

MAX
POWER
CONTROL TO THE MAX
Hydraulic Tunnel Thruster

Series CT HYD 325
Model 325

INSTALLATION OPERATION MAINTENANCE

Serial N° :

Date of Installation : _____

IT IS IMPORTANT TO KEEP THIS MANUAL ON BOARD!

Via Philips 5, 20900 Monza (MI), Italy

Tel. +39 039 200 1973-936 Fax +39039 2004299

E-mail: contact@max-power.com

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

1) GENERAL INSTALLATION GUIDELINES

Decide on the best location for the thruster. (See drawing: "Positioning & Measurements" at back of manual).

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

The MAX 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.

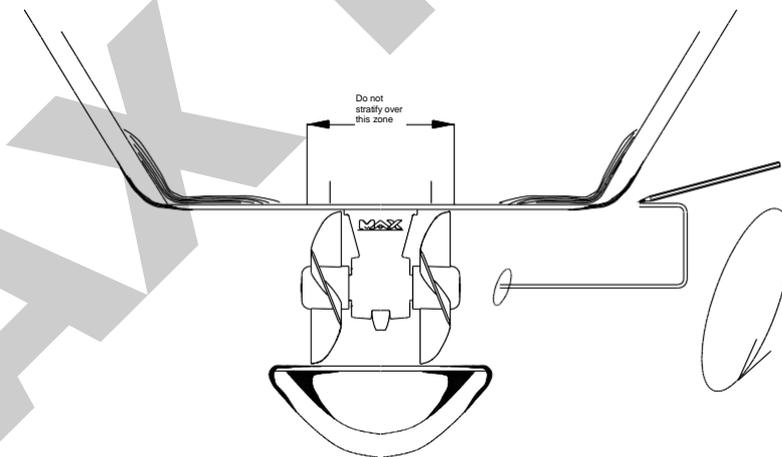
If you have less than 8 mm thickness, you will require an extra hard rubber gasket between the motor support and the tunnel.

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 \varnothing 10 mm hole. Make up a metal compass from 8 mm rod.

Fit compass into the \varnothing 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 fiber-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 fiberglass 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.

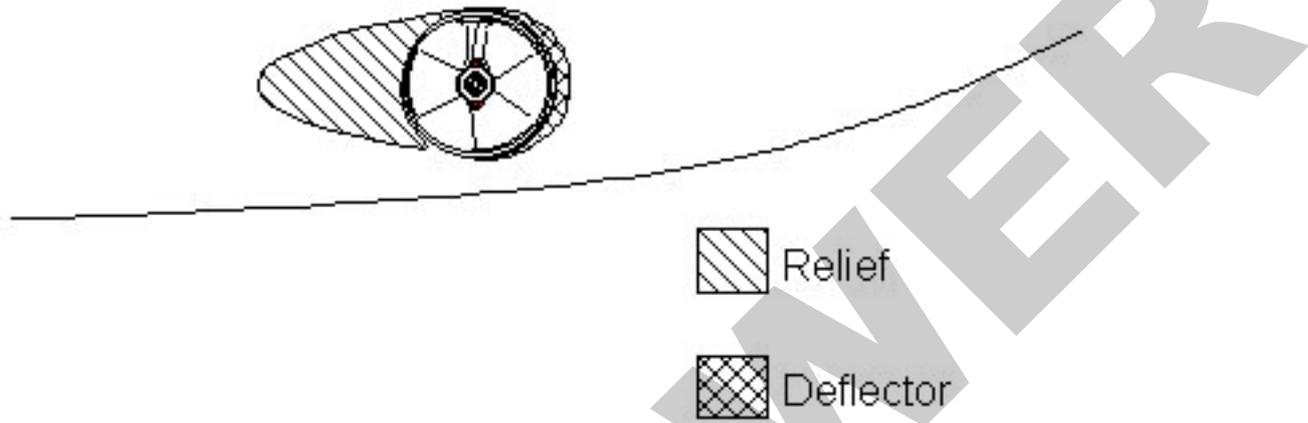
CAUTION: Do not apply fiber glass to the area of the motor support.

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 optimize 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 fiberglass 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 \varnothing 12 mm = 80 Nm screw; tighten the two fixing screws alternately.

Once tightened, ensure that the propeller/s turn freely without touching the tunnel.

Warning: During installation, only the original screws [part number 22] delivered with the drive leg must be used. If screws of bigger length are installed, then there is risk of damage to the drive leg and water ingress onboard.

4) THE HYDRAULIC MOTOR AND ITS ADAPTER

Do not separate the motor from its adapter.

