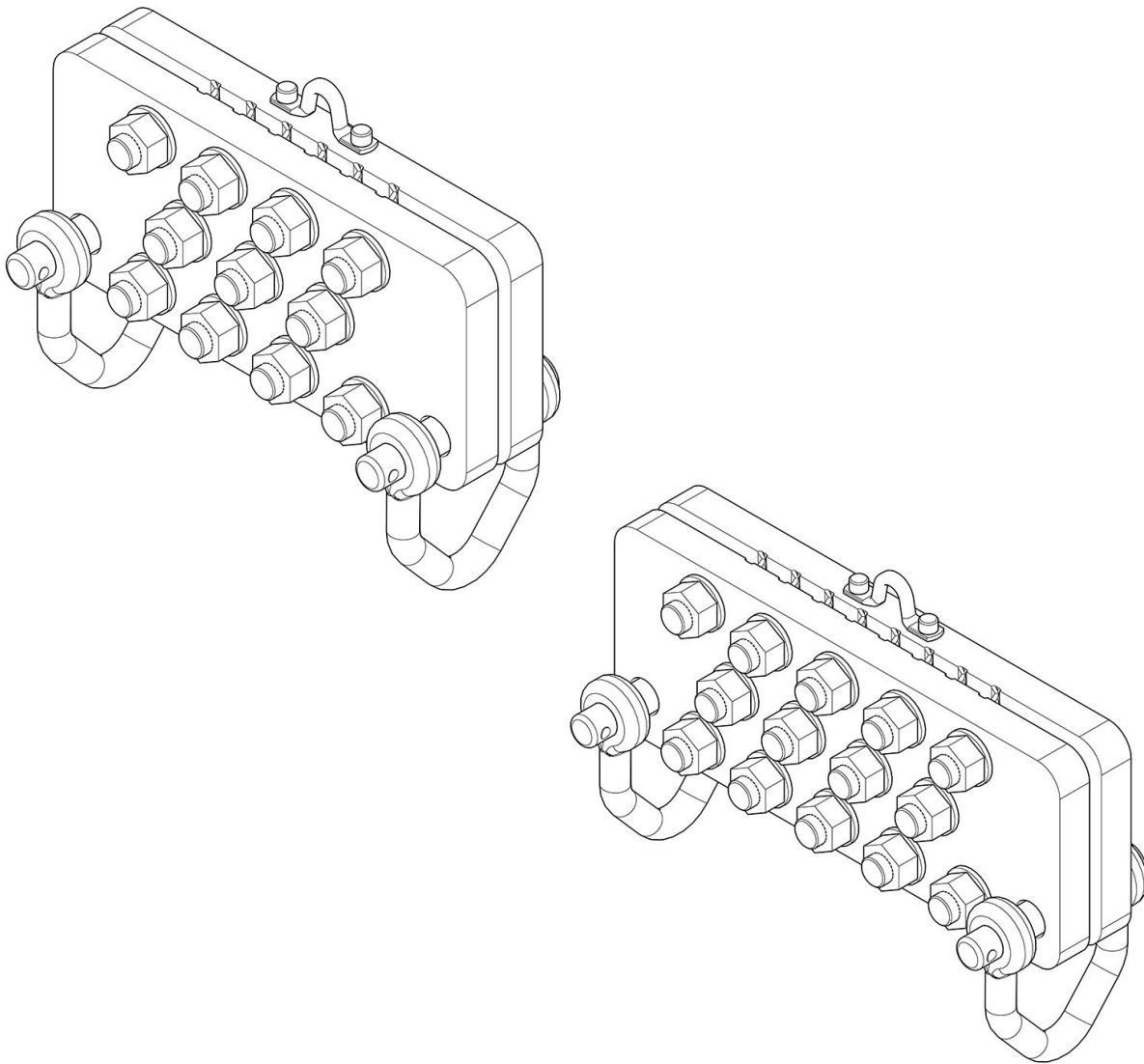


ALUMINUM ROPE SHORTENING CLAMP

Part No. 60-1005X, 60-1006X



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NOTICE

GENERAL WARNINGS

The equipment covered in this manual should only be installed, used, and serviced by qualified personnel trained in proper work and safety procedures. This manual is intended to assist such trained individuals in the installation and use of this equipment and is not intended as a substitute for proper training and experience.

