

Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	1 of 29	1185

INSTALLATION INSTRUCTIONS

Updating, Retrofitting or Upgrading the Rope Gripper® ECR Switch or Contact Assembly

FOR

Models #620, #621, #622, #624, #625, #626, & #626SPL Hollister-Whitney "Rope Gripper® " & Pumping Unit

> (Patent # 5,228,540) CSA Certification File #88181



BEFORE PERFORMING ANY MAINTENANCE ON THE ROPE GRIPPER®®, TAKE ALL THE NECESSARY SAFETY PRECAUTIONS TO IMMOBILIZE THE CAR AND COUNTERWEIGHT DURING THE MAINTENANCE PERIOD TO PREVENT ANY UNINTENDED MOVEMENT THAT MAY RESULT IN INJURY OR DEATH!



BEFORE PERFORMING ANY MAINTENANCE ON THE ROPE GRIPPER®®, REMOVE ALL ELECTRICITY FROM THE MACHINE AND BRAKES TO PREVENT ANY UNINTENDED MOVEMENT THAT MAY RESULT IN INJURY OR DEATH DURING THE MAINTENANCE PERIOD!

READ THE ENTIRE REPLACEMENT PROCEDURE BEFORE BEGINNING ANY OF THE STEPS OUTLINED BELOW. CONTACT HOLLISTER-WHITNEY WITH ANY QUESTIONS PRIOR TO BEGINNING THE BEARING REPLACEMENT.

Warranty and Repair Information

- All parts and equipment manufactured by Hollister-Whitney Elevator Company, LLC are guaranteed against defects in material and workmanship for a period of one (1) year from the date of shipment. Warranty covers only the repair or replacement of parts, F.O.B. our factory, upon determination by inspection at our factory that warranty is applicable. Equipment and components not of our manufacture are warranted only to the extent of the original manufacturer's warranty. Our warranty specifically does not include any other incidental liability or expense such as transportation, labor, and unauthorized repairs.
- Manuals, Parts Lists and Repair Information can be found at: https://www.hollisterwhitney.com/support/
- For free technical support, contact Hollister-Whitney at 1-217-222-0466. Technical support can also be reached at: <u>HW Product Support < productsupport@hwec.com></u>



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	2 of 29	1185





Tools Required

- 1) Screw Drivers; Medium Flat Blade, Phillips #2, as well as smaller ones,
- 2) 1/8" Hex (Allen) Wrench, Ball End Recommended (Safety Set Screws),
- 3) 5/32" Hex (Allen) Wrench, Long Handle Ball End Recommended,
- 4) 5/16" Wrench,
- 5) Dikes (side cutters),
- 6) Bastard or other small file,
- 7) Small can of compressed air,
- 8) Wire Strippers

Introduction

The instructions found here are for upgrading your currently installed Rope Gripper® to the new ECR Contact Assembly. All instructions assume that all the proper company safety procedures have been followed and applied prior to any work being started.

The 620-064-RK kit is used on all models of Rope Gripper[®]. Please review Print #620-064-RK found at the end of this manual. If any parts are missing or damaged contact Hollister-Whitney prior to beginning any work.

While the switch upgrade described below can be done on all Rope Gripper[®] Models, due to the tight spaces inside the 620 Rope Gripper[®] it will be easiest to remove the switch assembly as per the below. Other Grippers can be retrofitted without removing the entire switch assembly.

In the instructions below, pictures of the 620 Rope Gripper[®] are generally on the left, while a 622 Rope Gripper[®] assembly is pictured on the right. Steps for the 622 are appropriate for models 621, 624, 625, 626, and 626SPL.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	3 of 29	1185

ECR Contact Installation

- 1. Confirm that the car is out of service and that all company policies for securing the lift and protecting the public have been met.
- 2. Remove the cover from both the Rope Gripper® and from the Pumping Unit.
- 3. Follow the instructions on the inside of the pump unit cover to turn the Valve Stem to Manual.





4. If the Rope Gripper[®] is not already locked open; using the hand pump, open the gripper to the "ready" position and lock it open with the safety set screws (1/8" Hex Key).





5. Remove the two Allen head screws (5/32" Hex Key) that hold the Actuating Bracket to the Rotating Shaft Tube. Discard the actuating bracket and shorting bar.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	4 of 29	1185





6. Retain the screws and replace them loosely in the Rotating Shaft Tube; this is a convenient place to store these for later use.

NOTE: If you are retrofitting a 620 Rope Gripper[®], continue. If you are retrofitting a 621, 622, 624, 625, 626 or 626SPL, skip to Step 11.



7. Locate the top two Allen screws on top of the latching coil bracket.



8. Remove the screws (and washers) from the top of the latching coil bracket and retain them. (5/32" Hex Key)



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	5 of 29	1185



9. Loosen BUT DO NOT REMOVE the bottom two Allen screws from the latching coil bracket. It should only take a quarter or half turn to loosen the bracket. (5/32" Hex Key)



10. Lift the assembly out of the Gripper and tip it slightly to gain access to the two switches.





11. Remove the nut and star washer that holds both switches (Brake Ready and ECR) in place (5/16" wrench). An extra nut and star washer have been included in the kit for convenience, just in case.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	6 of 29	1185





12. Slide the two switches off the bracket assembly. Push the ECR contact assembly out of the way and place the microswitch back over the screws onto the bracket.





13. Place the nut on the BOTTOM screw and snug down the nut against the insulating spacer. Confirm the order of parts from the bracket inward: insulating spacer against the bracket, microswitch, second insulating spacer, and nut.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	7 of 29	1185



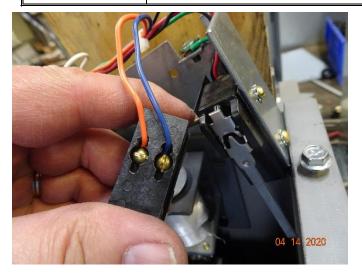
14. Using a pair of dikes or side cutters, nip off the bottom screw flush with the nut.



15. Cutting the screw will likely leave a sharp point where it was cut. File off the end of the screw as necessary so it is flat, with approximately a thread extending past the nut. Using small can of compressed air, blow area clean of debris.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	8 of 29	1185



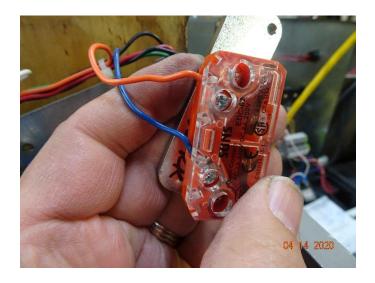
16. Turn over the old ECR contact to reveal the two screws on the back.



17. Remove the two screws from the ECR assembly to release the blue and orange wires.



18. Carefully straighten the ends of both wires. If they are too damaged to straighten, nip off just enough of the wire to remove the damaged portion. Strip the wires back so there is 1/4 to 3/8" of bare wire.



19. Attach these wires to opposite sides of the new ECR switch provided. It doesn't matter which side is which, but if one wire is shorter than the other, use the shortest wire for the top and the longer of the two for the bottom.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	9 of 29	1185





20. Now remove the nut from the screw that was nipped off.

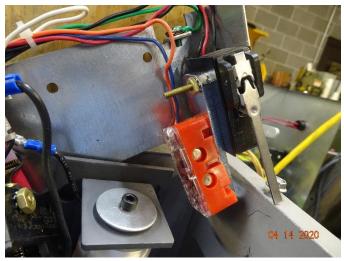




21. To gain a bit of maneuvering room for the next to steps in may be necessary to cut the small zip tie closes to the switches. Place the new ECR and ECR bracket onto the two screws in the switch bracket assembly.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	10 of 29	1185





22. Place the star washer and nut on the top screw and secure the new ECR bracket assembly to the switch bracket assembly.

NOTE: If you are retrofitting a 620 Rope Gripper[®], continue. If you are retrofitting a 621, 622, 624, 625, 626 or 626SPL, skip to Step 25.



23. When complete, make sure the blue and orange wires are still secure. The wires should also be pulled upwards, pushed flat against the sheet metal and pushed as far towards the outside (to the right) as possible.



24. Return the retrofitted microswitch assembly into the Gripper. Some care may need to be taken with the orange and blue wires to make sure they clear the latching coil assembly during this process. Replace the top two screws into the assembly and tighten the bottom two screws.

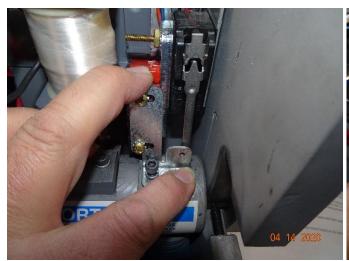


Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	11 of 29	1185





25. Install the new actuating assembly. It will be easier to remove the brass screw and nut to allow the two Allen head screws in the rotating shaft tube to be installed.





26. Line up hole for the brass screw with the lever on the microswitch.



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	12 of 29	1185





- 27. Snug the assembly down. The shorting bar needs to be centered within the openings in the ECR contact. Adjust the Actuating Assembly and Shorting Bar as necessary to get the best fit for your assembly.
- 28. In the pumping unit, remove the orange and blue wires from terminal blocks RG5 and RG6 and test for continuity across these wires; there should be continuity between Blue and Orange. If not, the wires may have come loose from the new ECR contact. Correct as necessary. Reconnect Orange to RG5 and Blue to RG6 in the pumping unit.





- 29. Insert the brass screw that activates the lever of the Brake Ready microswitch. Drive it in until you hear the click of the switch (switch opening). Turn the screw a quarter turn more. Gently lock down the brass nut on the screw.
- 30. In the pumping Unit, the valve stem should be in manual. Give the hand pump handle a brief pump to relieve pressure on the safety set screws. Back the safety set screws out, remove them and store them in the bottom of the pumping unit.
- 31. While observing the new ECR contact and shorting bar, adjust the valve stem cam so that the valve allows the Gripper to very slowly clamp or close. Observe the action of the new ECR contact and shorting bar. The goal is



Document Name	Date	Rev.	Page	Bulletin
FIELD INSTALLATION – ECR RETROFIT	7/21/20	A	13 of 29	1185

to make sure the shorting bar is actuating the ECR contact properly, and that the contact bar points are clearing the ECR housing properly as the contact bar backs out, so as not to damage the ECR casing.

32. When the shorting bar has cleared the ECR, close the valve stem again and hand pump very slowly and observe the two pieces as the shorting bar reenters the ECR.



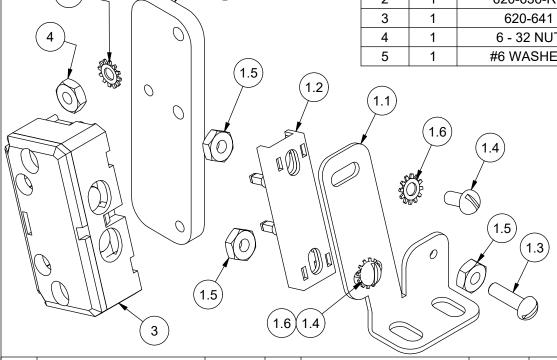


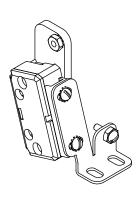
- 33. Adjust the shorting bar as necessary for fit, clearance and travel based on the above observation and repeat the process as necessary.
- 34. The ECR upgrade is now complete.
- 35. Observe all company policies and safety procedures and protocols for returning the lift to service.

