

**VENCO
VENTURO**
INDUSTRIES LLC

ET12KX
*EGAADC-0****

INSTALLATION & OWNER'S MANUAL

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ET12KX, 9/16' (EGAADC-0***) OWNER'S MANUAL

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VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
TABLE OF CONTENTS

ET12KX, 9/16'

DATE
02-27-20A

SUPERSEDES
06-07-19

SECTION
-

23479

SECTION 100

DESCRIPTION

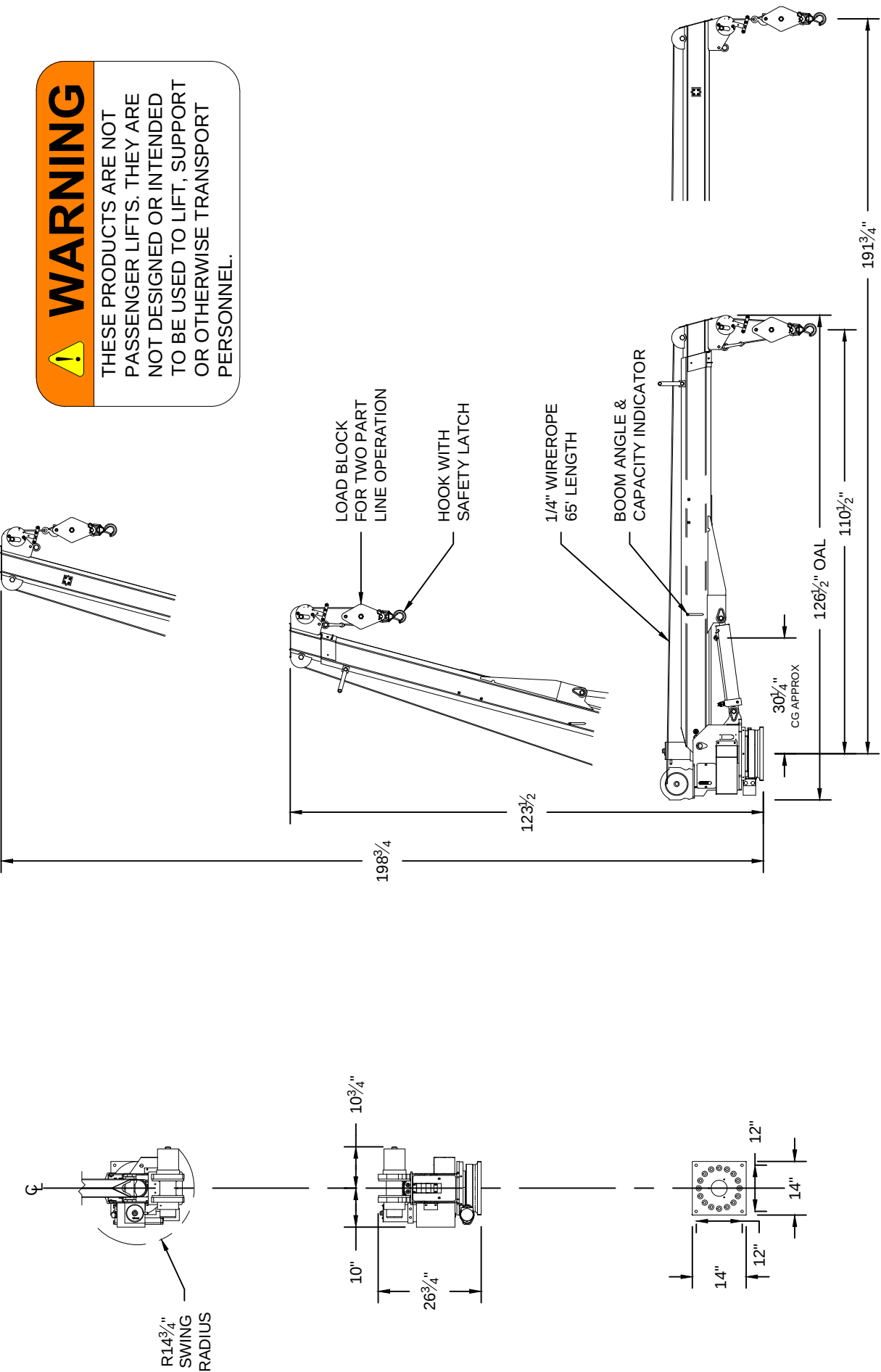
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SPECIFICATIONS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

INSTALLATION DIMENSIONS; ET12KX, 9 - 16'

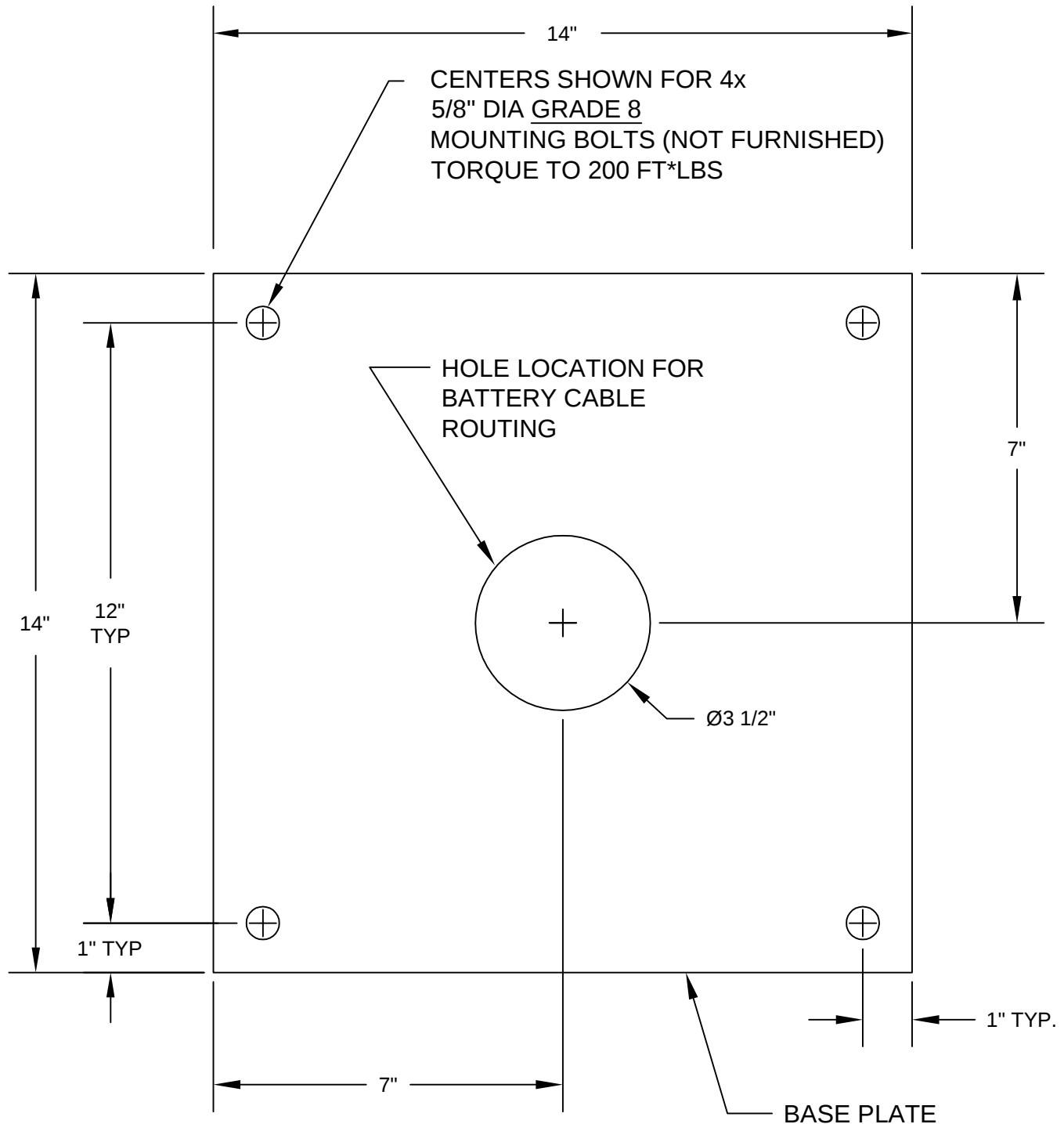


WARNING

THESE PRODUCTS ARE NOT PASSENGER LIFTS. THEY ARE NOT DESIGNED OR INTENDED TO BE USED TO LIFT, SUPPORT OR OTHERWISE TRANSPORT PERSONNEL.

TITLE	INSTALLATION DIMENSIONS		SECTION
	ET12KX, 9 - 16' BOOM		C100
VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		DATE	05-31-19
		SUPERSEDES	-
		23470	

