

# THRUST IT TO THE MAX Hydraulic Tunnel Thruster

## Series 225HYD

### With Electronic Controller

### INSTALLATION OPERATION MAINTENANCE

Serial N°		 
Date of In	stallation :	 

### THIS MANUAL MUST BE KEPT ON BOARD AT ALL TIMES

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To ensure a proper installation, correct usage and long-lasting enjoyment of this equipment, please take time to read this manual thoroughly.

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Your thruster is a high quality technical product and should be treated as such. The employment of **qualified marine personnel**, with experience in bow thruster installation, is strongly advised. Where possible, the boat manufacturer's architects, design departments and/or shipyards should be consulted, prior to installation taking place. For any boat requiring official classification, bodies of approval should also be consulted at the earliest opportunity. In any case, all other bodies, governmental or otherwise, should be contacted to ensure conformity with legal regulations relating to the boat in question.

### Your thruster should be delivered with the following parts:

Hydraulic Motor &	Motor Support	Controller HYD	Drive Leg, Propeller
Coupling			Pin(s) & Coupling
Propellers (2)	Safety Stickers x 2	Manual	

### 1) GENERAL INSTALLATION GUIDLINES

The tunnel must be as low as possible and as far forward as possible.

The propellers must not protrude beyond the hull line.

The ideal position of the tunnel is such that there is at least the depth of one tunnel diameter from the water line to the top of the fitted tunnel.

Decreased performance of the SUPER POWER due to inadequate immersion depth can be compensated by fitting the tunnel as far forward as possible (increasing lever arm movement).

The SUPER POWER hydraulic thrusters can be fitted vertically, horizontally or tilting.

**IMPORTANT:** When using tunnels of different thickness (example: metallic tunnel) it is imperative that the area between the drive leg/gasket and the motor support, matches the thickness as indicated in the table on the drawing "Positioning & Measurements" at back of manual and that the motor support is stable. If you have less than 7 mm thickness, you will require an extra hard rubber gasket between the motor support and the tunnel.

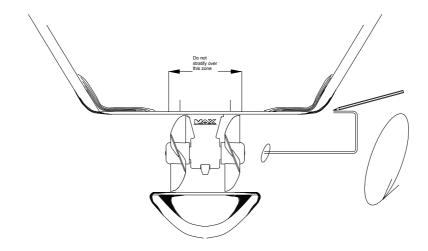
### 2) TUNNEL

When the final tunnel position is determined (and all dimensions have been checked), mark the centre of the tunnel's position and drill a  $\emptyset$  10 mm hole. Make up a metal compass from 8 mm rod.

Fit compass into the  $\emptyset$  10 mm holes and trace the form of the tunnel on to the hull (elliptical).

After cutting out the elliptic hole, disc the interior surface of the hull, by approx. 10 to 15 cm around the holes.

The outside surface of the tunnel is then ready to be fibre-glassed.



Fit the tunnel and mark the areas to be fibre-glassed. Sand these areas inside and out. In certain installations it is preferable to drill the position of the thruster support before the installation of the tunnel.

Refit the tunnel. Apply reinforced fibreglass filler to all areas, taking care that you fill the gap between hull and tunnel. Stratify with a minimum of 8 coats of material and ISOPHTALIQUE RESINE alternating with mat and roving.

In inaccessible areas (i.e. under the tunnel), it is possible to simply apply reinforced filler.

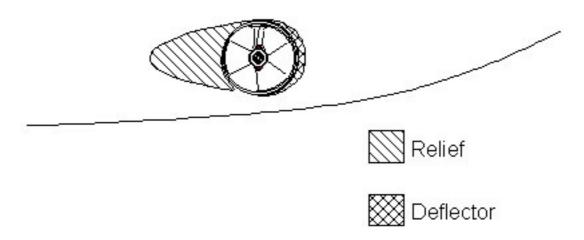
**CAUTION:** Do not fibre glass the area of the motor support.

It is recommended to lightly sand down the area where the motor support is fitted.

On the outside, when the ISOPHTALIQUE RESIN has set, finish with an application of resin and material, followed with an additional coat on the hull, in the tunnel area.

