

WINDLASS RIVIERASeries

REV 000A



UK
CA

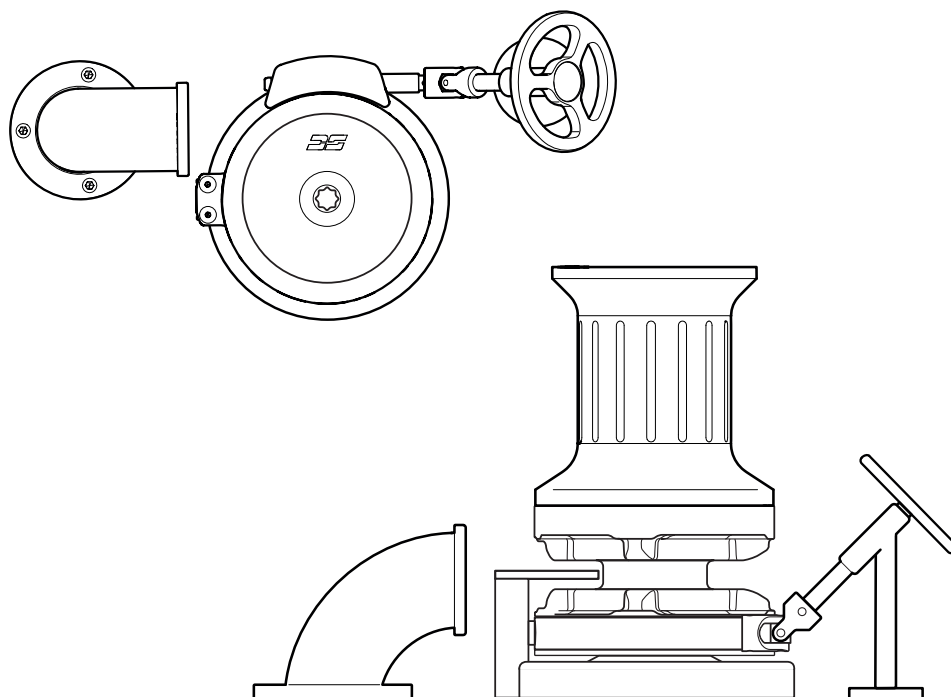
May, 2025

W4 3024 DC - 3524 DC - 4000 AC - 5500 AC - HYDRO

W5 4024 DC - 4000 AC - 5500 AC - HYDRO

W7 5500 AC - 7500 AC - HYDRO

W15 15000 AC - HYDRO



***EN - INSTALLATION AND USER'S MANUAL** **General instructions**

*Other languages available by scanning the QR code on the back of this manual or on the label on the product.

IT *Altre lingue disponibili scansionando il codice QR presente sul retro del seguente manuale o sull'etichetta alloggiata sul prodotto.



SANGUINETI

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Thank you for choosing a **Sanguineti** nautical accessory.

Sanguineti is an international leader in the production and marketing of nautical accessories. The Italian plant designs, engineers and manufactures all the products in the Sanguineti range.

RIVIERA VERTICAL WINDLASSES

Nautical accessory for lifting and casting the anchor.

Thanks to electric or hydraulic motors, Riviera is the range of anchor windlasses with mechanical movement.

The parts exposed to the marine environment are made entirely of stainless steel and the gypsy is made of brass alloy.

The entire Riviera series features the band brake with movable fixing block that allows to aim the handwheel in several positions on the deck plan.

2 - Important information

RWSeries

This manual provides boatyards and nautical equipment installers with instructions on how to assemble the specified Sanguineti Riviera windlass and operate it correctly.

READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE USING THE PRODUCT.

IF IN DOUBT, CONTACT YOUR SANGUINETI DEALER.

Sanguineti reserves the right to modify the technical characteristics of the equipment and the contents of this manual without prior notice. In case of discordance or errors in translation between the translated version and the original text in the Italian language, reference will be made to the Italian text.

Keep the manual for future reference. Scan the QR code to download the digital version.



2.0 - Abbreviations and symbols

ABBREVIATIONS

EX = Example







P. = Page

RW = Riviera Windlass

SYMBOLS

This manual features Warning and/or Caution symbols that are important for safety.

Please follow the instructions provided.

	Warning symbol for dangerous situations.
	Warning symbol for feet and/or hand crushing hazard (yellow triangle)
	Danger symbol for crushing hands by gears (red circle)
	Danger symbol for crushing hands by chain (red triangle)
	Caution symbol to prevent direct or indirect damage to the product.
	Caution symbol to prevent direct or indirect damage to the installer/end user.

3.0 - General precautions



Sanguineti windlasses have been designed and manufactured to weigh the anchor

- Do not use these products for any other type of operation.
- Sanguineti shall not be held liable for direct or indirect damage caused by improper use of the product.
- The windlass is not designed to support loads generated in particular weather conditions (storm).
- Operate the product from a position where it is possible to supervise the work area.
- Always deactivate the windlass when not being used.
- Make sure that there are no bathers nearby before dropping the anchor.
- For improved safety, we recommend installing at least two controls to operate the windlass in case one is damaged.
- We recommend the use of the Sanguineti switch as motor safety device.
- Secure the chain with a retainer before sailing off.
- **24 V MODEL ONLY:** The reversing contactor box must be installed in a position protected from any water entry.
- After completing the anchorage, secure the chain to fixed points such as chain stopper or bollard.
- To prevent accidental releases, the anchor must be secured. The windlass must not be used as sole securing device.
- Isolate the windlass from the electrical system during navigation and secure the rope to a fixed point of the boat.
- This equipment is not intended for use by people (including children) with reduced physical, sensory or mental capabilities. Sanguineti shall not be held liable for direct or indirect damage caused by improper use of the equipment.





3.1 - Precautions for the installer and PPE



CARRY OUT THE INSTALLATION IN GOOD LIGHTING CONDITIONS.

It is advisable to wear suitable clothing and personal protective equipment (PPE).

All personal protective equipment must comply with the relevant national legislation and must be checked, maintained and used in accordance with the manufacturer's instructions.

PPE for the installer and the routine maintenance technician		
Identification pictogram	Description	Notes
	HELMET	Use of safety helmet to prevent damage caused by suspended loads during work and impact to structures
	SAFETY GLOVES	Use of protective gloves to prevent cuts, perforations or punctures during work operations
	SAFETY SHOES	Use of safety shoes to prevent damage caused by falling materials from above during windlass installation operations.
	SAFETY CLOTHING	Use of suitable protective clothing to prevent entanglement with moving and transported parts.

The product is not suitable for installation in potentially explosive environments and/or atmospheres. Installation and subsequent inspection or repair work must only be carried out by qualified personnel.



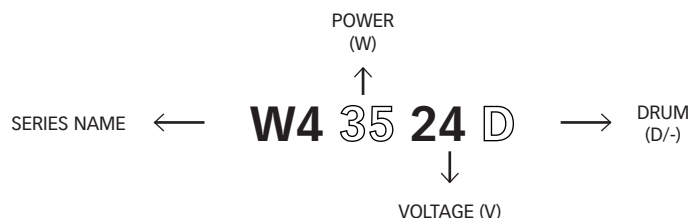
CARRY OUT INSTALLATION/MAINTENANCE WORK MAKING SURE THAT THE PRODUCT IS DISCONNECTED FROM THE ELECTRICAL SYSTEM.

Sanguineti accepts no responsibility for inadequate connection of users to the electrical system and inadequate safety of the electrical system.



SANGUINETI RESERVES THE RIGHT TO MODIFY THE TECHNICAL CHARACTERISTICS OF THE EQUIPMENT AND THE CONTENTS OF THIS MANUAL WITHOUT PRIOR NOTICE. IN CASE OF DISCORDANCE OR ERRORS IN TRANSLATION BETWEEN THE TRANSLATED VERSION AND THE ORIGINAL TEXT IN THE ITALIAN LANGUAGE, REFERENCE WILL BE MADE TO THE ITALIAN TEXT.

4.0 - Model code



4.1.0 - W4 Technical Data

ELECTRIC MODEL	W4 DC MOTOR	
MODEL POWER	3000 W	3500 W
Motor voltage	24 V	
Maximum instantaneous pull	3000 kg (6613.9 lb)	4000 kg (8818.5 lb)
Maximum work load	1200 kg (2645.5 lb)	1500 kg (3307 lb)
Work load	600 kg (1322.8 lb)	700 kg (1543.2 lb)
Current consumption at work load ⁽¹⁾	173 A	197 A
Maximum recovery speed ⁽²⁾	31 m/min (10 1.7 ft/min)	27.6 m/min (90.6 ft/min)
Minimum motor cable cross section ⁽³⁾	50 mm ²	
Circuit breaker ⁽⁴⁾	100 A	
Deck thickness ⁽⁶⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight without drum	104 kg - 229.3 lb	102.5 kg - 226 lb
Weight with drum	121 kg - 266 lb	122 kg - 269 lb

ELECTRIC MODELS	W4 AC MOTOR	
MOTOR POWER	4000 W	5500 W
Motor voltage ⁽⁵⁾	230/400 V - Three-phase	
Maximum instantaneous pull	4000 kg (8818.5 lb)	4500 kg (9921 lb)
Maximum work load	1500 kg (3307 lb)	2350 kg (5180.8 lb)
Maximum recovery speed ⁽²⁾	20 m/min (65.6 ft/min)	20 m/min (65.6 ft/min)
Deck thickness ⁽⁶⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight without drum	113 kg (249.1 lb)	126 kg (277.8 lb)
Weight with drum	131 kg (288 lb)	143 kg (315.3 lb)

• (1) After an initial period of use. • (2) Measurements carried out with gypsy for 12/13 mm ISO/ DIN766 chain. • (3) Minimum recommended value for total length L = <20m. Determine the cable cross section according to the length of the wiring. • (4) With specific circuit breaker for direct current (DC) and delayed (thermal-magnetic or hydraulic-magnetic) circuit breaker. • (5) Three-phase motor • (6) Studs for greater deck thickness can be supplied upon request.

HYDRAULIC MODEL	W4 HYDRO	
Motor type	Reversible gear type	
Displacement	17.9 cc	1.09 in ³
Lifting capacity	2500 kg @ 230 bar	5511.5 lb @ 3335.9 psi
Recovery speed at work load ⁽¹⁾	12.5 m/min	41 ft/min
Deck thickness ⁽²⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight without drum	99.5 kg	219.4 lb
Weight with drum	116.5 kg	256.8 lb
ADJUSTMENT VALUES (recommended by Sanguineti)		
Flow rate	60 l/min	13.2 USG/min
Maximum pressure	230 bar	3335.9 psi

(1) Measurements carried out with gypsy for 12/13 mm ISO/ DIN766 chain
 (2) Studs for greater deck thickness can be supplied upon request.

4.1.1 - W5 Technical Data

ELECTRIC MODEL	W5 DC MOTOR
MODEL POWER	4000 W
Motor voltage	24 V
Maximum instantaneous pull	4000 kg (8818.5 lb)
Maximum work load	1500 kg (3307 lb)
Work load	700 kg (1543.2 lb)
Current consumption at work load ⁽¹⁾	190 A
Maximum recovery speed ⁽²⁾	31 m/min (101.7 ft/min)
Minimum motor cable cross section ⁽³⁾	35 mm ² (AWG 2)
Circuit breaker ⁽⁴⁾	150 A
Deck thickness ⁽⁶⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 23/64)
Weight	192 kg (423 lb)

ELECTRIC MODELS	W5 AC MOTOR	
MOTOR POWER	4000 W	5500 W
Motor voltage ⁽⁵⁾	230/400 V	230/400 V
Maximum instantaneous pull	4500 kg (9921 lb)	5000 Kg (11000 lb)
Maximum work load	2000 Kg (4409 lb)	2350 Kg (5180.8 lb)
Maximum recovery speed ⁽²⁾	10 m/min (32.8 ft/min)	11.6 m/min (38 ft/min)
Deck thickness ⁽⁶⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 23/64)	
Weight	185 kg (407.85 lb)	190 kg (408 lb)

• (1) After an initial period of use. • (2) Measurements carried out with gypsy for 16 mm STUD-LINK chain. • (3) Minimum recommended value for total length L = <20m. Determine the cable cross section according to the length of the wiring. • (4) With specific circuit breaker for direct current (DC) and delayed (thermal-magnetic or hydraulic-magnetic) circuit breaker. • (5) Three-phase motor • (6) Studs for greater deck thickness can be supplied upon request.

