

HOIST A TOP[®]

PLEASE READ ALL INSTRUCTION BEFORE INSTALLATION

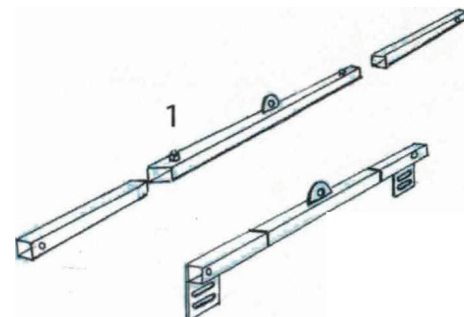
Parts List

Parts are listed by part number, description, and quantity. **Parts are updated periodically and may vary in color or shape.**

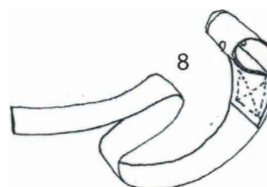
Hoist-A-Top Crank Specialty

Part #	Description	Qt
Frame		
SPC-001	30" Front Lifting Bar	1
SPC-002	25" Rear Lifting Frame	1
SPC-003	21.5" Front Attachment Arms	2
SPC-004	13" Rear Attachment Arms	2
SPC-005	Straps	2
SPC-006	Strap Sleeves	4
HAT-018	2" Round Foam	8

SPC-001 SPC-002 SPC-003 SPC-004



SPC-005



HAT-018



Hardware Parts Bag

HAC-028	Small Plastic End Caps	4
HAT-050	3.5" Wood Screws	12
HAT-125	1.5" Wood Screws	12
HAC-043	Wire Rope Clamps	6
HAT-054	3" Lag Screw	2
HAC-023	3/8 Flat washer	2
HDW-091	Lock Pin	2
HDW-031	Thimble	2
HDW-092	Set Screws	4
HDW-023	Hex Key	1

HAC-028



HAT-054 HAT-050 HAT-125

HAC-043



Crank Unit & Mounting Components

HAC-010	Crank Unit	1
HAT-116	Single Flush Mount Pulley	2
HAT-118	Double Flush Mount Pulley	1



HAT-091

HAC-023



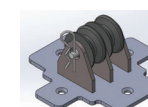
HAT-142

HAC-010

HAT-116



HAT-118



Lange Specialty Crank Installation Instructions

Tools needed: Safety glasses , gloves, screwdrivers, socket wrench set with driver and sockets, drill, standard drill bits, stud-finder, screw gun bit, and a wood saw. Grease lubrication for worm gear.

Installation Time: 1-3 hours depending on experience

Installation Difficulty: 3 out of 5. Person should have a basic knowledge of common household tools and be able to find a wall stud without difficulty. Specialized tools not required.

Lifting Cautions

Never lift your top so it is tight against the ceiling. This puts undue stress on the top and the Hoist. Keep your body, especially your hands away from edges of the top. We recommend you push or pull the top from the side and not use the bottom edge. There is a natural tendency to align the top with your fingers under the edge.

Periodically check nuts and bolts on the Hoist-a-Top® system for tightness. Also, inspect the ceiling mounting points for damage, or bent parts. Tighten power unit motor bolt to prevent oil leaks.

All Garages are different. Carefully read and watch the video and written instructions before installing. If you are unsure or uncomfortable with installing this product contact a structural professional. Always test this mechanism using a static and live load. Never stand, allow children, or pets under a lifted object on this mechanism. Misuse or improper installation of this product can result in serious injury or death. Follow all safety rules and regulations of tools and ladders while installing this product. Wear safety glasses, gloves, and boots while installing this product. Never walk under or allow others to either play , stand, or work under the top.

If you need help or are missing a part **DO NOT CALL YOUR DEALER. You will receive faster support though the factory 1-866-284-7428** We offer technical support Monday through Friday 9:00 AM to 4:30 PM Mountain Standard Time. Send us an inquiry via our website hoistatop.com anytime, or contact1@langeoriginals.com. No question or problem is trivial so we'll try and help any way we can. We use these products ourselves and like them, we hope you will too. Lange Originals® is not responsible for damage or personal injury due to improper installation, custom installation that doesn't follow the instructions, or neglect.

