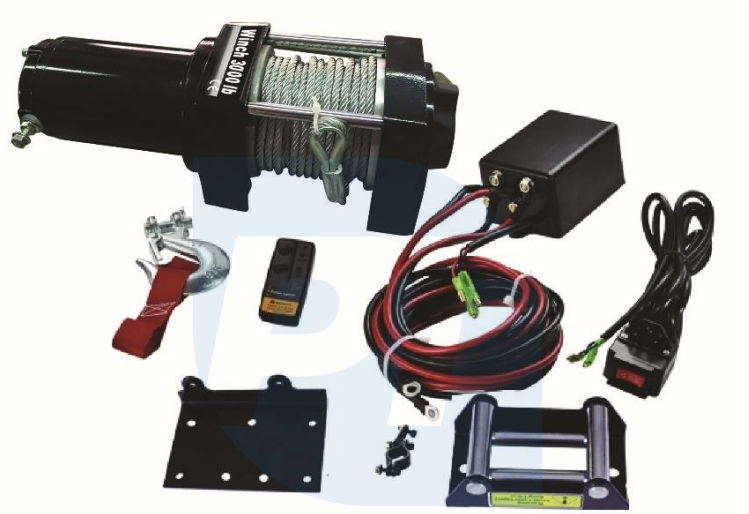
Winch 12V 1360kg

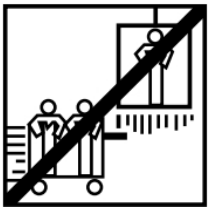


Pro-Tech shop

Instructions for use

Translation of the original instructions

Please read this manual before use



This winch is designed to carry loads at ground level or on a hill. It is not designed or intended for lifting.

The winch shall not be used for lifting or carrying persons.

This winch is designed for intermittent use due to heating of various components during operation. If the motor end overheats, stop the winch and allow the motor to cool.

SAFETY INFORMATION

Throughout the manual you will find the following designations:

Danger: Indicates a hazardous situation that could result in death or serious injury if not avoided.

Warning Indicates a potentially hazardous situation that could result in death or serious injury if not avoided.

Caution Indicates a potentially hazardous situation which, if not avoided, will cause minor or moderate injury or damage to equipment/property. This indication also informs about unsafe practices.

3000LBS specification:

Rated rope capacity: 3000 lbs (1361 kg) per rope Motor：

1.0kw/1.34hp 12V, permanent magnet,

Conversion ratio：153:1

Cable (H x L)：Φ4.8mmX13.5m Control switch cable:3m Battery

cable: 1.83m

Drum size (W X D) ：Φ1.24 "X2.88"(Φ31.5mmX73mm) Overall

dimensions (L X W X H)：300mmX103.5mmX106mm Fixing screw

pitch: 3.13" (79.5mm)

ROPE SPEED (FIRST LAYER) 12V

Rope capacity	Lb	WITHOUT	1000	2000	3000
	Kg	OBJECTIVES	454	907	1361
Rope speed	ft/min	9.5	6.6	4.3	2.3
	m/min	2.9	2.0	1.3	0.7
Engine	Amps	10	25	60	150

Rope capacity

Rope layers		1	2	3	4	5	6
Rated cable capacity per layer	Lb	3000	2370	1960	1670	1460	1290
	Kg	1361	1075	889	756	662	585
Total cable capacity	ft	4.6	10.8	18	22	27.9	33.4
	m	1.4	3.3	5.5	6.7	8.5	13.5

SAFETY INFORMATION

Throughout the manual you will find the following designations:

Danger: Indicates a hazardous situation that could result in death or serious injury if not avoided.

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Warning: Indicates a potentially hazardous situation that, if not avoided, will cause minor or moderate injury or damage to equipment/property. This marking also informs of unsafe practices.

Important: Provides additional information on the installation and operation procedure of the winch.

Important Note: This winch is designed to carry loads at ground level or on a hill. It is not designed or intended for lifting.

GENERAL SAFETY INFORMATION

The winch is a very powerful device. If used unsafely or improperly, damage to property or personal injury can occur.

WARNING: The operator is responsible for the safe installation and operation of the winch, securing the winch, and preventing injury and property damage. When working with
equipment, remember to use common sense and observe all safety precautions to ensure safe operation.

