PORTABLE HANDHELD WINCH 500KG PULLING FORCE 230V

MODEL NO's: **PPH500/230**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.


Refer to instructions

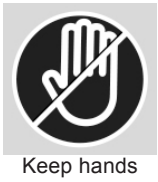

Wear eye protection


Wear safety footwear


Wear head protection


Don't lift people


Don't suspend loads


Keep hands clear


Use handsaver

1. SAFETY

1.1. ELECTRICAL SAFETY

❑ **WARNING!** It is the user's responsibility to check the following:
✓ Check all electrical equipment and appliances to ensure that they are safe before using.
✓ Inspect power supply leads, plugs and all electrical connections for wear and damage.
✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
× **DO NOT** use worn or damaged cables, plugs or connectors.
✓ Ensure that any faulty item is repaired or replaced immediately by a Sealey qualified technician.
✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use.
✓ Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
IMPORTANT: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.
× **DO NOT** pull or carry the appliance by the power cable.
× **DO NOT** pull the plug from the socket by the cable. Protect the power cable from heat, oil and sharp edges.

1.2. GENERAL SAFETY

✓ The user shall ensure that the operating personnel are given the necessary training.
✓ The operator shall always work in compliance with the operating instructions.
CAUTION Read all safety regulations and instructions. Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.
✓ Keep all safety regulations and instructions in a safe place for future use.
❑ **WARNING!** Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this product.
✓ Locate product in a suitable working area.
✓ Keep the work area clean, uncluttered and ensure there is adequate lighting.
✓ Keep the product clean and tidy in accordance with good workshop practice.
✓ Keep children and unauthorised persons away from the working area.
× **DO NOT** use the product for any purpose other than that for which it is designed.
× **DO NOT** exceed maximum capacity of product.
× **DO NOT** use the product out of doors.
× **DO NOT** get the product wet or use in damp or wet locations or areas where there is condensation.
× **DO NOT** clean the product with any solvents which may damage the paint surface or the protective coating.
✓ Use the machine only for the purpose for which it is designed.
✓ The operator shall lift the load from the ground with the minimum speed available at the hoist. The rope (chain, belt) shall be tightened and shall not be in the slack-condition when the load is being lifted from the ground.
✓ The handheld winch is not designed to lift loads exceeding its rated capacity.
✓ Check the handheld winch at regular intervals for signs of damage. The control switch must be in good condition.
✓ Store the handheld winch in a proper manner when it is not in use. Store the machine at a dry, high or lockable place, out of the reach of children including plastic bags, boxes, Styrofoam etc. Dispose of packaging after 1 year.
✓ Have repair and service work carried out only by authorized workshops by a trained electrician. Repair work must only be carried out by a trained electrician, otherwise the machine may cause accidents.
✓ Always concentrate fully when operating the cable hoist.
✓ If the brakes stop functioning and the load lowers quickly, one should press the off-switch immediately and then the On-switch. After unloading, please send the machine to a qualified professional for repairs.
❑ **WARNING!** Push the E-stop button on time in case of danger or emergency. To release the button turn it in arrow direction.
× **DO NOT** pull loads sideways or from one side.
× **DO NOT** allow children to play with or near this item.
× **DO NOT** allow the load to swing during operation and **DO NOT** subject the equipment, chains or straps to shock loads.
× **DO NOT** leave the load hanging in the air long-term, to prevent the deformation of the pieces. While the machine is in operation **DO NOT** carry out any repairs or inspections.
× **DO NOT** lift people or lift loads over people. Falling loads can injure or kill people.
× **DO NOT** attempt to lift loads that exceed the rated load (see the data plate).
× **DO NOT** use 2 or more machines to load same object.