Warranty: This product has a 1 year limited warranty from the invoice date of purchase for defective parts only. Lange will repair or replace parts at their discession. For full warranty information please see langeoriginals.com and click on warranty, and find your specific ordered part number. Valid invoice/receipt required.

We use all the products we make because we are Off-Road enthusiasts. The author (me) of these instructions did the best to show you how to make this wonderful product come to life and make your life easier. If you think we did that, leave us some good star ratings where you bought it from! If not, call, email, or message us on one of our social media pages and we will bend over backwards to make it work. Happy trails and say hi to us if you ever see a Hoist A Cart or Hoist A Top logo plastered all over our Jeeps!



CONTACT US:

Toll free 1-866-284-7428

www.langeoriginals.com

contact1@langeoriginals.com

<https://www.facebook.com/LangeOriginals/>

3651 South 700 E

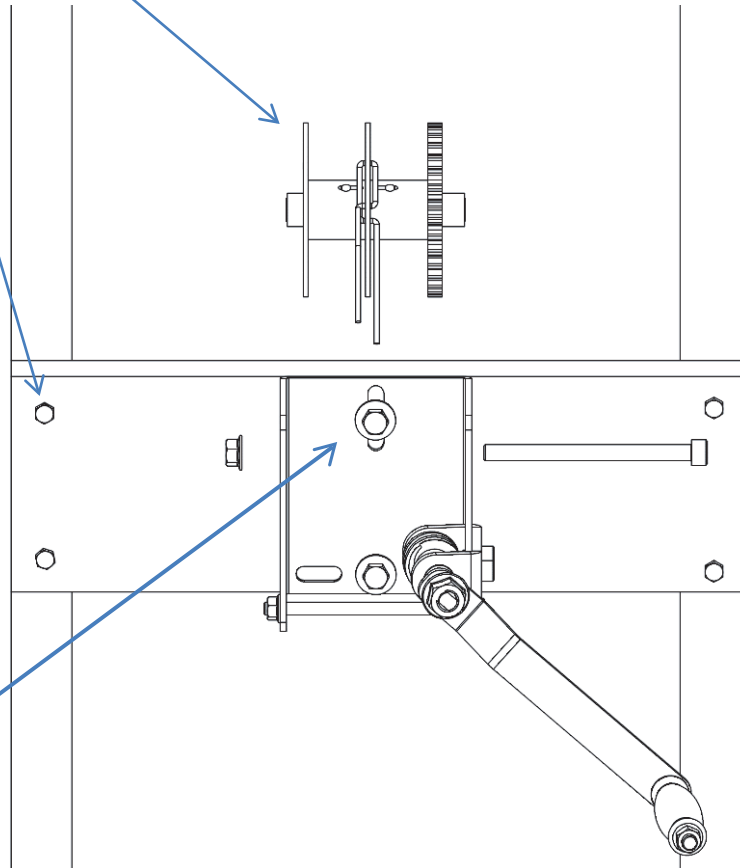
Salt Lake City Ut 84106

Installation of the crank unit

1. Remove the spool from the crank unit using 11/16 and 9/16 sockets.

2. Cut one section of 2x6 to roughly 20 inches. Mount it to your back wall using at least 4 screws (HAT-050). You will want this at comfortable working height, approximately 50-inches above the floor.

3. Mount your crank unit to the 2x6, centered with your hardtop, using both 3" lag screws and washers (HAT-054 & HAC-023) provided.



