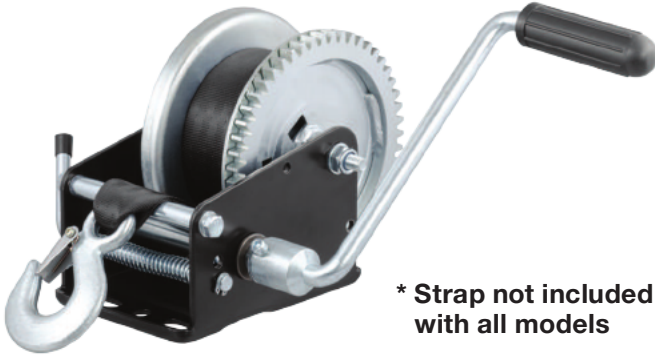


# INSTALLATION INSTRUCTIONS

**WARNING: NEVER EXCEED THE SPECIFIED LOAD CAPACITY INDICATED IN THE TABLE BELOW**

## HAND WINCH



\* Strap not included with all models

## WARNINGS

Read this manual carefully before installation or use of this product. The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into the product and are the responsibility of the end user.

Never exceed the maximum load capacity as specified for each model in the table below.

Part#	Capacity	Gear Ratio	Handle Length
29427	1,700 lbs.	5.1:1	8"
29428	1,900 lbs.	5.1:1	8"
29429	2,100 lbs.	5.1:1	8"
29438*	1,900 lbs.	5.1:1	9 3/4"

\* Winch strap included

Avoid sideways cable slip and winch overloading. The cable under a load should only be wound onto the drum so that a minimum space of two times the cable diameter remains on the drum flange.

Do not use any attachments to extend the length of the winch cable.

Always leave at least five wraps of cable or belt on the drum. Failure to do so may break cable connection to the drum and could result in serious injury.

## WARNINGS (CONT)

Make sure the winch base is properly bolted to a structure or vehicle that can hold both the winch and winch load. Failure to properly bolt down the winch can result in personal injury and / or property damage.

After moving an object with the winch, secure the object. Do not rely on the winch to hold an object for an extended period of time.

Do not apply a load to the winch when the winch cable is fully extended. The cable anchor on the winch is not capable of holding the maximum rated load capacity.

When loading a boat onto a trailer without keel or side hull rollers, make sure the trailer is submerged in the water when the boat is loaded by the winch. Attempting to drag the boat onto the trailer while on land can cause winch failure and possibly personal injury and property damage.

Stand back and stay out of the direct line that the winch cable is pulling. In the event the winch cable slips or breaks, it will 'whip-lash' along this line.

Keep work area clean and dry; damp, cluttered and wet areas invite injuries. Keep children away from the work area and do not allow them to handle the winch.

Use eye and hand protection. Wear impact safety glasses and heavy duty work gloves when using the winch.

Do not wear loose clothing or jewelry that can be caught in moving parts. Wear protective hair covering to prevent long hair from becoming caught. If wearing a long sleeve shirt, roll the sleeves up to the elbows. Do not overreach the winch. Keep proper footing and balance at all times to prevent tripping, falling, back injury, etc.

Check for damaged parts and any other conditions that may affect operation of this winch. Carefully check that it will operate properly and perform its intended function. Replace or repair damaged or worn parts immediately.

Check the rope, cable, or strap before each use for signs of wear. If rope, cable, or strap show signs of wear, replace immediately.

Always maintain a firm grip on the winch handle and do not release the handle until the ratchet pawl is properly engaged. Release handle slowly to be sure that ratchet lever is fully supporting the load.

Never use a hand winch for lifting equipment or humans.

## HANDLE INSTALLATION

Prior to operating the winch, secure the handle to the input shaft with the provided set screw.



## WINCH INSTALLATION

To secure the winch to the mounting location, you will need three grade 5, 3/8" diameter bolts, three lock washers, six flat washers and three nuts.

Place the lock washer, then a flat washer on the bolt. Place the bolt through the mounting hole on the winch. Add one more flat washer and secure with a nut.

## STRAP INSTALLATION

To secure the winch strap, place the provided strap bolt through the sewn loop in the winch strap. Secure with the strap bolt nut.

**Note:** The installed winch strap should be rated at 1.5 times the winch's rated capacity. The hook on the strap should be rated at 1.5 times the strap's rated capacity.

## CABLE INSTALLATION

### Step 1

Insert the steel cable through the square hole from the inside to the outside. Insert the cable through the second hole from the outside to the inside.

### Step 2

Insert the cable through the square hole from the inside to the outside. Pull the cable tight.

### Step 3

Wrap the cable onto the drum.

## OPERATION

### Step 1

Verify the winch is properly secured to the winch mount and the winch handle is properly secured to the winch input shaft.

### Step 2 - Winding strap in:

Engage the ratchet lever in the pinion gear and begin turning the handle. The ratchet will make a loud clicking noise when the line is being wound on the winch drum.

**WARNING:** If you do not hear a loud clicking noise, the ratchet is not securing the load. Do not let go of the handle until the load has been secured.

### Step 2 - Letting strap out:

Firmly hold the winch handle and release the ratchet lever. The handle may need to be rotated slightly to move the ratchet lever. Carefully rotate the handle to let line out. Do not let go of the handle until ratchet lever has been properly engaged and is supporting the load. Let go of the handle slowly to be sure that the ratchet lever is supporting the load.

**WARNING:** Never let go of handle prior engaging the ratchet lever as this may cause the handle to spin dangerously.

