

# HARKEN<sup>®</sup> Hoister

**2-POINT LIFT SYSTEM**  
#7807 Maximum Load:  
60 lbs (27 kg)

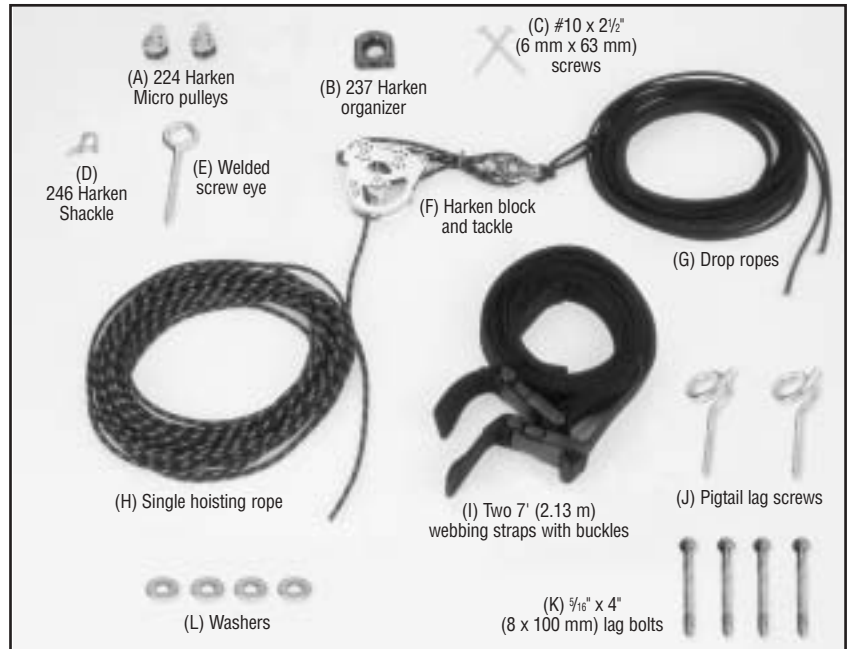
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## INSTRUCTIONS

### Kit Includes:

#### Parts Included:

- 2 224 Harken Micro pulleys.....A
- 1 237 Harken organizer .....B
- 2 #10 x 2½" (6 x 63 mm) screws .....C
- 1 Shackle .....D
- 1 Welded screw eye .....E
- 1 Harken block and tackle .....F
- 2 Drop ropes: 1 long, 1 short .....G
- 1 Single hoisting rope .....H
- 2 7' (2.13 m) webbing straps  
w/buckles .....I
- 2 Pigtail lag screws.....J
- 4 ⅝" x 4" (8 x 100 mm) lag bolts.....K
- 4 Washers.....L



#### Purchase Separately:

- 1 2" x 6" x 6' (50 mm x 152 mm x 1.83 m), grade 2 or better pine board

#### Tools Needed:

- Electric/hand drill
- Drill bits: ⅝" (4 mm), 7/32" (6 mm), ⅝" (8 mm)
- Pencil

Stud finder (available at building supply store)

- Stepladder
- Safety glasses
- Tape measure

### Plan Location of 2-Point Lift System

Read instructions before starting. Plan ceiling location of mounting board. Position welded screw eye (E) at the top of the adjoining wall. The distance from the organizer (B) on the end of the board to the welded screw eye must be equal or greater than the lifting distance. **See Figure 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 (three minimum) ⅝" (8 mm) evenly-spaced clearance holes on board centerline matching truss/rafter locations. Use holes in mounting board as a template to mark ceiling. Drill truss/rafters using a 7/32" (5.5 mm) drill bit. Install board using ⅝" x 4" (8 x 100 mm) lag bolts (K) with flat washers (L). Do not over-tighten.

**Warning: Securely anchor each fastener to a truss/rafter.**

### Install Pigtail Lag Screws on 2 x 6

Mark location of the two pigtail screws (J) on mounting board centerline.

