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Plastimo PWH 500 – PWH 500F

MOUNTING , OPERATION AND MAINTENANCE INSTRUCTIONS

IMPORTANT ADDITIONAL INFORMATION CONCERNING SAFETY ASPECTS OF YOUR ANCHOR WINDLASS

This product is not designed as a strong point to fasten your anchor rode. Fasten the anchor rode to a strong point such as a mooring cleat or similar.
We recommend to use teh vessel's engine to raise the anchor quickly.
Install always the properly rated circuit breaker to protect the electric plant and the motor from overheating and damages.
Always turn off the main switch, when the product is not in use, to prevent accidental engagement of the product.
Always keep hands and feet away from an operating windlass.If a jam occurs, turn the windlass off at the main switch before clearing the anchor rode.
Do not use the windlass for different purposes it was designed for.

WARRANTY

Plastimo warrants this product for a period of 2 years subjected to the conditions listed below :

1. The product must be registered. The registration must be done within 30 days from the date of purchase by one of these options : online going to the web site www.plastimo.com under the page "Product Registration"and following the instructions or by faxing to +33-(0)2 97 87 36 16 the completed registration card attached to the instruction manual.
2. This warranty starts from the date of purchase of the product from the original purchaser. If the product is first equipment of a new boat the warranty starts from the date of purchase of the boat.
3. This warranty covers original defects in material and workmanship.
4. This warranty is limited to the repair and/or the replacement of the original detective part.
5. The claim of warranty must be promptly notified in writing and sent by fax or e-mail to Plastimo providing the serial number of the product and the registration warranty number. Plastimo reserves the right to require the proof of purchase of the product to accept the claim of warranty.
6. The defective part/product must be returned to Plastimo. List of authorised distributors is available on the web site www.plastimo.com.
7. This warranty does not cover failures due to : use of the product in applications for which they are not intended , corrosion , normal wear and tear , discolouration , unauthorised alteration of the product , improper installation , incorrect use or maintenance of the product , conditions that exceed the product's performance specifications.
8. This warranty does not cover any loss or damages to the original purchaser due to a proven non conformity of the product with the exception of the cases ruled by the French law.
9. Plastimo reserves the right to disclaim the warranty in case the product be controlled by improper electric devices and/or in case of non installation of a proper circuit breaker on the electric power line.

The consumer statutory rights are not affected by this warranty according to the national legislation, disciplining the sale of goods. This warranty is ruled by the French law. For every controversy the Court of Lorient is competent exclusively.

MODEL CLASSIFICATION

FOR YOUR OWN SAFETY PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING OR USING YOUR WINDLASS.
Fill in this form to obtain a complete classification of the installed model.

MODEL	42979		42980		42981		42982	
MOTOR	500 Watt 12 Volt	☐	500 Watt 12 Volt	☐	500 Watt 12 Volt	☐	500 Watt 12 Volt	☐
CHAIN	∅6 Iso – Din 766	☐	∅8 Iso – Din 766	☐	∅6 Iso – Din 766	☐	∅8 Iso – Din 766	☐
ROPE	∅12 mm – ½"	☐	∅14 mm – 9/16"	☐	∅14 mm – 9/16"	☐	∅14 mm – 9/16"	☐
					Free fall option	☑	Free fall option	☑

ELECTRIC PLANT

Check that the motor tension corresponds to the electric plant on board. The following schedule shows the suggest minimum battery feeding of the windlass , the minimum suggested cable section and the proper circuit breaker to install on the power line.

