable, the disconnection must be made panel side, opening the back cover, and not plug side, that is welded.

Main power 230 V (115 V)

As the most of the boats have installed 230 V (115 V) feeding line from the shore, it has to be absolutely avoided that the main and the generator remain contemporaneously connected to the boat plant.

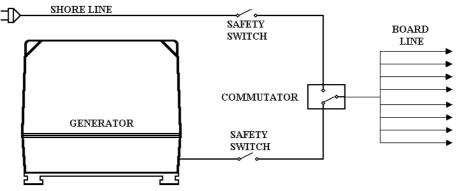
A manual safety commutator (on request), or an automatic safety commutator (on request) has to be provided.

Note: Both the lines or at least the generator line only, have to be protected with a magneto thermic safety switch, fitted on the main board panel.

For your **PAGURO** choose a:

	PAGURO 6000
If connected at:	Bipolar:
230V 50Hz	23A
115V 60Hz	55A





WHAT CHECKING BEFORE FIRST STARTING

- That the lubricating oil level in the engine reaches the upper line on the deep stick.
- That the valves of the following feeding pipes are properly open:
 - cooling sea water;
 - fuel oil suction:
 - fuel oil overflow return.
- That the main A.C. safety switch is SHUT-OFF.
- That the commutator GENERATOR / SHORE LINE is fitted in GENERATOR mode.

AFTER FIRST STARTING CHECK THAT

- Inside the capsule there is no leakage from the connections of the several pipes.
- The cooling water is flowing properly from the exhaust outlet, outboard.

When everything is in order, close carefully the capsule and your **PAGURO** is ready for supply trouble less energy.

FAILURES

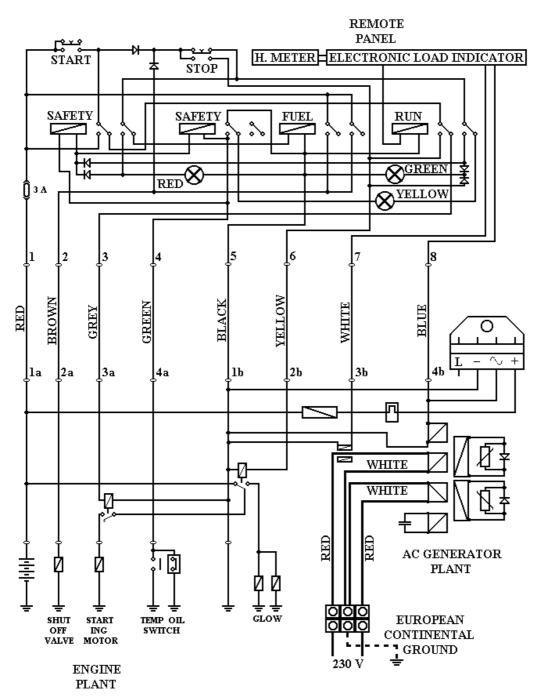
Each unit is carefully tested in our factory and the performances are verified; even so a readjustment can be sometime necessary according to the following suggestions.

PROBLEMS CAUSES REMEDIES 1. Check rpm and set at the nominal value of 3100 rpm 1. Low engine speed without load (3700 for 60 cycles) 2. Check and replace 2. Faulty capacitor Alternator excitation failure 3. Check that winding resistance as follows: - STATOR 0.50Ω 3. Faulty windings - ROTOR 3.51Ω - EXCITATION 2.35Ω 1. Engine speed too high 1. Check and adjust rpm High no-load voltage(over 240 2. Capacitor with too high 2. Check and replace capacity Low no-load voltage (under 1. Engine speed too low 1. Check and adjust rpm 230 V) 2. Faulty rotating diodes 2. Check and replace



PROBLEMS	CAUSES	REMEDIES
Low no-load voltage (under	3. Beak down in windings	3. Check windings resistance as above
230 V)	4. Capacitor with low capacity	4. Check and replace
	1. Low loaded engine speed	1. Dirty fuel filter
Proper no-load but low under	2. Overload	2. Check the load indicator
load voltage	3. Rotating diodes short circuited	3. Check and replace
	1. Loose contacts	1. Check connections
Unstable voltage	2. Uneven rotation	2. Check for uniform rotation speed (dirty fuel filter)
Noisy ganarator	1. Broken bearings	1. Replace
Noisy generator	2. Loose coupling	2. Check and repair

