**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.

**WARNING!** This product is not to be used for human suspension. Components may fail causing person to fall, possibly resulting in serious injury or death.

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**SAVE TIME! READ THE ENTIRE MANUAL BEFORE BEGINNING HOISTER INSTALLATION.**

### KIT INCLUDES

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>A</td>
<td>1 welded screw eye</td>
</tr>
<tr>
<td>B</td>
<td>4 pigtail lag screws</td>
</tr>
<tr>
<td>C</td>
<td>1 shackle</td>
</tr>
<tr>
<td>D</td>
<td>4 pulleys</td>
</tr>
<tr>
<td>E</td>
<td>2 webbing straps with buckles (7’ (2.13 m))</td>
</tr>
<tr>
<td>F</td>
<td>1 single black/red hoisting rope</td>
</tr>
<tr>
<td>G</td>
<td>1 block and tackle with cleat (G1) and rope</td>
</tr>
<tr>
<td>H</td>
<td>4 black drop ropes: 2 long, 2 short</td>
</tr>
<tr>
<td>I</td>
<td>4 lag bolts 1/4” x 2 1/2” (6 x 63 mm)</td>
</tr>
<tr>
<td>J</td>
<td>4 washers 1/4” (6 mm)</td>
</tr>
<tr>
<td>K</td>
<td>2 organizer plates</td>
</tr>
<tr>
<td>L</td>
<td>2 organizer pulleys</td>
</tr>
</tbody>
</table>

**PURCHASE SEPARATELY IF NEEDED – See “note” Step 1B, page 6.**

- 1 pine board (riser) (grade 2) 2” x 6” x 7” (50 mm x 152 mm x 180 mm) not used for rafters running sideways

- 2 pine boards (grade 2) 2” x 6” x 6’ (50 mm x 152 mm x 1.83 m)

- 8 lag bolts and washers 5/16” x 4” (8 x 100 mm)

**PURCHASE ADDITIONAL FOR RAFTERS RUNNING SIDEWAYS – See Step 2A, page 7**

- 1 pine board (grade 2) 2” x 4” x 6’ (50 mm x 100 mm x 1.83 m)

- 2 lag bolts and washers 5/16” x 3 1/2” (8 mm x 90 mm)

### TOOLS

- **Drill**
  - 3/32” (4 mm)
  - 7/32” (6 mm)
  - 5/32” (8 mm)
- **Plumb line**
- **Pencil**
- **Stud finder**
- **Stepladder**
- **Safety glasses**
- **Tape measure**
- **Wrench (box end or ratcheting)** 7/16” (11 mm)

---

**IMPORTANT SAFETY INFORMATION**

- **NEVER USE TO LIFT A PERSON.**
- **DISABLE AUTOMATIC GARAGE DOOR OPENER** when installing, raising, or lowering Hoister.
- **READ ENTIRE MANUAL CAREFULLY BEFORE starting installation. It will save you time.**
  - **DO NOT UNTIE ANYropes**
    - System comes ready to install. Leave F, G, and H together.
  - **DO NOT RAISE OR LOWER HOISTER** with anyone standing under object.

---

Harken, Inc. • N15W24983 Bluemound Rd, Pewaukee, WI 53072-4974 • Tel: 262-691-3320 • Fax: 262-701-5780 • Email: hoister@hoister.com • Web: www.hoister.com
BEFORE STARTING INSTALLATION
Determine the rafter direction and follow the instructions for rafters running: FRONT-TO-BACK or SIDEWAYS