MOTOR	BATTERY	CABLES SECTION		CIRCUIT BREAKER
500 Watt 12 V	60 Ah	16 mm²	4 AWG	35 Amps

When the windlass is fed by an inferior battery , the performances will be minimum and the battery will rapidly be subject to wear and tear. We recommend to use excellent quality cables , insulated and heat resistant. The cable sections have to be increased by 30% - 50% approx. when the extended cable , positive and negative , is longer than 10 mts. or 29' . The cables connected to the electric controls , shown on the wiring diagram by a thin line , should have a section of 1.5 mm² or 16 AWG approx. These values refer only to PLASTIMO circuit breakers.
The circuit breaker protects from very dangerous short circuits , protects the windlass motor , avoiding damages due to anomalous absorption and interrupts the tension to windlass , when desired. The circuit breaker must be installed in a dry , accessible and visible place. For your safety, we recommend that the windlass and remote are isolated during navigation and reactivated during anchoring. Install the Control Box preferably in a dry place on board. We recommend to install at least two remote controls to drive the windlass in case one of them gets damaged.
For the protection of electric remote controls, it will be necessary to install a circuit breaker of 5 Ampere.

Commentaire :

As for the electric remote controls , we recommend you to use original PLASTIMO components only , which are designed for sea water purpose. PLASTIMO equipment complies with the European Directives, products are CE approved.

INSTALLATION

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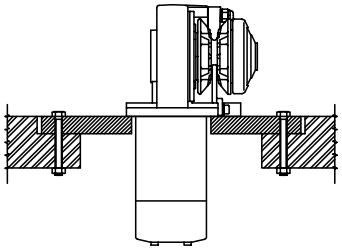
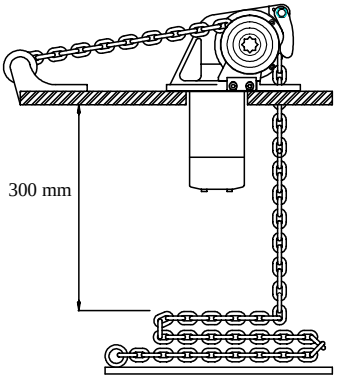


Ensure there are no deck obstructions. Be sure that there is enough space to use the handle. In order to facilitate maintenance operations, Plastimo suggests to install the windlass on a removable panel fixed on the deck by bolts.
Deck thickness should be 30 mm minimum. If the deck is too thin or inadequate , it will be necessary to use a backing pad (plywood , timber) of a sufficient size to spread the stress imposed during recovery of chain. To avoid electrolysis problems, do not use a stainless steel pad as backing pad.



When the position of the windlass has been set , drill the necessary holes , using the template we supply. Place the gasket supplied under the base of the windlass. Place the windlass on the deck. The windlass must be located so that the gipsy is in line with the bow roller .The chain must turn around the gipsy with a rotation of 90° approx. Fix the windlass using 3xM10 stainless steel hex head bolts. Ensure that the chain locker is of sufficient capacity to store all the chain and leave a minimum of 300 mm between the underside of the deck and the top of the heaped chain. Join the cables to the battery as shown on the wiring diagram. Introduce the rope/chain into the gipsy , operate the UP switch of the foot switch or remote control and the chain will automatically be fed into your locker. Take care to keep hands and feet away from the incoming chain. If the windlass runs in the wrong direction , change over M1 and M2 cables at the control box.
After using the windlass, we strongly recommend that the nuts are checked again to ensure they are well tightened.

OPERATION

WARNING ! = Do not approach with hands or feet near the gipsy and chain , when operating.
WARNING ! = When the windlass is not in use or before using the handle , turn off the windlass at the main switch .
WARNING ! = Engage the chain stopper after anchoring. Windlass must not be used as sole means securing anchor in bow fitting. Anchors should be independently secured to prevent accidental release .

Gipsy Clutch Operation – Plastimo 42979-42980
To engage the clutch, insert the handle supplied into the gipsy cap (B) tighten it by turning counter clockwise until you cannot move the handle any more. To uncouple the clutch, loose the gipsy cap by turning clockwise.

Raising The Anchor
Start the engine of the boat.

- Plastimo 42979-42980 : Be sure that the clutch is well engaged. Draw out the handle from the gipsy cap. Push the button UP of the foot switch or remote control.
- Plastimo 42981-42982 : Push the button DOWN of the foot switch or remote control.