NOTES:

- ECR RETROFIT KIT INTENDED FOR ALL
 HYDRAULIC ROPE GRIPPER MODEL SWITCH
 ASSEMBLIES
- SEE PAGE 2 OF 2 FOR EXAMPLE RENDERINGS OF 620-064-RK;
- APPLIED TO 620-064 WHICH IS USED IN MODEL 620.
- APPLIED TO 622-064 WHICH IS USED IN MODELS 621, 622, 624, 625, 626 AND 626SPL.

			PARTS LIST
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	620-638-18RK	ACTUATING ANGLE ASSEMBLY, RETROFIT KIT - 18mm
1.1	1	620-639-RK	SWITCH ACTUATING ANGLE - RETROFIT KIT
1.2	1	620-640-18	SHORTING BAR - 18mm
1.3	1	#6-32 UNC X 0.5	BRASS MACHINE SCREW
1.4	2	#6-32 UNCX0.3125	BRASS MACHINE SCREW
1.5	3	#6-32 UNC NUT	BRASS NUT
1.6	2	#6 WASHER	EXTERNAL STAR LOCK WASHER
2	1	620-636-RK	ECR SWITCH MOUNT - RETROFIT KIT
3	1	620-641	ECR CONTACT - EDC-61
4	1	6 - 32 NUT	MACHINE SCREW NUT
5	1	#6 WASHER	EXTERNAL STAR LOCK WASHER





ASSEMBLY VIEW SCALE 1:2

WEIGHT: 0.2 lbmass

SHEET 1 OF 2

	Α	PRODUCTION RELEASE,	LTL 3/30/20

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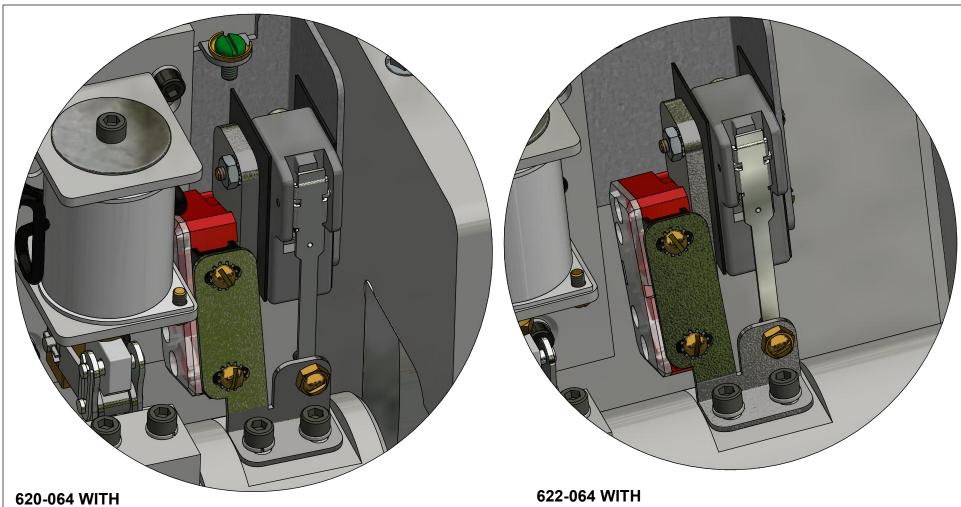
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GRIPPER	

HOLLISTER-WHITNEY
ELEVATOR CO. LLC

DRAWN SCALE MATERIAL
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SHEET SIZE DATE

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620-064-RK

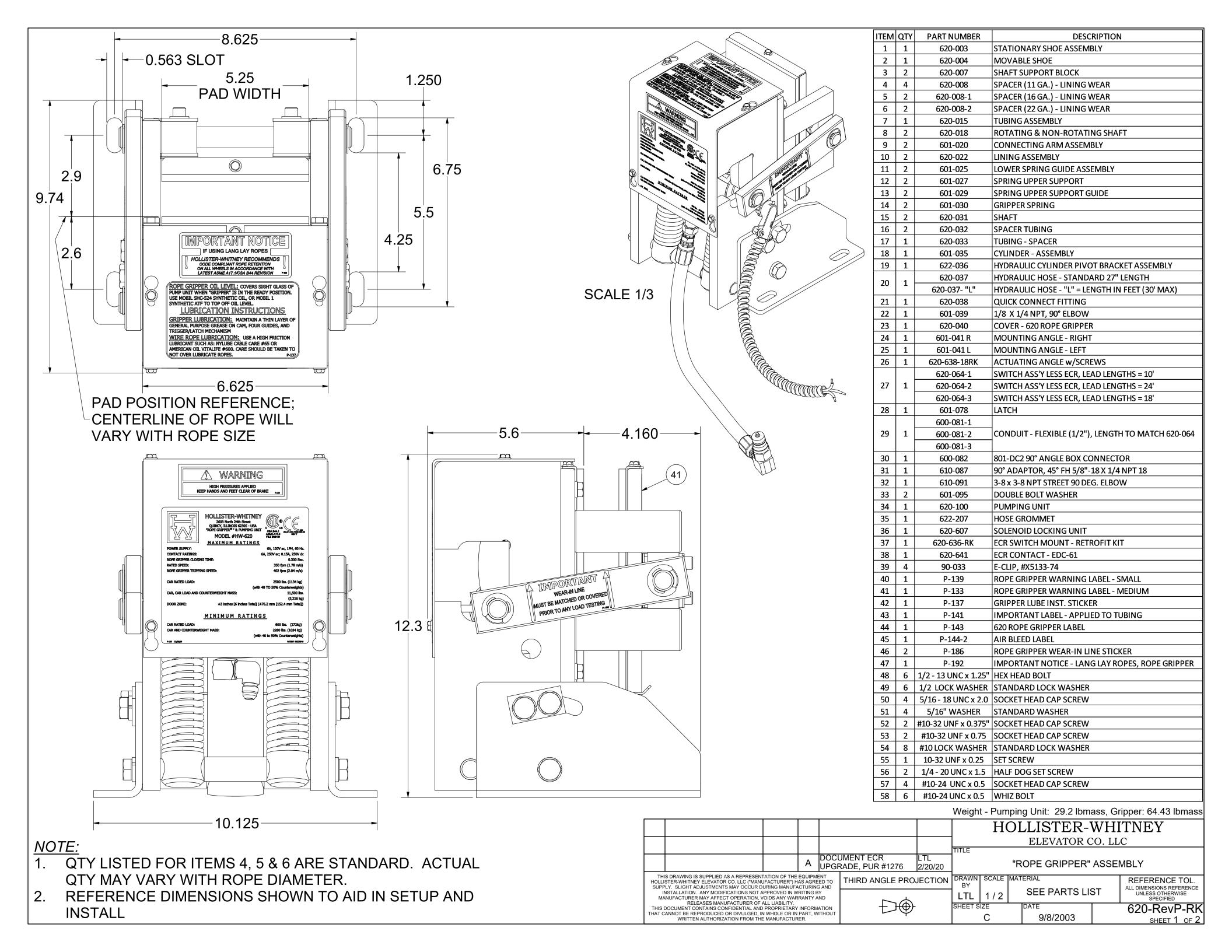
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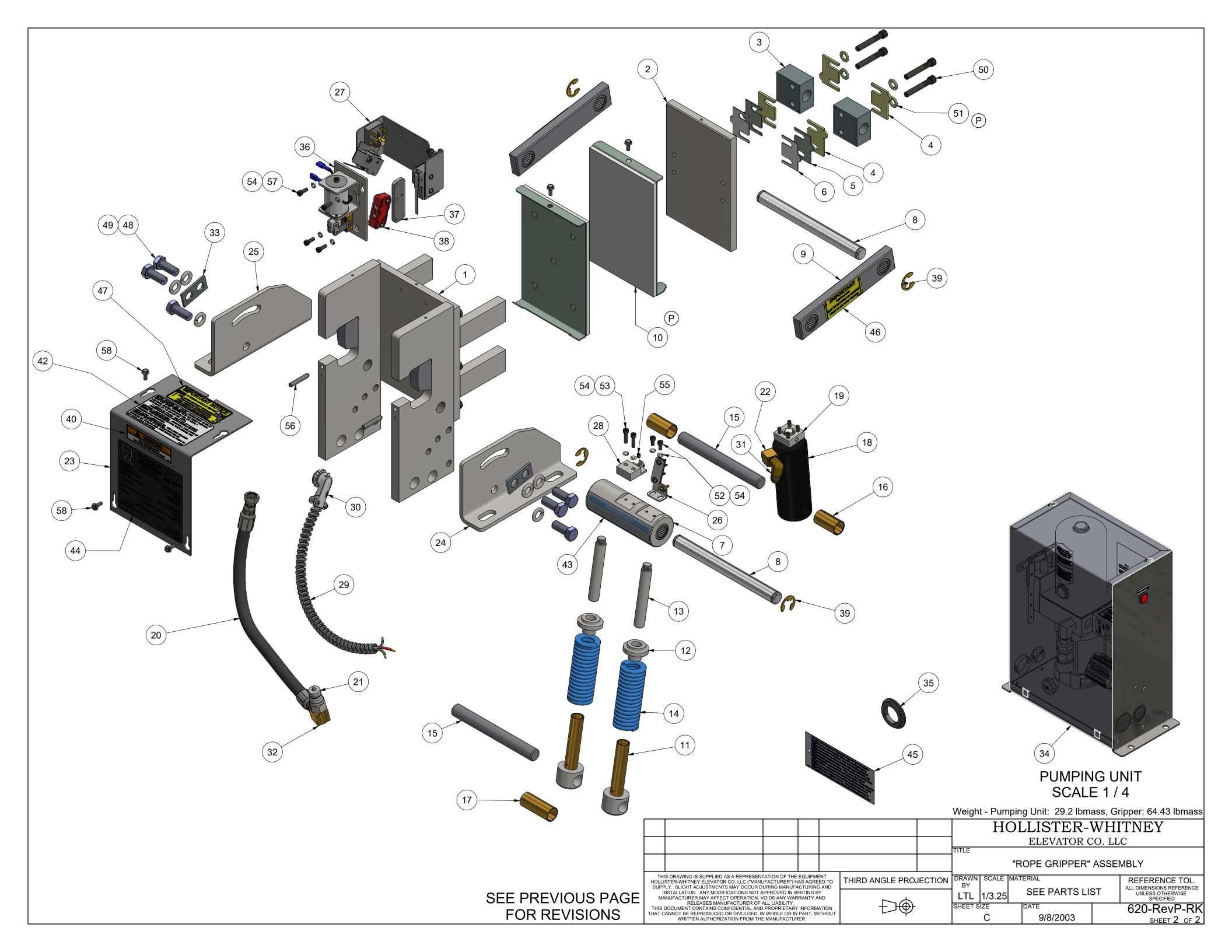


