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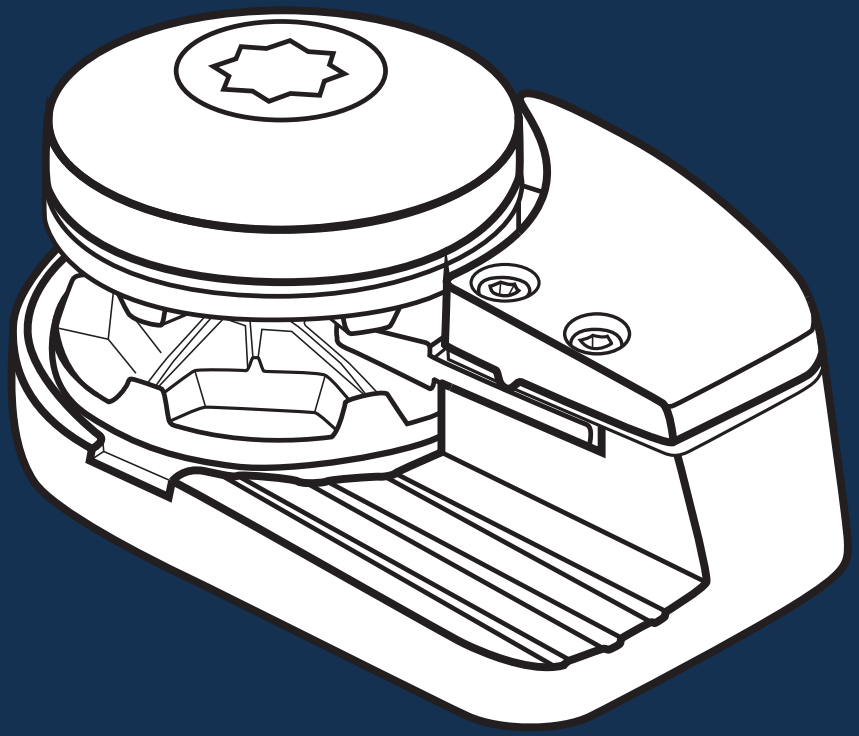
PACIFIC WINDLASS SERIES

Owner Manual for 600, 900, 1000 & 1500 Models

Vertical Windlasses

Single Gypsy for Chain or Rope-and-Chain Combination



- → FO3931 (600 Watts)
- → FO3287 (900 Watts)
- → FO3288 (1000 Watts)
- → FO3444 (1500 Watts)

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www.five-oceans.com info@five-oceans.com

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1. INTRODUCTION

Thank you for purchasing the Pacific Windlass Series. Our company is committed to engineering anchoring systems that not only satisfy rigorous performance and safety requirements but are also designed with a style and finish that enhances the aesthetic profile of your vessel.

2. GENERAL DESCRIPTION

The Pacific Series is a powerful and compact, heavy-duty windlass designed for nautical use and made for the rigid conditions of the sea. The housing is constructed from high-polished 316 stainless steel. The motor/gear is mounted under the deck, offering smooth and silent operation. It is vertically installed, has an adjustable clutch, and works with a chain only or a rope/chain combination.

3. KEY FEATURES

- **High-Speed Operation**
  Part of the high-speed series of windlass models.
- **Durable Construction**
  Full 316 stainless steel housing with a mirror-polished finish.
- **Powerful & Compact**
  Designed for maximum power in a compact footprint.
- **Flexible Installation**
  Ideal for horizontal mounting, especially on thick decks or where under-deck space is minimal.
- **Adjustable Clutch**
  Allows for precise control during operation.
- **Versatile Gypsy**
  Supports either chain-only or a rope/chain combination.

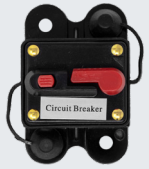
4. PACKAGE INCLUDES

Pacific 600 & 900 Models


Anchor Windlass (2-Wire Motor)


Control Box (4-Wire Solenoid)

Foot Switch



Circuit Breaker

Rocker Switch


Clutch Handle

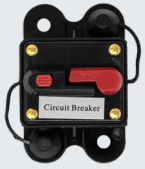

Mounting Template

Pacific 1000 & 1500 Models


Anchor Windlass (3-Wire Motor)


Control Box (3-Wire Solenoid)

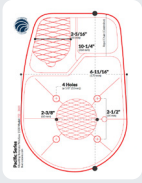
Foot Switch



Circuit Breaker

Rocker Switch


Clutch Handle


Mounting Template

5. IMPORTANT SAFETY WARNINGS

→ Intended Use

Windlasses are designed to deploy and retrieve anchors. DO NOT use this equipment for other purposes, such as towing, mooring, or lifting personnel.

→ Secure the Rode

Always secure the anchor rode (chain/rope) to a cleat, bollard, or chain stopper when anchored or underway. The windlass is not designed to withstand the static loads of an anchored vessel.

→ Operational Hazard

Keep hands, feet, hair, and loose clothing clear of the windlass, gypsy, and anchor rode while it is operating.

→ Supervision

Do not operate the windlass without a clear line of sight to the unit and the anchor.

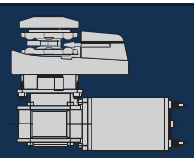
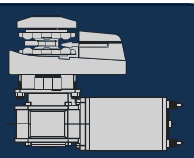
→ Electrical System

Disconnect power to the windlass at the main breaker or isolator switch when not in use, especially while underway or when performing maintenance.

6. TECHNICAL DATA

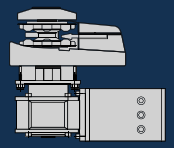
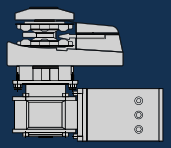
6.1. PACIFIC 600 & 900 MODELS TECHNICAL DATA

The following table details the key technical specifications for the FO3931 and FO3287 models. This data is essential for correct model selection, electrical planning, and ensuring system compatibility.

Parameter	 FO3931 Model Pacific 600	 FO3287 Model Pacific 900
Motor (W)	600 Watts	900 Watts
Voltage (V)	12 V	12 V
Current Draw (A)	55 A	75 A
Max. Working Load	330 lbs 150 kg	484 lbs 220 kg
Max. Power Pull	990 lbs 450 kg	1452 lbs 660 kg
Drop Speed	26 m/min 85 ft/min	40 m/min 131 ft/min
Retrieval Speed	21 m/min 69 ft/min	20 m/min 66 ft/min
Weight	20 lbs 9.1 kg	20 lbs 9.1 kg

6.2. PACIFIC 1000 & 1500 MODELS TECHNICAL DATA

The following table details the key technical specifications for the FO3288 and FO3444 models. This data is essential for correct model selection, electrical planning, and ensuring system compatibility.