This document or any other information regarding this equipment is not intended to cover all of the possible situations which may be encountered while using the equipment described herein. Should specific situations arise which are not covered by the information provided, or should the user desire further details, the specifics should be directed to Wurtec, Inc.

Note: In the effort of continuous product improvement, Wurtec, Inc. reserves the right to modify the design and specifications of this product at any time without notice.

WARNING

Failure to comply with the following guidelines can result in death, serious injury, or damage to equipment:

- DO NOT use for man riding.
- DO NOT use with non-steel ropes. ONLY use the correct rope size.
- Clamps should be used with wire rope of the specified size. See Specifications for details.
- DO NOT use with rope capacities greater than the capacity of the clamp in use.
- Inspect hardware before use. After each use, check for excessive wear. It is highly recommended to replace hardware after multiple different uses.
- Ensure proper fasteners are used. Bolts must be torqued to spec. See Specifications table for details.
- Never stand under or in the path of the load.
- To prevent the cable from slipping, be sure the rope shortening clamp is positioned with serrated ridges on each rope. Check the grooves of the clamp for wear before each use. Horizontal grooves **MUST** be present. ONLY use with ropes that are aligned with all the grooves of the clamp. Failure to do so can result in slippage.

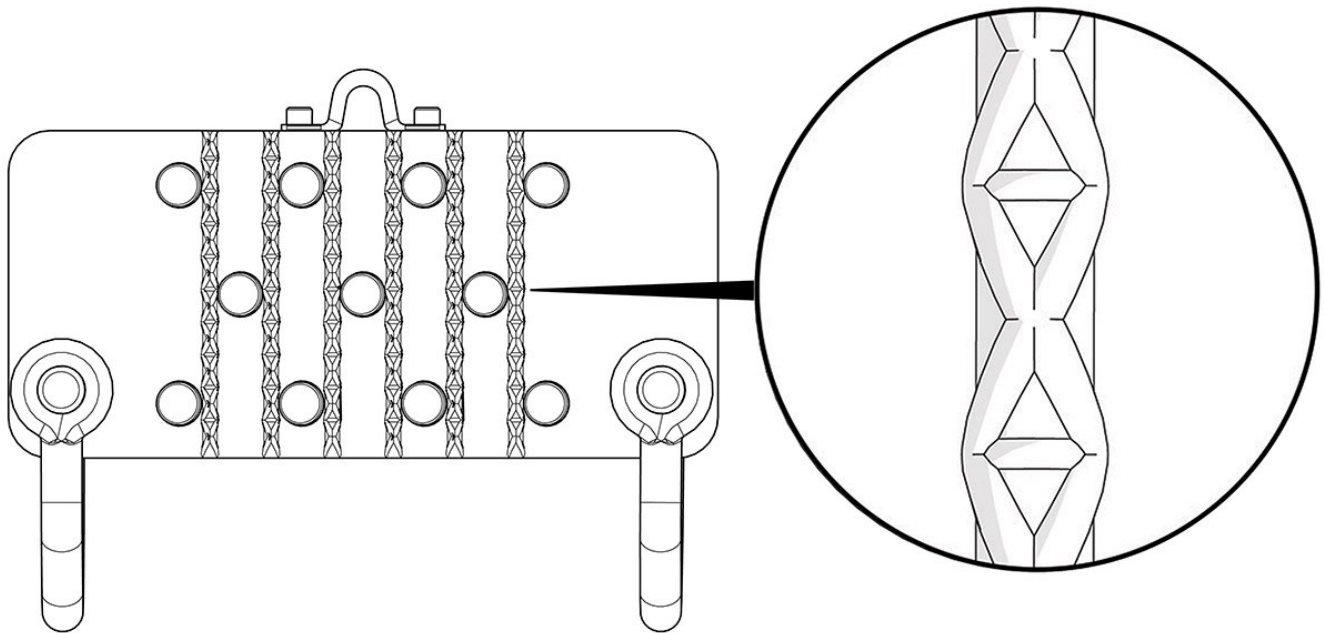
EQUIPMENT DESCRIPTION & INTENDED USE

The aluminum rope shortening clamp is a lightweight alternative to traditional steel rope clamps. The shortening clamp is used to create slack in the wire ropes at the hitch point by hoisting between the clamp and the hitch point. This allows technicians to change the tension of the ropes and shorten them as necessary.

