

WINCH USER GUIDE WARN[®] 5000 Utility Winch

Part Number: 99963, 99964





Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own aood iudament.

CARELESS WINCH INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. WARNING and CAUTION are signal words that identify the level of hazard. These signal words mean:

AWARNING signals a hazard that *could* cause serious injury or death, if you do not follow recommendations.

ACAUTION signals a hazard that may cause minor to moderate injury, if you do not follow recommendations.

This guide uses **WOTICE** to call attention to important mechanical information, and **Note**: to emphasize general information worthy of special attention

Product Description: WARN[®] 5000 Utility Winch

The WARN[®] 5000 Utility Winch is a powerful pulling tool. Powered by a 12 volt DC power source this compact winch has a pulling capacity of 5000 pound / 2268 kilos.

The unit has a 12' remote control for power in and power out operation, 60' of 1/4'' wire rope and clasp hook. A freespooliong clutch is a standard option.

Introduction

Thank you for choosing WARN[®] for your utility winch needs. All WARN[®] products have been designed and manufactured for many years of problem-free operation. For future reference please record the following information:

Model/Part Number: Date of Purchase:

Before you begin

- □ Read the instructions completely to familiarize yourself with the installation process.
- Review all the notices, cautions and warnings to make sure the kit will be installed correctly and safely.



Safety Precautions

The following are general safety precautions that every winch operator should know. Taking precedence over any specific rule listed here, however, is the most important rule of all—**USE COMMON SENSE**.

A few minutes spent reading these rules can make an operator aware of dangerous practices to avoid and precautions to take for his own safety and the safety of others. Frequent examinations and periodic inspections of the equipment as well as conscientious observance of safety rules may save lives as well as time and money.



Failure to observe these instructions could lead to severe injury or death.

• Never use as an overhead hoist, or to suspend a load.

• Never use to lift or move persons.



Safety Precautions - continued

MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to minor to moderate injury.

General Safety:

- Always Know Your Winch: Take time to fully read and understand the included Installation and Operations guide, and Basic Guide to Winching Techniques, in order to understand your winch and the winching operation.
- Never operate this winch if you are under 16 years of age.
- Never operate this winch when under the influence of drugs, alcohol or medication.
- Never exceed winch or wire rope rated capacity. Double line using a snatch block to reduce winch load.

Installation Safety:

- Always choose a mounting location that is sufficiently strong to withstand the maximum pulling capacity of your winch.
- Always use factory approved switches, remote controls, accessories and installation components.
- Always use grade 5 or better hardware, never weld bolts and never use longer bolts than those supplied from factory.
- Always complete winch mounting and attachment of hook to hook loop before wiring winch during installation.
- Always position fairlead with WARNING label on top.
- Always spool the wire rope onto the drum as indicated by the drum rotation label on the winch. Required for automatic brake to work (if winch is so equipped) and for correct installation orientation.
- Always prestretch wire rope and respool under load before use. Tightly wound wire rope reduces chances of "binding", which is wire rope working its way down into a loosely wound wire rope layer, and catching or damaging itself.

Winching Safety:

- Always inspect winch installation and wire rope and hook condition before operating winch. Frayed, kinked or damaged wire rope must be replaced immediately. Loose or damaged winch installation must be corrected immediately.
- Never hook wire rope back onto itself. This damages the wire rope. Always use a choker chain, wire choker rope or tree trunk protector on the anchor.
- Always prior to winching, remove any element that may interfere with safe winch operation.
- Always take your time when rigging for a winch pull.
- Always be certain the anchor you select will withstand the load, and the strap or chain will not slip.
- Never engage or disengage clutch if winch is under load, wire rope is in tension or wire rope drum is moving
- Always unspool as much wire rope as possible when rigging. Double line or pick distant anchor point.
- Never winch with less than 5 wraps of wire rope around the drum, the wire rope could come loose from the drum.
- Always stand clear of wire rope and load during operation.
- Never touch wire rope or hook while in tension or under load.
- Never touch wire rope or hook while someone else is at the control switch or during winching operation.
- Never touch wire rope or hook while remote control is plugged into winch.
- Always stand clear of wire rope and load and keep others away while winching.
- Always require operator and bystanders to be aware of stability during winching of vehicle and/or load.
- Always keep remote control lead clear of the drum, wire rope and rigging. Inspect for cracks, pinches, frayed wires or loose connections. Replace if damaged.



