



**SIDE-POWER**  
Windlass Systems

## **Side-Power MIDI201**

*Keep this  
manual onboard !*

### **EN Installation and user manual**



### **SLEIPNER MOTOR AS**

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# Introduction

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Congratulations on your new windlass and thank you for selecting a Side-Power windlass. We hope your windlass will meet your expectations. Please note that this requires that the windlass will be installed and used in accordance with this manual in an environment with the correct conditions for proper operations. This includes the necessary voltage capacity for the windlass motor as well as correct placement of windlass, rope, anchor and anchor bracket.

## Introduction of MIDI 201

Side-Power Engbo MIDI 201 is designed for boats up to approximately 25 feet. These windlasses are true free-fall windlasses and are developed with a new electrical control box unit. This new unit is ready for connecting Side-Power remote control and switch panel.

### IMPORTANT!

This manual contains information you need to know before installing and operating the windlass. Therefore, please read it carefully.

## General procedure for use of Side-Power windlasses

Read the operating manual carefully before installing and using the windlass.

Please note that strong forces are involved, so please use the windlass carefully and make sure, for example, that:

- Keep your distance to the windlass, the rope, anchor and anchor brackets during operation
- Keep the rope/chain under observation during anchor handling.
- Make sure anyone using the windlass knows how to operate it.
- Be aware when the anchor are raised as it can bring unwanted debris up from the bottom, potentially damaging your boat.
- If the windlass is straining as the anchor are raised, stop for a few seconds and let the boat pick up momentum before continuing the raise.
- If the anchor is stuck, release some rope/chain and attach it to a cleat before using the boat to pull the anchor free. The windlass is not designed for loads beyond the specified pull capabilities.
- The anchor **MUST ALWAYS** be secured to the boat while sailing. Use the security line or other means to prevent unintentional anchor drop.
- Turn off the power to the windlass when not in use.
- Children must not operate the windlass.
- Careless use can cause damage or injury!
- Make sure to have good battery capacity, and keep the engine running windlass operation.
- Sleipner Motor AS is not responsible for injury caused by the use of our windlass systems



### IMPORTANT!

- Always keep the boat's motor running when operating the windlass.
- Always turn off the power to the windlass when it is not operated.
- The anchor must always be secured with security line when windlass is not in use.
- Always use original Side-Power rope.
- While dropping anchor, do not push the "UP" button until the anchor is resting at the seabed.
- Windlass and accessories must be installed and used in a manner that will not cause damage or injury.
- Personnel qualified for high current installations must carry out or check the installation.
- Do not mount any windlass parts in hazardous environments (i.e. flammable fumes or gasses).
- Control unit 150800 unit is **NOT** protected from water ingress, it must be installed in a dry area and not exposed for water.
- Windlass motor installations that are exposed to humidity **MUST** be surface protected with Tectyl or similar.



## Docking with remote control RC-21E, RC-22E & RC-23E

1. Make sure the boat engine is running during anchoring.
2. Decide where you want to drop anchor.
3. Check that the safety line on the anchor has been loosened.
4. Turn ON the main switch of the windlass.
5. When main switch for the windlass has been switched off, you must press down both ON buttons on the remote, before pressing DOWN button to release the anchor.

## Docking with fixed switch panel

1. Press the down button for at least 1 sec.
2. The anchor will drop.
3. The windlass is now released and the rope will run out in step with the progress of the boat towards land.
4. Tie up the boat

### Note!

If you are using a free-fall chain windlass, the high weight of the chain may result in the full length of the chain being pulled out. If so, make sure to tighten the slack once you have tied up the boat.

**Note!** The windlass will always wind in slowly before it switches to full speed. From software 1.008 can the windlass wind in with reduced speed by double clicking the UP button.

## Departing

1. Start the boat engine to charge the battery.
2. Turn on the main switch.
3. Release the mooring from land.
4. Activate the windlass.
5. Keep the up button depressed, and the windlass will pull the boat away from land. The windlass will pull the anchor up at full speed until the first auto stop is activated.

After the first auto stop:

1. Release the up button, press again and keep depressed.
2. The windlass will continue to raise the anchor slowly until the second auto stop is activated, stopping the windlass completely.
3. The anchor will then be correctly seated in the anchor bracket.
4. Attach the safety line to the anchor.
5. Turn off the main switch of the windlass.
6. Have a pleasant sailing!

**Note!** This ONLY applies for rope windlasses and requires the anchor rope to be correctly fitted with brass wire markers.

**Important!** Keep an eye on the anchor when it leaves the water and seats in the anchor bracket. This will allow you to stop the windlass and prevent damage if the anchor pulls up foreign objects from the seabed.

**Note!** If the windlass is straining while raising the anchor, it would be a good idea to run the windlass in periods. Once the boat has begun to move backwards, you can release the up button and then run the windlass in periods.





## Wireless remote control RC-21E

The remote is waterproof and floats if dropped into the water. It has under normal conditions an radio range of 15m.

See own manual for more information and variants.

**Note!** Remote and receiver is normally connected and ready to use.

- Remote control is turned ON by pressing both ON buttons.
- To ensure a long battery lifetime, the remote control switches off automatically 4 min. after the last button was pressed.



**Down**

## Anchor DOWN

- When the remote control is switched on, you can drop the anchor by pressing the "down" button. Keep this button depressed for at least 1 second to drop the anchor.
- The windlass will then run out slowly in the beginning to ensure the correct release function.



**Up**

## Anchor UP

- When the anchor has dropped to the seabed, press the "up" button to tighten the slack. The windlass will continue to winch in as long as you keep the "up" button depressed. If the remote control has switched off automatically (i.e. if you have not pressed a button for more than 4 min) you must first switch ON, and then immediately press UP start to wind in the anchor rope/chain. The windlass always starts to operate at reduced speed before increasing to full speed.



### IMPORTANT!

- Always turn OFF the power to the windlass when it is not being operated.
- The anchor must always be secured to the boat while the boat is sailing. Use the safety line supplied.