Standard models vary from clamping 5/16" rope to 7/8" rope.

FEATURES & FUNCTIONS

The aluminum rope shortening clamp securely grabs (6 or 8) ropes. Ropes resist slipping through the clamp due to the cross spiral ridges machined into the grooves.



***NOTE:** Before aligning the ropes, check the grooves to make sure the horizontal lines are present. If the lines are not present, the clamp will need replaced.

SPECIFICATIONS

This table defines the number of the ropes, the rope size, and capacity of each aluminum rope shortening clamp.

Part No.	Number of Ropes	Rope Size (inches)	Rope Size (mm)	Capacity (lbs - kg)	Torque (ft - lbs) - Nm
60-10059515	6	5/16	7-8	8000 - 3628	100 - 136
60-10059554	6	3/8	9-10	8000 - 3628	100 - 136
60-10059605	6	7/16	11	8000 - 3628	100 - 136
60-10057059	6	1/2 - 9/16	12-14	8000 - 3628	100 - 136
60-10059610	6	5/8 - 11/16	15-17	8000 - 3628	100 - 136
60-10059623	6	3/4	18-20	12000 - 5443	100 - 136
60-10059626	6	7/8	21-22	12000 - 5443	100 - 136
60-10069053	8	5/16	7-8	13000 - 5896	100 - 136
60-10066453	8	3/8	9-10	13000 - 5896	100 - 136
60-10069056	8	7/16	11	13000 - 5896	100 - 136
60-10069059	8	1/2-9/16	12-14	13000 - 5896	100 - 136
60-10069062	8	15/8-11/16	15-17	13000 - 5896	100 - 136
60-10069065	8	3/4	18-20	16000 - 7257	100 - 136
60-10069071	8	7/8	21-22	16000 - 7257	100 - 136

INSTALLATION / ASSEMBLY TOOLS REQUIRED

- Torque Wrench with M30 Socket
- (2) Come-Alongs or Ratcheting Chain Hoists
- Chains or Web Slings (rated for application)
- Haven's Grip (optional)
- Small Wire Rope (optional)

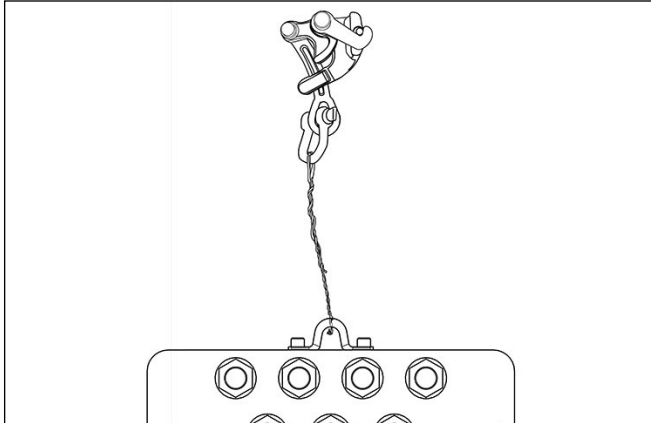
PERSONAL PROTECTIVE EQUIPMENT

The following PPE is recommended when using the aluminum rope shortening clamp:

- Safety glasses
- Hard hat
- Abrasion-resistant gloves
- Boots with steel toe and soles

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INSTALLATION INSTRUCTIONS

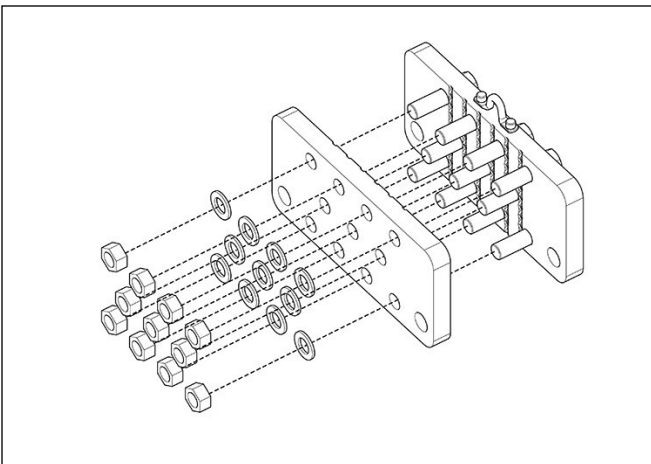


Step 1: Hanging the Clamp Before Installation

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*NOTE: This step is optional.