Insert the lower drive coupling onto the leg drive shaft (lightly grease the shaft before doing this).

Position the red plastic coupling (piece n° 10 on “Spare Part Diagram”) onto the lower coupling. Before tightening the 2 x 6 mm Allen fixing screws of the lower coupling, make sure that coupling is pushed all the way down on drive leg shaft.

Then position the motor and tighten the 4 x 10 mm to 40Nm.

IMPORTANT: Please note that the above coupling might need to be adjusted if any other tunnel than a Max Power tunnel (thickness 9mm) is used.

The top and bottom coupling pieces should fit tightly together to ensure maximum gripping between them.

Check that the propellers turn freely and that there is no tight spot. A certain amount of resistance is normal from the motor. When all is assembled recheck the tightness of all the motor bolts.

NOTE: The coupling on the motor side is in place when delivered, do not touch this.

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 fixing 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 24 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

MAX POWER Series 325HYD Model 325: Flow =38/45 liters /Min; Pressure =210/240 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: 2 x Electro Pump 24Volt
 2 x Power Relay
 2 x Fuse Holder
 2 x Power Fuse
 2 x Check Valves

HYDRAULIC CONTROL PACK (12 V / 24 V):

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

RESERVOIR PACK

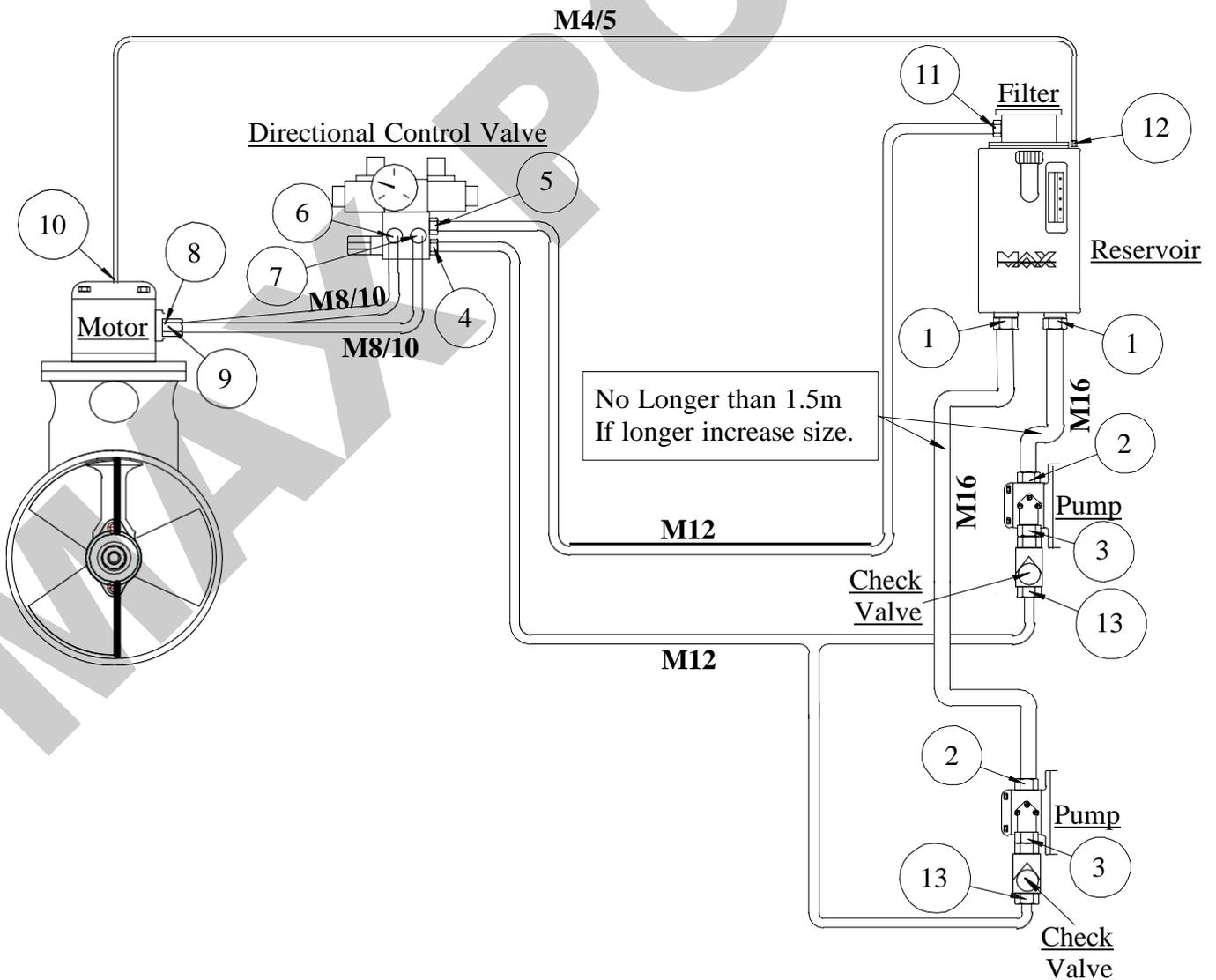
Oil Reservoir 12 / 18 / 40 liters including: Return Filter
 Suction Strainer
 Oil Level Sight Gauge/ Thermometer
 Filler Cap
 Motor Drain Connection

