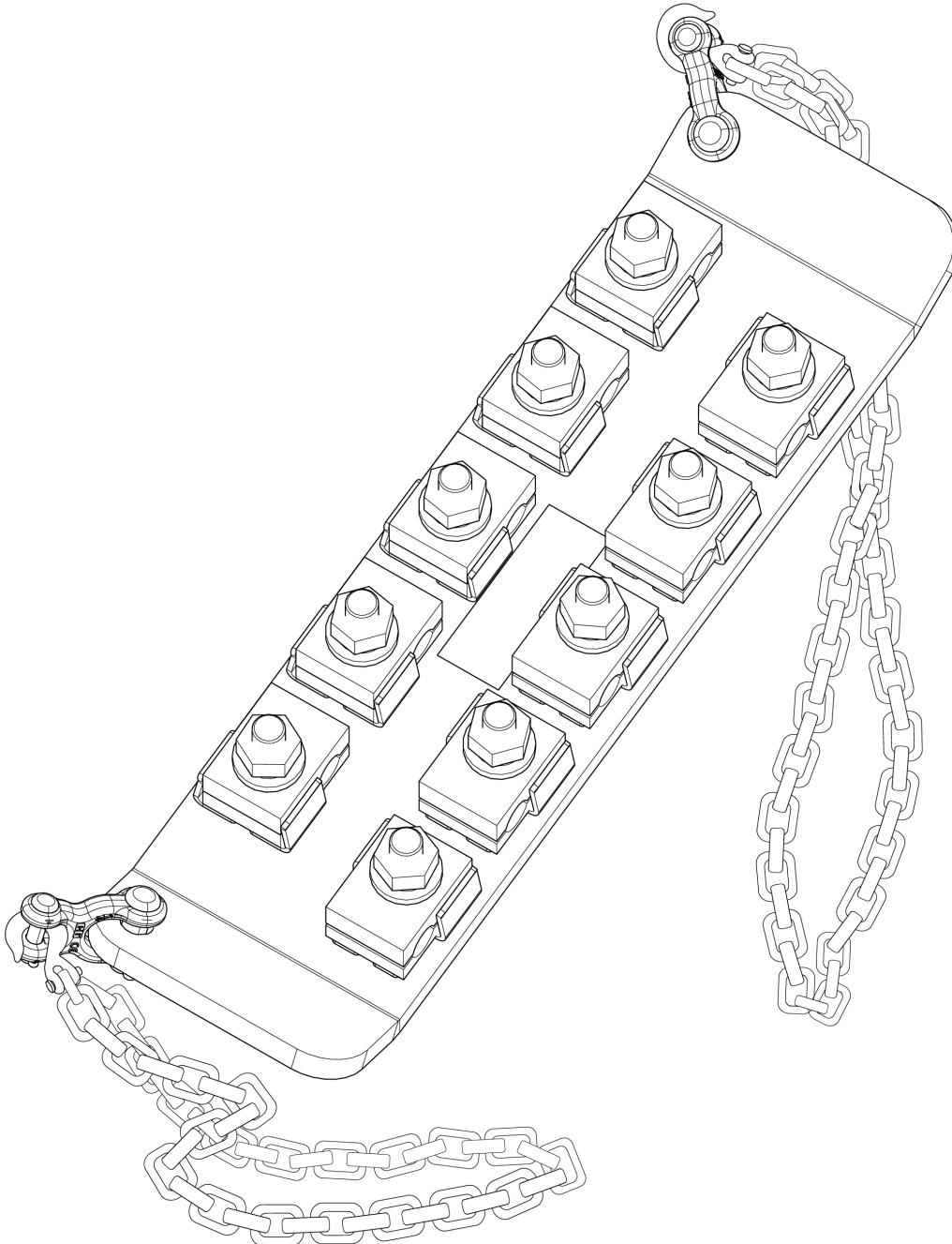


1:1 RE-ROPING TOOL

Part No. 80-300

INSTALLATION INSTRUCTIONS



PRODUCT INFORMATION & SAFETY WARNINGS

PRODUCT WARRANTY & INFORMATION



Scan the QR code to view detailed warranty information at wurtec.com. For questions or product support, contact Wurtec Customer Service at 1-800-837-1066. If a Declaration of Conformity is available for this product, it can be downloaded from its product page on wurtec.com.