To optimise the flow of water while sailing, deflectors & a relief should be fashioned.

These can be made up with several coats of reinforced filler in order to obtain the required hydrodynamic lines.



Once all fibreglass work is complete, apply a coat of epoxy or gel-coat to waterproof the entire area.

### 3) PROPELLER DRIVE LEG & MOTOR SUPPORT

The leg's gasket and the motor's support can be used to mark up the drilling position, in some cases it might be easier, to mark out the position, and drill before the stratification of the tunnel.

Centre and trace the drilling positions for the leg and its support.

Fit the leg along with the gasket, in the tunnel.

Check general positioning of the propellers.

Small pieces of folded cardboard can be used to check the spacing between the propeller tips and the tunnel is even all round. Slight adjustment to align the leg in its tunnel may be necessary.

After checks, remove leg etc; remount the assembly, covering the gasket with an oil and salt water resistant jointing compound. After fitting, remove all excess compound.

The gasket must be between the leg and the tunnel, and not between the motor support and the tunnel.

Care must be taken at all times when fitting the leg into the motor support to ensure that the mating components are dirt free and covered with a light film of grease.

**IMPORTANT**: GRAPHITE GREASE MUST NOT BE USED.

Torque values: screw  $\emptyset$  10 mm = 40 Nm screw; tighten the two fixing screws alternately.

The installation of the composite drive leg is identical to that of bronze leg, except for the following points: The composite drive leg is lubricated for life.

The composite drive leg does not require an anode.

The composite drive leg MUST NOT BE DISMANTLED, even partially.

### 4) THE HYDRAULIC MOTOR AND ITS ADAPTER

Do not separate the motor from its adapter.

Insert the lower metal coupling on the greased leg shaft.

Fit the flexible coupling, then the motor and its adapter, tighten the screws ( $\varnothing$  10mm) to a torque of 40 Nm.

**IMPORTANT:** Using a screwdriver push the lower coupling up towards the motor, the contact between these parts must be without any slack or play.

Tighten locking screw for drive key to ensure coupling is kept in place.

### 5) PROPELLERS

Check the tightness of the oil drain screw (8 mm Allen Key) and the anode (a 10 mm key).

**IMPORTANT:** To prevent limestone deposits from forming (causing damage to the joints), we highly recommend applying silicone grease to the shaft and the joints before assembling the propellers.

Fit the propeller pins and propellers

**NOTE:** Position the propeller blades opposed and not in line with one another.

Make sure that the propellers turn freely. A certain amount of resistance from the motor is normal.

Tighten the 22 mm nuts on each propeller to 27 Nm.

Ensure correct protection of hands against the propellers blades.

### 6) PROTECTION GRILLS

With a shallow tunnel installation, we recommend that you protect the propellers by fitting horizontal protection grills. These grills will however modify thruster performance.

### 7) HYDRAULIC (general remarks)

A typical installation of the hydraulic power thruster requires the following elements:

- oil reservoir/tank
- hydraulic pump
- directional control valve
- hydraulic motor
- circuit piping
- oil cooler (depending on type of installation)

The **oil reservoir/tank** with return filter and suction strainer should be as close to the pump as possible and on charge. Meaning that the level of the oil should be above the pump, preferably with the oil tank above the water line.

For future maintenance, make sure that the return filter is easily accessible. An isolation valve can be fitted to the suction.

The **pump** can be driven by either an internal combustion engine (crankshaft pulley or gearbox PTO) or an electric motor. Depending on the speed and choice of drive, **but** should always comply with the rated pressure/flow of the thruster.

For an **internal combustion engine** with fixed or variable speed, 3 types of pumps can be used, depending on the unit to be fitted:

### **Direct PTO:**

Fixed flow pump (\*\*\*)

Variable displacement pump, depending on the model (\*\*) (\*)

Fixed flow pump with bypass (\*\*) (\*)

### PTO with clutch:

Fixed flow pump (\*\*) (\*)

Variable displacement pump depending on the model (\*\*) (\*)

Fixed flow pump with bypass (\*\*) (\*)

On a DC or AC **electric motor** the following types of pumps can be used:

### DC MOTOR:

Fixed flow pump (\*)

### AC MOTOR:

Fixed flow pump or other (\*\*) (\*)

(\*\*\*) always require oil cooler

(\*\*) require oil cooler when time of operation exceeds 15 minutes,

(\*) oil cooler not necessary

**Note:** The above choices also depend on capacity of the oil tank etc.

The **hydraulic directional control valve (DCV)** must be equipped with a pressure gauge and pressure relief valve and should preferably be placed as close as possible to the thruster unit.

