



STRONGER

Simple & reliable

Safety, Installation, and Operation Manual for Anchor Winch

STRONGER «STELL HANDS 20»



STRONGER «STELL HANDS 30»



STRONGER «STELL HANDS 35»



STRONGER «STELL HANDS 35S»



STRONGER «STELL HANDS 35PRO»



This manual is strongly recommended to be READ BEFORE USE!

Should you have any questions after reading this Manual, please phone to the call center numbers shown in the warranty service coupon during working hours from 9 a.m. till 6 p.m. minding your local time zone.

Please observe all safety instructions in this Manual to prevent injury and damage to the anchor winch.

Read this Manual attentively for further correct use, setting up, operation and maintenance of the anchor winch.

Only person's familiar with the safety rules and guidance on operation are allowed to use this product.

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1 DESCRIPTION

“STRONGER” anchor is designed to lift and lower the anchor. The winch is designed with the function of free dropping (free fall) of the anchor for models 20, 30, 35,35S and model 35PRO with the additional function of anchor lapping to the water level and a further free fall anchor dumping. There is also the possibility of placement an additional wire control button to the dashboard(torpedo), or to another convenient place for installation, or for use with a wireless remote control panel.

2 SCOPE OF SUPPLY

Model	SH-20	SH-30	SH-35	SH-35S	SH-35PRO
ANCHOR WINCH	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
ANCHOR ROLLER	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
ANCHOR ROPE	98 feet (30 m)	98 feet (30 m)	131 feet (40 m)	131 feet (40 m)	131 feet (40 m)
POWER CABLE	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
USER MANUAL	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
U-SHAPED ARM	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
M10x90 mm safety LOCKING PIN	-	-	1 pc.	-	1 pc.
Safety M10 WING NUT	-	-	1 pc.	-	1 pc.
Safety SNAP SHACKLE	1 pc.	1 pc.	-	-	-
Safety RIGGING PIN	-	-	-	1 pc.	-
Safety R-CLIP	-	-	-	1 pc.	-
M8x45 mm BOLT	7 pcs.	7 pcs.	7 pcs.	7 pcs.	7 pcs.
M8 LOCKING NUT	7 pcs.	7 pcs.	7 pcs.	7 pcs.	7 pcs.
M8 WASHER	7 pcs.	7 pcs.	7 pcs.	7 pcs.	7 pcs.
PROTECTIVE THERMAL RELAY	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
COPPER BUS	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.

3 SPECIFICATIONS

Model	SH-20	SH-30	SH-35	SH-35S	SH-35PRO
pulling force	9 kg	13.6 kg	16 kg	16 kg	16 kg
rated capacity/rated voltages	80W/12V	85W/12V	120W/12V	120W/12V	130W/12V
minimum breaking force	90 kg	90 kg	90 kg	90 kg	90 kg
maximum diameter of winding layers	3.5 mm	4 mm	4 mm	4 mm	4 mm
maximum number of winding layers	9	9	11	11	11
power supply	12V	12V	12V	12V	12V
rated hoisting speed/maximum permissible limit speed	25 m per min / 30 m per min	28m per min / 40m per min	30m per min / 40m per min	30m per min / 40m per min	30m per min / 40m per min
thermal class	Y	Y	Y	Y	Y
primary coolant	air	air	air	air	air
method of cooling — direct	air	air	air	air	air
reference coolant — ambient	air	air	air	air	air
length of boat	up to 4 meters	up to 4.6 meters	up to 7 meters	up to 7 meters	up to 7 meters
anchor weight	up to 8 kg	up to 10 kg	up to 15 kg	up to 15 kg	up to 15 kg
continuous working time	15 min	15 min	15 min	15 min	15 min
dimensions	375x325x180 mm	375x325x180 mm	375x325x180 mm	375x325x180 mm	375x325x180 mm
weight	9 kg	8 kg	9.2 kg	9.2 kg	9.2 kg

STRONGER reserves the right to change specifications without notice.

4 SAFETY PRECAUTIONS WHEN USING THE PRODUCT

1. Never let anyone be in front of the winch anchor. If the anchor rope breaks, the anchor may cause serious injury.
2. Always use the anchor rope manufactured by STRONGER. Never change the anchor rope to a rope of another material, or a wire cable; the winch may fail.
3. The anchor winch is only designed to lift and lower the anchor. It is strictly forbidden to lift or move people and other weights!

It is also forbidden to tow the boat for the anchor rope of the winch, this will damage the product.