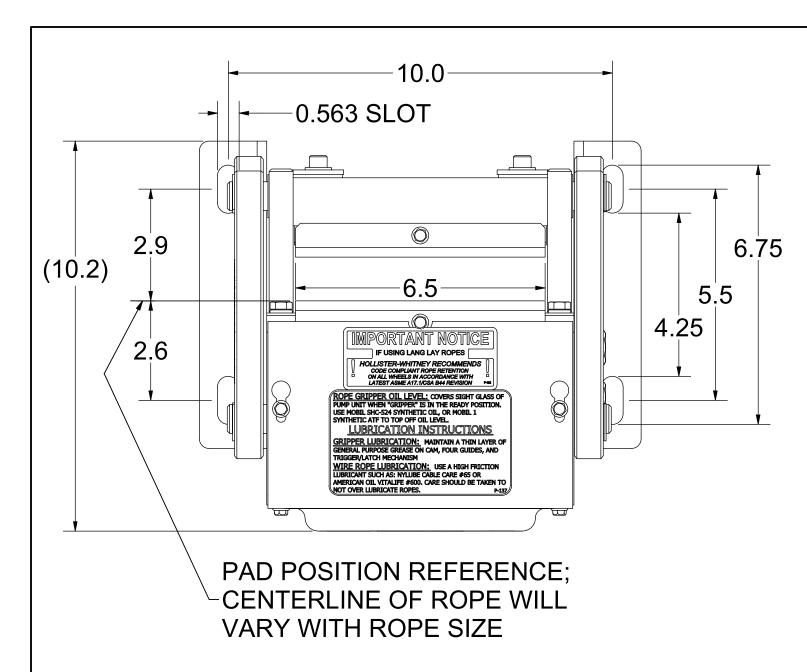
620-064 WITH KIT INSTALLED SCALE 1: 1 622-064 WITH KIT INSTALLED SCALE 1:1

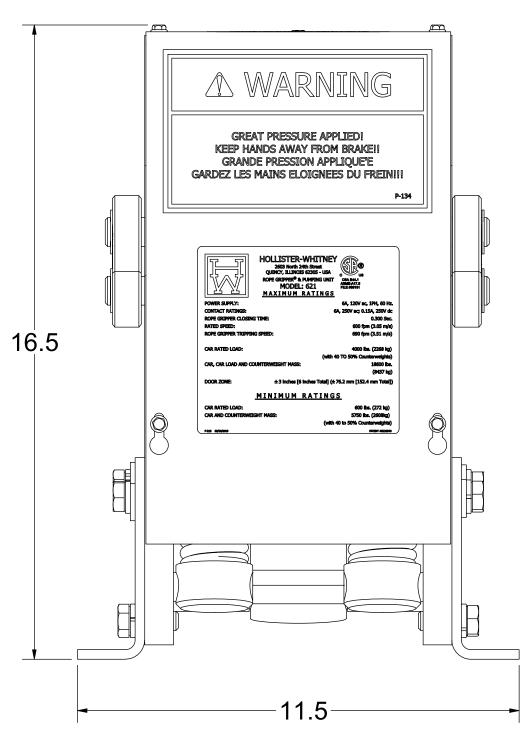
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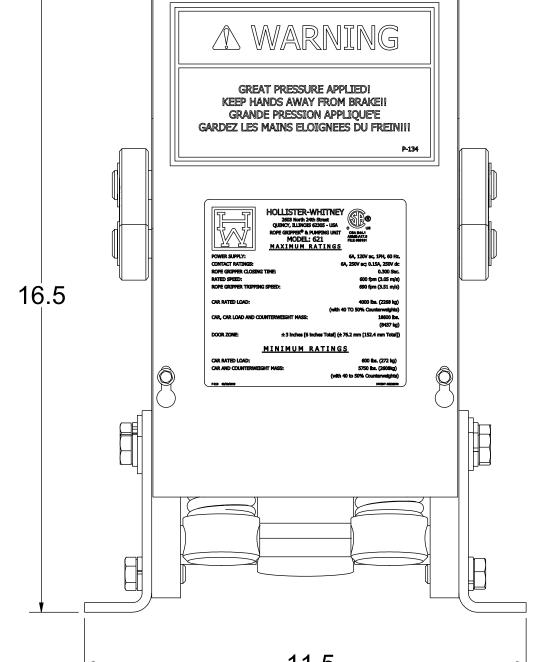
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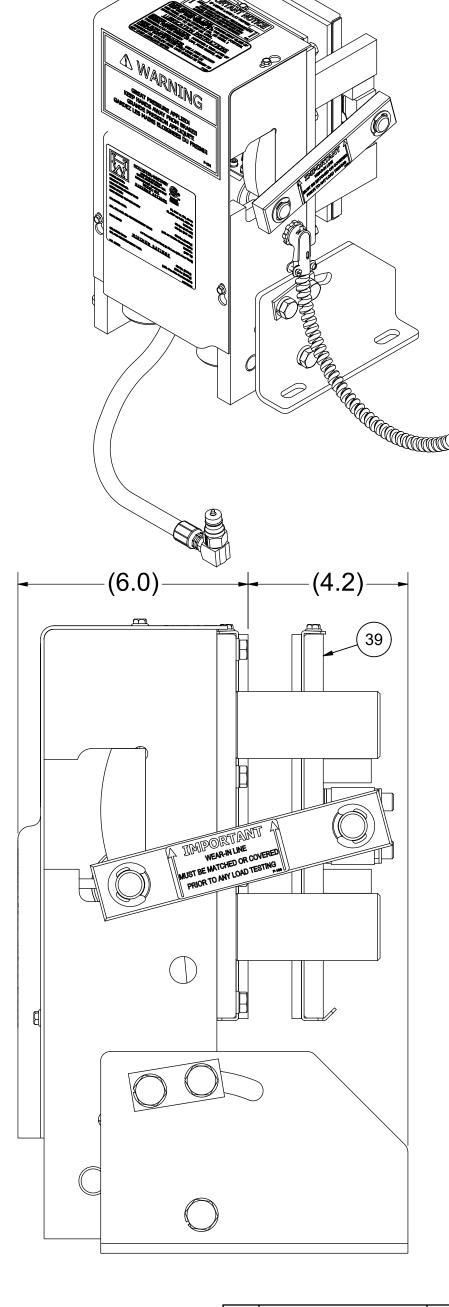






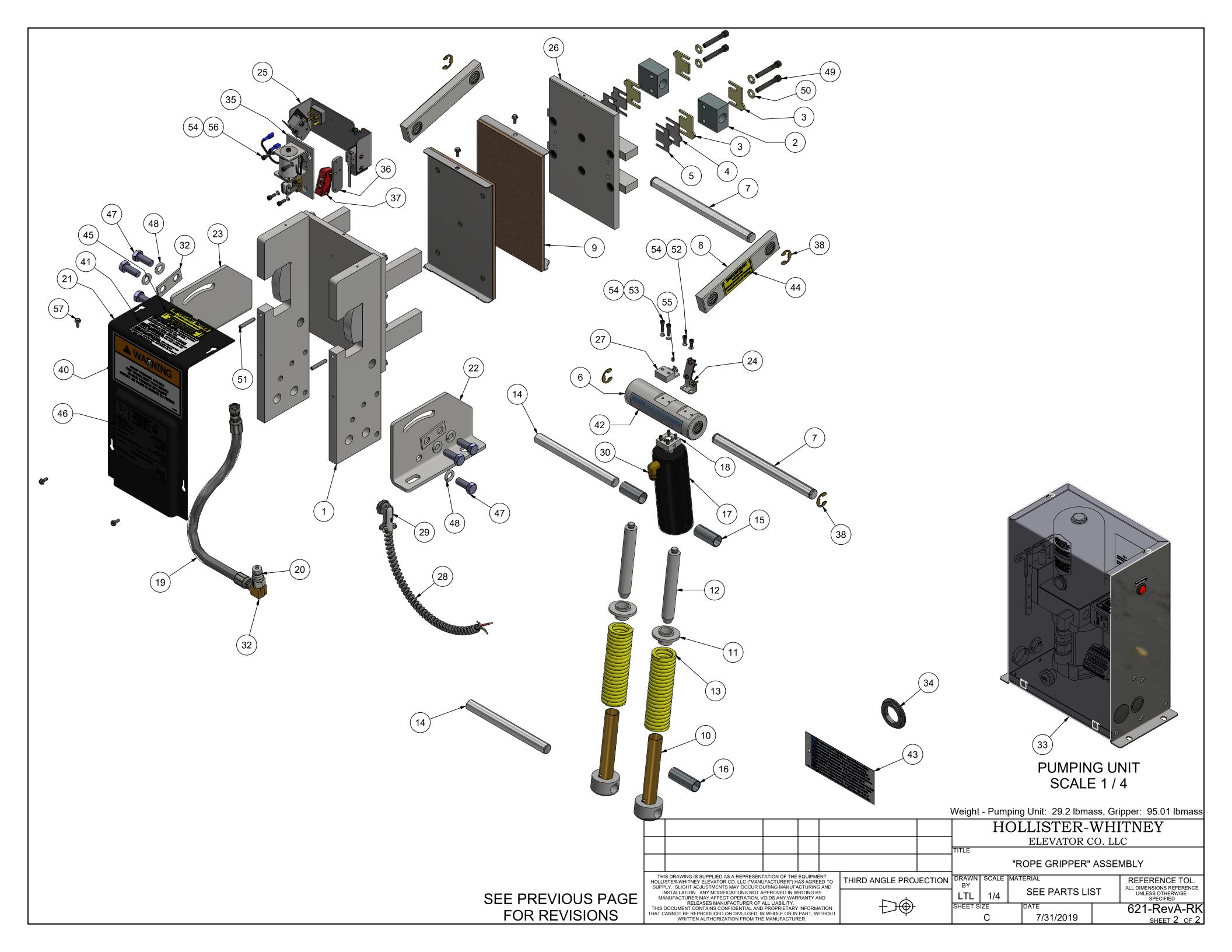
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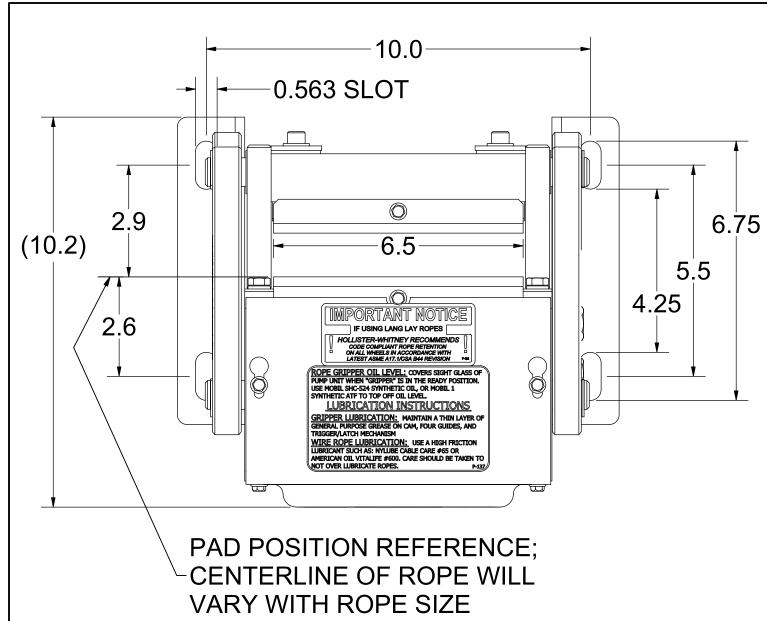
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- REFERENCE DIMENSIONS SHOWN TO AID IN SETUP AND INSTALL