# Before installation

## Remember!

- **Make sure to have all necessary tools ready**
- **Unpack and organize all components**
- **Prepare and control the areas where all the different parts can be mounted.**
- **Follow the mounting instructions**
- **When winching the rope for the first time after mounting, make sure the rope is tight, so the rope is pulled inn correctly.**

## Placing the parts

You must plan the placement of the following parts:

- Winch/motor
- Brackets for anchor and windlass
- Cables
- Switch panel
- Controlbox
- Line guide
- Main switch/ miniature circuit breaker

## General

The windlass should be positioned as high as possible to allow maximum space for the rope that will be stored below the windlass. The height from the bottom of the wall where the rope is stored to the bottom edge of the line wheel should be at least 50 cm, and the area should be at least 40 x 40 cm to allow room for 50 m x 12 mm anchor rope. This will prevent the rope from bunching under the windlass and assure sufficient friction between the line wheel and the rope.

Note! Remember to attach the end of the rope somewhere inside the boat.

## Anchor bracket

Fit the windlass so that the rope is wound up in line with the anchor bracket (see pictures 1 and 2) - a numerous different models are available. The anchor bracket is working as a guide for the rope when the anchor is on the seabed and as a "seating point" for the anchor once it has been raised.

## Use of anchor bracket

The bracket for the rope must be installed with the rollers outside the platform.

## Standard platform roller or hinged platform roller

If the windlass is fitted low in relation to the bathing platform, so the angle between the bathing platform and the rope is too small, and if you are using a Bruce anchor, you should use an Side-Power Engbo hinged platform roller.

## Hull conduit / Line guide

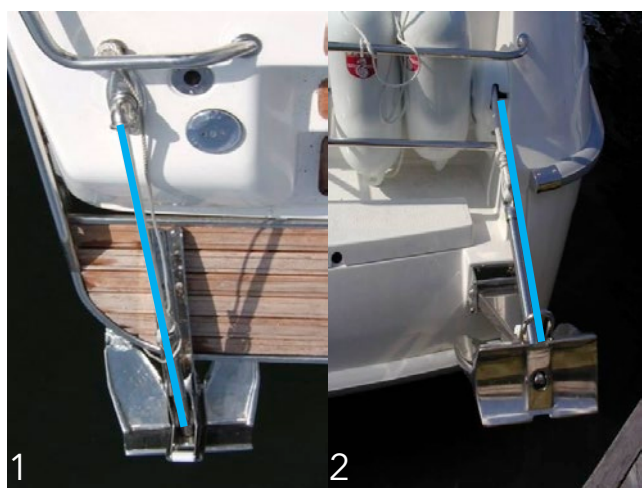
It will often be necessary to install a hull conduit with a roller that guides the rope with low friction through the hull.

## Rope

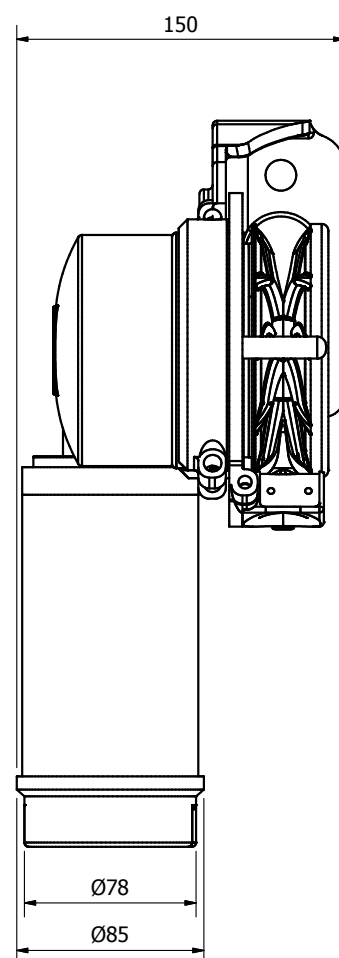
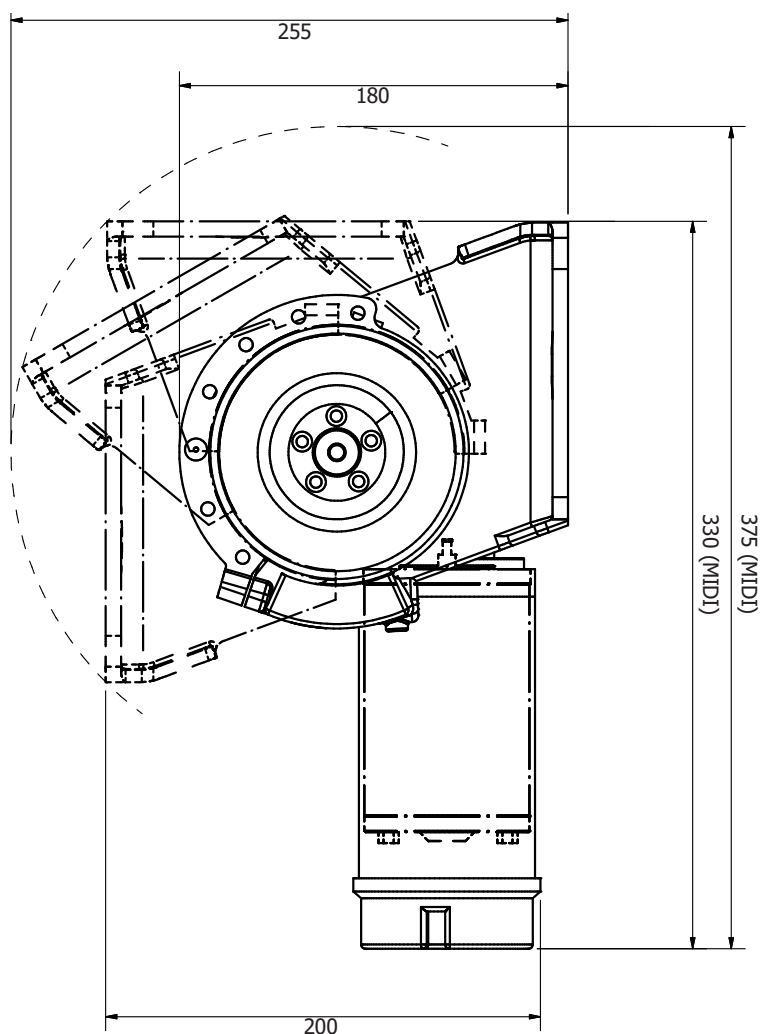
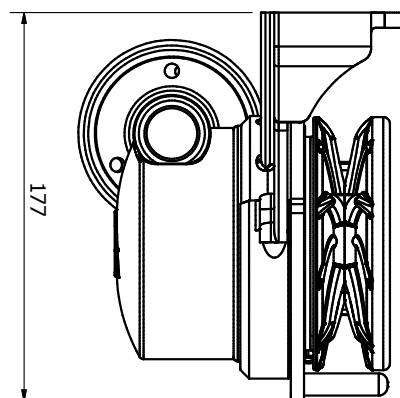
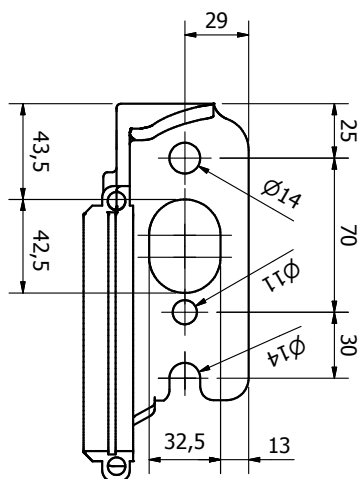
Side-Power Engbo supplies original woven anchor rope with a lead core. It is supplied in various lengths and dimensions.