HYDRAULIC MODEL	W5 HYDRO	
Motor type	Reversible gear type	
Displacement	43 cc	2.62 in ³
Lifting capacity	2500 kg @ 150 bar	5511.5 lb @ 2175 psi
Recovery speed at work load ⁽¹⁾	12.5 m/min	41 ft/min
Deck thickness ⁽²⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight	175 kg	385 lb
ADJUSTMENT VALUES (recommended by Sanguineti)		
Flow rate	70 l/min	18.5 USG/min
Maximum pressure	200 bar	2900 psi

(1) Measurements carried out with gypsy for 16 mm stud-link chain.
(2) Studs for greater deck thickness can be supplied upon request.

4.1.2 - W7 Technical Data

ELECTRIC MODELS	W7 AC MOTOR	W7 AC MOTOR
MOTOR POWER	5500 W	7500 W
Motor voltage ⁽¹⁾	230/400 V	400/690 V
Maximum instantaneous pull	4500 kg (9921 lb)	6500 Kg (14330 lb)
Maximum work load	2500 Kg (5511.5 lb)	3500 Kg (7716 lb)
Maximum recovery speed ⁽²⁾	14.5 m/min (47.6 ft/min)	14 m/min (46 ft/min)
Deck thickness ⁽³⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 5/16)	
Weight	310 kg (683 lb)	315 kg (694 lb)

(1) Three-phase motor • (2) Measurements carried out with gypsy for 20.5 mm STUD-LINK chain. • (3) Studs for greater deck thickness can be supplied upon request.

HYDRAULIC MODEL	W7 HYDRO	
Motor type	Reversible gear type	
Displacement	43 cc	2.62 in ³
Lifting capacity	3000 kg @ 170 bar	6613.9 lb @ 2465 psi
Recovery speed at work load ⁽¹⁾	14 m/min	46 ft/min
Deck thickness ⁽²⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 23/64)	
Weight	290 kg	639 lb
ADJUSTMENT VALUES (recommended by Sanguineti)		
Flow rate	70 l/min	18.5 USG/min
Maximum pressure	200 bar	2900 psi

(1) Measurements carried out with gypsy for 20.5 mm STUD-LINK chain. • (2) Studs for greater deck thickness can be supplied upon request.

4.1.3 - W15 Technical Data

ELECTRIC MODELS	W15 AC MOTOR
MOTOR POWER	15000 W AC
Motor voltage ⁽¹⁾	400/690 V
Maximum instantaneous pull	8000 Kg (17636 lb)
Maximum work load	6000 Kg (13227 lb)
Maximum recovery speed ⁽²⁾	15 m/min (49.2 ft/min)
Deck thickness ⁽³⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 23/64)
Weight	600 kg (1322 lb)

(1) Three-phase motor - (2) Measurements carried out with gypsy for 26 mm STUD-LINK chain. - (3) Studs for greater deck thickness can be supplied upon request.

HYDRAULIC MODEL	W15 HYDRO	
Motor type	Reversible gear type	
Displacement	45 cc	2.75 in ³
Lifting capacity	6000 kg @ 250 bar	6613 lb @ 456 bar
Recovery speed at work load ⁽¹⁾	15 m/min	49 ft/min
Deck thickness ⁽²⁾	30 ÷ 60 mm (1" 3/16 ÷ 2" 23/64)	
Weight	585 kg	1290 lb
ADJUSTMENT VALUES (recommended by Sanguineti)		
Flow rate	80 l/min	18.5 USG/min
Maximum pressure	250 bar	2175 psi

(1) Measurements carried out with gypsy for 26 mm STUD-LINK chain. - (2) Studs for greater deck thickness can be supplied upon request.

4.2 - Chains and tightening torques

GYPSY	CHAIN SIZE		W4	W5	W7	W15
7/16"	G4		•			
1/2"	G4		•			
12 mm	ISO 4565		•			
12.5 mm	STUD-LINK		•	•		
13 mm	DIN 766		•			
14 mm	DIN 766	ISO 4565	•	•		
	STUD-LINK		•	•		
16 mm	DIN 766	ISO 4565	•	•		
	STUD-LINK			•	•	
17.5 mm	STUD-LINK				•	
18 mm	DIN 766	UNI(**)		•		
19 mm	STUD-LINK				•	
20.5 mm	STUD-LINK				•	
22 mm	STUD-LINK				•	•
24 mm	STUD-LINK					•
26 mm	STUD-LINK					•

(**) UNI EN 818-3.

RWSeries TIGHTENING TORQUE	Nm
M6	6.5
M8	16
M10	31
M12	55
M14	87
M16	135

Indicative values for stainless steel screws, consider tightening by assessing the material of the surface to which it will be fixed.

4.3 - Standard supply and material included in the package

- Windlass (top + gearmotor)
- Contactor or reversing contactor box (DC model only)
- Lever
- Screws for assembly
- Installation and user's manual, Warranty
- Drilling template

4.4 - Sanguineti accessories required, not included in standard supply

- Chain pipe
- Band brake handwheel

4.5 - Recommended Sanguineti accessories not included

- EC - BOX Electrical connection box for AC motors (up to 5.5kW)
- Inverter
- Control from control board
- Waterproof push-button panel
- Foot-operated switch
- Control system via RRC radio
- Chain stopper

5.0 - General instructions and precautions

Consider the RW weight when lifting it, see "technical data" of this manual.

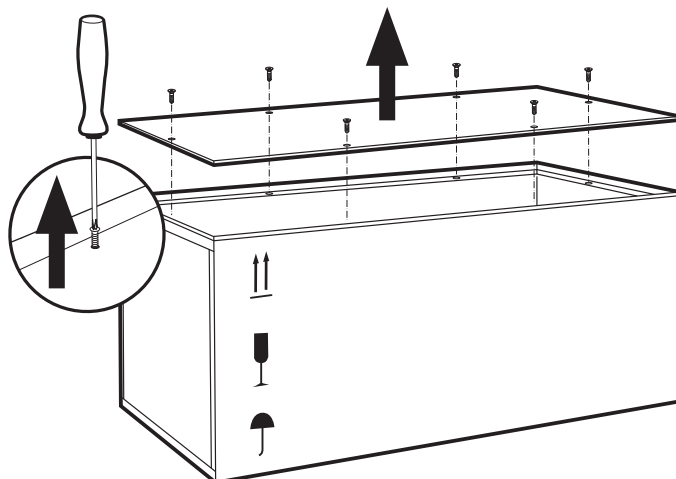


The handling and transport of the RW must be carried out by skilled personnel, capable of fastening loads correctly and in compliance with local regulations regarding work safety.

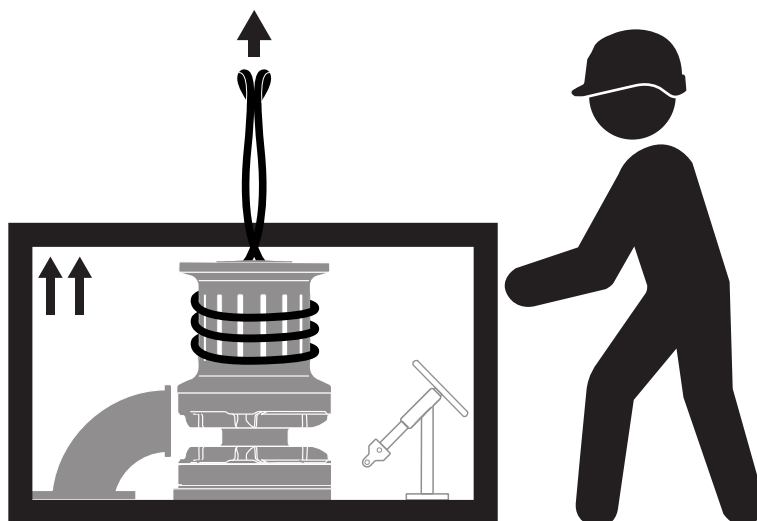
- Lift the RW with a mechanical aid.
- Care must be taken when removing the RW from packaging or when lifting it, taking care NOT to cause damage to the equipment or impact with the ground.

5.1 - Removing the crate & lifting the RWSeries

A. Remove the top panel of the crate.



B. Lift the RW from the crate with the mechanical aid using straps/slings to be tied to the drum or gypsy.



The images are purely indicative and may not fully reflect the product characteristics.

6.0 - Tools required for installation

- W4** • Drill with bit: Ø 14 mm (9/16") • Hole saw Ø 180 mm (7" 3/32) • Hex wrench: 17 and 19 mm
W5 • Drill with bit: Ø 15 mm (19/32") • Hole saw Ø 200 mm (7" 7/8) • Hex wrench: 19 mm
W7 • Drill with bit: Ø 15 mm (19/32") • Hole saw Ø 250 mm (9" 27/32) • Hex wrench: 19 mm
W15 • Drill with bit: Ø 20 mm (45/64") • Hole saw Ø 340 mm (13" 25/64) • Hex wrench: 24 mm

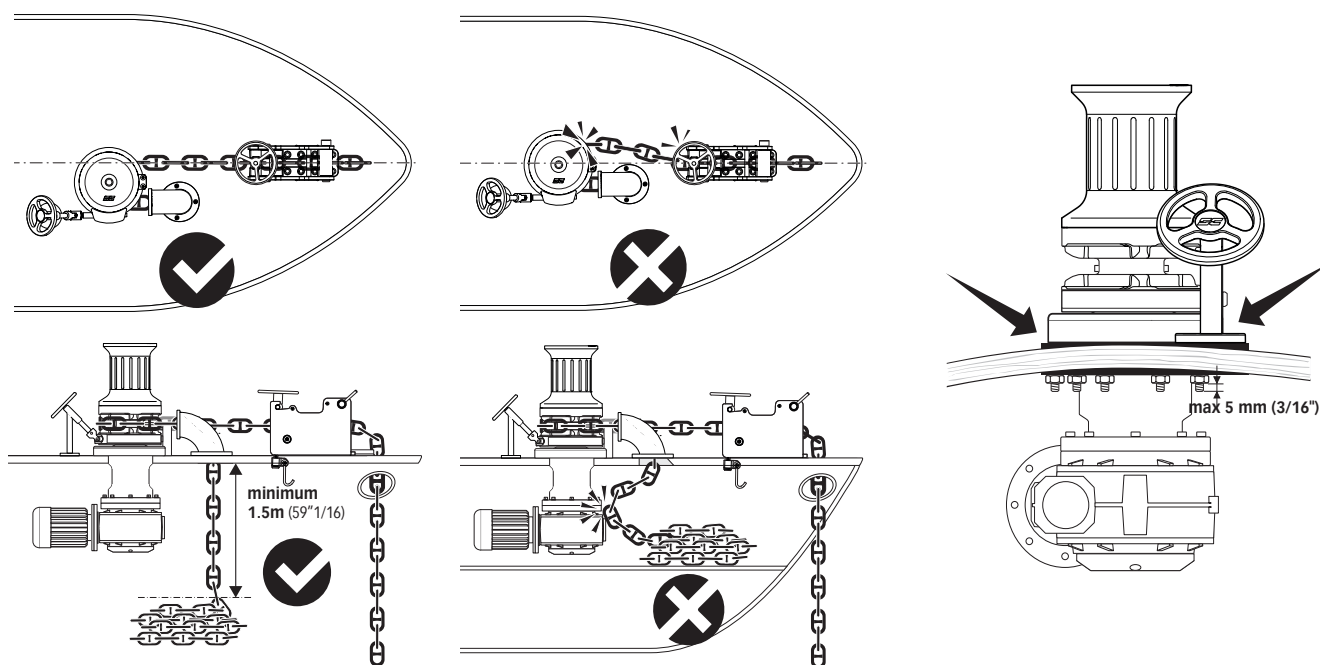
6.1 - Installation requirements

The windlass must be positioned by aligning the gypsy with the bow roller.

Check that the upper and lower surfaces of the deck are as parallel as possible; if this is not the case, properly compensate for the difference (lack of parallelism could result in motor power loss).

The deck thickness must be between the values shown in the table (Sect.4). In case of different thickness, please contact your Sanguineti dealer.

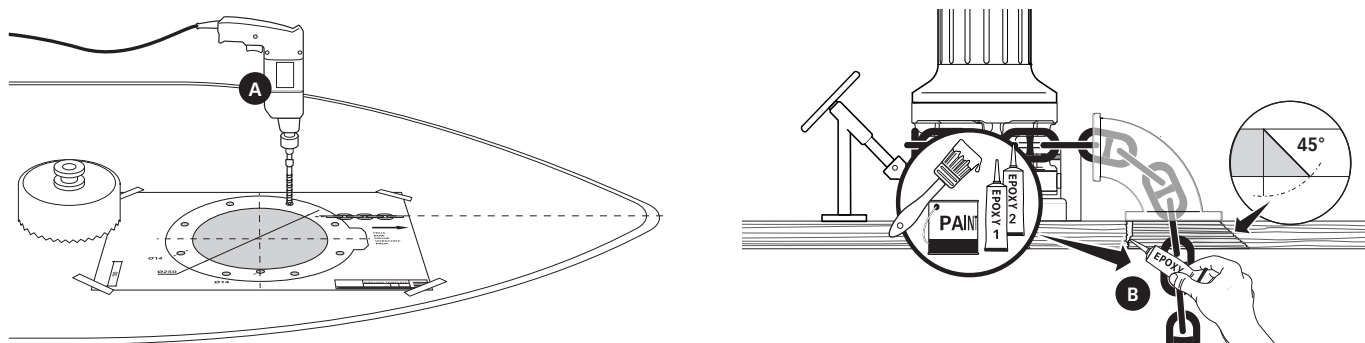
There must be no obstacles below deck for chain passage, the shallow depth of the locker could cause jams.