Parameter	 FO3288 Model Pacific 1000	 FO3444 Model Pacific 1500
Motor (W)	1000 Watts	1500 Watts
Voltage (V)	12 V	12 V
Current Draw (A)	85 A	125 A
Max. Working Load	550 lbs 250 kg	1067 lbs 485 kg
Max. Power Pull	1650 lbs 750 kg	2640 lbs 1200 kg
Drop Speed	40 m/min 131 ft/min	40 m/min 131 ft/min
Retrieval Speed	19 m/min 62 ft/min	16 m/min 52 ft/min
Weight	42 lbs 19 kg	44.8 lbs 20.3 kg

7. GYPSY & RODE OPTIONS (ROPE/CHAIN COMPATIBILITY)

The Pacific Series windlass offers flexibility by accommodating either chain-only or a rope/chain combination rode. While both are supported, we always recommend a chain-only configuration for optimal performance and reliability, provided your application allows for it.

Please refer to the table below for specific gypsy and rode compatibility.

Pacific 600, 900, 1000 & 1500 Models
Gypsy & Rode Options (Rope/Chain Compatibility)

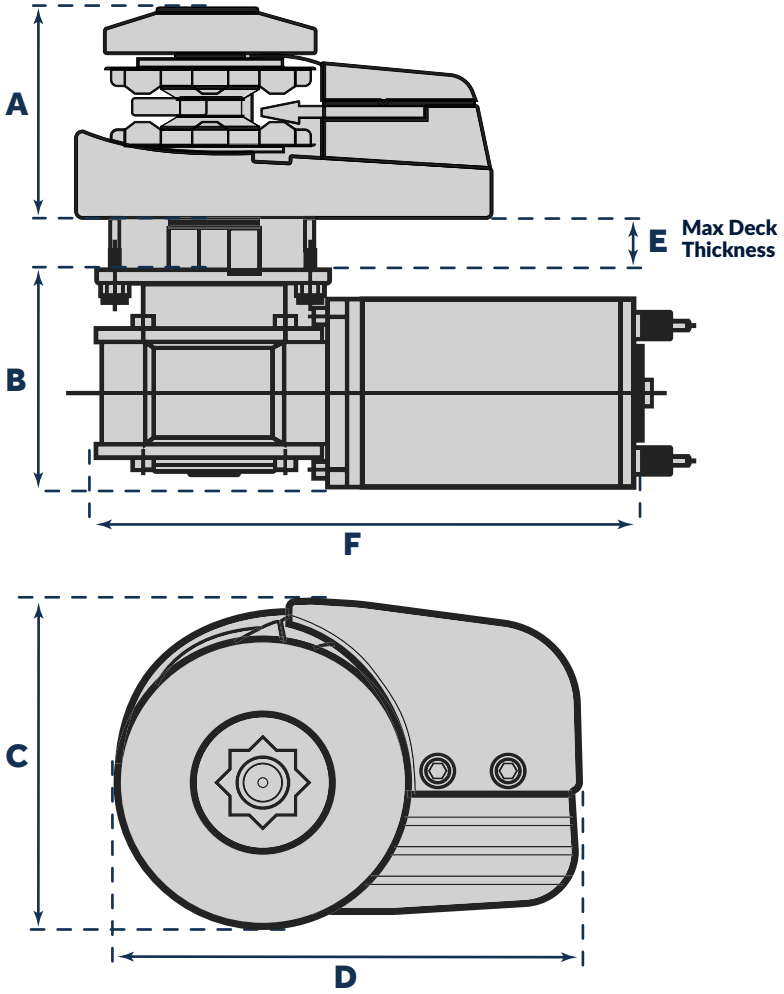
Windlass Model	Chain Type		Rope Type
FO3931 **Pacific 600**	**7mm - 1/4"** 7mm DIN 766	1/4" HT G4	3-Strand 1/2" (12mm)
FO3287 **Pacific 900**	**7mm - 1/4"** 7mm DIN 766	1/4" HT G4	3-Strand 1/2" (12mm)
FO3288 **Pacific 1000**	**8mm - 5/16"** 8mm DIN 766	5/16" HT G4	3-Strand 9/16" (14mm)
FO3444 **Pacific 1500**	**10mm - 3/8"** 10mm DIN 766	3/8" HT G4	3-Strand 5/8" (16mm)

8. DIMENSIONAL DRAWINGS

Pacific 600 & 900 Models Dimensions

Refer to the technical diagrams for precise measurements for installation.

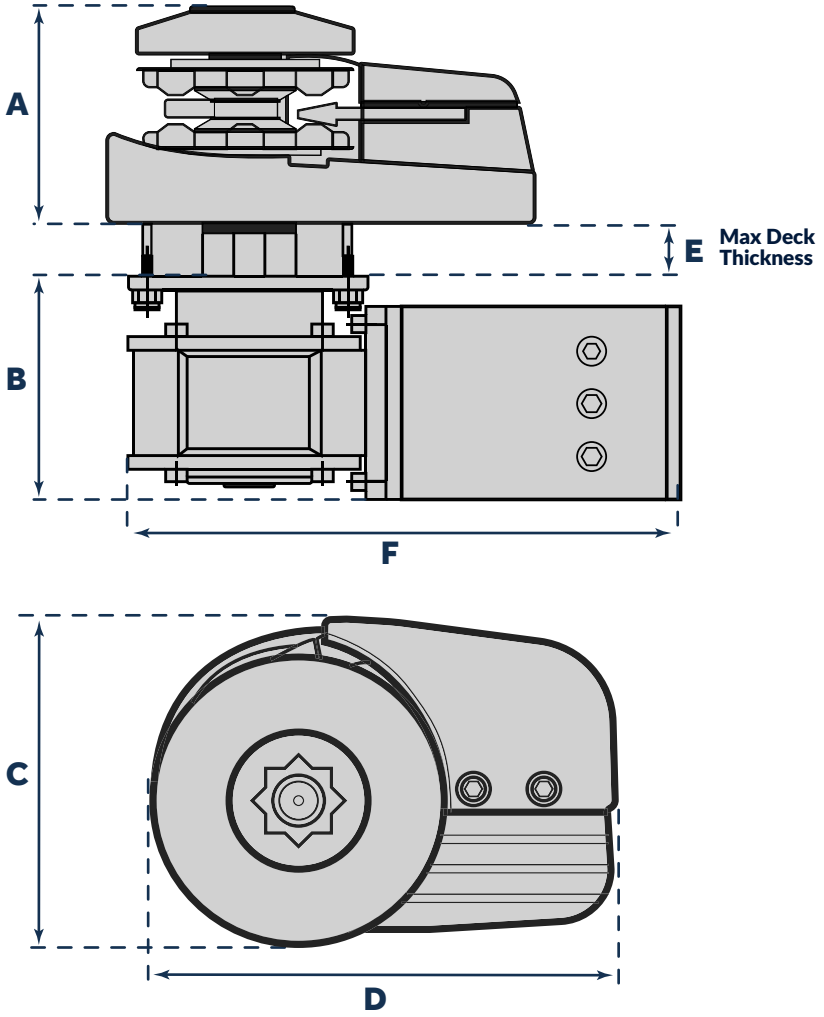
A	3-5/16 inches (84 mm)	**B**	4-1/8 inches (104 mm)	**C**	4-5/8 inches (118 mm)
D	1-1/16 inches (179 mm)	**E**	1-1/4 inches (32 mm)	**F**	9-5/16 inches (236.5 mm)



Pacific 1000 Models Dimensions

Refer to the technical diagrams for precise measurements for installation.