## Safety line

Once the anchor is seated in the anchor bracket, it must be secured with the safety line supplied.

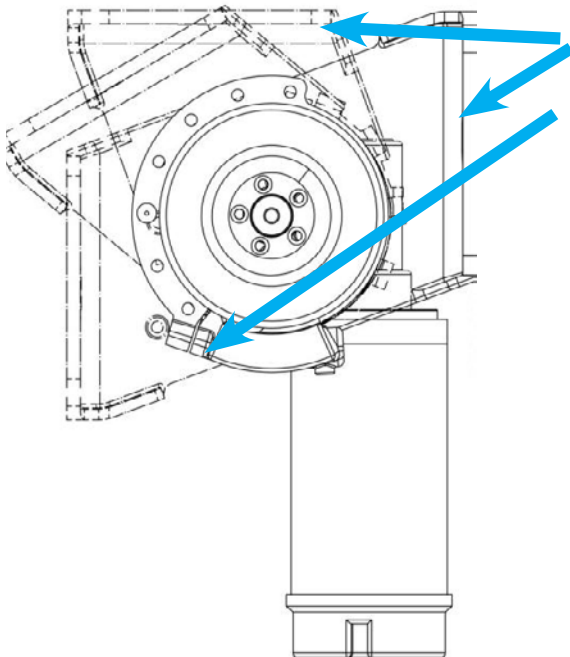


# Dimensions



## Mounting

- The mounting bracket for MIDI 201 allows for infinitely variable rotation in relation to the windlass gear/motor.
- The bracket for the rope guide/deflector can also be rotated independently of the gear/motor and mounting bracket.
- This allows for installing the windlass on surfaces with different angles in relation to the stern. It can be fitted on the inside of the stern, hanging below the deck or aft of cross bulkheads inside the boat.



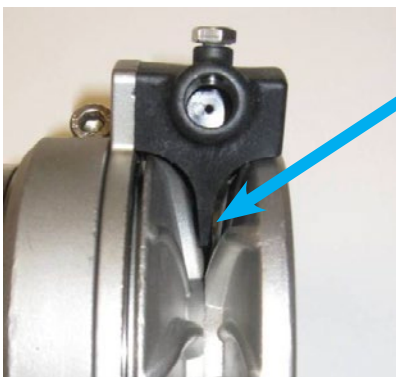
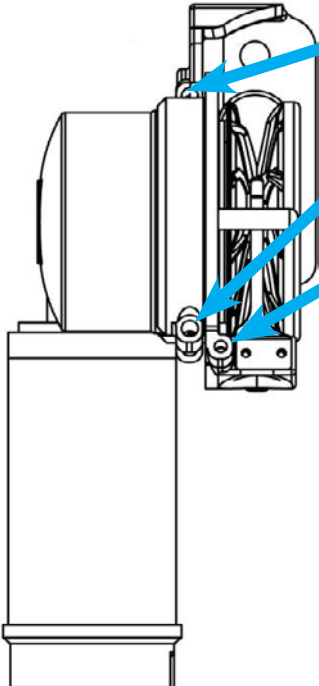
- Position the windlass mounting bracket by loosening the two screws fastening the bracket to the gear housing, rotate the windlass to the correct position and tighten the screws.

Note! Max. tightening torque 17 Nm.

- Adjust the windlass rope guide bracket in a corresponding manner by loosening the screw fastening it to the gear house. Rotate the bracket so the rope is guided down and away from bulkheads and components that prevent the rope from coiling correctly below the windlass.

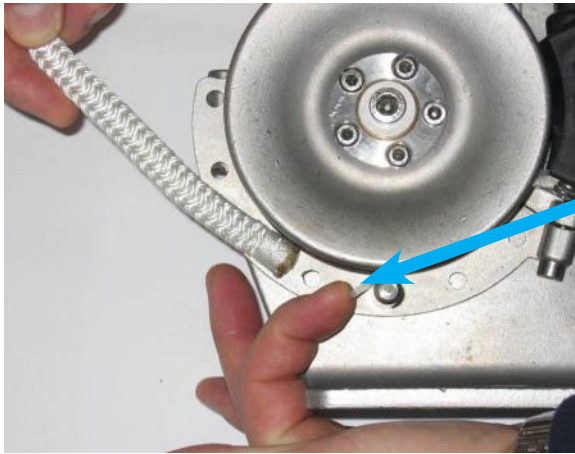
Note! Max. tightening torque 17 Nm.