4. Check the anchor rope of the winch before each use for worn spots to prevent the loss of the anchor. In case of obvious wear, be sure to replace the anchor rope with a new one.
5. When connecting the winch to the battery, use only the power wires that come with the winch.
6. Ensure that all electrical connections comply with the electrical safety requirements.
7. Always unplug the winch from the battery when installing, moving or servicing.
8. When the boat is parked, transported or navigated by water, be sure to fix the anchor with a regular safety element. Or put the anchor directly in the boat. To avoid injury and premature failure of the winch.
9. Do not use an anchor of a larger weight than specified by the manufacturer for the particular winch model.
10. Never put in or insert any foreign objects under the winch casing; this may damage the winch or lead to serious injury.
11. Do not wear loose clothing or scarves near the operating winch. Loose clothing can get caught in moving parts of the mechanism, and as a result can bring injury or death.
12. Do not use the winch under the influence of drugs or alcohol.
13. The winch is not allowed for use by persons under the age of majority.
14. Use only the types of anchors that the STRONGER company-manufacturer recommends.
15. Never attempt to repair yourself the control unit and the electric circuit of the winch. This may lead to the failure of the winch and bring to a fire.
16. In case the anchor is caught, never attempt to wrest the anchor by using a winch. This may lead to the destruction of parts and the failure of the winch. In this situation, by pressing the anchor reset button release the desired amount of anchor rope, then wind the anchor rope on the belaying cleat installed on your boat and try to free the anchor with pulling up by the boat engine.
17. Do not operate the winch simultaneously using the button on the winch cover, an additional control button or remote control. Always use only one of the possible methods of controlling the winch.
18. It is forbidden to use anchor rollers of other manufacturers, as this can lead to breakage of the winch mechanism.
19. When the winch is not in use, the free anchor release mechanism must be locked in place by pressing the anchor lift button. In this case (the coil must not rotate freely)! Failure to follow this rule will result in loosening of the coil retaining spring and further damage to the coil.
20. It is strictly forbidden to forcibly stop the anchor winch (press the anchor lift button) at the moment of anchor dropping until it reaches the bottom and the anchor rope stops unwinding from the winch coil. This can lead to the destruction of its mechanism!

21. Route the end of the anchor rope into the transparent polymeric tube supplied with the anchor winch to prevent cuts and abrasion of rope on the bottom of the pond, which leads to the destruction of the anchor rope.

22. Do not use the winch if your battery does not hold the load when you testing it with a load fork. If the battery voltage drops below 9 volts, the winch control unit (relay) may fail. In this case, repair and replacement of damaged parts will be at the expense of the buyer and will not be a warranty case.

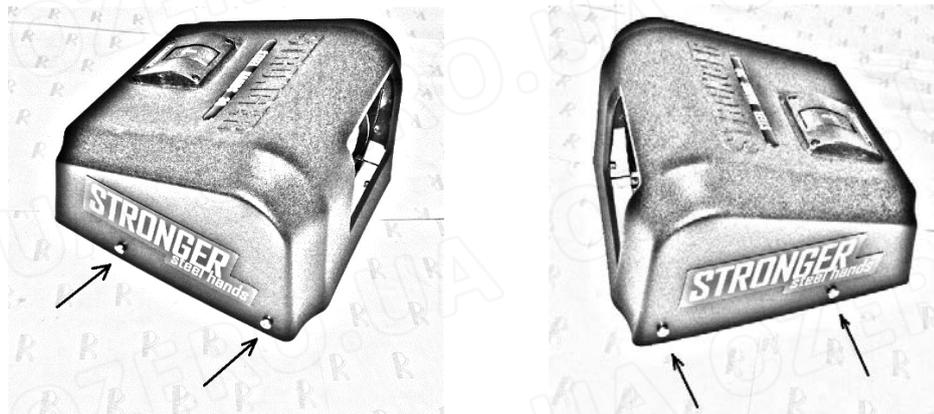
5 WINCH INSTALLATION

Unpacking

When unpacking, pay attention to any damage that might have occurred to your anchor winch during transportation and delivery. In case of detection of shipping-related defects, please contact your carrier to reimburse you for damages related to poor delivery of the goods.

Installation

Unscrew the 4 screws and remove the winch cover. Make sure that all bolts are tightened and all electrical connectors are connected.



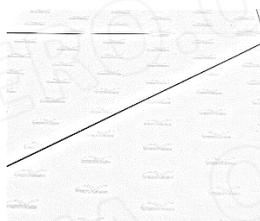
The anchor winch can be installed on the bow of the boat.

10. When installing on a thin-walled deck, you can buy a boat a mounting platform separately, or strengthen the installation site with Bakelite plywood or other dense material to provide the largest area of the reinforced section and load distribution.

Please note, the anchor winch should be installed on a flat surface, so do not violate the body geometry when tightening the bolts of the winch frame.

