Operation Manual

Electric Cable Winch

61000–61002, 61769

Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!
Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.

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To return your goods for exchange, repair, or other purposes, please use the following address. Attention! To allow for a trouble-free complaint or return, it is important to contact our customer service team before returning your goods.

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Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it.
Keep these operation instructions in a safe place.

Technical specifications

Item number		**61000, 61001**	**61002**	**61769**
Model		**907 kg winch (2000 lbs)**	**1588 kg winch (3500 lbs)**	**1570 kg winch (3461 lbs)**
Capacity (kg)	**Wheel vehicles**	2721	4990	
	Vehicles on water	2267	4490	
	Pulling capacity	907	1588	1570
Boat	**Max. size** (m)	5.5	5.5	
	Max. weight (kg)	2267	2267	
Steel cable	**Speed** (m/min)	1.38	1.38	1.8
	Length (m)	9.2	10.5	10.5
	Thickness (mm)	4.8	5.5	5.5
Size hook (cm) (opening × length)		1.9 (¾″) × 9.5 (3¾″)		
Power consumption (W)		280	280	350
Voltage (V)		12		
Wireless remote control		option		
Remote switch cable (m)		3		
Mounting plate (cm)		22.23×12.54×0.47 (8¾″×4 15/16″×3/16″)		
Total size (cm)		24.13×19.05×25.4 (9½″×7½″×10″)		
Weight (kg)		11	12	12.5

Accessories included

- Power cable with water sealed plug and circuit breaker
- Remote Switch with water sealed plug, for safe operation
- The 907 kg winch (2000 lbs) has a 9.2 m aircraft cable with attached hook; the 1588 kg (3500 lbs) and 1570 kg winches (3461 lbs) have a 10.5 m aircraft cable with attached hook.
- Mounting bracket for trailer hitch
- Emergency crank handle and adjustable clutch

Product features

- Convenient, portable power for pulling boats, stuck vehicles, and other heavy items
- Powerful 907 kg, 1588 kg, or 1570 kg
- 12 V tension for convenient use without extension cords or small gas engines
- Portable, with built-in carrying handle and quick-attach mounting plate

Safety instructions

Attention:

- **Keep this manual in a safe place!**
  You will need this manual for the safety warnings and cautions, assembly instructions, operating procedures, maintenance procedures, trouble shooting, parts list, and diagrams. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep both this manual and your invoice in a safe, dry place for future reference.
- **Please note:**
  The warnings, precautionary measures, and instructions of this operation manual cannot cover all possible conditions and situations. Always use this device with caution and do not take unnecessary risks.
- **Warning:**
  When using electric devices, some basic safety precautions should always be followed to reduce risk of injury and other risks.

General safety instructions

- **Read the manual before using the device.**
- **Keep your working area tidy.** Untidy working areas invite accidents.
- **Consider the conditions of your working area.** Never use devices at damp, wet, or badly-lit spots. Do note expose the device to rain. Keep your working area well-lit. Do not use electric devices with flammable gases or liquids present.
- **Keep children away.** Children must never be allowed in working areas. Do not allow them to operate machines, tools, or devices.
- **Store non-used devices.** When not in use, tools must be stored in a dry location to prevent rost from forming. Always lock up tools and keep them out of children's reach.
- **Do not force the tool.** The device will work better and more safely when used at an operational speed that matched its function. Do not use inappropriate attachments to exceed the capacities of the tool.
- **Only use the tool for its intended purpose.** Never use the tool for a purpose that it is not intended to.
- **Wear appropriate clothing.** Do not wear loose clothing or jewellery, as they could be caught in moving parts. It is recommended to wear robust shoes. Secure long hair under a hair cover. Always wear suitable work clothing.
- **Use eye, ear, and respiration protection.** Always wear approved impact safety goggles when producing metal fillings or wood chips. Wear an approved dust mask or respirator when working near metal, wood, and chemical dusts and mists. Use approved ear protection when working in a loud or noisy environment.
- **Use the power cable with care.** Protect the power cable from damage; protect it from being hit, pulled, or attacked by corrosive substances. Do not pull out the plug by pulling the power cable.
- **Do not stoop down too far.** Ensure a safe stand and keep your balance. Do not reach over or across running machines.
- **Maintain tools and devices with care.** Keep tools sharp and clean for better and safety performance. Follow the instructions for lubricating and replacing accessories. Periodically inspect the power cord and, if it is damaged, have it repaired by an qualified person. Inspect all moving parts and mounting bolts prior to use. The control handle and power switch must be kept clean, dry, and free from oil and grease at all times.