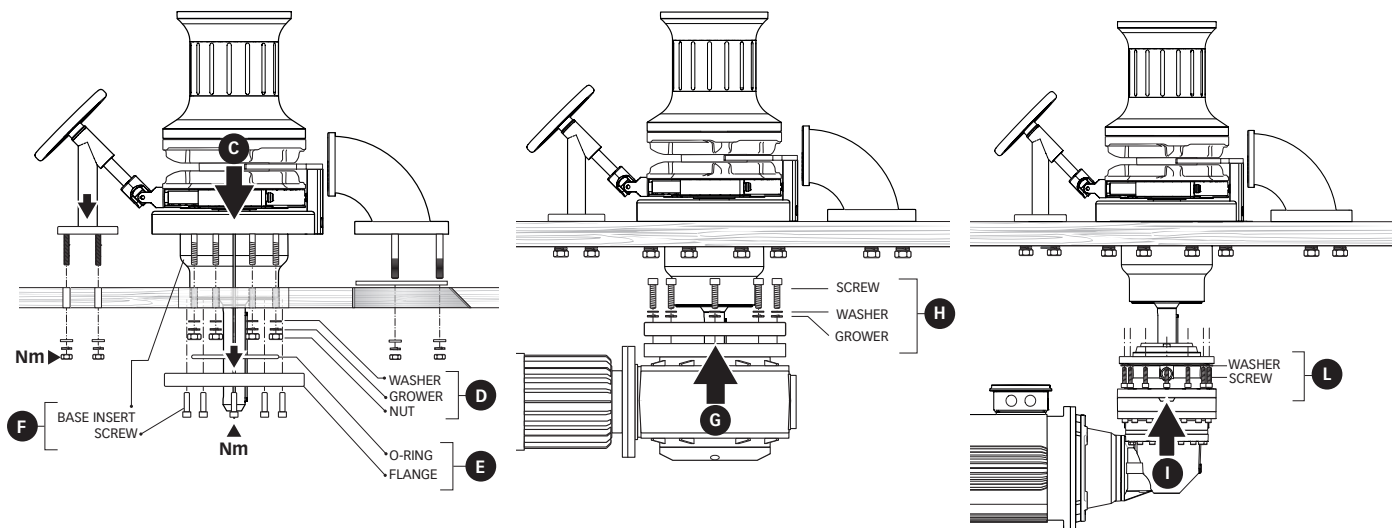
6.2 - Installation procedures


A) Identify the ideal position and drill the holes using the drilling template supplied.

B) Remove the excess material from the chain passage hole, finish it and smooth it with a specific product (marine paint, epoxy resin gel) ensuring the free passage of the chain.



W4/W5/W7 • C) Position the upper part of the windlass. **D)** Secure it by screwing the nuts on the locking studs. **E)** Insert the O-ring into the flange. **F)** Secure the flange to the base insert with 6 screws. **G)** Insert the gearmotor into the windlass shaft. **H)** Tighten with screws. **W15 • C)** Position the upper part of the windlass. **D)** Secure it by screwing the nuts on the locking studs. **I)** Insert the gearmotor into the windlass shaft. **L)** Tighten with screws.



 Tighten screws and nuts following a cross pattern with reference to the tightening values shown in the table (page 10). Apply threadlocker on the screws supplied. Periodically check proper tightening of screws.

ELECTRIC MOTOR Connect the power cables coming from the windlass to the mains (AC).

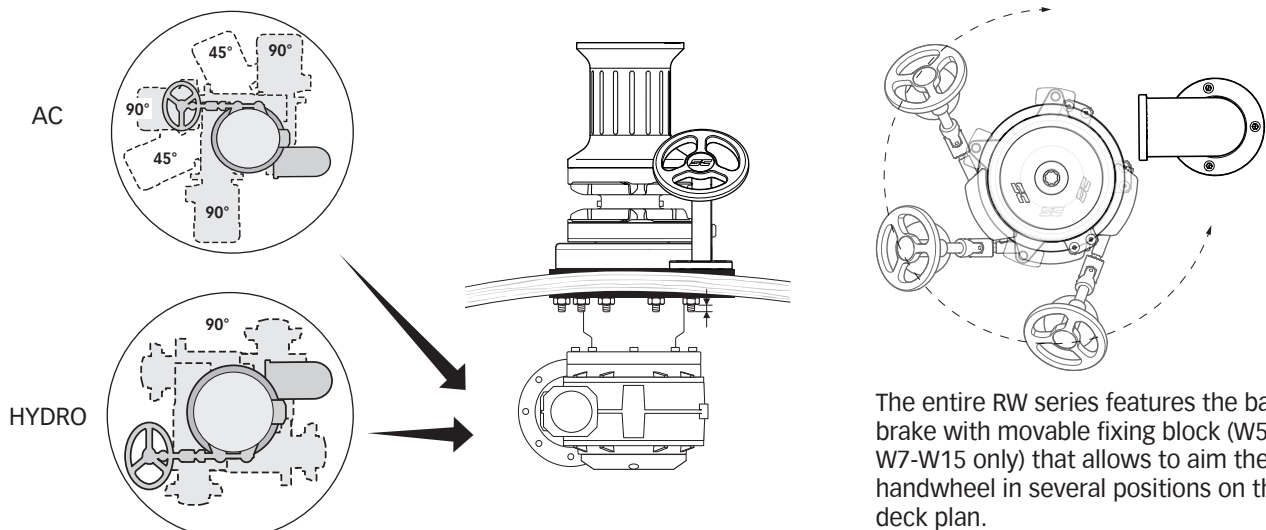
HYDRAULIC MOTOR Connect the pipes coming from the distribution valve to the two hydraulic motor flanges (see diagram in Chap. 7 Wiring diagrams).

WARNING: before connecting the equipment, make sure that cables are not live.

HORIZONTAL POSITION OF MOTOR GEARBOX AND HYDRAULIC MOTOR

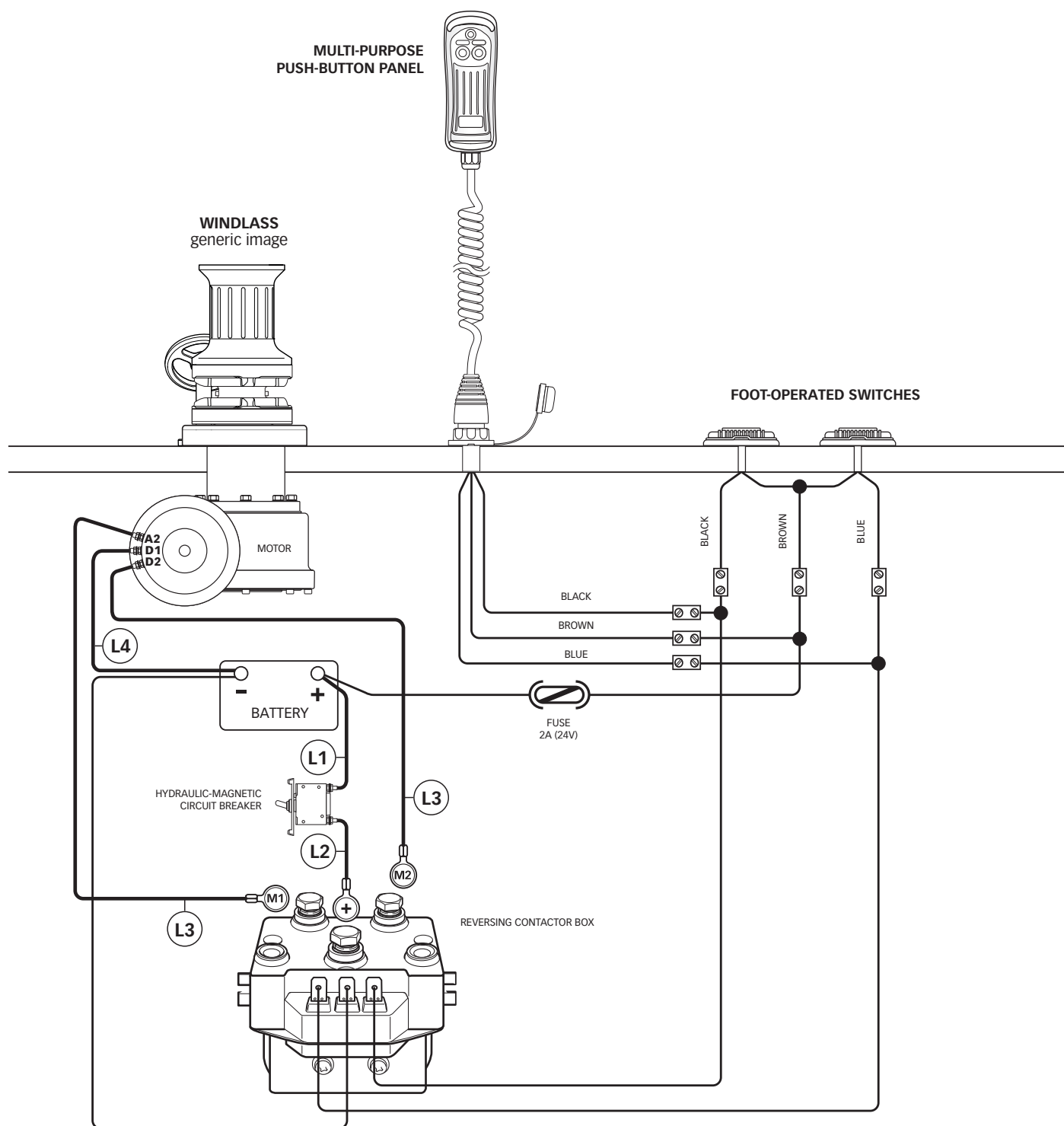
ELECTRIC Depending on the type of gearmotor, a rotation every 45° or 90° is possible.

HYDRAULIC Depending on the type of motor, a rotation every 90° is possible.



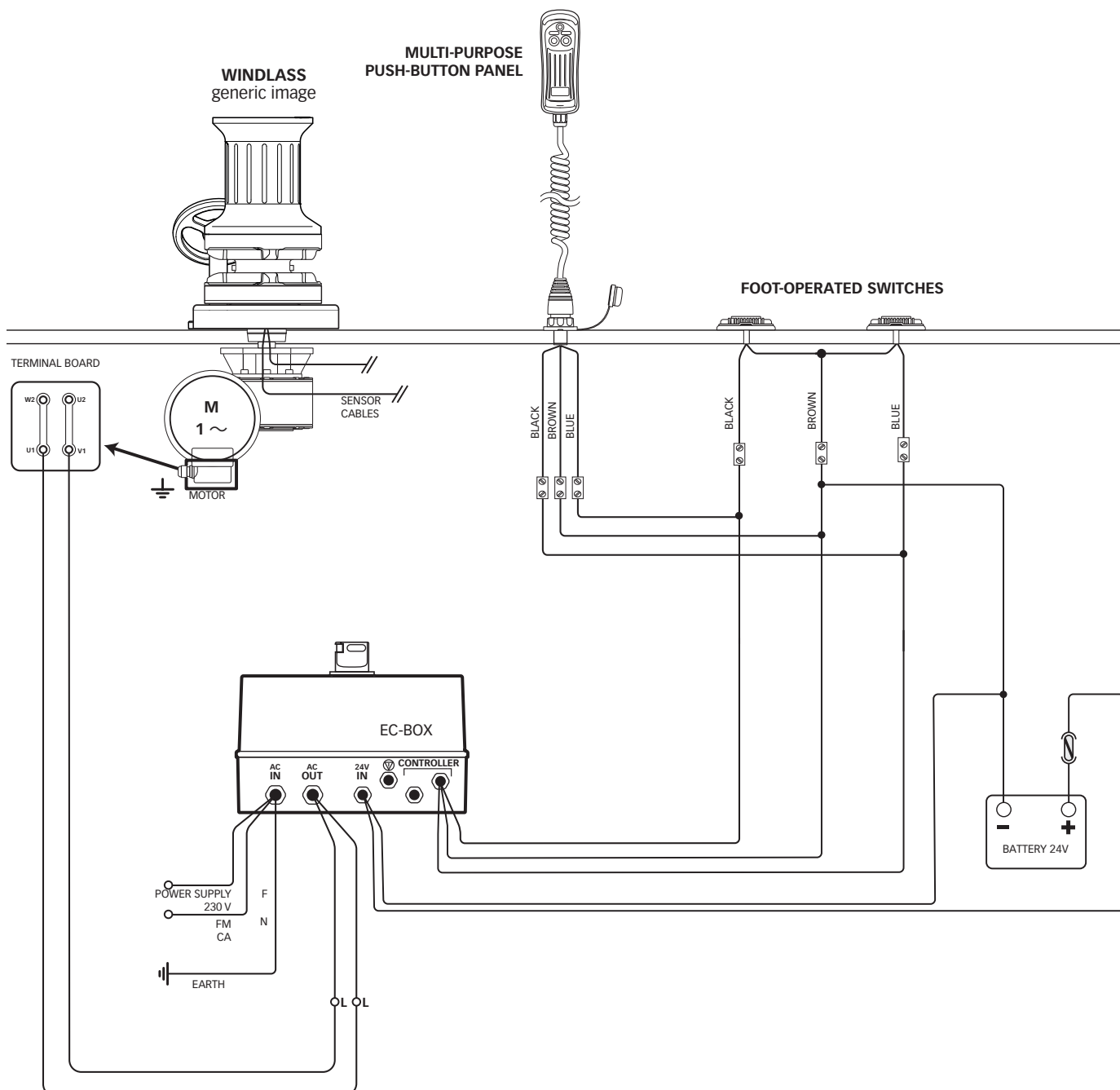
The entire RW series features the band brake with movable fixing block (W5-W7-W15 only) that allows to aim the handwheel in several positions on the deck plan.