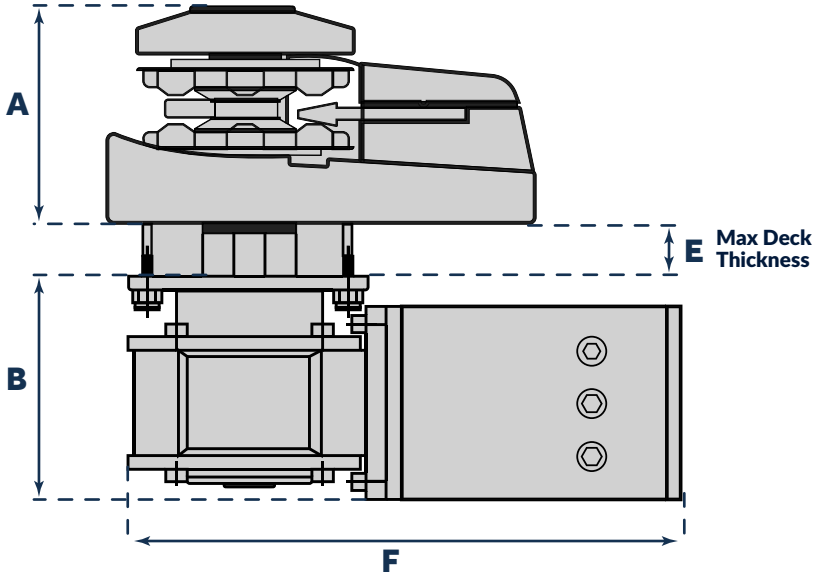
A	4-1/8 inches (104 mm)	**B**	5-9/16 inches (142 mm)	**C**	6-1/16 inches (154 mm)
D	8-3/4 inches (223 mm)	**E**	2 inches (50.8 mm)	**F**	12 inches (306 mm)

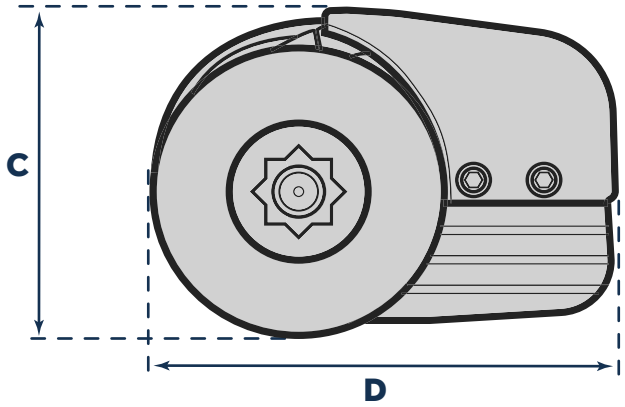


Pacific 1500 Models Dimensions

Refer to the technical diagrams for precise measurements for installation.

A	4-1/16 inches (102.5 mm)	**B**	5-9/16 inches (142 mm)	**C**	6-5/8 inches (168 mm)
D	10-1/16 inches (255 mm)	**E**	2 inches (50.8 mm)	**F**	12-1/16 inches (306 mm)





9. INSTALLATION GUIDE

The Pacific Series is specially designed for boats with adequate space underneath the deck. It features an easy vertical installation, an adjustable clutch, and is compatible with both chain-only or rope/chain combination rodes.

Pacific 600 & 900 Models Application:
Suitable for boats from 20 ft to 45 ft, depending on the vessel's design and displacement.

Pacific 1000 Model Application:
Suitable for boats from 32 ft to 55 ft, depending on the vessel's design and displacement.

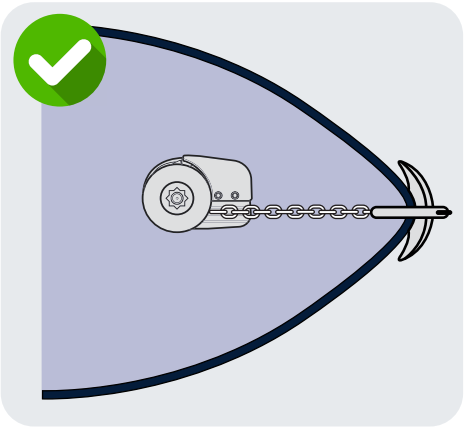
Pacific 1500 Model application:
Suitable for boats from 40 ft to 65 ft, depending on the vessel's design and displacement.

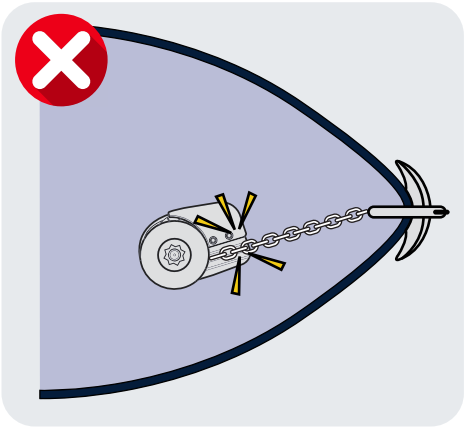
Improper installation remains the most common cause of windlass failure. Therefore, installation of the Five Oceans windlass must be performed by a qualified marine technician to ensure safety and reliability.

9.1. LOCATION

Alignment

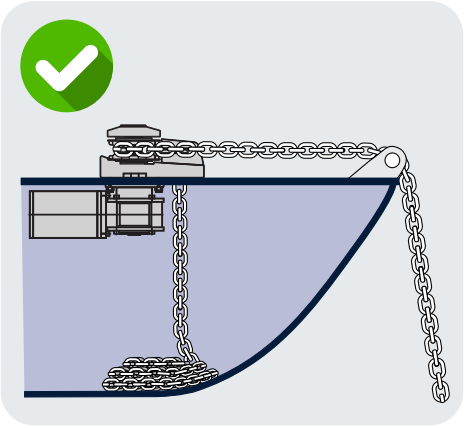
The windlass must be installed so that the anchor rode (chain/rope) runs horizontally from the gypsy to the bow roller.