Important: When installing the winch, the center of the anchor roller must coincide with the center of the spool and is on the same straight line with it. This is necessary for the correct operation of the winch mechanism. In case of non-observance of this condition, the anchor rope may fall outside the spool, which in turn can lead to spontaneous dropping of the anchor and/or failure of the winch, which is not considered a warranty case.

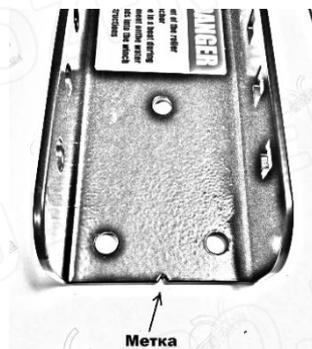
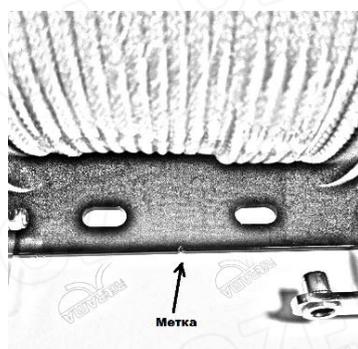
1. Place the anchor roller on the deck in the right place. It is important that the roller of the anchor roller goes out beyond the edge of the boat, so that the anchor does not catch or fall on the boat's body when it falls or rises.
2. Draw a straight line on the deck at the intended location of the winch.



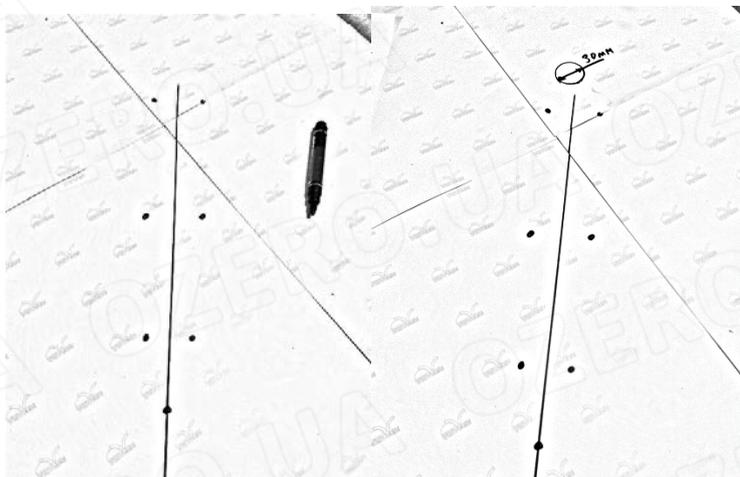
3. Carry out the marking by attaching the winch and the anchor roller to the installation site, so that the centre of the winch spool being aligned with the centre of the anchor roller.



For convenience, special marks are made on the winch frame and on the anchor roller.



4. Mark the locations for the holes of the mounting bolts of the winch frame and the cable entries. Diameter of the holes for the bolts is 8.5~9 mm; the hole for the cables is $\varnothing 30$ mm.
5. Inspect the area below the deck of the boat and check that there are no obstacles to the winch installation. Drill the holes.



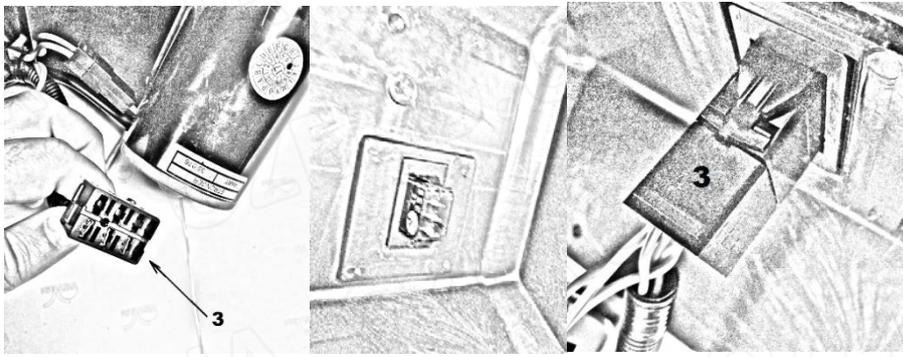
6. Install the winch and the anchor roller on the deck, secure them with seven M8 bolts, by inserting the washers from the back of the deck, which are in the set of fasteners. Depending on the thickness of the deck and the material, which it is made of, it may be necessary to strengthen it in the place of fastening, as described earlier.