RAFTERS RUNNING FRONT-TO-BACK

RAFTERS RUNNING SIDEWAYS
PART 1: ASSEMBLY FOR RAFTERS RUNNING FRONT-TO-BACK

STEP 1: Determine Hoister location
Page 5 - 6

STEP 2: Install mounting boards
Page 7

STEP 3: Install pigtail lag screws
Page 8

STEP 4: Install rope organizer
Page 9

STEP 5: Assemble Hoister system
Page 9

PART 2: ASSEMBLY FOR RAFTERS RUNNING SIDEWAYS

STEP 1: Determine Hoister location
Page 11 - 12

STEP 2: Install mounting boards
Page 13

STEP 3: Install pigtail lag screws
Page 13 - 14

STEP 4: Install rope organizer
Page 14

STEP 5: Assemble Hoister system
Page 15

PART 3: FOR ALL ASSEMBLIES

STEP 6: Assemble Hoister systems continued
Page 16 - 17

STEP 7: Operating Hoister systems
Page 18

Appendix, maintenance, and warranty
Page 19
PART 1: ASSEMBLY FOR RAFTERS RUNNING FRONT-TO-BACK

INSTALLATION OVERVIEW

**STEP 1:** Determine Hoister location  
Page 5 - 6

**STEP 2:** Install mounting boards  
Page 7

**STEP 3:** Install pigtail lag screws  
Page 8

**STEP 4:** Install rope organizer  
Page 9

**STEP 5:** Assemble Hoister system  
Page 9
A. PLAN INSTALLATION

Pull car into garage with SUP on car rack.

Measure length of SUP. Position Hoister so garage door can open with SUP lowered.

STORAGE OPTIONS

Measure height of SUP. Make sure SUP can be stored above or below the open garage door.

OPTION 1. Above garage door: Make sure there is enough clearance to lift and store SUP above open garage door.

OPTION 2. Below garage door: Use if not enough clearance for above garage door storage (Option 1). SUP has clearance to lift and store below open garage door.

DIAGRAM 1. Plan to position SUP above car with clearance to open garage door. If Hoister is mounted too close to garage door, there may not be clearance to open door. Mounted too far forward, SUP may not balance or lower onto car.
B. PLAN LOCATION OF MOUNTING BOARDS

Mounting boards are used to position Hoister directly above SUP to be lifted.

**WARNING!** Do not screw into laminated rafters. They are not intended to accept fasteners. Consult rafter maker for recommendations. Screwing into laminated rafters may considerably weaken system, causing load to fall and cause an accident.

**Note:** Mounting boards may not be necessary for installation in ceiling with exposed rafters. In ceilings with exposed rafters, system can be installed on rafters. Position Hoister directly above SUP to be lifted. If installing without mounting boards, go to Step 3 (page 8).

### DISTANCE BETWEEN MOUNTING BOARDS

Distance between mounting boards should be 35% of the object’s length.

**Exception:** Distance between mounting boards for long, lightweight objects will be less than 35% of the object’s length.

Calculate distance between mounting boards using formula or chart below.

\[
\text{Object length} \times 0.35 = \text{Mounting distance}
\]

**Tip:** The distance does not have to be exactly 35%. Greater distance is okay and distance for long, lightweight objects can be less as stated above.

### LOCATE CEILING MOUNTING BOARD POSITION

**DIAGRAM 2.** Center SUP under mounting points. Position mounting boards so lifted SUP is balanced.

**DIAGRAM 3.** Distance of mounting boards from front wall is important, as it affects the position of the welded screw eye in Step 5A (page 9).
STEP 2: INSTALL MOUNTING BOARDS; RAFTERS RUNNING FRONT-TO-BACK

A. DRILL CEILING RAFTER ATTACHMENT POINTS

LOCATE CEILING RAFTERS
Mounting boards must attach to ceiling rafters (Diagram 4). On finished ceilings, locate rafters using stud finder. Follow manufacturer’s instructions. Mark center of ceiling rafters. Drill $\frac{7}{32}$" (5.5 mm) holes in a straight line square to the rafters. See Diagram 4 below.

Always wear safety glasses.

B. DRILL MOUNTING BOARD

Measure center-to-center distance between $\frac{7}{32}$" (5.5 mm) rafter holes. Mark distance on mounting boards. Mark drill points in the center of board. Drill $\frac{5}{16}$" (8 mm) holes completely through the mounting boards. See Diagram 4A below.