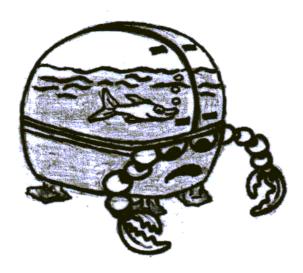
PAGURO 6000 / 9000 ELECTRICAL PLANT





WARNING

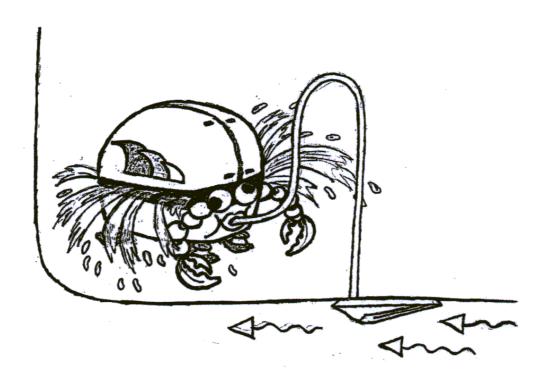
A great marine sets number of any type and manufacture, after first installation on board are flooded by sea water causing severe damages to the unit with high replacement or repairing costs, improperly claimed in warranty but gently refused, because it always depends from a critical installation, made compromising some physical rules.



We draw your attention on the most common mistakes to be avoided.

1st MISTAKE

- Sea water intake oriented towards sailing direction, causing a dynamical pressure that, when the generator is not running, let flow sea water through the cooling pump, reaching the exhaust pipe and consequently the engine exhaust valve, flooding the cylinder and the oil sump.

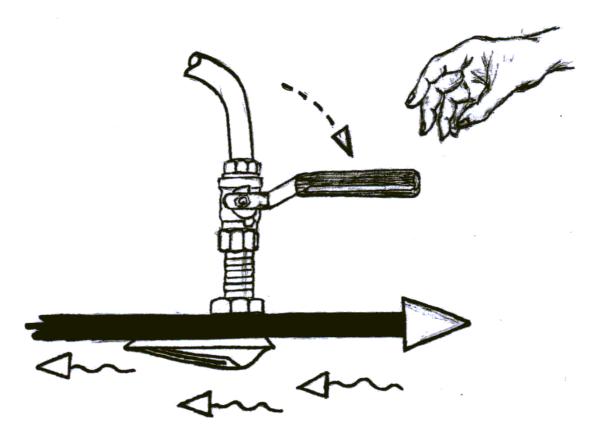




- On a high speed motorboat, a neutral flush hull mounted water intake can cause as well dynamical pressure due to the hull gradient compared the sea surface, or the decreased water line level before reaching the proper trim.



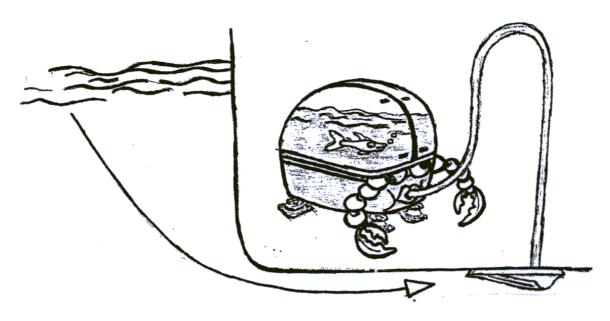
- For avoiding the risk, the water intake entrance must be fitted facing the rear position and even so, in critical sailing conditions the internal valve must be closed when the generating set is not in operation.



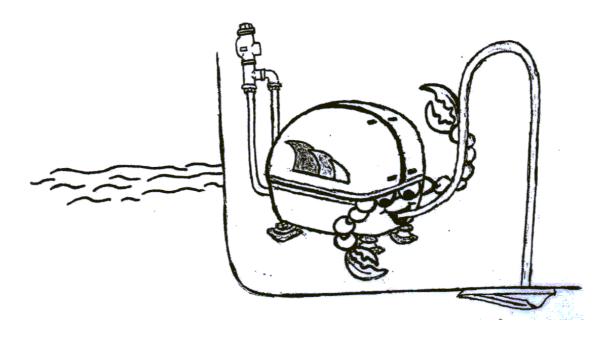


2nd MISTAKE

- Installation below the sea level without a proper cooling pipe goose neck and vacuum siphon break valve.



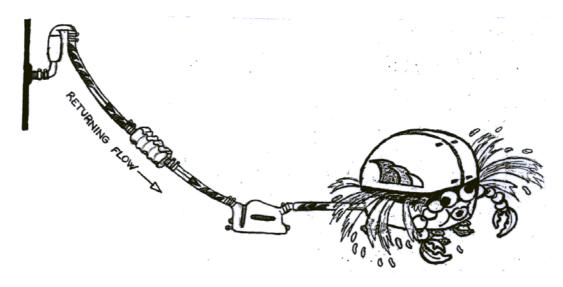
- If the set installation surface is just a little below the external sea water level but can be guessed that while sailing the difference is further increased, must be foreseen an external goose neck pipe with siphon break valve, on the contrary drop by drop an internal leakage through the pump clearance, fills the exhaust pipe with the same above explained result. For relevant level difference the leakage occurs when the boat is not sailing too.
- The vacuum siphonbreak valve must be fitted out of the hood, on a prolonged pipe, as more high as possible and in any case above the sea level, in connection to a cooling pipe at the engine pump delivery side, namely in pressure zone. On the several sets the pipe to be prolonged can be different, but each one chosen at the pump delivery side, is suitable.