- **Remove adjusting keys and wrenches.** Be sure that keys and wrenches are removed from the tool or machine work surface before operation.
- **Avoid unintentional starting.** Be sure to be prepared to begin work before switching the device on.
- **Stay alert.** Fully concentrate on what you are doing. Do not use the device when being tired or under the influence of alcohol, drugs, or medicine.
- **Before operating the device, check it for damaged parts.** Before using any tool, any part appearing damaged should be carefully checked to determine if it will operate properly and perform its intended function. Check for alignment and binding of moving parts, any broken parts or mounting fixtures, and any other condition that may affect proper operation. Make sure that no damaged or broken parts stay inside the device. Any damaged part should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn it on and off properly.
- **Spare parts and accessories.** When servicing the device, make sure that service personnel only use identical replacement parts. Use of any other parts will void the warranty. Only use parts and accessories intended for use with this tool.

Special warnings when using this electric device

Using this powerful device might lead to particular dangers. Take care to protect yourself and those around you.

Steel cable

- Be sure that the cable is in good condition and attached properly.
- Do not use the winch if the cable is frayed.
- Do not replace the cable with a cable of lesser strength.

Battery

- Ensure that the battery is in good condition.
- Avoid contact with battery acid or other contaminants.
- Always wear approved eye protection when working on a battery.
- Have the engine running when using the winch to avoid running the battery down.

Stand back

- Stay out of the direct line of direction that the cable is pulling, as it is whiplashed along this line when slipping or breaking. While using the device, keep your hands, clothes, hair, and jewellery away from the winch.
- Call a spotter in to ensure safe use of the winch. Make sure that this person is out of the way of the vehicle and cable before switching on the winch.

Power limits

- Do not try to exceed the pulling limits of this winch.
- Never use the hand crank to “assist” the winch. This would cause damages to the winch and might lead to injuries.

Installation

Wiring the electric winch

This winch can be used with temporary or permanent wiring.

Temporary wiring:

1. Lift the rubber seal of the socket at the right side of the winch housing and plug the cable in. Lay the cable from the winch to battery making sure that it cannot be tangled in portable equipment and cause a tripping hazard.
2. Connect the black clamp handle of the power cable with the frame of the vehicle, establishing an earth connection. Connect the red clamp handle to the positive (+/red) terminal of the battery. **Note: Make sure to use a 12 V car battery or equivalent in good condition.**

3. Lift the rubber seal at the left side of the winch housing. Taking the remote-control unit, insert the plug at the end of the cable into the socket on the right side of the winch housing labelled “Remote control.”
4. Lay down the remote control at a safe spot until the winch is ready for operation.

Permanent wiring:

1. Attach the over-current protection to the positive (+/red) terminal of your battery, using the battery terminal clamp bolt.
2. Choose a route for the cable from the place of your vehicle where the winch is to be mounted to or where it is connected to the battery. This route must be safe, out of the range of moving parts and road debris, and must not present any danger for the cable being damaged during vehicle operation or maintenance. For example, the cables can be laid under the vehicle and be attached by appropriate means to its frame. Nevertheless, do not attach it to the exhaust system, drive shaft, emergency brake cable, fuel line, or any other components which may create damage to the wiring through heat or motion, or create a fire hazard.
3. If drilling through the bumper or any part of the body to route the cables, be sure to install a rubber grommet in the hole to prevent fraying of the wires at that point.
4. Now lay the power cable from the point where the winch will be used to the battery. Follow the precautions discussed above.
5. Remove the red clamp handle and attach the red cable to the over-current protector mounted to the positive (+/red) terminal of the battery.
6. Remove the black clamp handle and attach the black cable to the frame of the vehicle to create a secure earthing.