Do not use the windlass to pull the boat to the anchor. Release the button UP to stop the anchoring. When you haul the last metres of the chain , pay attention to the anchor, which may damage the bow of your boat. If case the anchor gets stranded and the circuit breaker gets released , wait some minutes before putting it back into service and try the manoeuvre once more. Should the circuit breaker stop again , we suggest to fix the chain to a cleat or bollard , then use the boat engine to break the anchor loose. For your safety, we strongly recommend to turn OFF the circuit breaker and engage the chain stopper during navigation. Reactivate the circuit breaker and uncouple the chain stopper before anchoring.

Lowering The Anchor

- Plastimo 42979-42980 : To lower the anchor quickly, it is necessary to uncouple the clutch. The chain fall can be controlled by tightening the gipsy cap with the handle . At the end of the operation ,engage the clutch. Under usual conditions , we suggest to lower the anchor electrically ,

pushing the button DOWN placed on the remote control or foot switch. You will always have a perfect control of the manoeuvre , which can be interrupted any moment releasing the button DOWN .

- Plastimo 42981-42982 : Push the button DOWN placed on the remote control or foot switch for few seconds until the gipsy may freely run on its shaft and release the chain into the water. Do not push the button UP while the chain goes quickly down into the water.

Once anchored , we suggest to reduce the windlass load , to use a chain stopper and fix the chain with a rope to a strong point as a cleat.

MAINTENANCE

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Turn the windlass off at the main switch and remove with attention the chain from the gipsy before maintanance. A correct and periodic maintenance operation is essential for the best efficiency of your windlass. Remove the salt layer at least once every month, formed periodically on the outer casting , to avoid electrolysis problems which could prejudice the windlass performances. Wash with fresh water and clean all the surfaces, particularly in the most hidden points. We recommend, at least once every six months , to disassemble the windlass gipsy following the instructions below.
Plastimo 42979-42980 : Using the handle unscrew (B) then unscrew (G1) , remove (G2 , G3) and (G4) and extract (C1) or (C2).
Plastimo 42981-42981 : Unscrew (L1) then using the handle unscrew (B) then unscrew (G1, G5) , remove (G2 ,G3,G6) and (G4) and extract (C1) or (C2).
Clean and check all the parts , spray them all with Plastimo Sea 77 spray marine grease. Check if there are no electrolysis traces and grease the main shaft thread. After a long inactivity period , the electric motor could run slowly. We recommend to check and clear the brushes and replace them if necessary.
We strongly recommend to separate , at least once every year , the windlass from the deck and to clean and remove the salt layer under the base. The gearbox is proper filled with SAE 90 long life oil. If there is a leak of oil from the body , it will be necessary to disassemble and replace the seals. At the beginning and at the end of the season , check the motor and Control box covering the terminals with grease .

ORDERING SPARE PARTS

Spare parts are available by the kit only. See the exploded drawing to identify the part you need and please specify the kit code when ordering.

			Plastimo 42979	Plastimo 42980	Plastimo 42981	Plastimo 42982
A = 1 réf		Code				
B = 1 réf		Code				
C = 1 réf	C1	Code				
	C2	Code				
D = 1 réf		Code				
E = 1 réf	E1	Code				
	E2					
	E3					
	E4					
	E5					
	E6					
	E7					
F = 1 réf	F1	Code				
	F2					
	F3					
	F4					
	F5					
	F6					
	F7					
	F8					
G = 1 réf	G1	Code				
	G2					
	G3					
	G4					
	G5					
	G6					
H = 1 réf	H1	Code				
	H2					
	H3					
	H4					
	H5					
J= 1 réf	J1	Code				
	J2					
	J3					
K= 1 réf	K1	Code				
	K2					
	K3					
	K4					
	K5					
I = 1 réf	I1	Code				
	I2					
	I3					
	I4					
	I5					

L = 1 réf	L1	Code				
	L2					
	L3					
	L4					
	L5					