EQUIPMENT DESCRIPTION & INTENDED USE

Wurtec's Re-Roping tool is purpose-built for technicians working on counterweighted elevator systems. The tool features integrated anti-rotation clips to keep wire ropes aligned and moving freely, reducing binding and improving safety. This Re-Roping tool is designed to hold up to 10 ropes at a time and support a 750lb capacity.

WARNING

EXCLUSION OF LIABILITY

This equipment should only be installed and serviced by trained personnel. This manual is a guide, not a substitute for formal training, and may not cover every scenario or condition of use. Wurtec reserves the right to change product design and specifications without notice.

FAILURE TO COMPLY WITH THE FOLLOWING GUIDELINES COULD RESULT IN DEATH OR SERIOUS INJURY

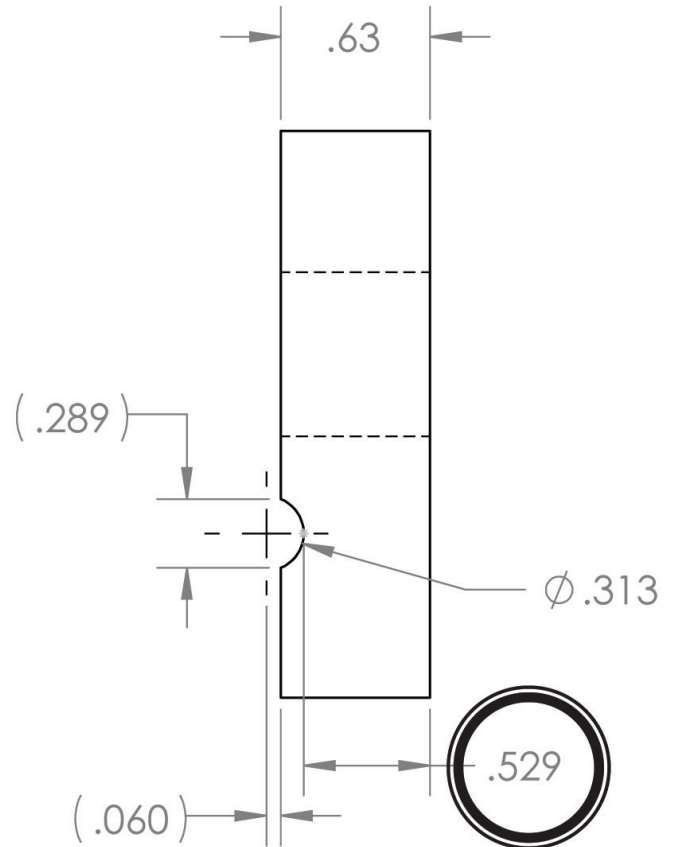
- The tool's capacity is 750 lbs - DO NOT OVERLOAD.
- Always inspect the tool before use and ensure components are in proper working condition.
- Always use this tool along with other safety measures, such as rail blocks, to ensure proper safety redundancy.
- The tool is meant for use on wire rope sizes between 5/16" and 3/4". Do not use on other rope sizes.
- Always torque bolts to 120 ft-lbs.

MAINTENANCE

Assy	Clamps	Replace (in : mm)	
60-800-03	60-10048536	0.509	12.93
	60-10048538	0.284	7.44
60-800-04	60-10048573	0.478	12.14
	60-10048574	0.253	6.43
60-800-05	60-10048562	0.461	11.71
	60-10048563	0.236	5.99
60-800-06	60-10048533	0.430	10.92
	60-10048534	0.205	5.21
60-800-08	60-10048565	0.414	10.52
	60-10048566	0.189	4.80
60-800-09	60-10048582	0.383	9.73
	60-10048583	0.158	4.01
60-800-10	60-10048585	0.366	9.30
	60-10048586	0.141	3.58
60-800-11	60-10048605	0.335	8.51
	60-10048606	0.110	2.79

Replace the clamp halves when their measured thickness is below the value specified in the table. The circled dimension in the graphic identifies the measurement to check.