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 / 13 = 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 thruster, 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).

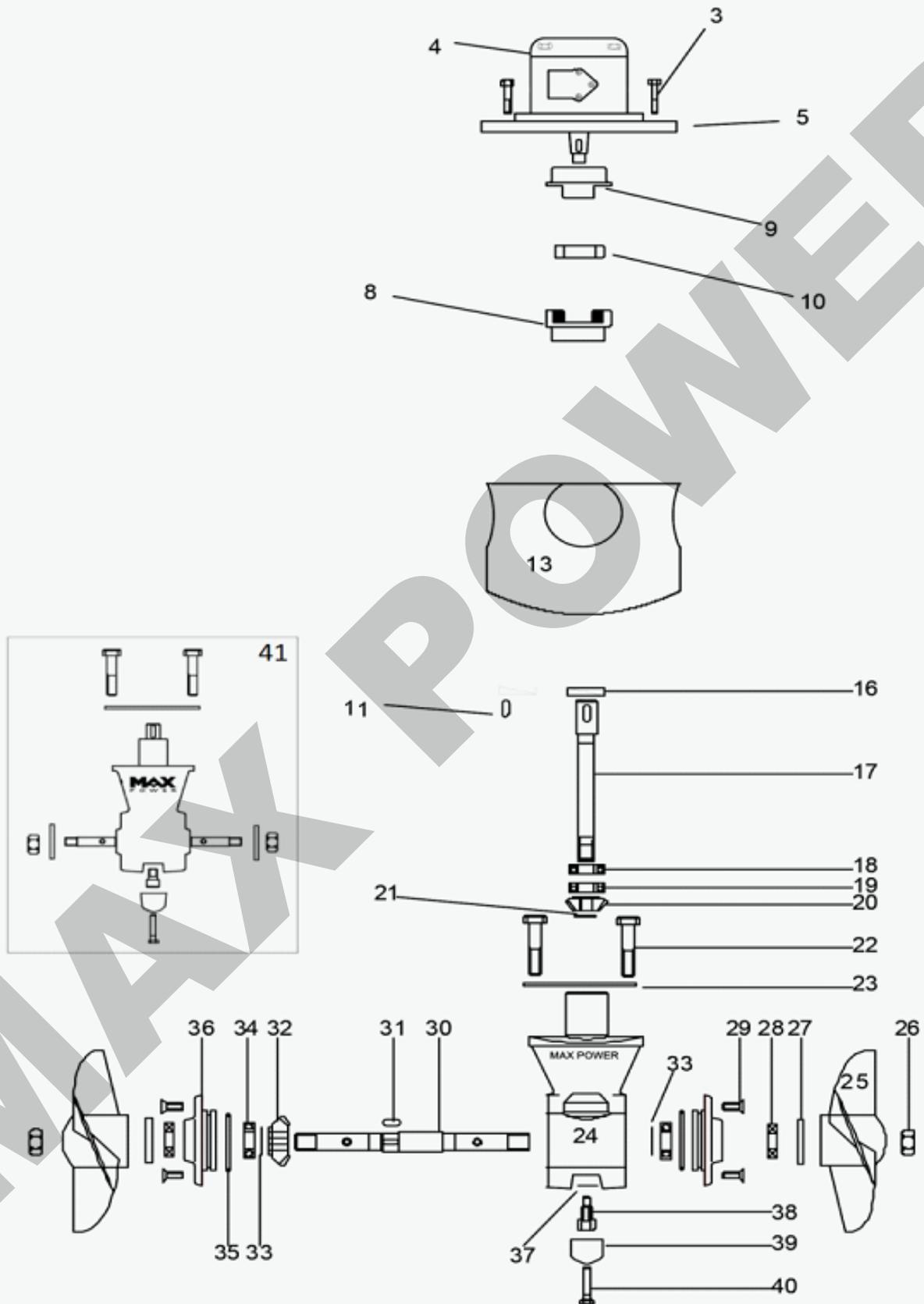
EVERY 5 YEARS: DRAIN hydraulic oil system and change the filter and refill.