Warning!

- Always connect red to red (positive to positive) and black to the vehicle frame and create an earthing if using the car battery.
- Never use the winch or other accessories up to the point of total exhaustion of the battery. This could permanently damage the battery!
- You may keep the engine of the vehicle running while using the winch to continually recharge the battery. However, be extremely cautious when working on a vehicle the engine of which is running.
- Do not use any dirty, corroded, or leaking battery. The acid can burn your skin, causing an injury.
- Always wear approved eye protection when working on or with a battery.

Mounting the winch

This winch is designed to be mounted temporarily to trailer hitch mounting bracket. Nevertheless, it can be mounted permanently, too.

Permanent mounting:

1. Select a mounting spot at the bumper of your vehicle, truck bed, boat trailer, or other suitable location. **Note:** The winch can generate 907 kg (2000 lbs) pulling force. Make sure that the spot chosen can withstand such a force. You may need to use steel reinforcement plates or weld on additional bracing, depending on the mounting spot chosen.
2. Align the winch with the spot chosen and mark the position of the bottom holes for drilling.
3. At these positions, drill four holes into the mounting spot.
4. Using hardened steel bolts of a diameter of at least 0.95 cm (⅜″), mount the winch to the spot chosen.

Temporary mounting:

1. Attach the three plate stud bolts to the adapter plate, using the supplied nuts. Tighten them firmly.
2. Slide the heads of the plate studs into the keyhole slots on the back of the winch.
3. Attach the winch/adapter plate assembly to your trailer hitch by inserting the trailer hitch ball through the shaped hole in the adapter plate.