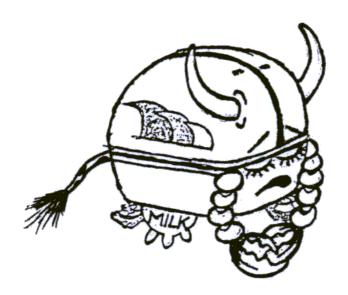


3rd MISTAKE

- An exhaust line trapping too much water for length excess or negative gradient course, that return back into the engine when the set is shut off.



- The first water lock muffler is designed for avoiding that risk, but if fitted not enough lower than the engine manifold either reversing the entrance with the outlet, or of too reduced capacity for the return water volume that has to contain, can be unable avoiding the problem.
- Particular care must be taken in designing the exhaust pipe course, preferring the alternatives that keep self draining towards outside as more pipe stroke as possible.
- In any case, to be sure of a correct and safety installation, especially during the first employment season, check often the lubrication oil integrity watching the engine steak level: a transparent yellow oil if new or a black color if old, mean no water entrance, but an emulsion similar to milk white/yellow not transparent or worst an increased level into the sump mean water flooding.





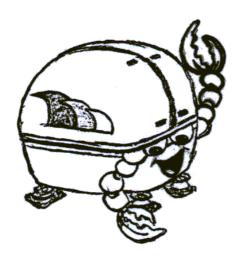
- Another water presence signal, becomes from starting difficulties as due to some roost on the exhaust valve, the compression does not reach the proper burning value.

Spraying some lubricating oil into the cylinder while insisting with the starter, very often the engine can be started. Better if the operation is made acting on the decompression device, for allowing some free engine revolution for better distributing the oil and adding the flywheel kinetic energy. When started the valve self cleans, but in some cases, of too long time water presence, also the piston rings are locked from roost, so the engine must be opened for repairing.

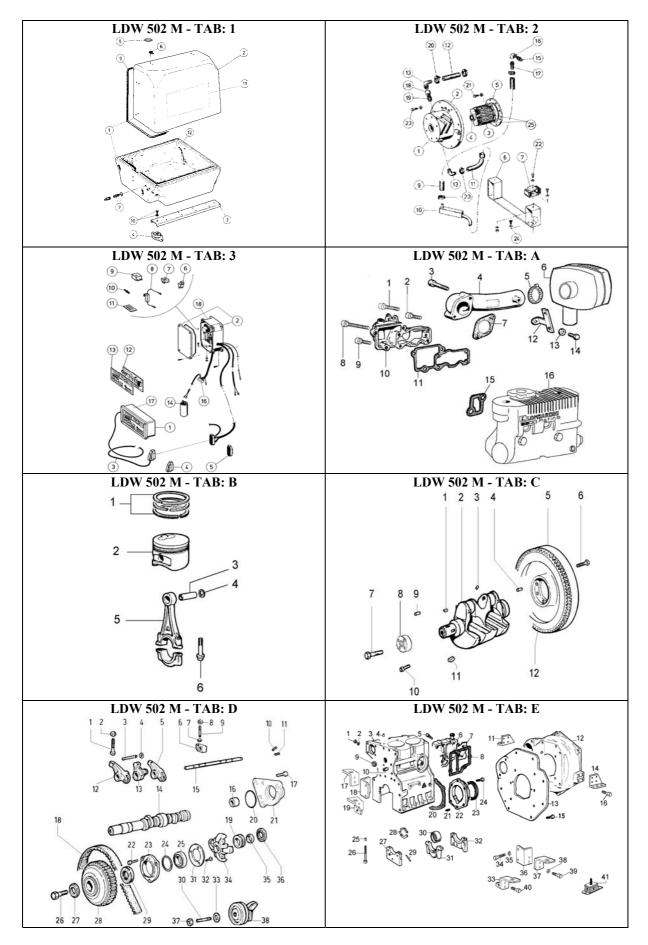
- In some cases the engine does not start for external reasons like lack of fuel, air bubbles, too flat battery. While insisting, the water pump deliver a certain quantity of water, that is not pushed out by the engine exhaust pressure, remaining trapped into the exhaust pipe even if correctly fitted. If that happens, drain the exhaust pipe when giving up the unsuccessful starting operation.
- When the installation is correctly planned and carried on, surveying the result during the first operative season, the generator on board give many troubles operative seasons, requiring lubricating oil and fuel filter replacement only, but there is another up keeping operation that prolong considerably the unit life. It consists in a "wintering" but useful in summer too if the set remains unemployed for more than two months. Due to temperature difference between night and day the water remaining into the exhaust pipe and muffler water lock causes condensation, that on the engine exhaust valve, produces roost. Spraying into the combustion chamber some lubricating oil, and disconnecting the exhaust pipe, moving the piston position by the handle or a flash starting attempt, avoids completely the roost risk for long time.