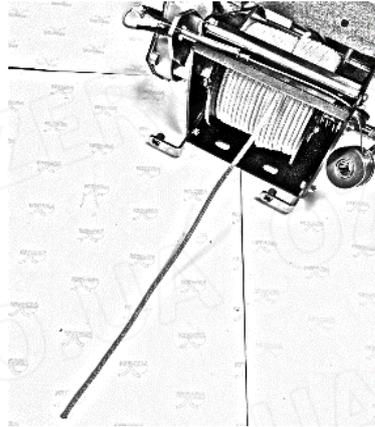
7. Route a separate power cable, coming with the package, from the battery to the winch. Connect the power cable to the winch by connecting the winch connector 1 and the power cable connector 2.



8. Connect the winch connector 3 to the control button located on the winch cover.



9. Remove the protective film from the winch spool by freeing the anchor rope, unwind 8~12 in. (20~30 cm) of the anchor rope.



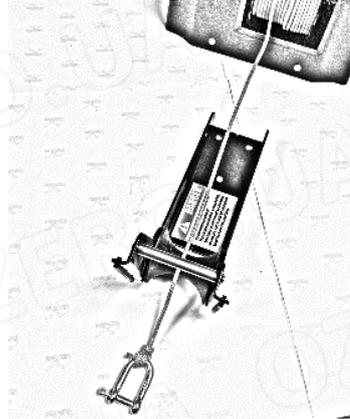
10. Install the winch cover and secure it with 4 bolts. Thread the anchor rope through the window on the front of the winch cover. Connect the power cable to the battery, observing the polarity indicated on the labelling stickers. Not observing the polarity when connecting leads to the failure of the winch mechanism, which is not a warranty case. If the polarity is not maintained, the winch will not work.

Important: Be sure to use the thermal relay that comes with the power cable.

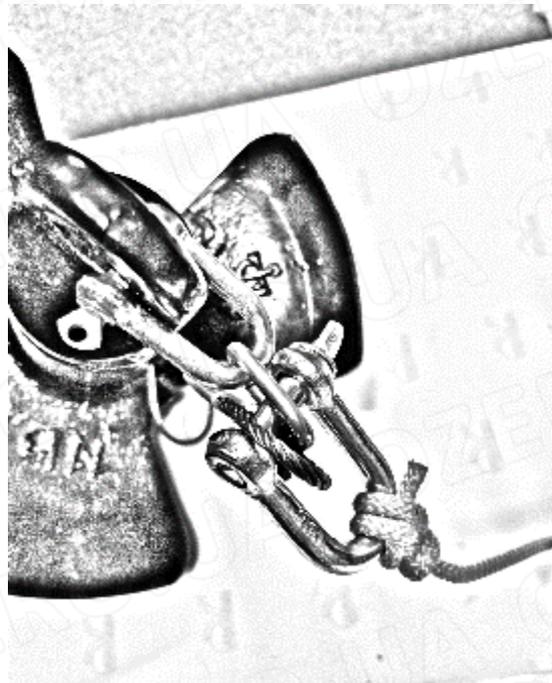


Using a product without a thermal relay can lead to a fire and a threat to your life! By no means change its position and disconnect it from the power cable!

11. Press the “Down” button — the spool with the anchor rope is unlocked, (for the SH 35PRO winch, unlocking will occur after the anchor rope has been unwound from the reel by 1.20 cm). Pull the anchor rope and rewind the required length; thread the rope through the anchor roller and tie the U-shaped arm to attach the armature to the end of the rope.



13. Fix the anchor in the U-shaped arm, press the “Up” button and hold it; the winch lifts the anchor, which goes into the anchor roller. Then immediately release the “Up” button. If you don't release the button in time, it is possible that the thermal relay will trip for a while, but after a while, thermal relay will turn on again and the winch will be ready for operation.

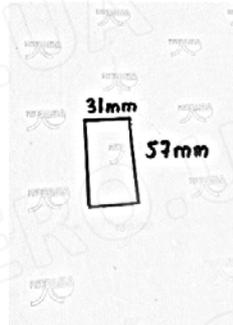


Remote control button for the anchor winch

The remote control button can be installed in any convenient place, e.g. on the torpedo dashboard of the boat. The button is not included in the scope of supply of the winch and it can be purchased separately at the winch purchase site or from any other authorized dealer.

The remote control button set includes a wire with a connector that you need to connect to the mating part on the winch.