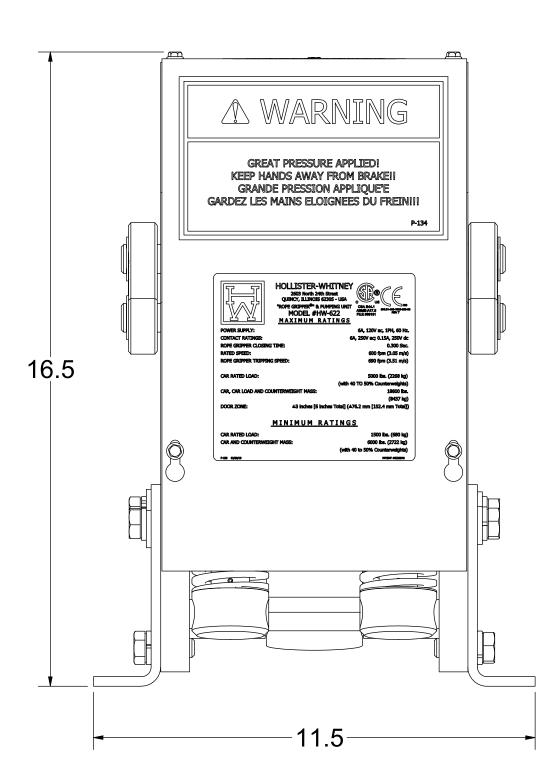


ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	622-003	STATIONARY SHOE ASSEMBLY
2	2	620-007	SHAFT SUPPORT BLOCK
3	4	620-008	SPACER (11 GA.) - LINING WEAR
4	2	620-008-1	SPACER (16 GA.) - LINING WEAR
5	2	620-008-2	SPACER (22 GA.) - LINING WEAR
6	1	622-015	TUBING ASSEMBLY
7	2	622-018	SHAFT - ROTATING & NON-ROTATING
8	2	600-020	CONNECTING ARM ASSEMBLY
9	2	622-022	LINING ASSEMBLY
10	2	600-025	LOWER SPRING GUIDE ASSEMBLY
11	2	600-027	UPPER SPRING SUPPORT
12	2	600-029	GUIDE - UPPER SPRING SUPPORT
	+		SPRING
13	2	621-030	
14	2	622-031	SHAFT
15	2	601-032	TUBING - SPACER
16	1	622-033	TUBING - SPACER
17	1	600-035	CYLINDER ASSEMBLY
18	1	622-036	HYDRAULIC CYLINDER PIVOT BRACKET ASSEMBLY
19	1	620-037	HYDRAULIC HOSE - STANDARD 27" LENGTH
	<u> </u>	620-037- "L"	HYDRAULIC HOSE - "L" = LENGTH IN FEET (30' MAX)
20	1	620-038	QUICK CONNECT FITTING
21	1	622-040	COVER - 622 ROPE GRIPPER
22	1	600-041 R	ANGLE, RIGHT HAND - MOUNTING
23	1	600-041 L	ANGLE, LEFT HAND - MOUNTING
24	1	620-638-18RK	ACTUATING ANGLE ASSEMBLY, RETROFIT KIT, 18mm
		622-064-1	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 10'
25	1	622-064-2	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 24'
		622-064-3	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 18'
26	1	622-072	MOVABLE SHOE ASSEMBLY
27	1	601-078	LATCH
		600-081-1	
28	1	600-081-2	CONDUIT - FLEXIBLE (1/2"), LENGTH TO MATCH 622-064
		600-081-3	(4, 2, 7, 2, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
29	1	600-082	801-DC2 90° ANGLE BOX CONNECTOR
30	1	610-087	PARKER #149F-6-4 MALE ELBOW
31	1	610-091	3-8 x 3-8 NPT STREET 90 DEG. ELBOW
32	2	600-095	WASHER - DOUBLE BOLT
33	1	620-100	PUMPING UNIT
34	1	622-207	HOSE GROMMET
35	1	620-607	SOLENOID LOCKING UNIT
36	1	620-636-RK	ECR SWITCH MOUNT - RETROFIT KIT
37	1	620-641	ECR CONTACT - EDC-61
38	4	90-033	E-CLIP, #X5133-74
39	1	P-133	ROPE GRIPPER WARNING LABEL - MEDIUM
40	1	P-134	ROPE GRIPPER WARNING LABEL - LARGE
41	1	P-137	GRIPPER LUBE INST. STICKER
42	1	P-141	IMPORTANT LABEL - APPLIED TO TUBING
43	1	P-144-2	AIR BLEED LABEL
44	2	P-186	ROPE GRIPPER WEAR-IN LINE STICKER
45	1	P-192	IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPER
46	1	P-219	621 ROPE GRIPPER LABEL
47	6	1/2 - 13 UNC x 1.25"	HEX HEAD BOLT
48	6	•	STANDARD LOCK WASHER
49	4	-	SOCKET HEAD CAP SCREW
50	4	5/16" WASHER	STANDARD WASHER
51	2	•	HALF DOG SET SCREW
52	2	-	SOCKET HEAD CAP SCREW
53	2	#10-32 UNF x 0.375	SOCKET HEAD CAP SCREW
54	8	#10 LOCK WASHER	STANDARD LOCK WASHER
55	1	10-32 UNF x 0.25	SET SCREW
56	4	#10-24 UNC x 0.5	SOCKET HEAD CAP SCREW
57	6	#10-24 UNC x 0.5	WHIZ BOLT
		Weight -	Pumping Unit: 29.2 lbmass, Gripper: 95.01 lbmass

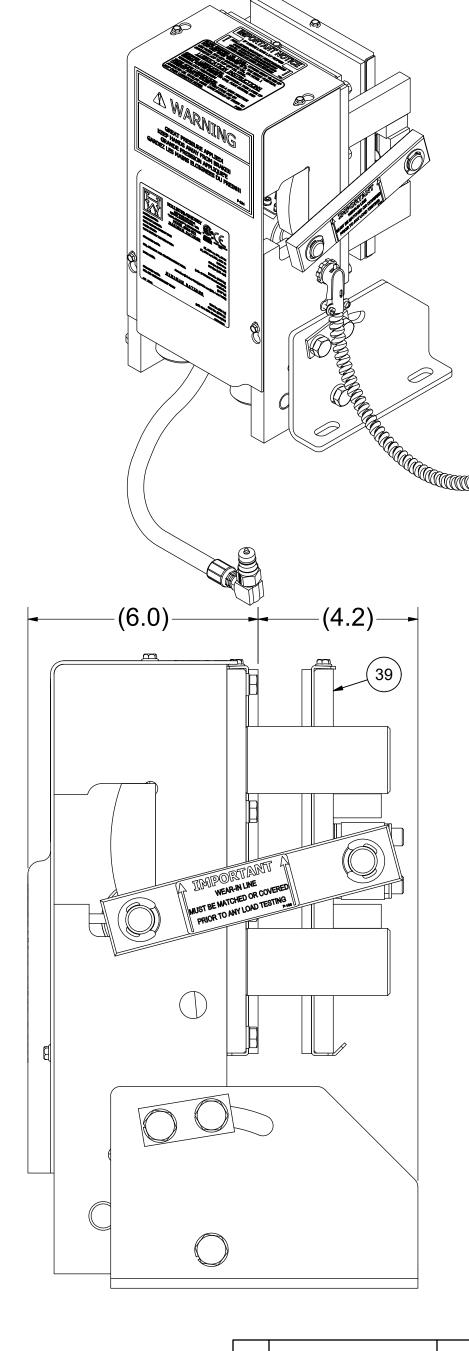
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9	2	622-022	LINING ASSEMBLY
10	2	600-025	LOWER SPRING GUIDE ASSEMBLY
11	2	600-027	UPPER SPRING SUPPORT
12	2	600-029	GUIDE - UPPER SPRING SUPPORT
13	2	600-030	SPRING (BLUE) - STANDARD DUTY
14	2	622-031	SHAFT
15	2	601-032	TUBING - SPACER
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23	-		,
26		622-064-3	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 18'
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35	1	620-607	SOLENOID LOCKING UNIT
36	1	620-636-RK	ECR SWITCH MOUNT - RETROFIT KIT
37	1	620-641	ECR CONTACT - EDC-61
38	4	90-033	E-CLIP, #X5133-74
39	1	P-133	ROPE GRIPPER WARNING LABEL - MEDIUM
40	1	P-134	ROPE GRIPPER WARNING LABEL - LARGE
41	1	P-137	GRIPPER LUBE INST. STICKER
42	1	P-135	622 ROPE GRIPPER LABEL
43	1	P-141	IMPORTANT LABEL - APPLIED TO TUBING
44	1	P-144-2	AIR BLEED LABEL
45	2	P-144-2 P-186	ROPE GRIPPER WEAR-IN LINE STICKER
	1		
46			IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPER
47	6	1/2 - 13 UNC x 1.25"	
48	6	•	STANDARD LOCK WASHER
49	4	•	SOCKET HEAD CAP SCREW
50	4	5/16" WASHER	STANDARD WASHER
51	2	·	HALF DOG SET SCREW
		MAG GOLDIE G GTEN	SOCKET HEAD CAP SCREW
52	2	#10-32 UNF X 0.3/5"	SCORETTIER OF A SCREW
52 53	2	#10-32 UNF x 0.75	SOCKET HEAD CAP SCREW
		#10-32 UNF x 0.75	
53	2	#10-32 UNF x 0.75	SOCKET HEAD CAP SCREW
53 54	2 8	#10-32 UNF x 0.75 #10 LOCK WASHER	SOCKET HEAD CAP SCREW STANDARD LOCK WASHER
53 54 55	2 8 1	#10-32 UNF x 0.75 #10 LOCK WASHER 10-32 UNF x 0.25	SOCKET HEAD CAP SCREW STANDARD LOCK WASHER SET SCREW