Warning: the rope may break before the winch stops. For heavy loads, use a sling to reduce the load on the rope.

1. The maximum working load is on the rope layer closest to the drum.
DO NOT OVERLOAD THE EQUIPMENT OR THE ROPE. DO NOT EXPOSE THE EQUIPMENT FOR LONG PERIODS OF TIME
HIGH LOAD. Overloading can damage the winch and/or rope and cause a hazard during operation. FOR LOADS EXCEEDING 1/2 OF THE RATED CAPACITY, WE RECOMMEND THE USE OF AN OPTIONAL STRAP KIT THAT
WILL PROVIDE AN ADDITIONAL LAYER OF ROPE. This will reduce the winch load and rope tension by approximately 50%. Attach the hook to the carrier. The vehicle engine should be running while the winch is running. If the winch is started when the vehicle engine is off, the battery may be too weak to restart the engine.

2 After reading and understanding these instructions, learn how to use the winch. After assembling the winch, work with it to familiarize yourself with its operation
.
3. DO NOT move the vehicle to help the winch pull the load. The combination of the winch and vehicle movement can overload the rope and winch.

4. ALWAYS STAY CLEAR OF THE ROPE, HOOK AND WINCH. In the event of any accident caused by the failure of any part of the winch, it is then best to stay clear of the winch.

5 Always check the ropes and accessories carefully at regular intervals. Damaged ropes must be replaced immediately.

6 Wear suitable leather gloves when handling the rope. Do not let the rope slip over your hands.

7 Never lift a load with less than 5 turns of rope around the winch drum, as the rope coupling may not hold a full load.

8 Never insert your finger into the hook. If your finger gets caught in the hook, you may cut your finger. ALWAYS use appropriate finger protection when inserting or removing line from the hook.

9. NEVER pull the rope through the hook at the end of the rope as this could damage the wire rope. Use a nylon sling.

10 When pulling heavy loads, it is a good idea to cover the rope at the end of the hook with a blanket or jacket.
If the rope is damaged, the blanket or sheath will act as a shock absorber and prevent the rope from breaking.

11. DO NOT continually pull the load at a VERY sharp angle as this will cause the cable to become caught on one end of the drum. This can cause the winch cable to jam and damage the cable or winch.

12. NEVER REMOVE WARNINGS ON THE DEVICE.

13. The winch may only be used when the field of vision of the object being towed is clearly visible.

14. Equipment such as couplings, hooks, blocks, straps, etc., should be sized for the type of winch involved and should be checked regularly for damage.

15. NEVER RELEASE THE CLUTCH IF THERE IS A LOAD ON THE WINCH.

16. NEVER WORK ON OR NEAR THE WINCH DRUM WHEN THE WINCH IS LOADED.

17. THE WINCH MUST NOT BE USED IF THE OPERATOR IS UNDER THE INFLUENCE OF DRUGS, ALCOHOL OR MEDICATION.

18. ALWAYS DISCONNECT THE ELECTRICAL POWER CABLES CONNECTED TO THE BATTERY BEFORE WORKING ON OR IN THE DRUM FIELD TO PREVENT ACCIDENTAL START-UP OF THE WINCH.

19. when handling the load, slowly pull the rope out until it is taut. Then stop work and check all winch connections. Check that the hook is correctly fitted. If you are using a nylon sling, check the attachment of the load.

20. When using the winch to transport a load, put the gear lever of the vehicle in neutral, brake and lock all wheels.

21. DO NOT USE THE WINCH TO PULL A LOAD THAT IS IN PLACE. In such other load securing devices, such as lashing straps, must be used.

22. USE ONLY APPROVED REMOTE SWITCHES AND ACCESSORIES CONTROLS. Use of unapproved components may cause personal injury or property damage.

23. DO NOT WORK ON ANY PARTS OF THE WINCH. Such modifications may weaken the construction of the winch.

24. DO NOT CONNECT THE TRACTION HOIST TO THE DOMESTIC MAINS WITH VOLTAGE 110 V OR 220 V, AS IT MAY BURN OUT OR CAUSE A FATAL ELECTRIC SHOCK.

25. Never use the winch to lift loads that are shaking and in constant motion.

26. Care must be taken when pulling or lowering loads onto a ramp or inclined surface. Keep persons, animals and belongings out of the working area of the load.