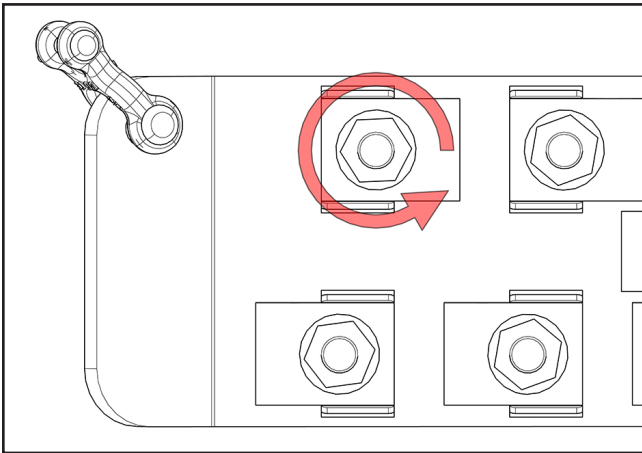
For each clamp assembly, the first clamp part number is the top half and the second clamp part number is the bottom half.



PREPARATION STEPS

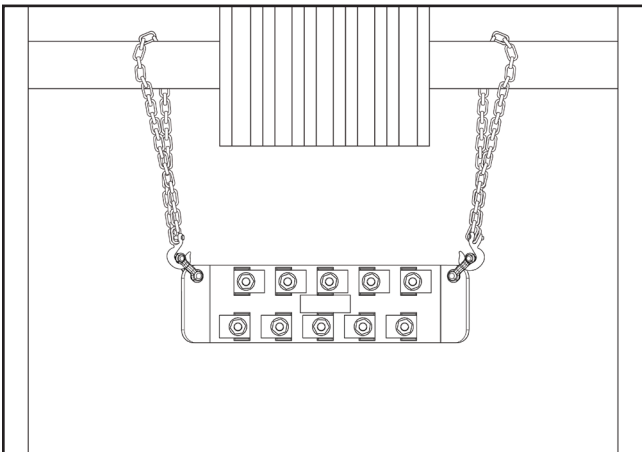
REQUIRED TOOLS

- Torque Wrench
- 1-1/16" Socket



Step 1: Preparation

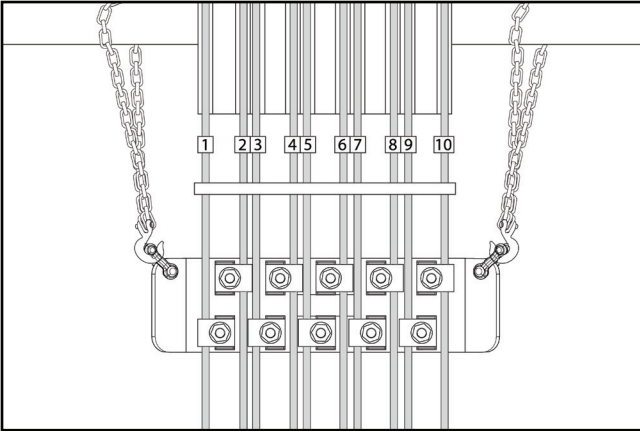
- Inspect the Wurtec 1:1 Re-Roping Tool thoroughly before use, ensuring all components are in proper working condition.
- Set the car on a set of rail blocks to support its weight through the re-roping process.
- Verify that the ropes fall within the supported size range of 5/16" to 3/4".
- Confirm that the tool's rated capacity of 750 lbs is sufficient for the number of roped being installed.
- Stage and secure the new wire rope spool at the top landing to ensure smooth, controlled payout during installation.
- Loosen all nuts on the 1:1 Re-Roping Tool.