NOTE! It is important that the rope is wound sufficiently around the line wheel to ensure a good grip on the rope. See separate section.



NOTE! The "line guide" must be located in centre of the line wheel. Also check this after having tightened the fixing screw.



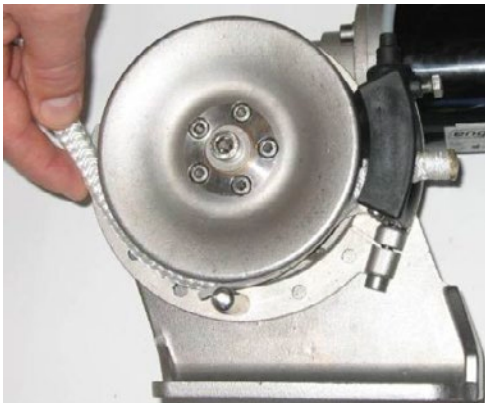


## Insert the rope into the windlass line wheel

Insert the rope into the line wheel between the line wheel and the rope guide. It may be easier if you bend the tip of the rope guide carefully.



Route the rope via the line wheel and out through the hole in the rope deflector.



When the windlass is connected, the rope can be pulled by pressing down on the up button on the touch panel or remote control.

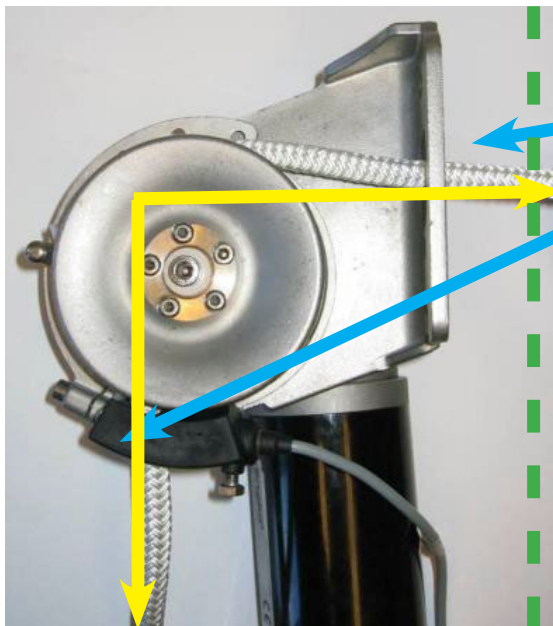
Note! Be careful to avoid injuring fingers.



When the tip of the rope has been pulled through the rope deflector, the rest of the rope can be pulled through using the windlass.

Make sure the windlass reels as intended.

**Remember!**  
When pulling in the rope for the first time, you must keep the rope tight, so the rope run correctly.



## Rope around the line wheel

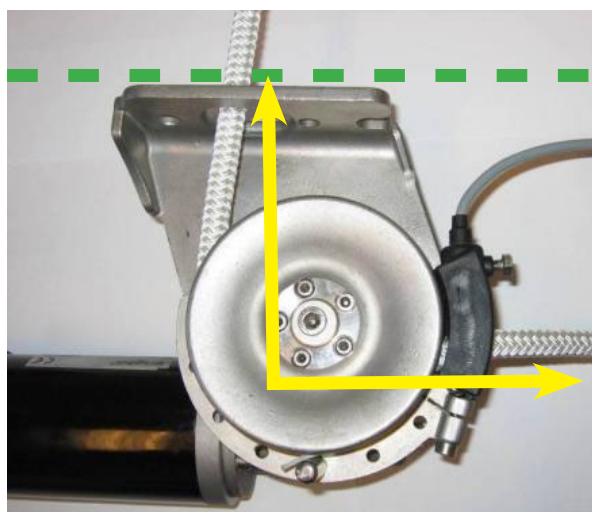
The mounting bracket for MIDI 201 allows for infinitely variable rotation in relation to the windlass gear/motor.

The bracket for the rope guide/deflector can also be rotated independently of the gear/motor and mounting bracket. See separate description.

This description is for installation of the windlass on a vertical cross bulkhead, on the inside of the stern, for example. The green broken line indicates the bulkhead that the windlass is fastened to.

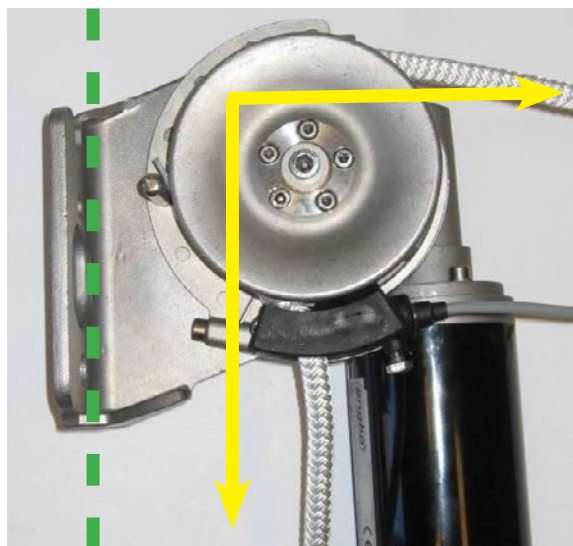
It is important that the length of rope that is in contact with the line wheel is sufficient to ensure good engagement/friction with the rope. See yellow arrows.

Note! Regardless of how the windlass is fastened to the boat, the angle between where the rope enters and leaves the line wheel must be minimum 90 degrees.



This illustration indicates the windlass fastened below deck, etc. The windlass mounting bracket has been rotated 90degrees counter-clockwise compared with the illustration above.

The rope comes from above and goes down into the line wheel. In this case, the rope guide must be adjusted to ensure the rope is pushed out horizontally from the windlass.