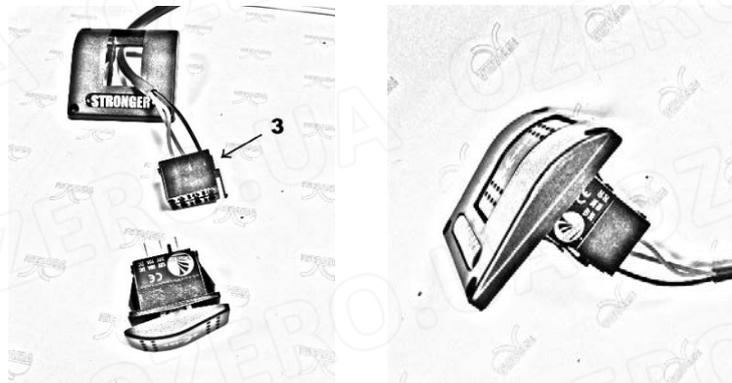
Do a rectangular hole of 1.2x2.25 in. (31x57 mm) in the console of the boat.



Install the panel for the button and fix it with the 4 self-tapping screws that come with the set.



Route the control cable from the console to the winch. Connect the button to the control cable and insert it into the panel.

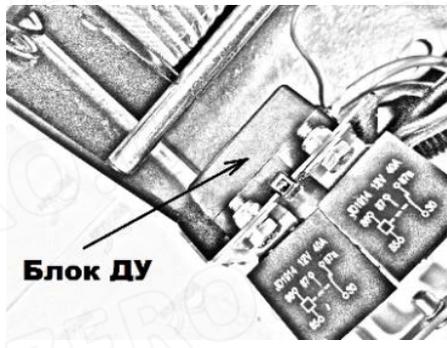


Connect the winch connector 4 to the control cable connector 5.

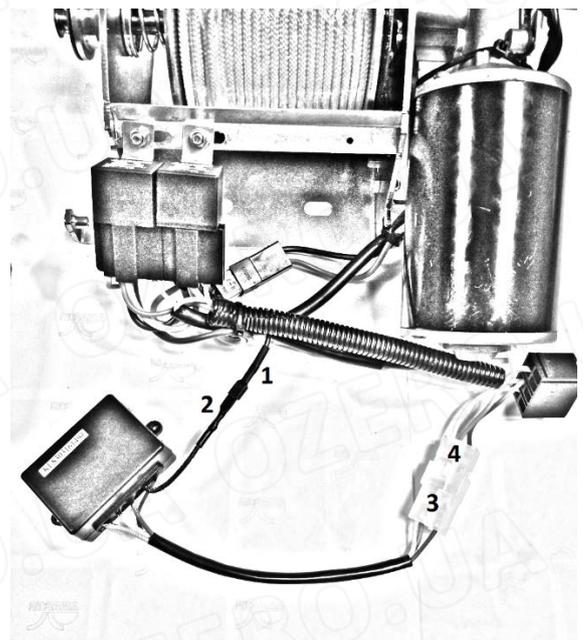
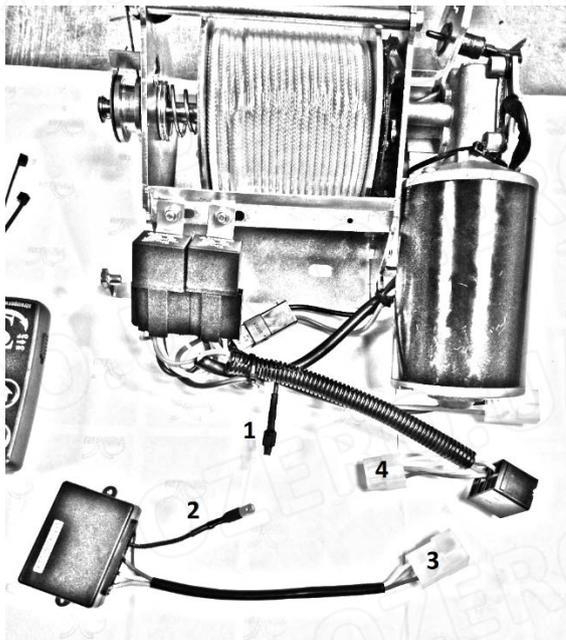


Installation of the wireless control unit

Attach the radio control module to the mounting plate of the relay.



Connect the winch connector 1 to the connector 2 of the radio control module. Connect the connector 4 of the winch to the connector 3 of the radio control module. The winch is ready for operation.



On the remote control, slide the switch to the “ON” position, then operate the winch with the arrow buttons. After finishing the work, move the switch to the “OFF” position; this will prevent accidental pressing of the control buttons and save the battery charge.

Replacement of anchor rope

The anchor rope is factory-installed, but if you need to replace it with a new one, insert the edge of the rope through the hole located on the inner surface of the spool and tie the knot on its outer side so that the knot can be retracted into the hidden hole located on the outside of the spool. Pull the rope so that the knot is tightly adjacent to the hidden hole. Make sure that the rope does not get tangled and caught. Hold the rope under tension while winding; use gloves. Press the “Up” button and hold it until the rope is neatly spooled. Release the button in case of incorrect spooling and repeat the procedure again.