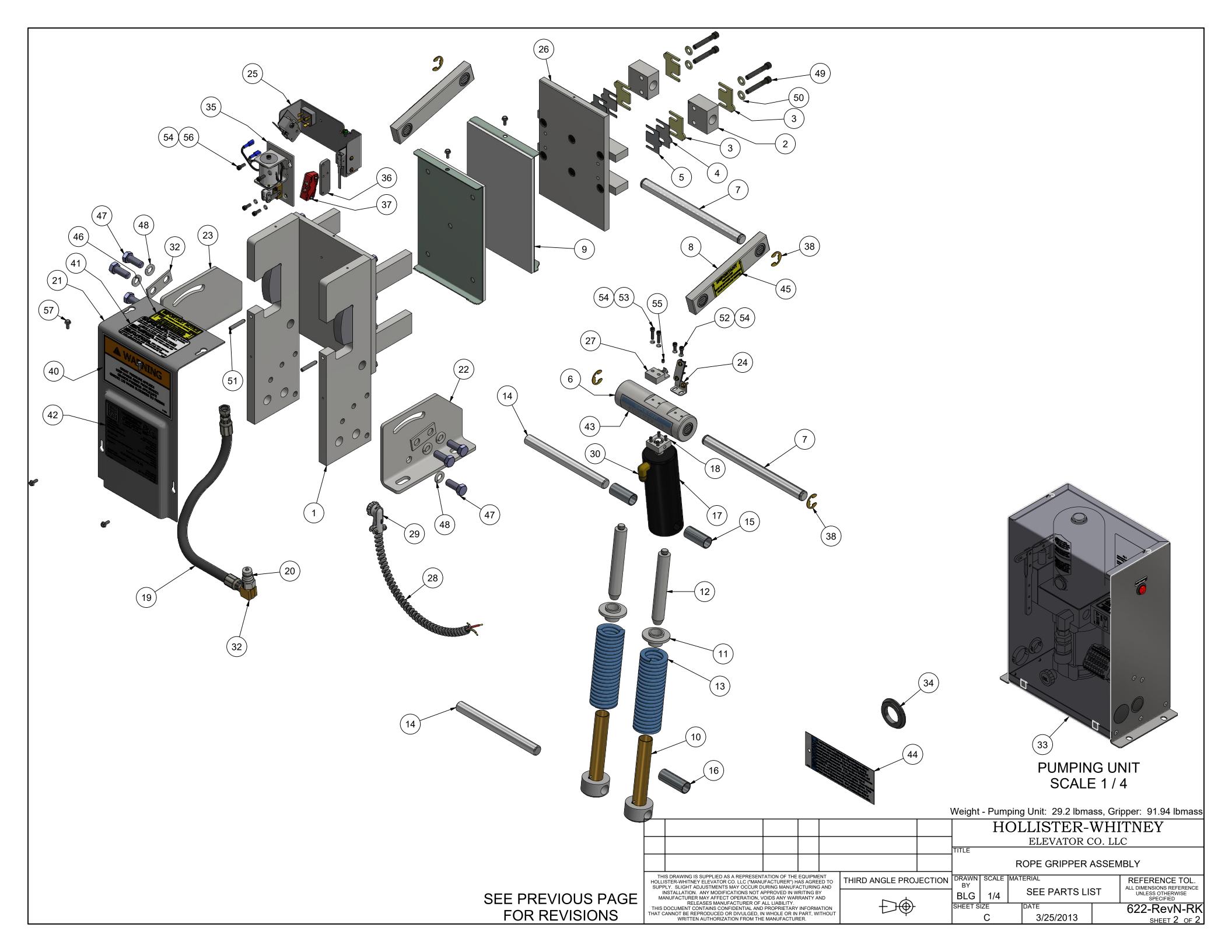
3/25/2013

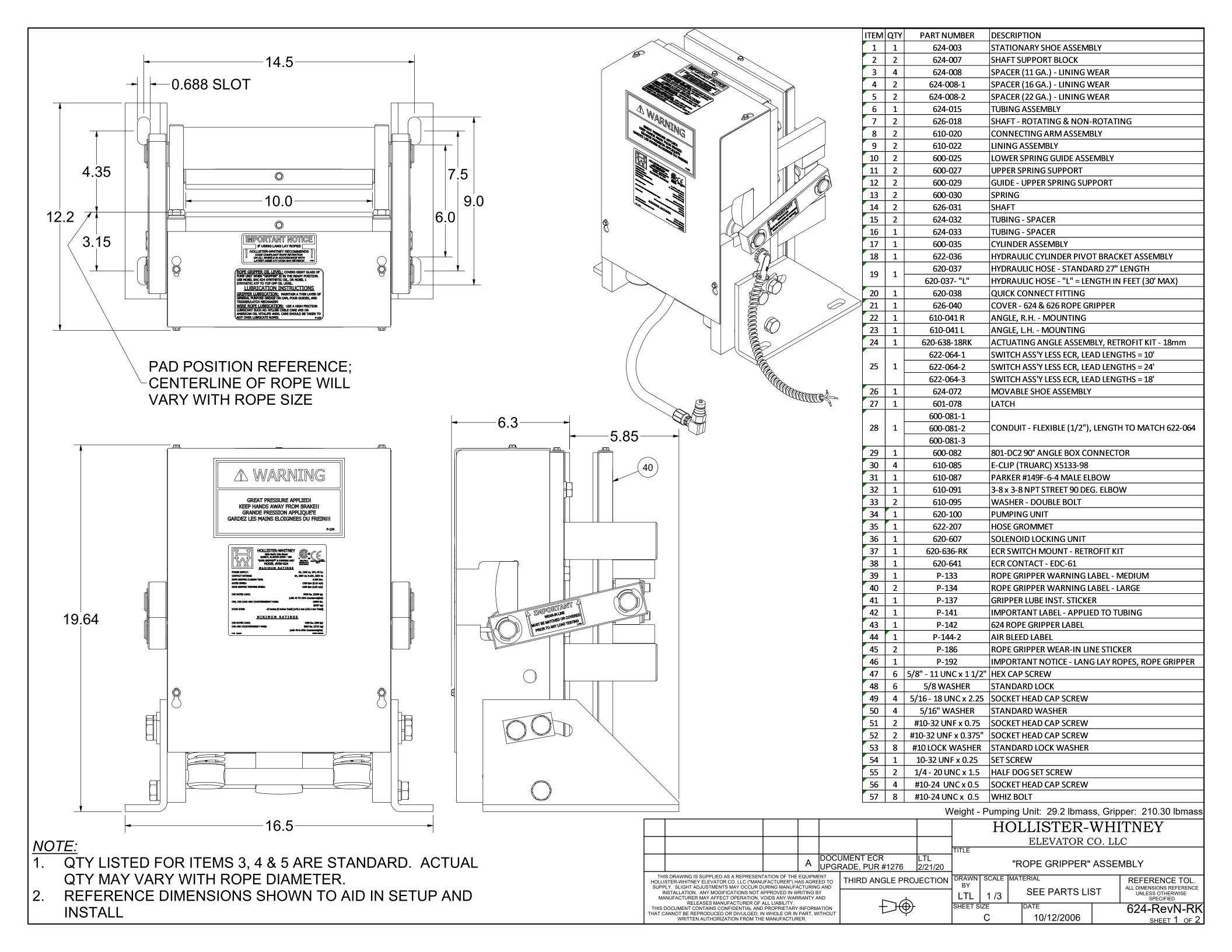
SHEET 1 OF 2

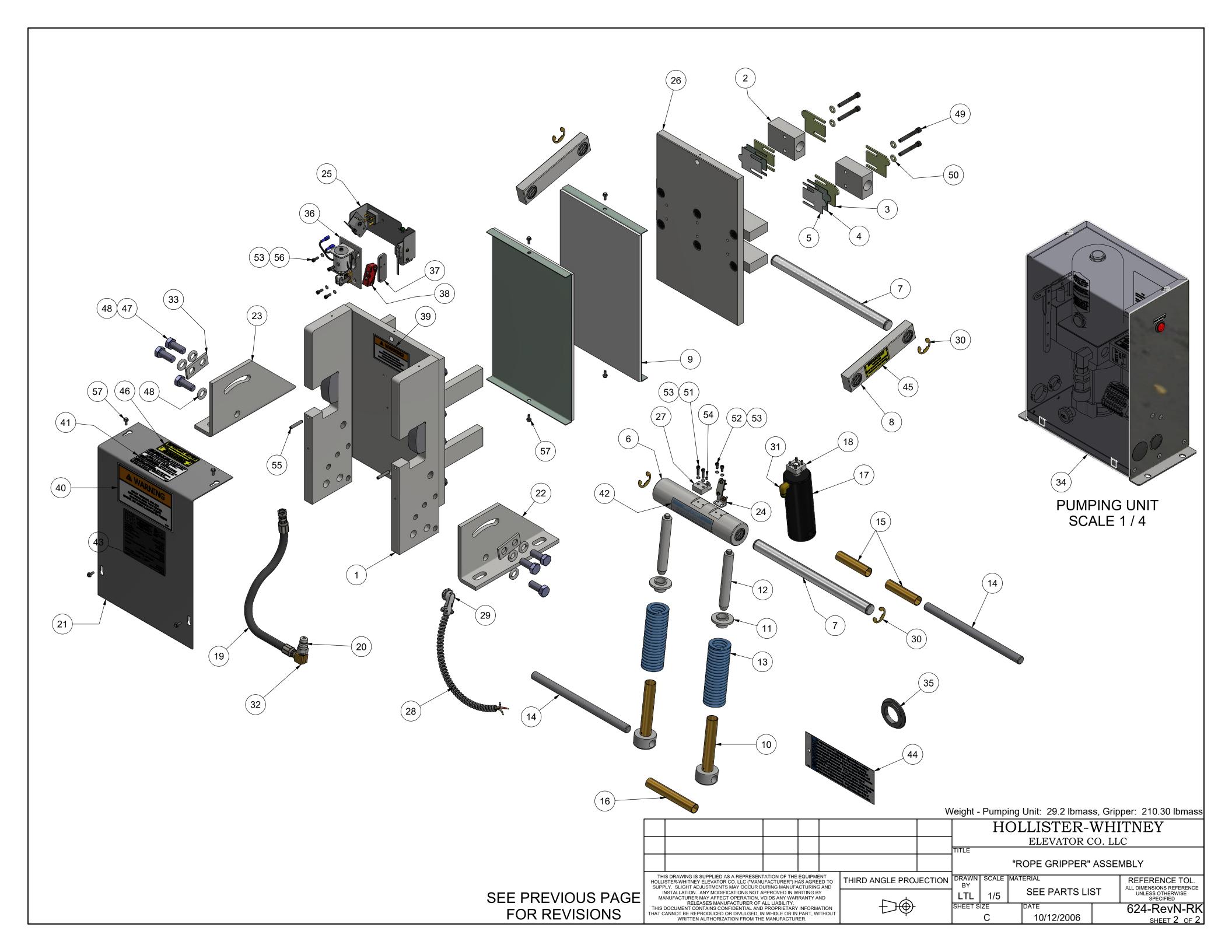
HOLLISTER-WHITNEY ELEVATOR CO. LLC DOCUMENT ECR **ROPE GRIPPER ASSEMBLY** Α UPGRADE, PUR #1276 2/21/20 DRAWN SCALE BY THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND REFERENCE TOL. ALL DIMENSIONS REFERENCE THIRD ANGLE PROJECTION SEE PARTS LIST INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY. THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER. BLG | 1/2.5 UNLESS OTHERWISE SPECIFIED \bigcirc SHEET SIZE 622-RevN-RK