Step 2: Mounting the Tool

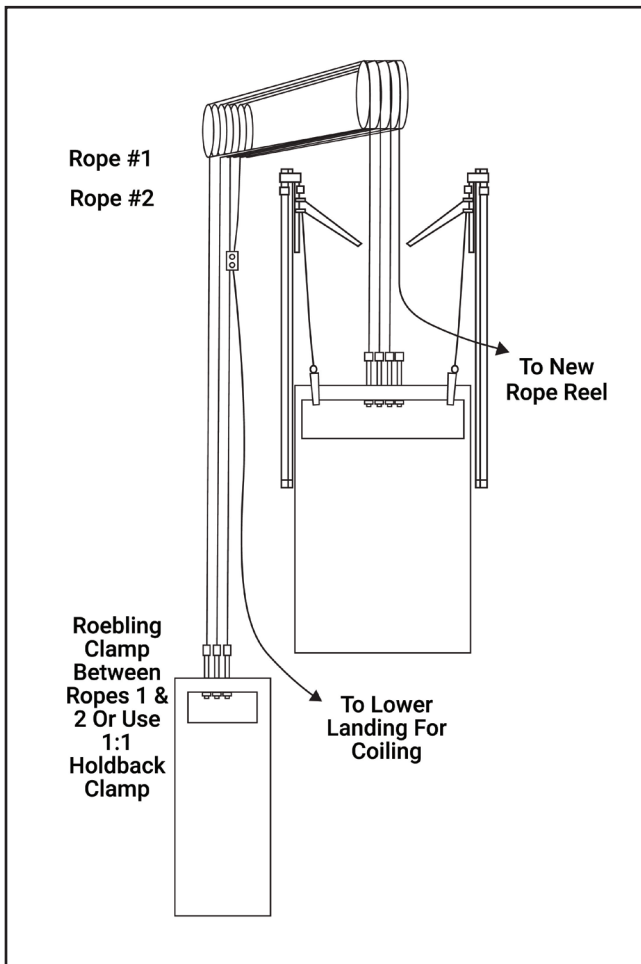
- Position the re-roping tool directly beneath the sheave axle where ropes will be installed.
- Loop each chain securely around the sheave axle.
- Hook the grab hook to the chain near the sheave to secure the tool in place.
- Verify that the tool is centered, level, and firmly supported.

INSTALLATION STEPS



Step 3: Preparing the Ropes

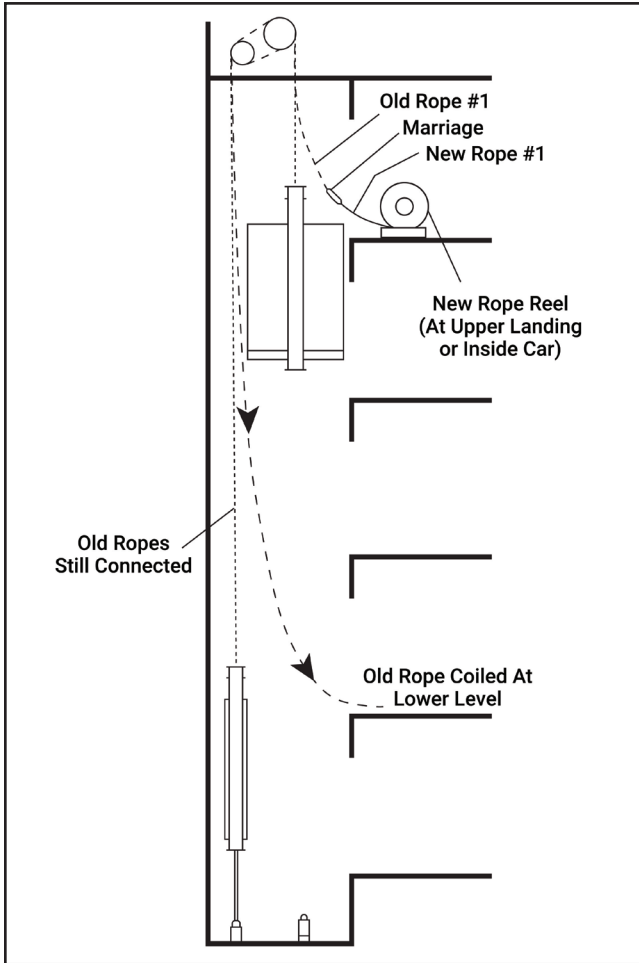
- Label each rope according to its designated position.
- Use a spreader to maintain even spacing and prevent tangling.
- Place the first rope inside the clip, then hand tighten the nut to loosely secure it. Repeat to secure all ropes.
- Check that all ropes are free of kinks, twists, or surface damage.
- Torque all bolts to 120 ft-lbs.



Step 4: Replacing the First Rope

- Remove rope and shackle #1 from the counterweight. Wrap the rope with fiber tape or suitable material and cut the rope at the shackle.
- Install a Roebling clamp from rope #1 to the closest rope.
- Join (marry) the car-hitch side of rope #1 to the rope #1 from the reel. Secure the connection for smooth feeding.