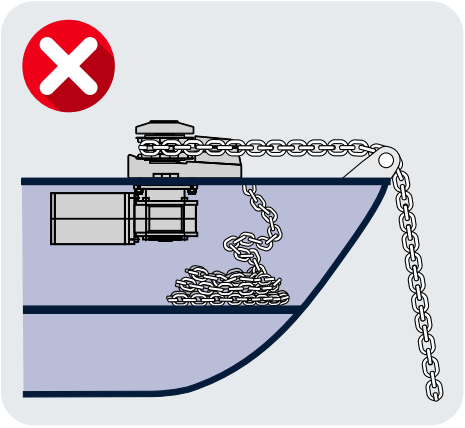




→ Anchor Locker Fall

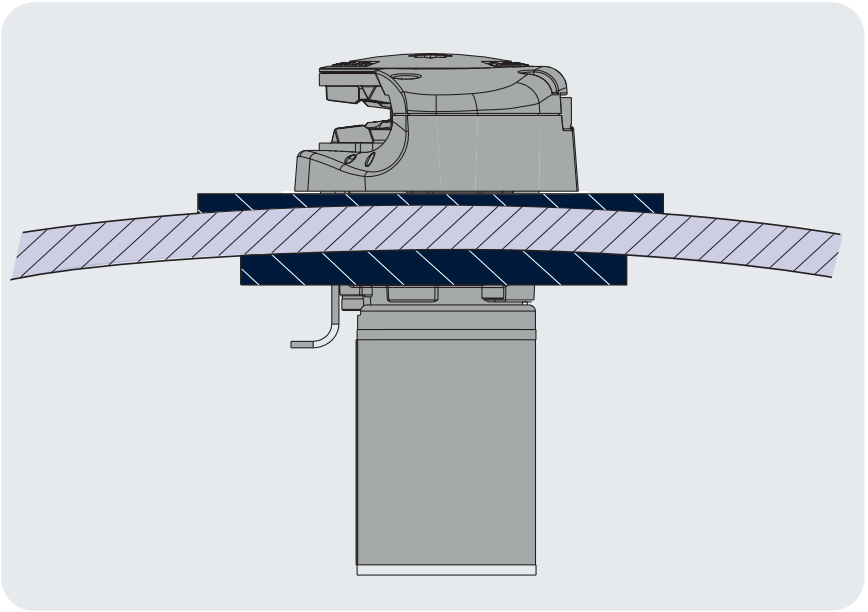
There must be enough vertical space in the anchor locker for the rode to fall freely. This prevents the rode from piling up and jamming the windlass.





→ Deck Surface

The deck must be flat and strong enough to support the maximum pull loads of the windlass. Ensure that the upper and lower surfaces of the deck are as parallel as possible. If this is not the case, compensate for the difference appropriately.



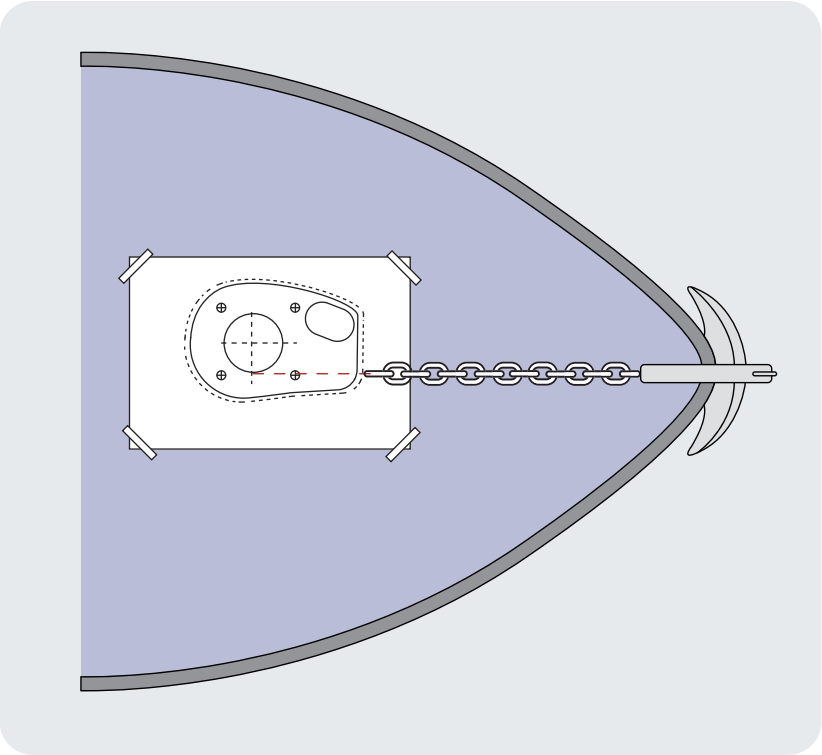
9.2. BASIC REQUIREMENTS FOR INSTALLATION

- High-Quality Marine Sealant
- Electric Drill with Bit
- Hex Wrench

9.3. MOUNTING PROCESS

→ Template

Use the mounting template provided to mark the position of the mounting bolt holes and the pass-through hole for the anchor rode.



→ Inspection

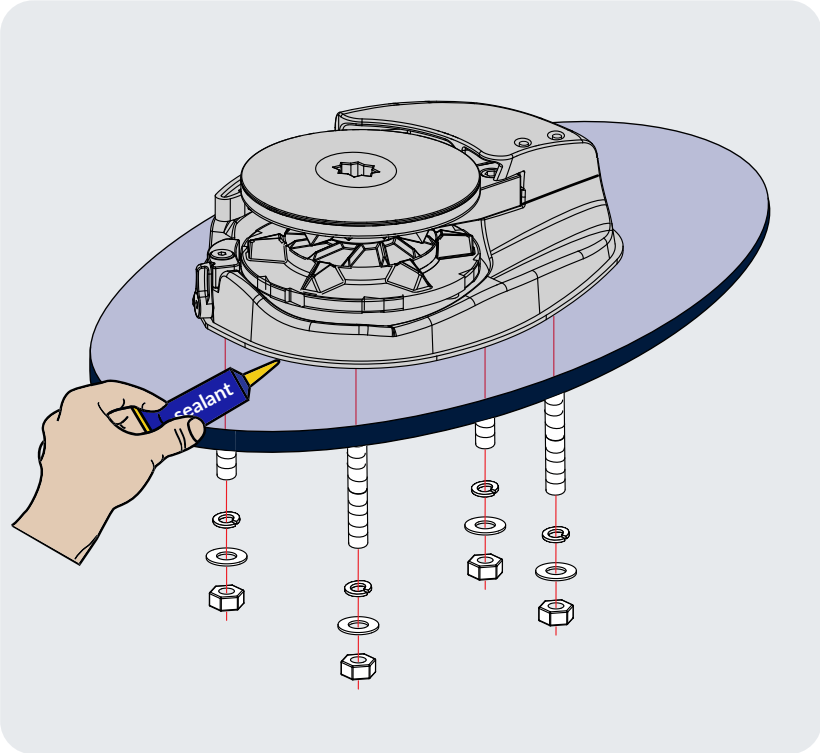
Before drilling, check for obstructions beneath the deck (wires, bulkheads).

→ Drilling

Drill the holes according to the template specifications.

→ Sealing

Apply a high-quality marine-grade sealant generously to the base of the windlass and around the bolt holes before fastening. This is critical to prevent water intrusion into the deck core.



→ Fastening

Tighten the nuts and washers on the bolts evenly.

9.3. ELECTRICAL INSTALLATION

To ensure operational safety and full compliance with marine standards, Five Oceans strongly recommends that the Pacific windlass series be professionally installed. All electrical wiring, in particular, must be completed by a qualified marine technician.