The anchor rope, supplied with the winch, meets all safety requirements and declared loads.

Important: Do not wind more rope on the spool and do not use a rope with a larger diameter than stated by the manufacturer in the specification.

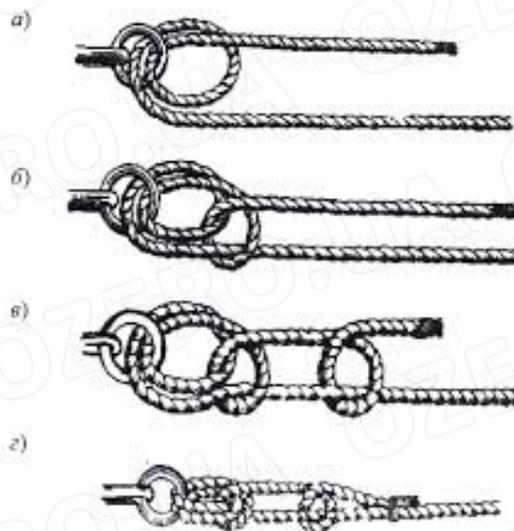
Do not let knots, carabines, chains, or other objects get under the cover of the winch.

In case of non-observance of these conditions, the anchor rope may fall outside the spool, which in turn can lead to spontaneous dropping of the anchor and/or failure of the winch, which is not considered a warranty case.

Use of the anchor

On this type of rope anchor winch, it is recommended to use anchors of Mushroom type, River type or Hall type.

After securing the U-shaped arm for anchor, check the reliability of the knot to prevent loss of the anchor.



6 OPERATION

The operating principle of the “STRONGER” anchor winch

Lowering the anchor:

By pressing the “Down” button (bottom of the button), located on the top of the winch, or the remote control button, the anchor in free fall will lower to the bottom of the reservoir, for SH20, 30, 35, 35S

winch. After the anchor has started a free lowering, release the button and it will automatically return to its original position. For the SH 35PRO winch, when the “Down” button is pressed, the winch will smoothly lower the anchor by 1.20 m into the water with the help of a motor, and then the anchor will be released freely.

Important: It is forbidden to press the “Up” button (top of the button) of the winch or of the remote control during the free lowering of the anchor. This will lead to the failure of the winch and the destruction of the mechanical parts of the winch, and in the future to rejection of warranty repair.

Boat anchoring

After you have lowered the anchor, you are anchoring the vessel. To do this, you need to press the “Up” button (top of the button) of the winch itself or of the remote control panel to lift the anchor. The winch will start spooling the anchor rope. This action will serve as a signal for you that the winch has brought the mechanism in readiness for anchoring the vessel; after that, you can release the anchor lift button, so your boat will take the parking position.

Lifting the anchor

When lifting the anchor, press the “Up” button (the top of the button). The lifting will start. After the anchor has come to its original position on the anchor roller, release the button, and it will automatically return to its original position. In case you kept the button too long while lifting the anchor, the thermal relay may be activated. After the protection has tripped, the thermal relay will automatically return to operating mode within a few seconds, and the winch will again be ready for operation.

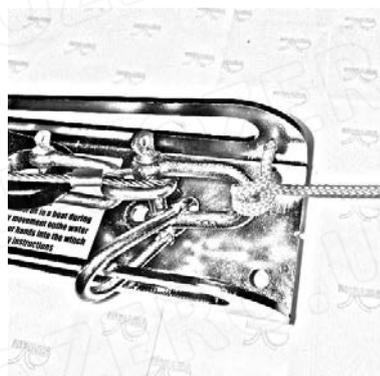
The anchor winch is not designed for continuous operation. Do not use the winch for more than 15 minutes when loading. The allowed interval is 20~30 minutes after each operation.

Important: The winch is designed to lift the anchor and not to move the boat, pulling her on the carriage or mooring.

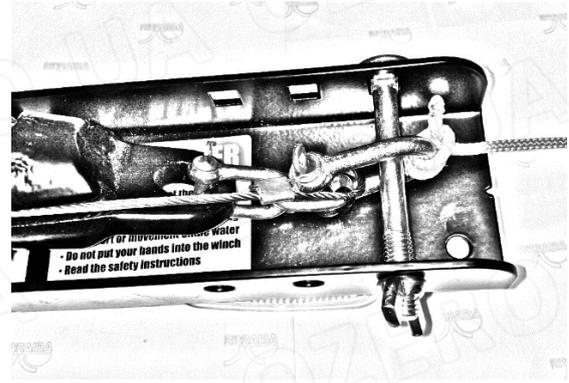
Safe use of the anchor winch on water.