The piping can be flexible or a mix of rigid and flexible type and should have crimp-connected fittings.

The piping should match interior diameters and the service pressure equal or above that which has been recommended.

The circuits must be as direct as possible and avoid any bends and joints.

The circuits must be clean and closed-off until final connection takes place.

The thruster hoses arriving at the thruster must be of the thermo-plastic non-conductive type.

The hydraulic motor drain line and the return T-line of the DCV should each go separately and directly, back into the top of the oil tank.

Use synthetic, mineral or vegetable hydraulic oil, to ISO standard 32 to 48.

### 8) HYDRAULIC SPECIFICATIONS

**SUPER POWER Series 225 HYD: Flow** = 33/35 litres/Min **Pressure** = 200/220 bars.

Detailed instructions and diagrams are delivered with each pack, specific to the installation chosen.

### 9) HYDRAULIC CUSTOM PACK.

Tailor made according to specifications.

**ELECTRO PUMP PACK:** 1 x Electro Pump 24 Volt

1 x Power Relay 1 x Fuse Holder 1 x Power Fuse

### HYDRAULIC CONTROL PACK (12 V / 24 V):

1 Directional Control Valve (Including pressure gauge & Pressure Relieve Valve)

1 Control Panel.

### **RESERVOIR PACK**

Oil Reservoir 12 / 18 / 40 litres including: Return Filter

**Suction Strainer** 

Oil Level Sight Gauge/ Thermometer

Filler Cap

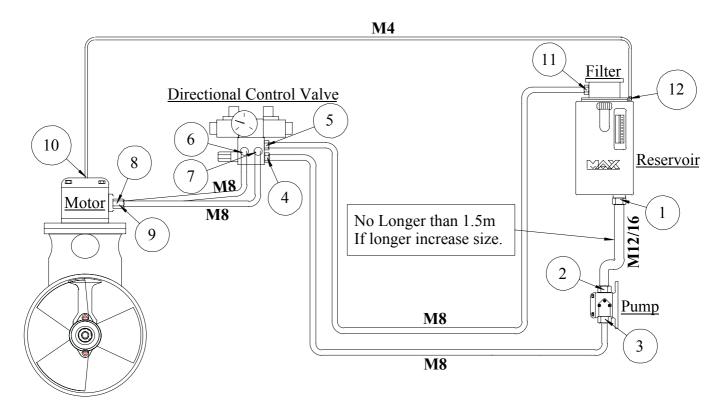
Motor Drain Connection

**INTERIOR DIAMETERS AND MODULES** of the piping between the hydraulic elements.

$$M4 = 1/4$$
"  $M5 = 5/16$ "  $M6 = 3/8$ "  $M8 = 1/2$ "  $M10 = 5/8$ "  $M12 = 3/4$ "  $M16 = 1$ "

**INTAKE DIAMETERS** of standard hydraulic elements MAX POWER.

$$1/2/11$$
 = Female BSP 3/4"  $3/6/7/8/9$  = Female BSP 1/2",  $4/5$  = Female BSP 3/8"  $10/12$  = Female BSP 1/4"



### 10) MAINTENANCE

In order to ensure peak performance from your SUPER POWER, the tunnel, the leg and the propellers must be kept clean.

**IMPORTANT:** In order to prevent chalky deposits, which cause damage to the oil seals, we recommend cleaning the shaft and the oil seals first, then applying a layer of silicon oil before assembling the propellers.

**ANNUAL BASIS:** CHANGE the anode (if necessary).

CHANGE drive leg oil, if classic (bronze) leg.

CHECK the oil and the hydraulic filtration circuit (only if necessary).

**EVERY 5 YEARS**: DRAIN hydraulic oil system and change the filter and refill.

THE MAX-POWER TEAM WISHES YOU SUCCESSFUL MANOEUVRING AND ENJOYABLE CRUISING.