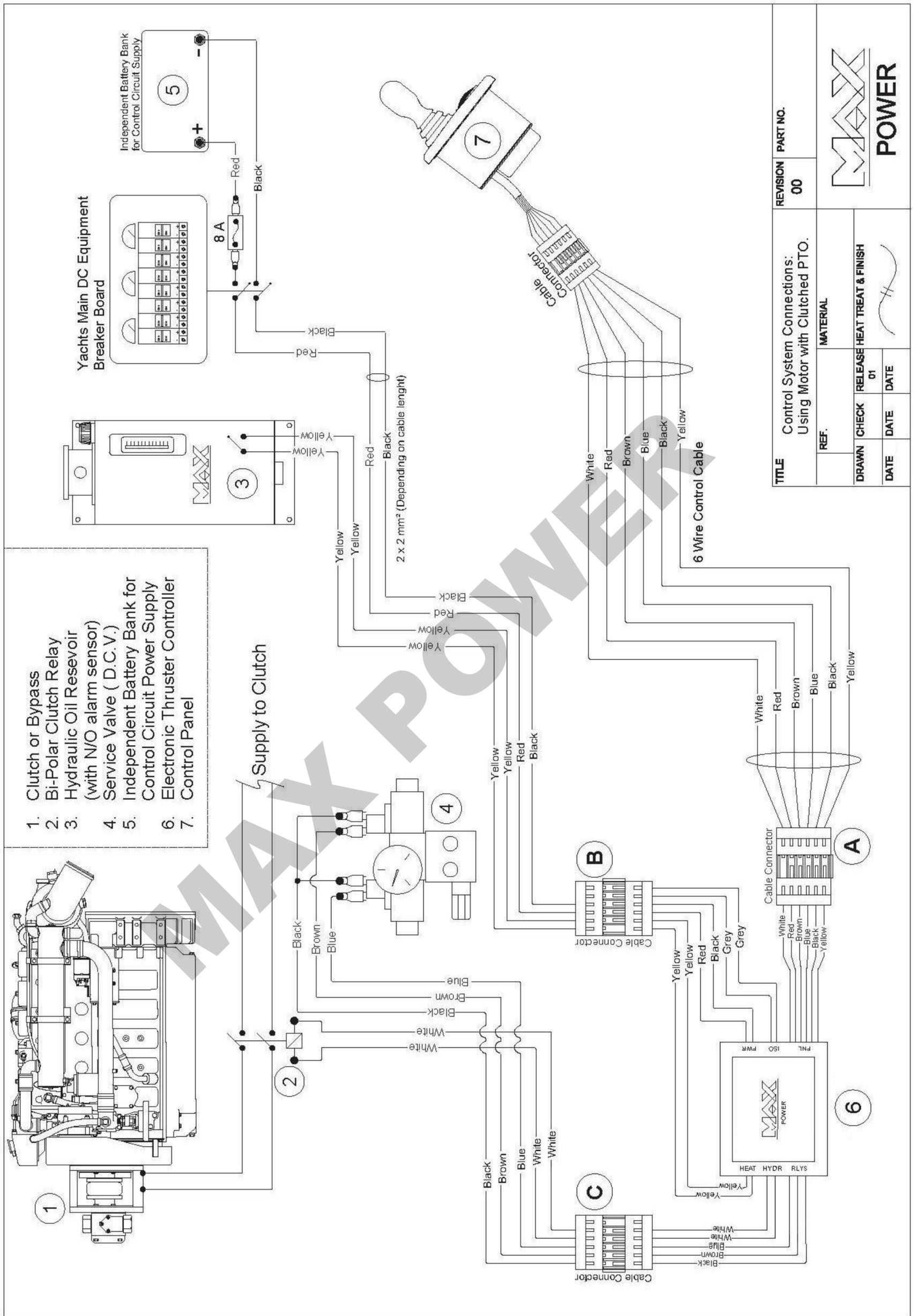
THE MAX-POWER TEAM WISHES YOU SUCCESSFUL MANOEUVRING AND ENJOYABLE CRUISING.

