

The logo for MAX POWER. The word "MAX" is in a large, bold, 3D metallic font. Below it, the word "POWER" is in a smaller, bold, sans-serif font.

Ignition Protected Thruster With electronic thruster control

INSTALLATION OPERATION MAINTENANCE

Installation date: -----

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The use of **qualified marine personnel**, with experience in bow thruster installation, is strongly advised. Where possible, the boat manufacturer's design departments, architects, 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.

IT IS ESSENTIAL TO READ THE FOLLOWING MANUAL CAREFULLY BEFORE INSTALLING THE THRUSTER

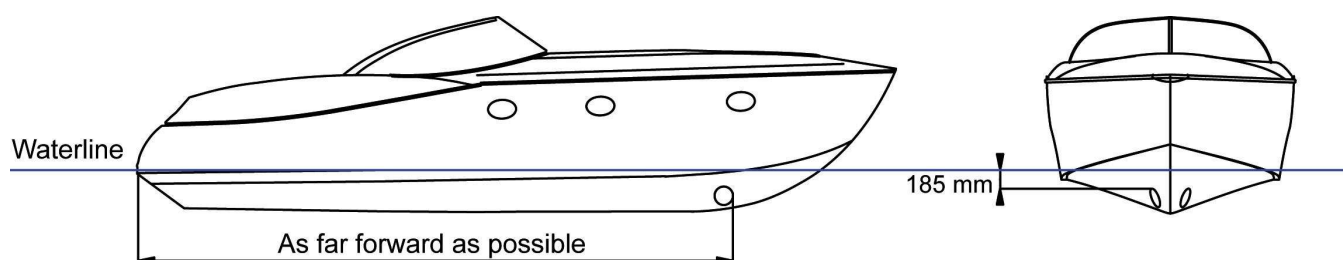
WARNING

Under no circumstances should the thruster casing be opened. Opening or modifying the thruster may result in it no longer being Ignition Protected. In case of a problem please contact your local Max Power distributor.

NB : The thruster is delivered without accessories (fuse, fuse holder, control panel).

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In order to install the thruster in the most efficient position, follow the instructions below:



- The **minimum** acceptable tunnel position is 139 mm below the waterline
- **The tunnel is ideally positioned when the distance between the waterline and the top of the installed tunnel is 185 mm**
- The tunnel must be installed as far forward as possible

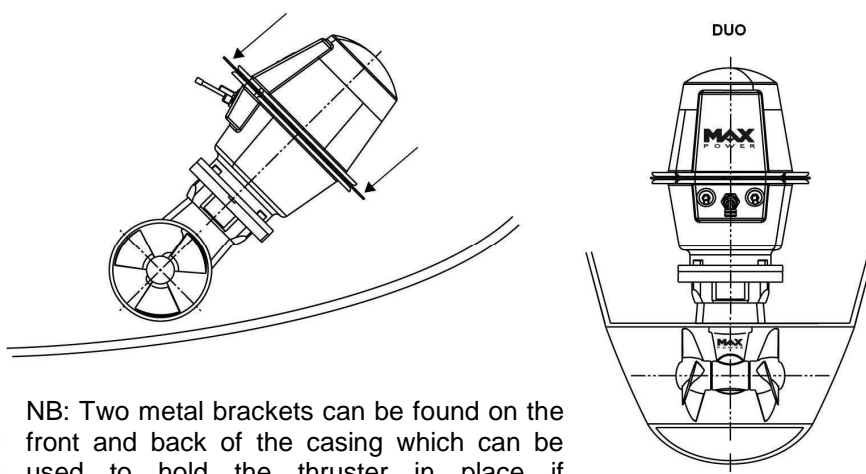
NB: A thruster turbine installed above its ideal position towards its minimum depth will lead to a progressive loss of performance.

Whether inclined or horizontal, it is recommended to support the electric motor.

The batteries used by the thruster must be charged by both the main engine's alternator and an appropriate battery charger.

If the thruster is installed using a dedicated battery bank, this must be as close as possible to the thruster in order to reduce voltage loss in the electric cables.

The drive leg must be centered in the tunnel and **under no circumstances** should the **propellers of either models protrude out of the tunnel.**



NB: Two metal brackets can be found on the front and back of the casing which can be used to hold the thruster in place if necessary.

22. SPARE PARTS LIST

N°	Description	Quantités	Référence
1	Upper motor casing	1	MPOP5837/SUP
2	Backing flange	2	MPOP5219
3	Complete relay 12 V	1	MP203102/2
3	Complete relay 24 V	1	MP203101/2
4	Electric motor CT100 12 V	1	MP083010
4	Electric motor CT125 24 V	1	MP083011
5	Flange gasket	2	MPOP5833
6	Centre flange	1	MPOP5218
7	Lower motor casing	1	MPOP5837/INF
8	Motor fixing screws	4	MP084001
9	Motor shaft drive key	1	MP115010
10	Motor coupling	2	MP242216/2 MP242220
11	Red plastic coupling	1	MP24RED3
12	Motor support	1	MP085030
13	Motor support	1	MP058035
14	Drive leg fixing screws	2	MPOP4130
15	Drive leg / tunnel fibre seal	1	MPOP2060
16	Drive leg key	1	MPOP5135/3
17	Composite drive leg	1	MP088100
18	Propeller drive pin	2	MPOP5221
19	Propeller	2	MPOP8080
20	Motor casing screw kit	16	MPOP4051
		16	MPOP4049
		16	MPOP4048
		32	VP084200
21	Electronic control box	1	MPOP5701
22	Fuse CT100-IP (315A)	1	OPTI3121
22	Fuse CT125-IP (200A)	1	OPTI3112
23	Fuse holder T1 for CT125	1	OPTI3119
23	Fuse holder T2 for CT100	1	OPTI3091
-	Fuse extraction handle	1	OPTI3118

Problem	Check
The control panel does not light up	<ul style="list-style-type: none"> • Check the 6 wire connector behind the joystick • Check the thruster's electronic control box 6 wire connector • Check the circuit breaker / switch in the boat's main DC distribution panel • Check the control box's power fuse (8 A)
The relays are clicking but the motor is not running	<ul style="list-style-type: none"> • Check the motor's power fuse • Check the main battery isolator • Check battery conditions and connections • Check the internal relay contacts <p style="text-align: center;"><u>WARNING</u> Only a qualified technician should check these points to ensure that the thruster is correctly reassembled and remains Ignition Protected.</p>
The motor is running but the thruster is not working	<ul style="list-style-type: none"> • Check the propellers are fitted • Check the motor / drive leg assembly • Check that the tunnel is not obstructed or the propellers blocked
The thruster lacks power	<ul style="list-style-type: none"> • Check the propellers are fitted • Check the size of the batteries • Check the batteries are sufficiently charged • Check the connections are tightened correctly • Check the power cables sections <p>(See p. 6 : Recommended cable sections)</p>

24. WORLDWIDE DISTRIBUTION NETWORK

To locate the nearest Max Power distributor, please consult the section
"Worldwide Distribution" on our website: www.max-power.com

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.

1. Definitions

- **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 three (3) 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 at www.max-power.com. (NB. proof of purchase must be kept throughout the warranty period)

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 & 3: 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 ON THE MANUAL OF YOUR PRODUCT TO ASCERTAIN OR SOLVE ORIGIN OF PROBLEM PRIOR TO CONTACTING THE DEALER/INSTALLER

1. Contact your dealer/installer to report the problem.
 - If you do not know who this is, contact the nearest Max Power distributor
 - 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

7. Service Centers

Please go online www.max-power.com to find the authorized service station of your area.

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