- × **DO NOT** remove or cover warning labels and/or tags. These carry important safety information. If unreadable or missing, contact Sealey Service Centre for a replacement.
- × **DO NOT** try to lift fixed or obstructed loads.
- ❑ **WARNING!** Excessive inching (e.g. giving short pulses to the motor) shall be avoided.
- ❑ **WARNING!** The hoist is not designed for lifting of persons.
- ❑ **WARNING! DO NOT** stand under the raised load.
- ❑ **WARNING!** Failure to heed safety and warning instructions may result in damage and/or personal injury and will invalidate the warranty.
- ❑ **WARNING!** If the red indicator mark is visible when unwinding the cable, please stop the cable winch immediately and do not continue to unwind the cable.
- ❑ **WARNING!** Always wear safety equipment (such as rubber gloves, non-slip footwear, hearing and hair protection and etc.) when working.
- ❑ **WARNING!** Never wear loose clothing or jewellery; this could be caught by movable parts of the machine.
- ❑ **WARNING!** It is prohibited, to transport hot molten masses.
- ✓ Only use appliances which are in perfect working order.
- ✓ Service and clean the appliance regularly.
- ✓ Adapt your working style to suit the appliance.
- × **DO NOT** overload the appliance.
- × **DO NOT** use the Emergency Stop button as a routine stopping device. It should only be used to stop the machine in an emergency.
- ✓ Have the appliance serviced whenever necessary.
- ✓ Switch the appliance off when it is not in use.
- ✓ Wear protective gloves.
- ✓ The Sound pressure value only indicates the maximum noise emitted by the machine. Whether the operator requires hearing protection is not certain here. It depends on how much noise reaches the operator's ears, and it also depends on the surrounding environment (such as other sound sources nearby). Even if there is no clear requirement, for the safety of the operator, always wear hearing protection when working.
- ✓ All load lifting attachments used must have a rated capacity of at least twice the total suspended load, including both the load and the attachment itself, at the fixing point. Slings must also have a rated capacity of at least twice the actual suspended load. Additionally, all loads must be secured using positive-locking means to ensure safe lifting operations.
- ✓ Loads shall be attached only with positive-locking means.

2. INTRODUCTION

The handheld Winch can pull up to 500kg consistently. Unit can identify when it is being overloaded and will turn itself off to protect the user. Button which will stop the unit completely if pressed. Grooved drum helps to keep the wire neat and tidy without any kinks. Stopper at the end of the handheld winch to stop the wire being completely wrapped up.

3. SPECIFICATION

Model No: PPH500/230	
Capacity (Single Cable):	500kg
IP Rating:	IP50
Lift Speed (Maximum):	2m/min
Motor Power:	0.75kW
Nett Weight:	11kg
Voltage:	230V ~ 50Hz

PPH500/230

4. CONTENTS

1	PPH500/230 Winch
1	Cable Hook
1	Anchor Hook
1	Instruction manual
1	Handsaver

5. PRE OPERATION

Before operating the 500 kg, 230 V portable handheld winch, a thorough pre-operation inspection must be conducted to ensure safe and reliable use. Begin by opening the package and carefully inspecting all components for any signs of damage. Compare the contents with the parts list to ensure all items are present. If any damage is found, contact your supplier immediately and do not use the handheld winch. Read and fully understand all documentation supplied with the product before use. Verify that the handheld winch is correctly rated for the intended load and that the power supply matches the handheld winch's voltage requirements. Inspect the handheld winch housing, cable, hooks, and attachment points for wear, damage, or deformation. Ensure all fasteners are secure and the cable is properly spooled without kinks or overlapping layers. Check that the control switch operates correctly and that any emergency stop mechanism is functional. Confirm the mounting or anchoring point is secure and capable of withstanding at least twice the maximum load. Keep the work area clear of obstructions and bystanders, and never use the handheld winch if there are any doubts about its condition or setup.

1. Mount the anchor hook (black) into the slot located below the Emergency Stop button using the supplied fasteners. See Fig. 1.

2. Tighten until secure.

(See next step on the following page).