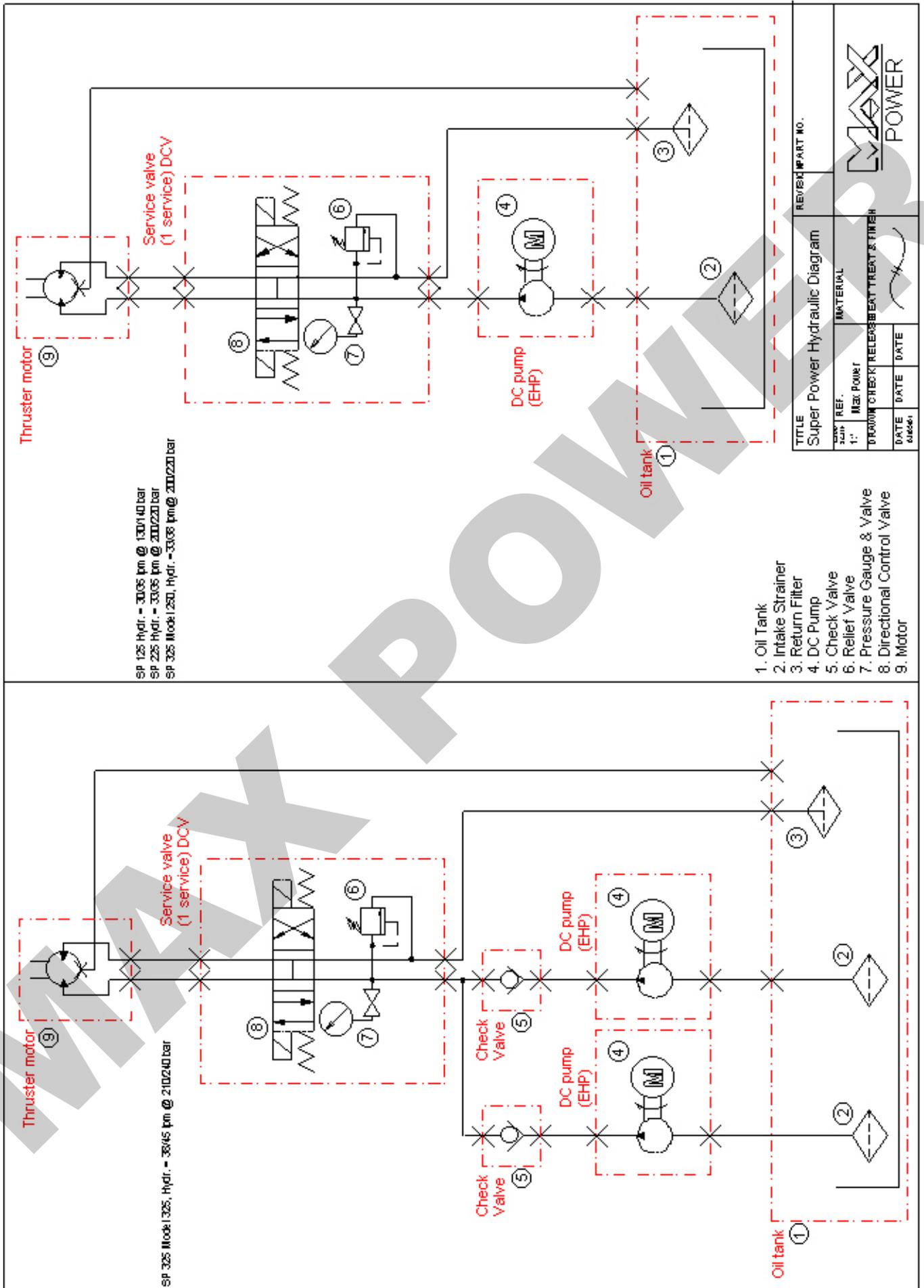
IT IS IMPORTANT TO KEEP THIS MANUAL ON BOARD!

SPARE PARTS LIST				
MAX POWER SERIES 325 HYD				
N°	DESIGNATION	Classic MPHY3150	References	New Code
4	Hydraulic motor	1	MPHY6005	313389 for 317598 Thruster 131390 for 317599 Thruster
5	Hydraulic motor adapter plate	1	MPHY5012	633752
8, 9,10	Coupling Kit	1	MPOP5127	(8) 633751, (9) 633750, (10) 633749
11	Drive key	1	MP205035	
13	Motor support 325	1	MP205020	310370
16	Drive shaft oil seal	1	MP205038	
17	Drive shaft	1	MP205040	
18	Upper ball bearing	1	MP205045	
19	Lower ball bearing	1	MP205050	
20	Drive gear	1	MP205001	310415
21	Clip	1	MP205002	
22	Leg fixing screws	2	MP204000	
23	Fibre joint leg/tunnel	1	MP205055	310253
24	Leg housing	1	MP205060	
25	Propeller Ø 315	2	MP205015	35033
26	Propeller nut	2	MP204005	
27	Propeller drive pin	2	MPOP5530	
28	Oil seal	2	MP205065	
29	Screw cap	4	MP204010	
30	Propeller shaft	1	MP205070	
31	Propeller shaft key	1	MP205035	
32	Propeller shaft gear	1	MP205006	310416
33	Shims (set of 1mm)	2	MP205080	
34	Propeller shaft ball bearing	2	MP205085	
35	O-ring cap	2	MP205090	
36	Cap	2	MP205095	
37	Copper washer	1	MPOP2050	
38	Drain plug	1	MPOP 5300	
39	Anode	1	MPOP5390	315300
40	Anode screw	1	MPOP5311	
41	Metal Leg Ct325			315324 Bronze 315411 Aluminium