The cable table provides recommended cable sizes based on the total cable length required from the battery, following the cable routes. It is essential that the anchor windlass be wired with cables of sufficient gauge, as suggested in the table below:

→ Circuit Breaker

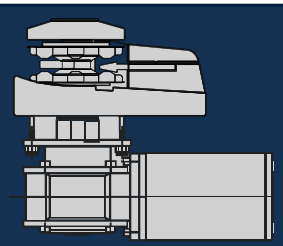
The included circuit breaker must be installed in a dry, readily accessible location close to the battery. In the event of an overload, the breaker will trip; it must be manually reset to restore power to the windlass.

→ Wiring and Voltage Drop

The performance of your windlass is directly dependent on the correct cable size relative to the length of the wiring run. To ensure the motor receives adequate power, the total voltage drop over the complete wiring circuit must not exceed 10%.

Please do not confuse cable length with the length of the vessel.

For optimal performance and safety, adhere to the following electrical installation guidelines:



Wire Gauge Selection

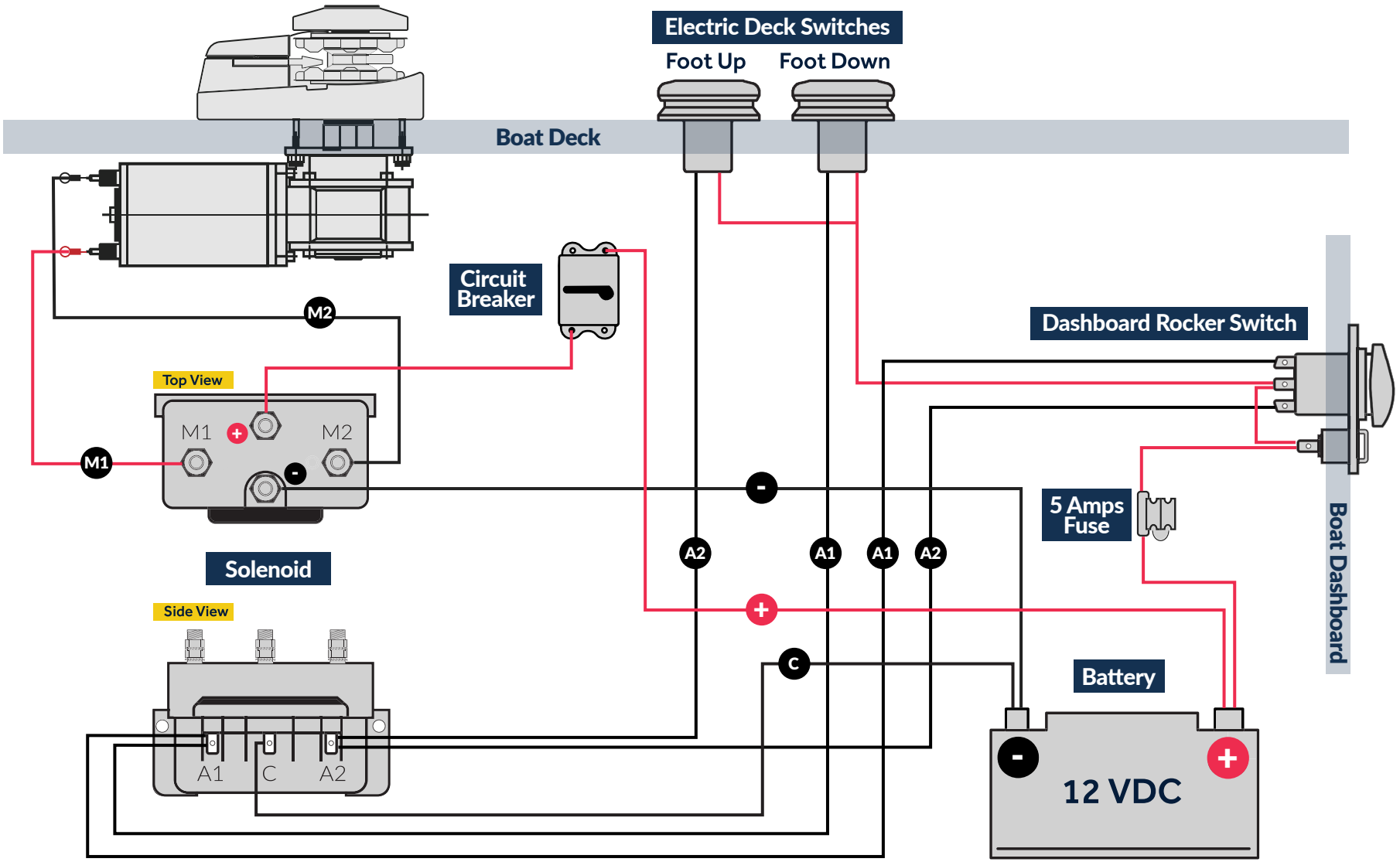
Determining the appropriate wire gauge based on the electrical load and the length between the battery, solenoid, and motor, to ensure minimal voltage drop and compliance with marine wiring standards.

Windlass Model	Battery-to-Solenoid or Solenoid-to-Motor Length of Cable Run		Circuit Breaker Size	Switches	
	Up to 24 Ft (8 M)	Up to 50 Ft (15 M)		Fuse	Wire Gauge
FO3931 Pacific 600 Motor: 600W - 12VDC	16 mm^2 6 AWG	25 mm^2 4 AWG	60 Amps	5 Amps	2.5 mm^2 14 AWG
FO3287 Pacific 900 Motor: 900W - 12VDC	25 mm^2 4 AWG	35 mm^2 2 AWG	80 Amps	5 Amps	2.5 mm^2 14 AWG
FO3288 Pacific 1000 Motor: 1000W - 12VDC	25 mm^2 4 AWG	35 mm^2 2 AWG	100 Amps	5 Amps	2.5 mm^2 14 AWG
FO3444 Pacific 1500 Motor: 1500W - 12VDC	35 mm^2 2 AWG	50 mm^2 1 AWG	135 Amps	5 Amps	2.5 mm^2 14 AWG

9.4. PACIFIC 600 & 900 MODELS ELECTRICAL WIRING DIAGRAM

The following diagram details the complete electrical circuit for the windlass installation. Ensure all cable gauges and connection points match this schematic to prevent system failure or electrical hazards.

