Maximize garage space by storing items up and out of the way. This block-and-tackle system allows one person to easily raise and lower items with a single rope. A self-locking pulley grips instantly even if the rope is accidentally released.

**3 Easy Steps**

1. **Secure**
   - Harken organizer
   - 2 Harken micro pulleys
   - 1 single hoisting rope

2. **Lift**
   - 2 black drop ropes: 1 long, 1 short
   - 1 Harken block and tackle
   - 4 washers
   - 2 pigtail lag screws
   - 2 webbing straps with buckles 7’ (2.13 m)

3. **Store**
   - 1 shackle
   - 4 lag bolts 5/16” x 4” (8 x 100 mm)
   - 2 #10 x 21/2” (6 x 63 mm) screws

**Kit Includes**

- Part No. Description
- A 1 Harken organizer
- B 2 Harken micro pulleys
- C 2 #10 x 2 1/2" screws
- D 1 shackle
- E 4 lag bolts 5/16” x 4” (8 x 100 mm)
- F 1 Harken block and tackle
- G 2 black drop ropes: 1 long, 1 short
- H 1 single hoisting rope
- I 2 pigtail lag screws
- J 2 webbing straps with buckles 7’ (2.13 m)
- K 4 washers

**Plan Location of 2-Point Lift System**

Read instructions before starting. Plan ceiling location of mounting board. Position welded screw eye (B) at top of adjoining wall. Distance from organizer (B) on end of board to welded screw eye must be equal or greater than lifting distance. See Fig. 2 and “Install Welded Screw Eye” instructions next page.

**Mount Board to Ceiling**

Draw a centerline the length of a 6’ (1.83 m) 2” x 6” pine mounting board. Use a stud finder to locate ceiling trusses/rafters on which to mount system (follow manufacturer’s instructions). Drill four holes in mounting board as template to mark ceiling. Drill truss/rafters using a 5/32” (4 mm) drill bit. Install board using 5/16” x 4” (8 x 100 mm) lag bolts (K) with flat washers (L). Do not over-tighten.

**Plan Board to Ceiling**

- Max Lifting weight:
  - PART 2-Point Lift System
  - Max 50 lbs (22.7 kg)
  - Max: 150 lbs (68 kg)

**Important Safety Information**

- DO NOT RAISE OR LOWER HOISTER with anyone standing under object. • SECURELY ANCHOR each fastener to a truss/raft.
- DO NOT RAISE OR LOWER HOISTER with anyone standing under object.
- WARNING! Do not screw into laminated rafters. They are not intended to accept fasteners. Consult rafter maker for recommendations.

**Tools**

- Electric/hand drill
- Drill bits: 5/32” (4 mm), 7/32” (6 mm)
- Stud finder
- Pencil
- Stop clock
- Safety glasses, tape measure
- One (1) 2” x 6” x 6’ (50 mm x 152 mm x 1.83 m) grade 2 or better pine board.

**WARNING!** Strictly follow all instructions to avoid an accident, damage to property, personal injury, or death. See www.harken.com/manuals for additional safety information.

**Parts**

- #7807 maximum load: 60 lb (27 kg)
- #7806 maximum load: 100 lb (45 kg)
- #7803 maximum load: 145 lb (66 kg)
- #7802 maximum load: 90 lb (41 kg)
- #7801 maximum load: 60 lb (27 kg)
- #7800 maximum load: 45 lb (20 kg)
Drill 3/32” (2.5 mm) holes and mount organizer using • 5” (127 mm) or more outside the pigtail screw. • On the end of the board toward welded screw eye. Screws (C).

Mark location of two pigtail screws

Install Pigtail Lag Screws on 2 x 6 Board

To gain distance, move welded screw eye laterally. Keep angle at 45 degrees or less. Use a stud finder to find solid wood (follow manufacturer’s instructions). Drill a 7/32” (5.5 mm) hole and

See Fig. 2

Locate welded screw eye (E) in wood top-plate running across centerline and thread in pigtail screws.

Fix Yes

Mounting board

Mounting board

Mounting board

Install Organiser on 2 x 6

Mark organizer (3) location. Install • On the outside of the board/inside welded screw eye • 1/2” (12 mm) to 3/4” (18 mm) off the centerline of the board, on the centerline above pigtail screws. • 5/16” (8 mm) or more outside the piglet screw. Drill 5/32” (0.5 mm) holes and insert screw eye

Adjust black and double lag screw eye

Dissassembly: slide (1) and clip (2) shaped slits with welded screws (3), drill black on steel base lower most shackles pin and secure with ring.