MAX POWER SERIES 325 HYD





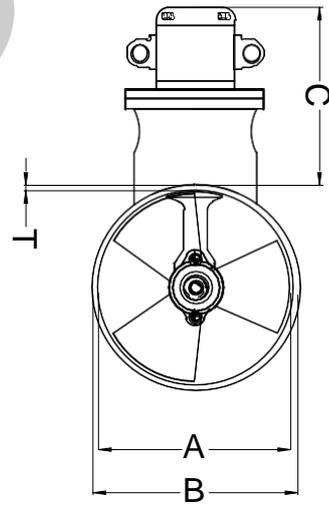
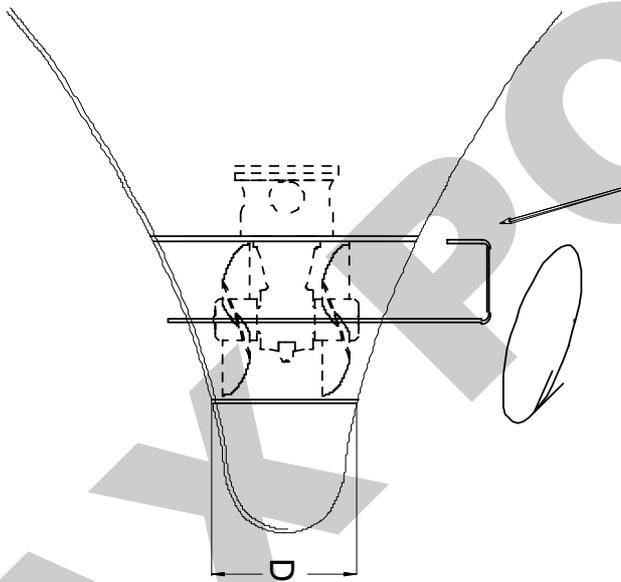
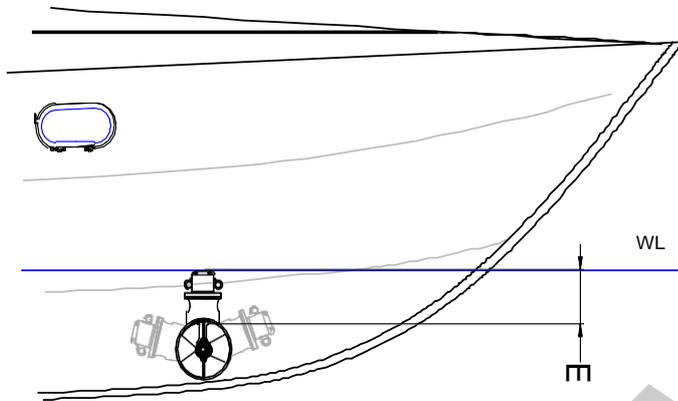


- 1. Oil Tank
- 2. Intake Strainer
- 3. Return Filter
- 4. DC Pump
- 5. Check Valve
- 6. Relief Valve
- 7. Pressure Gauge & Valve
- 8. Directional Control Valve
- 9. Motor

TITLE		REVISION / PART NO.	
Super Power Hydraulic Diagram			
SCALE	1"	MATERIAL	
REF.		CHECK	RELEASE
DATE		DATE	
DESIGN		DATE	



Hydraulic: Positioning and Measurements



Dim (mm) \ Model	125	225	325
A	185	250	315
B	197	264	333
C	210	210	220
D	190	220	280
T	6	7	9
E Ideal	185	250	315
E Mini	110	140	160
Weight	9 Kg	12 Kg	20 Kg

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 centre

End User – The boat supplied with supplied equipment and the owner thereof

Installer – The authorized centre 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 (2) 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 within 3 months from the purchase date, to receive free extended warranty coverage by 1 year (3 years' total 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 fill in the Warranty Form (on our official website) from the following link and submit it. <https://www.max-power.com/warranty>

b) Register a Ticket by filling in the Contact Us form (on our official website)

www.max-power.com/contact. Kindly ensure to note down the Ticket Number for future reference.