27. To ensure safe operation, the switch assembly must be free of dirt and moisture.

28 To prevent unauthorized use of the winch, remove the control unit and store it in a clean, dry place.

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ASSEMBLY

Note: No part of the vehicle (guide rails, wiring, additional lights, tyres, etc.) must obstruct the winch. During assembly, check that all parts of the vehicle and winch are functioning properly. Ensure that the position of the winch does not significantly reduce the field of view of the working area of the unit.

Step 1)

Mount the winch on a solid base. Ensure that the support element is strong enough to provide adequate support for the tensile forces of the winch.

Step 2)

When installing, always remember that the winch is to be operated with the rope on the rope drum. The winch is designed to unwind and wind the rope in one direction. Do not turn the winch operation in the opposite direction.

WARNING: Batteries contain flammable and explosive gases Remove metal jewelry during installation. Do not touch the batteries when connecting.

INSTALLATION OF CABLING

Step (1)

Run a black wire (1.32 m) from the control unit to the negative terminal of the motor.

Step 2)

Run the red wire (1.32 m) from the control unit to the positive terminal of the motor.

Step 3)

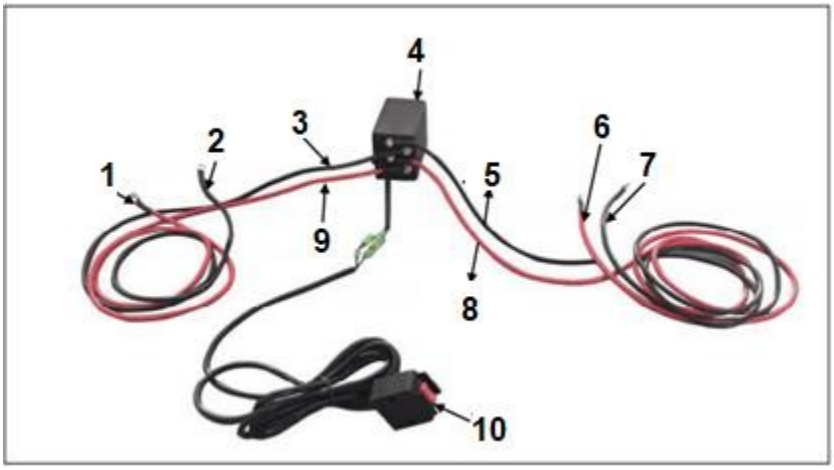
Route the black cable (1.85 m) from the control unit to the negative terminal of the battery.

Step (4)

Run a red wire (1.85 m) from the control unit to the positive terminal of the battery.

Step (5)

Connect the **three-point cable** from the control box to the hand control (or wireless remote if purchased with the winch), **black to black, red to red, and blue to blue** (Figure 1).



1. connected to the motor "+"

2. connected to the engine "-"

3. black 1,32m

4. black control box

5. black 1,85m

6. battery connection "+"

7. connection to battery "-"

18. red 1,85m

9. red 1,32m

10. wired control

HANDLING OF THE DRUM

Pull and turn the clutch knob to the "Free" position as shown in Figure 9. If there is ballast on the rope, you may have difficulty pulling the clutch knob. DO NOT FORCEFULLY PULL OR TURN THE CLUTCH KNOB. Release the tension on the clutch by loosening a section of rope. Loosen the clutch and pull the rope out and attach it to the anchor or load. Check that there are at least five turns of rope on the drum. Re-engage the drum by turning the clutch knob to the "On" position. (See Figure 2). To check the direction of rotation of the drum, turn on the winch with the rope outstretched. If the drum rotates in the wrong direction, check the wiring.

Caution：Turn the clutch knob in the direction of the arrows and the instructions to turn the winch gear on or off.



Fig. 2

LANO

1 Rope life is directly related to maintenance. The ropes on a new winch and any replacement ropes must be rewound under a minimum load of at least 100 lb before the winch is used. Failure to do so will damage the ropes. Inspect the rope before use. Damaged, frayed, or kinked ropes significantly reduce the load capacity. Replace damaged rope.

2. Proceed in such a way as to avoid twisting the rope.

(A) The rope starts to turn. At this point the rope must be straightened.