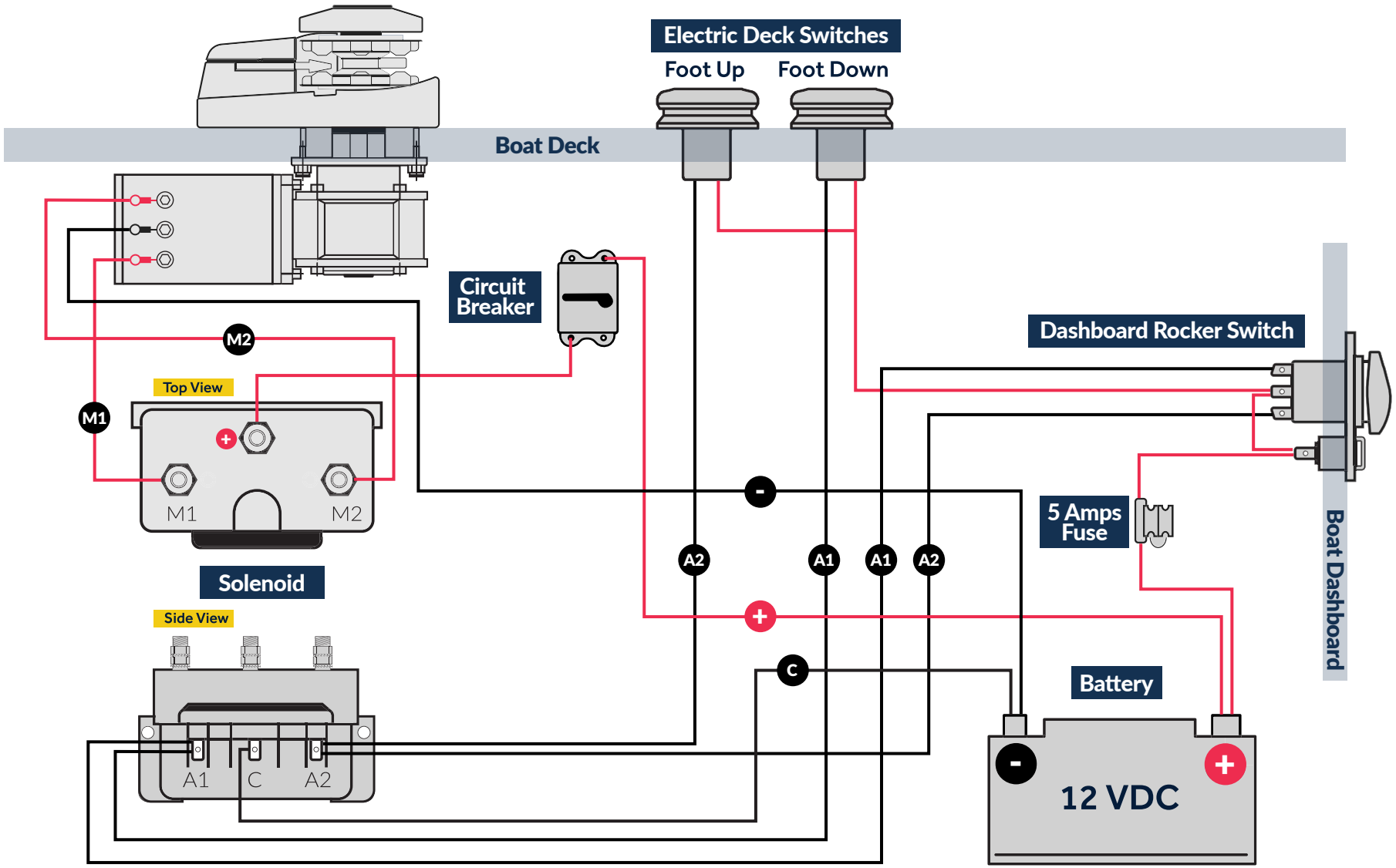
Electrical Wiring Diagram (2-Wire Motor)



9.5. PACIFIC 1000 & 1500 MODELS ELECTRICAL WIRING DIAGRAM

The following diagram details the complete electrical circuit for the windlass installation. Ensure all cable gauges and connection points match this schematic to prevent system failure or electrical hazards.

Electrical Wiring Diagram (3-Wire Motor)



10. OPERATING INSTRUCTIONS

10.1. ANCHORING (DEPLOYING THE ANCHOR)

1. Start the vessel's engine. This ensures the battery is charging and can handle the windlass load.
2. Engage the windlass main breaker.
3. Release the chain stopper or remove the rode from the cleat.
4. Press the "DOWN" switch.
5. Once the desired length of rode (scope) is out, stop the windlass.
6. **IMPORTANT!** Secure the chain/rope to a chain stopper or cleat. Do not leave the vessel's load pulling directly on the windlass.
7. Disengage the main breaker.

10.2. WEIGHING ANCHOR (RETRIEVING THE ANCHOR)

1. Start the vessel's engine.
2. Engage the main breaker.
3. Press the "UP" switch.
4. If the anchor is stuck, do not use the windlass to pull the boat free. Slowly motor the boat forward using the engine to take the strain off the rode while retrieving the line. The windlass is designed to lift the anchor, not to pull the boat.
5. Once the anchor is secured in the bow roller, secure the chain/rope firmly.
6. Disengage the main breaker.

10.3. RECOMMENDATIONS FOR EFFECTIVE ANCHORING

1. For a secure anchorage, maintaining proper catenary is essential, as it ensures that the load on the anchor is applied as close to horizontal as possible. Correct catenary is achieved by deploying a length of chain, or a chain/rope rode 5 to 10 times the water depth.

Apply the correct scope ratio:

→ **5:1 (Calm)**

For short stops in very calm weather.
15 ft depth x 5 = 75 ft of rode.

→ **7:1 (Standard)**

The recommended minimum for most conditions and for anchoring overnight.
15 ft depth x 7 = 105 ft of rode.

→ **10:1 (Heavy Weather)**

For strong winds or rough seas.
15 ft depth x 10 = 150 ft of rode.

Rule: When in doubt, let more out. Too much scope is far safer than too little.

2. **IMPORTANT!** Once deployed, secure the chain firmly to a cleat, bollard, or chain stopper. The windlass is not designed to take the load of the boat.