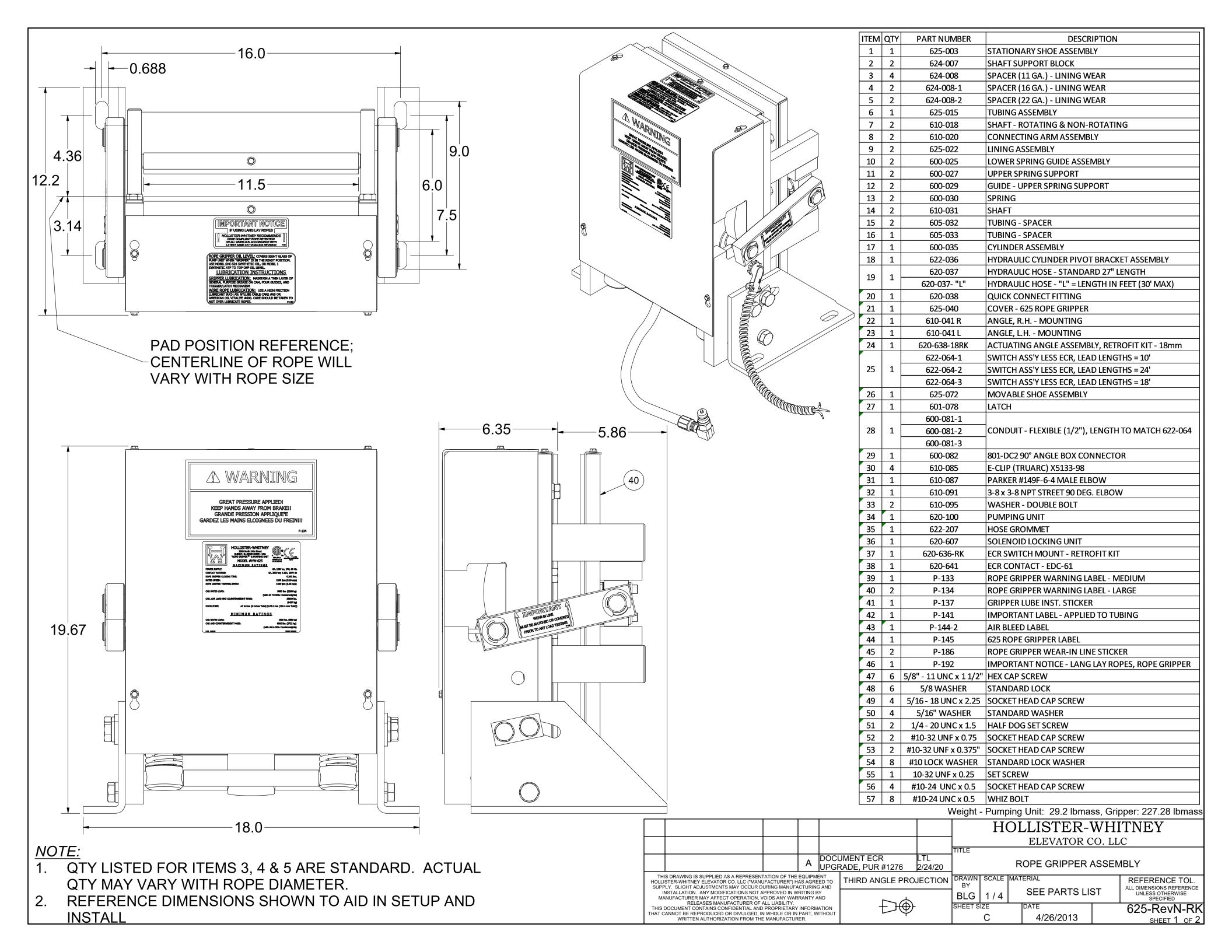
NOTE:

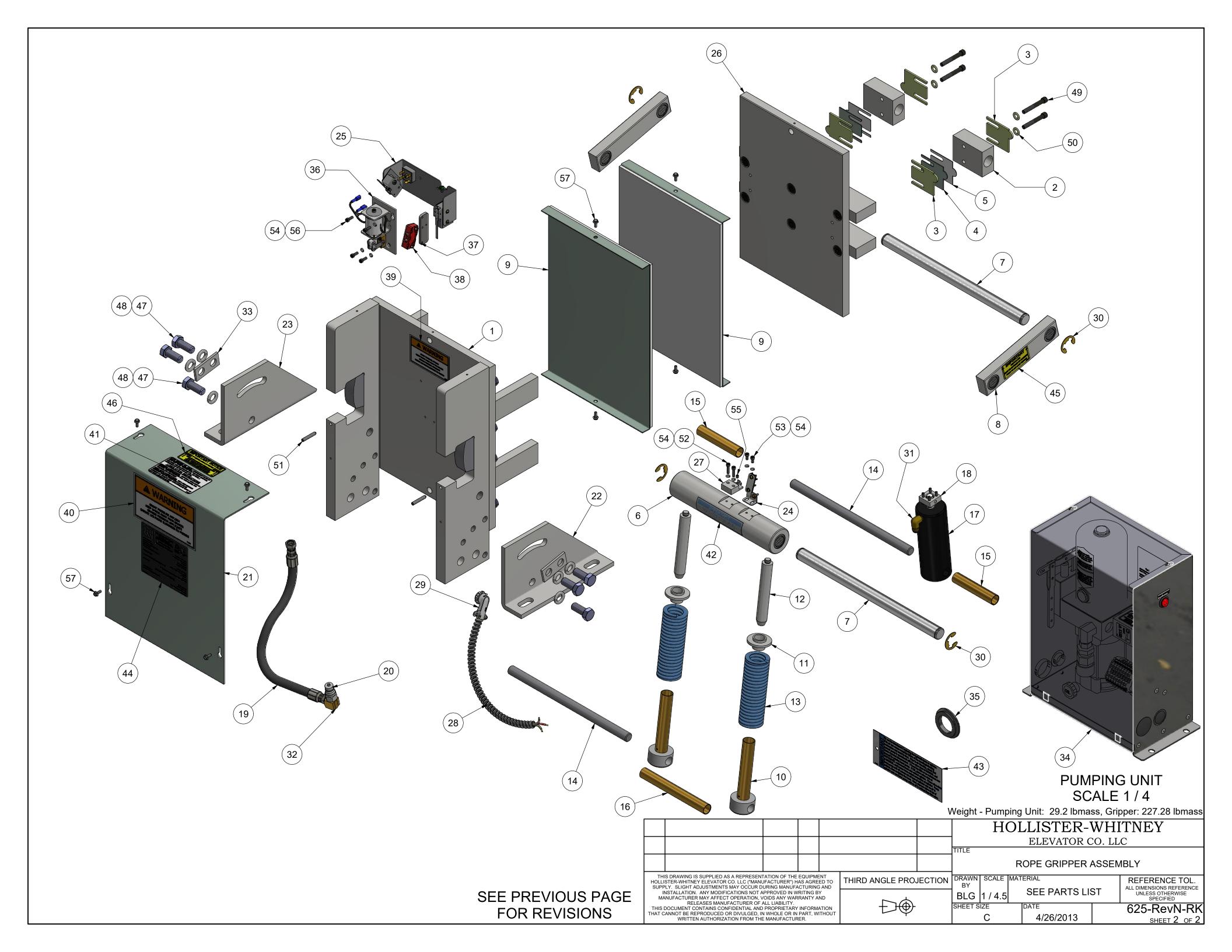
- QTY LISTED FOR ITEMS 3, 4 & 5 ARE STANDARD. ACTUAL QTY MAY VARY WITH ROPE DIAMETER.
- 2. REFERENCE DIMENSIONS SHOWN TO AID IN SETUP AND **INSTALL**