Using the winch

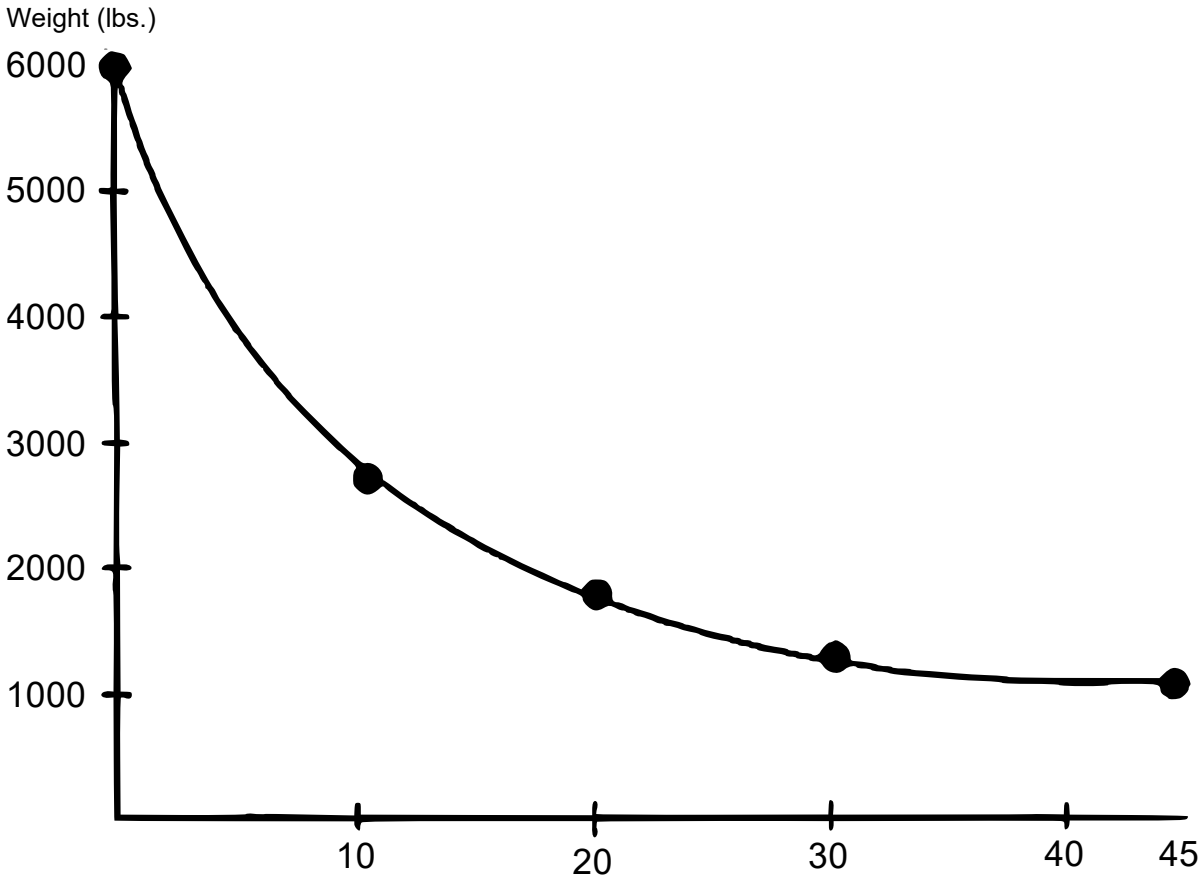
1. Put your vehicle in neutral. Never winch with your vehicle in gear or park, since this could damage transmission of your vehicle. Pull the handbrake. Block the wheels from rolling, using suitable chocks. Failure to follow these instructions can cause your vehicle to roll while winching, creating an extremely dangerous situation!
2. To pull out the steel cable, turn the clutch knob counter-clockwise to loosen it. Then pull out the cable to the length needed. You may also turn the clutch knob clockwise to tighten it. Then use the remote control or wireless remote control to let out the cable to the length needed. Always leave at least three turns of cable on the spool to prevent the cable from being pulled out of the winch.
3. Hook onto the object using a pulling point, tow strap, or chain. Never wrap the cable around the object and hook onto the cable itself. This can cause damage to the object being pulled and kink or fray the cable.
4. Re-tighten the clutch knob.
5. Stand clear. When it is safe to do so, use the power switch of the remote control to retract the cable and winch the object.

Warning

- Keep hands, clothing, hair, and jewellery clear off the drum area and cable when winching.
- Never use the winch if the cable is frayed, kinked, or damaged.
- Never allow anyone to stand near the cable or in line with the cable behind the winch while it is
- powered. If the cable should slip or break, it can suddenly whip back toward the winch, causing a hazard for anyone in the area. Always stand well to the side while winching.

Pulling capacity

- Depending on the model, the winch has different capacities. Let us take for instance a winch with 907 kg (2000 lbs) capacity. Practically applied, the winch can move the following objects:
  - stopped charges of up to 907 kg (2000 lbs) on even terrain,
  - waterborne craft of up to 2267 kg (4998 lbs),
  - wheeled vehicle of up to 2721 kg (6000 lbs) to maintain its movement.
- Another winch model has a 1588 kg (3500 lbs) capacity. Practically applied, the winch can move the following objects:
  - stopped charges of up to 1588 kg (3500 lbs) on even terrain,
  - waterborne craft of up to 4490 kg (9899 lbs),
  - wheeled vehicle of up to 4990 kg (11000 lbs) to maintain its movement.
- The pulling force is reduced with the inclination increasing. For example, the rolling capacity of 2722 kg (6000 lbs) is reduced to 499 kg (1100 lbs) on a level ground with the inclination being 45°. Please refer to the following diagrams for estimated pulling capacities (rolling weight) on different inclinations.