Consider that on the marine engines employed for the nautical generating sets, there are no critical connections between cooling water and fire zone, so in case of some gasket breakage there is water sprayed out of the engine, around it into the hood and never water entering into the piston or the sump zone.

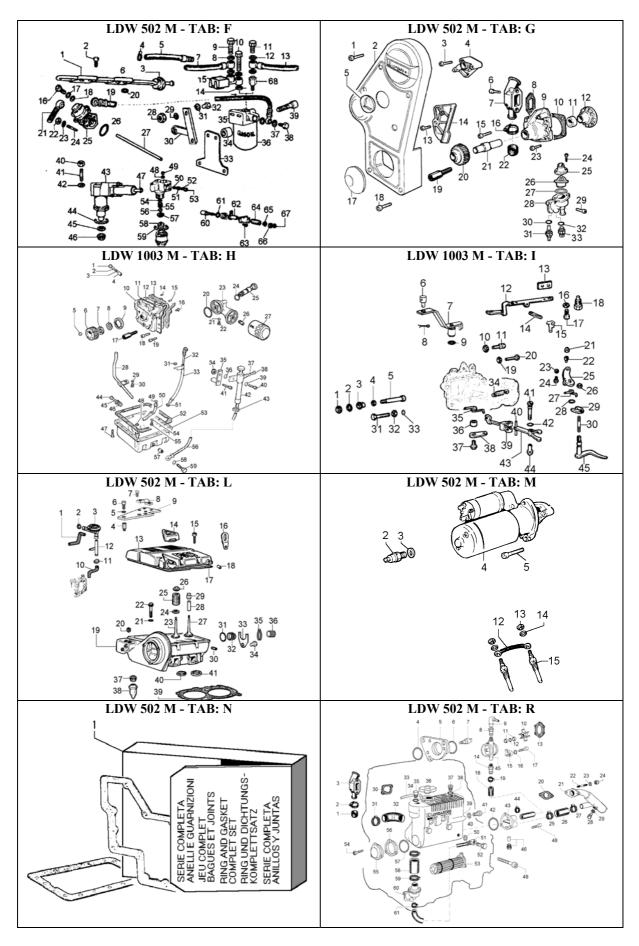
Our technical staff is in any case at customer's disposal for additional suggestions or solving out of standard cases for getting the complete satisfaction result, that can be always reached putting more attention on the plant, or adding special accessories like a dry exhaust pipe and similar.













Tab	Dog	Number	Description
1 a b	Pos 1	Number 6009	Description Complete soundshield
1	2	6055	Soundshield lid
1	3	6010	External frame 550mm
1	4	6011	External rubber mounts
1	5	4014	Closing o-ring
1	6	4015	Shield hook
1	7	6054	Fuel connection
1	9	6016	Soundshield gasket
1	10	6012	Bolt and wash
1	11	4069	Label
1	12	6064	Soundshield bottom
2	1	6005	Stator with cooling jacket
2	2	6006	Flange
2	3	6002	Rotor
2	4	6004	Ball bearing
2	5	6003	Flexing coupling
2	7	6017 6020	Internal frame Internal rubber mounts
2	9	6029	Water hose
2	10	6022	Oil cooler
2	11	6030	Water hose
2	12	6056	Water hose
2	13	6063	Fitting
2	14	6057	Gomito M/F
2	15	6058	Nipples 1/2" - 3/8"
2	16	6059	Gomito 1/2" F/F/fitting
2	17	6060	Fitting
2	18	6061	Fitting connection
2	19	6062	Nipples 1/2"
2	20	6031	Clamp
2	21	6090	Bolt washer
2	22	6091	Bolt washer
2	23	6092	Bolt flange 6x35 mm
2	23	6093	Bolt flange10x20 mm
2	23	6094	Bolt flange10x40 mm
2	24 25	6096 6049	Screw Diode
2	25	6050	Zenamic
3	1	4034	Remote control panel
3	2	6038	Electrical box
3	3	4047	10 m cable with connector
3	4	4037	8 poles male connector
3	5	4036	8 poles female connector
3	6	4040	Relè
3	7	4041	Graetz bridge
3	8	4044	Resistor
3	9	6052	Transformer
3	10	4042	Fuse holder
3	11	4043	Fuse (10pz)
3	12	4035	Printed board
3	13	6051	Label
3	14	4039	Capacitor
3	16		Connector
3	17	4048	Gray box
3			Safety switch
A			Screw M8x1,25x45
A			Screw M8x1,25x35
A			Screw TCEI M8x50 Air filter support
A		3630.152	**
A			Air cleaner
A		4501.081	
A			Screw M8x80
A			Screw M8x30
A			Inlet manifold
A			Inl. manifold joint
Α			See drawing F
Α			Washer d.8
Α			Bolt M8x16