IT IS IMPORTANT TO KEEP THIS MANUAL ON BOARD!

### **Installation Notes**

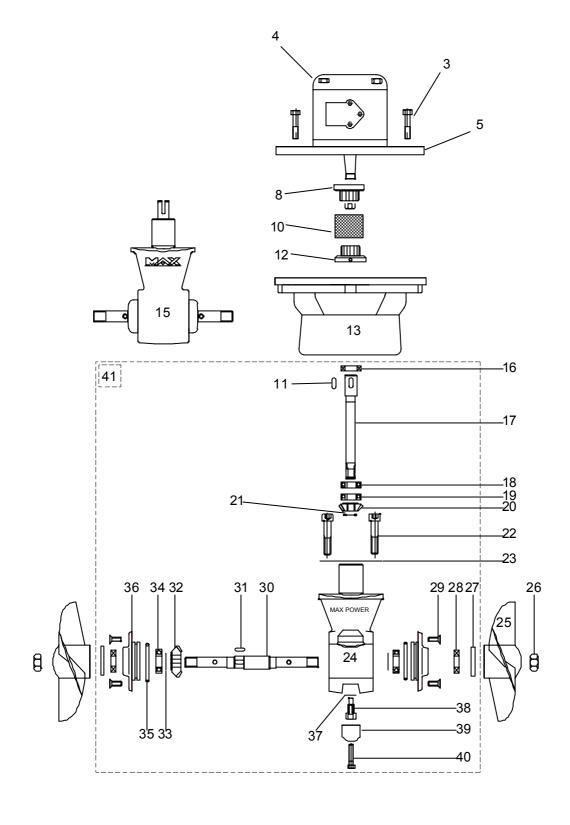
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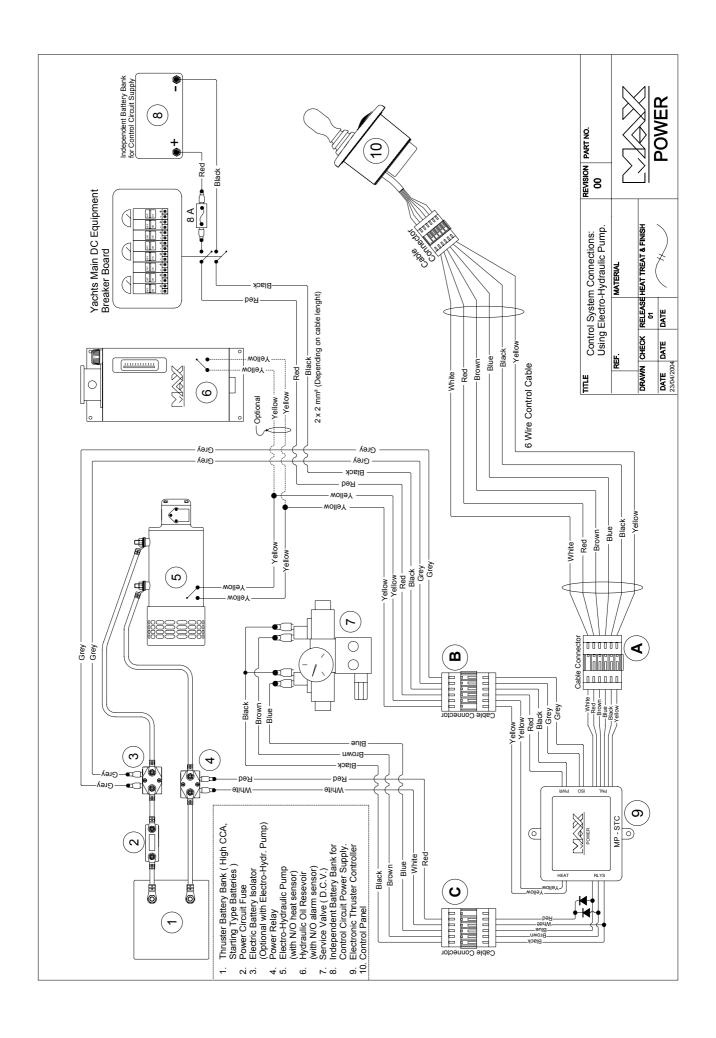
### SPARE PARTS LIST