(B) The rope was pulled and the loop caused a knot. The rope is permanently damaged and should not be used.

(C) The effect of the knot is that each rope pulls a different load, causing the ropes under the greatest tension to break and reducing the load capacity of the rope.

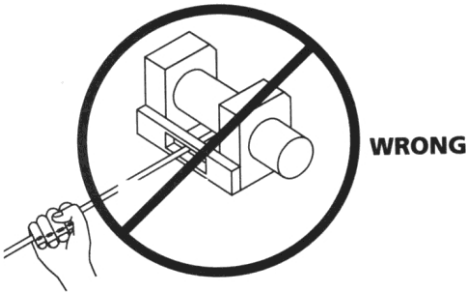
3. If the rope needs to be re-wound without load after use, hold the switch cable in one hand and the rope in the other. Wind the rope slowly when approaching the winch. Repeat this procedure. Always release the switch before your hand gets within four feet of the belt (if attached).

4 Make sure the rope is evenly distributed on the drum. A loosely wound drum will cause the rope to drop and jam.

5 It is not recommended to lubricate the rope with any lubricant due to contamination, as lubrication leads to a reduction in the service life of the rope.

ROPE CHANGE

Fig, 3



1 If the rope is worn or beginning to show signs of damage, it must be replaced before further use. To do this, remove the damaged rope. Unscrew the screw on the drum and release the rope.

2 Insert the end of the new rope and fasten the screw firmly.

3. activate the coupling and screw the new rope onto the drum, maintaining the correct rope tension on the spool.

WARNING: Replace the rope with an identical replacement rope recommended by the manufacturer.

WINCH PREPARATION

Danger: wear suitable leather gloves when handling the rope. When Always use suitable hand protection when handling the hook. Never insert your fingers into the hook. Inserting fingers into the hook can cause injury.

1 When locking the vehicle, the parking brake must be set, the brake applied and the wheels locked. The vehicle's parking brake must be applied and the automatic or manual gearbox must be in neutral.

WARNING: Check switches and cables for damage, pinched, twisted or loose cables. A damaged cable can cause the winch to start immediately after plugging into an electrical outlet.

(2) When using a remote switch in a vehicle, the connecting cable shall always be routed through the window to prevent it from being pressed by the door.

WINCH OPERATION

DANGER: Never touch the rope or hook when these components are under tension or load. Even when the winch is not running, the ropes may be under tension. Never pull a taut rope by hand (see Figure 3).

1. A reel with at least five layers of rope around the reel drum. With fewer wraps, the rope may slip off the drum when loaded.

2. When hauling a load, place a blanket, coat or tarp over the rope near the end of the hook (see Figure 4). This will mitigate rope breakage and prevent serious injury. Raise the cover to ensure adequate windshield protection.

Warning: pay attention to the rated capacity of the winch and do not exceed it.

WARNING: If the load exceeds the maximum rated capacity of the winch, the external switch will automatically shut down the winch. To reset the switch, release the switches. Please note that the winch cannot be restarted until the winch motor has cooled down.

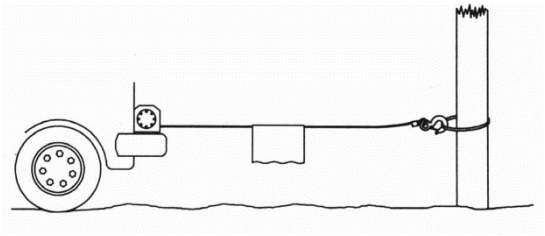
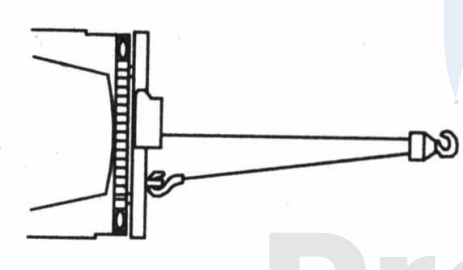


Fig. 4

3 Rope lifted with sling (see Figure 5) to reduce the load on the winch, rope and battery. A double layer of rope will also reduce the speed of the winch rope. Make sure that all devices used match the maximum rope tension. With a double layer of rope, the shackles should be set to match at least twice the winch rope tension value.