C. ATTACH MOUNTING BOARDS TO CEILING

Attach mounting boards using $\frac{5}{16}$" (8 mm) lag bolts and washers (not included).

Do not overtighten.

DIAGRAM 4. Mark center-to-center distance between rafters on mounting boards. Attach mounting boards to rafters.
STEP 3: INSTALL PIGTAIL LAG SCREWS; RAFTERS RUNNING FRONT-TO-BACK

A. DETERMINE PIGTAIL LAG SCREW (B) LOCATION

PULL VEHICLE INTO GARAGE

Pull vehicle into garage with SUP on car rack. Disconnect automatic garage door.

MARK LOCATION POINTS

Use plumb line to locate four lifting points on mounting boards above vehicle.

DIAGRAM 5. Mark SUP width on mounting boards.

DIAGRAM 6. Add 2" (50 mm) outside each mark. Drill a 7/32" (5.5 mm) hole at each outside point. Always wear safety glasses.

DRILL 2 HOLES ON EACH MOUNTING BOARD

DIAGRAM 7. Install a pigtail lag screw (B) in each hole. Threads should disappear into mounting board.

WARNING! Do not overtighten pigtail lag screw past top thread. This can weaken fastener hold which can considerably weaken system, causing load to fall and cause an accident.

INSTALL PIGTAIL LAG SCREWS

- Mark SUP width on mounting boards.
- Pull vehicle into garage with SUP on car rack. Disconnect automatic garage door.
- Use plumb line to locate four lifting points on mounting boards above vehicle.
- Add 2" (50 mm) outside each mark. Drill a 7/32" (5.5 mm) hole at each outside point. Always wear safety glasses.
- Install a pigtail lag screw (B) in each hole. Threads should disappear into mounting board.
- WARNING! Do not overtighten pigtail lag screw past top thread. This can weaken fastener hold which can considerably weaken system, causing load to fall and cause an accident.
**STEP 4: INSTALL ROPE ORGANIZER; RAFTERS RUNNING FRONT-TO-BACK**

**A. MOUNT RISER BOARD AND DRILL HOLES**

**IMPORTANT! Use smaller drill bit in this step.**

Mount 2" x 6" x 7' (50 mm x 152 mm x 180 mm) riser board on front mounting board centered between the two pigtail lag screws (B). Drill 5/32" (4 mm) holes. **Always wear safety glasses.** Attach riser boards using two 1/4" (6 mm) lag bolts (I) and washers (J) (included). Do not overtighten.

**DIAGRAM 8.** Hold rope organizer plate (K) on riser board near the side toward the front wall. Use plate as template to mark center holes. Drill two 5/32" (4 mm) holes.

**STEP 5: ASSEMBLE HOISTER SYSTEM; RAFTERS RUNNING FRONT-TO-BACK**

**A. INSTALL WELDED SCREW EYE (A)**

**PLACEMENT ON FRONT WALL**

**DIAGRAM 11.** Distance 2 must be equal or somewhat greater than distance 3. See chart below. For a larger view, see Diagram 3 (page 6).

**MAXIMIZING LOWERING OF SUP**

You may want to lower SUP to floor or onto sawhorses. If distance 2 is much greater than 3, the distance SUP can be lowered will be limited by length of rope supplied.

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<th>If distance 2 is</th>
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<td>3</td>
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When distance 2 is much greater than 3, purchase longer rope for drop ropes (H) to maximize distance SUP can be lowered.

**B. ASSEMBLE ROPE ORGANIZER**

**DIAGRAM 10.** Assemble rope organizer using plate (K) and pulleys (L). Fasten to mounting board with lag bolts (I) and washers (J).