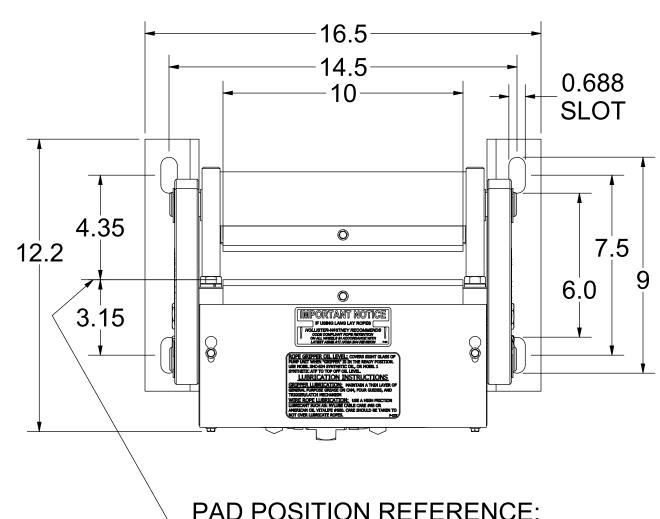




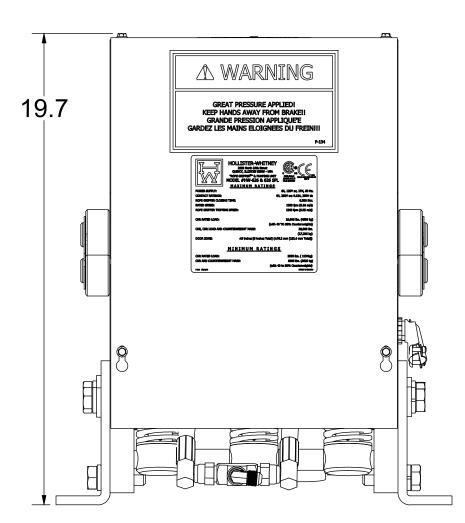


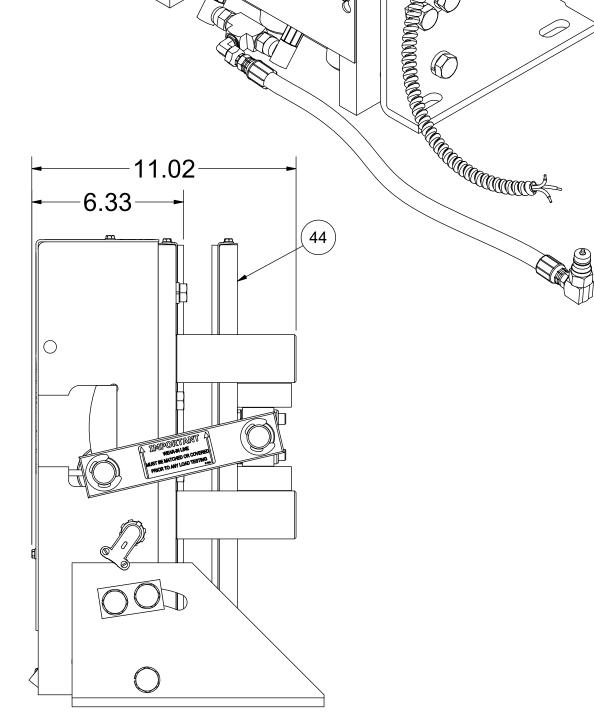


	QTY	PART NUMBER	DESCRIPTION
1	1	626-003	STATIONARY SHOE ASSEMBLY
2	2	624-007	SHAFT SUPPORT BLOCK
3	1	626-007	SHAFT SUPPORT BLOCK
4	6	624-008	SPACER (11 GA.) - LINING WEAR
5	3	624-008-1	SPACER (16 GA.) - LINING WEAR
6	3	624-008-2	SPACER (22 GA.) - LINING WEAR
7	1	626-015	TUBING ASSEMBLY
8	2	626-018	SHAFT - ROTATING & NON-ROTATING
9	2	610-020	CONNECTING ARM ASSEMBLY
10	2	610-022	LINING ASSEMBLY
11	3	600-025	LOWER SPRING GUIDE ASSEMBLY
12	3	600-027	UPPER SPRING SUPPORT
13	3	600-029	GUIDE - UPPER SPRING SUPPORT
14	3	600-030	SPRING
15	2	626-031	SHAFT
16	3	626-032	TUBING - SPACER
17	2	626-033	TUBING - SPACER
18	2	610-035	610-035 CYLINDER ASSEMBLY
19	2	622-036	HYDRAULIC CYLINDER PIVOT BRACKET ASSEMBLY
		620-037	HYDRAULIC HOSE - STANDARD 27" LENGTH
20	1	620-037- "L"	HYDRAULIC HOSE - "L" = LENGTH IN FEET (30' MAX)
21	1	620-038	QUICK CONNECT FITTING
22	1	626-040	COVER - 624 & 626 ROPE GRIPPER
23	1	610-041 R	ANGLE, R.H MOUNTING
24	1	610-041 L	ANGLE, L.H MOUNTING
25	1	620-638-18RK	ACTUATING ANGLE ASSEMBLY, RETROFIT KIT - 18mm
23		622-064-1	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 10'
26	1	622-064-2	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 24'
20		622-064-3	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 24
27	1	622-064-3	MOVABLE SHOE ASSEMBLY
28	1	601-078	LATCH
20			LATCH
29	1	600-081-1	CONDUIT FLEVIRLE (1/3") LENCTLLTO MATCH C32 OC
29		600-081-2	CONDUIT - FLEXIBLE (1/2"), LENGTH TO MATCH 622-06
20	1	600-081-3	201 DC2 00° ANGLE DOV CONNECTOR
30	1	600-082	801-DC2 90° ANGLE BOX CONNECTOR
31	4	610-085	E-CLIP (TRUARC) X5133-98
32	1	610-086	3/8" TEE
33	2	610-087	PARKER #149F-6-4 MALE ELBOW
34	1	610-088	BRASS ELBOW, #149F-6-6, 45°FH 5/8"-18 x 3/8 NPTF18
35	1	610-091	3-8 x 3-8 NPT STREET 90 DEG. ELBOW
36	2	626-092	HOSE ASSEMBLY
37	2	610-095	WASHER - DOUBLE BOLT
38	1	620-100	PUMPING UNIT
39	1	622-207	HOSE GROMMET
	1		•
40		620-607	SOLENOID LOCKING UNIT
41	1	620-636-RK	ECR SWITCH MOUNT - RETROFIT KIT
_	1	620-636-RK 620-641	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61
41	1 1 1	620-636-RK	ECR SWITCH MOUNT - RETROFIT KIT
41 42	1	620-636-RK 620-641	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61
41 42 43	1 1 1	620-636-RK 620-641 P-133	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM
41 42 43 44	1 1 1 2	620-636-RK 620-641 P-133 P-134	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE
41 42 43 44 45	1 1 2 1	620-636-RK 620-641 P-133 P-134 P-137	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER
41 42 43 44 45 46	1 1 2 1	620-636-RK 620-641 P-133 P-134 P-137 P-140	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL
41 42 43 44 45 46 47	1 1 2 1 1	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING
41 42 43 44 45 46 47 48	1 1 2 1 1 1	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER
41 42 43 44 45 46 47 48 49	1 1 2 1 1 1 1 2	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER
41 42 43 44 45 46 47 48 49 50	1 1 2 1 1 1 2 1	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPEI
41 42 43 44 45 46 47 48 49 50 51	1 1 2 1 1 1 2 1 2 1 6	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPEI HEX CAP SCREW
41 42 43 44 45 46 47 48 49 50 51 52	1 1 2 1 1 1 2 1 2 1 6 6	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPEI HEX CAP SCREW STANDARD LOCK
41 42 43 44 45 46 47 48 49 50 51 52 53	1 1 2 1 1 1 2 1 6 6 6	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER 5/16 - 18 UNC x 2.25 5/16" WASHER	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPER HEX CAP SCREW STANDARD LOCK SOCKET HEAD CAP SCREW STANDARD WASHER
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	1 1 2 1 1 1 2 1 6 6 6 6	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER 5/16 - 18 UNC x 2.25 5/16" WASHER 1/4 - 20 UNC x 1.5	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPER HEX CAP SCREW STANDARD LOCK SOCKET HEAD CAP SCREW STANDARD WASHER HALF DOG SET SCREW
41 42 43 45 46 47 48 49 50 51 52 53 54 55 56	1 1 2 1 1 1 2 1 6 6 6 6 2 2	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER 5/16 - 18 UNC x 2.25 5/16" WASHER 1/4 - 20 UNC x 1.5 #10-32 UNF x 0.75	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPEI HEX CAP SCREW STANDARD LOCK SOCKET HEAD CAP SCREW STANDARD WASHER HALF DOG SET SCREW SOCKET HEAD CAP SCREW
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	1 1 2 1 1 1 2 1 6 6 6 6 2 2	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER 5/16 - 18 UNC x 2.25 5/16" WASHER 1/4 - 20 UNC x 1.5 #10-32 UNF x 0.375"	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPER HEX CAP SCREW STANDARD LOCK SOCKET HEAD CAP SCREW STANDARD WASHER HALF DOG SET SCREW SOCKET HEAD CAP SCREW SOCKET HEAD CAP SCREW
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	1 1 2 1 1 1 2 1 6 6 6 6 2 2 2 8	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER 5/16 - 18 UNC x 2.25 5/16" WASHER 1/4 - 20 UNC x 1.5 #10-32 UNF x 0.375" #10 LOCK WASHER	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPER HEX CAP SCREW STANDARD LOCK SOCKET HEAD CAP SCREW SOCKET HEAD CAP SCREW
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	1 1 2 1 1 1 2 1 6 6 6 6 2 2	620-636-RK 620-641 P-133 P-134 P-137 P-140 P-141 P-144-2 P-186 P-192 5/8" - 11 UNC x 2" 5/8 WASHER 5/16 - 18 UNC x 2.25 5/16" WASHER 1/4 - 20 UNC x 1.5 #10-32 UNF x 0.375"	ECR SWITCH MOUNT - RETROFIT KIT ECR CONTACT - EDC-61 ROPE GRIPPER WARNING LABEL - MEDIUM ROPE GRIPPER WARNING LABEL - LARGE GRIPPER LUBE INST. STICKER 626 & 626SPL ROPE GRIPPER LABEL IMPORTANT LABEL - APPLIED TO TUBING AIR BLEED LABEL ROPE GRIPPER WEAR-IN LINE STICKER IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPER HEX CAP SCREW STANDARD LOCK SOCKET HEAD CAP SCREW STANDARD WASHER HALF DOG SET SCREW SOCKET HEAD CAP SCREW SOCKET HEAD CAP SCREW