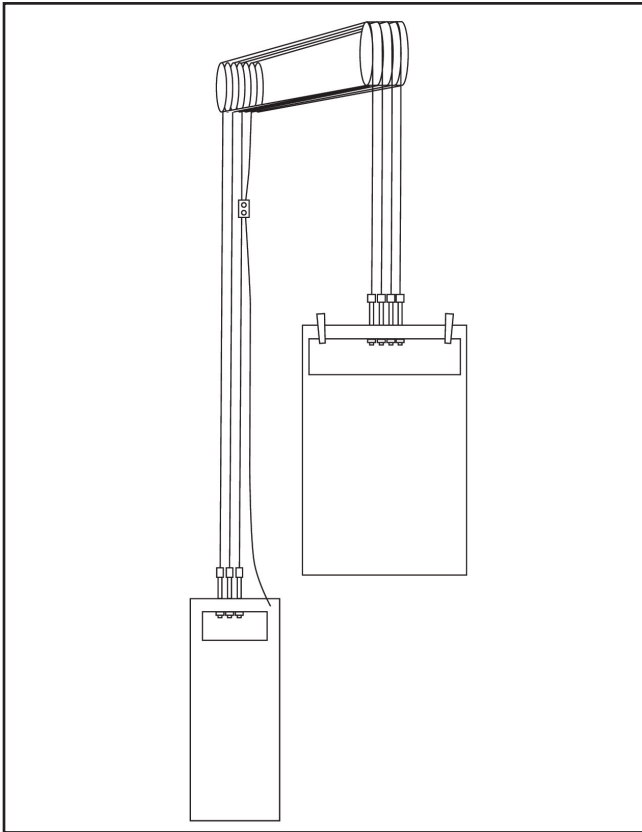
INSTALLATION STEPS



Step 5: Rope Replacement Procedure

1. Prepare a safe method for coiling the old rope at the counterweight level.
2. With one technician at the car top and another in the pit, manually hold back rope #1 at the reel and loosen the Roebling clamp.
 - CAUTION: Never release any rope unless its weight is supported. Always account for the weight of the hanging rope in the hoistway. Before unclamping, verify that the rope being released under control and properly tensioned.
3. Allow rope #1 to slide smoothly over the sheave while coiling the old rope at the counterweight level.
4. If resistance occurs:
 - › Support rope #1 by clamping it with the 1:1 holdback or a Roebling clamp.
 - › Lift rope #1 out of the drive-sheave groove and lay it between two adjacent ropes.
 - › While holding the rope manually, release the clamp to allow freer movement over the sheave.
5. When the splice between the old and new rope reaches the counterweight level, re-clamp rope #1, ensuring there is sufficient slack to install shackles on the counterweight side.
6. Return rope #1 to its drive-sheave groove if it was previously removed.
7. Cut the rope at the reel and install the shackle at the car hitch.
 - › Torque all double nuts to 100-125 ft-lbs.
 - › Ensure all hardware and cotter pins are properly installed.
8. Release rope #1 from the holdback or Roebling clamp.
9. Disconnect the splice between the old and new ropes and install the rope and shackle on the counterweight side, removing as much slack as possible.
 - › Verify that double nuts are locked and all cotter pins are secure.
10. Repeat the re-roping process for each remaining rope.
11. Confirm even rope tension before proceeding.
12. Lace shackles on both the car and counterweight sides per Wurtec specifications.
13. Proceed to the next section: Setting the Car Back on Ropes.