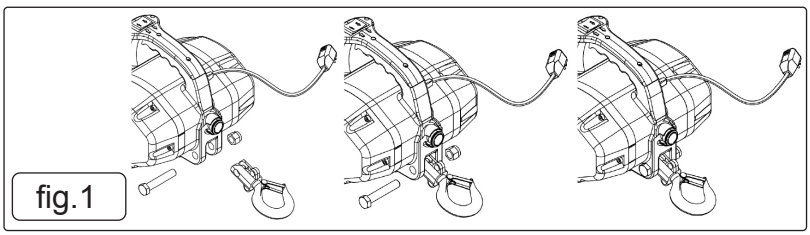


fig.1

3. Attach the handheld winch cable hook (silver) to the handheld winch cable using the hook, bolt, and split pin. Once the split pin has been inserted, bend both arms to ensure a secure fit. Fig.2.
4. Complete the setup by attaching the hand saver to the handheld winch cable hook (silver). Always use the hand saver when pulling out the cable.

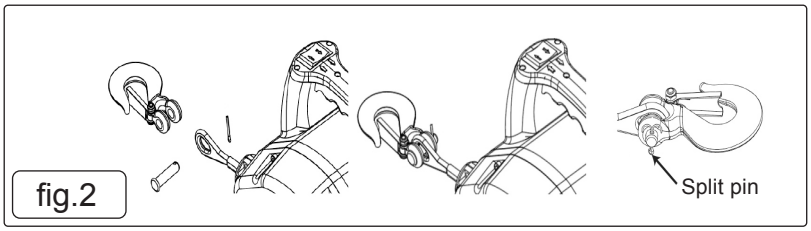


fig.2

6. OPERATION

❑ **WARNING!** Read and understand this instruction manual. Use this product only in a safe, controlled environment. Avoid operating in loud or distracting areas, ensure bystanders are cleared from the work zone, and that a competent operator is in control at all times. The operator must wear appropriate protective gear, including gloves and eye protection.

1. **Engage the System/Emergency Stop**
Ensure the System/Emergency Stop button is pressed to the disabled position (see fig.3).

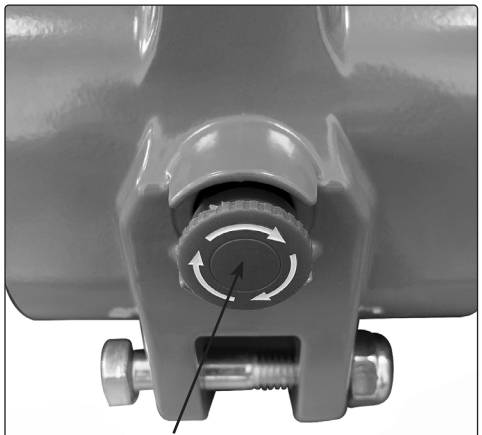


fig.3 **Push E-Stop in to disable machine**

2. **Connect Power Supply**
Connect the power plug with a resettable fuse to a grounded, single-phase power socket.
NOTE: If using an extension cord, ensure it:
- Supports more than 15A current.
- Is kept away from sharp objects.

3. **Secure the handheld Winch Anchor and Cable Hooks**
- Use a suitable anchor point that can handle your intended load.
- Ensure all hooks and anchor connections are secure.

4. Clear the Winching Area
- Only essential personnel should remain in the area.

5. Enable the System
- Turn the System/Emergency Button clockwise to enable the handheld winch.
- To pause or stop handheld winching in an emergency, push the button. (see fig.3).

6. Release the Cable
- Press Cable Out for at least 5 seconds, or until about 3 feet (1 meter) of cable is extended (see Figure 4).
- Continue unspooling only until red paint is visible on the cable.
- **IMPORTANT:** Always keep at least 5 wraps of cable on the drum.

7. Monitor Cable Wrapping
- Ensure the cable wraps the drum evenly.
- **If it miswraps:**
- Unspool.
- Adjust the handheld winch to be perpendicular to the load.
- Respool.

8. Shut Down After Use
- Press the red System/Emergency Button.
- Unplug the unit from the power source.

9. Check Power Connection
- Confirm the power plug and cable are securely connected via the quick connector.
- **DO NOT** disconnect power cables while the system is in use (see fig.5).