7.0 - Example of connection of 3000W 24V W4

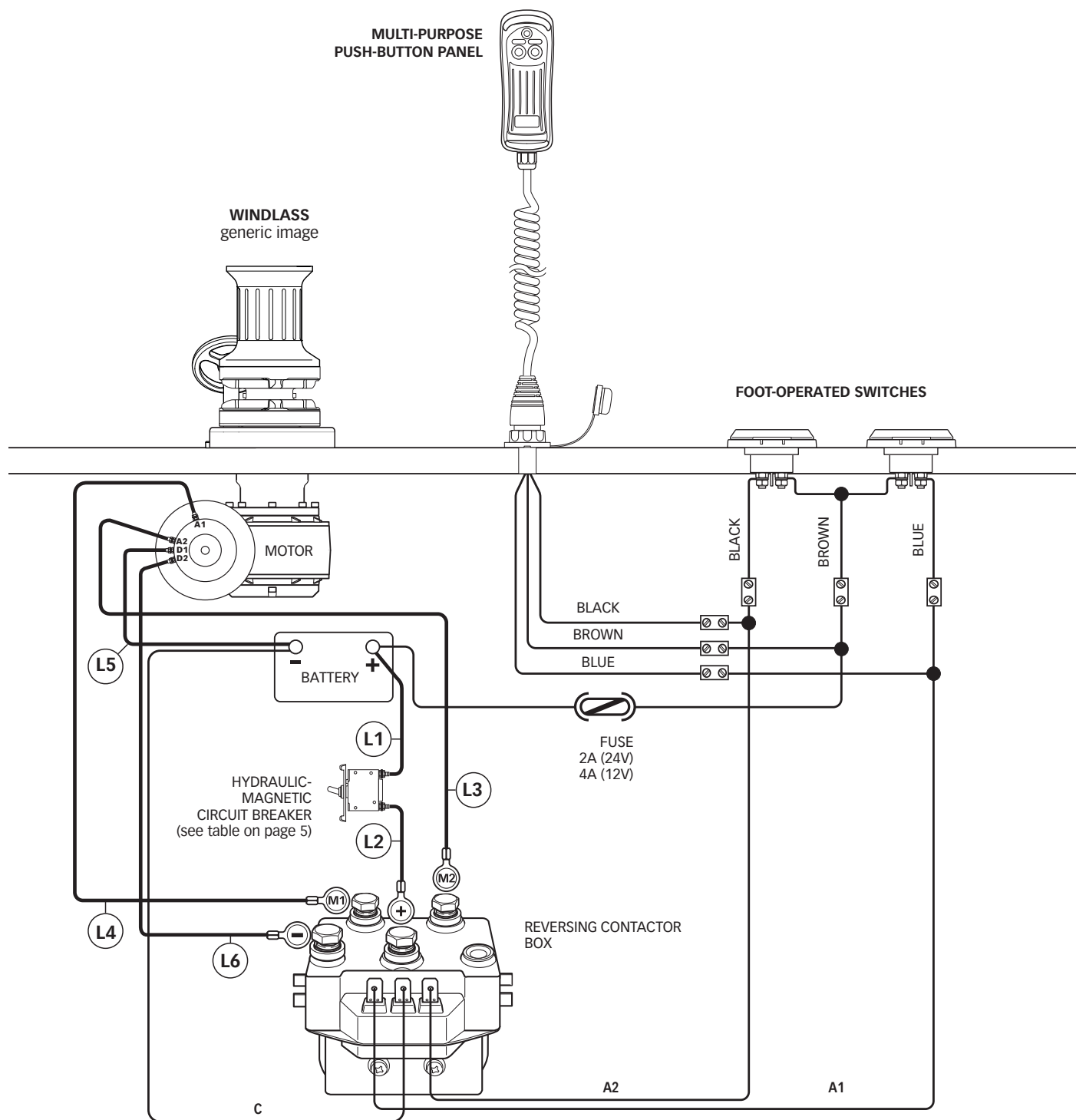


$$L = (L1) + (L2) + (L3) + (L4)$$

7.1 - Example of connection of 3000W 220V single-phase W4

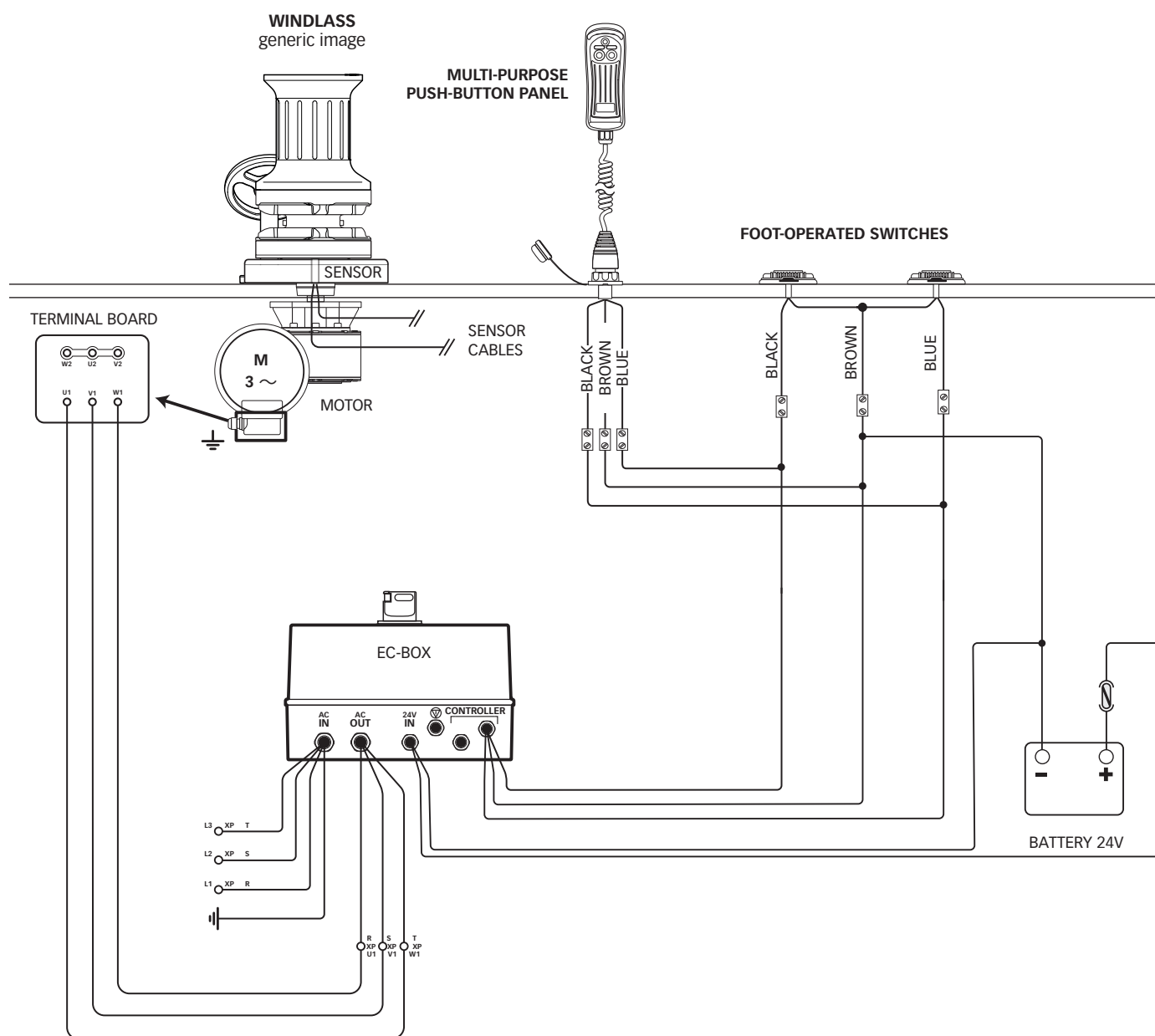


7.2 - Example of connection of 3500 24V W4 / 4000W 24V W5

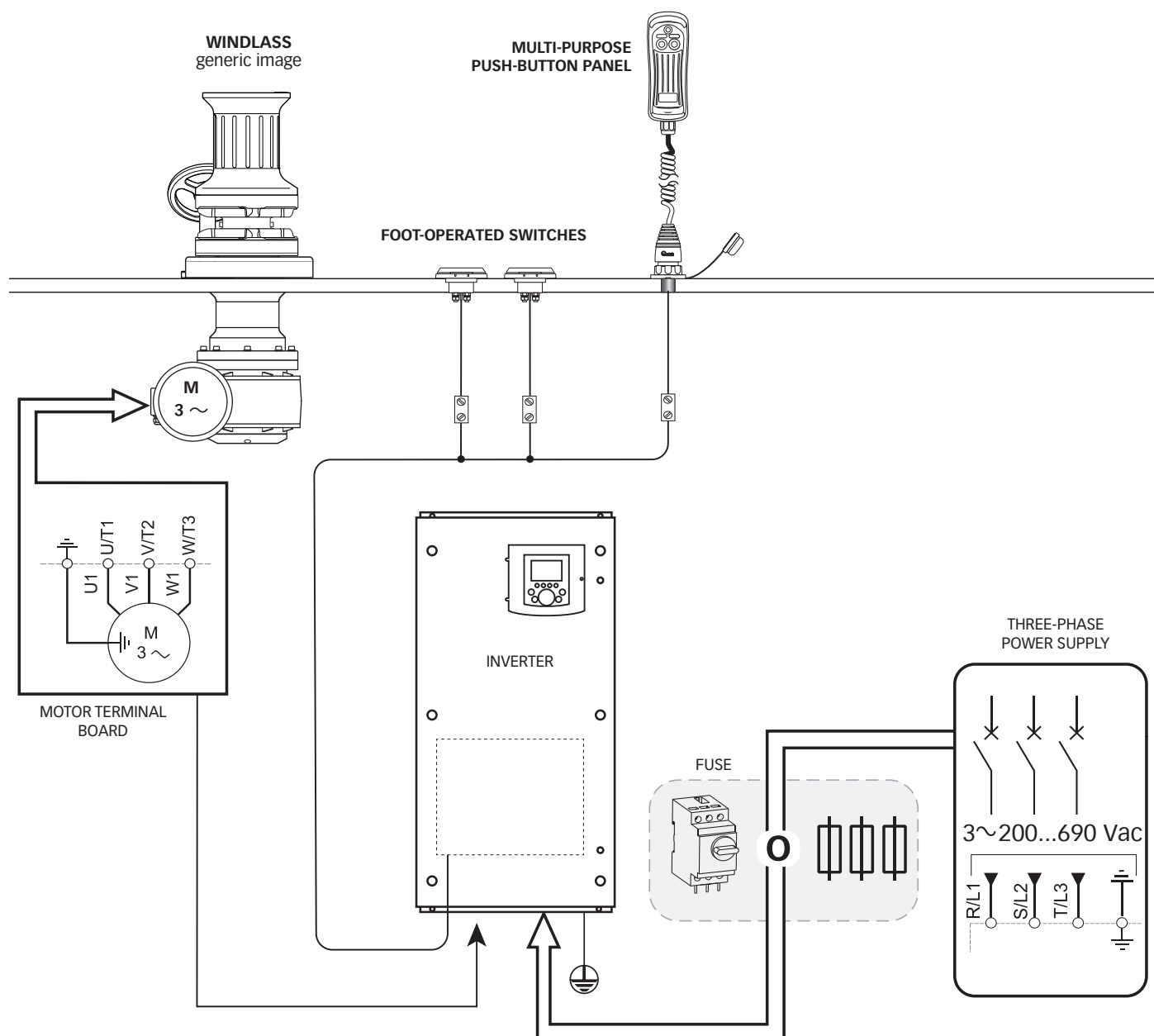


$$L = (L1) + (L2) + (L3) + (L4) + (L5) + (L6)$$

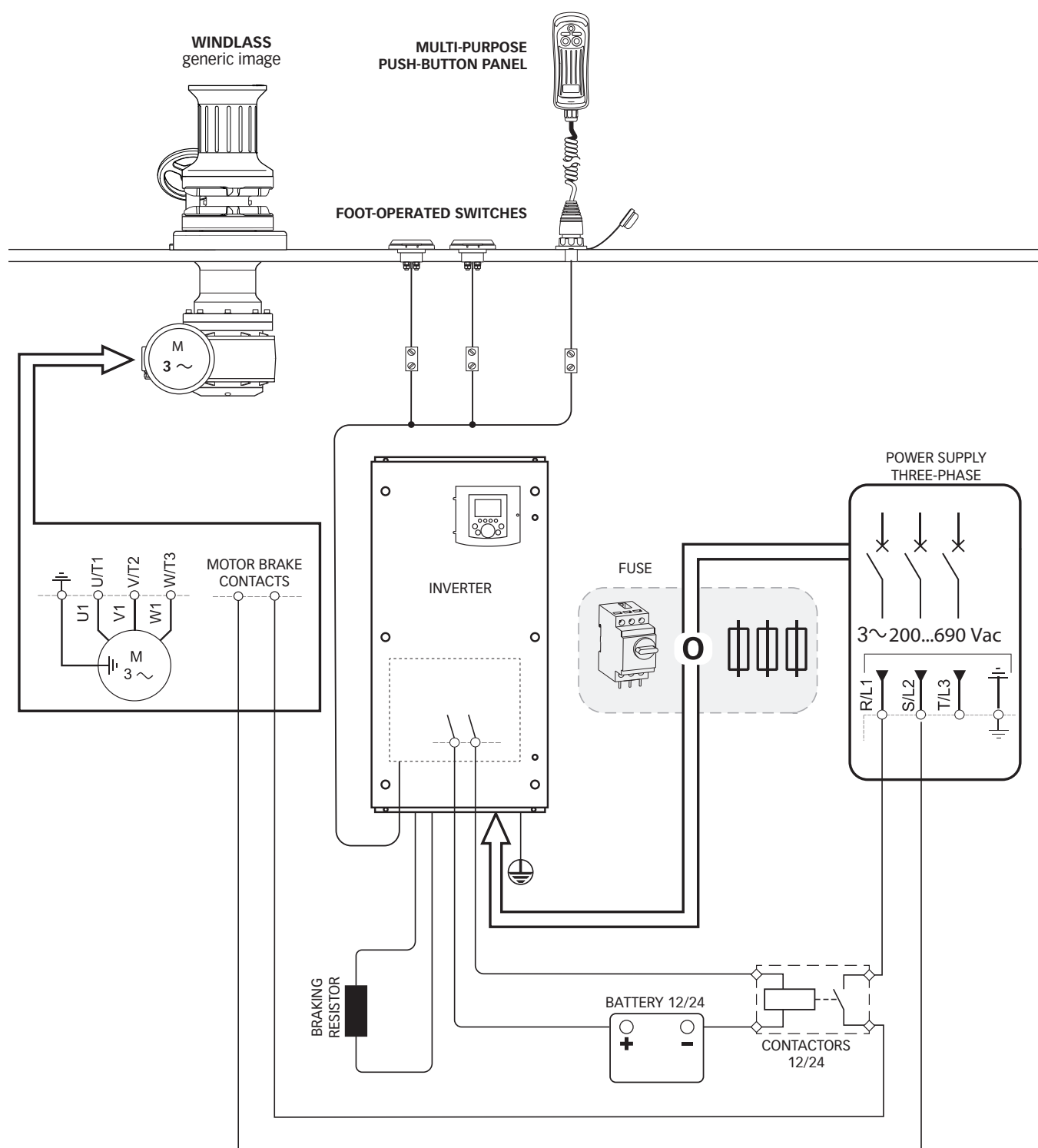
7.3 - Example of W4/W5 connection (4000W-5500W) W7 (5500W-7500W) AC EC-BOX



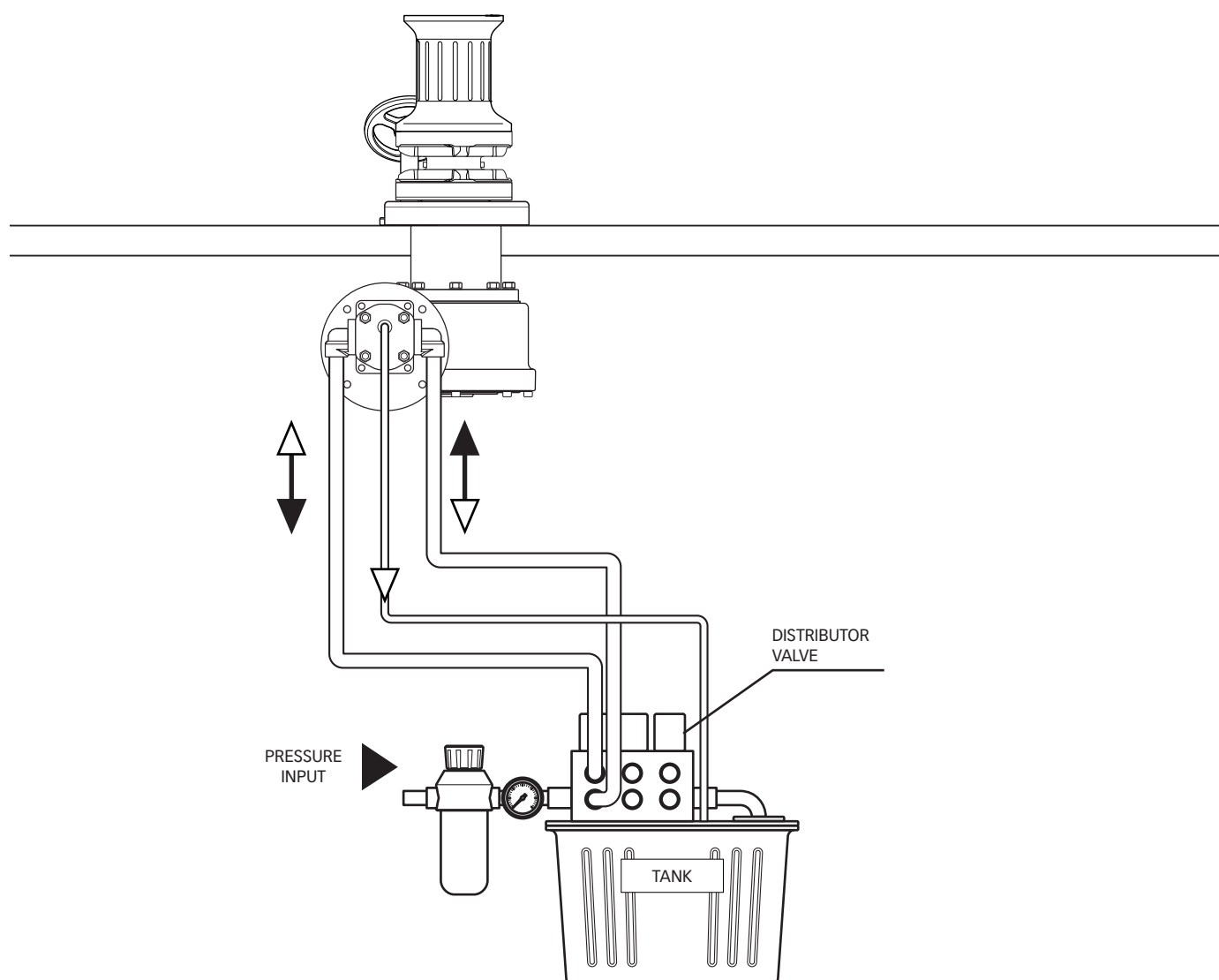
7.4 - Example of connection of W4 W5 W7 with inverter



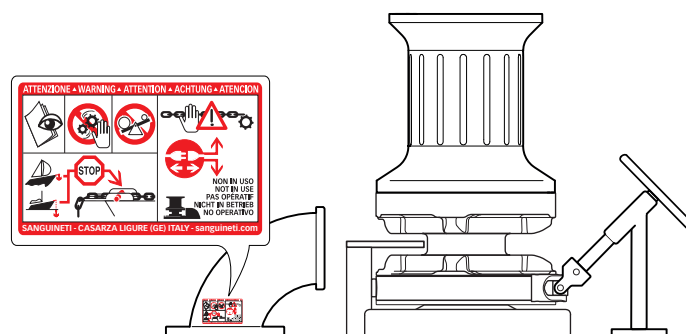
7.5 - Example of W15 basic connection



7.5 - Example of Riviera hydraulic connection



8.0 - Important cautions



DO NOT place any part of your body or objects near the chain and gypsy sliding area.

Operate the windlass from a position where it is possible to supervise the work area.

Make sure the electric motor is not powered when the windlass is operated manually (also when using the lever to lift the drum). In fact, people with windlass remote control (remote push-button panel or radio control) may accidentally activate it.

Secure the chain with a retainer before sailing off.

DO NOT electrically activate the windlass with the lever inserted in the drum or gypsy cover.



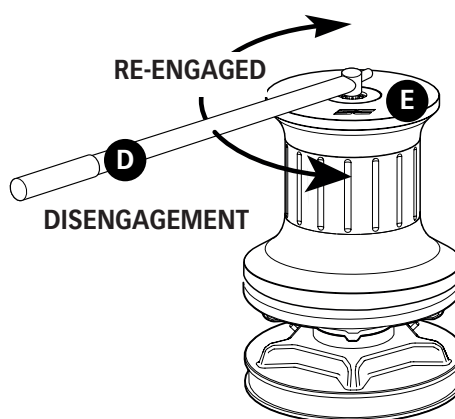
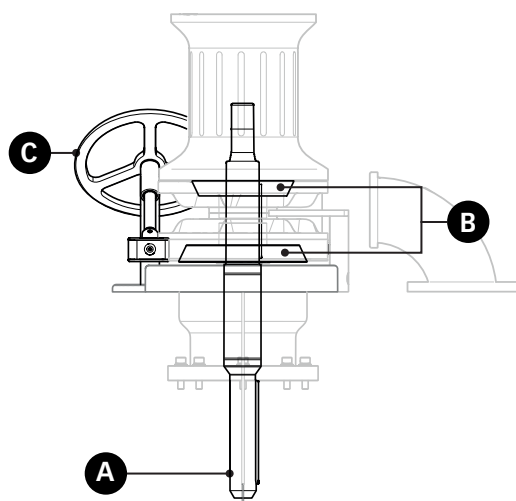