When navigating on water, and especially when waving, the anchor should be placed in the boat to ensure the safety of your floating device and your personal safety. After use, fix the anchor in the anchor roller with the fixing device included in the winch kit to avoid damage caused by accidental dropping of the anchor during sailing.

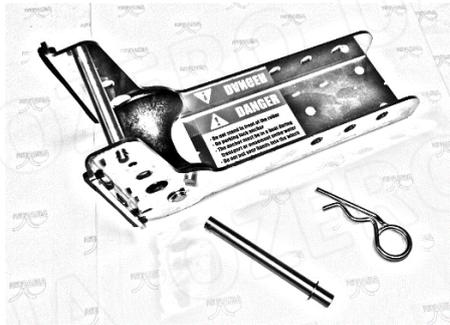
For SH-20 and SH-30 models



For SH-35 model



For SH-35S model



7 MAINTENANCE

Care and maintenance

To prolong the life of the winch, the user must maintain his or her anchor winch once a year.

All the main parts of the winch mechanism must be lubricated, and the consumable elements of the winch must be replaced, if necessary, as well.

Relay replacement

If necessary, it is possible to replace the relay in the control unit independently. For this, unscrew the two bolts on the relay bracket, then remove the relay from the connector and replace it with a relay with similar characteristics; after that, secure the relay with a bolt to the relay bracket. It is worth using the relay recommended by the manufacturer.

Any intervention in the electrical wiring control circuit of the winch, other than changing the relay, leads to a loss of warranty for the product.

Salt water, flushing

To minimize corrosion from the action of salt water, it is recommended to wash the winch and the anchor roller with fresh water. Simply direct the hose into the cable hole on the cover, flush the winch, and near it to remove any residual salt water.

Care of the anchor roller

When a squeak appears during the roller rotation in the anchor roller, it must be flushed with fresh water. After flushing, the axis of the anchor roller must be lubricated with a refractory water-repellent lubricant. Be sure the anchor enters the anchor roller cleared of silt.

8 WARRANTY

This warranty is granted to the direct purchaser, without transfer to third parties. STRONGER reserves the right to repair or replace any part of the winch that could fail or be defective within one year from the date of purchase at its discretion. For warranty repair or replacement of the winch, the buyer must provide a warranty card with the confirmation of the date of purchase and notify the dealer in all convenient ways and contacts about the warranty repair.

Rejection of warranty:

The warranty voids in case of non-compliance with the instructions contained in this operating manual for the winch. This warranty applies to defects in materials, which the winch is manufactured of.

In the event of misuse or abuse, improper installation, accident, use of the product in a state of alcoholic intoxication, alteration of design, or improper maintenance, the product warranty will be refused.

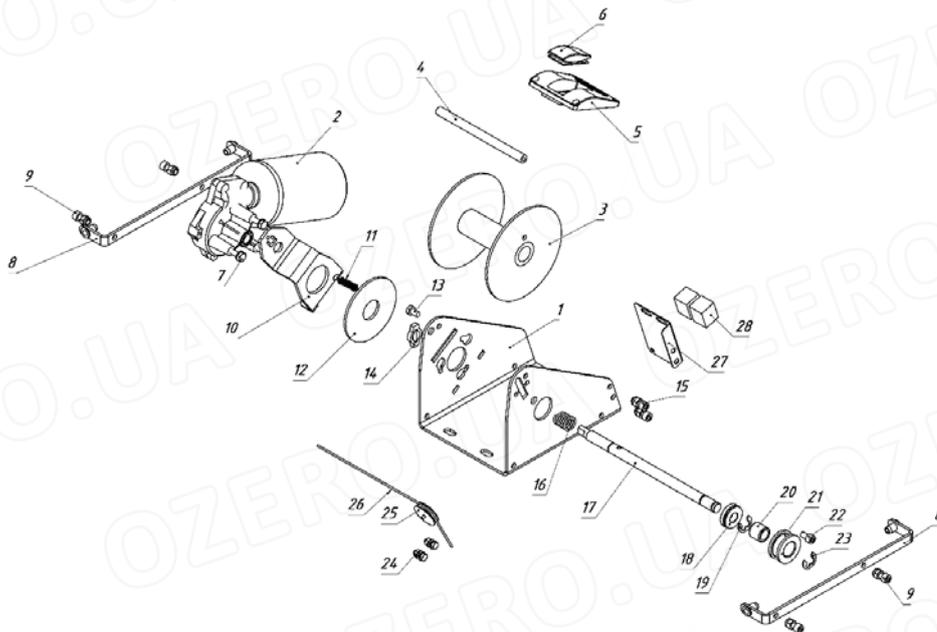
Any damage resulting from improper use of the anchor winch is not covered under warranty repair. The cost of installation or removal of the product in the event of return of the winch, as well as its transfer and delivery by the buyer is not reimbursed.