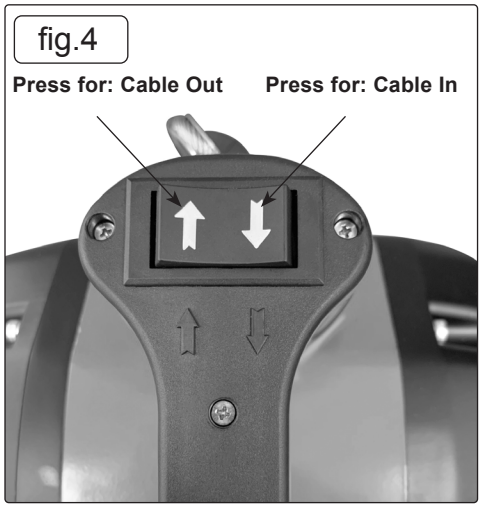


fig.4

❑ **WARNING!** The power plug must be disconnected from the power source when the unit is not in use.
Failure to do so may result in electrical hazards, equipment damage, or unauthorised operation.

6.1. AUTOMATIC CABLE LIMIT PROTECTION

This tool features an automatic cable stop system that ensures operation remains within safe limits.
- **Cable-In Operation:** The tool automatically halts when the maximum safe cable wrap on the drum is reached. At this point, only cable-out (winch-out) is permitted.
- **Cable-Out Operation:** The tool automatically stops spooling out when the cable reaches its maximum safe extension. At this point, only cable-in is allowed.
This safeguard helps prevent over-wrapping or over-extension, protecting both the equipment and the operator. (See fig.6)

fig.5

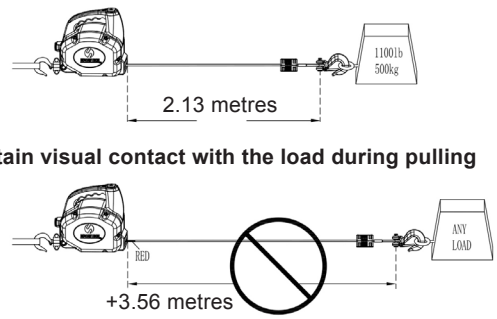


fig.6

❑ **WARNING!** Never spool out beyond the red-painted section of the wire rope.

Exceeding this limit may result in equipment failure or loss of load control.

6.2. SAFE WINCH OPERATION

❑ **WARNING!** Use a pulley block to avoid winching at sharp angles, as uneven cable layering can cause serious damage to both the handheld winch and the cable. If the cable has spooled unevenly, this can be corrected by securing the load, spooling out the cable, and repositioning it to the opposite end of the drum before re-spooling. Always use the handheld winch alone to move the load. Do not attempt to assist the handheld winch by applying additional pulling force, as this may overload the cable or rigging and lead to equipment failure or serious injury.

❑ **WARNING!** Never rely on the handheld winch to hold a load in place. This handheld winch is not designed for load-holding applications and may unwind or fail due to shock-loading. Always secure the load using appropriate methods, and detach the handheld winch hook once the load is properly restrained. Take your time when rigging, and ensure that a reasonable safety factor is included in your setup. Improper rigging can damage equipment or vehicles and may result in serious injury. When anchoring the cable, always use a Tree Saver Strap or a similar device. Do not wrap the cable around an anchor point and hook it back onto itself, as this practice can weaken the cable and lead to failure. (See fig.7)