Sanguineti recommends using a suitable power fuse/thermal-magnetic/hydraulic-magnetic protection for the motor used, to protect the motor from overheating or short circuits.



The circuit breaker can be used to isolate the windlass control circuit, thus avoiding accidental activation.

8.1 - W4 clutch use

The clutch (**B**) provides a link between the gypsy and the main shaft (**A**). The clutch can be released (disengagement) by using lever (**D**) which inserted into the drum bush (**E**) must rotate counter-clockwise. The clutch will be re-engaged by turning it clockwise.



WEIGHING THE ANCHOR

- 1 Turn on the boat engine.
- 2 Make sure the clutch is engaged and remove the lever (D).
- 3 Press the UP button on the control provided.

 Check the upward movement of the chain for the last few meters in order to avoid damage to the bow.

CASTING THE ANCHOR


The anchor can be cast by using the electrical controls or manually.

Manually

The clutch must be disengaged allowing the gypsy to revolve and letting the chain or rope fall into the water. To slow down the chain, the brake (C) must be turned clockwise.

Electrically

To cast the anchor by using the electrical power, press the DOWN button on the control provided. In this manner, anchor casting is under control and the chain unwinds evenly.

 In order to avoid any stress on the windlass once the boat is anchored, fasten the chain or secure it to a safe point by means of a rope.