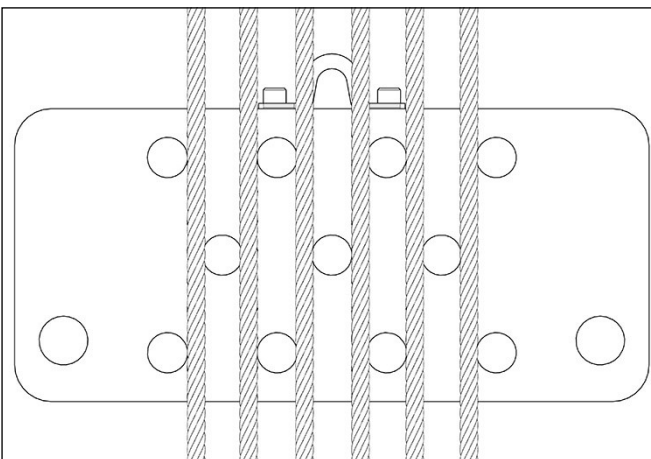
- Loop a small wire rope around the eye bolt of the shortening clamp and secure it. Attach the other end of the small wire rope to a Haven's grip (#16-311).
- Fasten the Haven's grip to the wire rope with the shortening clamp hanging down. This simplifies the installation process.



Step 2: Removing the Hardware

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- Remove the flat washers and hex nuts from the front of the shortening clamp.
- Remove the front rope plate.



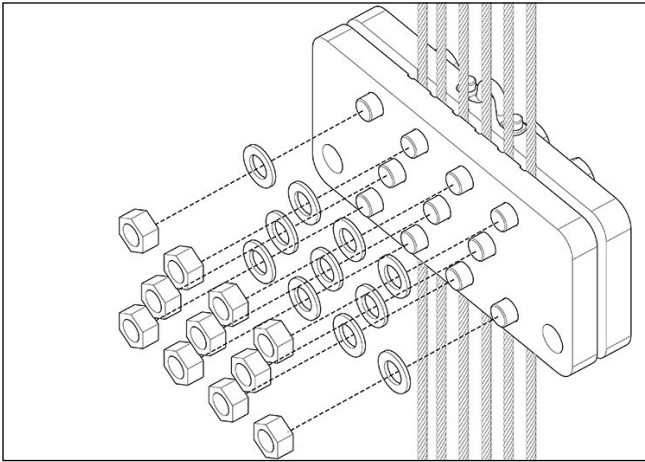
Step 3: Aligning the Ropes

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- Before aligning the ropes, check the grooves to make sure the horizontal lines are present. If the lines are not present, the clamp will need replaced.
- Align the ropes in the six grooves provided.

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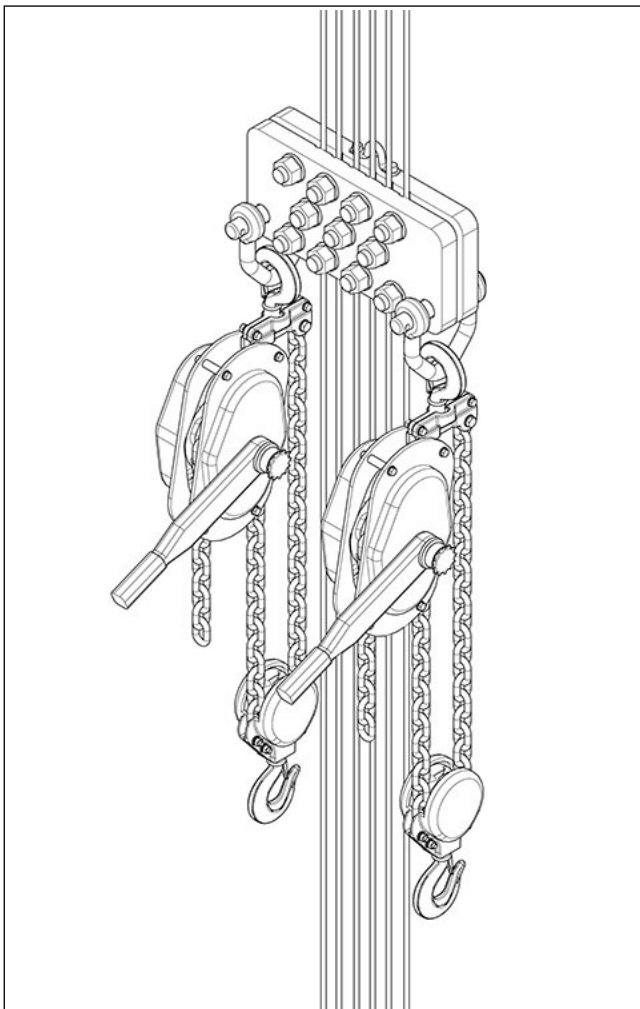
INSTALLATION INSTRUCTIONS