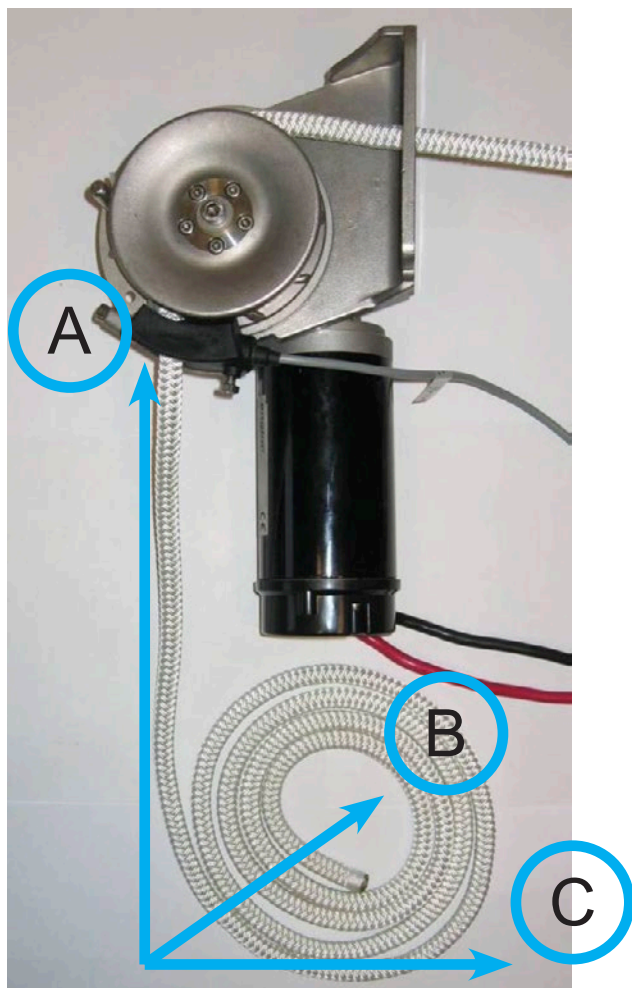


This picture shows the windlass installed on the back side of an inboard cross bulkhead. The windlass mounting bracket has been rotated 180degrees counter-clockwise compared with the illustration on top of this page.

NOTE! The rope is always pulled into the windlass from the right. This is because of the direction of rotation for the windlass line wheel.

NOTE! Make sure there is sufficient room to stow the rope below and next to the windlass.

**Remember!**  
When pulling in the rope for the first time, you must keep the rope tight, so the rope run correctly.



## Minimum rope clearance and height under windlass

In order for the windlass to function normally, there must be a sufficient volume/height below the windlass for stowing the rope when the anchor is up.

This table below shows recommended minimum height (A) below the windlass as well as width (B) and length (C) of the area used for stowing the rope.

Tau dimensjon.	A (cm)	B (cm)	C (cm)
10 mm x 30 m	35	30	30
12 mm x 30 m	35	30	30
12 mm x 50 m	40	35	35

NOTE! In case of installations where the rope is routed horizontally out of the windlass when the anchor is up, the relationship between A, B and C may vary. It is important that there is a sufficient volume to ensure that the rope is not forced into place below the windlass and cannot easily be pulled out by the line wheel.

## Installation of stop ring for auto stop

NOTE! Applies to MIDI 201 only

Under the rope guide there is an inductive sensor that signals auto stop when the anchor has been lifted all the way up. To activate the detector, two stop rings (included) are fitted on the rope. See procedure below.

The outer diameter of the stop ring must be as close to the outer diameter of the rope as possible. This is necessary in order for the inductive detector to be able to detect correctly.

In order to place the stop ring at the correct location on the rope, lift the anchor until the thimble eye is 25-50 cm below the rope roller (reel in at slow speed for the last section), and mark the rope with a marker at the location of the inductive sensor. The anchor is then reeled in at low speed to the desired final resting position. Mark the rope once more by the detector and fasten the stop rings by the marks.

These stop rings will be exposed to wear by the line wheel, especially during heavy loads, and must therefore be inspected regularly. Replace damaged stop rings if needed.

Recommended tools:

- Keeper ring pliers
- Pliers
- Auto stop rings (steel rings enclosed)





# Installation

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The enclosed steel rings (auto stop rings) are fitted in the locations where the windlass should slow down and then come to a full stop. Mark in advance; see procedure on the previous page.

Open the stop rings with the keeper ring plier.



Fit the ring over the rope.



Use the plier to pull the stop ring into place with the stop ring joint overlapping the opening and the ring fitted tightly around the rope.