8.2 - W5-W7-W15 use

POWER TRANSMISSION

The central axis is connected to the reduction gear and the drum. The gypsy is dragged by the drum through front couplings on the gypsy.


When the drum (9) is up (Fig. A) and the bushing (3) is fully unscrewed, the gypsy (14) is free.

When the drum (9) is down (Fig.B) and the bushing (3) is fully screwed, the gypsy (14) is connected to the axis through the drum and it is possible to weigh the anchor.

GYPSY COUPLING

- 1) Use the lever (1) to screw the bushing 3 clockwise; the drum (9) lowers and engages the gypsy (14).

Make sure that the notches (image ref.A1) on the drum and the gypsy are aligned.

 The bushing must not be too tight, in this way the drum can rotate on the gypsy and engage the front couplings through the springs.

- 2) Use the lever (1) to unscrew the bushing by rotating it counter-clockwise by 1/4 of a turn.

- 3) Remove the lever.

- 4) Operate the motor. The springs in the bushing allow to engage the front couplings between drum and gypsy.

- 5) Visually check that it has engaged (Fig. B) and screw the bushing clockwise.

- 6) Remove the lever.

- 7) Release the band brake if the windlass must be used.

ANCHOR WEIGHING WITH MOTOR

- 1) Make sure that the drum is coupled to the gypsy (Fig. B).
- 2) Use Sanguineti controls to weigh or release the anchor.

FIG. A

 DO NOT STRAIN THE LIMIT SWITCH

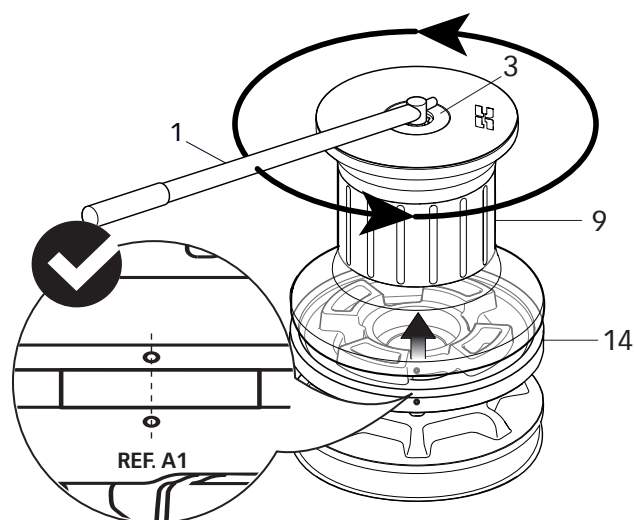
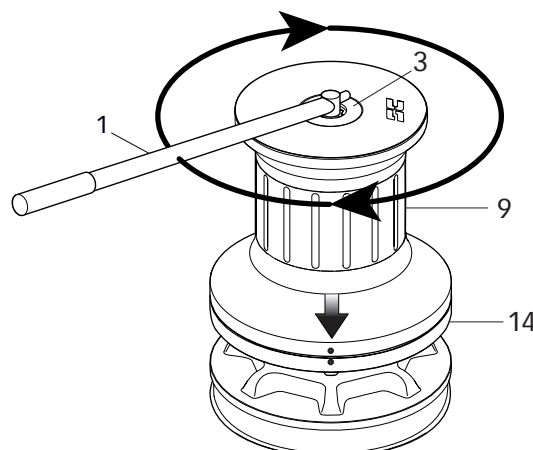


FIG. B



FREE FALL

- 1) Make sure that Sanguineti chain stopper is in a position that does NOT lock the chain (Fig. C).
- 2) Make sure that the band brake is completely tight.
- 3) ⚠ Unscrew the bushing counter-clockwise until its end of stroke and make sure that the drum is up, disengaged from the gypsy (Fig. A).
- 4) Use the handwheel to loosen the band brake and adjust the anchor free fall.

USING THE DRUM (GYPSY LOCKED)

- 1) Make sure that Sanguineti chain stopper is in a position that locks the chain (Fig. D).
- 2) Make sure that the band brake is completely tight.
- 3) ⚠ Unscrew the bushing counter-clockwise until its end of stroke and make sure that the drum is up, disengaged from the gypsy (Fig. A).
- 4) Use Sanguineti controls to rotate the drum in either direction (Fig. E). Wrap the rope counter-clockwise around the drum (at least 3 turns - Fig. F). It is possible to adjust speed reduction and recovery force by sliding the rope on the drum cylinder.



WARNING: during recovery, keep a suitable safety distance between your hands and the windlass drum.

FIG. C

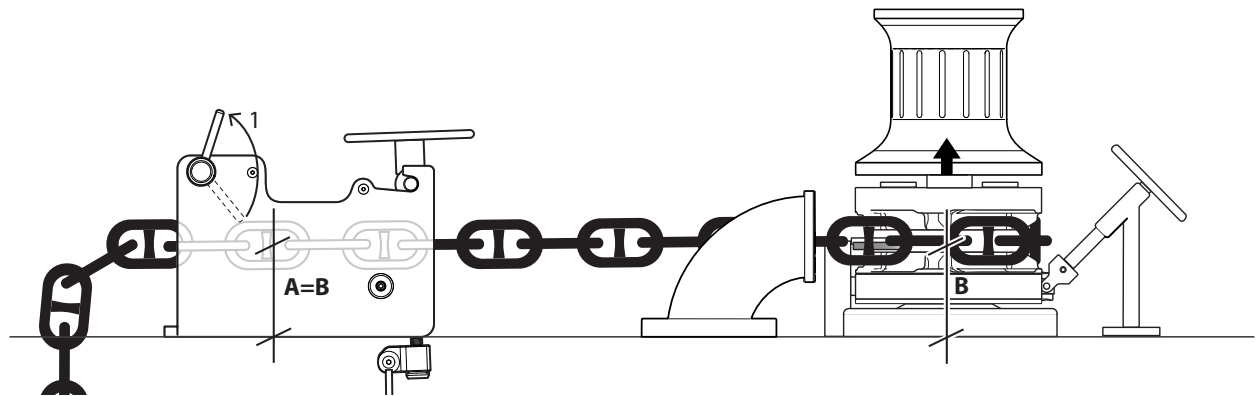


FIG. D

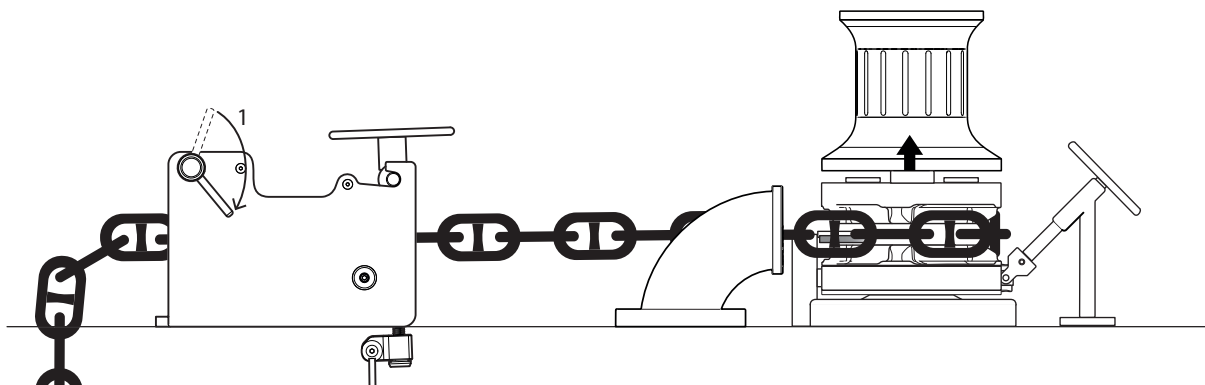
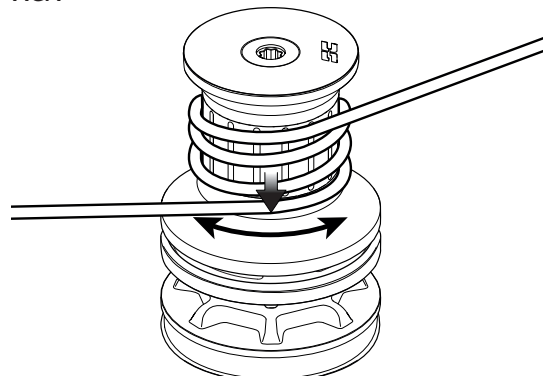
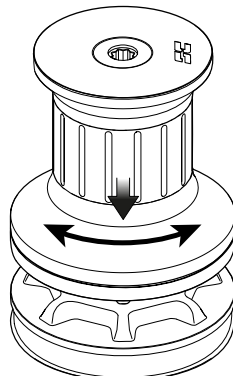
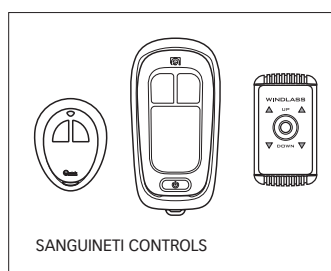


FIG. E

FIG. F



The images are purely indicative and may not fully reflect the product characteristics.

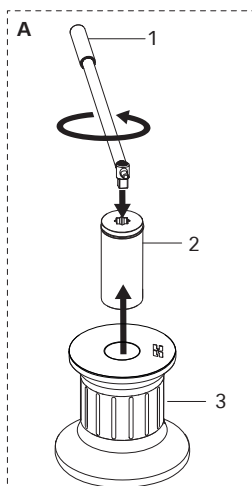


WARNING: make sure that the power supply to the electric motor is not switched on when manual operations are carried out on the windlass; carefully remove the chain from the gypsy or the rope from the drum.

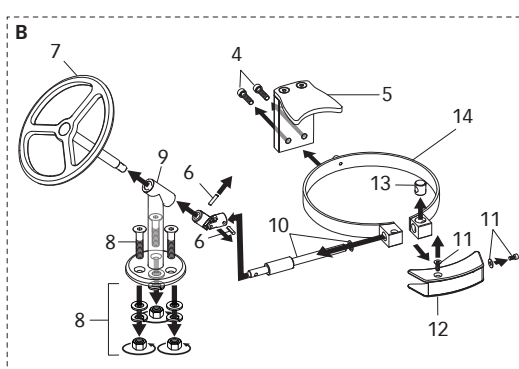
Sanguineti windlasses are made of materials resistant to the marine environment: it is essential, in any case, to periodically remove salt deposits that form on the external surfaces to avoid corrosion and consequently damage to the device.

- Thoroughly wash the surfaces and parts where salt can deposit with fresh water.
- Disassemble the gypsy and drum once a year; clean each disassembled part to prevent corrosion and grease (with high-performance silicone grease) the shaft thread, cones and clutch on W4 or O-rings on W5-W7-W15 of the drum bushing. Follow the disassembly sequence for maintenance:

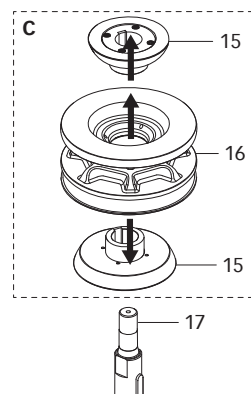
W4 PROCEDURE



A Turn lever (1) counter-clockwise to remove the bushing (2) from the drum (3).

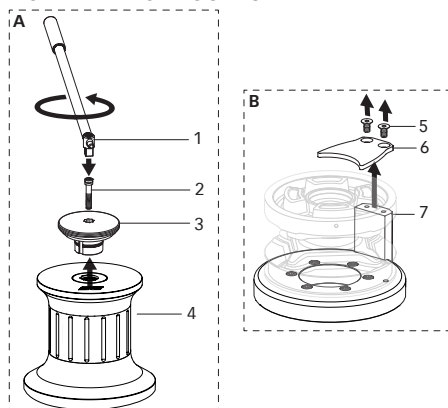


B Disassemble the band brake: unscrew the screws (4) to remove the chain stripper (5). Remove the keys (6) from the joint (9) and remove the handwheel (7). Remove the assembly (8) consisting of the screws/circlip/washers/nut from the rod. Unscrew the screws and washer (11) from the cover (12). Pull the shaft (10) out of the band brake (14). Remove the pin (13) and unhook the band brake from the gypsy (16).