Tab	Pos	Number	Description
Α	15		See drawing R
Α	16		See drawing R
В			Ring set +1,00
В	1	8211.142	Ring set +0,50
В	1	8211.141	Ring set std.
В			Piston set +1,00
В			Piston set +0,50
В	2	6501.427	Piston set std.
B	3	1261.099	Gudgeon pin
В	- 4	1526 172	Connecting rod
В		1770.101	
C		2280.119	
C			Crankshaft
C		9080.132	
C		8400.120	
С	5	9880.938	7" 1/2 flywheel with crown
С			Flywheel crown
С	6	1780.097	Bolt M10x30
С	6	1780.105	Bolt M10x35
С	7	9865.258	Screw M16x1,5 Sin
C	8	7090.012	Timing pulley
C	9	8430.004	Lock pin
C	10	9732.016	Screw M6x1x40
C	11	2280.145	Key (mm8)
С	12	2816.088	Crown gear
D	1	9850.088	Adj. screw
D	2	3240.008	Nut
D D		3240.151	Adj. screw
D	- 4	6045 110	Rocker arm assembly
D	5	15/11 126	Rocker arm
D			Rock. Arm shaft supp.
D		7625.130	
D	8	3240.033	Nut
D		6800.088	
D	10	8430.061	Pin
D			Plug diam.10
D			Rocker arm
D	13	1541.220	Inj. pump. rocker arm
D	14	1011.259	Camshaft
D	15	6045.086	Rocker arm shaft
D		3580.018	
D	17	9730.012	Screw M6x1x20
D	18	2440.343	Cog belt
D	19	3401.205	Control sleeve
D	20	2224 107	Rubber oil seal Water pump support
D	21	9730.197	Screw M6x1x16
D			Governor cover
D			Rubber oil seal
D			Ball bearing
D		9820.142	
D		7625.045	
D	28	7090.012	Contr. gear pulley
D	29	1213.303	Seal ring
D	30	6800.033	Stud
D	31	6275.116	Plate
D			Screw M6x1x16
D	33	7495.010	Washer
D	34	8805.048	Weight support
D	35	1585.085	Sleeve
D			Thrust bearing
D		3240.033	
D	38	4110.009	Jockey pulley
Е	1	8965.003	Plug Componicies
E E	2	1510 652	Copper joint
E	3	1510.653 1970.140	Downal Downal
E	4	17/0.140	DOWCI



Tab	Dos	Number	Description
Е			Description Screw M6x1x14
E	6	2610.056	Decanter cover
Е			See pos. 6
Е	8	4431.144	Gasket
Е		8990.022	
Е		8430.105	
Е			Engine mount
Е			Bell housing SAE 5
E	13	6370.560	Flange Engine mount
E			Bolt M8x1,25x14
E			Bolt M12x28
E			Front side eng. mount
Е			Side mount
Е			Engine mount
Е		4501.100	
Е	21	8400.108	Lock pin
Е		3790.079	
E		3790.078 1213.347	
E	23	9730.010	Screw M6x1x40
E		1970.140	
Е			Fixing supp. screw
Е	27		See pos. 3
Е	28	1257.081	Thrust washer std.
Е			Thrust washer +0,10
Е	28	1257.083	T hrust washer +0,20
Е		4400.054	
E			Support bearing -0,25 Support bearing -0,50
E	30	1611.184	Support bearing -0,30 Support bearing -std.
E	31		See nos 3
E			
Е	33	6429.348	Engine mount
Е			Bolt M12x28
Е			Washer diam.12
Е			Side mount
Е			Front side eng. Mount
E			Washer diam.12 Bolt M12x20
E	40	9730.037	Screw 8x25
Е			Silent block
F			Delivery pipe
F	2	9730.313	Fuel pipe fix.screw
F			Del. pipe joint
F		3630.148	
F			Bleeding pipe
F		9375.750	Bleeding pipe
F	9	4670.059	Copper gasket d.10
F			Union bolt
F			Union bolt
F			Union bolt M14
F	12	4670.061	Copper gasket diam.14
F		9375.878	
F	14	4670.061	Copper gasket diam.14
F			Electr-valve
F			Union bolt Copper gasket
F			Copper gasket Copper gasket
F		9375.944	
F			Ring oil seal 9,25x1,78
F	21	9375.909	Fuel pipe
F		3240.164	
F		7625.010	
F		6780.049	
F		1200.087	Feed pump
F		7200.168	
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G 14 3800.031 Flange G 15 9732.063 Screw M8x1,25x35				
G 15 9732.063 Screw M8x1,25x35				
G 16 3630.147 Clamp		15	9732.063	Screw M8x1,25x35
	G			