21571 MOUNTING HOLE TEMPLATE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

21571 BASE MNTNG DIMS

ET8/12/16/18 CRANES

DATE

10-22-14F

SUPERSEDES

12-20-13E

SECTION

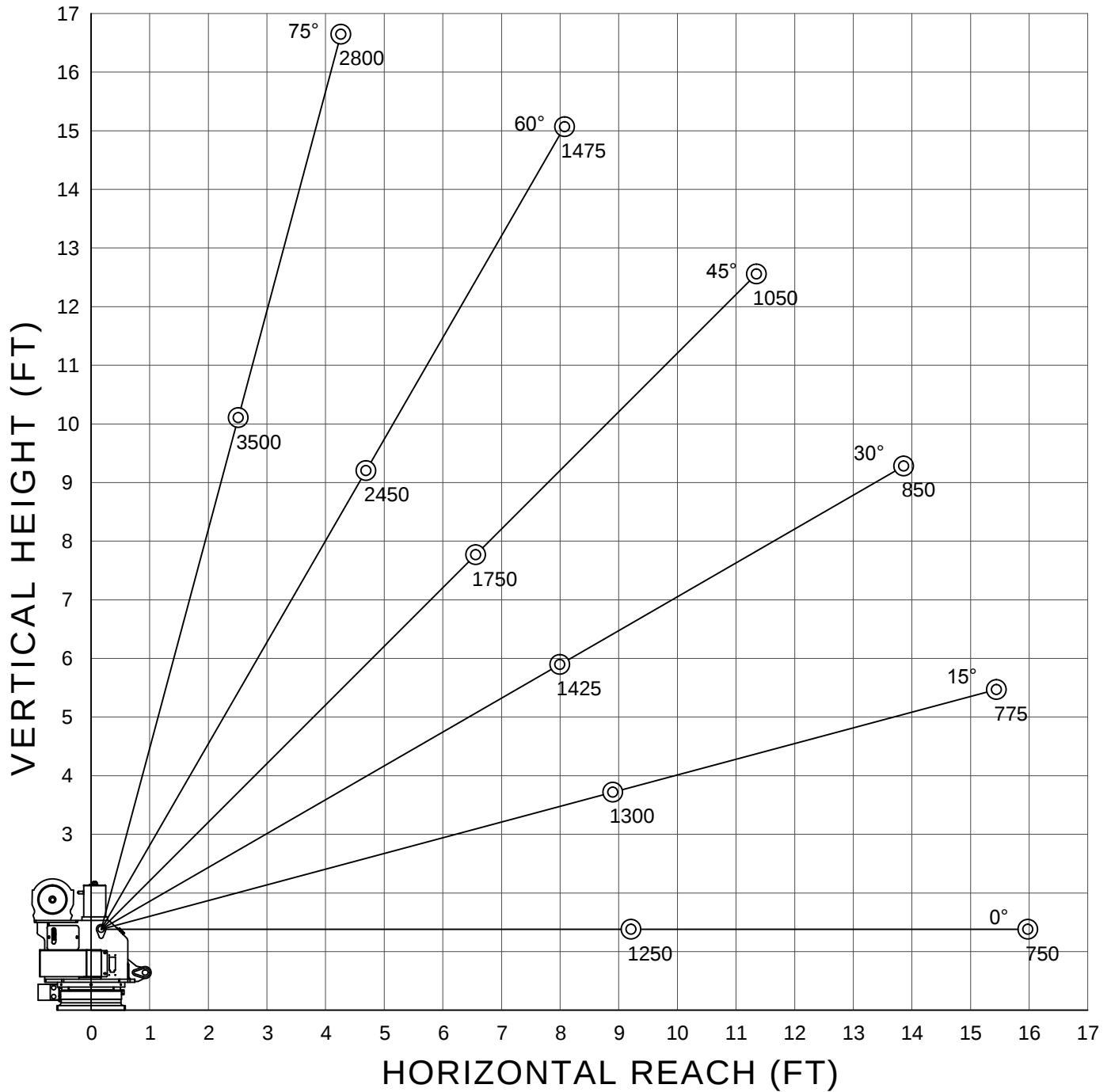
C100

21592

MAXIMUM LOAD CAPACITY

ET12KX(P), 9 - 16' BOOM

CRANE SERIAL NUMBER: _____



WEIGHT OF LOAD HANDLING DEVICES ARE PART OF THE LOAD AND MUST BE DEDUCTED FROM THE GROSS CAPACITY.
LOAD BLOCK USAGE

1 PART LINE FOR LOADS LESS THAN 1750 LBS

2 PART LINE FOR LOADS OF 1750 AND GREATER

WEIGHT OF LOAD BLOCK = 24 LBS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAXIMUM LOAD CAPACITY

ET12KX(P), 9 - 16' BOOM

DATE
06-13-19A

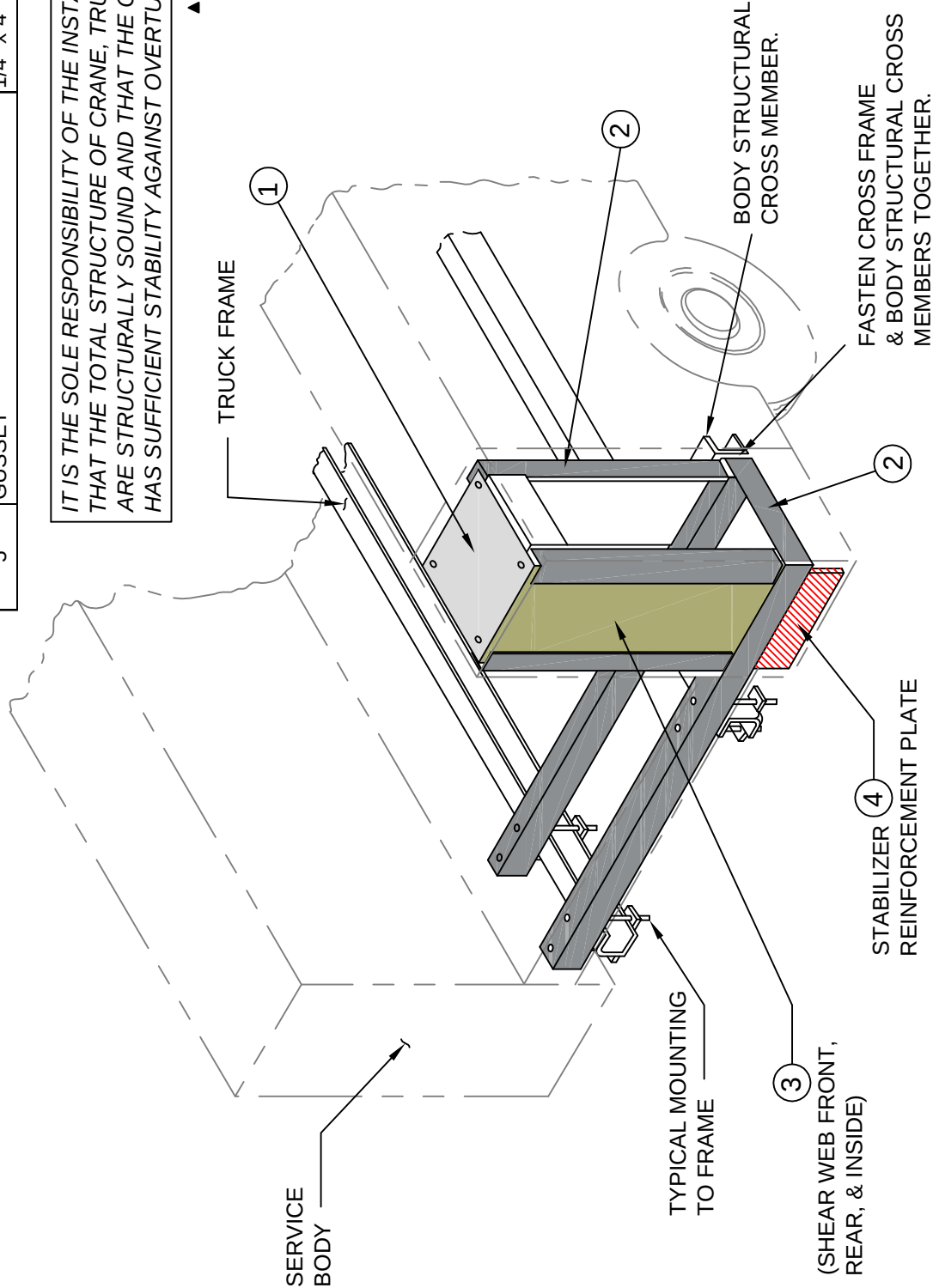
SUPERSEDES
07-30-18

SECTION
C100

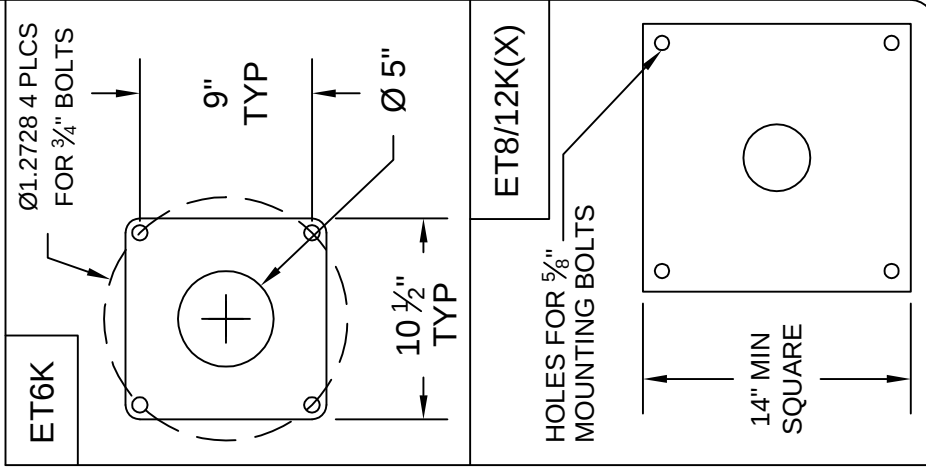
23772

ITEM NO.	DESCRIPTION	MINIMUM RECOMMENDED MATERIAL SIZE
1	TOP PLATE	STEEL PLATE
2	CORNER POST	3" x 3" x 1/4" STEEL ANGLE
3	SHEAR WEB	12 Ga.
4	STABILIZER REINFORCEMENT PLATE	3/16" THICK STEEL PLATE
5	GUSSET	1/4" x 4" H.R. STEEL (NOT SHOWN)

IT IS THE SOLE RESPONSIBILITY OF THE INSTALLER TO INSURE THAT THE TOTAL STRUCTURE OF CRANE, TRUCK, AND STABILIZERS ARE STRUCTURALLY SOUND AND THAT THE COMPLETED VEHICLE HAS SUFFICIENT STABILITY AGAINST OVERTURNING.

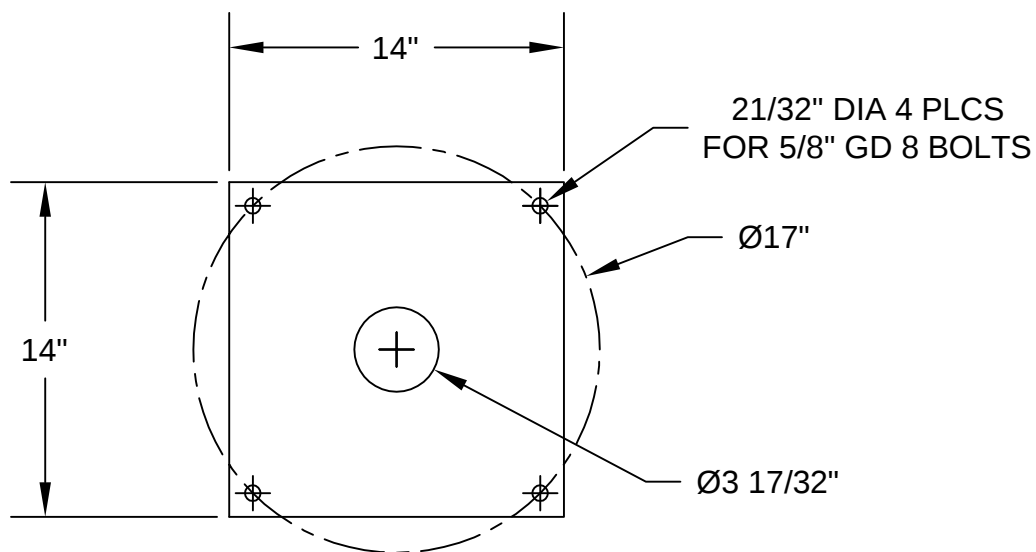
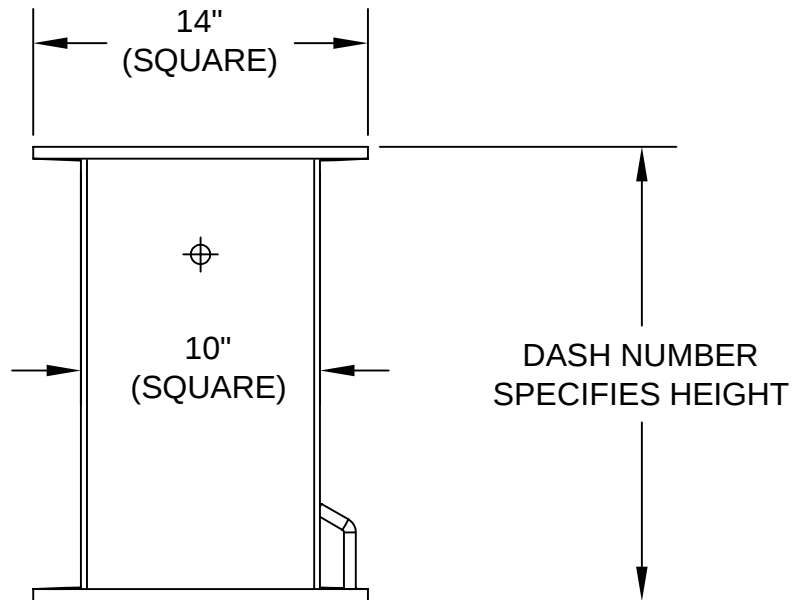


ILLUSTRATIONS NOT TO SCALE



	VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE	INSTALLATION DRAWING		DATE	01-28-15C	SECTION	C100
			ET6/8/12K(X)		SUPERSEDES	12-20-13B		16941

21571-XX MOUNTING PEDESTAL



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

21571 MNTNG PEDESTAL

DATE

03-08-19D

SECTION

C100

SUPERSEDES

11-20-14C

ET8/12 SERIES CRANES

21594

SECTION 150

SAFETY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

CRANE SAFETY AND HAZARDS

CAUTIONS

1. INSPECT VEHICLE AND CRANE, INCLUDING OPERATION, PRIOR TO USE DAILY.
2. DO NOT USE THIS EQUIPMENT EXCEPT ON FIRM LEVEL GROUND WITH CRANE MOUNTED ON FACTORY-RECOMMENDED TRUCK.
3. BEFORE OPERATING THE CRANE, REFER TO MAXIMUM LOAD (CAPACITY) CHART ON CRANE FOR OPERATING (LOAD) LIMITATIONS.
4. DO NOT OPERATE, WALK, OR STAND BENEATH BOOM OR A SUSPENDED LOAD.
5. ATTACH PENDANT CORD SUPPORT SNAP TO ATTACHMENT POINT BEFORE PLUGGING IN PENDANT, IF SO EQUIPPED.
6. UNPLUG PENDANT AND SHUT OFF MASTER DISCONNECT SWITCH WHEN CRANE IS NOT IN USE.
7. FOR TRAVEL, BOOM MUST BE IN STOWED POSITION.

DANGER

- THIS CRANE IS NOT A PASSENGER LIFT
- IT IS NOT DESIGNED OR INTENDED TO BE USED TO LIFT, SUPPORT, OR OTHERWISE TRANSPORT PERSONNEL.

YOU MUST NOT OPERATE THIS CRANE, UNLESS:

1. YOU HAVE BEEN TRAINED IN THE SAFE OPERATION OF THIS CRANE, AND
2. YOU KNOW AND FOLLOW THE SAFETY AND OPERATING RECOMMENDATIONS CONTAINED IN THE MANUFACTURER'S MANUALS, YOUR EMPLOYER'S WORK RULES, AND APPLICABLE GOVERNMENT REGULATIONS. AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.