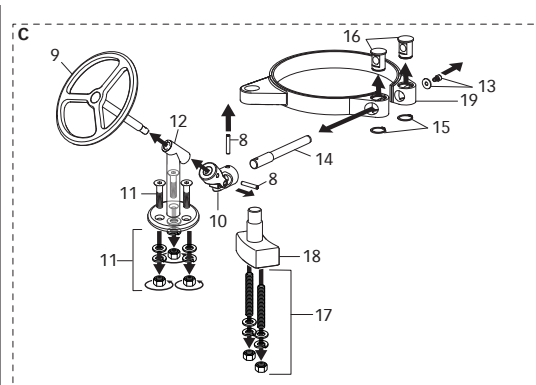
C Slide the gypsy locking element off the shaft (17) and remove the cones (15)

W5 - W7 - W15 PROCEDURE

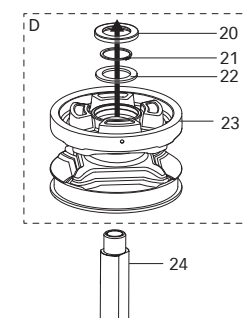


A Turn lever (1) counter-clockwise to remove the screw (2) and bushing (3) from the drum (4).

B Unscrew the screws (5) to remove the chain stripper (6) from the support (7).



C Disassemble the band brake: Remove the keys (8) from the joint (10) and remove the handwheel (9). Remove the assembly (11) consisting of the nut/circlip/washers/stud bolt from the rod (12). Remove the screw and washer (13) and pull out the shaft (14) of the band brake. Pull the circlip (15) and bushes (16) out of the band brake. Remove the assemblies (17) consisting of the grower washer/washers/stud bolt from the braking unit (18). Remove the braking unit from the band of the band brake and from the gypsy.



D Remove oil seals (20) and washer (21) from the gypsy (23) and slide it off the shaft (24)

Your contribution to protecting the environment



The crossed out bin symbol indicates that the product must be delivered for proper disposal.
The user is responsible for erasing any personal data from the electronic equipment to be disposed.
Proper separate collection helps to avoid possible negative effects on the environment and health and promotes the recycling of the materials of the equipment.

Disposal of packaging

The purpose of the packaging is to protect the goods from transport damage. The packaging materials used are recyclable, as they are selected in an environmentally friendly and easy-to-dispose manner.

The packaging may be retained for possible shipment to the authorized technical service department in the event of damage or equipment failure.

The individual components of the packaging may be collected separately in accordance with separate collection criteria.

Returning packages to the material collection circuit saves raw materials on one hand and reduces the volume of waste on the other.

Product disposal

Electrical and electronic equipment often contains useful materials. They also contain substances, compounds and components that were necessary for the operation and safety of the equipment. Improper disposal could be harmful to health and the environment.

The product consists of metal and plastic materials which, when separated, can often contain useful materials. Improper disposal could be harmful to health and the environment.

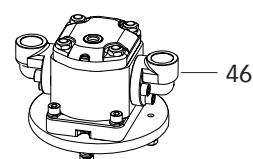
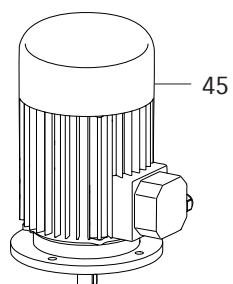
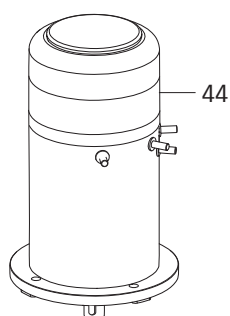
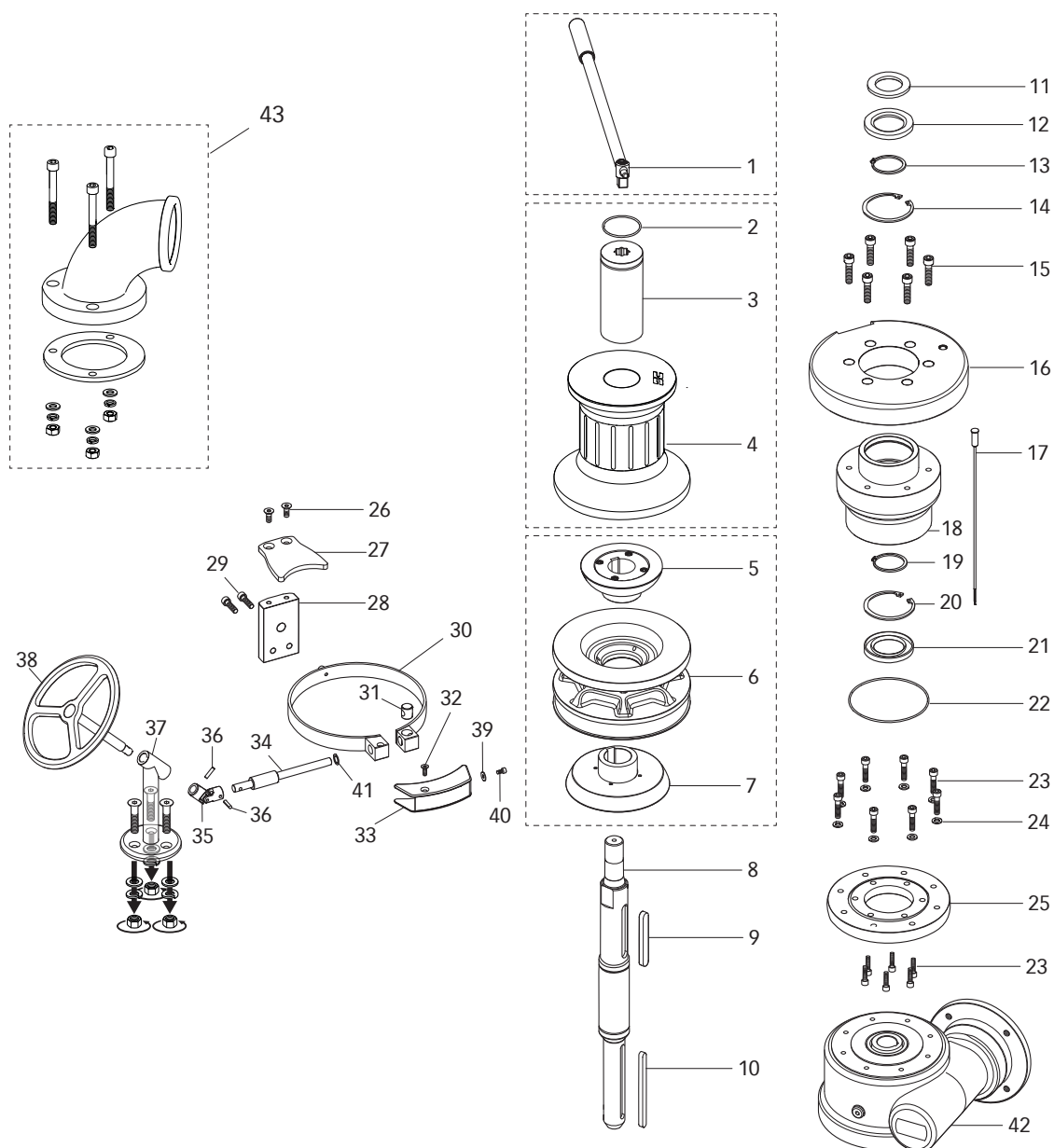
The user is therefore advised to separate the materials prior to disposal in order to ensure correct delivery of the materials including for possible reuse. In any case, follow the applicable delivery regulations of the country in which the product is used.

For EU countries

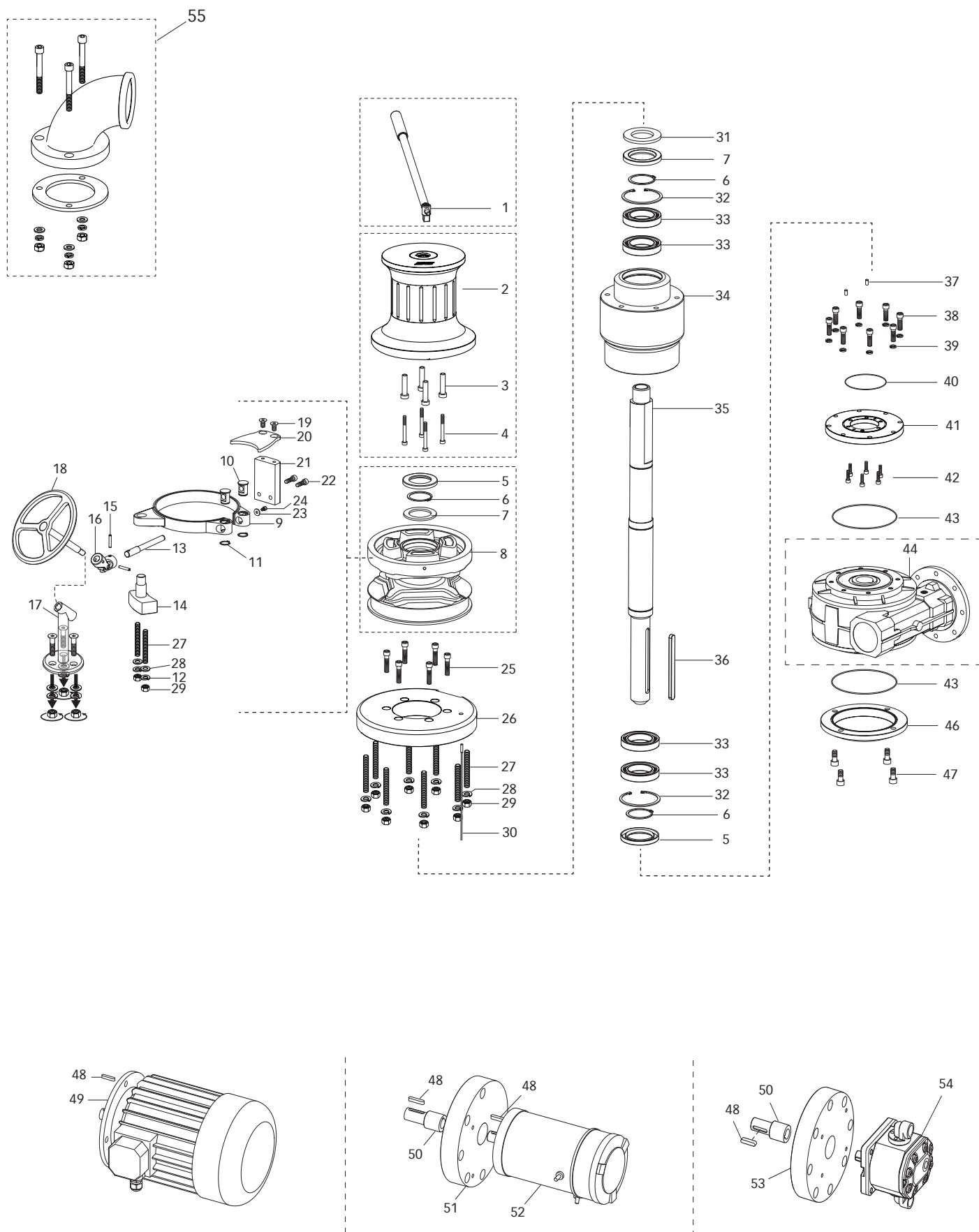
Disposal of waste electrical and electronic equipment (WEEE), in compliance with Directive 2012/19/EU and implementation of its transposition into national law.