Tab	Pos	Number	Description
G		9000.130	
G			Screw M6x1x40
G	19		See drawing H
G			
G		9080.214	
G			Screw M8x1,25x20
G			Screw M8x1,25x20
G			Thermostat cover
G	26	9195.057	Thermostat
G		1200.091	
G			Thermostat assy
G			Screw M8x1,25x30
G	31	9195.077	Copper gasket d.14
G			Copper gasket
G			Thermostat
Н	1	9015.005	Plug
Н		4670.060	
Н		5625.008	
H		6495.045	
H	5	6975 202	See pos. C 11 Driving pulley
Н			Seal ring 35x50x6
Н	8		See pos.21
Н	9		See pos.21
Н	10	6605.096	Oil pump ass.y
Н			o-ring/rubber oil seal
Н	12		See pos. C 10
H		4580.176	
Н		8400.106 8400.108	
Н			Screw M6x1x16
Н			Hollowstud
Н			Screw M8x1,25x30
Н			Screw M8x1,25x20
Н			o-ring/rubber oil seal
H		4670.061 9040.012	
Н			Oil filter support
Н			o-ring/rubber oil seal
Н		7330.302	
Н	26	7265.021	Oil filter connect.
Н			Oil filter element
Н	28	9485.213	Oil return tube
Н		7645.006 1760.130	
H	31	7625.012	Washer
Н	32	1400.219	Oil dipstick
Н	33	9330.088	Dipstick tube
Н	34	3240.140	Nut
Н		8545.594	
Н		7565.048	
Н	37	4670.058	Copper gasket Bolt M8x12
H		7625.209	
Н			Bolt M8x16
Н			Screw M8x50
Н	42	6595.020	Filter oil pump
Н		3630.129	
Н		9040.024	
Н		4670.088	
H		4170.044 1760.130	Nut Screw M6x1x12
Н			Rubber oil seal
Н			Rubber oil seal 8,00
Н	50	9485.214	Scavenge oil pipe
Н	51	1200.034	Rubber oil seal
Н	52	4431.130	Gasket

Tab	Pos	Number	Description
Н		6645.550	
Н		7625.008	
Н	55	1760.130	Bolt M6x1x12
Н			Suction pipe
Н	57	3527.441	Grilled spacer
Н			Copper gasket 14x19x1,5
Н			Union bolt M14
I	1	3240.153	Nut
I	2	4670.062	Copper joint
I		4190.109	
I			Ring gasket Extra fuel device
I			Extra fuel device Extra fuel device
I			Hollowstud
I		5200.753	
I		5200.856	
I		2800.079	
I			Rubber oil seal
I	10	3240.008	Nut
I	11	9180.011	Wire end
I	12	1380.066	Connecting rod
I		6320.048	
I	14	5655.256	Device spring
I			Device spring
I		6370.331	
I		7626.037	
I	17	9/32.096	Screw M3x0,5x6
I			Screw M3x0,5x10
I		3240.008	
I	20	3203.077	Adjusting bolt
I		6000.049	
I		7626.017	
I			Bolt M5x0,8x8
I			External lever
I		3240.008	
I			Return spring
I			Rubber oil seal
I		6275.114	
I			Stud M6x7
I	31	1760.128	Adjusting bolt
I	32	3203.074	Nut
I	33	4670.062	Copper joint
I	34	5655.210	Control spring
I	34	5660.045	Control spring Return spring
I		1957.009	
I		1760.081	
I			Internal lever
I			See pos 43
I	40	6140.420	Journal
I	41	6110.101	Control lever pin
I	41	6110.107	Control lever pin
I			Rubber oil seal
I			Control lever
I			Control lever
I			See pos.43
I			Internal lever
L		5365.076	
L		3630.145	Clamp Pressure valve
L			Hollowstud
L		7565.004	
L			Bolt M6x12
L			
L		6370.285	
L		8490.114	
L			Drain pipe
L			Strip fixing