ENTER

Fig. 5



4. If the towing bracket is to be mounted on a winch with a double layer of rope, it must be secured to the frame of the vehicle.

5. Pulling should be done in a straight line to reduce rope build-up at one end of the drum.

6 The vehicle engine should be running while the winch is running. If the winch is started when the vehicle engine is off, the battery may be too weak to restart the engine.

Warning: use straps to avoid pulling at sharp angles.

Uneven rope layering will cause serious damage to the winch and rope. This can be remedied by securing the load, unwinding the rope and placing it on the opposite end of the drum.

Danger: Do not disengage the clutch under load, If the winch is equipped with an idler clutch, make sure that the rope is not taut when the clutch is disengaged. Before pulling the load, do
make sure the clutch is fully engaged.

Warning: use a winch to move the load. Do not assist the winch with additional vehicle movement. Combining the winch with vehicle movement can overload the rope and winch.

DANGER: Never use the winch to move a load that is in place. None of our winches are designed to permanently hold a load in one position. If this happens, the rope may uncoil or break due to the fixed load. The load should be secured with other components and the winch hook should be removed from the load.

INSTALLATION OF THE ROPE

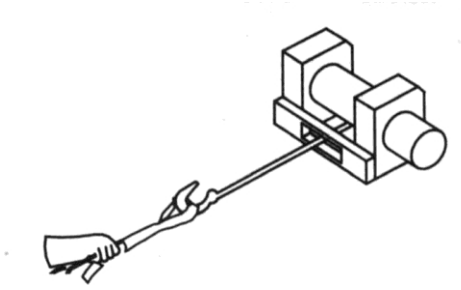


Fig. 6

Warning: take plenty of time when installing the rope. Improper rope installation can cause damage to the vehicle and equipment. It can also cause injury.

1. Never touch the rope or rope equipment when the operator is operating the equipment.

Note: When attaching the rope to the anchor point, use a nylon sling. Do not attach the hook with the other side to the rope. This may cause the rope to break.

Warning: always use a finger protector (Figure 6). Do not hold the hook by hand. This is important not only when winding the rope, but also when removing the rope from the winch under power.

Environmental protection



Electrical products must not be disposed of with household waste. They must be disposed of in designated recycling facilities. For information on how to dispose of electrical appliances, contact your local authority



