

Introduction

Thank you for purchasing a Hilka electric winch. We hope you will be pleased with the performance and reliability of your winch. Your winch was designed for a non-industrial use. All other applications may void warranty.

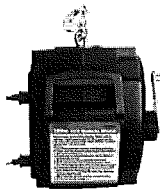
As with any power tool, there is a potential for personal injury if your winch is improperly installed or operated. To ensure operation of you winch, it is extremely important that you read and understand this manual prior to installing and operating this winch. Make sure that anyone else who operates your winch also reads and understands this manual.

SPECIFICATIONS

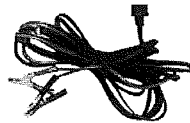
Capacity:	5000 lb. Rolling
	4000 lb. Marine
	1700 lb. Pulling Capacity
Max. Boat Size:	5.4m (18')
Line Speed:	1.8m (6') Per Minute with Full Load
Hook Size:	1.9cm (3/4") Opening x 10cm (4") L
Cable length:	9m (30')
Power Supply:	12 Volts
Temporary Power Cord:	3m (10') L. Negative Lead
	3m (10') L. Positive Lead
Permanent Power Cord:	1.8m (6') Negative Lead
	4.2m (13') Positive Lead
Remote Switch:	3m (10') L.
Overall Dimensions:	20.3cm (8") x 22.8cm (9") x 19cm (7-1/2")

Included Accessories:

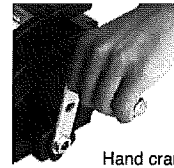
1. Temporary power cord, fitted with water sealed plug for safe operation.
2. Remote control with water sealed plug, for safe operation.
3. 30' steel cable with attached hook.
4. Mounting plate for trailer hitch.
5. Hand crank and adjustable clutch.
6. Permanent power cord.



30' steel cable
(29' working length)



10' power cable



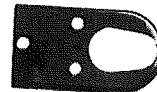
Hand crank



Permant power cord



Remote control



Mounting plate

PULLING CAPACITY

This winch has a capacity of 1700 lbs.

Applying this measurement to practical applications you can use this winch to move the following:

- a) Move a load from a dead stop of up to 1700 lbs on level ground
- b) Move a water borne craft of up to 4000 lbs
- c) Maintain movement of a wheel vehicle up to 5000 lbs

Pulling capacity is reduced as incline increases, for example, rolling capacity is reduced from 5000 lbs on flat ground to 1000 on a 45 degree incline. Please remember that this is indications only and depends on the vehicle or application that is being applied and the surface .

READ ALL INSTRUCTIONS BEFORE USING THIS TOOL!

1. **KEEP WORK AREA CLEAN.** cluttered areas invite injuries.
2. **OBSERVE WORK AREA CONDITIONS.** Do not use tools in damp, wet, or poorly lit locations. Don't expose to rain. Keep work area well lit. Do not use electrically powered equipment in the presence of flammable gases or liquids.
3. **KEEP CHILDREN AWAY.** Children must never be allowed in the work area. Do not let them handle machines, tools, or equipment.
4. **STORE IDLE EQUIPMENT.** When not in use, tools must be locked up in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **DO NOT FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended. Do not use inappropriate attachments in an attempt to exceed the tool's capacities.
6. **USE THE RIGHT TOOL FOR THE JOB.** Do not use a tool for a purpose for which it was not intended.
7. **DRESS PROPERLY.** Do not wear loose clothing or jewelry, as they can be caught in moving parts.
Non-skid footwear is recommended. Wear restrictive hair covering to contain long hair. Always wear appropriate work clothing.
8. **USE EYE, EAR AND BREATHING PROTECTION.** Always wear impact safety goggles if you are producing metal filings or wood chips. Wear dust mask or respirator when working around metal, wood, and chemical dusts and mists. Use protection when working in a loud or noisy environment.
9. **DO NOT ABUSE THE POWER CORD.** Protect the power cord from damage, either from impacts, pulling or corrosive materials. Do not yank machine's cord to disconnect it from the receptacle.
10. **DO NOT OVERREACH.** keep proper footing and balance at all times. Do not reach over or across running machines.
11. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance.

12. **REMOVE ADJUSTING KEYS AND WRENCHES.** Be sure that keys and adjusting wrenches are removed from the tool or machine work surface before operation.
13. **AVOID UNINTENTIONAL STARTING.** Be sure that you are prepared to begin work before turning the start switch on.
14. **STAY ALERT.** Watch what you are doing. Do not operate this machine when you are tired.
15. **DO NOT OPERATE THIS MACHINE WHILE UNDER THE INFLUENCE OF ALCOHOL, DRUGS, OR PRESCRIPTION MEDICINES.**
16. **CHECK FOR DAMAGED PARTS.** Before using any tool, any part that appears damaged should be carefully checked to determine that 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. any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn on and off properly.