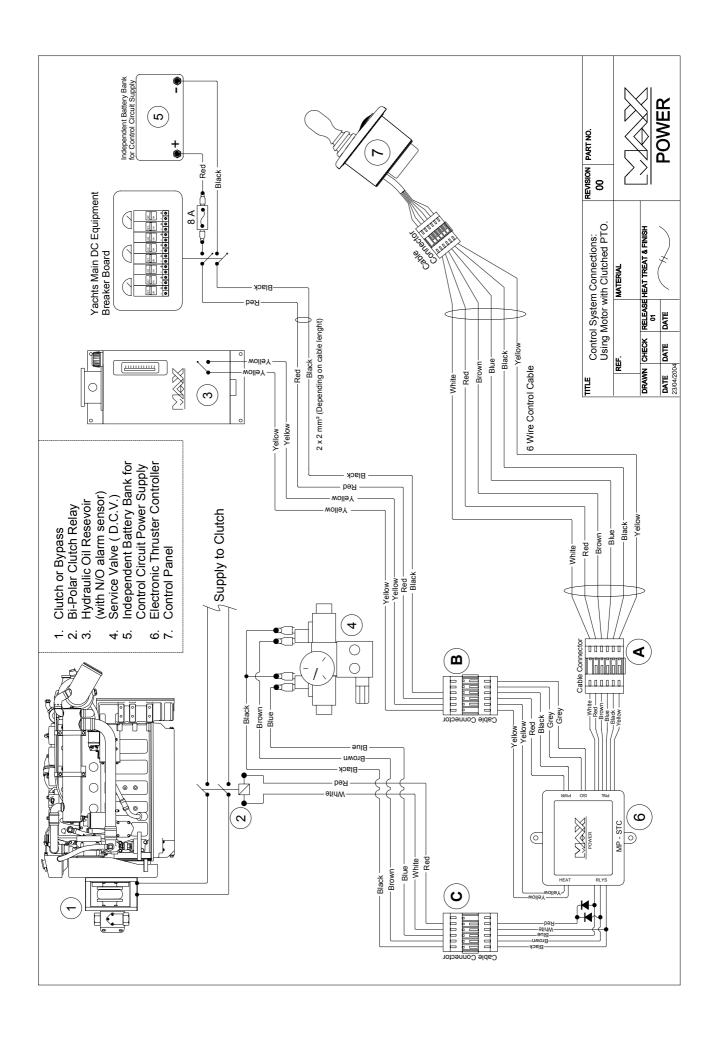
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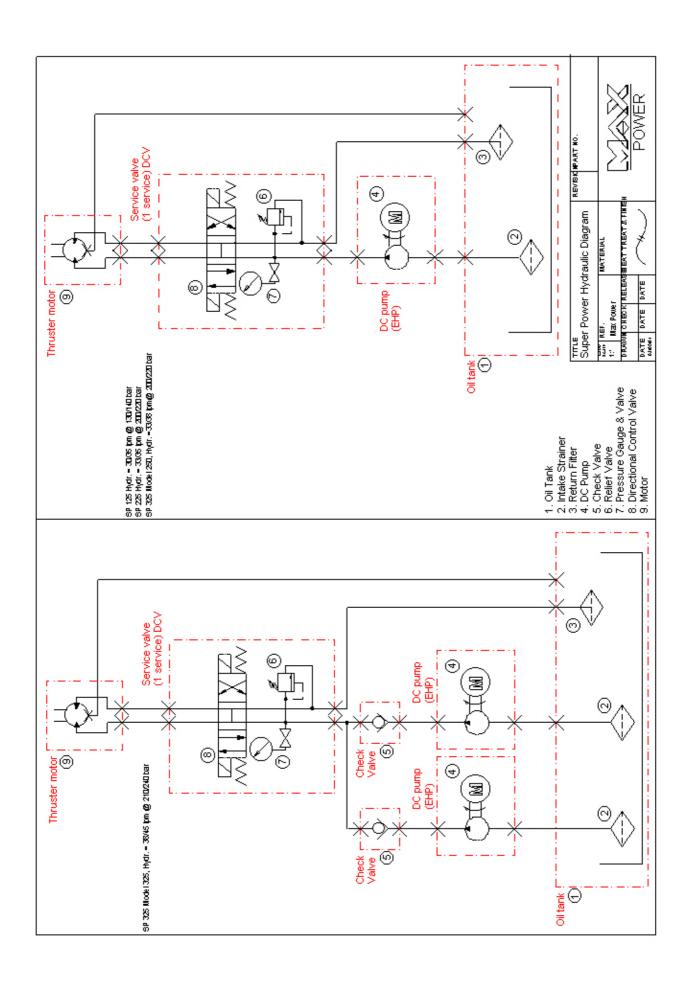
N°	DESCRIPTION	Composite Leg MPHYC1100	Classic Leg MPHY1100	REFERENCES
3	Motor fixing bolts	1	4	MPOP5240
4	Hydraulic motor	1	1	MPHY 6010
5	Adapter plate	1	1	MPHY 5012
8	Upper drive coupling hydraulic model	1	1	MP 205027
10	Rubber coupling	1	1	MP 205023
11	Drive key	1	1	MP11 5010
12	Lower drive coupling	1	1	MP 205025
13	Motor support	1	1	MP118019
15	Composite Drive Leg	1		MP11 8100
16	Drive shaft seal		1	MPOP 5540
17	Drive shaft		1	MPOP 5420
18	Upper bearing		1	MPOP 5430
19	Lower bearing		1	MPOP 5431
20	Upper gear		1	MPOP 5080
21	Clip		1	MP11 5030
22	Composite Fixing Bolts	2		MP114010
22	Fixing screw		2	MPOP 5490
23	Fibre joint leg / tunnel 1,5 mm	1	1	MPOP 2061
24	Leg housing		1	MPOP 5450
25	Propeller D 250	2	2	MPOP 5400
26	Propeller nut	2	2	MPOP 5410
27	Propeller drive pin	2	2	MPOP 5530
28	Oil seal		2	MPOP 5520
29	Screw Cap		4	MPOP 5480
30	Propeller drive shaft		1	MP13 5010
31	Shaft key		1	MPOP 5470
32	Lower drive gear		1	MPOP 5090
33	Shim		2	MPOP 5500
34	Propeller shaft bearing		2	MPOP 5440
35	O-ring		2	MPOP 5460
36	Сар		2	MPOP 5510
37	Copper washer		1	MPOP 2050
38	Drain plug		1	MPOP 5300
39	Anode		1	MPOP 5390
40	Anode screw		1	MPOP5311
41	Complete classic bronze drive leg		1	MP11 8030