3. Use your engine in a gentle reverse to "set" the anchor into the seabed.

4. Use the boat's engine to gently motor forward and assist the windlass during anchor retrieval.

11. MAINTENANCE

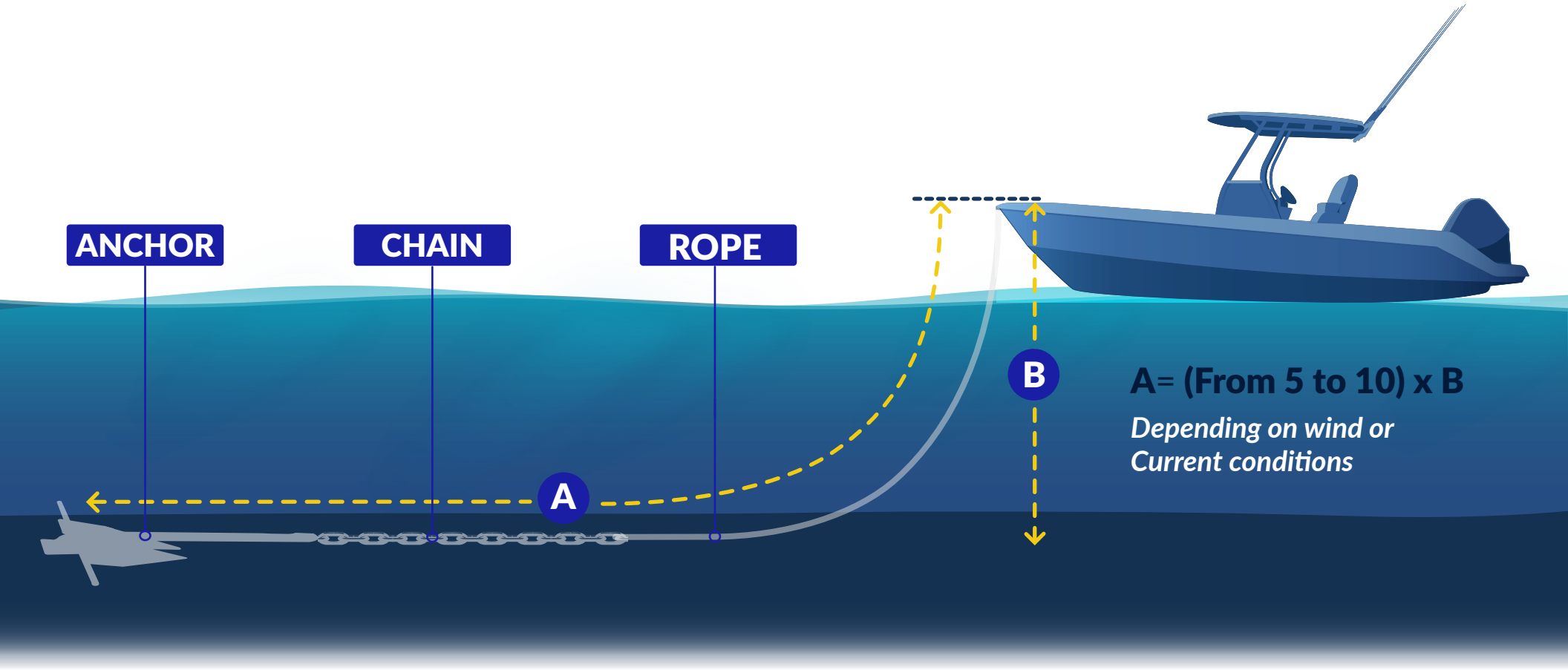
Regular maintenance is vital for the longevity and safe function of your windlass.

→ **Rinse**

Wash the windlass and anchor rode with fresh water to remove salt deposits, which cause corrosion.

→ **Polish (Occasional)**

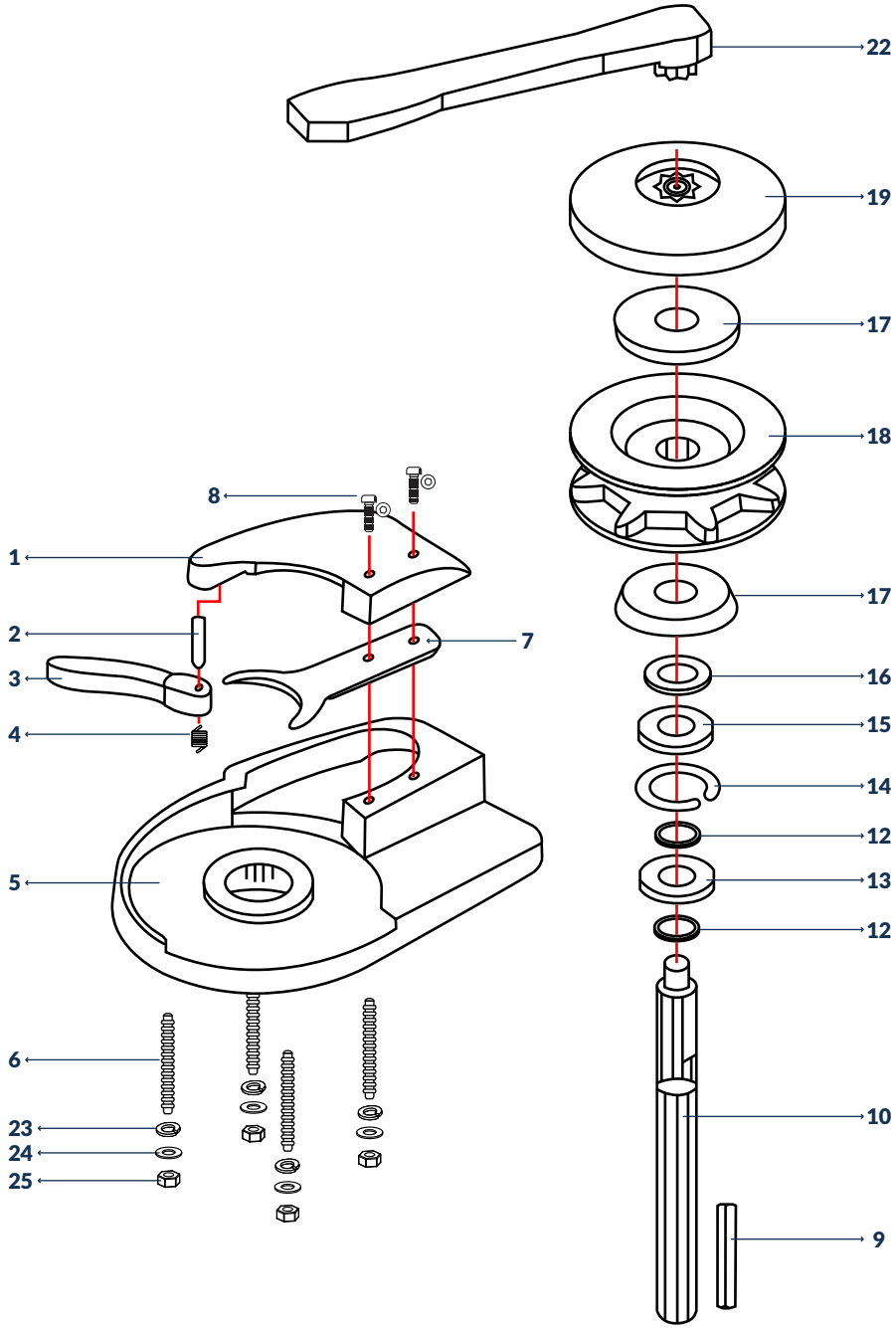
Clean the 316 stainless steel housing with a stainless-steel cleaner or polish to maintain its finish and prevent staining.



12. EXPLODED-VIEW DRAWING

The following exploded view diagram illustrates the windlass assembly and all its components. Please use this diagram and the accompanying parts list to accurately identify items for maintenance or when ordering replacements.

Part No.	Part Name	Quantity
1.	Chain Pipe Cover	1
2.	Pin - Spring	1
3.	Pressure Finger	1
4.	Spring	1
5.	Base	1
6.	Connection Bolt	4
7.	Rope Fork	1
8.	Lid Cover Bolt	2
9.	Key	1
10.	Gypsy Shaft	1
11.	Combo Shaft	1
12.	Clip - 1	1
13.	Bearing	1
14.	Clip - 2	1
15.	Oil Seal	1
16.	Washer	1
17.	Cone Clutch	1
18.	Gypsy	1
19.	Gypsy Cap	1
20.	Capstan	1
21.	Capstan Screw	1
22.	Handle	1
23.	Lock Washers	4
24.	Flat Washers	4
25.	Nuts	4



13. TROUBLESHOOTING

Important! Safety First

Before inspecting your windlass, turn off the main windlass circuit breaker at your boat's electrical panel. Windlasses draw very high currents and have powerful moving parts. If you are not comfortable, contact a specialist.