SPECIAL WARNINGS WHEN USING THIS ELECTRIC WINCH

Using this powerful tool may create special hazards.
Take particular care to safeguard yourself and those around you.

The Cable.

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

The battery.

Be sure the battery is in good condition. Avoid contact with battery acid or other contaminants.
Always wear approved eye protection when working around a battery.
Have the engine running when using the winch, to avoid running the battery down.

Stand back

Stay out of the direct line that the cable is pulling. In case it slips or breaks, it will "whiplash" along this line.

Keep hands, clothing, hair and jewelry clear of the winch while in use.

Use a spotter to assist you in assuring that it is safe to operate the winch. Make sure this person is out of the way of the vehicle and the cable before activating the winch.

Power Limits.

Do not attempt to exceed the pulling limits of this winch.

Never use the hand crank to "assist" the winch. This will damage the winch and may cause personal injury.

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 it or overtighten.
2. Place the end of the hand crank over the flattened end of 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. Lubricate the cable occasionally with a light oil.

INSTALLATION

Temporary wiring

1. Plan a route for the wiring from the point of the vehicle where the winch is mounted. Route the wiring from the winch to the battery being careful to avoid hot or sharp surfaces that may damage the wiring or tangle it when moving equipment also ensure it cannot cause a tripping hazard.
2. Attach the black clamp to the frame of your vehicle, making sure to establish a clean and tight ground connection. Attach the red clamp to the positive (+/red) terminal of your battery.
3. Connect the input plug into the plug on the right side of the winch body. This plug is labelled Power.
4. Connect the remote control plug at the end of the cord into the plug on the left side of the winch body labelled remote control.

Always disconnect the remote control when the winch is not in use. Store the remote control in a safe dry place when not in use.

Permanent wiring

1. Plan a route for your cables this should avoid hot or sharp surfaces and be secure and out of the way of moving parts, road debris or be damaged by the operation or maintenance of the vehicle.
2. The route for red cable is from the point of the vehicle where the winch is mounted to the battery terminal clamp bolt.
3. The route for the shorter black cable is from where your winch is mounted to the frame of your vehicle making sure to establish a clean a clean tight ground connection.
4. Connect the input plug into the plug on the right side of the winch body. This plug is labelled power.
5. Connect the remote control plug at the end of the cord into the plug on the left side of the winch body labelled remote control.

Always disconnect the remote control when the winch is not in use. Store the remote control in a safe dry place when not in use.

WARNING

1. Always connect red to red (positive to positive) and black to the frame, making a ground connection, when using battery power from your vehicle.
2. Never continue use of your winch when the battery is run down be sure you are using a 12 Volt Automotive battery in good condition.

MOUNTING WINCH

Permanent mounting

1. Select a mounting site on the bumper of your vehicle, truck bed, boat trailer, or other suitable location. NOTE: This winch can generate 1700 lbs. pulling force. Be sure the location you select can withstand this much force. you may need to use steel reinforcement plates, or weld on additional bracing, depending on the desired mounting location.
2. Align the winch with the desired location, and mark for drilling the locations of the 4 holes on the base of the winch.
3. Drill these locations on your vehicle.
4. Using hardened steel bolts at least 3/8" in diameter, install your winch to the location.

Temporary mounting

1. Attach the three plate stud bolts to the adapter plate, as shown, using the supplied nuts.
2. Index 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 WINCH

1. Put your vehicle in Neutral. (Never winch with your vehicle in gear or in park, since this could damage your vehicle's transmission.) Put your emergency brake on. Block the wheels from rolling, using suitable chocks.
2. To pull out the cable, turn the crank handle counterclockwise to loosen it, then pull out the cable you need. always leave at least three turns of cable on the spool to prevent pulling the cable 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. (This is most important as it will not reach its full capacity unless this is done)
5. Stand clear, and when it is safe to do so, use the power switch in the remote control to retract the cable, and winch the item as desired.

WARNING:

1. Keep hands, clothing, hair, and jewelry clear of the drum area and cable when winching.
2. Never use the winch if the cable is frayed, kinked or damaged.
3. Never allow anyone to stand near the cable, or in line with the cable behind the winch while it is under power. if the cable should slip or break, it can suddenly whip back towards the winch, causing a hazard for anyone in the area. Always stand well to the side while winching.