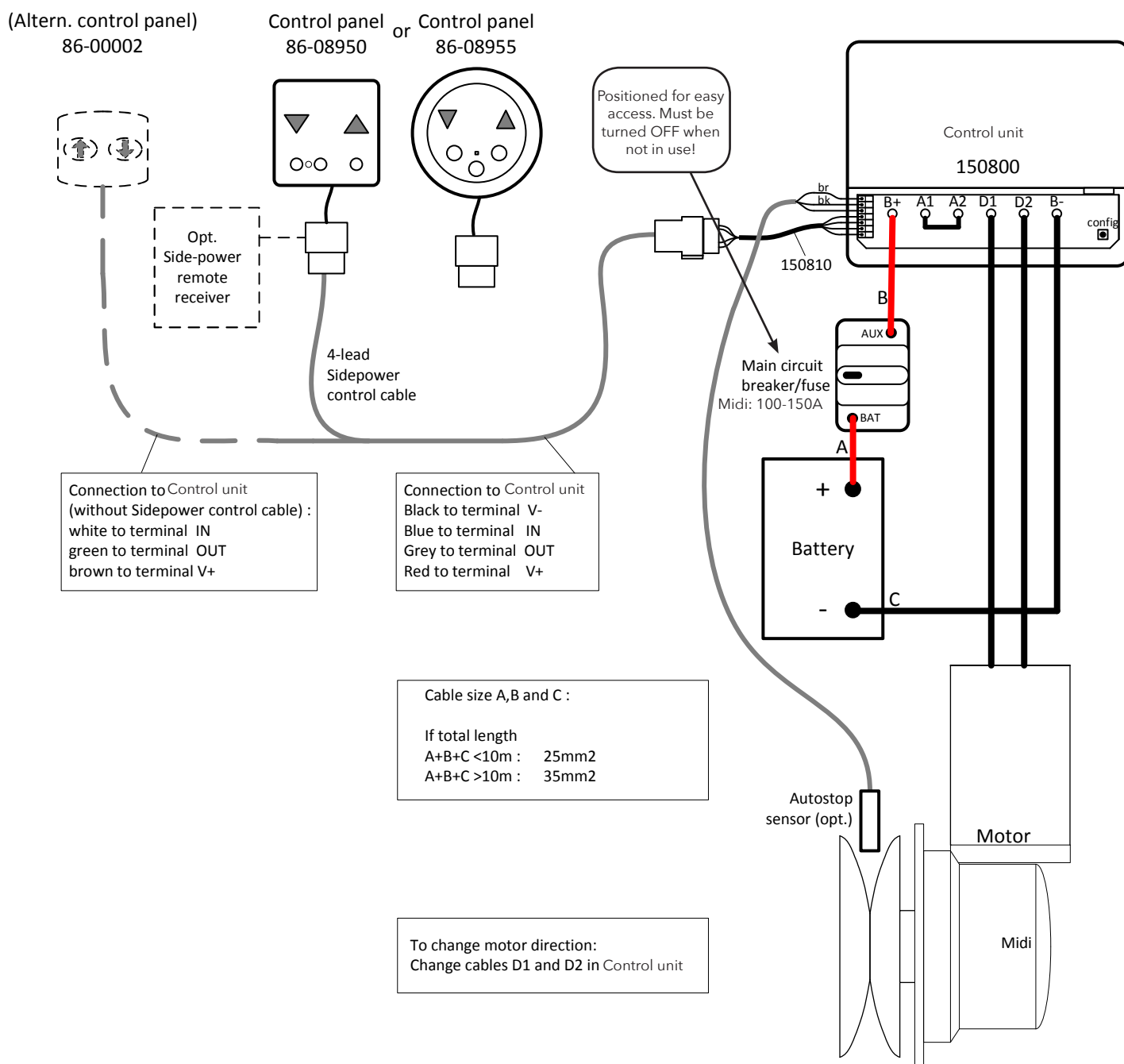
Force the ends into the rope with the pliers to ensure the stop ring does not slip on the rope.

A fitted stop ring should look like this with closed windings and the ends secured inside the rope.



Stop ring fitted and fastened tightly to the rope.  
Fasten the other stop ring in the same manner.

# Wiring diagram





86-08950



86-08955

## Electrical wiring

All kind of wiring and electrical fixing must be done with Main switch/miniature circuit breaker turned OFF and no battery cables attached.

### Connecting switch panel 86-08950 or 86-08955

- 1 pcs switch panel
- Cables are optional and come in various lengths.
- Cable is a 4-way Side-Power cable that easy can be attached to contact on controlbox unit.
- The cable must be attached to 150810 contact unit
- 150810 connection to control unit:
  - Black to terminal V-
  - Blue to terminal IN
  - Grey to terminal OUT
  - Red to terminal V+
- See wiring diagram or control panel manuals for more details
- Multiple panels can be fixed to the same control unit.



### Switch panel 86-00002

1. The panel comes with a self-adhesive surface, but if you prefer, you can use the corner holes to screw it firmly in position.
2. Drill an hole (dia. 18 mm) in the place where the panel is to be fitted.
3. Run the panel cable through the hole.
4. Remove the protection tape from the rear surface of the panel and fix the panel firmly to the surface.
5. Run the cable to the electronic control box.
6. Cut off any surplus cable and strip the ends of the three wires that are to be connected to the terminal clips as described in the connection diagram. (See wiring diagram).

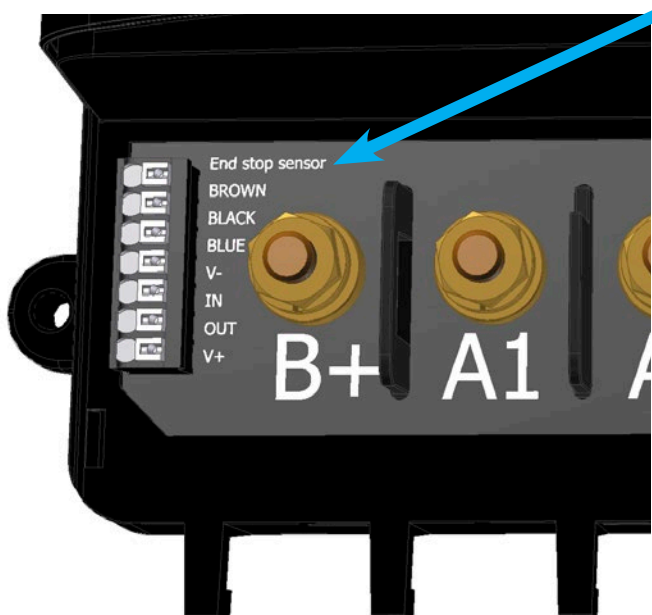
### Connecting switch panel 86-00002

- The 3-way cable is connected like this:
- White to terminal IN
- Green to terminal OUT
- Brown to terminal V+
- See wiring diagram for details

### Connecting the auto stop switch

Cables are connected like this:

- 4: Brown (BN)
- 5: Black (BK)
- 6: Blue (BU)