Safety Precautions - continued



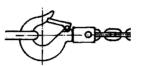


CUT AND BURN HAZARD

Failure to observe these instructions could lead to minor to moderate injury.

To avoid injury to hands and fingers:

- Always wear heavy leather gloves when handling a wire rope.
- Never let wire rope slip through your hands.
- Always be aware of possible hot surface at winch motor, drum or wire rope during or after winch use.





Moving Parts Entanglement Hazard

Failure to observe these instructions could lead to minor to moderate injury.

- **Never** apply load to hook tip or latch. Apply load only to the center of hook.
- Never use a hook whose throat opening has increased, or whose tip is bent or twisted.

NOTICE

AVOID WINCH AND EQUIPMENT DAMAGE

• Always avoid continuous side pulls, which can pile up wire rope at one end of the drum. This can damage your wire rope or winch.

- Always ensure the clutch is fully engaged or Disengaged.
- Never use winch to tow other vehicles. Shock loads can momentarily exceed capacity of wire rope & winch
- Always use care to not damage your frame when anchoring your vehicle during a winching operation.
- Never "jog" wire rope under load. Shock loads can momentarily exceed capacity of wire rope and winch.
- Never use winch to secure a load during transport.
- Never submerge winch in water.
- Always store the winch in a protected, clean, dry area.

Part number & Cord ends for the WARN® 5000

PART NUMBERS			
99964	12v DC 5000# Utility Winch - US		
99963	12v DC 5000# Utility Winch - International		



Parts List

The WARN $^{\ensuremath{\text{\$}}}$ 5000 Utility Winch consists of the following main components.



1. WARN 5000 Winch Unit	2. Remote with 12'(3.7 m) Lead
3. Fairlead	4. 2 – 6' (1.8 m) x 6 gauge cable
5. Latch Hook and Hook Strap	6. Mounting Hardware



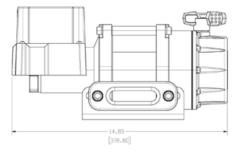
Specification Data for the WARN® 5000

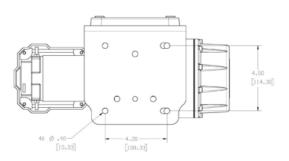
FEATURES				
Pulling Capacity	5000lbs. (2268 kg)	Brake	Dynamic and mechanical braking	
Switch Type	Remote with 12' (3.7 m)	Warranty	1 year limited	
	Lead			
Motor	Permanent Magnet	Wire Rope	1/4" (6.35 mm) X 60' (18.3 m)	
HP	1.9 HP 3.0" Diameter	Drum Diameter	2.5" (6.35 cm)	
Power	12 volt DC	Fairlead	Hawse	
Gear Train	3-Stage planetary	Hole Pattern	4 holes	
Gear Ratio	216:1	Electrical Leads	2 – 6' (1.8 m) x 6 gauge cable	
Clutch	Lever- Multi-directional	Weight	42 lbs. (19.1 kg.)	

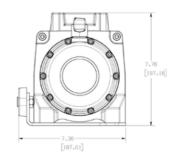
Performance Data for the WARN[®] 5000

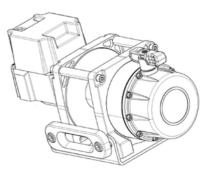
PERFORMANCE DATA: 5000							
Load		Current	Speed		Pulling Power by Wire Rope Layer		
Lbs.	Kg	Amps	Ft/min	M/min	Layer	lbs.	kg
0	0	40	13.8	4.2	1	5000	2268
1000	453.6	81	10.9	3.3	2	4280	1941
2000	907.2	118	9.3	2.8	3	3750	1701
3000	1360.8	152	8.1	2.5	4	3341	1515
4000	1814.4	188	6.8	2.1	5	3020	1369
5000	2268	220	5.4	1.6			

Dimensional Data for the WARN® 5000











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Winch Installation to fixed location