Step 4: Securing the Plate

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- Attach the front rope plate over the ropes.
- Add the flat washers and hex nuts.
- Using a torque wrench with an M20 socket, torque the bolts to 100 ft/lbs (136 N-m).
- If applicable, remove Haven's grip and small wire rope.



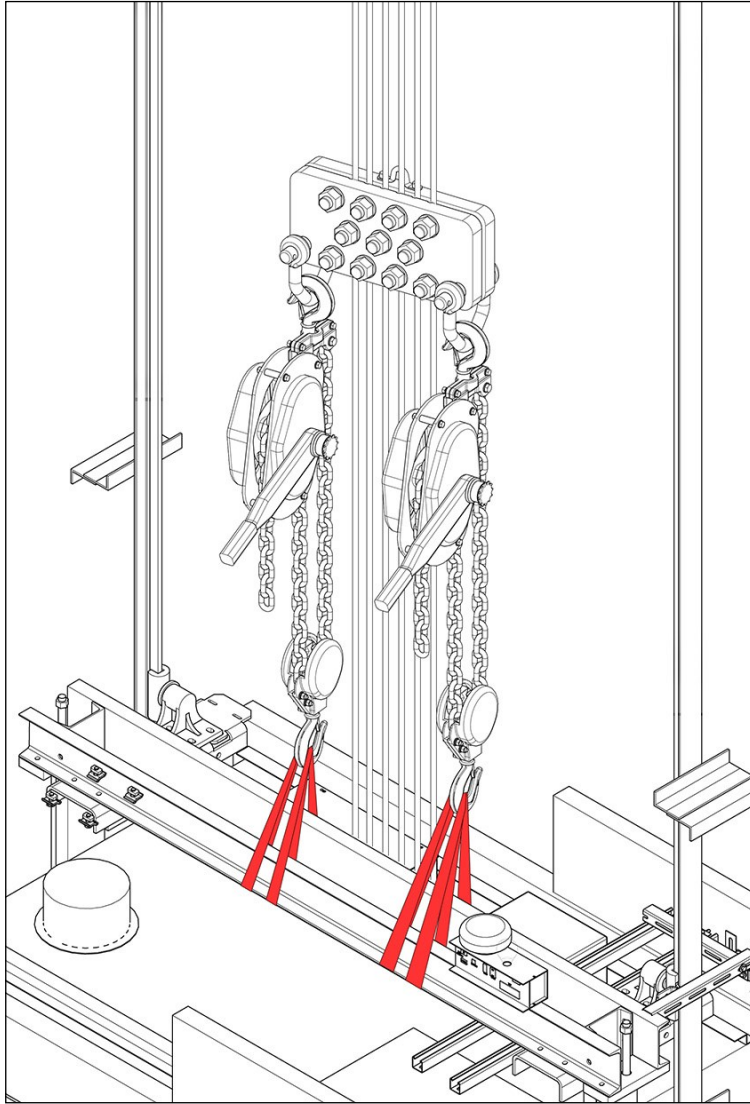
Step 5: Attaching the Chain Hoists

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- Secure the chain hoists to each shackle on the clamp.