**IMPORTANT! Do not overtighten bolts. This can keep rope organizer pulleys (L) from turning properly.**

**DIAGRAM 12.** If distance to front wall is less than distance needed to lift SUP, move the welded screw eye (A) along the front wall until distance 2 is equal to distance 3 (see Diagram 11).

**VIEWED FROM BELOW**

Drill a 7/32" (5.5 mm) hole into top plate of garage for mounting welded screw eye. **Always wear safety glasses.** Screw welded screw eye into top plate until threads just disappear into top plate. Do not overtighten. See procedure and warnings for Install Pigtail Lag Screws.

**LEADING BLOCK AND TACKLE TO SIDE WALL**

If distance to front wall is still too short, consider running block and tackle to the side of to the SUP instead of lengthwise.

SEE APPENDIX—PAGE 19.
PART 2: ASSEMBLY FOR RAFTERS RUNNING SIDEWAYS
INSTALLATION OVERVIEW

STEP 1: Determine Hoister location  Page 11 - 12
STEP 2: Install mounting boards  Page 13
STEP 3: Install pigtail lag screws  Page 13 - 14
STEP 4: Install rope organizer  Page 14
STEP 5: Assemble Hoister system  Page 15

Alternate position for rafters that run sideways.

VIEWED FROM BELOW

Rafter center-to-center distance

Mounting boards

2" X 4" (50 mm x 100 mm)

for mounting organizer
no riser board used

2" x 6" (50 mm x 152 mm)

for mounting organizer

Rope organizer

Organizer

Front wall

WEBBING STRAPS (E)

PULLIES (L)

PLATES (K)

LAG BOLTS (I)

WASHERS (J)

Shackle (C)

Cleat (G1)

Garage door

Long black drop ropes (H)

Rope organizer on 2" X 4" x 6'
(50 mm x 100 mm x 1.83 m) board

Pulleys (L) Plates (K) Lag bolts (I) Washers (J)

Rope organizer on 2" x 4" x 6'
(50 mm x 100 mm x 1.83 m) board

Pigtail lag screw (B) with pulley (D)

Welded screw eye (A)

Block and tackle (G)

Black and tackle (G)

Shackle (C)

Single black/red hoisting rope (F)

2" X 6" (50 mm x 152 mm)

for mounting organizer no riser board used

Front wall

2" x 6" (50 mm x 152 mm x 1.83 m) mounting boards

Webbing straps (E)

Short black drop ropes (H)

Garage door

Long black drop ropes (H)
A. PLAN INSTALLATION
Pull car into garage with SUP on car rack.

Measure length of SUP. Plan to position Hoister so garage door can open with object lowered.

STORAGE OPTIONS
Measure height of object. Make sure SUP can be stored above or below the open garage door.

OPTION 1. Above garage door: Make sure there is enough clearance to lift and store SUP above open garage door.

OPTION 2. Below garage door: Use if not enough clearance for above garage door storage (Option 1). SUP has clearance to lift and store below open garage door.

DIAGRAM 13. Plan to position SUP above car with clearance to open garage door. If Hoister is mounted too close to garage door, there may not be clearance to open door. Mounted too far forward, SUP may not balance or lower onto car.
B. PLAN LOCATION OF MOUNTING BOARDS

Mounting boards are used to position Hoister directly above object to be lifted.

7806 Hoister (200 lb/91 kg system) requires mounting boards to span minimum three rafters.

WARNING! Do not screw into laminated rafters. They are not intended to accept fasteners. Consult rafter maker for recommendations. Screwing into laminated rafters may considerably weaken system, causing load to fall and cause an accident.

Note: Mounting boards may not be necessary for installation in ceiling with exposed rafters. In ceilings with exposed rafters, system can be installed on rafters. Position Hoister directly above object to be lifted. If installing without mounting boards, go to Step 3 (page 13).

LENGTH OF 2" X 6" MOUNTING BOARDS

Length of mounting boards should be at least 35% of the object’s length.