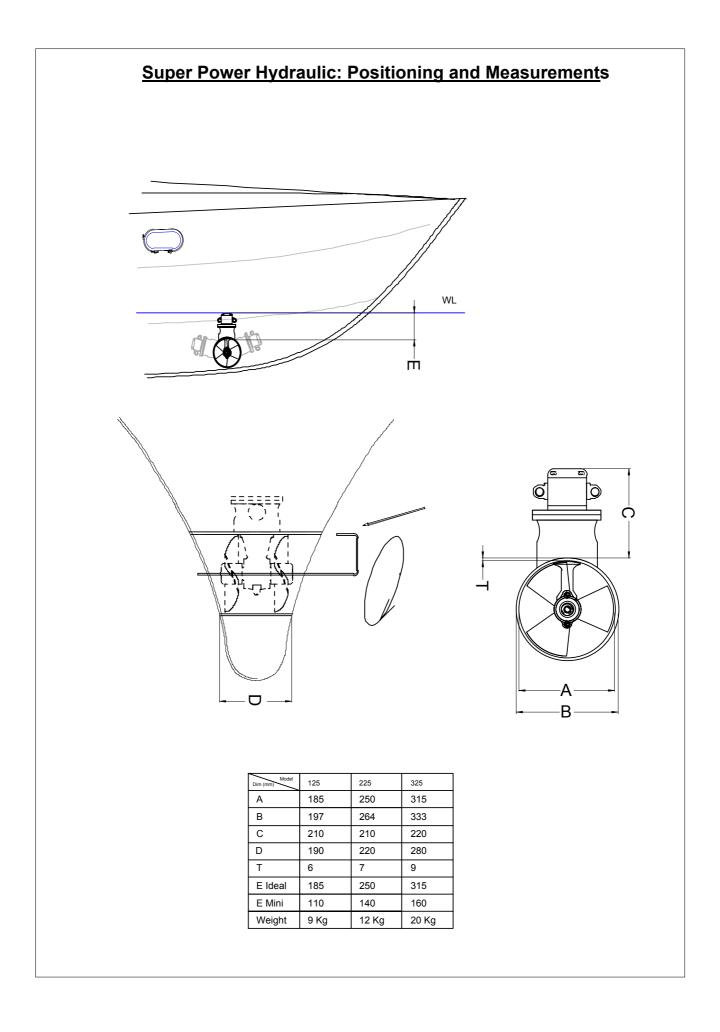
### **SUPER POWER 225 HYD**











### WARRANTY COVERAGE

### Introduction

The purpose of this document is to set out the terms of warranty cover offered in relation to products purchased by the End User from Max Power or its approved network of resellers. This document will adhere to the following format: -

Section 1	Definitions
Section 2	Period of Coverage
Section 3	Warranty Registration
Section 4	Warranty Terms
Section 5	Warranty Exclusions
Section 6	Procedural Guidelines
Section 7	Service Centers

Authorized Repair Number – The number given by Max Power on reporting a fault with your thruster

Dealer - An authorized Max Power sales center

End User – The boat supplied with supplied equipment and the owner thereof Installer – The authorized center responsible for the installation of your thruster Manufacturer – supplier of the equipment under warranty

*Pleasure Craft* – Vessels used for owner's personal use that have no commercial use (i.e. Charter boats or work boats)

Resellers – Max Power approved distributors and dealers

Serial Number – Number in upper right hand corner of Warranty document

Supplier – The manufacturer (Max Power)

Warranty – The terms and conditions that are covered by the manufacturer

### 2) Period of Coverage

The equipment manufactured by the Supplier is guaranteed to be free from defective workmanship, components and materials under normal usage conditions for a period of two years from the date of purchase by the End User. This warranty is transferable to subsequent owners of this equipment during the period of coverage.

### 3) Warranty Registration

Register your purchase now to receive free extended warranty coverage. This can be done using one of the following methods (NB. proof of purchase must be included to establish that equipment is still under warranty):

- a) The quickest and easiest method to register your warranty is to fax the attached installation check list and warranty registration to the Manufacturer (Fax: +33 4 92 19 60 61)
- b) Mail in your warranty registration document, please ensure that you <u>make a copy</u> before sending it. (10 Allée F Coli, 06210 Cannes-Mandelieu, France)

### 4) Warranty Terms

If the material is used for anything other than for pleasure craft, the guarantee is limited to a six-month period.

- Year 1 All factory testing, diagnosis, repairs and replacements are performed at no charge to the End User. All parts and up to two hours of labour are covered for repairs and replacements conducted in the field.
- Year 2 All factory testing, diagnosis, repairs and replacements are performed at no charge to the End User. This excludes any damage or faults occurring from normal wear and tear on the following items: engine, oil seals, relay contacts (If warranty is registered within the 3 month period following installation)

### 5) Warranty Exclusions

Damage due to modifications or installation contrary to published specifications Cost of hauling the boat

Damage due to repairs performed by an unauthorized service center

Damage due to lack of normal maintenance services

Damage due to water

Parts replaced due to normal wear and tear

Repairs performed without knowledge of manufacturer (please contact dealer to receive Repair Authorization Number)

Tampering of equipment by the End User

Cost of travel to and from the job site

Cost of economic loss, including injury to any person, damage to property, loss of income or profit, communication, lodging, inconvenience

Consequential damage due to failure, including those arising from collision with other vessels or objects

### 6) Procedural Guidelines

PLEASE VIEW THE TROUBLE SHOOTING LIST TO ASCERTAIN OR SOLVE ORIGIN OF PROBLEM PRIOR TO CONTACTING THE DEALER/INSTALLER

- 1) Contact your dealer/installer to report the problem.
  - a. If you do not know who this is contact the nearest Max Power distributor
  - b. If you are in foreign waters please contact the nearest Max Power distributor
- 2) Ensure you have your serial number and model number to hand (top right hand corner of warranty)
- 3) Dealer/Installer will come to site to decipher the cause of the fault
- 4) If the cause of fault is due to a manufacturing problem the dealer will contact Max Power to receive Repair Authorization Number.
- 5) If the problem is due to an installation error please contact your installer.