ELECTROCUTION HAZARD

- THIS MACHINE IS NOT INSULATED.
- MAINTAIN SAFE CLEARANCES FROM ELECTRICAL LINES AND APPARATUSES.
- YOU MUST ALLOW FOR BOOM SWAY, ROCK, OR SAG, AND ELECTRICAL LINE AND LOAD-LINE SWAYING
- THIS LIFTING DEVICE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.
- YOU MUST MAINTAIN A CLEARANCE OF AT LEAST 10 FEET BETWEEN ANY PART OF THE CRANE, LOAD-LINE, OR LOAD, AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 50,000 VOLTS. REFER TO DRAWING 15394 FOR ADDITIONAL INFORMATION.
- **DEATH OR SERIOUS INJURY** WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCES.

OVERLOAD SENSING SYSTEM - STANDARD ON ALL CRANES

1. IF OVERLOADED, THE WINCH UP, BOOM DOWN, AND (OPTIONAL) BOOM OUT FUNCTIONS WILL AUTOMATICALLY, SHUT OFF TO PREVENT INCREASED OVERLOAD.
2. ON CRANES EQUIPPED WITH AN OPTIONAL OVERLOAD ALARM, IT WILL ALSO SOUND.
3. IF AN OVERLOAD OCCURS, USE THE WINCH DOWN, BOOM UP OR BOOM IN FUNCTIONS TO RELIEVE THE OVERLOAD.
4. THE OVERLOAD SENSING SYSTEM IS INOPERATIVE IF THE BOOM ELEVATION IS AT THE BOTTOM OR TOP LIMIT OF TRAVEL. TO RELIEVE THIS CONDITION, RAISE OR LOWER THE BOOM SLIGHTLY BEFORE LIFTING THE LOAD.
5. SEE MANUAL FOR TESTING THE OVERLOAD SYSTEM.

NOTICE - WARRANTY VOID IF DISCONNECTED

THE OVERLOAD SENSING SYSTEM HAS BEEN INSTALLED AS A SAFETY FEATURE TO PROTECT THE EQUIPMENT AND THE OPERATOR.

DO NOT DISCONNECT THIS SYSTEM



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

SAFETY & HAZARDS

DATE

01-29-15K

SECTION

C150

ELECTRIC CRANES

SUPERSEDES

12-20-13J

850711

CRANE SAFETY AND HAZARDS - CONT'D

OVERLOAD ALARM SYSTEM - OPTIONAL

1. OVERLOAD ALARM HORN SOUNDS IF RATED LOAD IS EXCEEDED AT ANY REACH.
2. IF ALARM SOUNDS, RAISE BOOM OR LOWER WINCH TO REMOVE OVERLOAD.
3. ALWAYS RAISE BOOM SLIGHTLY BEFORE LIFTING LOAD. WARNING SYSTEM INOPERATIVE WHEN CYLINDER IS COMPLETED BOTTOMED.
4. ALARM CAN BE TESTED BY TYING DOWN BOOM WITH WINCH CABLE AND OPERATING BOOM UP OR BY RAISING BOOM AGAINST UP LIMIT STOP.

NOTICE - WARRANTY VOID IF DISCONNECTED

THIS ALARM SYSTEM HAS BEEN INSTALLED AS A SAFETY FEATURE TO PROTECT BOTH THE EQUIPMENT AND THE OPERATOR.

DO NOT DISCONNECT THIS SYSTEM

INTENTIONALLY LEFT BLANK



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

SAFETY & HZRDS, CONT.

DATE

01-29-15

SECTION

C150

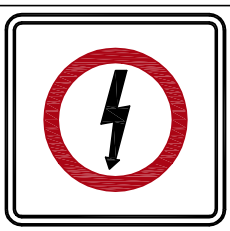
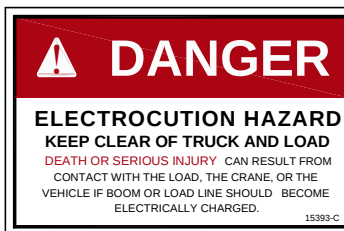
ELECTRIC CRANES

SUPERSEDES

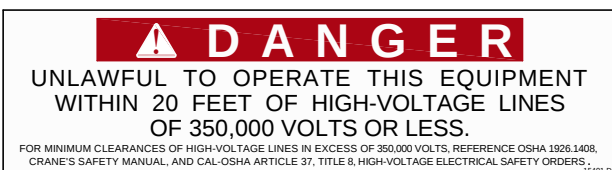
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850712

VEHICLE & CRANE MOUNTED ELECTRICAL HAZARD SIGN APPLICATION & INFORMATION



SIGN NO. 15393 DISPLAYS THE INTERNATIONAL SYMBOL FOR ELECTRICITY AND WARNS OF DANGER FROM AN ELECTRICALLY CHARGED VEHICLE, CRANE, OR LOAD. FOUR ARE RECOMMENDED (ONE FOR EACH SIDE AND ONE FOR EACH END OF VEHICLE) TO BE APPLIED IN LOCATIONS WHICH ARE READILY VISIBLE TO GROUND PERSONNEL.



SIGN NO. 15401 PROVIDES ADDITIONAL WARNING OF LEGAL REQUIREMENTS WHEN OPERATING NEAR HIGH VOLTAGE LINES. THIS SIGN IS PLACED ON THE CONTROL PENDANT SIDE OF BOOM.

Table A - Minimum Clearance Distances

Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet) *
Up to 50.....	10
over 50 - 200.....	15
over 200 - 350.....	20
over 350 - 500.....	25
over 500 - 750.....	35
over 750 - 1000.....	45
Over 1000.....	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

Table T - Minimum Clearance Distances While Traveling With No Load

Voltage (nominal, kV, alternating current)	While traveling - minimum clearance distance (feet) *
0 - 0.75.....	4
over 0.75 - 50.....	6
over 50 - 345.....	10
over 345 - 750.....	16
over 750 - 1000.....	20
Over 1000.....	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

* NOTE: ENVIRONMENTAL CONDITIONS SUCH AS FOG, SMOKE, OR PRECIPITATION MAY REQUIRE INCREASED CLEARANCES



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
HAZARD APPS & INFO	02-21-14M	C150
ET/HT CRANES	SUPERSEDES 12-20-13L	15394

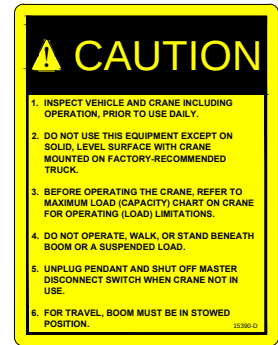
DECAL #: 15390

DESCRIPTION: CAUTION, INSPECT VEHICLE & CRANE...

PURPOSE: TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



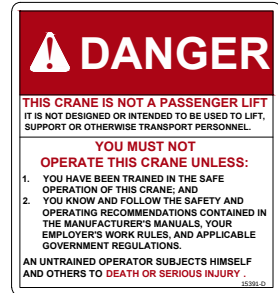
DECAL #: 15391

DESCRIPTION: DANGER, NOT A PASSENGER LIFT

PURPOSE: TO INFORM OPERATOR NOT TO LIFT, SUPPORT, OR TRANSPORT PERSONNEL, AND TO ENSURE OPERATOR IS ADEQUATELY TRAINED.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



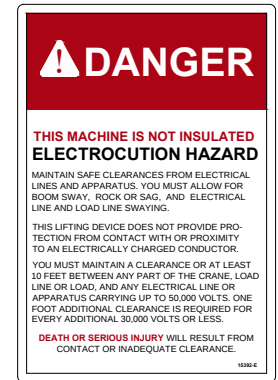
DECAL #: 15392

DESCRIPTION: DANGER, ELECTROCUTION HAZARD, MACHINE (CRANE)

PURPOSE: TO INFORM OPERATOR THAT MACHINE (CRANE) REPRESENTS AN ELECTROCUTION HAZARD SHOULD IT COME CLOSE TO OR IN CONTACT WITH AN ELECTRICAL VOLTAGE SOURCE.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



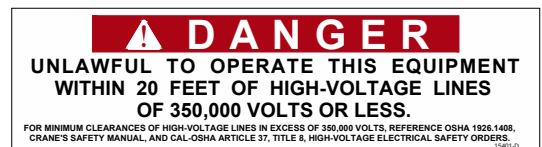
DECAL #: 15401

DESCRIPTION: DANGER, UNLAWFUL TO OPERATE

PURPOSE: TO INFORM OPERATOR OF PROPER OPERATION IN VICINITY OF ELECTRICAL LINES.

QUANTITY: 1

PLACEMENT: RING COVER OR SIDE OF CRANE



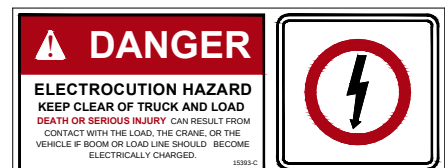
DECAL #: 15393

DESCRIPTION: DANGER, ELECTROCUTION HAZARD, VEHICLE (TRUCK)

PURPOSE: WARNS OF DANGER FROM ELECTRICALLY CHARGED VEHICLE, CRANE, OR LOAD.

QUANTITY: 4

PLACEMENT: EACH SIDE & EACH END OF VEHICLE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
SAFETY DECALS

VENTURO CRANES

DATE
04-29-16E

SUPERSEDES
10-24-13D

SECTION
C150

21353

PART NO.: 14473-2

DECAL: GREASE

FUNCTION: To show the operator where to apply grease.

QUANTITY: Varies

PLACEMENT: Near grease fittings.



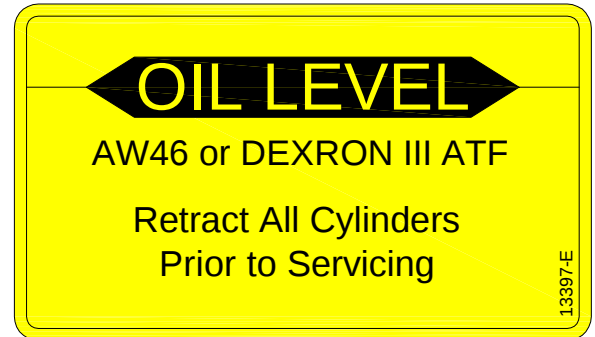
PART NO.: 13397

DECAL: OIL LEVEL

FUNCTION: To inform the operator of proper oil level to maintain.

QUANTITY: 1

PLACEMENT: Side of hydraulic power unit.



PART NO.: 15398

DECAL: UNPLUG REMOTE CONTROL

FUNCTION: To inform the operator to unplug remote control when not in use.

QUANTITY: 1

PLACEMENT: Near pendant socket.



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
DECALS
ET CRANES

DATE
12-23-13D
SUPERSEDES
04-19-13C

SECTION
C150
21354

PART NO.: 27007-04a (ET12)

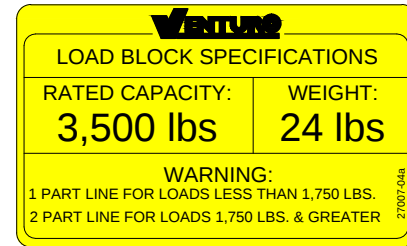
DECAL: LOAD BLOCK CAPACITY DECAL

FUNCTION: To show the capacity of load block.

QUANTITY: 2

PLACEMENT: Each side of load block.

27007-04a ET12K(X)



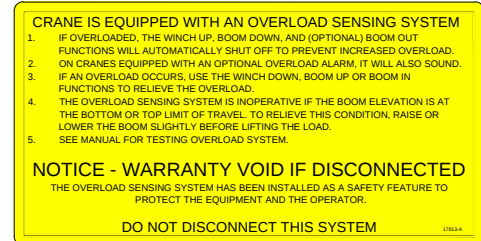
PART NO.: 17813

DECAL: OVERLOAD SENSING SYSTEM DECAL

FUNCTION: To advise operator of overload sensing system.

QUANTITY: 1

PLACEMENT: Location may vary.



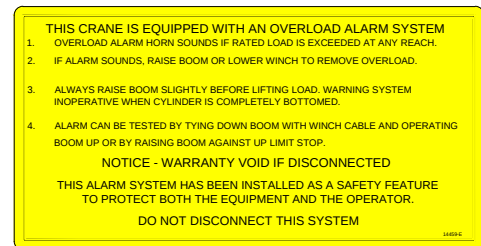
PART NO.: 14459 (WITH OPTIONAL ALARM)

DECAL: OVERLOAD ALARM SYSTEM DECAL

FUNCTION: To advise operator of overload alarm system.

QUANTITY: 1

PLACEMENT: Location may vary.