Exception: Length of mounting boards for long, lightweight objects will be less than 35% of the object’s length.

Calculate length of mounting boards using formula or chart below.

\[
\text{Object length} \times .35 = \text{Length of mounting board} + 8" (200 \text{ mm})
\]

Tip: The distance does not have to be exactly 35%. Greater distance is okay and distance for long, lightweight objects can be less as stated above.

LOCATE CEILING MOUNTING BOARD POSITION

Plan location of mounting boards and welded screw eye.

DIAGRAM 14. Center SUP under mounting points. Position mounting boards so lifted object is balanced.

DIAGRAM 15. Check to make sure 2" x 6" boards are long enough. Distance of 2" x 4" from front wall is important, as it affects the position of the welded screw eye in Step 5A (page 15).
STEP 2: INSTALL MOUNTING BOARDS; RAFTERS RUNNING SIDEWAYS

A. DRILL CEILING RAFTER ATTACHMENT POINTS

LOCATE AND DRILL CEILING RAFTERS

Mounting boards must attach to ceiling rafters (see Diagram 16). On finished ceilings, locate rafters using stud finder. Follow manufacturer’s instructions. Mark center of ceiling rafters. Drill 7/32” (5.5 mm) holes in a straight line square to the rafters. Always wear safety glasses. See Diagram 4 below.

Diagram 16. Attach board for mounting organizer using 5/16” (8 mm) 3 1/2” (90 mm) lag bolts and washers (not included). See Step 3A to determine distance between mounting boards.

B. DRILL MOUNTING BOARD

Measure center-to-center distance between 7/32” (5.5 mm) rafter holes. Mark distance on mounting boards. Mark drill points in the center of each board. Drill 5/16” (8 mm) holes completely through the mounting boards.

C. ATTACH MOUNTING BOARDS TO CEILING

Attach mounting boards using 5/16” x 4” (8 mm x 10 mm) lag bolts and washers (not included). Do not overtighten.

D. ATTACH 2” X 4” TO MOUNTING BOARDS

Hold 2” x 4” up to ends of mounting boards and mark screw location on each side. Lower and drill 5/16” (8 mm) holes. Hold 2” x 4” in place and mark holes in ends of mounting boards. Leave room for pigtail lag screws shown in Diagram 17. Drill a 7/32” (5.5 mm) hole in the end of each mounting board. Attach 2” x 4” mounting boards using 5/16” x 3 1/2” (8 mm x 90 mm) lag bolts and washers (not included). Do not overtighten.

STEP 3: INSTALL PIGTAIL LAG SCREWS; RAFTERS RUNNING SIDEWAYS

A. DETERMINE PIGTAIL LAG SCREW (B) LOCATION

PULL VEHICLE INTO GARAGE

Pull vehicle into garage with object on car rack. Disconnect automatic garage door.

MARK LOCATION POINTS

Use plumb line to locate four lifting points on mounting boards above vehicle.
STEP 3 CONTINUED: INSTALL PIGTAIL LAG SCREWS; RAFTERS RUNNING SIDEWAYS

**DIAGRAM 17.** Drill pigtail lag screw holes on 2" x 6" (50 mm x 152 mm) as shown.

**WARNING!** Do not overtighten pigtail lag screw past top thread. This can weaken fastener hold which can considerably weaken system, causing load to fall and cause an accident.

STEP 4: INSTALL ROPE ORGANIZER

**A. DRILL HOLES FOR ORGANIZER**

**IMPORTANT!** Use smaller drill bit in this step.

Use rope organizer plate (K) as a template to mark holes on 2" x 4". See Diagram 17. Drill 5/32" (4 mm) holes. **Always wear safety glasses.**

**B. ASSEMBLE ROPE ORGANIZER**

**DIAGRAM 19.** Assemble rope organizer as shown in Diagram 17 using plate (K) and pulleys (L). Fasten to 2" x 4" (50 mm x 100 mm) with lag bolts (I) and washers (J).