## Fitting control unit 150800

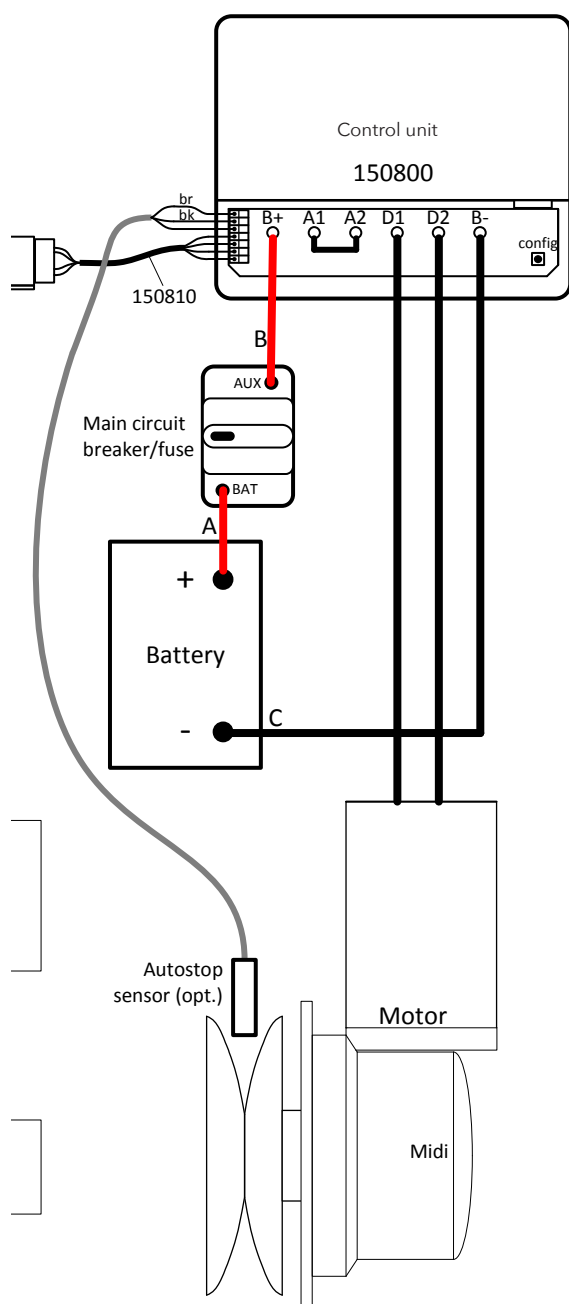
The unit is not water resistant and must be placed in a dry area close to the windlass motor.

Use ring terminals of good quality with the correct size for the selected battery cables. Bolt hole should be 6mm. Tighten the terminals to maximum 5Nm.

Pay attention to assemble the terminal spacers and washers in the correct order according to figure 1.

The unit has mounts that ensure space between the unit and its mounting surface. This to avoid condensation to enter the unit. It also ensures proper ventilation of the enclosure.

The control unit must be mounted with the cables protruding downwards.



## Connecting the motor and battery cables on Midi

Motor for windlass type Midi is delivered with cables fitted to the motor.

- Fit included copper link(A1-A2 LINK) between Terminal A1 and A2.
- Connect the red cable from the motor to the Terminal marked D1/M+.
- Connect the black cable from the motor to the Terminal marked D2/M-.
- Connect supply cable from battery negative to the Terminal marked B-.
- Connect supply cable from breaker/fuse to the Terminal marked B+.
- Connect beaker/fuse to battery main switch.
- See complete wiring diagram on page 6 for reference.
- Tighten all terminals properly, including A1 and A2, with a maximum torque of 5Nm. Over-tightening may damage the terminals.
- Leave breaker/fuse disconnected until the installation is completed.

**See control unit manual for configuring and more installation information.**



Fig1

## Main switch/miniature circuit breaker 119-00015(Midi 100-150A)

- MUST be used at all time in this installation
- Works as both MCB and main switch unit.
- The unit consists of one battery connection and one AUX connection. This is described on the unit. See wiring diagram for correct connection to battery and control box.
- Fig 1 shows unit switched ON
- To switch OFF, press red the button.
- Fig 2 shows unit switched OFF.
- To switch ON, move/press pin switch upwards as shwon on Fig 2.



### **WARNING!**

Wrong, improper use or wrong connection of such high currents components will generate a lot of heat which in worst case can cause fire.



OFF button

Fig2

## Winter storage

- Remove the rope from the windlass before every period of winter storage. Soak it in a mild soap solution overnight. Then wash it in water and rinsing fluid to rinse out all the salt residue and dirt. This will keep the rope flexible for many years. At the same time, check the wire thread auto stop indicators and replace them if necessary.
- Before winter storage, spray the windlass and all electrical points and connections with a moisture repellent spray.
- Make sure that the windlass is protected against snow and water during winter storage.
- Do not wrap the windlass, as this may cause condensation to form during winter storage.
- It is also a good idea to wash the inside of the rope box and remove seaweed, dirt, etc.

## Changing battery in the remote control

- See own manual

	<b>Side-Power MIDI 201</b>
Motor output, nom.	12V DC/600W
Rope	Braided lead rope diameter 12 mm, 30/50 m Weight: 7.2 kg/12 kg Breaking load: 1600 daN
Pulling power (Electronically governed)	Up to 200 kg
Pulling speed	15-30m/min aprox 20m/min ved 30kg load
Power consumption	10-200A aprox 40A ved 30kg load
No-load current	< 0,1A ved 12V
Recommended fuses	100-150A
Recommended min. battery capacity	12V/75 Ah
Weight: windlass with motor and cables	9,8kg
Weight: electronic unit	aprox 1kg
Auto stop function	Yes
Recommended anchor/ weight	7.5-16 kg Bruce, plate or Side-Power
Recommended boat size	Max. 7.6 m (25 feet)
Fitting/mounting	See the separate descriptions for the individual models
Standard equipment	Windlass and basic mounting parts
Supplementary equipment	Anchor (Multiple types) Anchor bracket (Multiple types) Mounting brackets Battery cable Lead rope or chain Fuse w/holder Hull conduit for rope or chain Wireless remote control Switch panel Cables Control box unit