For non-EU countries

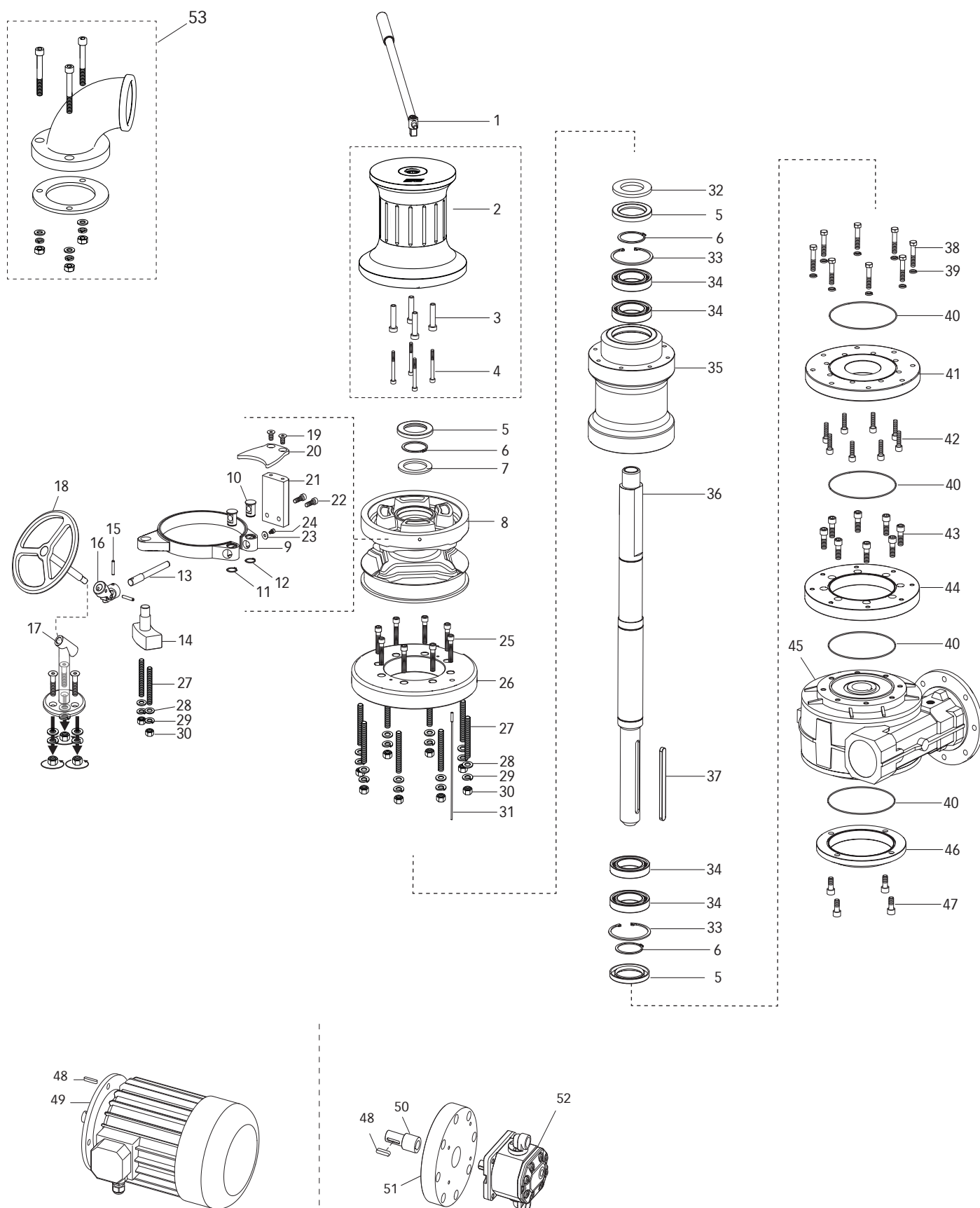
Dispose of the equipment in accordance with the applicable waste electrical and electronic equipment regulations.



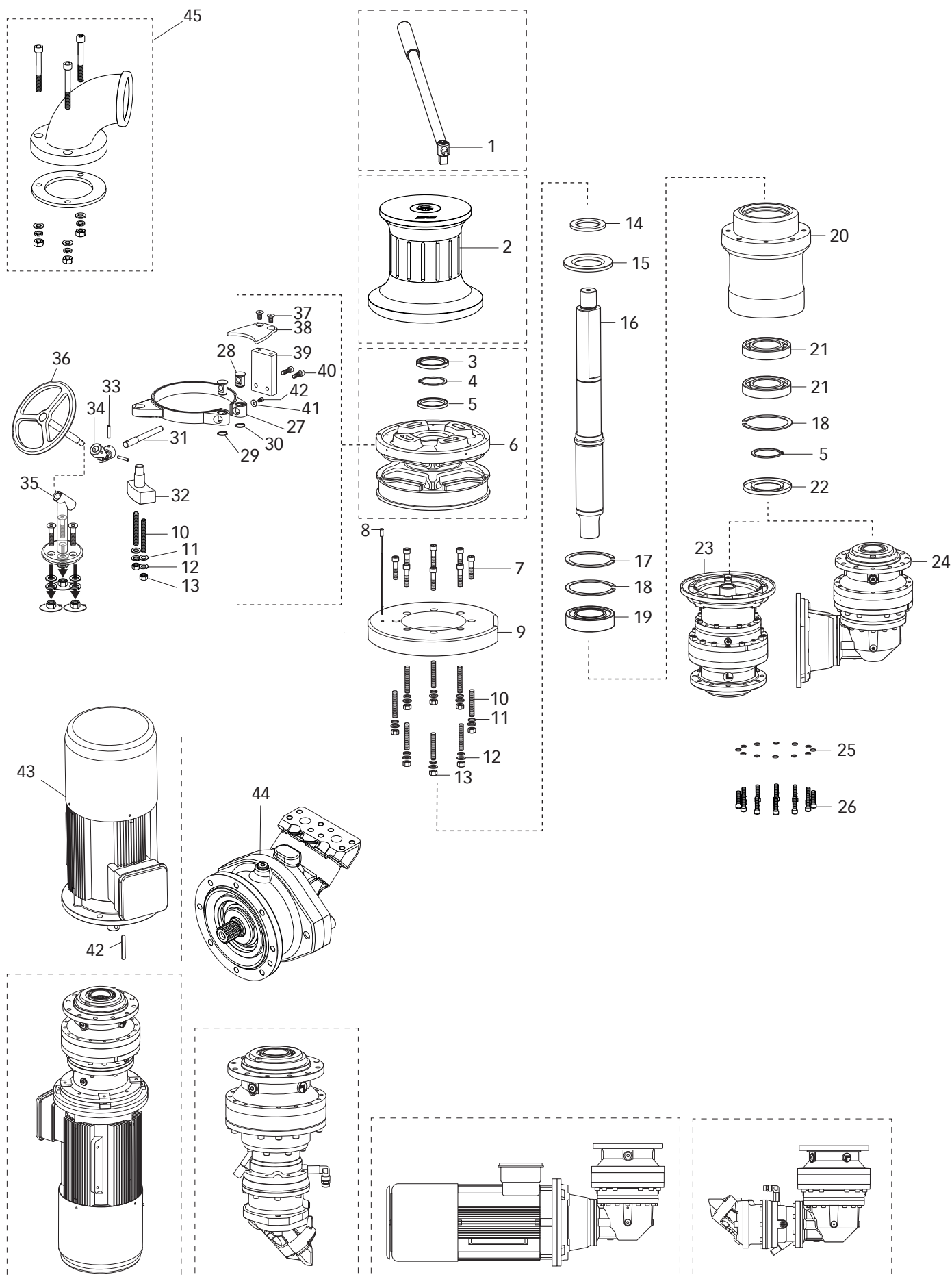
No.	NAME		
1	LEVER	26	SCREWS
2	BUSH O-RING	27	CHAIN STRIPPER
3	DRUM BUSHING	28	CHAIN STRIPPER SUPPORT
4	WINDLASS DRUM	29	SCREWS
5	UPP. CLUTCH CONE	30	BAND BRAKE
6	GYPSY	31	BRASS PIN
7	LOW. CLUTCH CONE	32	SCREW
8	SERIES WINDLASS SHAFT	33	COVER
9	KEY	34	BAND BRAKE SHAFT
10	KEY	35	UNIVERSAL JOINT
11	REINFORCING WASHER	36	KEY
12	OIL SEAL	37	ROD (SCREWS-WASHERS/ CIRCLIP/NUT)
13	EXTERNAL SNAP RING	38	BAND BRAKE HANDWHEEL
14	INTERNAL SNAP RING	39	GROWER
15	SCREW	40	SCREW
16	WINDLASS BASE	41	SPACER
17	SENSOR	42	TG110 GEARBOX
18	BASE INSERT	43	CHAIN PIPE (SCREWS-WASHERS/ CIRCLIP/NUT)
19	EXTERNAL SNAP RING	44	WINDLASS MOTOR 3000W 24V A
20	INTERNAL SNAP RING	44B	WINDLASS MOTOR 3500W 24V
21	OIL SEAL	45	WINDLASS MOTOR 4000W A 230/400V
22	O-RING	45B	WINDLASS MOTOR 5500W 230/400V
23	SCREWS	46	HYDRAULIC MOTOR
24	WASHERS		
25	UPPER FLANGE		



No.	NAME		
1	LEVER	19	COUNTERSUNK SCREW
2	DRUM	20	CHAIN STRIPPER
3	DRUM DISC SPACER	21	CHAIN STRIPPER SUPPORT
4	SCREW	22	SCREW
5	OIL SEAL	23	FLAT WASHER
6	EXTERNAL SNAP RING	24	SCREW
7	ANTI-ROTATION RING	25	SCREW
8	GYPSY	26	XR7 SERIES WINDLASS BASE
9	SERIES BAND BRAKE	27	STUD
10	BRASS PIN	28	GROWER
11	EXTERNAL SNAP RING	29	NUT
12	WASHER	30	SENSOR
13	BAND BRAKE SHAFT	31	7000W REINFORCING WASHER
14	BAND BRAKE LOCK	32	INTERNAL SNAP RING
15	KEY	33	BEARING
16	UNIVERSAL JOINT	34	XR7 BASE INSERT
17	ROD (SCREWS-WASHERS/CIRCLIP/ NUT)	35	XR7 SERIES WINDLASS SHAFT
18	BAND BRAKE HANDWHEEL	36	KEY
		37	PINS
		38	SCREW
		39	GROWER
		40	O-RING
		41	HUB FLANGE
		42	SCREW
		43	O-RING
		44	REDUCTION GEAR
		45	BASE INSERT
		46	REDUCTION GEAR CLOSING FLANGE
		47	SCREW
		48	KEY
		49	MOTOR 5.5KW 230/400V A
		49B	MOTOR 7.5KW 230/400V
		50	ADAPTER
		51	4000 W MOTOR FLANGE
		52	MOTOR 4000W 24V
		53	HYDRAULIC MOTOR FLANGE
		54	HYDRAULIC MOTOR
		55	CHAIN PIPE



No.	NAME		
1	LEVER	23	FLAT WASHER
2	DRUM	24	SCREW
3	DRUM DISC SPACER	25	SCREW
4	SCREW	26	XR8 SERIES WINDLASS BASE
5	OIL SEAL	27	STUD
6	EXTERNAL SNAP RING	28	WASHER
7	ANTI-ROTATION RING	29	GROWER
8	GYPSY	30	NUT
9	SERIES BAND BRAKE	31	SENSOR
10	BRASS PIN	32	REINFORCING WASHER
11	EXTERNAL SNAP RING	33	INTERNAL SNAP RING
12	EXTERNAL SNAP RING	34	BEARING
13	BAND BRAKE SHAFT	35	XR8 BASE INSERT
14	BAND BRAKE LOCK	36	XR8 SERIES WINDLASS SHAFT
15	KEY	37	KEY
16	UNIVERSAL JOINT	38	SCREW
17	ROD (SCREWS-WASHERS/CIRCLIP/ NUT)	39	GROWER
18	BAND BRAKE HANDWHEEL	40	O-RING
19	COUNTERSUNK SCREW	41	HUB FLANGE
20	CHAIN STRIPPER	42	SCREW
21	CHAIN STRIPPER SUPPORT	43	SCREW
22	SCREW	44	REDUCTION GEAR FLANGE
		45	TG150 GEARBOX
		46	REDUCTION GEAR CLOSING FLANGE
		47	SCREW
		48	KEY
		49a	MOTOR 5.5KW 230/400V
		49b	MOTOR 7.5KW 230/400V
		50	ADAPTER
		51	HYDRAULIC MOTOR FLANGE
		52	HYDRAULIC MOTOR
		53	CHAIN PIPE



No.	NAME				
1	LEVER	19	BEARING	38	CHAIN STRIPPER
2	DRUM	20	XR9 BASE INSERT	39	CHAIN STRIPPER SUPPORT
3	OIL SEAL	21	BEARING	40	SCREW
4	EXTERNAL SNAP RING	22	OIL SEAL	41	FLAT WASHER
5	ANTI-ROTATION RING	23	VERTICAL GEARBOX	42	KEY
6	GYPSY	24	HORIZONTAL GEARBOX	43	AC MOTOR
7	SCREWS	25	UPPER WASHER	44	HYDRAULIC MOTOR
8	SENSOR	26	SCREWS	45	CHAIN PIPE
9	SCREWS	27	SERIES BAND BRAKE		
10	XR9 SERIES WINDLASS BASE	28	BRASS PIN		
11	STUDS	29	EXTERNAL SNAP RING		
12	WASHER	30	EXTERNAL SNAP RING		
13	GROWER	31	BAND BRAKE SHAFT		
14	REINFORCING WASHER	32	BAND BRAKE LOCK		
15	OIL SEAL	33	KEY		
16	XR9 SERIES WINDLASS SHAFT	34	UNIVERSAL JOINT		
17	INTERNAL SNAP RING	35	ROD (SCREWS-WASHERS/CIRCLIP/ NUT)		
18	INTERNAL SNAP RING	36	BAND BRAKE HANDWHEEL		
		37	COUNTERSUNK SCREW		

RIVIERASeries

WINDLASS

REV 000A



W4 3024 DC - 3524 DC - 4000 AC - 5500 AC - HYDRO

W5 4024 DC - 4000 AC - 5500 AC - HYDRO

W7 5500 AC - 7500 AC - HYDRO

W15 15000 AC - HYDRO



Product serial number



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