Do not use riser board.

**IMPORTANT!** Do not overtighten bolts. This can keep rope organizer pulleys (L) from turning properly.
A. INSTALL WELDED SCREW EYE (A)

PLACEMENT ON FRONT WALL

DIAGRAM 20. Distance 2 must be equal or somewhat greater than distance 3. See chart below. For a larger view, see Diagram 15 (page 12).

MAXIMIZING LOWERING OF SUP

You may want to lower object to floor or onto sawhorses. If distance 2 is much greater than 3, the distance SUP can be lowered will be limited by length of supplied rope.

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<td>7</td>
</tr>
</tbody>
</table>

When distance 2 is much greater than 3, purchase longer rope for drop ropes (H) to maximize distance SUP can be lowered.

Drill a 7/32" (5.5 mm) hole into top plate of garage for mounting welded screw eye. Always wear safety glasses. Screw welded screw eye into top plate until threads just disappear into top plate. Do not overtighten. See procedure and warnings for Install Pigtail Lag Screws.

LEADING BLOCK AND TACKLE TO SIDE WALL

If distance to front wall is still too short, consider running block and tackle to the side of the SUP instead of lengthwise.

SEE APPENDIX—PAGE 19.
**PART 3: FOR ALL ASSEMBLIES**

**STEP 6: ASSEMBLE HOISTER SYSTEM FOR ALL ASSEMBLIES**

---

**B. ATTACH PULLEYS**

Place one pulley (D) on each pigtail lag screw (B).

---

**ATTACH BLOCK AND TACKLE (G)**

Attach block and tackle system (G) to welded screw eye (A) with shackle (C). Remove ring from shackle like a key ring. Put pin through top of cleat (G1). Put ring back on to secure shackle (C).

---

**INSTALL WELDED SCREW EYE (A) ON FRONT WALL**

Use stud finder to locate solid wood of top plate. Drill \( \frac{7}{32} \) \((5.5 \text{ mm})\) hole. Screw welded screw eye (A) into top plate of front wall (near top of ceiling).

---

**DIAGRAM 22. Avoid installing welded screw eye above tall shelves. Rope must point down to lock.**

**DIAGRAM 23. Top plate of front wall.**

**DIAGRAM 24. Single black/red hoisting rope must face down.**

*NOTE: Appearance of cleat (G1) varies by system size. Refer to system part number for specific block and tackle cleat.*
**C. INSTALL ROPE**

**VIEWED FROM BELOW**

DIAGRAM 25. Put all four black drop ropes through organizer.

- Put two shorter black drop ropes through pulleys (D) on mounting board with rope organizer.
- Put two longer black drop ropes through pulleys (D) on remaining mounting board.

**D. ATTACH STRAPS TO ROPE**

**TIE ROPE TO WEBBING STRAPS**

Keep knot as close to webbing strap (E) eye as possible.

DIAGRAM 27. Tie a black drop rope to each webbing strap (E) using a figure-eight knot. Pass free end of rope through the sewn webbing strap eye.

**POSITION WEBBING STRAPS**

Place object in position under system. Place webbing straps (E) under SUP to be lifted. Push buckles together to lock.

**FRONT VIEW**

Tie knots below top of SUP so load can be lifted to ceiling. Adjust strap length in buckle as needed.

**E. ADJUSTING LIFTING SYSTEM**

**ALIGN SCREW EYES**

DIAGRAM 29. Align pigtail lag screws in direction of rope running through pulley.

**LEVEL SUP**

All webbing straps and ropes must have equal tension to keep SUP level. Check by slowly pulling the black/red hoisting rope (F).

To level SUP, adjust tension by moving knot or adjusting webbing strap at buckle.
**STEP 7: OPERATING HOISTER SYSTEM FOR ALL ASSEMBLIES**

**A. RAISE SUP**

Hoist in a series of pulls. Pull single black/red hoisting rope (F) straight down.