PAD POSITION REFERENCE;
-CENTERLINE OF ROPE WILL
VARY WITH ROPE SIZE



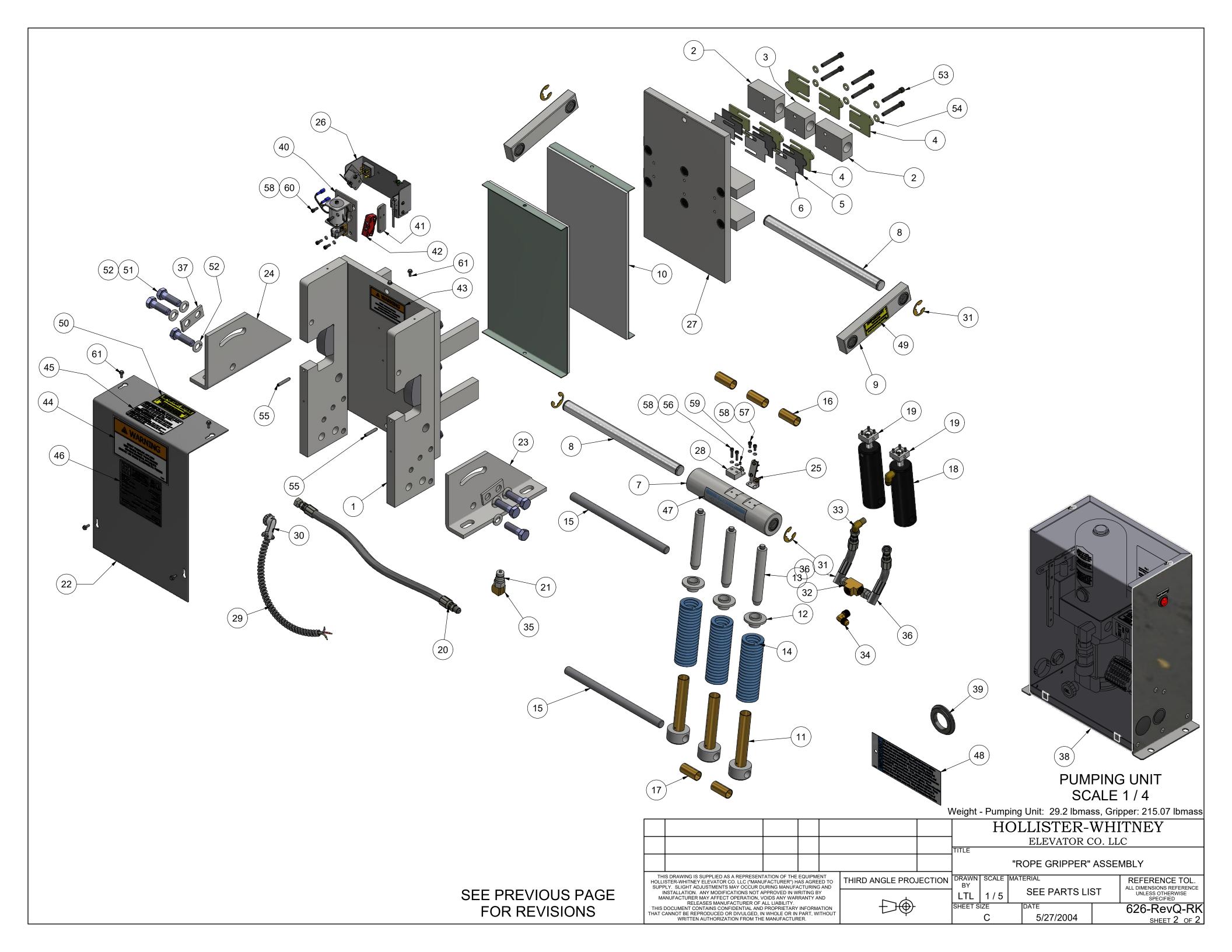


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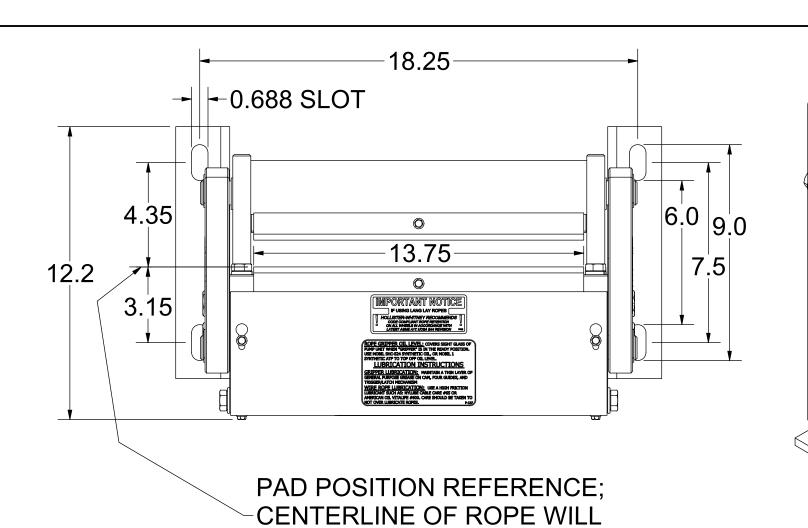
- 1. QTY LISTED FOR ITEMS 4, 5, & 6 ARE STANDARD. ACTUAL QTY MAY VARY WITH ROPE DIAMETER.
- 2. REFERENCE DIMENSIONS SHOWN TO AID IN SETUP AND INSTALL

Weight - Pumping Unit: 29.2 lbmass, Gripper: 215.07 lbmass HOLLISTER-WHITNEY ELEVATOR CO. LLC DOCUMENT ECR "ROPE GRIPPER" ASSEMBLY Α UPGRADE, PUR #1276 2/24/20 DRAWN SCALE). THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND THIRD ANGLE PROJECTION REFERENCE TOL.
ALL DIMENSIONS REFERENCE SEE PARTS LIST INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.

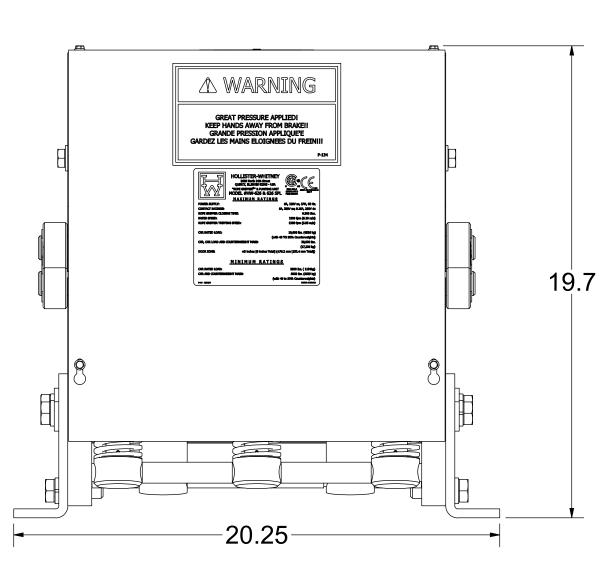
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT UNLESS OTHERWISE SPECIFIED LTL | 1/4 \bigcirc 626-RevQ-RK SHEET SIZE 5/27/2004 <u>SHEE</u>T 1 OF 2 WRITTEN AUTHORIZATION FROM THE MANUFACTURER.

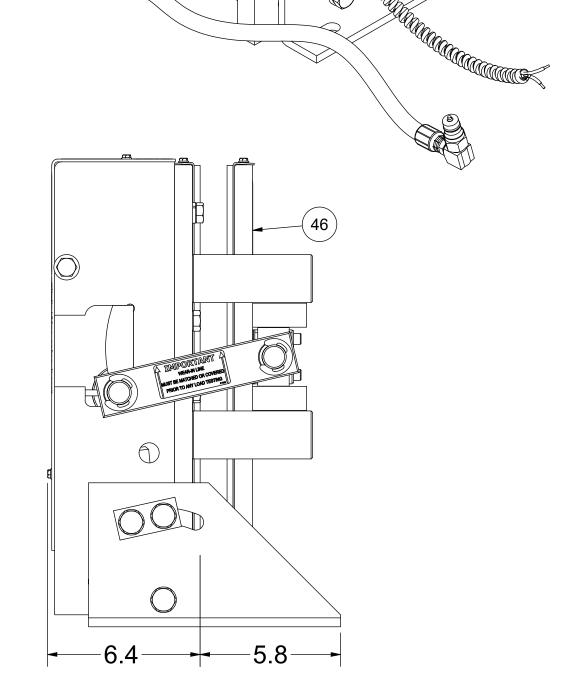


ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	626-003-SPL	STATIONARY SHOE ASSEMBLY
2	2	624-007	SHAFT SUPPORT BLOCK
3	1	626-007	SHAFT SUPPORT BLOCK
4	6	624-008	SPACER (11 GA.) - LINING WEAR
5	3	624-008-1	SPACER (16 GA.) - LINING WEAR
6	3	624-008-2	SPACER (22 GA.) - LINING WEAR
7	1	626-015-SPL	TUBING ASSEMBLY
8	2	626-018-SPL	SHAFT - ROTATING & NON-ROTATING
9	2	610-020	CONNECTING ARM ASSEMBLY
10	2	610-022-SPL	LINING ASSEMBLY
11	3	600-025	LOWER SPRING GUIDE ASSEMBLY
12	3	600-027	UPPER SPRING SUPPORT
13	3	600-029	GUIDE - UPPER SPRING SUPPORT
14	3	600-030	SPRING
15	2	626-031-SPL	SHAFT
16	2	601-032	TUBING - SPACER
17	1	626-032-SPL	TUBING - SPACER
18	2	626-033-SPL	TUBING - SPACER
19	2	610-035	610-035 CYLINDER ASSEMBLY
20	2	622-036	HYDRAULIC CYLINDER PIVOT BRACKET ASSEMBLY
		622-036	HYDRAULIC HOSE - STANDARD 27" LENGTH
21	1	620-037 620-037- "L"	HYDRAULIC HOSE - STANDARD 27 LENGTH HYDRAULIC HOSE - "L" = LENGTH IN FEET (30' MAX)
22	1	620-037- L 620-038	` '
23	1	620-038 626-040-SPL	QUICK CONNECT FITTING COVER - ROPE GRIPPER
_			
24	1	610-041 R	ANGLE, R.H MOUNTING
25	1	610-041 L	ANGLE, L.H MOUNTING
26	1	620-638-18RK	ACTUATING ANGLE ASSEMBLY, RETROFIT KIT - 18mm
		622-064-1	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 10'
27	1	622-064-2	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 24'
,		622-064-3	SWITCH ASS'Y LESS ECR, LEAD LENGTHS = 18'
28	1	626-072-SPL	MOVABLE SHOE ASSEMBLY
29	1	601-078	LATCH
		600-081-1	
30	1	600-081-2	CONDUIT - FLEXIBLE (1/2"), LENGTH TO MATCH 622-06
		600-081-3	
31	1	600-082	801-DC2 90° ANGLE BOX CONNECTOR
32	4	610-085	E-CLIP (TRUARC) X5133-98
33	1	610-086	3/8 NPT TEE
34	2	610-087	PARKER #149F-6-4 MALE ELBOW
35	1	610-088	BRASS ELBOW, #149F-6-6, 45°FH 5/8"-18 x 3/8 NPTF18
36	2	626-092	HOSE ASSEMBLY
37	1	610-091	3-8 x 3-8 NPT STREET 90 DEG. ELBOW
38	2	610-095	WASHER - DOUBLE BOLT
39	1	626-097 SPL	BAR - SUPPORT
40	1	620-100	PUMPING UNIT
41	2	622-115	3/8 NPT EXTENSION
42	1	622-207	HOSE GROMMET
43	1	620-607	SOLENOID LOCKING UNIT
44	1	620-636-RK	ECR SWITCH MOUNT - RETROFIT KIT
45	1	620-641	ECR CONTACT - EDC-61
46	2	P-134	ROPE GRIPPER WARNING LABEL - LARGE
47	1	P-134 P-137	GRIPPER LUBE INST. STICKER
47	1	P-137 P-140	626 & 626SPL ROPE GRIPPER LABEL
48	1	P-140 P-141	IMPORTANT LABEL - APPLIED TO TUBING
50	1	P-144-2	AIR BLEED LABEL
51	2	P-186	ROPE GRIPPER WEAR-IN LINE STICKER
52	1	P-192	IMPORTANT NOTICE - LANG LAY ROPES, ROPE GRIPPE
53	6	5/8" - 11 UNC x 2"	HEX CAP SCREW
54	6	5/8 WASHER	STANDARD LOCK
55	2	1/2" - 13 UNC x 1 3/4"	
56	2	1/2" WASHER	SAE WASHER
57	6	5/16-18 UNC x 1.75	SOCKET HEAD CAP SCREW
58	6	5/16" WASHER	STANDARD WASHER
59	2	1/4 - 20 UNC x 1.5	HALF DOG SET SCREW
60	2	#10-32 UNF x 0.75	SOCKET HEAD CAP SCREW
61	2	#10-32 UNF x 0.375"	SOCKET HEAD CAP SCREW
62	1	10-32 UNF x 0.25	SET SCREW
63	4	5/16-18 UNC x 1.75	SOCKET HEAD CAP SCREW
	8	#10-24 UNC x 0.5	WHIZ BOLT
64	_		



VARY WITH ROPE SIZE





NOTE:

- 1. QTY LISTED FOR ITEMS 4, 5, & 6 ARE STANDARD. ACTUAL QTY MAY VARY WITH ROPE DIAMETER.
- 2. REFERENCE DIMENSIONS SHOWN TO AID IN SETUP AND INSTALL

Weight - Pumping Unit: 29.2 lbmass, Gripper: 259.94 lbmass

HOLLISTER-WHITNEY ELEVATOR CO. LLC DOCUMENT ECR A UPGRADE, PUR #1276 "ROPE GRIPPER" ASSEMBLY 2/24/20 DRAWN SCALE). THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND THIRD ANGLE PROJECTION REFERENCE TOL.
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