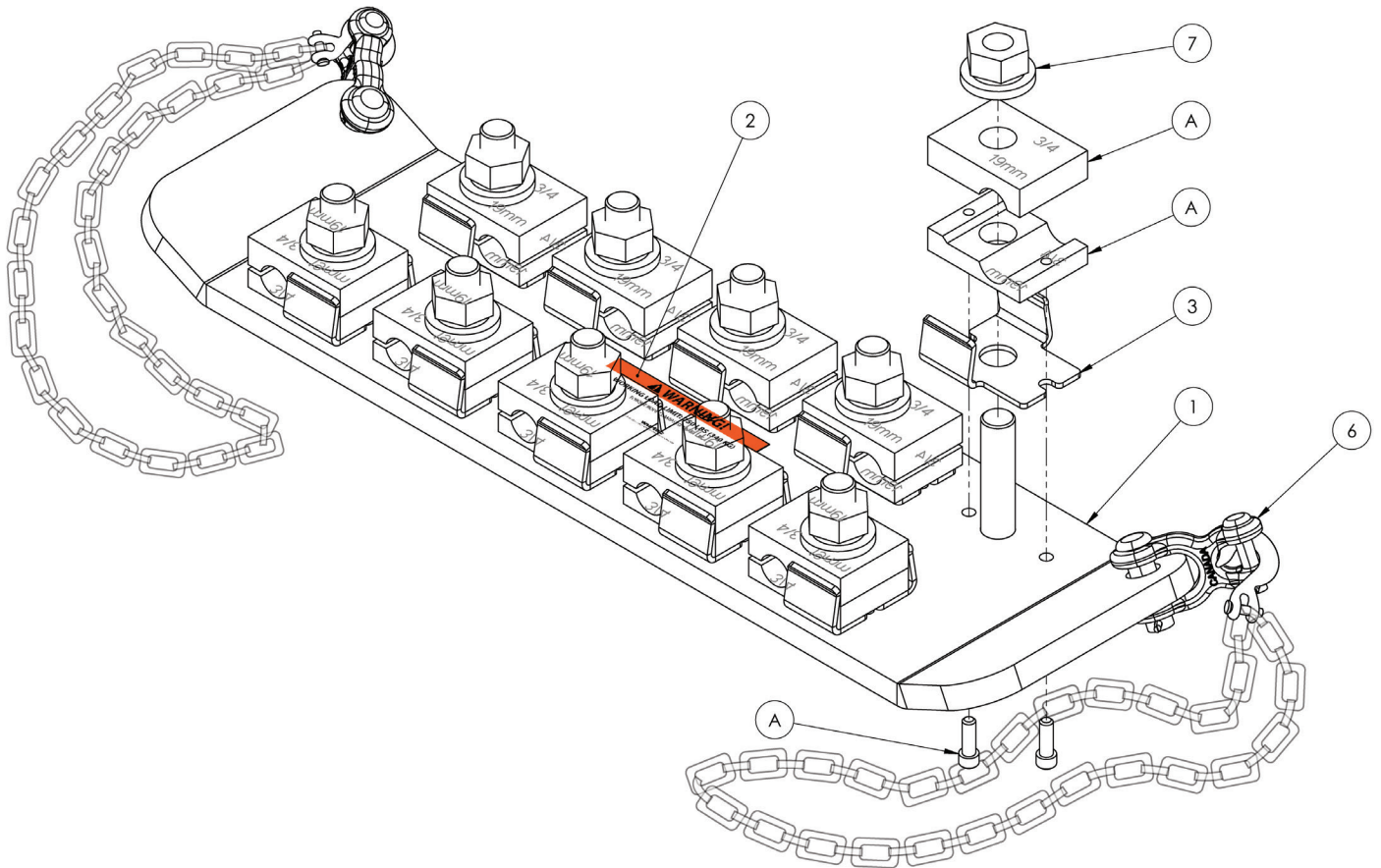
INSTALLATION STEPS



Step 6: Finalization

- Confirm that all ropes are seated correctly in the sheaves and grooves.
- Apply final tensioning using calibrated equipment to achieve uniform load distribution.
- Conduct a test run to ensure smooth travel and proper rope alignment.
- Remove the Wurtec 1:1 Re-Roping Tool and all temporary rigging.
- Complete a final safety inspection before returning the elevator to service.

BILL OF MATERIALS - 60-10085922



Item	Qty	Part No.	Description	Size	Length
1	1	60-10064498	1:1 MAIN PLATE WELDMENT		
2	1	50-10075544	1:1 REROPING TOOL CAPACITY STICKER	-	-
3	10	60-10082298	CLIP, ANTI-ROTATION	-	-
4	2	70-10064506	9/32" HERC-ALLOY 1000 CHAIN 6' REFERENCE PART 607328 FROM COLUMBUS MCKINNON	3/8"	6'
5	2	70-10064507	1/4" CLEVIS GRAB HOOK 3,500 LB WLL COLUMBUS MCKINNON M804A	-	-
6	2	10072870	DOUBLE CLEVIS LINK 1/4" CHAIN S-247 CROSBY 1013021		
7	10	10066931	5/8-11 X 1-3/8 BLACK OXIDE, UNC FLANGE NUT, 12L14	5/8-11	-
A	Cable Clip, Sold Separately			-	-