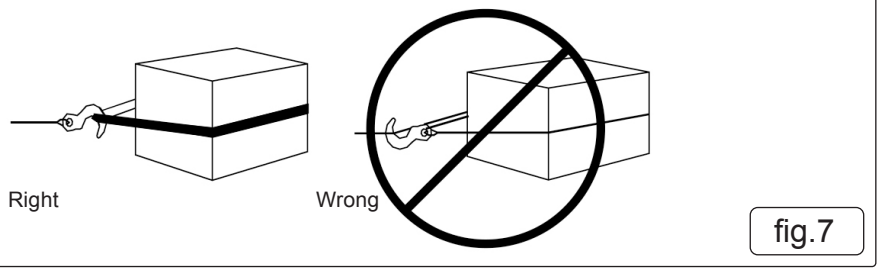


fig.7

❑ **WARNING!** Always use the handsaver when operating the handheld winch. Never hold the hook with your hand, as this can lead to serious injury. This precaution is essential not only when spooling the cable in, but also when removing the cable from the handheld winch while it is under power. Keeping your hands clear of the hook and cable ensures safe operation at all times.

6.2.1. After unspooling the cable and preparing for recovery, run the handheld winch intermittently to take up any slack in the cable. This ensures better control and prevents sudden tension. If using a pulley block, always verify that the cable is properly seated in all pulley rollers before applying a load. Misalignment can cause cable damage or pulley failure under tension.

❑ **WARNING!** Never touch the cable or hook while they are under tension or load. Even when the handheld winch appears to be at rest, the cable may still be under tension. Never attempt to guide a tensioned cable onto the drum with your hands, as this can result in serious injury. Always use appropriate tools and follow safe winching procedures to prevent accidents.

When pulling a load, always place a damper, such as a cable dampener, blanket, jacket, or floor mat,over the winch cable near the hook end (see illustration). This helps absorb energy and slow the snap-back effect if the cable breaks, significantly reducing the risk of serious injury. Additionally, raise the vehicle's hood to provide extra protection for the windscreen in the event of cable failure.

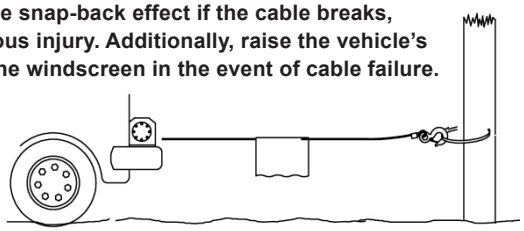


fig.8

❑ **WARNING!** Always pull as straight as possible to prevent the cable from bunching on one side of the drum. Uneven spooling can cause dangerous buildup, leading to cable damage or winch malfunction. It is critical that the handheld winch operator continuously monitors cable alignment to ensure safe and efficient operation.

6.3. DUTY CYCLE RATINGS

6.3.1. Duty cycle ratings describe how long an electric motor can operate under specific conditions before it must be allowed to cool. These are typically categorized as continuous, intermittent, or special duty, often expressed in minutes. The International Electrotechnical Commission (IEC) defines the following duty cycles:

S1 – Continuous Duty

The motor operates at a constant load for sufficient time to reach thermal equilibrium.

S2 – Short-Time Duty

The motor runs at a constant load for a short period, not long enough to reach thermal equilibrium. The rest period is long enough for the motor to cool to ambient temperature.

S3 – Intermittent Periodic Duty

The motor operates in a sequence of identical cycles with fixed run and rest times. It never reaches thermal equilibrium. The influence of starting current on temperature rise is minor.

This handheld winch is classified as S2 (Short-Time Duty). This means it is designed for limited run time followed by sufficient cooling. Please refer to the table below, which shows how varying load levels affect the allowable run time before rest is required.

RUN TIME/DUTY CYCLE TABLE		
LOAD	**POWER ON**	**POWER OFF**
550LBS(250KG)	10 Minutes	15 Minutes
1100LBS(500KG)	10 Minutes	20 Minutes

6.4. TRANSPORT, HANDLING

6.4.1. Position of centre of gravity

The center of gravity on a handheld winch is typically located near the motor or gearbox side, slightly above the drum and centrally aligned between the handle grips. This offset balance reflects the heavier internal components, making the motor end feel heavier during lifting or mounting. Proper awareness of the centre of gravity is essential for safe handling, stable mounting, and balanced operation during use.

When handling a handheld winch, always use both hands and lift from the centre of the unit to account for its offset centre of gravity.