- Pigtail screws can be 1' to 5' apart depending on width of item lifted.
- Position screws minimum of 6" from end of 2 x 6.

Drill two  $\frac{7}{32}$ " (5.5 mm) holes on center, and thread in pigtail screws. **See Figure 1.**



### Install Organizer on 2 x 6

Mark organizer (B) location.

Install:

- On the end of the board toward welded screw eye.
- $\frac{1}{2}$ " (12 mm) to  $\frac{3}{4}$ " (19 mm) off the centerline of the 2 x 6, so lines clear pigtail screws
- 5" (127 mm) or more outside the pigtail screw.

Drill  $\frac{3}{32}$ " (2.5 mm) holes and mount organizer. **See figure 1.**

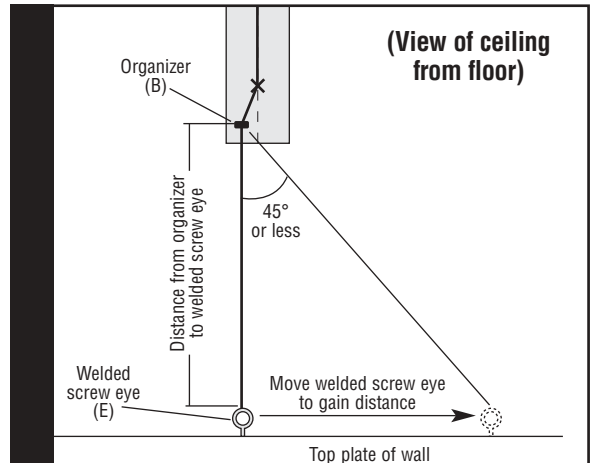
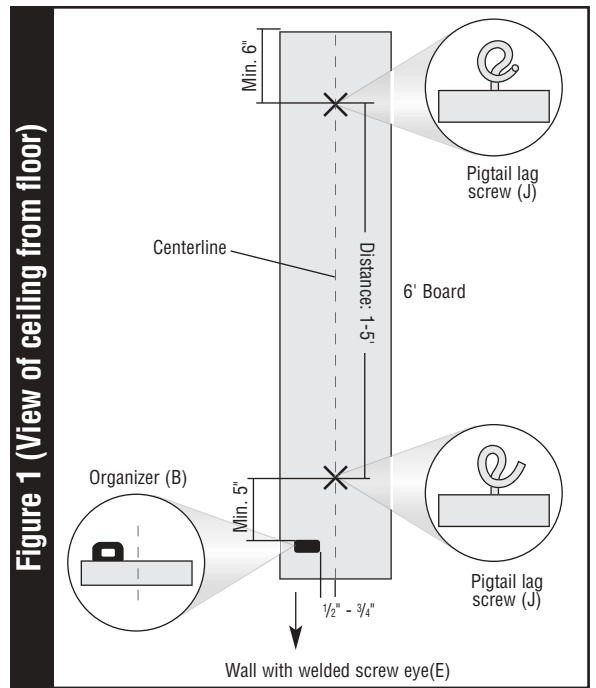
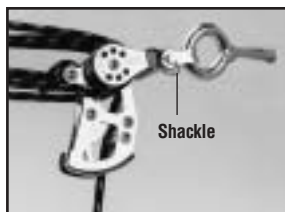


### Install Welded Screw Eye

Locate welded screw eye (E) in the wood top plate running across top of wall. **Distance from welded screw eye to organizer must be equal or greater than lifting distance.** To gain distance, move welded screw eye laterally. Keep the angle at 45 degrees or less. Use a stud finder to find solid wood (follow manufacturer's instructions). Drill a  $\frac{7}{32}$ " (5.5 mm) hole and thread eye into place. **See figure 2.**

### Attach Block and Tackle to Screw Eye

Disassemble shackle (D) and slip "U" shaped strap onto welded screw eye (E). Orient block so cleat faces down, insert shackle pin and secure with ring.