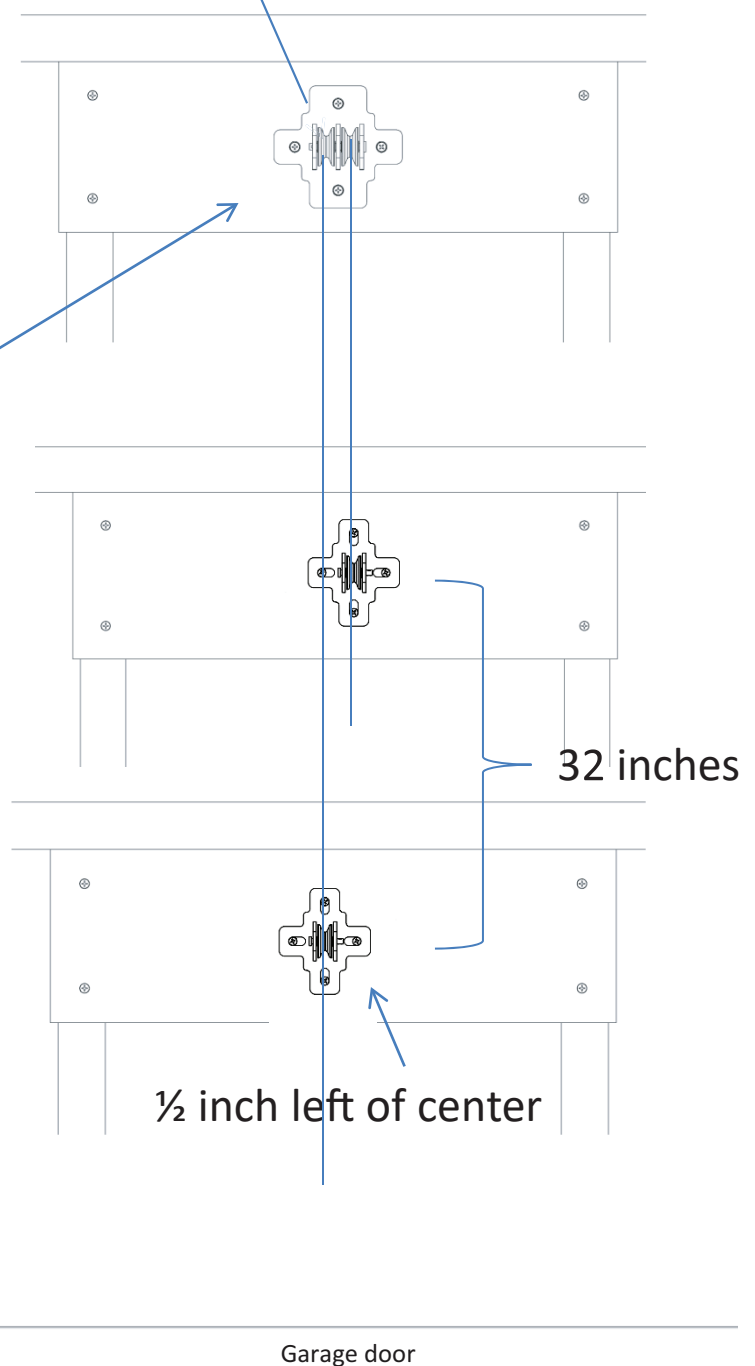
Ceiling Perpendicular Stud Installation

Determine if your studs run perpendicular or parallel with your garage door. If your studs run parallel to (or the same direction) as your garage door go to the next page.

1. Use the remaining 3.5" screws (HAT-050) to place cross bracing 2x6.
2. With the 1.5" screws (HAT-125) provided, mount the double pulley (HAT-118) and one of the single pulleys (HAT-116) centered with the crank unit and hardtop.
3. Mount the second single pulley (HAT-116 & HAT-125) ½ inch left of center on the 2x6. This will allow the second cable to run along the ceiling without interfering with the other cable.

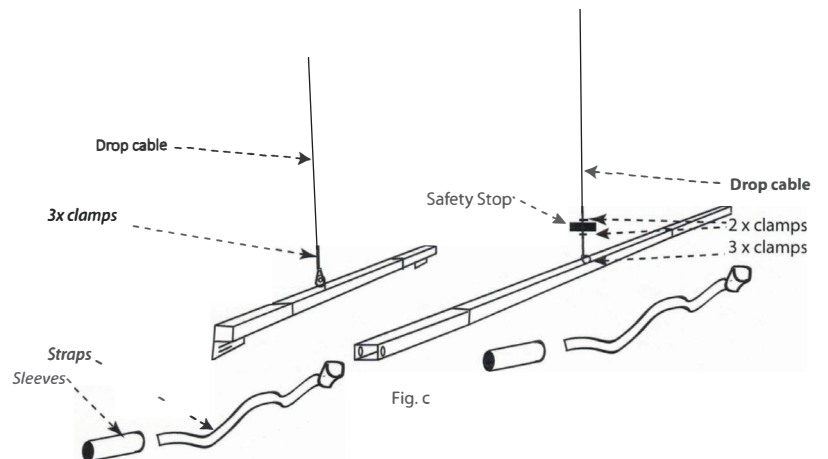
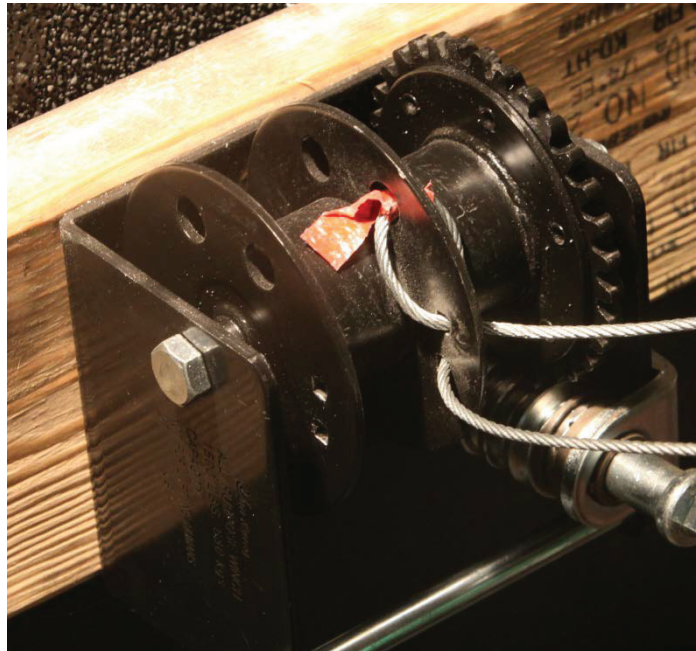
Hint:

It may be easier to put in the screws when the wheels are removed



Installing the cable

1. Unclip the wire bundle and stretch out the wire. The cable is 43 feet in total. 23 feet for the left side of the drum and 20 feet for the right side drum.
2. Mark the cable at the 23 foot line with a marker or piece of tape. Center your mark in one of the holes and lace one of each side of the cable through two holes. You should finish with the longer cable on the left side of the spool.
3. Loop both wire ends through the double pulley in the corner of the ceiling. Take care that the cables don't cross and that the long side stays on the left pulley and the shorter side stays on the right.
4. Pull the right side cable (the shorter cable) through the middle single pulley in the ceiling. This line will be for the rear of the lifting frame.
5. Pull the left side cable (the longer cable) through the front pulley (this should be the pulley that was installed $\frac{1}{2}$ inch left of center) This cable will attach to the front of the lifting frame.
6. Attach the cables to the front and rear using the wire thimbles and clamps. Use the farthest back hole for the second lifting point. See the next page for details



HOISTA TOP[®]

Frame Assembly

Frame Bridge Assembly

There are four frame pieces. Assemble into the format shown in Figure f.

Use the two allen set screws to secure the three-piece front bridge Figure f-1. This bridge should be two inches wider than the object you are lifting.