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INSTALLATION INSTRUCTIONS



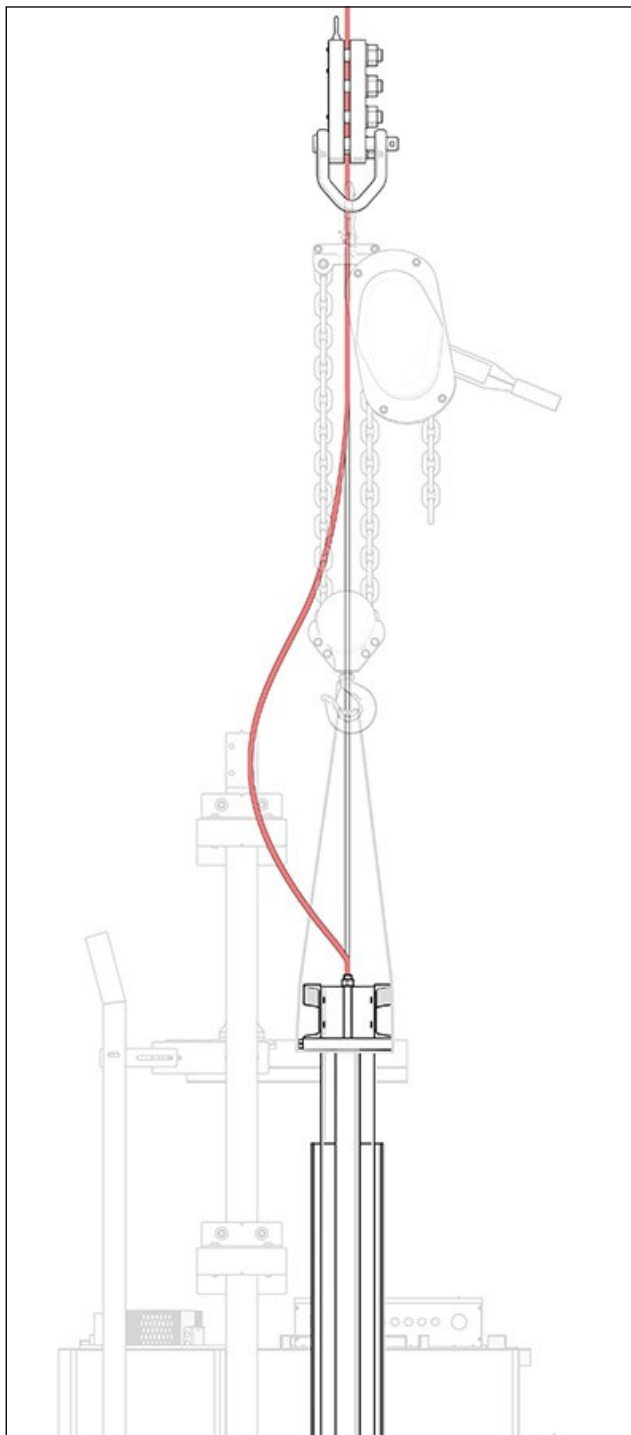
Step 6: Attaching the Web Slings

*NOTE: When working with elevator ropes, use the method in which you were trained. This manual is intended to assist such trained individuals in the installation and use of this equipment and is not intended as a substitute for proper training and experience.

- Secure one end of the Web Sling/Chain to the Chain Hoist.
- Loop the other end of the web sling through the elevator cross-beam, then secure it to the chain hoist. Repeat this process so there are two slings/chains are supporting the crossbeam, per chain hoist.
- Repeat the first two steps for the other chain hoist so the elevator cross-beam is secured on both sides.