L 12 9599.165 Union pipe L 13 2125.273 Rocker arm cover L 14 9032.061 Oil filler cap L 15 9730.012 Screw M6x1x20 L 16 8545.190 Lifting brace L 17 4400.055 Gasket L 18 9080.132 Plug diam.6 L 18 9080.133 Plug diam.6 L 18 9080.133 Plug diam.8 L 19 9200.506 Cylinder head L 20 8990.047 Plug diam.18 L 21 7625.130 Washer L 22 9820.119 Special screw L 23 9685.105 Exhaust valve L 24 7625.185 Washer L 22 5755.005 Valve spring L 26 6410.017 Spring retainer L 27 9652.101 Intake valve L 28 4845.200 Valve guide +0,50 L 28 4845.200 Valve guide +0,50 L 28 4845.200 Valve guide std. L 31 1200.081 Rubber oil seal L 32 9065.007 Union L 33 5570.019 Retainer L 34 1770.127 Bolt M8x14 L 35 3630.147 Clamp L 36 9080.191 Plug L 37 4130.096 Nut L 38 6725.029 Precomb. Chamber L 39 4730.591 Head gasket 1,45 L 39 4730.591 Head gasket 1,55 L 40 8000.121 Intake v.seat L 41 8000.122 Exhausting v. seat M 2 6745.050 Pressure switch oil M 3 4670.060 Copper gasket M 4 5840.196 Start. Engine Bosh M 5 9730.044 Screw M10x1,5x25 M 12 2185.548 Connection wire M 13 3240.005 Nut N 14 7626.066 Washer M 15 2100.077 Glow plug R 2 3630.147 Clamp R 3	Tab	Pos	Number	Description
L 13 2125,273 Rocker arm cover L 14 9032.061 Oil filler cap L 15 9730.012 Screw M6x1x20 L 16 8545.190 Lifting brace L 17 4400.055 Gasket L 18 9080.132 Plug diam.6 L 18 9080.132 Plug diam.8 L 19 9200.506 Cylinder head L 20 8990.047 Plug diam.18 L 21 7625.130 Washer L 22 9820.119 Special screw L 23 9685.105 Exhaust valve L 22 4 7625.185 Washer L 22 5 5755.005 Valve spring L 24 7625.185 Washer L 25 5755.005 Valve spring L 26 6410.017 Spring retainer L 27 9652.101 Intake valve L 28 4845.220 Valve guide std. L 29 4535.015 Gasket L 30 9080.132 Plug d.6 L 31 1200.081 Rubber oil seal L 32 9065.007 Union L 33 5570.019 Retainer L 34 1770.127 Bolt M8x14 L 35 3630.147 Clamp L 36 9080.191 Plug L 37 4130.096 Nut L 38 6725.029 Precomb. Chamber L 39 4730.591 Head gasket 1,45 L 39 4730.592 Head gasket 1,65 L 39 4730.592 Head gasket 1,65 L 39 4730.593 Head gasket 1,65 L 40 8000.121 Intake v.seat M 2 6745.050 Pressure switch oil M 3 4670.060 Copper gasket M 4 5840.196 Start. Engine Bosh M 5 9730.044 Screw M10x1,5x25 M 12 2185.548 Connection wire M 13 3240.005 Nut M 14 7626.066 Washer M 5 9730.044 Screw M10x1,5x25 M 12 185.548 Connection wire M 13 3240.005 Nut M 14 7626.066 Washer M 5 9730.044 Screw M10x1,5x25 M 12 185.548 Connection wire M 13 3240.005 Nut M 14 7626.066 Washer M 5 9730.044 Screw M10x1,5x25 M 12 185.548 Connection wire M 13 3240.005 Nut M 14 7626.066 Washer M 15 100.077 Glow plug R 2 6745.050 Pressure switch oil R 1 9080.214 Plug R 2 6745.050 Pressure switch oil R 1 9080.214 Plug R 3	-	12	9599.165	Union pipe
L 15 9730.012 Screw M6x1x20 L 16 8545.190 Lifting brace L 17 4400.055 Gasket L 18 9080.132 Plug diam.6 L 18 9080.133 Plug diam.8 L 19 9200.506 Cylinder head L 20 8990.047 Plug diam.18 L 21 7625.130 Washer L 22 9820.119 Special screw L 23 9685.105 Exhaust valve L 24 7625.185 Washer L 25 5755.005 Valve spring L 26 6410.017 Spring retainer L 27 9652.101 Intake valve L 28 4845.200 Valve guide +0,50 L 28 4845.200 Valve guide +0,50 L 28 4845.200 Valve guide +0,50 L 28 4845.200 Valve guide std. L 29 4535.015 Gasket L 30 9080.132 Plug d.6 L 31 1200.081 Rubber oil seal L 32 9065.007 Union L 33 5570.019 Retainer L 34 1770.127 Bolt M8x14 L 35 3630.147 Clamp L 36 9080.191 