This is an exclusive remedy, and our company does not bear any responsibility for any incidental or consequential loss or expense. This limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

In the event of disputes that cannot be resolved through negotiation, you have the right to resolve issues in court.

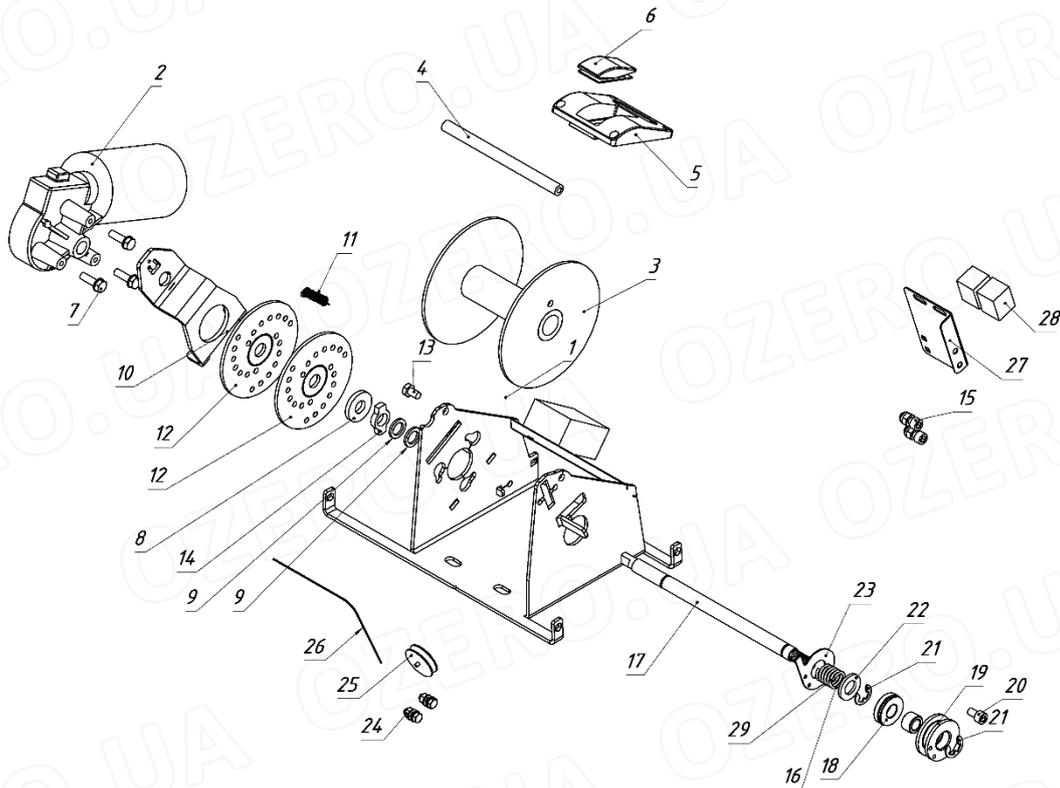
9 LIST OF SPARE PARTS MODELS SH-20, SH-30, SH-35, SH-35S

1. Frame
2. Electric motor
3. Spool
4. Frame distance bar
5. Control button panel
6. Up/Down button
7. Motor hold-down bolt
8. Cover fastening bracket
9. Bracket fastening bolt
10. Clutch release tab
11. Micro switch
12. Brake disc
13. Frame distance bar fastening bolt
14. Fixing device
15. Relay box fastening bolt
16. Spring for spool
17. Shaft for spool
18. Thrust bearing
19. Retainer washer
20. One-way bearing
21. Roller
22. Lock screw
23. Retainer washer
24. Pulley wheel fastening bolt
25. Pulley wheel
26. Cable
27. Relay box fixing rack
28. Relay box



9 LIST OF SPARE PARTS MODELS SH-20, SH-30, SH-35, SH-35S

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19. Roller
20. Lock screw
21. Retainer washer
22. Retainer washer
23. Limiter washer
24. Pulley wheel fastening bolt
25. Pulley wheel
26. Cable
27. Relay box fixing rack
28. Relay box





EN 14492-1:2006+A1:2009
EN 60034-1:2010
2017



Anchor Winch

Model

SH-

Serial number

Release date

2019 Stronger LLC.