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INSTALLATION INSTRUCTIONS

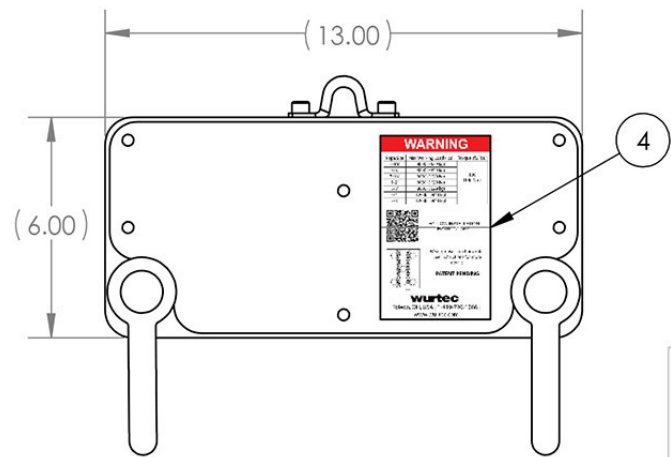
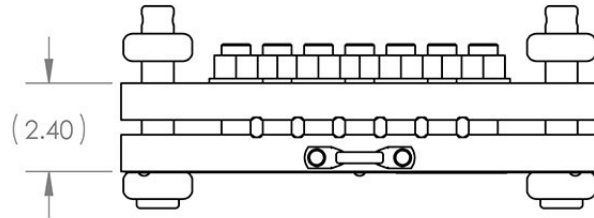
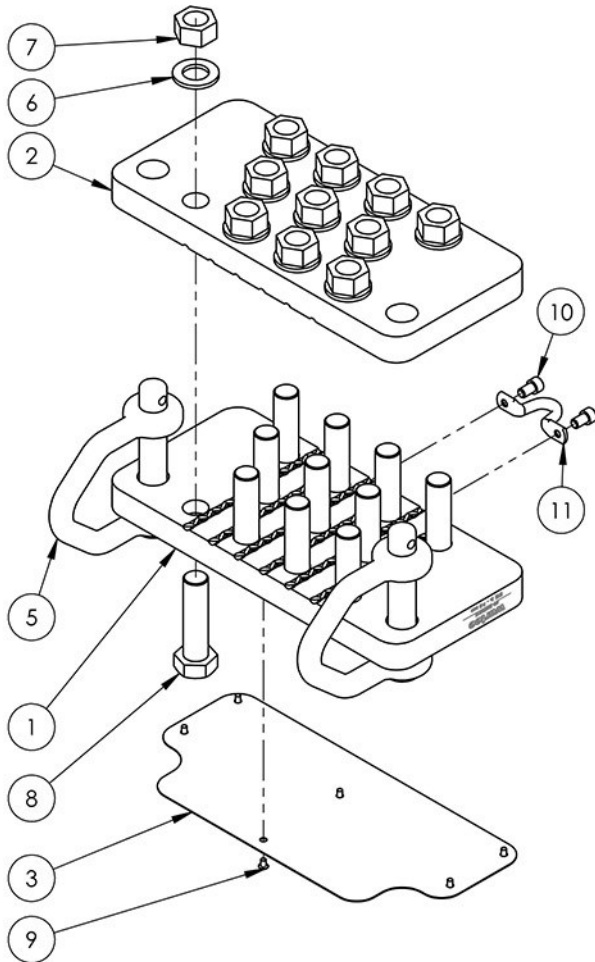


Step 7: Hoisting the Cab

- Slowly crank the lever arm of the Come Along to raise the cab. As the cab is raised, it creates slack in the rope between the Crossbeam and the Shortening Clamp.
- Once there is enough slack, the ropes can be shortened.