Warranty Document Cont.

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 labor 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 centre

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

The warranty as outlined above is only applicable to Max Power manufactured thrusters and optional equipment as used in marine pleasure industry. The supplier holds the exclusive right to test the product and determine whether it is defective.

DISTRIBUTER CONTACT LIST:**SOUTHERN EUROPE:**

<p><u>CYPRUS</u> OCEAN MARINE EQUIPMENT LTD Limassol Tel: + 357 53 69 731 Fax: + 357 53 52 976 Email: oceanm@spidernet.com.cy</p>	<p><u>CYPRUS</u> TUTI MARE TRADING Limassol Tel: + 357 25 431 313 Fax: + 357 25 431 300 Email: tutimare@cytanet.com.cy</p>
<p><u>FRANCE</u> ACCASTILLAGE BERNARD Cannes La Bocca Tel: + 33 493 90 47 47 Fax: + 33 5 46 45 49 53 Email: t.barrez@accastillage-bernard.fr</p>	<p><u>GREECE</u> ALEX MARINE Piraeus Tel +30 10 41 29 539 Fax: + 30 10 41 12 932 Email: alexmarine@otenet.gr</p>
<p><u>ITALY</u> Siemens VDO Trading srl via Vialba, 50 20026 Novate Milanese (MI) Tel: + 39 02 3568 04 81 Fax: + 39 02 35680325 info.soem@siemensvdo.com</p>	<p><u>PORTUGAL</u> PLASTIMO PORTUGAL (SIROCO) Lisbon Tel: + 351 21 362 04 57 Fax: + 351 21 362 29 08 Email: plastimo@siroco-nautica.pt</p>
<p><u>SPAIN</u> ACASTIMAR Cambrils Tarragona Tel: + 349 77 36 2118/9074 Fax: + 349 77 36 2687 Email: acastimar@acastimar.com</p>	<p><u>TURKEY</u> EGEMAR Tuzla - Istanbul Tel:+90 216 494 21 68 Fax:+90 216 494 22 18 Email: sales@egemar.com</p>
<p><u>CROATIA</u> ANORTI ADRIA Mirosevecka c 122, Zagreb Tel: +385 98 1896 770 Fax: +385 23 386 075 Email: info@anortiadria.hr</p>	<p><u>SLOVENIA</u> ANORTI Kavciceva 66 Ljubljana Tel: +386 1 544 6436 Fax: +386 1 544 6435 Email: info@anorti.si</p>
<p><u>MALTA</u> STRAND MARINE Triq Is Sebh, Qormi Tel: +356 21 472 336 Fax: +356 21 472 338 Email: info@strandmarinemalta.com</p>	

NORTHERN EUROPE:

<p><u>DENMARK</u> PALBY MARINE Vejle Tel: + 45 75 88 13 11 Fax: + 45 75 88 17 01 Email: palby@palby.dk</p>	<p><u>GERMANY</u> LEAB Schlieswig, Busdorf Tel.: +49 4621- 36 06 67 Fax: +49 4621- 36 06 69 Email: info@leab.de</p>
<p><u>ICELAND</u> VELASALAN 101 Reyjavik Tel : +354 580 5312 Fax : +354 580 5301 Email: Stefan@velasalan.i</p>	<p><u>HOLLAND & BELGUIM</u> NAVIMO HOLLAND Schoonhoven Tel: +31 182 320 522 Fax: +31 182 320 519 Email: info@plastimo.nl</p>
<p><u>FINLAND</u> MASTERVOLT FINLAND Raisio Tel: + 358 2 4339990 Fax: + 358 2 4350085 Email: info@mastervolt.fi</p>	<p><u>HOLLAND</u> KEMPER EN VAN TWIST Dordrecht Tel: + 31 078 61 30 155 Fax: + 31 078 61 36 746 Email: jvmaaren@kvt.nl</p>
<p><u>NORWAY</u> PROGRESS INGENIORFIRMA AS Kjeisaas Tel: + 47 22 02 79 00 Fax: + 47 22 02 79 01 Email: thomas@progressing.no</p>	<p><u>SWEDEN</u> PLASTIMO NORDIC Henan Tel: + 46 304 360 60 Fax: + 46 304 307 43 Email: mikael.andersson@navimo.se</p>