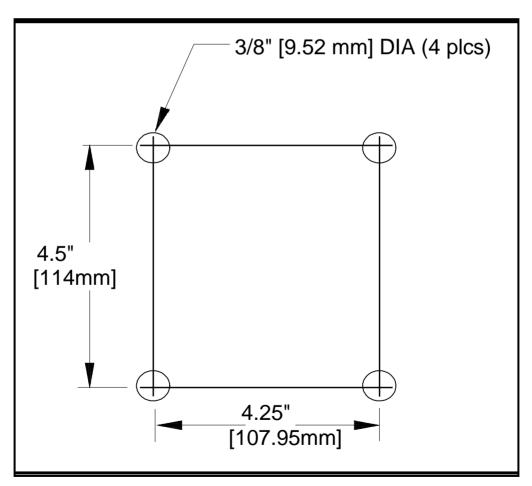
Winch Failure Hazard

Failure to observe these instructions could lead to minor or moderate injury. Always choose a mounting location that is sufficiently strong to withstand the loads you intend to winch

The 5000 can be mounted to a fixed location by utilizing the mounting hole pattern for the winch unit. First, choose a mounting location that is sufficiently strong enough to withstand the loads you intend to winch.

Next, drill four holes to the dimensions specified in the drawing below.

Mounting Plate Hole Pattern





Winch Installation to a fixed location- continued

To secure the winch, always use:

- A flat, secure mounting location at least 3/16 in. (4.8 mm) thick steel.
- 3/8 in. lockwasher x 4.
- 3/8-16 x 1in. long, hex head capscrew, Grade 5 or better x 4.
- Torque mounting bolts to 30-35 ft-lbs (41-47 Nm).

Bolt length may need to be longer than specified above depending upon the thickness of the material the winch is mounted to.

Wiring Instructions

WARNING

Shock & Fire Hazard

Failure to observe these instructions could lead to severe injury or death.

Never route electrical cables across sharp edges



- □ Never route electrical cables through or near moving parts.
- □ Always read and follow all wiring instructions included in operators guide.
- Always insulate and protect all exposed wiring and electrical terminals
- Install battery cables with red lead connected to the positive terminal of battery, and black lead to the negative terminal of battery.
- □ Verify that all wiring connections are clean and tight.

Before using the winch, verify the following:

- □ Wiring to all components is correct.
- □ There are no exposed wiring or terminals, cover any existing exposures with insulator plate, terminal boots, heat shrink tubing or electrician's tape.



Operating Instructions

USING THE REMOTE CONTROL

The remote pendant control is hard wired to the winch and can be operated in the remote position away from the winch unit or with the pendant docked in the carrier plate.

Press the black power-out button to spool wire rope off of the drum, or press the white power-in button to spool wire rope onto the drum.

POWER-OUT	POWER-IN



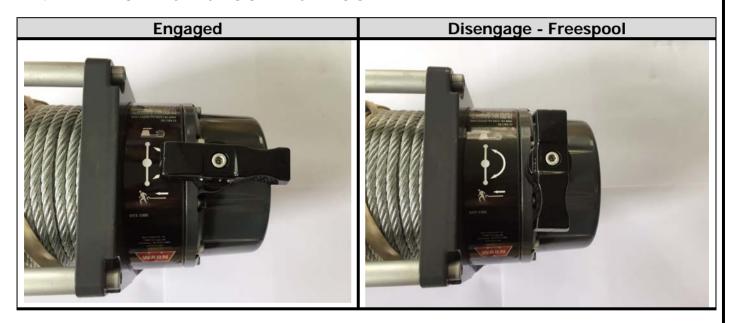
CLUTCH OPERATION

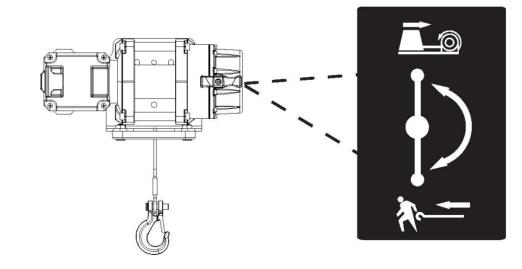
WARNING

Winch Function Hazard

Failure to observe these instructions could lead to injury or property damage Never engage or disengage the clutch if the winch is underload or wire rope is under tension.

When the clutch is engaged the gear train is coupled to the wire rope drum and power may be transferred from the winch motor. When the clutch is in freespool the gear train and wire rope drum are uncoupled allowing the drum to rotate freely. The clutch lever, located on top of the motor, controls the clutch position. To prevent damage, always fully engage or fully disengage the clutch lever.