Maximum (rolling) weight capacities on an incline (approximately)

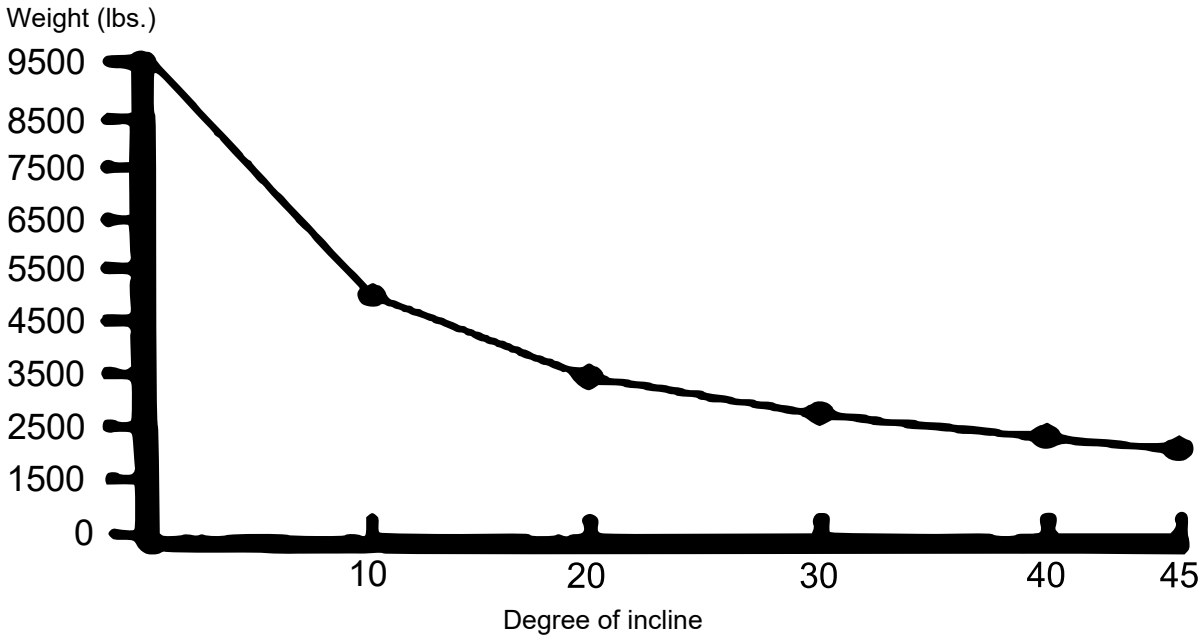


Figure F

Using the emergency hand crank

Warning: Do not use the crank to assist an operating winch. This will damage the winch and may cause personal injury.

1. Turn the clutch knob clockwise until hand tight. Do not force or overtighten it.
2. Place the end of the hand crank over the flattened end of the threaded shaft on the left side of the winch.
3. Rotate the hand crank clockwise to tighten the cable. Continue to turn until the cable has been completely retracted.

Maintenance

1. Occasionally lubricate the cable with light oil.
2. Grease the gears every 6 months. To do this, remove the clutch knob and separate the left and right housing. Use any good-quality waterproof grease.

Regulations for waste disposal

The Waste Electrical and Electronic Equipment Directive (WEEE Directive, 2012/19/EU) of the EU was implemented in the German law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE directive are labelled with the symbol of a crossed-out wheeled rubbish bin. This symbol indicates that this electric device must not be disposed of with the domestic waste.

WilTec Technik GmbH is registered with the German registration authority EAR (Stiftung Elektro-Altgeräte Register) under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic devices (intended for use in the countries of the European Union and other European countries with a separate waste collection system for these devices).
The symbol on the packaging or the product itself indicates that this product must not be treated as normal domestic waste but must be disposed of at a recycling collection station for electrical and electronic waste.
By disposing of this product correctly, you contribute to the protection of the environment and the health of your fellow people. Inappropriate disposal threatens the environment and health.

Material recycling helps to reduce the consumption of raw materials.

Additional information about the recycling of this product can be provided by your local commune, the municipal waste disposal facilities, or the store where you purchased the product.

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Important Note: