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## Installation Instructions

Hardtop Hoist

Part# 510001

### Winch install



Read all instructions prior to install. Winch is powerful and can damage your top , garage, or wall if you do not follow instructions or use common sense. Professional installation is recommended. If any you are unsure of any step contact Smittybilt or a local contractor.

1. Find the best location for the winch motor. Use a stud finder to locate joist behind drywall if needed. Mark the center of the joist.
  - Keep winch as close to jeep as possible so you can reach the controls while manipulating the top onto or off the jeep.
  - You need to tie into a minimum of two 2x4 studs/joists when mounting.
  - Make sure your joists have adequate support to support a minimum of a 400 lb. load.
  - If wall mounting , mount winch as high as possible.
  - Use wall mount for ceilings under 9 ft., use ceiling mount for ceilings above 9 ft. This is only a suggestion and mounting position will vary depending on garage style and vehicle height.
  - If an extension cord is used, use the shortest extension as possible. Use at least 14 gauge extension cord.

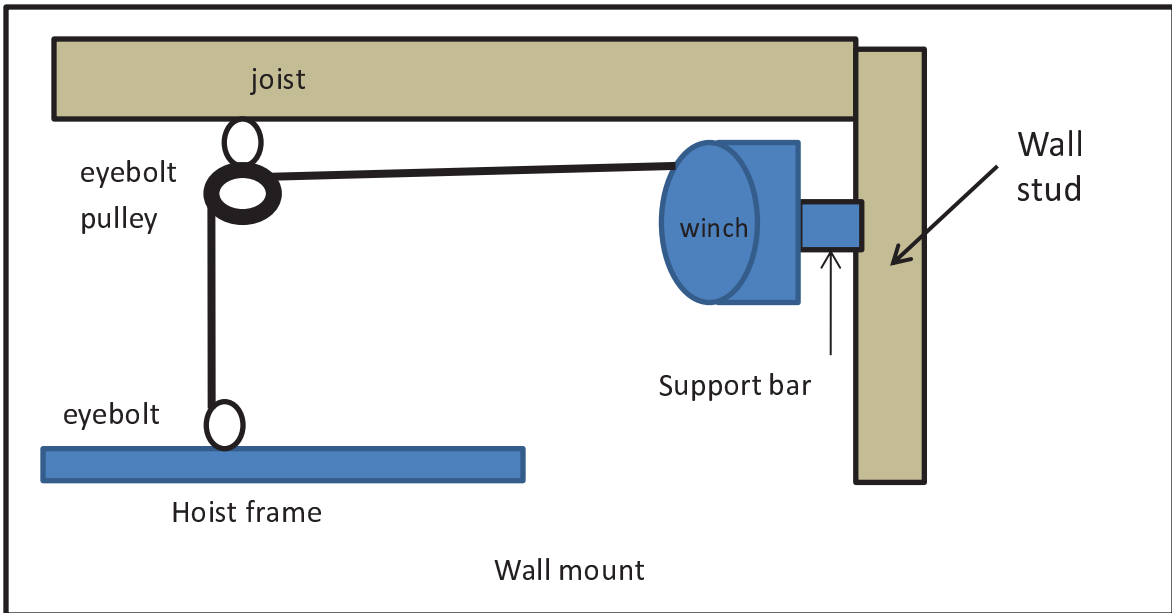
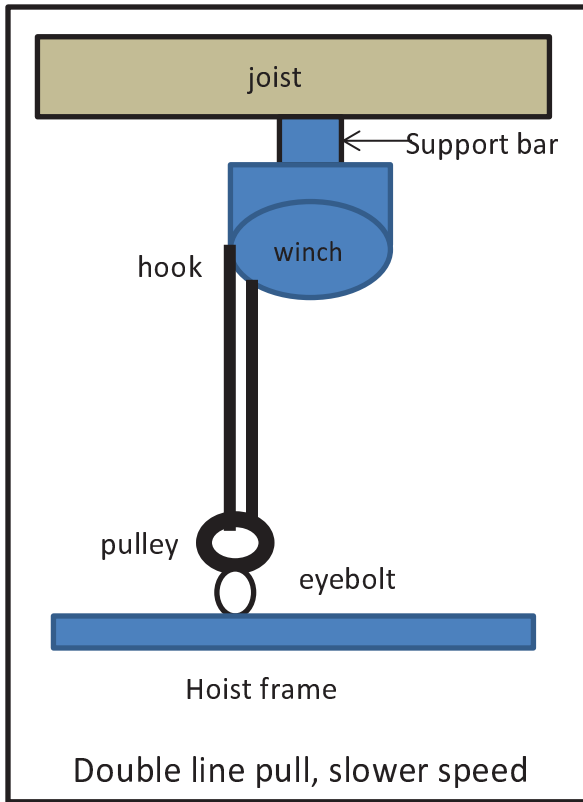
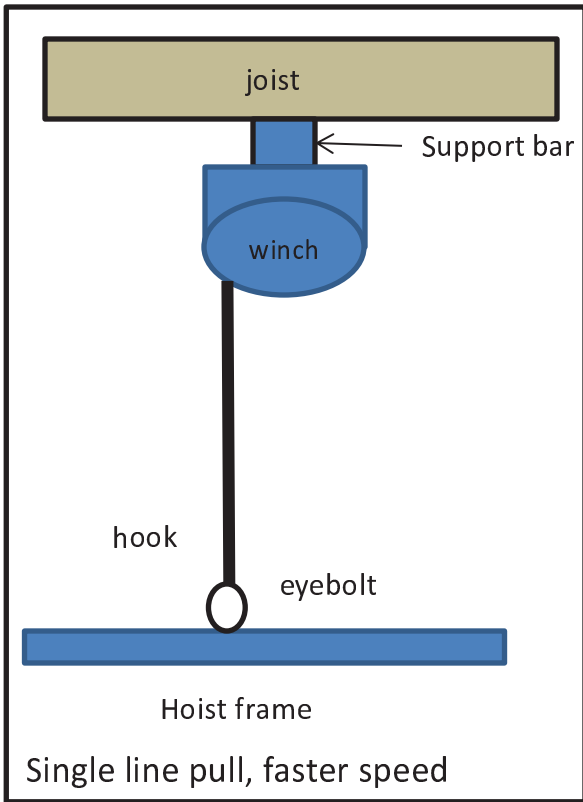
2. Build a winch mounting bracket/support bar. Size will vary depending on joist configuration. Commonly joist will have a 16" or a 24" center to center measurement . You can use the included support bar for 16" stud centers. Most commonly used are 1 ½" pipe or unistrut, available at most hardware stores if you need specific length other than the supplied 16" stud support bar.

For Technical Support/Warranty Information please call 310-762-9944  
Smittybilt, 400 W. Artesia Blvd Compton, CA 90220



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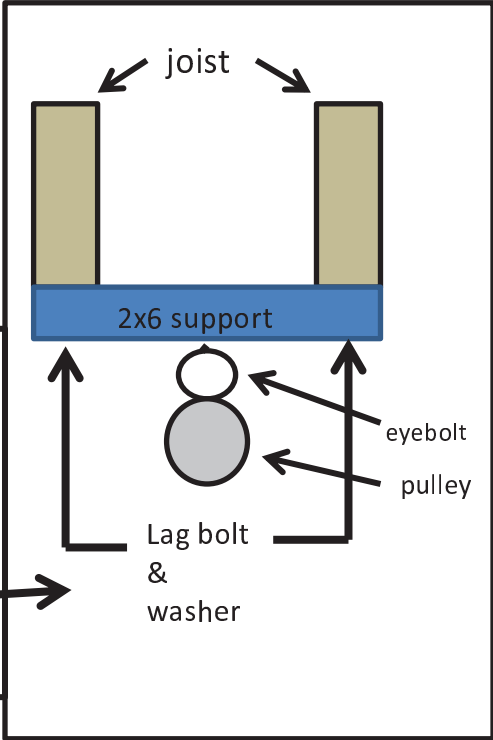
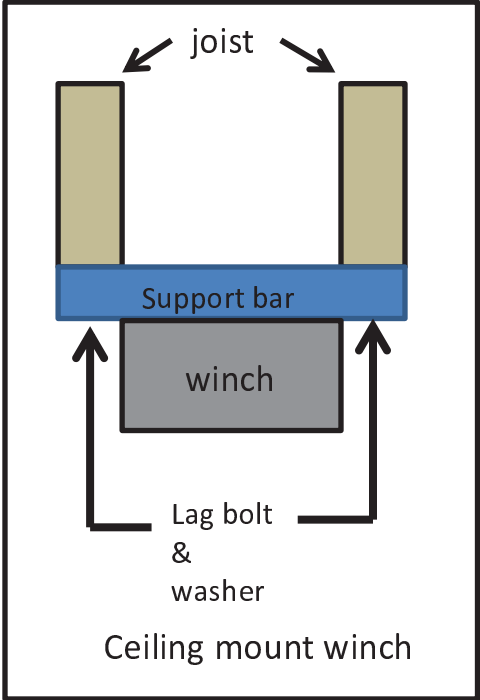
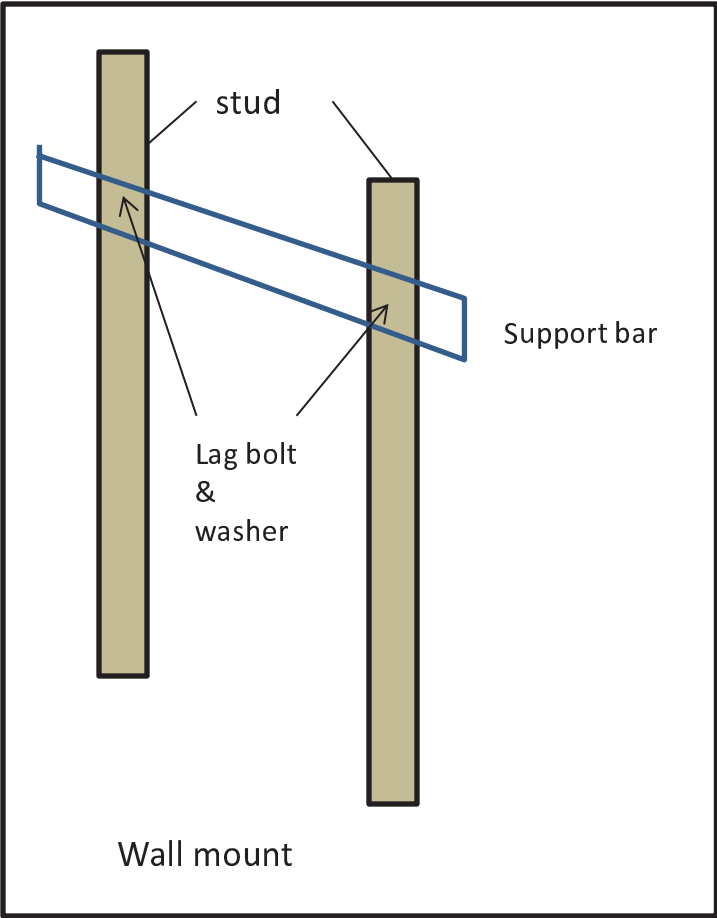


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Wall mounted winch with ceiling mounted eyebolt. Eyebolt mounting.

**Note:** 2x6 support may also be needed as a base depending on joist/stud configuration.

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3. Install the support bar. Locate the best spot and find the two or more studs you will be using. This can be done with a stud finder. Mark the center of the stud. 3/8"x4.5" (M10x110mm) lag bolts are recommended for 2x4 joists, included. Longer bolts should be used with 2x6 and larger joists. Always drill a pilot hole into the joist before installing lag bolts or eyebolts. 3/8"(M10) lag bolts would use a 1/4" pilot hole. A general rule is to have lag bolt go into joist/ stud 3/4 of the height. Attach winch brackets to support bar before completely tightening support bar.

**Note:** Make sure there are no knots or other imperfections in the joist. If imperfections are found, reinforcement will be necessary by bolting 2x4 or 2x6 to each side of the joist. If wall mounting the winch, use a 2x6 bolted to the joist for mounting the eyebolt and pulley.

4. Test hoist system using a minimum of 200 lbs. of dead weight. Lift and lower weight at least 10 times. You will become familiar with the speed and start/stop function of the winch. If desired, use the double line pull to slow winching speed, this will also double the capacity of the winch. DO NOT exceed capacity of winch or mounting location. Become familiar to doing one smooth pull when lifting or lowering top to avoid damage to top, winch or winch mount.

**Note:** Always keep remote out of reach of children or individuals not familiar with hoist system. This will help avoid unintentional powering of winch.

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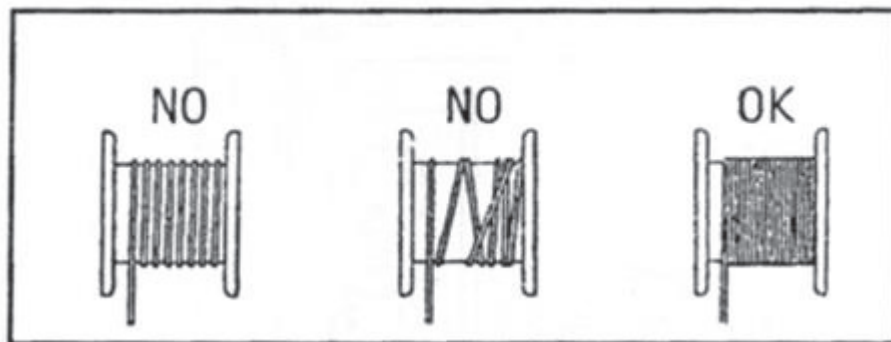
### Safety lockout remote.

Push lockout button "IN" to lock the remote. This will disable the rocker switch.

Twist lockout button clockwise and button will pop up indicating that it is in operation mode.

You can now raise or lower the winch by pressing the rocker switch.

**Note:** Always make sure the wire rope is spooled correctly on winch drum.



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### Caution: WARNING

- Always make sure all fasteners , wires and fluid lines are disconnected before removing hardtop. Rubber seals may stick, break them loose before lifting.
- Use caution when lifting top, pay attention to rear glass, open glass slowly and allow it to rest on foam cores gently to avoid damage to glass.
- When lifting, keep all body parts away from the underside of the hardtop.
- Always check winch and hoist hardware before each use. Do not use winch if cable is damaged.
- Always align jeep carefully before lifting top to avoid top from shifting and hitting jeep. It is helpful to mark the garage floor with tape to assist with vehicle alignment.
- Use caution when lifting the top. Take care to not over lift, always stop winch before hook/pulley reaches the winch. Damage to top , ceiling or wall will occur.
- Never use winch to lift people or live animals.
- Be aware of all surrounding objects or obstructions before lifting.
- Never stand under the top when stored in the raise position. Keep children , pets, and people away from the underside of the top.
- Do not lift more than the rated load capacity. Be aware of dynamic loading. Dynamic( moving) loads may create shock loads which can exceed the load capacity .
- Do not operate hoist with a twisted, damaged or kinked wire rope. Inspect rope before each use.
- Do not operate with an improperly spooled wire rope.
- **WARNING:** People with pacemakers or other medical implants should consult their physician before using this product. Operation of electrical equipment in close proximity to a medical implant may cause interference or failure of implant.
- Winch must be plugged into a properly grounded 3-wire socket with the proper amperage capacity.
- Do not use hoist outdoors or in wet environment.

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### Limited Warranties

## **WARRANTY DOES NOT COVER IMPROPER OR POOR INSTALL**

Smittybilt's products are covered under the following limited warranties only. Note that the duration of the limited warranty differs according to the material and finish of the product purchased. Subject to the duration and conditions of the limited warranty stated below, Smittybilt warrants to the original retail purchaser that its products are free from defects in material and workmanship. All other warranties and representations express or implied, are hereby disclaimed, including fitness for merchantability and buyer's intended use or purpose. All parts are sold "AS IS" except for the limited warranties granted herein. Buyer assumes all risks as to the selection, suitability and performance of all goods and products selected. This limited warranty does not cover damage or impairment in any part due to misuse, improper installation, accident or contact with on-road or off-road hazards, product modification, improper or inadequate cleaning and/or maintenance. Smittybilt is not responsible for items damaged during shipping. This warranty is not transferable from the original buyer. For the original Buyer to be eligible for the limited warranty coverage, the Buyer must provide proof of purchase. Smittybilt strongly recommends returning the warranty registration card.

Customer's remedy hereunder shall be limited only to repair or replacement (at Smittybilt's option) of any defective part(s) returned to Smittybilt at customer's expense. The determination of whether or not a returned part is defective or subject to coverage under the limited warranties stated herein shall be made at Smittybilt's sole discretion.

To assure product quality, Smittybilt reserves the right to change product design, material, specification and finishes without prior notice to customers. This limited warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply as to you. Also, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Smittybilt reserves the right to discontinue product lines and substitute products, or provide other remedies than those listed in this limited warranty for those discontinued products.

### **Warning**

Rollover and other types of vehicle accidents may result in serious injury or death to you, your passengers and others sharing the road. Smittybilt accessories are decorative and are not intended to reduce or avoid injury or damage in the event of an accident. The weight and location of Smittybilt accessories may affect your vehicles' handling, stability and performance, creating an increased risk of accident or rollover. Before installing any accessory, check state laws and assure that the accessory will not obscure any lights or interfere with proper operation on your vehicle's safety equipment. Consult your owner's manual and the Smittybilt instructions, or additional safety information. Smittybilt products, nor the warnings contained herein, are not a substitute for your safe driving. Don't drink and drive, always use seat belts and don't drive faster than conditions permit

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