1. The Windlass Does Nothing (Completely Dead)

→ Check the Circuit Breaker

This is the most common cause. Find the main windlass breaker (usually near the batteries or on the main panel) and make sure it hasn't tripped. Reset it and try again.

→ Check the Controls

- **Foot Switches:** These often corrode. Press them firmly several times. If you can, check their connections underneath.
- **Helm Switch:** Ensure the switch at the helm is turned on.

→ Check the Solenoid (Contactor)

When you press the button (up or down), do you hear a loud "CLICK" coming from the solenoid/control box?

- If you hear a "CLICK" but the motor doesn't spin: The problem may be the motor itself or the heavy-gauge power connections between the solenoid and the motor.
- If you do NOT hear a "CLICK": The problem is likely the solenoid itself, or the low-voltage wiring running from your switches to the solenoid.

2. The Windlass Runs Slow or Seems Weak

→ Start Your Boat's Engine!

This is the #1 cause. A windlass uses a massive amount of power. Battery voltage will drop quickly if the engine isn't running and charging the batteries. Low voltage makes the windlass run slow and overheat.

→ Corroded or Loose Connections

Check the big, heavy-gauge battery cable connections (positive and negative). A single bad connection (with green rust or sulfation) creates high resistance and won't let enough power through. Clean and tighten them.

→ Old Batteries

Your batteries may no longer be able to supply the high current (amperage) the windlass demands.

3. The Motor Runs, but the Chain Doesn't Move (or Slips)

→ The Clutch is Loose

This is the most likely problem. The windlass is designed to slip if the clutch isn't tight. Use the windlass handle (winch handle) to tighten the top nut/cap on the gypsy (the part that grabs the chain). Tighten it clockwise.

→ For Rope Only

If you are using a rope/chain combination (rode), make sure the rope is the correct size and type (usually 3-strand) for your gypsy. Old, stiff rope will also slip.

4. The Chain/Rope Jumps or Jams in the Gypsy

→ **Chain/Rope and Gypsy Mismatch**

Did you recently replace your chain/rope? You must use the exact size and type of chain your gypsy is designed for. Chain/Rope sizes are not interchangeable.

→ **Worn-Out Gypsy**

If the windlass is old, the "teeth" on the gypsy may be rounded off and no longer grip the chain properly.

→ **Chain/Rope Piling (Castling)**

Check your anchor locker. If the chain is piling up in a "castle" directly under the windlass, it can't feed in freely and will jam. You need to help spread it out.

→ **Mud or Debris**

Clean the gypsy. Sometimes dried mud or a small rock can get jammed in it, preventing the chain from seating correctly.

→ **Chain/Rope Conditions**

The chain and rope must be in good working condition; if they are not, the windlass may not operate properly.

5. The Circuit Breaker Trips Constantly

→ **Overloading**

You are asking the windlass to do too much work

- Do not try to "pull" the boat to the anchor with the windlass. Use the boat's engine to motor forward slowly as you retrieve the chain.

- If the anchor is stuck, do not use the windlass to break it free. Cleat off the chain and use the boat's engine momentum to free it.

→ **Low Voltage**

As in Problem 2, if the voltage is low (boat engine off), the windlass will draw more amps to do the same amount of work, tripping the breaker. Always operate the windlass with the boat's main engine running.

→ **Seized Motor or Short**

If it trips immediately, there may be a mechanical problem (jammed gears) or an electrical short in the motor.

14. WARRANTY

14.1. ONE-YEAR LIMITED WARRANTY

Five Oceans Group LLC guarantees the original retail purchaser a one (1)-year warranty from the date of purchase for defects in materials or product construction.

During this period, Five Oceans Group LLC will, at its sole discretion, repair or replace any components that fail under normal use. Such repairs or replacement will be made at no charge to the customer for parts. The customer will be responsible for all associated shipping costs.

14.2. WARRANTY EXCLUSIONS

This Limited Warranty does not apply to or cover:

- Damage or failure resulting from improper installation, abuse, misuse, accident, or negligence.

- Failures caused by unauthorized alteration, modification, or repair.
- Normal wear and tear (e.g., cosmetic finishes, rust, or discoloration).
- Products used for non-marine applications.
- Damage caused by incorrect electrical wiring, improper voltage, or non-compliance with the installation guide.

14.3. HOW TO OBTAIN WARRANTY SERVICE

To obtain warranty service, the original purchaser must contact Five Oceans Group LLC. A copy of the original sales receipt is required as proof of purchase to validate the warranty. The product may need to be returned to our facility for inspection and repair.

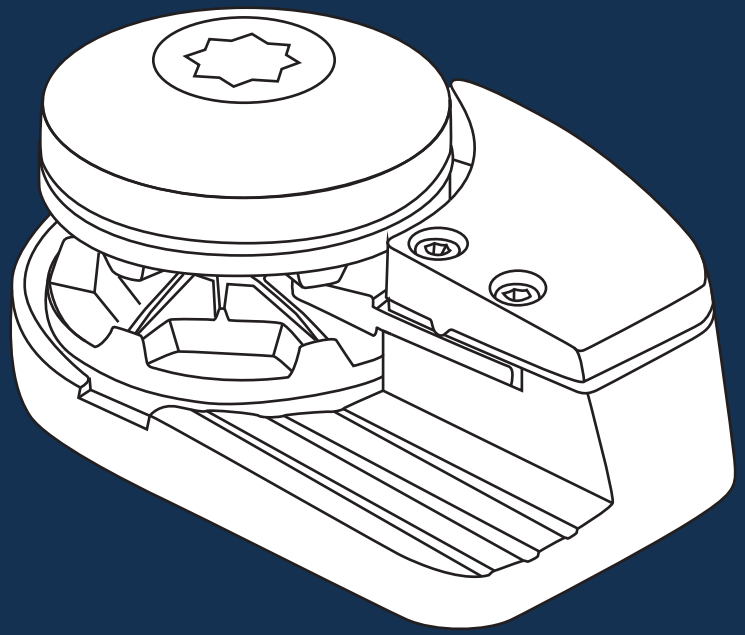
14.4. LIMITATION OF LIABILITY

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Five Oceans Group LLC's liability shall be limited to the repair or replacement of the product as stated herein. Five Oceans Group LLC shall not be liable for any incidental, consequential, special, or indirect damages, including but not limited to, loss of use, loss of revenue, or damage to the vessel or other property.

PACIFIC WINDLASS SERIES

Owner Manual for 600, 900, 1000 & 1500 Models



Vertical Windlasses

- FO3931 (600 Watts)
- FO3288 (1000 Watts)
- FO3287 (900 Watts)
- FO3444 (1500 Watss)

Five Oceans Group LLC

Customer Support & Technical Service

www.five-oceans.com

info@five-oceans.com