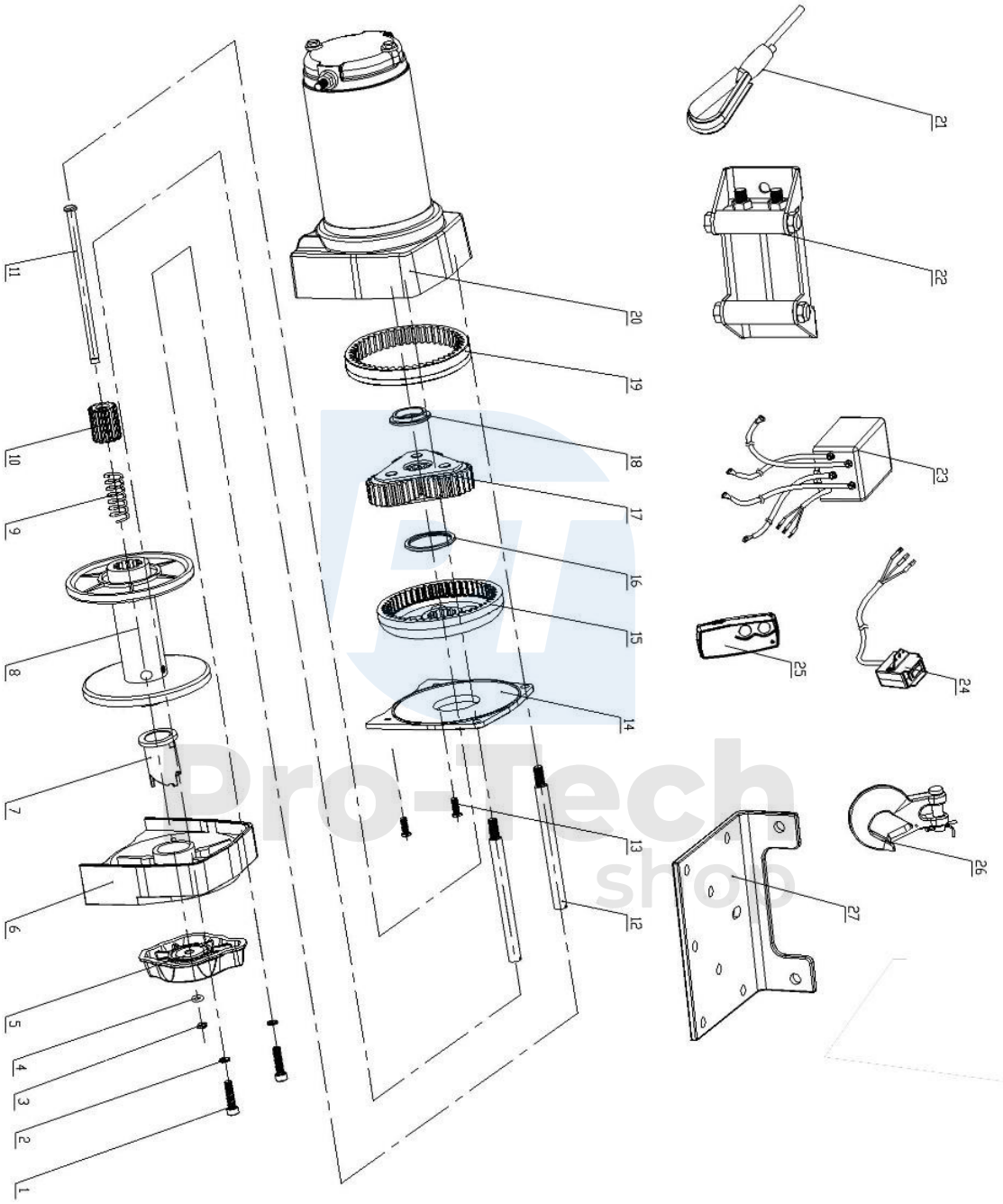
Safe operation of the appliance is only possible if you have read all the information on operation and safety behaviour in full and if you have strictly followed the recommendations given in this manual.

In addition, please read the section of the manual on safety rules

Before using the device for the first time, ask for a practical

demonstration

WINCH PARTS LIST



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Winch parts list

Partial number	Description	Quantity
1	Nut M5X20	2
2	Spring washer M5	2
3	Dividing washer Φ 4	1
4	Washer Φ 6	1
5	Clutch handle	1
6	Rear console	1
7	Bearing	1
8	Drum	1
9	Spring	1
10	Clutch shaft	1
11	Hammer	1
12	Stick	2
13	Cap (zinc colour)	2
14	Gearbox cover	1
15	Run	1
16	Pad	1
17	Planetary gearbox	1
18	Planetary seal	1
19	48-tooth run	1
20	Motor unit	1
21	Steel rope	1
22	Rope guide "S"	1
23	Control box	1
24	Control unit	1
25	Remote control receiver	1
26	Hook ¼	1
27	Fixing plate "S"	1

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Problem solving

The problem	Possible cause	Solution
The motor does not run or only runs in one direction	1. faulty switch 2. damaged wiring or incorrect wiring 3. faulty motor	1. replace the switch 2. check the connection is correct 3. replace or repair the engine
The engine is overheating	1. long working period 2. congestion 3. faulty motor	1. wait for the engine to cool down 2. remove the component that is causing the appliance to overload 3. replace or repair the engine
The motor is running but has no power or the rope speed is too low	1. weak battery 2. the cable connecting the battery to the winch is too long 3. incorrect battery connection 4. unsuitable substrate 5. faulty motor	1. charge or replace the battery and check the charging system 2. the cables connecting the battery to the winch are long enough 3. check the battery terminals for corrosion and clean them if necessary 4. check and clean the joints 5. replace or repair the engine
The motor runs, but the drum does not rotate	1. the clutch is not engaged	1. engage the clutch
The reel works in reverse	1. incorrectly connected motor cables 2. incorrectly connected switching wires 3. incorrectly connected battery switch wires	1. check the connection 2. check the connection 3. check the connection to the battery
Reel runs too slow	1. too heavy load	1. reduce the load
The engine is running but switches off	1. excessive load/overload	1. wait for the winch motor to cool down

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