PART NO.: 28065 (RIGHT) & 23184 (LEFT)

DECAL: MANUAL OVERRIDE DECAL (ET8/12KXP)

FUNCTION: To show the manual override ports.

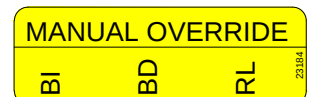
QUANTITY: 1

PLACEMENT: Right & Left side of housing.

2 8 0 6 5



2 3 1 8 4



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
ADDITIONAL DECALS

ET12KX 9-16'

DATE
06-05-19

SUPERSEDES
-

SECTION
C150

23473

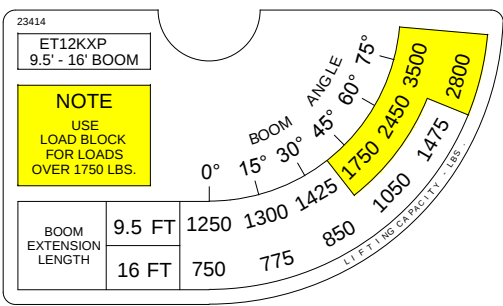
PART NO.: 23414 (LEFT)

DECAL: CRANE CAPACITY

FUNCTION: To show the operator the operating capacities of crane.

QUANTITY: 1

PLACEMENT: One on left side of boom.



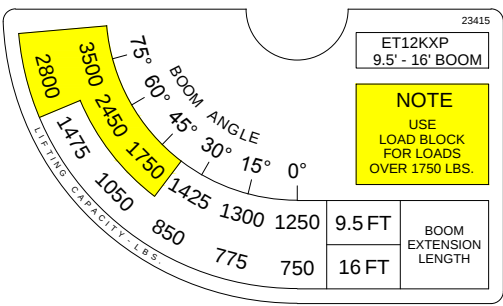
PART NO.: 23415 (RIGHT)

DECAL: CRANE CAPACITY

FUNCTION: To show the operator the operating capacities of crane.

QUANTITY: 1

PLACEMENT: One on right side of boom.



PART NO.: 19788-1

DECAL: PROPORTIONAL Decal (ET12KXP)

FUNCTION: To show the crane has proportional feature.

QUANTITY: 2

PLACEMENT: One on each side of boom.

PROPORTIONAL CONTROL

PART NO.: 23416

DECAL: MODEL NUMBER (ET12KXP)

FUNCTION: To show the model of the crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.

ET12KXP

PART NO.: 21578

DECAL: MODEL NUMBER (ET12KX)

FUNCTION: To show model of crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.

ET12KX



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
MODEL/CAPCTY DECALS
ET12KX(P), 9-16'

DATE
06-13-19A
SUPERSEDES
07-30-18

SECTION
C150
23774

SECTION 200

INSTALLATION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

!! IMPORTANT !!

ADEQUATE WIRING IMPERATIVE FOR PROPER OPERATION

1. PROPER GROUND PATH - SEE DWG 15660
2. CURRENT DRAW IS SEVERAL HUNDRED AMPERES - ADEQUATE WIRE SIZE AND BATTERY CAPACITY IS ABSOLUTELY ESSENTIAL (SEE CHART BELOW).

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE										
MODEL	TOTAL LENGTH OF CABLE (FT) *								▲ 12 VOLT AUXILIARY BATTERY REQUIREMENTS	
	0-20	21-25	26-30	31-40	41-50	51-60	61-70	71-80	CCA (A) **	RC (MIN) ***
▲ CE1500 CE6K CT2000 CT2003/4/5 DT7K	#4	#4	#2	#2	#1	#0	#0	#00	350	100
ET5500MPB ET5500R ET6KMPB ET6KR ET6K ET8K ET10K ET12K	#2	#2	#1	#0	#00	NOT RECOMMENDED			450	100
ET8KX ET10KX ET12KX ▲ ET12KXP	#2	#2	#1	#0	#00	NOT RECOMMENDED			550	150
ET18K(X) ET25K(X) ET30KX ET36KX	SEE DRAWING 15660 FOR CABLE AND BATTERY REQUIREMENTS									

* INCLUDES GROUND CABLE

** CCA = COLD CRANKING AMPS AT 0° (F).

*** RC = RESERVE CAPACITY IN MINUTES AT 25 AMPS AND 80° (F).
THE RC RATING IS A MEASURE OF THE PERIOD OF TIME THE BATTERY CAN SUPPLY A GIVEN CURRENT WITHOUT RECHARGING.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

CABLE & BATTERY

DATE

07-30-18X

SECTION

C200

ELECTRIC CRANES

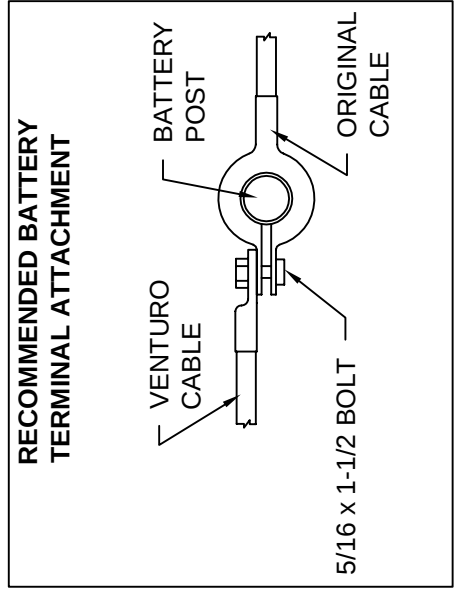
SUPERSEDES

09-27-17W

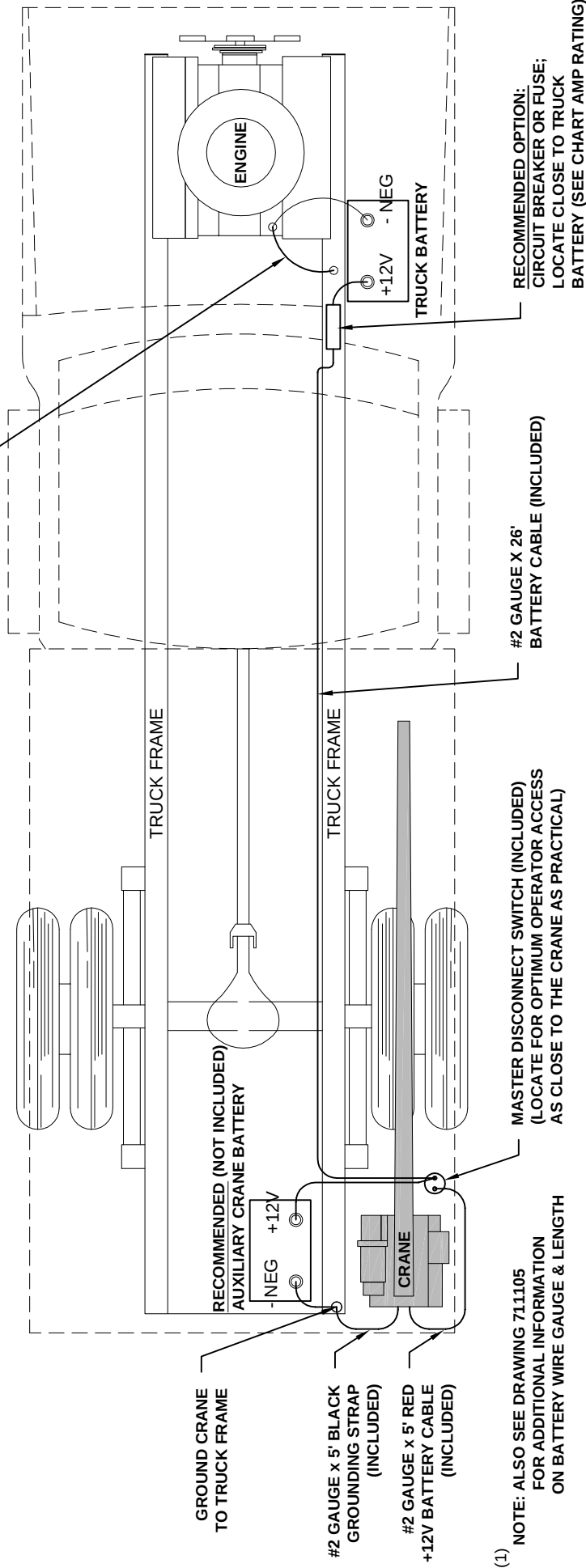
711105

RECOMMENDED CIRCUIT BREAKER TABLE		
CRANE	DESCRIPTION	PART NO.
CT310KX	250 AMP, MAN RESET	22946-250
DT7	250 AMP, MAN RESET	22946-250
CE-1500-FB	150 AMP, MAN RESET	22946-150
CE6K	150 AMP, MAN RESET	22946-150
CT200X	250 AMP, MAN RESET	22946-250
ET6K	250 AMP, MAN RESET	22946-250
ET8/12K(X)	250 AMP, MAN RESET	22946-250
ET12KXP	250 AMP, MAN RESET	22946-250
ET16/18KX	250 AMP, MAN RESET	22946-250
ET25/30KX	300 AMP, AUTO RESET	22946-300
ET36KX	300 AMP, AUTO RESET	22946-300

- BATTERY REQUIREMENTS**
- 12 VOLT VEHICLE BATTERY REQUIREMENTS
 - 625 COLD CRANKING AMPS (AT 0° F)
 - 160 MINUTES RESERVE CAPACITY
 - 102 PLATES, 105 AMP-HR
 - (1) • 12 VOLT AUXILIARY BATTERY REQUIREMENTS
 - SEE MINIMUM WIRE GAUGE AND BATTERY SIZE
- NOTE: OPERATING WITH THE VEHICLE BATTERY 'ONLY' IS PERMISSIBLE, BUT NOT RECOMMENDED.**



INSTALL #2 GAUGE GROUND STRAP FROM ENGINE TO TRUCK FRAME
(REQUIRED IF NEGATIVE FROM BATTERY IS CONNECTED TO ENGINE)



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
BATTERY CABLE & COMPONENT INSTALL

DATE
07-30-18L

SECTION
C200

ET CRANES

SUPERSEDES
07-31-15K

15660

STABILITY TEST - ET12-16' SERIES

Overview

Venturo follows the guidelines of ANSI B30.5 in defining stability. Generally speaking, a truck is considered stable as long as it is not on the verge of tipping - i.e. with the truck level, at least one tire on each corner of the truck must remain in contact with the ground.

It is important to note that nearly every installation is unique and will, therefore, typically require stability testing.

The procedure outlined below follows ANSI's (B30.5 - 5-1.1.1) specified "maximum load rating" of 85% of truck stability.

Testing Procedure

1. Locate the truck on firm, level ground and set parking brake.
2. Fully deploy stabilizers, making sure they are firmly in contact with supportive ground; use stabilizer pads as required. The tires of the truck should remain in full contact with the ground.
3. Inspect wire rope and other key components of crane (consult owners manual for more information).
4. Conduct an operational check of all crane functions.
5. Locate the Overload Pressure Switch at the base of the elevation cylinder
 - 5.1. Disconnect the black & white wires from the housing and then connect the black & white wires together to by-pass the Overload Pressure Switch for the stability test. **Note: The black & white wires MUST be reconnected to the Overload Pressure Switch after the stability test has been completed.**
6. Use a **Test Weight** weighing a **minimum** of **882 lbs.**, (includes load block weight of **24 lbs.**) to a **maximum of 1200 lbs.**
7. Position the boom level and fully retracted.
8. Referring to the Stability Chart (drawing 20907) rotate the crane to a position between 1 and 2 o'clock (truck cab is facing 12 o'clock) to begin testing.
9. Use the winch to lift the Test Weight; DO NOT allow the weight to be more than 6" off the ground at any time during testing (for safety).
10. Using the test weight weighing between **882 to 1200 lbs.**, extend the boom slowly, until one of the two conditions occur:
 - 10.1. Full boom extension is reached - Mark the ZONE in question **100%**
 - 10.2. The truck becomes unstable i.e., a tire lifts off the ground
 - 10.2.1. Retract the boom until at least one tire on each corner of the truck is making contact with the ground
 - 10.2.2. Use the formula below to determine the allowable **% of Rated Capacity** for the ZONE in question.
11. Note: The **"Max Stable Reach in inches"** is measured from the **center of rotation** of the crane housing to the **lifting load hook**.

$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{192} \times 100$$

12. Record the **% of Rated Capacity** in the appropriate blank (region) on the Crane Stability page (ref. 20907) and decal.
13. Repeat Steps 7 through 12 for each ZONE on the stability page.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

STABILITY TEST

ET12-16' SERIES

DATE

11-23-21E

SUPERSEDES

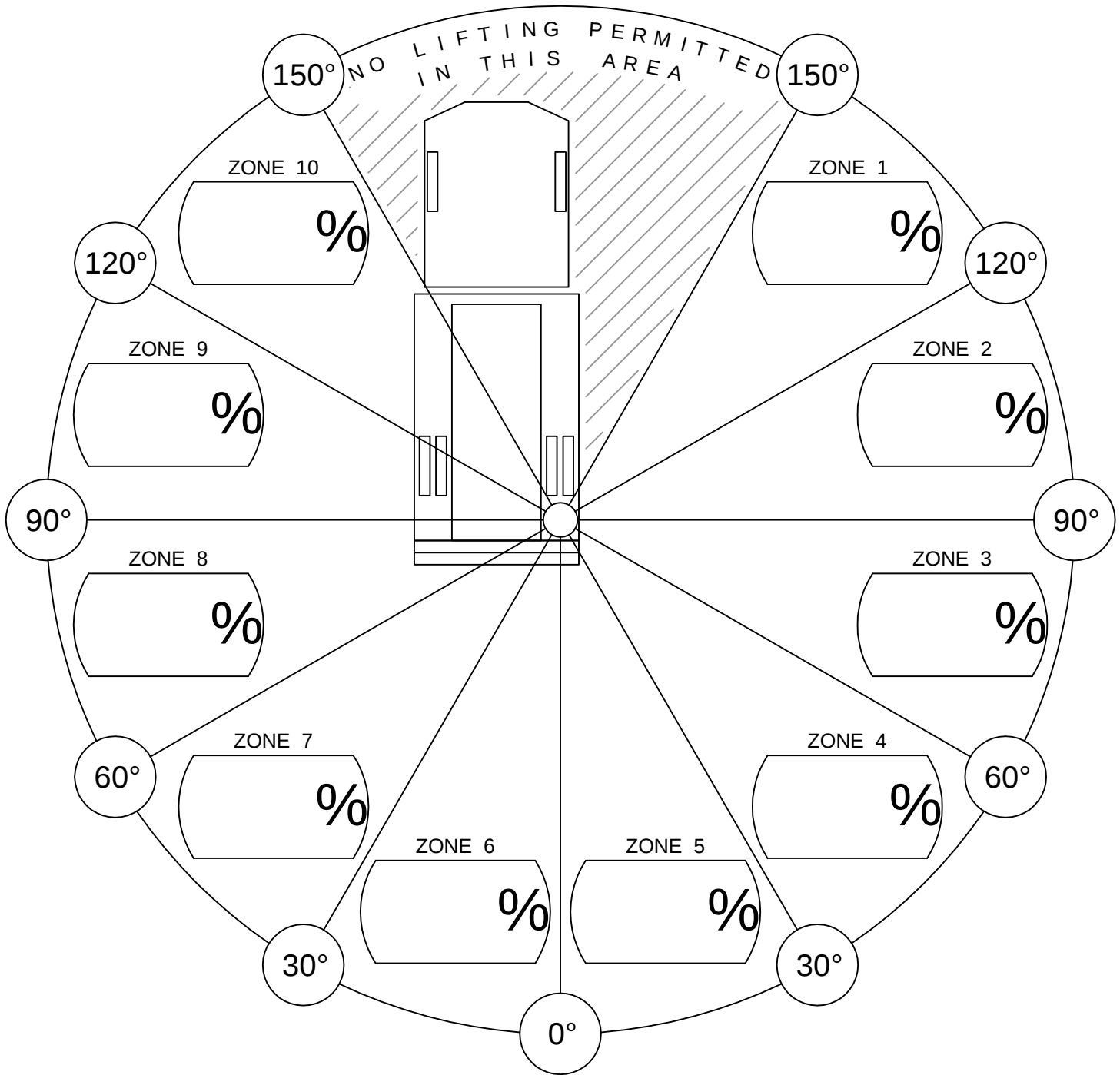
02-26-21D

SECTION

C200

20906-12P

CRANE STABILITY



% of Rated Capacity for each of the 10 regions are provided above.

CONDITIONS:

- STABILIZERS FULLY EXTENDED & DOWN, ON FIRM LEVEL GROUND.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
STABILITY CHART

VENTURO CRANES

DATE
05-11-17F

SUPERSEDES
02-21-14E

SECTION
C200

20907

WIRE ROPE INSTALLATION

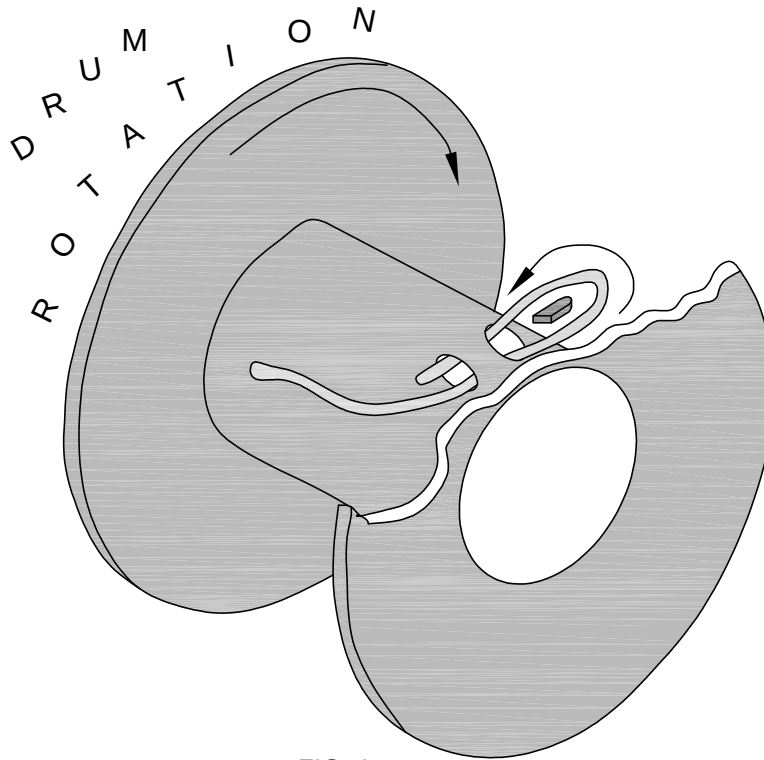


FIG. 1

- STEP 1: UNWIND COIL OF WIRE ROPE BY 'ROLLING' ALONG THE FLOOR. THIS WILL PREVENT 'KINKING'.
- STEP 2: INSERT WIRE ROPE END UP THROUGH ANTI-2-BLOCK (A2B) CAGE ASSEMBLY, BETWEEN CHEEK PLATES, OVER THE TOP SHEAVE, AND THROUGH WIRE ROPE GUIDE.
- STEP 3: INSERT WIRE ROPE END INTO POCKET OPENING ON WINCH, WRAP AROUND WEDGE, AND BACK THROUGH POCKET OPENING AS SHOWN IN FIGURE 1.



CAUTION

- IF THE WIRE ROPE IS NOT INSTALLED FOR THE CORRECT DRUM ROTATION, THE WINCH BRAKE VALVE WILL NOT HOLD THE LOAD.



CAUTION

- THERE MUST ALWAYS BE AT LEAST [5] DEAD WRAPS OF WIRE ROPE ON THE WINCH DRUM WHILE UNDER LOAD.

NOTE: SOME WINCHES MAY BE SUPPLIED WITH A HEX NUT IN LIEU OF A WEDGE FOR INSTALLING THE WIRE ROPE.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

WIRE ROPE INSTALLTN

DATE

02-21-14K

SECTION

C200

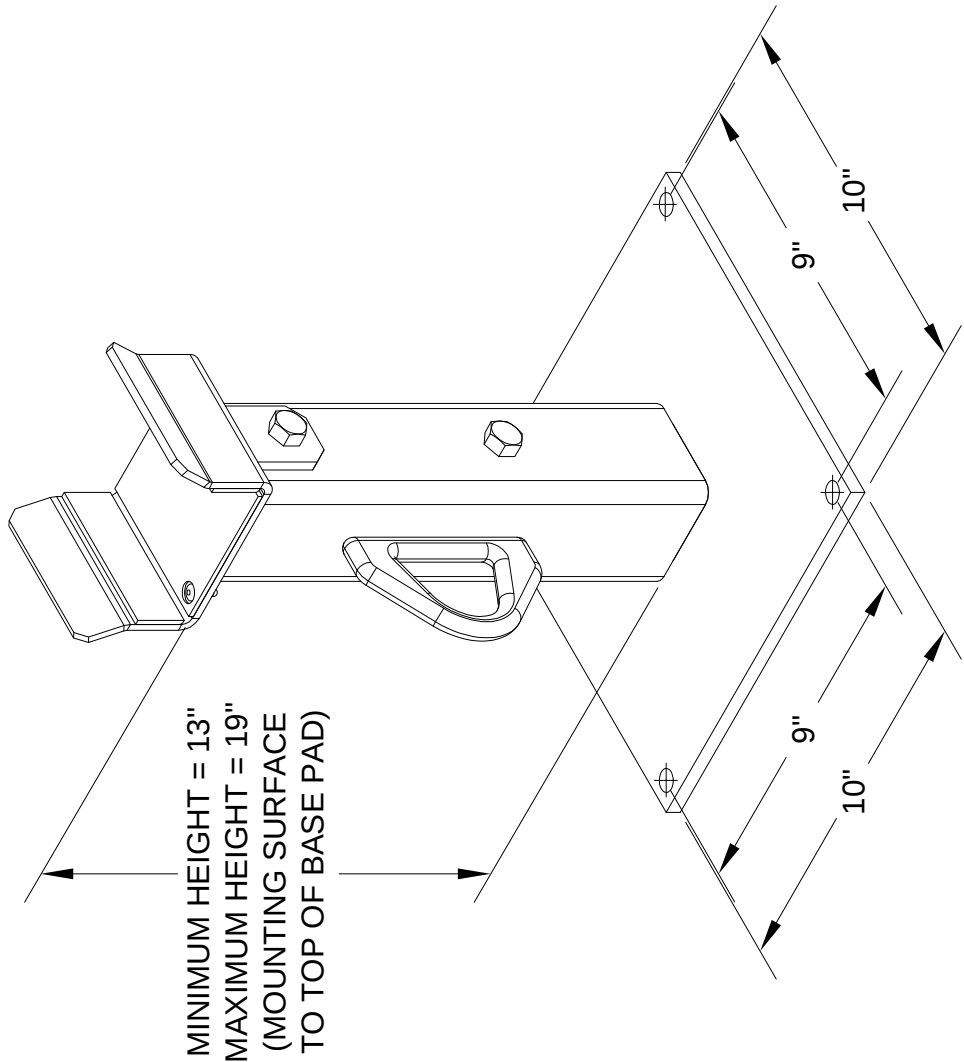
ET6K & LARGER CRANES

SUPERSEDES

12-26-13J

22245

21440 ADJUSTABLE BOOM REST



 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE 21440 ADJUSTABLE BOOM REST ET6/8/12 SERIES CRANES	DATE 03-08-19B	SECTION C200
		SUPERSEDES 12-26-13A	20872

SECTION 300

MAINTENANCE

&

SERVICE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

SAFETY

- ▲ Before operating this crane, read and understand these instructions, the "CRANE SAFETY AND HAZARDS" pages, and review all safety and instruction labels on the crane.

CRANE INSPECTION

Before operating this crane, inspect for wear, damage, and oil leakage. After the wire rope has been run out, check for wear, kinks, and broken strands. Check the hook and safety latch for damage. Correct problems before using the crane.

CAPACITY

Before operating this crane, review the capacity charts on the sides of the boom to relate the load to be lifted to the boom length and angle. The boom angle is indicated by a gravity arrow.

LOAD BLOCK

- ▲ If the load exceeds:
 - 1000 lbs. for the ET6K, or
 - 1600 lbs. for the ET8 Series and ET10K(X), or
 - 1750 lbs. for the ET12 Series,or if reduced winching speed for better control of smaller loads is required, use the load block to rig the crane for two-part line operation. Refer to your crane's "MAXIMUM LOAD CAPACITY" page within this manual.

CONTROLS

This crane is operated by a remote control pendant. The pendant should be unplugged and stored in a compartment or the cab when the crane is not in use.

Before plugging the pendant in, inspect the plug, socket, cord, oandant head, and switches for damage. Actuate all switches in both directions to verify that they all have the same feel and sound, and that they return to the center position.

Plug the pendant into the socket on the right side of the crane and, if applicable, snap the strain relief tether to the crane housing.

Turn on the Master Disconnect Switch. Use "WINCH DOWN" to release tension on the wire rope and unhook it from the storage tie-down position.

Use "BOOM UP" to elevate the boom from the boom rest position.

Check all control functions to see that they are working correctly.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

INSTALLATION DWG

DATE

03-08-19J

SECTION

C200

ET6/8/12 SERIES CRANES

SUPERSEDES

07-30-18H

900530A

CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

CONTROL FUNCTIONS

WINCH UP and WINCH DOWN - Raises and lowers the load with the wire rope.

POWER EXTENSION - "Up" raises the boom elevation by operating the valves and the electric hydraulic power unit. "DOWN" operates a solenoid release valve mounted on the cylinder to lower the load and/or boom by gravity at a controlled rate. A check valve on the cylinder prevents the boom from coming down if a hose breaks. A flow control valve controls the lowering rate.

POWER ROTATION - "L" and "R" control the direction of rotation. The ET6K, ET8K(X), ET10K(X) or ET12K(X) can be rotated continuously thru 360° or more. There are no restrictions on the number of rotations in any direction.

CONTROL PRIORITY SYSTEM (NON-PROPORTIONAL SYSTEMS) - As a built in safety feature, the operator can perform only one major and one minor function at any one time. Major functions include rotation, winching up of a load, and elevating, extending, and retracting the boom. Minor functions include winching down and lowering the boom.

a. "WINCH UP" has priority over "BOOM UP", "BOOM OUT", "BOOM IN", and "ROTATION."

b. "BOOM UP" has priority over "BOOM OUT", "BOOM IN", and "ROTATION."

c. "BOOM OUT" and "BOOM IN" have priority over "ROTATION."

d. "BOOM DOWN" and "WINCH DOWN" can be operated with any function.

- ▲ **TRIGGER (ET12KXP Only)** - Varies the flow rate delivered to the crane valve. The farther the trigger is pulled, the faster the selected crane function operates.

OVERLOAD SENSING SYSTEM

This crane is equipped with an Overload Sensing System. If the capacity of the crane is exceeded, the "Winch Up", "Boom Down", and "Boom Out" functions will be shut down. The "Winch Down", "Boom Up", and "Boom In" functions will continue to operate and can be used to relieve the overload condition. The "Rotation" function also will continue to operate.

TWO-BLOCK SENSING SYSTEM

This crane is equipped with an anti two-block device that is mounted at the tip of the boom. If the load block / overhaul weight contacts the device the "Winch Up", "Boom Down", and "Boom Out" functions are disabled. The "Winch Down",

- ▲ "Boom Up", and "Boom In" functions will continue to operate and can be used to relieve the two-block condition.

CRANE OPERATION

Avoid rapid reversal of the winch and rotation control switches. The high inrush current to the motors during reversal can reduce the life of the contactors, motor brushes, and commutators.

When operating "WINCH UP", "BOOM DOWN", or "BOOM OUT," always maintain clearance between the boom head and the load block or hook.

Do not lift or drag a load sideways using any of the crane functions. The boom has much lower bending strength sideways than in a vertical direction.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

INSTALLATION DWG

DATE

03-08-19H

SECTION

C200

ET6/8/12 SERIES CRANES

SUPERSEDES

07-30-18G

900530B

CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

OVERLOAD ALARM SYSTEMS (OPTIONAL)

This crane may be equipped with an optional overload alarm system.

1. Overload alarm horn sounds if rated load is exceeded at any reach.
2. If alarm sounds, RAISE boom or LOWER winch to remove overload.
3. Always RAISE boom slightly before lifting load - warning system INOPERATIVE when cylinder is completely bottomed.
4. Alarm can be tested by raising boom against up limit stop.

MANUAL TELESCOPIC BOOM

The 6' -14' and 7' - 15' booms have a 4' manual telescoping section in addition to the 4' power extension. A toggle pin locks the boom into either the extended or retracted position.

TRUCK SETUP & STABILIZERS

1. The truck should be parked on firm level ground when using the crane.
2. The center of the crane should be positioned close enough to the job so that it can be operated at a reach that puts the load within the rated capacity of the crane.
3. Set the vehicle parking brake and put the vehicle transmission in "park" (automatic transmission) or low gear (manual transmission), unless the engine is to be left running.
4. Deploy the stabilizers to stabilize the vehicle against rocking or overturning when lifting with the crane.

PREPARATION FOR TRAVEL

1. Return the stabilizers to the stowed position. Install and secure all pins.
2. Stow the crane boom in the boom support.
3. Hook the winch line to a tie down point on the body or pedestal and apply tension.
4. TURN OFF MASTER DISCONNECT SWITCH.
5. Unplug the control pendant and store in a body compartment or the cab.



WARNING

- The pendant (or receiver) plug must be unplugged from the crane socket and the Master Disconnect Switch (power) turned "OFF" when the crane is not in use! Leaving the pendant (or receiver) connected and power on when not in use may result in dangerous, unintentional activation of the crane functions.

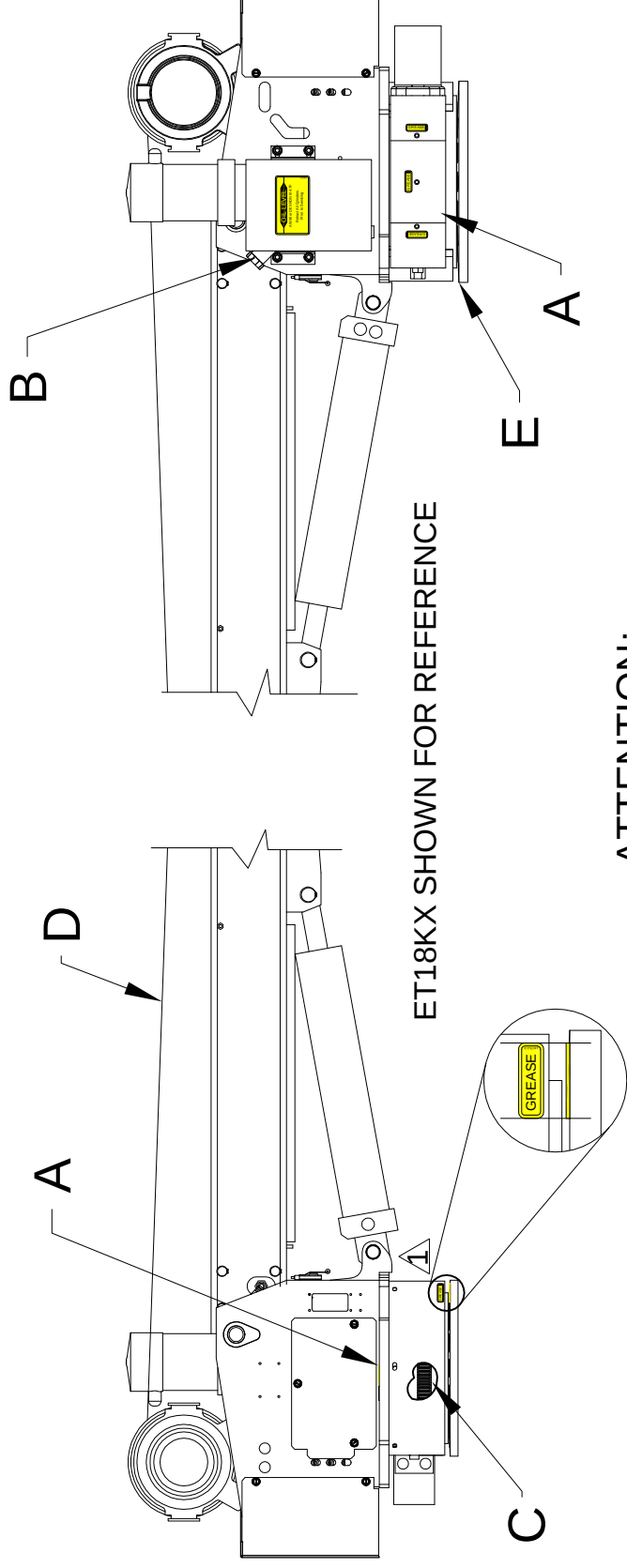


MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DWG
ET6/8/10/12 SERIES

DATE
03-08-19F
SUPERSEDES
12-26-13E

SECTION
C200
900530C



ATTENTION:

NEVER WASH THIS CRANE WITH CHEMICAL PRODUCTS OR HIGH PRESSURE WATER JETS,
AS THEY CAN CAUSE DETACHMENT OF DECALS OR ENTRANCE OF WATER INTO
ELECTRICAL OR SLEWING RING COMPONENTS

Location	Service Required	Note	Service Interval
A	Grease fitting With Pressure Grease Gun	Use FUCHS Renolit Aluminum Complex Grease, or equivalent ⚠️ ALIGNMENT: To align hole w/ fitting, line up grease decals on lower cover and base gusset.	Time of Truck Service
B	Fill Oil Reservoir to Oil Level with Boom Down and Boom In.	Use Dextron ATF for Ambient Temperatures Between -22° F and 30° F Use ISO Viscosity Grade 68 or Equivalent for Ambient Temperatures Between 10° F and 125° F	Time of Truck Service and as required by changes in the ambient temperature range
C	Lubricate Gear Teeth	Remove Cover & Use Chassis Grease	Time of Truck Service
D	Check Wire Rope and Hook	Rope should be free of kinks and fraying	Time of Truck Service
E	Check Torque of bolts	Bolts should be torqued to 200 ft-lbs	Time of Truck Service



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

LUBRICATION & MAINTENANCE CHART

ET8/12/16/18 SERIES CRANES

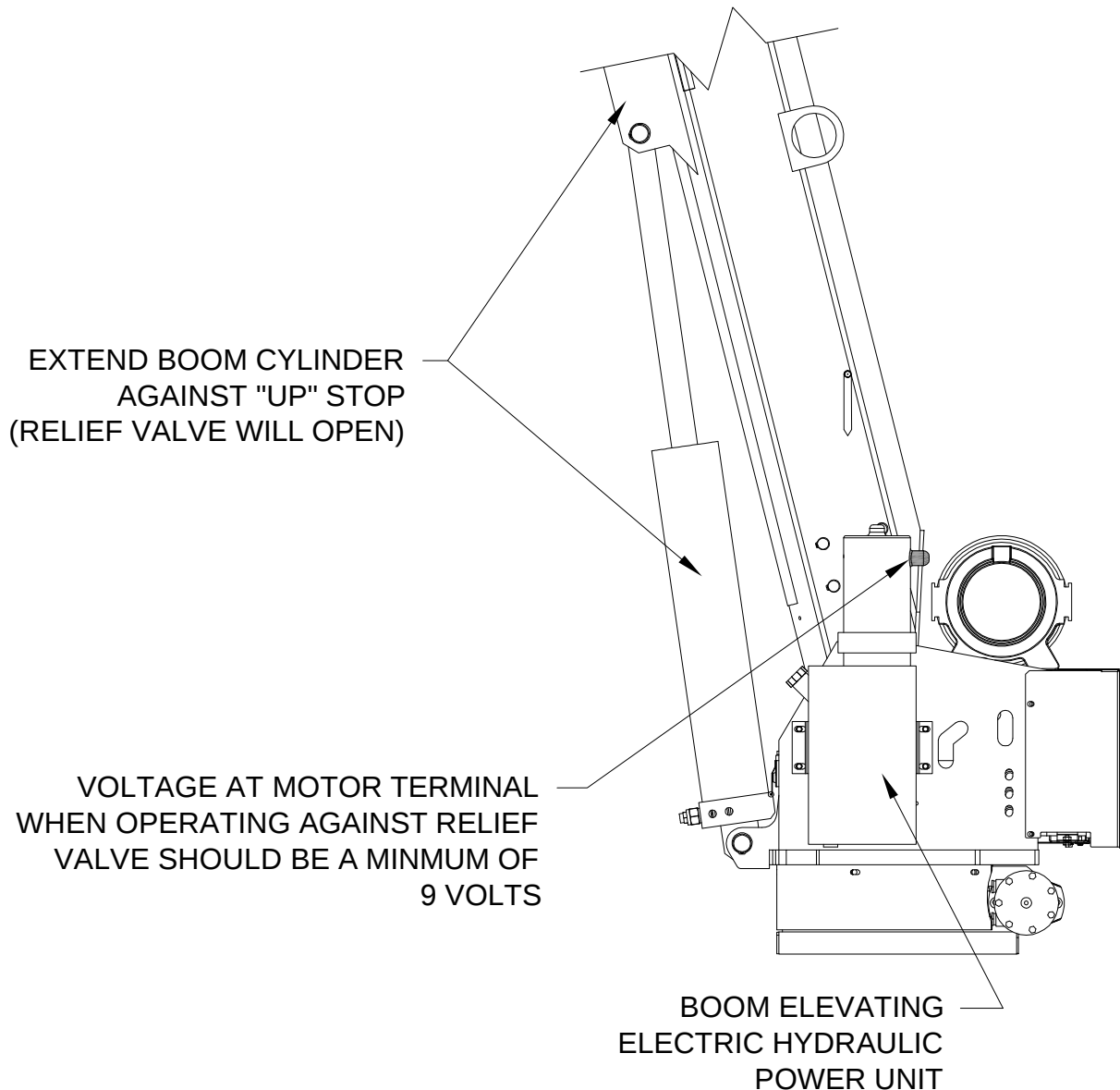
DATE
03-08-19J
SUPERSEDES
11-18-14H

SECTION
C300

21306

MINIMUM VOLTAGE TEST

ONE OF THE MOST COMMON ELECTRICAL PROBLEMS ENCOUNTERED ON 12 VOLT ELECTRICAL CRANES IS INSUFFICIENT VOLTAGE AT THE MOTOR WHEN DRAWING THE LARGE CURRENT THAT EXISTS AT FULL LOAD



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE	MINIMUM VOLTAGE TEST
ET SERIES CRANES	

DATE	12-26-13G
SUPERSEDES	10-05-09F

SECTION	C300
	19963

WIRE ROPE ASSEMBLY

ET6K WIRE ROPE:

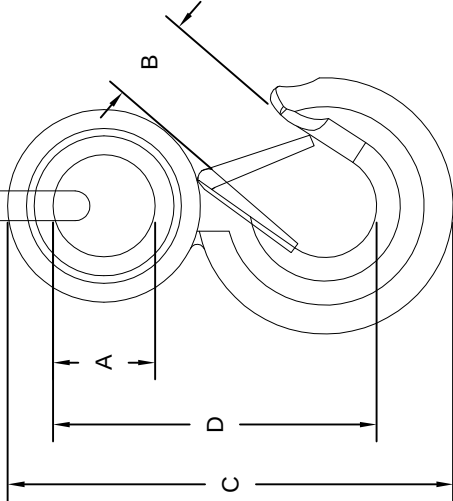
3/16" DIA, 50' LONG

GAC 7X19 LHRL-IWRC, SB 4200 LBS

▲ ET8/12 SERIES WIRE ROPE:

1/4" DIA, 65' LONG

GAC 7X19 IPS-LHRL-IWRC, SB 7000 LBS



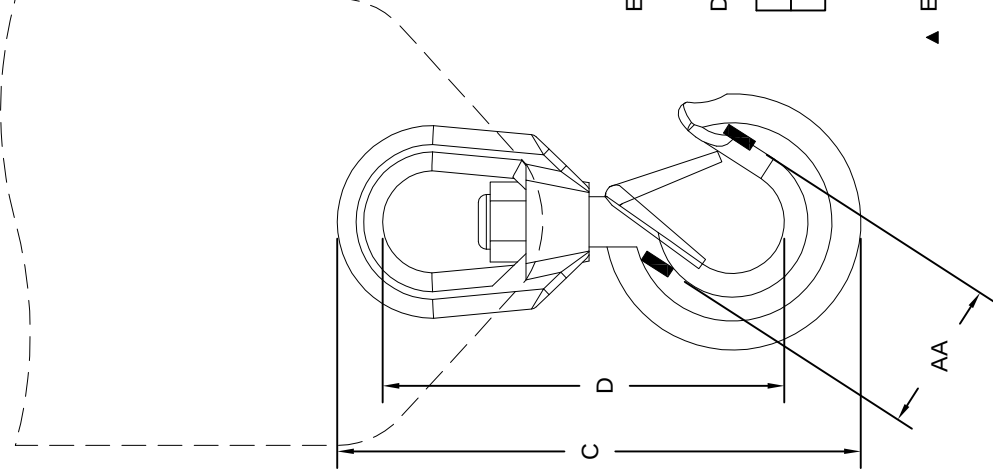
WIRE ROPE HOOK:

RATING: 1 TONNE (2205 LBS)

DIMENSIONS:

A	B	C	D
0.88"	1.06"	4.88"	3.63"

LOAD BLOCK ASSEMBLY



ET6K LOAD BLOCK HOOK:

RATING: 1.5 TONNE (3307 LBS)

DIMENSIONS:

COLOR	BRAND	AA	C	D
GOLD	CROSBY	2.00"	7.75"	6.12"

▲ ET8/12 SERIES LOAD BLOCK HOOK:

RATING: 2 TONNE (4410 LBS)

DIMENSIONS:

COLOR	BRAND	AA	C	D
GOLD	CROSBY	2.00"	8.25"	6.50"

TITLE

VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO



WIRE ROPE & HOOKS SPECIFICATIONS

ET6/8/12 SERIES CRANES

DATE

03-08-19G

SUPERSEDES

05-09-16F

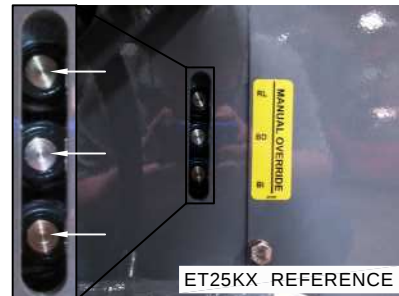
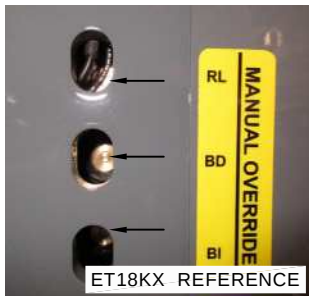
SECTION

C300

23225

MANUAL OVERRIDE INSTRUCTIONS
ET NON-PROPORTIONAL SERIES CRANES ▲

!! READ ALL INSTRUCTIONS BEFORE PERFORMING MANUAL OVERRIDE PROCEDURES !!



Each valve station incorporates [2] hydraulic ports and [2] coils. Manual override shafts are located in the center of the coils (see figure 1). Manual override decals are placed on each crane near the valve assembly. These decals provide a visual aid that helps the operator determine the function designations (Reference figure 2).

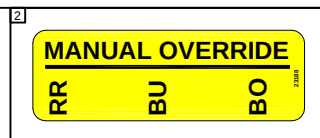
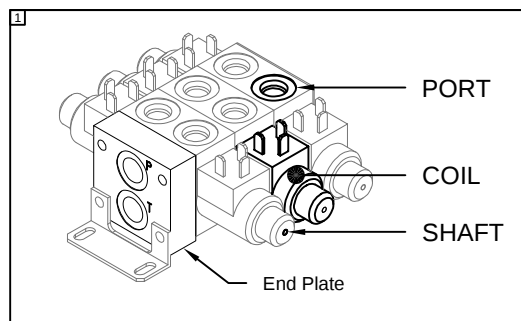
2-STATION FUNCTIONS:

RR = Rot. Right RL = Rot. Left
BU = Boom Up BD = Boom Down

3-STATION FUNCTIONS include previous functions, plus:

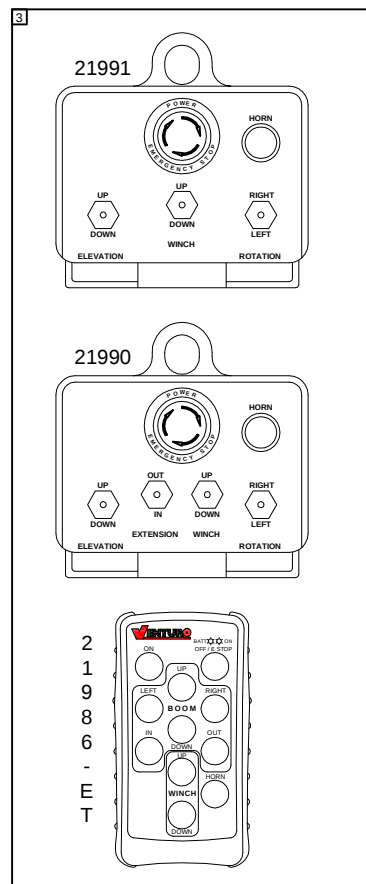
BI = Boom In BO = Boom Out

ALWAYS BE SURE TO CHECK HYDRAULIC OIL LEVEL BEFORE PROCEEDING. IT IS RECOMMENDED TO REMOVE ANY ITEM(S) THAT MAY INTERFERE WITH OPERATING THE CRANE MANUALLY. IF POSSIBLE, STRAPS AND/OR HARNESSSES SHOULD BE REMOVED BEFORE OPERATING A CRANE IN MANUAL OVERRIDE !!



Procedure:

1. Turn Master disconnect switch to "ON"
2. Power up the pendant / radio
 - 2.1. PENDANT - twist EMERGENCY STOP button clockwise
 - 2.2. RADIO - Press green ON button
3. On the crane, reference the function you wish to perform using the manual override decal
4. Using a tool with a diameter of 1/8" or smaller, press the shaft inward and hold
5. Reference the functions listed on your pendant or radio (see figure 3)
6. Press the switch or button for the same function
7. If you need to change function,
 - 7.1. Release switch or button
 - 7.2. Remove tool from shaft
 - 7.3. Go to step 3



For assistance, please feel free to contact Technical Support at 800-226-2238.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAN. OVERRIDE INSTR.
ET NON-PROP CRANES

DATE
03-08-19A
SUPERSEDES
02-09-17

SECTION
C200
23084

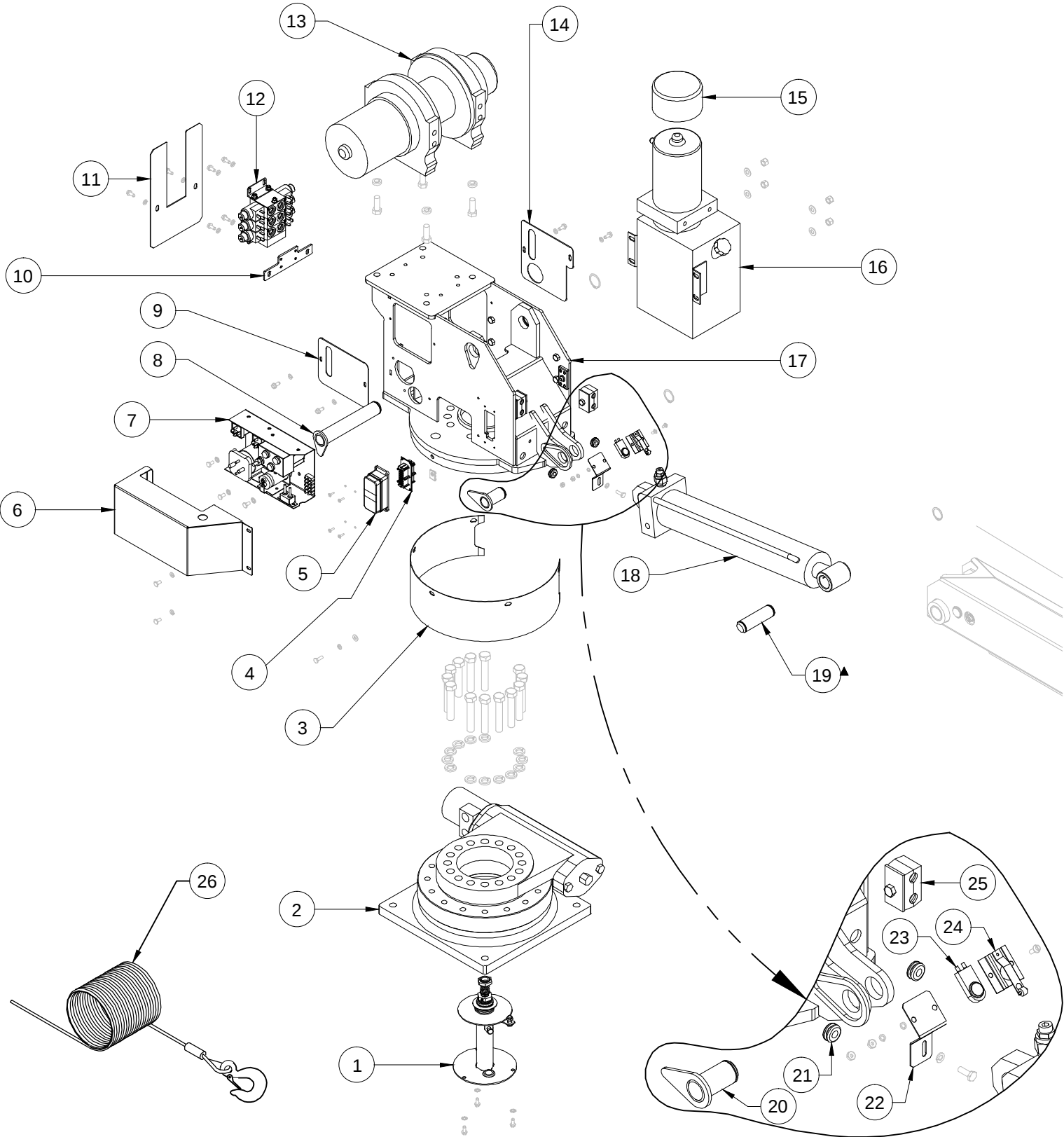
SECTION 400

REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

REPLACEMENT PARTS DRAWING; ET12KX (16'), MECHANISM



REFERENCE DWG #23475 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
REPLACEMENT PARTS DWG	02-07-22A	C400
ET12KX 9-16'	SUPERSEDES 06-05-19	23474