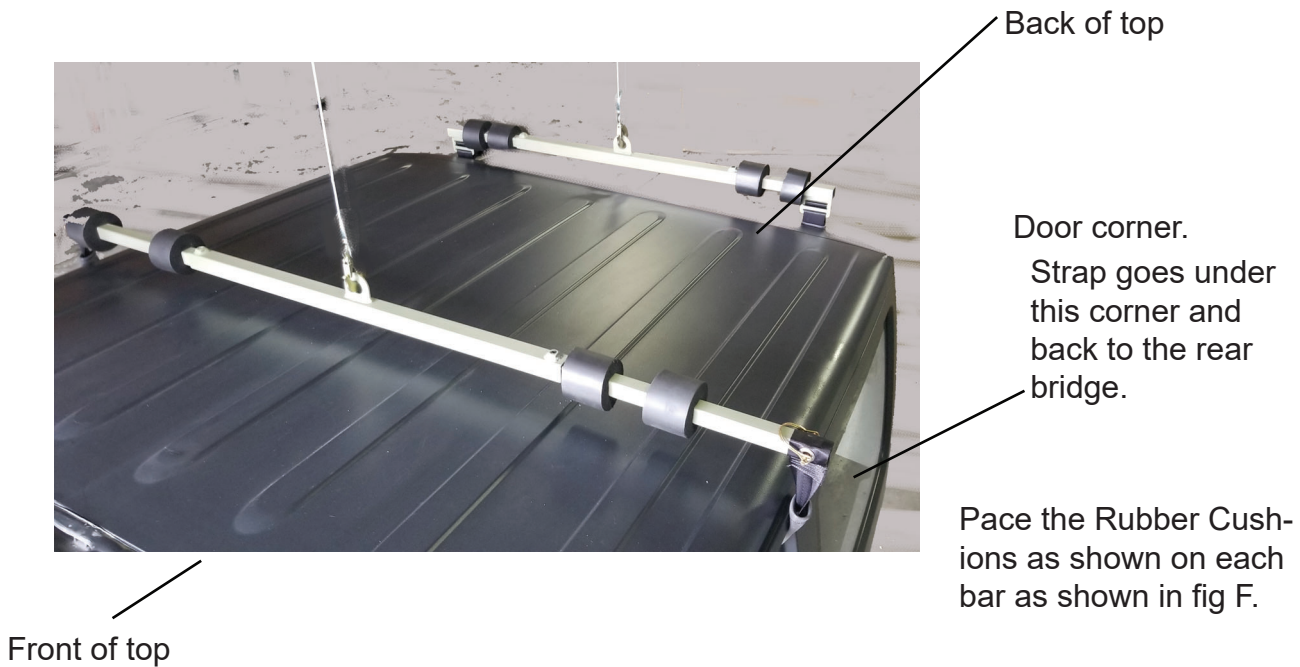


Figure f

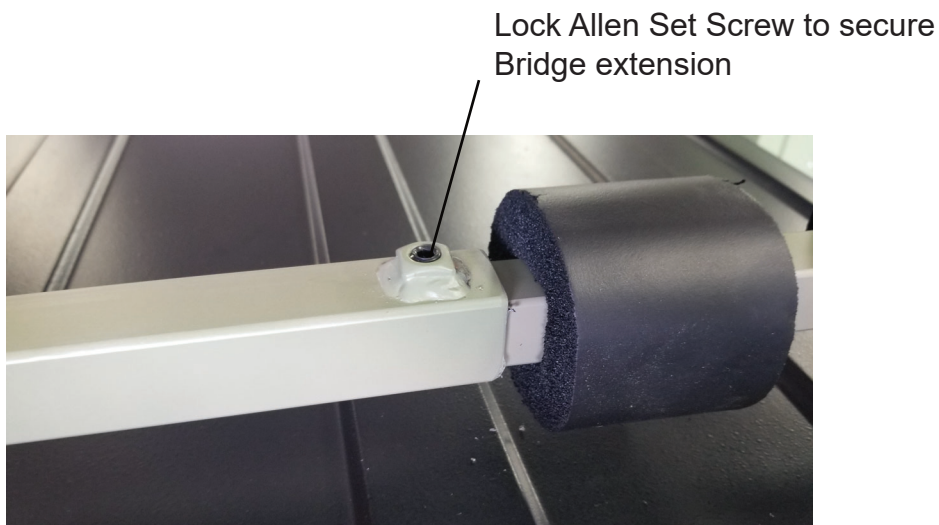


Figure f-1



Slide the looped end of each Straps on the end of the Bridge and align the holes in the strap with the hole in the Bridge. Pin the straps to the Bridge through these holes with the Safety Pins.

Close the clip on the Safety Pins so the strap is secured.

Figure g

Lay each Bridge bar on your top/tent when the vehicle is in the correct position under the cables. Check the alignment so the cables are correctly in line with the Bridge bars for a proper lift. Then attach the cables using the cable clamps and the strain relief as shown in Figure h. Connect the straps as show in Figure g and Figure i.

Take the cable from the pulley on the ceiling and loop in through the center eye lug on the front Bridge. Insert the "U" shaped strain relief strain relief and attach the three clamps as shown (keep the clamps loose). Bring enough cable through to loop over the top clamp and then thread through the bottom two clamps so a pig tail shows. This is the safety wrap. Now tighten each nut on each clamp tightly using a socket. No crescent or lock pliers. Tighten enough to squeeze the cables. Now do the same for the rear Bridge and Cable.



Figure h

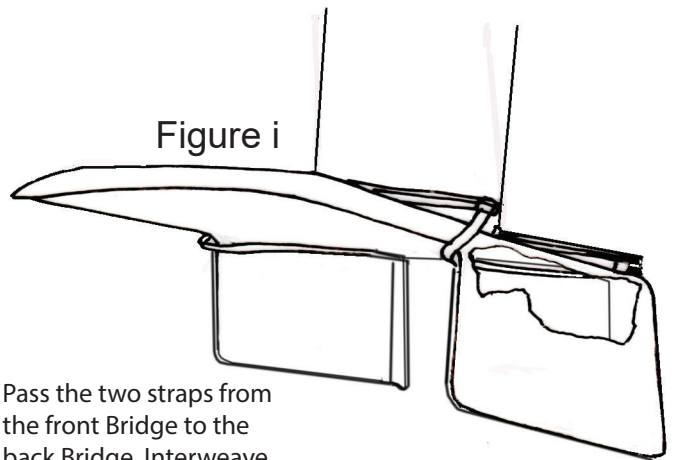


Figure i

Pass the two straps from the front Bridge to the back Bridge. Interweave the strap into the rear bar's channel as shown in Figure j

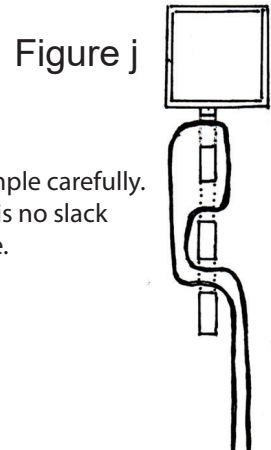


Figure j

Side view. Follow this example carefully. Tighten the strap so there is no slack front Bridge to back Bridge.

Removing Your Top, Shell, Camper etc.

Position your vehicle under the Hoist-a-Top and route and attach the straps as previously described. The easiest way to do this is to disconnect the front Bridge by pulling the Pin and pull the straps off the ends of the Front Bridge. Then route the straps under and back to the front and re-attach the straps to the front Bridge and seat the safety Pins.

Safety First

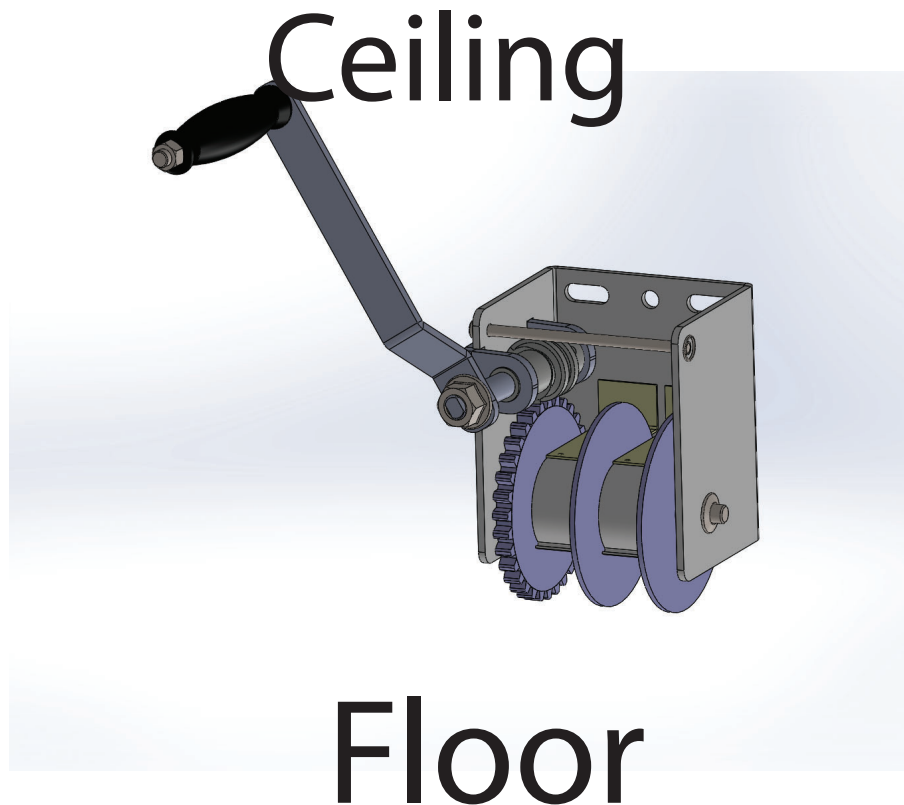
If this is the first time lifting please check the following:

1. Check the ceiling mounts and that the Winch, pulleys, and cribs are screwed into solid wood rafters. Experience says that problems occur when screws miss the wood and instead are held by just sheet rock.
2. Test the Hoist-a-Top with several up and down cycles to make sure you know how to operate the winch.
3. Make sure that the safety stop is working at the top of the lift cycle, and that the Winch stops automatically.
4. Never allow children or others to operate the Winch. Make sure it is out of reach of children or turn the power off when not in use.
5. Do not stand or walk under a lifted object for your own safety.
6. When lowering a Top etc. , use caution and stand away from the object being lowered.



ITEM 1: The worm gear and drive have a normal break in period. During this time the worm drive and gear will have some sacrificial metal shavings. This is normal. The drive and gear requires lubrication each time it is used. Some lubrication is provided and should be used before any turning of the gears.

ITEM 2: Contrary to any other written instruction or video the orientation of the winch crank unit should be as pictured below with the guide rod and crank toward the ceiling.



ITEM 3: IMPORTANT We are no longer recommending customers use a drill or any other method besides hand cranking this unit. If any other method is used, it must be on the lowest speed the drill is capable of below 150 RPM or hand cranking speed. Use common sense. High speed usage of a drill will void the warranty.

Lange Originals Limited Warranty

What the Warranty Covers:

This warranty covers defects from the manufacturing process that would render the product unusable. It also covers items missing from the packaging unless the damage or loss is the result of mishandling by the shipper. This warranty supersedes all other product warranties in the instructions page.

Who is Covered?

This warranty covers the original purchaser of this device with an invoice of purchase or receipt from a valid current dealer.

How Long Does the Coverage Last?

This warranty remains in force for one year, to the original purchaser, from the date of purchase on the invoice or receipt. This warranty applies only to approved dealers of Lange's products.

What We Will do to Correct the Problem:

Lange Originals will repair or replace, at their discretion parts or the whole. Warranty does not cover 3rd party labor, or return shipping.

How do I Get Service?

To obtain warranty repairs, you must obtain authorization from Lange Originals for either a return, or replacement part. If you wish to make other arrangements for repairs/replacement, notify us on our form via our website langeoriginals.com and click on the warranty tab. We will respond in writing on how to proceed. Please do not contact your dealer, contact Lange Originals directly to avoid delays. Please note you will be asked to provide information such as dealer receipt/invoice and sometimes pictures of the item. Return shipping is not covered. We will ship any repaired or replacement items at no cost.

Normal Responsibilities of the Buyer:

Buyer is responsible for the inspection and tightening of bolts, nuts, screws, lag screws, gears, pulleys, casters, u-clamps, hooks and any other parts that require regular attention. Lubricating of some parts is necessary such as the crank type worm gear, on crank type lifting units.

This Warranty Does Not Cover:

1. Any defect caused by abuse, misuse, neglect, carelessness, or accident.
2. Loss of time, loss of use, towing charges, bus fare, car rentals, labor costs of installers, or other incidental damages of property.
3. Damage as a result of not properly following directions, or common safety practices with tools, ladders, and other instruments or tools during installation.
4. Deterioration from wear or exposure.
5. Any defect caused by alteration or modification of the home/garage.
6. Any defect which would not have occurred if instructions in the instruct manual had been followed.
7. Failure of an Chrysler product due to lack of understanding. For example if a buyer does not correctly unfasten electrical cables
8. All disputes concerning this warranty would take place in Utah courts and under Utah law.
9. Shipping damage is covered under our customer satisfaction 30 day return policy, but is not covered after this period of time.
10. Minor cosmetic issues such as paint flaws, mis-shaped foam pieces that do not affect the function of the product as determined by Lange.

Lange Originals LLC reserves the right to change this document at any time and is not limited to the terms and conditions described here. For a comprehensive warranty on your specific part number/product please visit us at www.langeoriginals.com and click on the warranties page.