**WARNING!** Do not use this product for human suspension. Components can fail causing person to fall, possibly resulting in serious injury or death.

**B. STORE SUP**

With object in raised position, make sure single black/red hoisting rope (F) is securely locked in cleat with rope pointed down (Diagram 21). Coil loose rope end.

**WARNING!** Hang coiled rope where it will not accidentally snag on persons or vehicle. Keep coiled rope out of reach of children. Damage or injury can result if rope is angled away from wall with some tension; the object can come down very quickly and cause an accident.

**Tip:** For additional security, use two 5/16” (8 mm) polyester safety ropes. Securely tie ends to pigtail lag screws under object, parallel with webbing straps (E). Remove safety ropes before lowering object.

**C. LOWER SUP**

Securely grip rope, apply tension, and angle it away from front wall. Bring arm up to let rope out and then back toward the wall to lock the rope. Repeat until SUP is at desired height.

**WARNING!** When operating system, make sure area below object is clear of persons. If object comes down too quickly, this can cause an accident.

**Tip:** Use gloves to protect hands.

**CAUTION!** Avoid injury, do not let rope slip through hands. Angle rope to wall to lock rope.

**WARNING!** Disable garage door opener when installing, raising, or lowering the Hoister. Do not raise or lower with anyone standing under object. Keep area below Hoister clear. If the load falls it can cause an accident.

**Diagram 30.** Locked (left): Single black/red hoisting rope (F) pointed straight down locks cleat. Open (right): Angled rope opens cleat.

**Warning!** Stop pulling as soon as object contacts ceiling, or webbing strap knots stop at pulley (D). Damage or injury can result from forcing the system. If in doubt, stop hoisting, allow cleat to lock by angling rope down. Stand back to see if object is raised to the maximum, or if something is jamming rope or object.
**APPENDIX**

**BLOCK AND TACKLE RUNNING TO SIDE WALL**

**Rafters running front-to-back**
Lead block and tackle at 90 degrees to a conventional direction.

Mount pigtail lag screws to 2” X 6” (50 mm x 152 mm) mounting boards similar to Diagram 16 (page 13), except block and tackle goes to side wall of garage. Use a 2” X 4” (50 mm x 100 mm) as shown to mount the organizer.

**Rafters running sideways**

Use 2” X 6” (50 mm x 152 mm) mounting boards. Mount the organizer on a 2” X 6” X 7” (50 mm x 152 mm x 180 mm) riser board.

**MAINTENANCE**

Inspect rope (H and F), knots, and straps (E) regularly for signs of chafe, wearing, or UV damage. If you are thinking of replacing them, please contact the manufacturer. Replace immediately. Inspect knots for signs of slipping. When attaching top, inspect webbing strap buckles (E) to make sure spring clip functions properly. Replace rope and hardware with Harken parts only.

**WARRANTY**

**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.

After the end of any specific warranty period noted above, HARKEN MAKES NO EXPRESS OR IMPLIED WARRANTIES OF ANY KIND WITH RESPECT TO THE PRODUCTS, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states, or if you live outside the U.S., some countries, do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

**What is not covered** – This warranty does not cover any product that was: improperly installed; inadequately inspected after installation; improperly maintained; used in any application for which it was not intended; used under load conditions exceeding the rating or other recommendations published in the Harken catalog; or subject to misuse, negligence, accident, or unauthorized modification or repair. Ropes, buckles and webbing 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 or limitation of incidental damages, so the above limitation or exclusion may not apply to you.

**How to get service** – If something goes wrong, contact Harken directly or your local Harken dealer to arrange for warranty assistance. Your dealer has Harken warranty return guidelines that provide you with exact return procedures, depending on the product involved. We will need, in writing, your name, address, phone number, date of purchase, product involved, application, an explanation of the defect, and conditions under which the product was used. We are fair and we do care when Harken products do not perform.