IF POSSIBLE: PLEASE TAKE PHOTOGRAPHS OF THE THRUSTER TO SHOW PROBLEM

### **DISTRIBUTER CONTACT LIST:**

### **SOUTHERN EUROPE:**

CYPRUS	CYPRUS
OCEAN MARINE EQUIPMENT LTD	TUTI MARE TRADING
Limassol	Limassol
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ACCASTILLAGE BERNARD	ALEX MARINE
Cannes La Bocca	Piraeus
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Fax: + 39 02 35680325	Fax: + 351 21 362 29 08
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Cambrils Tarragona	Tuzla - Istanbul
Tel: + 349 77 36 2118/9074	Tel:+90 216 494 21 68
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Fax: + 349 77 36 2687	Fax:+90 216 494 22 18
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### **AMERICAS:**

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Buenos Aires	Vancouver
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Fax: + 54 11 47 46 16 96	Fax: + 1604 325 03 26
Email: Admin@baron.com.ar	Email: michael@rekord-marine.com
BRAZIL	<u>U.S.A.</u>
SAILING PRODUCTS	SCANDVIK
Rio de Janeiro	Vero Beach, Florida
Tel: + 55 21 494 7222	Tel: + 1 561 567 28 77
Fax: + 55 21 494 7223	Fax: + 1 561 567 91 13
Email: spsail@ibm.net	Email: sales@scandvik.com

### **AUSTRALIA, INDIA & ASIA:**

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OCEANTALK	POWER & MARINE
Sydney	Wiri Auckland
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Fax: + 612 9981 9555	Fax: + 64 9 914 55 88
Email: rk@oceantalk.com.au	Email: sales.staff@powermarine.co.nz
CHINA	<u>CHINA</u>
RONSIL DEVELOPMENT	HOLYLIGHT TRADING
Hong Kong	Hong Kong
Tel: + 852 2834 1633	Tel: + 852 2543 7048
Fax: + 852 2834 0201	Fax: + 852 2543 6156
Email: ronsil@netnavigator.com	Email: coha@biznetvigator.com
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INDIA	
Indo Marine Engineering Co. Pvt. Ltd.	
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Fax: +91 20 27122295	
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### **MIDDLE EAST & AFRICA**

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Fax: + 972 3 527 1031	Fax: + 27 21 510 14 89
Email: office@yamit.co.il	Email: manex@manex.co.za
EGYPT Seheemy Company	
Nasr City, Cairo	
Tel: +202 4032043\4041950	
Fax: +202 4026595	
E-mail: seheemy@intouch.com	
2 man 1 seriestry @meach.com	



Serial N°:		

### **WARRANTY FORM**

### **VERY IMPORTANT**

Please complete this form and fax a copy to Max Power with a copy of the installation invoice or the invoice of the yacht/boat in order for the warranty to come into effect.

To Be Completed by Owner:
Name of Owner:Contact No.:
Address: E-mail:
Country:Postcode:
Name of Skipper:Contact No.:
Signature of Owner: <u>Date:</u>
To Be Completed by Installer:
Installation Details:
Thruster Model :
Installation Checks:
Before Operating Thruster While Operating Thruste
Electrical: Voltage at Batteries  Voltage at Thruster Motor
Mechanical:
Verify if drive coupling between motor and drive leg is correctly tightened:Yes / N Verify if all cable connections is sufficiently tightened:Yes / N
If hydraulic verify all hydraulic connections:
Important: Refer to installation manual for full installation details.
Name of Installer: Signature: Signature:
////////////////////////////////////
TO GAIN YOUR EXTRA WARRANTY COVERAGE