7. MAINTENANCE

7.1. WIRE CABLE REPLACEMENT

❑ **WARNING!** Disconnect from mains before.

▲ **DANGER!** Replacement of critical components, such as the handheld winch cable, must only be performed by a qualified technician using certified Sealey products. Improper replacement can result in serious injury or death. If your handheld winch requires wire cable replacement, contact the Sealey Service Centre or a professional service technician.

Only factory-supplied replacement wire rope of the exact size and length should be used. Cable replacement must be carried out at an authorised maintenance facility by experienced personnel.

7.2. SYSTEM RESET

7.2.1. A system reset is required after replacing the wire cable or when all other Troubleshooting steps have been completed and the issue persists. Performing the reset ensures that the handheld winch can accurately monitor cable extension limits and maintain safe operating conditions. Failing to reset the system may result in incorrect cable limit detection, which could lead to unsafe winch operation.

▲ **DANGER**! This procedure will cause tool to spool cable in automatically.

✓ **RESET INSTRUCTIONS**

1. Clear the Area

Ensure the space around the handheld winch is clear. There must be no risk to people or property from sudden handheld winch activation.

2. Connect to Power

Plug the unit into a power source.

Ensure the System/Emergency Stop button is pressed down. (See Fig. 9)

3. Initiate Reset Sequence

Press the “Cable Out” button five (5) times within five (5) seconds. (See Fig. 10)

4. Automatic handheld Winch Activation Will Begin

- Wait 5 seconds.
- Then, twist and release the Emergency Stop button (it should pop out). (See Fig. 11)
- The handheld winch will automatically begin pulling in the cable.

5. Allow handheld Winch to Self-Calibrate

The handheld winch will continue spooling in until the cable stopper contacts the hawse (fairlead). (See Fig. 12)

Once this is complete, the tool will stop automatically.

✓ The system reset is now complete.

6. Confirm Normal Operation

- Press “Cable Out” for 10 seconds.
- Then press “Cable In” to return the cable fully.
- Verify that operation is smooth and consistent. The unit should now function as per factory settings.

fig.9

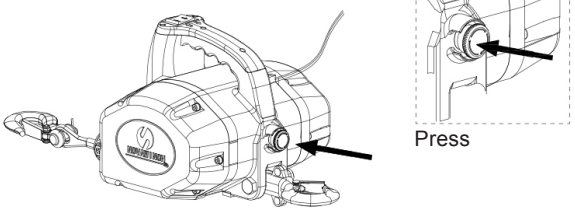


fig.10

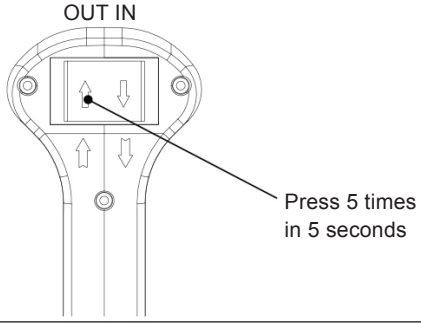


fig.11

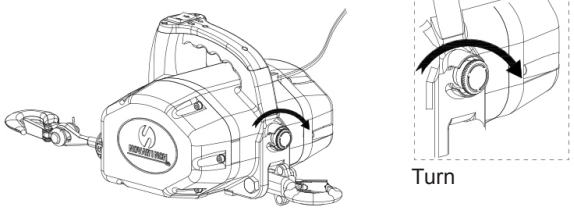
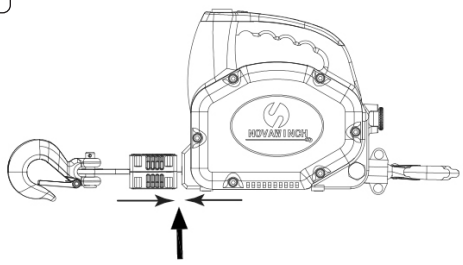


fig.12



7.3. RESTARTING THE MACHINE AFTER AN INTERVENTION

7.3.1. After an intervention (repair, maintenance, or emergency stop), the handheld winch must be restarted safely to prevent hazards such as uncontrolled movement, electrical faults, or mechanical failure.