<p><u>U.K.</u> PLASTIMO UK Eastleigh, Hampshire Tel: + 44 870 751 4666 Fax: + 44 870 751 1950 Email: sales@plastimo.co.uk</p>	<p><u>U.K.</u> AR PEACHMENT Norfolk Tel: + 44 1603 714 077 Fax: + 44 1603 714 211 Email: kevin@peachment.co.uk</p>
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AMERICAS :

<p><u>ARGENTINA</u> BARON SRL Buenos Aires Tel: + 54 11 4580 55 56 Fax: + 54 11 47 46 16 96 Email: Admin@baron.com.ar</p>	<p><u>CANADA</u> REKORD MARINE ENTERPRISES LTD Vancouver Tel: + 1604 325 52 33 Fax: + 1604 325 03 26 Email: michael@rekord-marine.com</p>
<p><u>BRAZIL</u> SAILING PRODUCTS Rio de Janeiro Tel: + 55 21 494 7222 Fax: + 55 21 494 7223 Email: spsail@ibm.net</p>	<p><u>U.S.A.</u> SCANDVIK Vero Beach, Florida Tel: + 1 561 567 28 77 Fax: + 1 561 567 91 13 Email: sales@scandvik.com</p>

AUSTRALIA, INDIA & ASIA:

<p><u>AUSTRALIA</u> OCEANTALK Sydney Tel: + 612 9981 9500 Fax: + 612 9981 9555 Email: rk@oceantalk.com.au</p>	<p><u>NEW ZEALAND</u> POWER & MARINE Wiri Auckland Tel: + 64 9 914 55 55 Fax: + 64 9 914 55 88 Email: sales.staff@powermarine.co.nz</p>
<p><u>CHINA</u> RONSIL DEVELOPMENT Hong Kong Tel: + 852 2834 1633 Fax: + 852 2834 0201 Email: ronsil@netnavigator.com</p>	<p><u>CHINA</u> HOLYLIGHT TRADING Hong Kong Tel: + 852 2543 7048 Fax: + 852 2543 6156 Email: coha@biznetvigator.com</p>
<p><u>JAPAN</u> KAZ MARINE Yamato City, Kanagawa Tel: +81 46 268 41 01 Fax: +81 46 268 4351 Email: kazplast@olive.ocn.ne.jp</p>	<p><u>SINGAPORE</u> OCEANTALK ASIA Singapore Tel: + 65 6543 4041 Fax: + 65 6543 4042 Email: lee@oceantalk.com.sg</p>
<p><u>INDIA</u> Indo Marine Engineering Co. Pvt. Ltd. Pune 411- 026 Maharashtra Tel: +91 20 27123003 Fax: +91 20 27122295 Email: siddharth@indomarine.net</p>	

MIDDLE EAST & AFRICA

<p><u>ISRAEL</u> YAMIT PO Box 6158 Tel Aviv Tel: + 972 3 527 1779 Fax: + 972 3 527 1031 Email: office@yamit.co.il</p>	<p><u>SOUTH AFRICA</u> MANEX & POWER 5 Industry Street Paarden Eiland Tel: + 27 21 511 72 92 Fax: + 27 21 510 14 89 Email: manex@manex.co.za</p>
<p><u>EGYPT</u> Seheemy Company Nasr City, Cairo Tel: +202 4032043\4041950 Fax: +202 4026595 E-mail : seheemy@intouch.com</p>	



WARRANTY FORM

Serial N°: [Red bordered box]

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:Date:

To Be Completed by Installer:

Installation Details:

Thruster Model :.....Electric/Hydraulic :.....
Date of Installation :..... Date of Launching Boat :
Type and model of Boat : Builder:..... Build Year:
Pleasure or Commercial craft?:..... Sail or Motor: Rig:.....
Navigates at Sea or River or Canals?..... Hull construction material :.....
L.O.A.:.....L.W.L. :..... Beam :..... Free Board:.....
Displacement Weight at Full Load: :..... Height & Length of
Superstructure:.....
Tunnel Diameter, Thickness, Material & Length:
If Electric, Battery Type, Size & Number:

Installation Checks:

Before Operating Thruster While Operating
Thruster
Electrical: Voltage at Batteries
Voltage at Thruster Motor
Charge at Alternator in Amps
Ampere in Motor Power Circuit
Mechanical: Verify if drive coupling between motor and drive leg is correctly tightened:..Yes / No
Verify if all cable connections is sufficiently tightened: Yes/ No
If hydraulic verify all hydraulic connections: Yes/ No
Thruster installation tested and working correctly: Yes/ No

Important : Refer to installation manual for full installation details.

Name of Installer: Signature :.....

https://www.max-power.com/warranty