# Troubleshooting

**Note! Main switch/braker must be disconnected whenever working on the windlass mechanical parts**

FAULT SYMPTOM	FAULT CODES/STATUS	SOLUTION
<b>Windlass does not operate</b>	"Power" LED not lit	Check: Main switch/breaker is engaged. Check battery fuses. Visually inspect cables and verify that terminals are tight. Measure battery voltage.
	"Power" LED lit	Turn on panel / remote control (see user manual) See below:
<b>Windlass only runs for 0,5 seconds when pressing "IN"</b>	None	Check control panel connections. Signals for "IN" and "OUT" might be swapped.
<b>When pressing "OUT" free fall is not engaged. Or: When pressing "IN", motor is running but gypsy is not turning</b>	None	Swap motor cables D1 and D2 on the control unit
<b>Windlass has poor performance</b>	"Low voltage"	Voltage has dropped below 9V Check batteries.
	None	Measure battery voltage while operating the windlass. I voltage measure below 11V/22V, allow batteries to charge. If the battery voltage is acceptable, measure voltage on the motor terminals, cable voltage drop should be less than 1V when motor is running.
<b>Windlass releases anchor, but do not wind in</b>	None	Check that end stop sensor is not active (Indicated by "End Stop" LED on control unit or LED built into the sensor.) Check sensor connections on the control unit. Sensor LED should not be lit if no metal object is present in front of it.
<b>Windlass wind past endstop</b>	None	Check that the end stop wire wound around the rope is intact. Pull the rope with end stop wire over the end stop sensor and verify that («End Stop» LED light up) Adjust sensor closer to the rope if necessary.
<b>Windlass releases anchor, but stops immediatly when pressing "IN"</b>	None or "Low voltage"	If the battery is in poor condition it might measure 12/24V when windlass is not in use and still experience a significant voltage drop when the motor starts (such voltage dips might be difficult to measure) This type of voltage drops can lead to false triggering of the end stop sensor.
<b>Windlass stops during operation</b>	"Motor Overload"	Current limitation has triggered. This means that the windlass is overloaded. Try again with reduced load. If this fault is triggered while the windlass is lightly loaded, it might indicate a mechanical failure.
	"Controller Overtemp"	The control unit temperature sensor is too warm. Let the controller cool down, and try again.
	"Motor Overtemp"	The motor is too hot. The windlass controller calculates motor temperature depending on load and run time. Let the windlass cool down.
	"Controller Overload"	This fault indicates that the internal protection of the controller has triggered. This can be caused by excessive surrounding temperature and high load
	"Runtime Exceeded"	Signal "OUT" or "IN" have been continuous for more than 5 minutes. This is a protection against possible faulty control signals. Re-activation is possible.
<b>Abnormal noise during operation</b>		The windlass must be serviced.
<b>Windlass operates, but rope is not wound in</b>		The rope can slip in the gypsy if the windlass is mounted incorrectly.
<b>Anchor is not released</b>		The anchor might not release from the bracket if mounted incorrectly.

**If the windlass still does not work normally after you have tried these procedures, the fault is in the windlass itself. Contact your nearest dealer.**

# Operations and functions

OPERATIONS AND FUNCTIONS OF THE WINDLASS CONTROL UNIT 150800					Form is covering both chain and rope windlasses. Where there is a difference this is described
Operation/operation Down = Out and Up = Inn	Incident	Description	Comment	Limitation	
<b>Main power to the windlass control unit is turned on</b>	Check powerup. Fan runs 1 sec. Possibly, previously selected windlass mode will still be enabled. Error codes reset.	Normal situation by anchoring for transit or departure after anchoring.	Note! Windlass control unit do not "remember" where anchor is located, after being unpowered. Can also be used for troubleshooting.	Since windlass control unit do not remember where the anchor is located, will a normal "inn"/pulling of anchor run not be possible after powerup.	
<b>"Out" is pressed. Or "out" is pressed and held</b>	Rope windlass: Freefall activated (you can hear the windlass motor run for 1 sec). Motor stops after 1 sec whether "out" held in. Chain windlass: "Out" is held as long as you wants to run out anchor.	Rope is released and anchor can drop to the bottom. When the anchor reaches the bottom, the rope is still disengaged. The function is completed profundity of 'out' button is pressed or held down.	Anchor can be dropped at the desired position, and the boat can sail to final position before freefall deactivates by pressing "up". NB! Depending on the anchor dip angle of the bracket, can some installations require help to release the anchor.	"Do not press "up"" before anchor has reached the bottom. NB! Motor always has a straight flow shift resting time of 1 second."	
<b>"inn" is pressed briefly</b>	Anchor pulled slightly in. Rope is no longer disengaged.	Used to adjust the anchor or to lock the rope.	If you want to "attach" anchor, rope should be attached to the boat (Mooring line or similar.)	Caution! When setting anchor, it may be difficult to control applied load. Low drift when releasing the rope (boat and rope is not in line) can also cause heavy loads on the anchor rollers and fastenings. Use a suitable mounting point on the boat. Especially under rough conditions.	
<b>"inn" is pressed and held</b>	The windlass starts pulling the anchor	The windlass goes from 0-100% speed in 3 sec and continues until the button is released or first end stop is activated.	Pull Speed: 20-25 m / min depending on load	Long and heavy run on motor or short nearly blocked run can cause the protection device to stop the windlass. Other recorded errors can also cause stops. (Error Codes is shown under the cover on the control unit, see manual for more information).	
<b>First end stop is detected (NB end stop detected during run)</b>	Windlass stop	Windlass stops. From this point the anchor can be released again or pulled up (windlass will be running at reduced speed if you continue running towards second end top)	In most cases place the end stop to anchor approx 1 meter below the water surface. Then you can carefully pull inn the anchor in order to "wash" the anchor before it is pulled into inner position	Continue pulling inn: Maximum allowed power consumption is limited to protect fittings, brackets, platform and windlass.	
<b>Second end stop is detected (NB end stop detected during run)</b>	Windlass stop	From this point it is only possible to drop anchor if the main power is cut. (Control unit is reset)	This end stop should be positioned so the anchor reaches correct position in the bracket and the rope is tight.	Not possible to pull inn.	
<b>Double-tap, with hold on second press 2</b>	(2) Up slowly / anchor inn (1) Normal inn	Windlass runs with 40% speed (approximately 8 m / min)	This is the only way to pull up the rope/anchor directly after powerup. (Unpowered after overnight)	Reduced power consumption. Maximum running time on reduced speed = 30sec.	
	(1) Firmware version 1.007				
	(2) Firmware version 1.008				









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