### Weave Rope

Place one Micro pulley (A) on each pigtail lag screw (J). Feed drop ropes (G) through the organizer (B). Feed the short drop rope through the near pulley. Feed the long drop rope through the far pulley. Make sure ropes do not rub on the near pulley or pigtail screw.

**Align screw eyes in same direction as rope running through pulley. See figure 3.**

### Set Up System

Place object to be lifted in its normal position directly under system.

Tie rope to webbing strap (I) using a "figure 8" knot.

**See Figure 4.**

**Tip:** Both knots should be close to level to lift object evenly.

Check knots. **Make sure they are tied securely and will not come undone.**

Place webbing straps around load. Push buckles together to lock. Check by pulling on webbing.

### Equalize Rope Tension

Slowly pull single rope to check if load is level. **Both drop ropes must have equal tension so load remains level.**

To level load, adjust tension by moving the knot or adjusting webbing strap at buckle. When level/balanced you are ready to lift.

### Operate System

**Important: for safety, do not raise or lower load with anyone standing under item.** Pull on single rope to raise load.

When load is at correct height let go of rope—pulley with safety cleat will lock. To lower load, securely hold rope and apply tension while moving rope toward the object you are lowering. **Slowly** let the rope move through safety cleat.



Figure 3

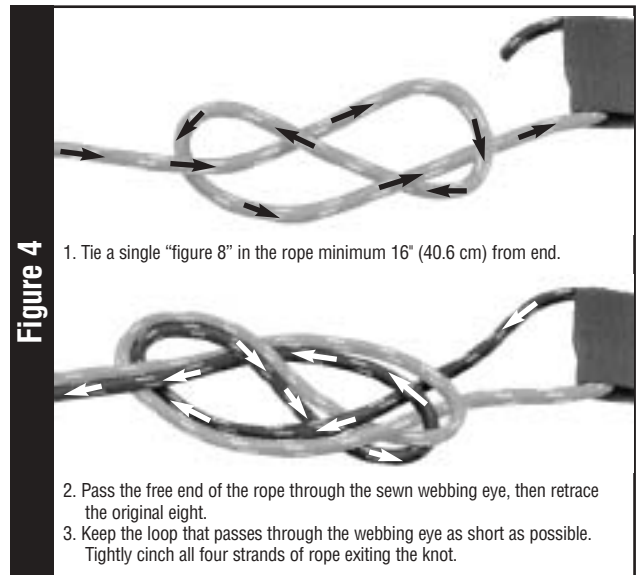
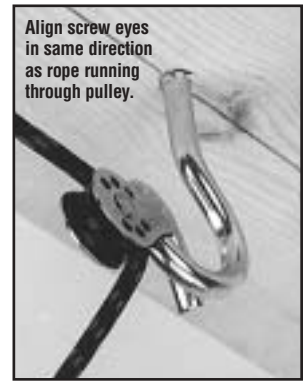


Figure 4

1. Tie a single "figure 8" in the rope minimum 16" (40.6 cm) from end.
2. Pass the free end of the rope through the sewn webbing eye, then retrace the original eight.
3. Keep the loop that passes through the webbing eye as short as possible. Tightly cinch all four strands of rope exiting the knot.

# Go Vertical! Overhead Storage

Raise & Store

Space-Saving Storage

Finally... a safe and simple bike storage system!

- One-person lift using a single control rope
- Even single-point hoisting
- Fail-safe self-locking pulley system
- Easy install; kit includes everything needed

Maximum weight: 45 lb (20 kg)

Self-locking Safety Cleat

Durable Construction

# HARKEN HOISTER STORAGE SOLUTIONS

## GO VERTICAL!

Single rope lifts evenly to safely store your equipment out of the way.

Self-locking pulley system secures and releases with the flick of the wrist

Easy-to-install. All mounting hardware included.

Four sizes to lift 15 to 200 lbs

Secure

Lift

Store

PATENTED FAIL-SAFE LOCK

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