Step 7: Hoisting the Cab

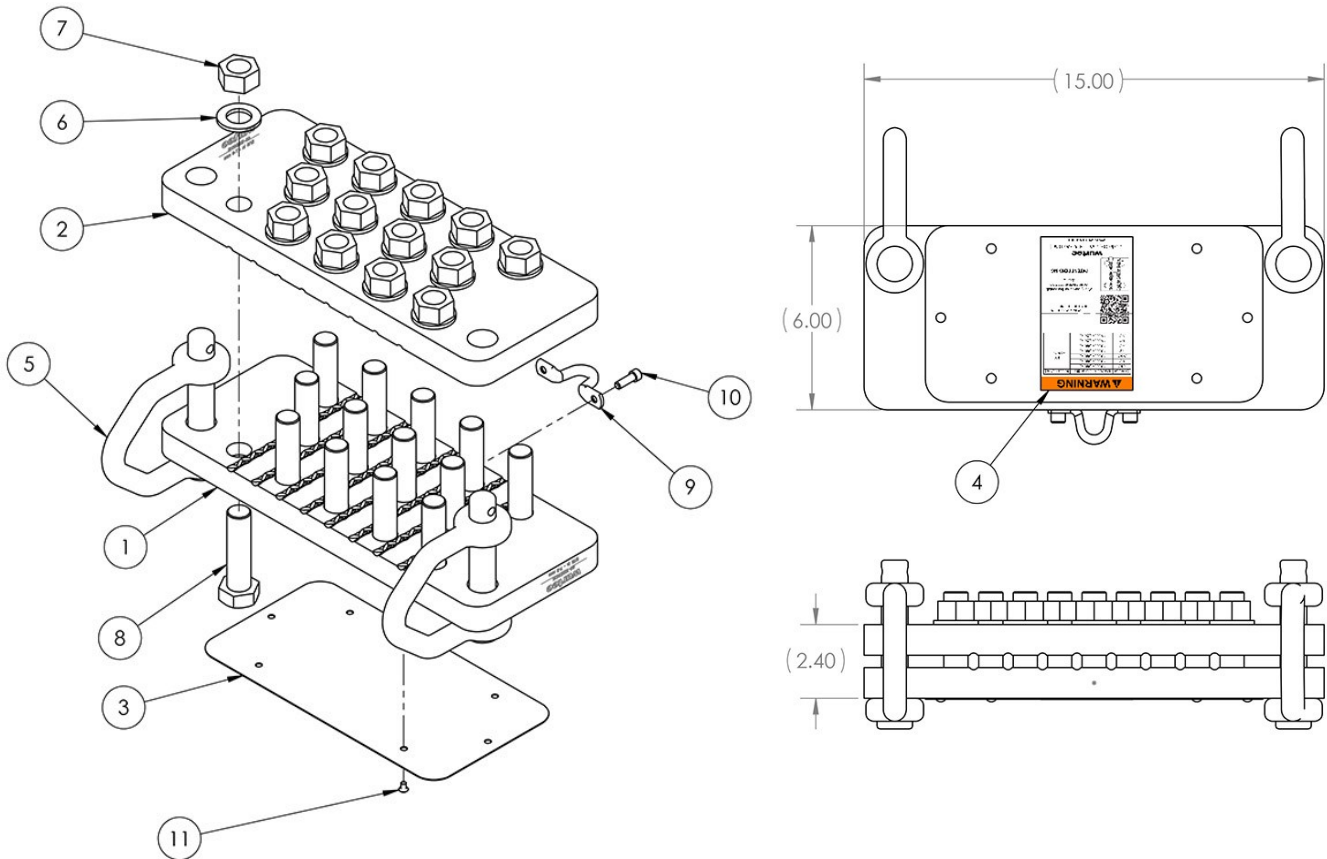
BILL OF MATERIALS - 6-ROPE



Item	Part No.	Description	Size	Length
1	VARIES	5/16 IN 6 ROPE PLATE - POCKET	-	-
2	VARIES	5/16 IN 6 ROPE PLATE - THRU	-	-
3	VARIES	BACK COVER - SMALL	-	-
4	15-10062163	ALUMINUM SHORTENING CLAMP STICKER	-	-
5	M703	CARBON WEB SLING SHACKLE	-	-
6	40363	METRIC TYPE A GENERAL PURPOSE FLAT WASHER	M20 x 37MM OD	-
7	40313	HEX NUT	M20-2.5	-
8	38823	METRIC HEX HEAD CAP SCREW	M20-2.5	75 MM
9	94022	BUTTON HEAD SCREW	8-32	1/4 IN
10	93253	SOCKET HEAD CAP SCREW	5/16-18	3/4 IN
11	8860T128	ROPE GUIDE	-	-

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BILL OF MATERIALS - 8-ROPE



Item	Part No.	Description	Size	Length
1	VARIES	5/16 IN 6 ROPE PLATE - POCKET	-	-
2	VARIES	5/16 IN 6 ROPE PLATE - THRU	-	-
3	VARIES	BACK COVER - SMALL	-	-
4	15-10071239	ALUMINUM SHORTENING CLAMP STICKER	-	-
5	M703	CARBON WEB SLING SHACKLE	-	-
6	40363	METRIC TYPE A GENERAL PURPOSE FLAT WASHER	M20 x 37MM OD	-
7	40313	HEX NUT	M20-2.5	-
8	38823	METRIC HEX HEAD CAP SCREW	M20-2.5	75 MM
9	8860TI28	ROPE GUIDE	-	-
10	93253	SOCKET HEAD CAP SCREW	5/16-18	3/4 IN
11	94022	BUTTON HEAD SCREW	8-32	1/4 IN

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