Plug L 37 4130.096 Nut L 38 6725.029 Precomb. Chamber L 39 4730.591 Head gasket 1,45 L 39 4730.591 Head gasket 1,65 L 40 8000.121 Intake v.seat L 41 8000.122 Exhausting v. seat M 2 6745.050 Pressure switch oil M 3 4670.060 Copper gasket M 4 5840.196 Start. Engine Bosh M 5 9730.044 Screw M10x1,5x25 M 12 2185.548 Connection wire M 13 3240.005 Nut M 14 7626.066 Washer M 15 2100.077 Glow plug R 1 18205.072 Ring and gasket com R 1 9080.124 Plug R 2 185.548 Connection wire M 13 3240.005 Nut M 14 7626.066 Washer M 15 2100.077 Glow plug R 1 8205.072 Ring and gasket com R 1 9080.214 Plug R 2 185.548 Connection wire M 13 3240.005 Nut M 14 7626.066 Washer M 15 2100.077 Glow plug R 1 8150.028 Ring and gasket com R 1 9080.214 Plug R 2 63630.147 Clamp R 3	L	13	2125.273	Rocker arm cover
L				
L		15	9730.012	Screw M6x1x20
L				
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M 13 3240.005 Nut M 14 7626.066 Washer M 15 2100.077 Glow plug N 1 8205.072 Ring and gasket com R 1 9080.214 Plug R 2 3630.147 Clamp R 3		_		
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R 1 9080.214 Plug R 2 3630.147 Clamp R 3		15		
R 2 3630.147 Clamp R 3				
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R 4				
R 5	-			See drawing D
R 6 1200.233 Rubber oil seal R 7 4240.044 Water pump coupling R 8 5953.072 Nipple 1/2" - 3/4" R 9 7330.284 Union 90 (Johnson - Jota Jabsco) R 10 4200.193 Impeller (Johnson - Jota) R 10 4200.204 Impeller (Johnson - Jota) R 11 8150.028 Ring set (Johnson - Jota) R 11 8150.032 Ring set (Johnson - Jota) R 12				See drawing D
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R 10 4200.193 Impeller (Johnson - Jota) R 10 4200.204 Impeller (Jabsco) R 11 8150.028 Ring set (Johnson - Jota) R 11 8150.032 Ring set (Jabsco) R 12				
R 10 4200.204 Impeller (Jabsco) R 11 8150.028 Ring set (Johnson - Jota) R 11 8150.032 Ring set (Jabsco) R 12				
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R 11 8150.032 Ring set (Jabsco) R 12	-			
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R 14 7330.245 Union (Johnson - Jota-Jabsco) R 15 1557.098 Pump nut Johnson-Jabsco R 16 7555.030 Washer R 17 9730.220 Screw M8x20 R 18 9602.170 Union pipe R 19 3630.111 Clamp R 20 4501.098 Gasket R 21 9543.069 Exhaust gas tube (6023 V.T.E.) R 22 6780.142 Stud M8x18 R 23 7565.048 Washer			4775.498	Gasket (Johnson -Jota-Jabsco)
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R 22 6780.142 Stud M8x18 R 23 7565.048 Washer				
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	R	24		

Tab	Pos	Number	
R	25	3630.111	1
R	26		Union pipe
R	27	3630.111	
R	28	9040.012	
R	29		Copper gasket d.14
R	30		Exhaust gasket
R	31	3630.128	Clamp
R	32	9340.017	Water pipe
R	34	9580.045	Breather pipe
R	35	8965.004	
R	36		Radiator cap
R	37		Plug M8x16
R	38	4670.059	Copper gasket
R	39		Cooling radiator "Mota"
R	40	4670.061	Copper gasket d.14
R	41	9040.012	Plug
R	42	1200.265	O ring
R	43		See pos.39
R	44	3630.111	
R	45	6584.245	Water pump Johnson
R	45		Water pump Jabsco
R	46	9080.215	Zinc plug
R	48		Screw M6x16
R	49		Screw M8x100
R	50	4670.061	Copper gasket
R	51		Union pipe
R	52		Connection bolt
R	53		See pos.39
R	54	9730.211	Screw M6x16
R	55		See pos.39
R	56		See pos.39
R	57	1200.265	Rubber oil seal
R	58		Union pipe
R	59	3630.128	
R	60		See drawing G
R	61	3630.129	Clamp



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