1. Pre-Restart Safety Checks

A) Verify the Cause of Intervention

- Confirm the original fault has been identified and fully resolved.
- Ensure all repair or maintenance work is complete.
- If intervention was due to an emergency stop, investigate the root cause before restarting.

7.4. STORAGE

Store the handheld winch in a clean, dry, and well-ventilated area, away from moisture, corrosive materials, and direct sunlight. Ensure the cable is fully retracted onto the drum without tension and the hook is secured to prevent movement or damage. Disconnect the power supply and coil the cord neatly to avoid tripping hazards or wire fatigue. Keep the winch off the ground if possible, use a shelf or mounting bracket, and protect it from dust using a cover or case. Regularly inspect the handheld winch during storage for signs of rust, wear, or electrical damage.

7.5. SPACE REQUIRED FOR OPERATION/MAINTENANCE

Allow a clear working space of at least 1 metre (3 feet) around the handheld winch for safe operation and maintenance. Ensure there is unobstructed access to the control panel, cable drum, and anchor points. Keep the front and rear of the handheld winch clear to allow safe cable spooling and ventilation. Adequate space also helps prevent trip hazards and allows quick access in emergencies.

7.6. REPLACEMENT PARTS

For spare parts, consult the parts list located at the end of the manual to identify the correct components. Always use genuine replacement parts to ensure safety and proper operation.

7.7. WASTE REMOVAL/DISPOSAL

Before disposal, disconnect the winch from power and remove components like the cable, hook, and controls. Dismantle into main parts (motor, drum, housing) using proper tools and PPE. Sort materials, metal for recycling, electrical parts as e-waste. Do not discard in household waste. Follow local disposal regulations or contact Sealey for guidance.

8. TROUBLESHOOTING

SYMPTOMS	POSSIBLE CAUSE	REMEDY
Handheld winch will not operate	Power supply.	Ensure the unit is properly plugged into a working 230V outlet.
	Emergency Stop.	Confirm the Emergency Stop button is released (pulled out).
	Control buttons.	Check for damage or unresponsive controls.
	Cable limit.	The winch may have reached its safe cable-in or cable-out limit.
	Overload/thermal protection.	Allow the winch to cool if it has overheated.
	Wiring and connectors.	Inspect for loose, damaged, or disconnected cables.
	System Reset.	Perform a system reset if cable was replaced or a fault persists.
Wire cable damaged	Damaged cable.	Replace wire cable.
	Fairlead worn.	Replace Fairlead.
Wire cable is tangled	If the cable is pulled in at an angle, tangling may occur.	To prevent this, always pull the cable perpendicular to the winch unit to ensure even spooling and avoid damage to the cable or drum.
If the cable will not extend (cable-out) but will retract (cable-in)	Cable-Out Safety Limit Reached.	Perform a system reset if necessary.
	If the cable is under load or jammed, it may not spool out.	Release any load or tension before trying again.
	The “Cable Out” button may be faulty.	Test with a different control (if available) or inspect for damage.
	A partial electrical fault may affect only one direction.	Check all connections and ensure consistent power.
	Internal parts like the drum or gears may be jammed.	Inspect for damage or contact Sealey Service Support.

ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

REGISTER YOUR PURCHASE HERE

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.
IMPORTANT: No Liability is accepted for incorrect use of this product.
WARRANTY: Guarantee is 12 months from purchase date, proof of which is required for any claim.

Jack Sealey Ltd t/a Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk, IP32 7AR UK
Jack Sealey (EU) Ltd t/a Sealey Group, Farney Street, Carrickmacross, Co. Monaghan, A81 PK68 Ireland
Tel: 01284 757500 ▪ **Email:** sales@sealey.co.uk ▪ **Web:** www.sealey.co.uk