Install Welded Screw Eye

Locate welded screw eye (E) in void top-plated running across top of wall. Distance from welded screw eye (E) to organizer (B) must be equal or greater than lifting distance. To give balance, place welded screw eye (E) up center of ceiling.

With object to be lifted in its normal position directly under system, place to winding strap (A) using a figure 8 loop. See Fig. 4. The flat knots should be close to level to lift object evenly. Make sure they are tied securely and will not come undone.

Figure 1 (View of ceiling from floor)

Figure 2

Vine Rope

Place two 1” micro pulleys (A) on each pigtail lag screw (J). Fix droop ropes (B) through organizer (E). Fix droop rope (B) through pigtail screw eye and through pulley. Make sure rope does not rub on or near pigtail or pigtail screw eye

Pin screw eye in same direction as rope running through pulley. See Fig. 3

Figure 3

A. ATTACH OBJECT

Attach block/tackle system. Place then directly under lifting system and undrape strap assembly.

Tip: Thread one block through rear wheel and frame or rack and bails. Thread other block through front wheel (girtled fries), and around frame and fasten.

B. RAISE OBJECT

Hold to a screw of pull. Pull single hoisting rope (H) straight down

With rope pointed down, left can release it. Repeat until object is at desired height.

Figure 4

WARNING: Hang coiled rope when it will not be subjected to any load. Ropes can easily become tangled and result in falls. Never allow coiled rope out of reach of children. Damage or injury can result if the object is ever dropped from the ceiling or webbing strap knots stop at pulley (A).

For additional security, use two safety 5/16” (8 mm) position welding straps. Securely buckle both ends to pigtail screw eye under object, parallel with winding strap (A) safety ropes before lowering object.

Figure 8 Follow Through Loop

Open:

Rope (8-10) angled through front wheel, behind the fork, around the frame, and through the webbing strap eye. For other objects, thread block through pigtail screw eye and through welder’s connection on the pulley (A), or girtled fries or spur (if one exists). Pull back end of rope. You will hear a click when the buckles lock. Adjust strap as needed to balance load.

Figure 5

Describe Ropes Tensions

Slowly pull rope ends to check if fast enough. Both droop ropes must have equal tension to balance system. To do this, adjust tension by moving knot or adjusting winding strap at block. When tensioned properly you are ready to work.

With object to be lifted directly under the system, undrapen the rope assembly. For items placed side by side through the front wheel, behind the fork, around the frame, and through the webbing strap eye. For other objects, thread block through pigtail screw eye and through welder’s connection on the pulley (A), or girtled fries or spur (if one exists). Pull back end of rope. You will hear a click when the buckles lock. Adjust strap as needed to balance load.

Equalize Ropes Tensions

The system shown in Fig. 5 is not the only option to achieve the desired load balance. For bike use, you will need to use both front wheel and frame. You have the option to use either front wheel or frame. Adjust the angles and balance as necessary.

WARNING: Stop pulling on any object contacts ceiling or winding strap knots stop at pulley (A)

Damage or injury may result from improper operation. If it is faulty, stop hoisting. Allow block to angle up using angle line (F). Make sure object is eased to the maximum, if anything is jamming rope or object.

C. STORE OBJECT

With object in raised position, make sure single hoisting rope (H) is tucked tightly in place with cloth. Do not run the hoisting rope through a cabled cord for storage when system is not in use. Tip: For additional security, use two safety 5/16” (8 mm) position welding straps. Securely buckle both ends to pigtail screw eye under object, parallel with winding strap (A) safety ropes before lowering object.

Figure 9

What is covered – This warranty covers defects in materials or workmanship.

Who is covered – The original purchaser.

For how long – Harken products are warranted for five (5) years from the date of purchase.

WHAT IS NOT COVERED

This warranty does not cover any product that was: improperly installed; inadequately inspected; improperly maintained; used in any application for which it was not intended; used under conditions excessive to the rating or other recommendations published in the Harken catalog; or subjected to misuse, negligence, accident, unauthorized modification or repair, repair, buckles and welding are also not covered. Labor charges are not covered. Separate warranty provisions may be available from vendors on some of the above products. Contact Harken for this warranty information.

CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY. Some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

If you have a problem – If something goes wrong, contact Harken directly. If you call local/your retailer, they might not refer you directly to the proper place.

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