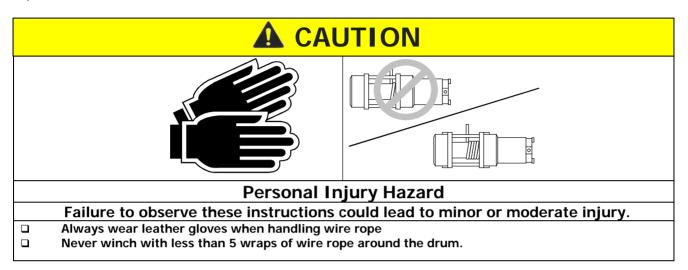




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SPOOLING OUT

Freespooling is generally the quickest and easiest way to spool out wire rope. Before freespooling wire rope out from the winch, power out enough rope to remove any tension the wire rope may be under before disengaging the clutch. Now freespool by manually spooling out enough wire rope for the winching operation.



STRETCHING THE WIRE ROPE

The life of a wire rope is directly related to the care and use it receives. During its first use, a new wire rope must be spooled onto its drum under a load of at least 500 lb. (227kg). Spool out the entire wire rope length leaving 5 wraps on the drum, then power in the wire rope under a load of 500 lb. (227kg) or more. This will stretch new wire rope and create a good wire wrap around the drum. Failure to do so may result in the outer wire wraps drawing into the inner wraps, binding, and damaging the wire rope.

Moving Parts Entanglement Hazard Failure to observe these instructions could lead to severe injury or death. Image: Construction of the wire rope, hook loop, hook and fairlead opening during installation, operation and when spooling in or out. Image: Construction of the wire rope in or out, during installation, or operation to avoid injury to hands or fingers.



SPOOLING IN UNDER LOAD

- **□** The wire rope must always spool onto the bottom of the drum as indicated by decal on the winch.
- Power in the wire rope evenly and tightly on the drum. This prevents the outer wire wraps from drawing into the inner wraps, binding and damaging the wire rope.
- □ Avoid shock loads when spooling, by using the control switch intermittently to take up wire rope slack. Shock loads can momentarily far exceed the winch and wire rope ratings.

SPOOLING IN UNDER NO LOAD

- □ Assisted: Have your assistant hold the hook with the hook strap putting as much constant tension on the wire rope as possible. While keeping tension, the assistant should walk toward the winch while you operate the control switch spooling in the wire rope. Release the switch when the hook is a minimum of 4 ft (1.2m) from the fairlead opening. Spool in the remainder for storage.
- □ **Unassisted:** Arrange the wire rope to be spooled so it will not kink or tangle when spooled. Be sure any wire rope on the drum is tightly and evenly layered. Spool enough wire rope to complete the next full layer on the drum. Tighten and straighten the layer. Repeat process until the hook is a minimum of 4ft (1.2m) from the fairlead. Spool in the remainder for storage.

SPOOLING REMAINDER FOR STORAGE

Keep hands clear of the wire rope, hook and fairlead opening. Always use the hook strap to hold hook when spooling under no load. Carefully power in the remaining wire rope, jogging the control switch to take up the last of the slack. Secure the hook to a suitable anchor point near the winch. Be careful not to overtighten or damage may occur to the wire rope or anchor point.

RIGGING

- □ Always spool out as much wire rope as possible when preparing rigging. Pick an anchor as far away as is practical; this provides the winch with its greatest pulling power.
- Rigging a double line with a snatch block will reduce the load on the winch to half without significant loss of spooling speed.
- Natural anchors such as trees, stumps and rocks are the handiest when available. Attach the choker chain, wire choker rope or tree trunk protector on the anchor as low as possible to avoid pulling the anchor down. If several possible anchors are available but they are not strong enough individually, it may be practical to attach a wire or chain choker around several anchors to form a strong collective anchor point.



OVERLOADING/OVERHEATING

This winch is rated for intermittent duty. It should not be operated with the motor slowed down to a low RPM. When the motor approaches stall speed, a very rapid heat build-up occurs which may cause motor damage. Double line rigging will reduce the amperage draw from the motor allowing longer continual use (see rigging section).

Maintenance & Warranty

MAINTENANCE

- □ No lubrication is required for the life of the winch.
- □ Inspect the wire rope before and after each winching operation. Replace when damaged.



Discover other winches and accessories on our website.