REPLACEMENT PARTS LIST; ET12KX (16') SERIES - MECHANISM

ITEM	QTY	PART NO.	DESCRIPTION
1	1	16780-2P8	SLIP RING; 2-POLE, SWIVEL ASSY
2	1	21735	SLEW DRIVE; ET8/12/16/18
3	1	21185	ROTATION GEAR GUARD
4	1	22482	FEMALE INSERT; 16 + 1 POLE
5	1	22481	SOCKET CASE W/ HOOD
6	1	MB21621	ELECTRICAL ENCLOSURE W/ INSULATOR
7	1	21515	ASSY; ELECTRICAL COMPONENT PANEL
8	1	21540	PIVOT PIN; PRIMARY BOOM, MAIN
9	1	28113	COVER PLATE; RIGHT SIDE
10	1	28110	ADAPTER PLATE; HYD. CONTROL VALVE (ET8/12KX)
11	1	28112	COVER PLATE; REAR
12	1	21614	ASSY; VALVE BLOCK, 3-SPOOL, NON-PROP (ET8/12KX ONLY)
13	1	21556	WINCH; DC1600
14	1	28114	COVER PLATE; LEFT SIDE
15	1	16143-3	MOTOR COVER; 2 HOLES
16	1	26489	HYDRAULIC POWER UNIT; 2800 PSI, 13-250 & 08196
17	1	28122	WELDED ASSY; UNIVERSAL UPPER HSNG
18	1	23059	ASSY; ELEV. CYL., COMPOSITE BRNGS (ET12 SERIES)
19	1	21547	PIN; ELEVATION CYL., OUTBOARD
20	1	23703	WELDMENT; ELEVATION CYL. PIN, INBOARD
21	2	14883	GROMMET; 3/8" ID, 5/8" OD, 3/16" GROOVE
22	1	21545	BRACKET; BOOM SHUT-OFF SWITCH
23	1	19918	SWITCH; TOP POSITION
24	1	19917	BRACKET; TOP POSITION SWITCH
25	2	21612	ASSY; HOSE CLAMP
26	1	21639	WIREROPE; 1/4 X 65' W/ EYEHOOK & SAFETY LATCH
27	1	23700	BOOM FINAL ASSY; ET12KXP 9.5' - 16'
28	1	20670	ASSY; SWIVEL LOAD BLOCK, 3500 LBS.

REFERENCE DWG #23474 FOR REPLACEMENT PARTS DWG



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT PARTS LIST - MECH

DATE

06-05-19

SECTION

C400

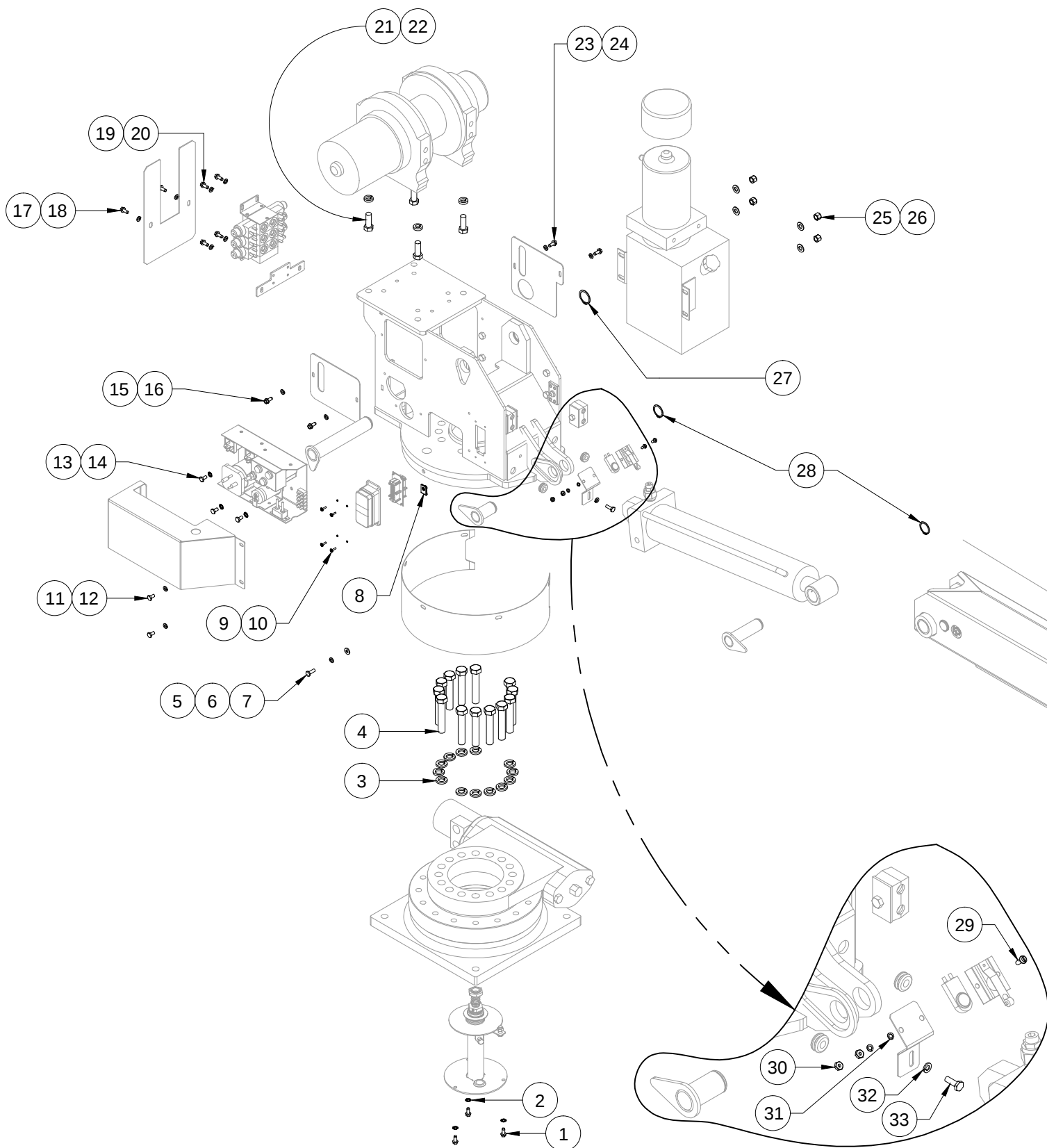
ET12KX 9-16'

SUPERSEDES

-

23475

REPLACEMENT FASTENERS DWG; ET12KX (16'), MECHANISM



REFERENCE DWG #23477 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
RPLCMNT FASTENERS DWG
ET12KX 9-16'

DATE
06-05-19
SUPERSEDES
-

SECTION
C400
23476

REPLACEMENT FASTENER LIST; ET12KX (16'), MECHANISM

ITEM #	PART #	DESCRIPTION	QTY	INSTALLATION / LOCATION
1	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8 S/S	3	CANDLESTICK TO CRANE BASE
2	!LWSH-025-STAR-SS	LOCK WASHER; 1/4", EXTERNAL STAR, S/S	3	CANDLESTICK TO CRANE BASE
3	!LWSH-063	LOCK WASHER; 5/8", GR. 5, ZINC	13	HOUSING TO SLEW RING
4	!HHCS06311350	HEX HEAD CAP SCREW; 5/8-11 x 3-1/2, GR. 5, ZINC	13	HSNG TO SLEW RING (TORQUE 160 LBS.)
5	!HHCS02520075S	HEX HEAD CAP SCREW; 1/4-20 X 3/4, S/S	5	ROTATION GEAR GUARD TO HOUSING
6	!LWSH-025S	LOCK WASHER; 1/4", S/S	5	ROTATION GEAR GUARD TO HOUSING
7	!FWSH-025S	FLAT WASHER; 1/4", S/S	5	ROTATION GEAR GUARD TO HOUSING
8	!UNUT-02520-LKG	U-NUT; 1/4-20, LOCKING	5	LOWER GUARD MOUNTING RING (HSNG)
9	!SHPMS#0832050S	SLOT-HEAD PAN MACHINE SCREW; #8-32 X 1/2, S/S	4	SOCKET CASE W/ HOOD TO HOUSING
10	!LWSH-#08S	LOCK WASHER; #08, S/S	4	SOCKET CASE W/ HOOD TO HOUSING
11	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	2	ELECTRIC PANEL COVER TO HOUSING
12	!LWSH-025S	LOCK WASHER; 1/4, S/S	2	ELECTRIC PANEL COVER TO HOUSING
13	!HHCS02520063	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	3	ELECTRICAL COMPONENT PANEL TO HSNG
14	!LWSH-025-STAR	LOCK WASHER; 1/4, EXTERNAL STAR	3	ELECTRICAL COMPONENT PANEL TO HSNG
15	!HHCS02520050S	HEX HEAD CAP SCREW; 1/4-20 X 1/2, S/S	2	RIGHT SIDE COVER PLATE TO HOUSING
16	!LWSH-025-S	LOCK WASHER; 1/4, S/S	2	RIGHT SIDE COVER PLATE TO HOUSING
17	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	2	REAR COVER & ADAPTER PLATE TO HOUSING
18	!LWSH-025-S	LOCK WASHER; 1/4, S/S	2	REAR COVER & ADAPER PLATE TO HOUSING
19	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	4	VALVE BLOCK TO ADAPTER PLATE & HSNG
20	!LWSH-025-S	LOCK WASHER; 1/4, S/S	4	VALVE BLOCK TO ADAPTER PLATE & HSNG
21	!HHCSM12125035-8.8	HEX HEAD CAP SCREW; M12-125 X 35MM, GR. 8.8	4	WINCH TO HOUSING
22	!LWSH-050-HC	LOCK WASHER; 1/2 HI-COLLAR, GR. 5 ZINC	4	WINCH TO HOUSING
23	!HHCS02520063S	HEX HEAD CA SCREW; 1/4-20 X 5/8, S/S	2	LEFT SIDE COVER PLATE TO HOUSING
24	!LWSH-025-S	LOCK WASHER; 1/4, S/S	2	LEFT SIDE COVER PLATE TO HOUSING
25	!LNUT-03816	LOCK NUT; 3/8-16, NYLON INSERT	4	HYDRAULIC POWER UNIT TO HOUSING
26	!FWSH-038SAE	FLAT WASHER; 3/8 SAE, ZINC PLATED	4	HYDRAULIC POWER UNIT TO HOUSING
27	!SRNG-125	SNAP RING; 1-1/4, PLATED	1	MAIN BOOM PIVOT PIN
28	!SRNG-113	SNAP RING; 1-1/8, PLATED	2	ELEVATION CYLINDER PIVOT PINS
29	!PHPMS#1024050S	PHILLIPS HEAD PAN MACH. SCREW; 10-24 X 1/2, S/S	2	TOP POS. BRCKT TO BOOM SHUT-OFF BRCKT
30	!LWSH-#10S	LOCK WASHER; #10, S/S	2	TOP POS. BRCKT TO BOOM SHUT-OFF BRCKT
31	!HNUT-#1024S	HEX NUT; #10-24, S/S	2	TOP POS. BRCKT TO BOOM SHUT-OFF BRCKT
32	!LWSH-025-S	LOCK WASHER; 1/4, S/S	1	BOOM SHUT-OFF SWITCH BRACKET TO HSNG
33	!HHCS02520075S	HEX HEAD CAP SCREW; 1/4-20 X 3/4, S/S	1	BOOM SHUT-OFF SWITCH BRACKET TO HSNG

REFERENCE DWG #23476 FOR REPLACEMENT FASTENER DRAWING

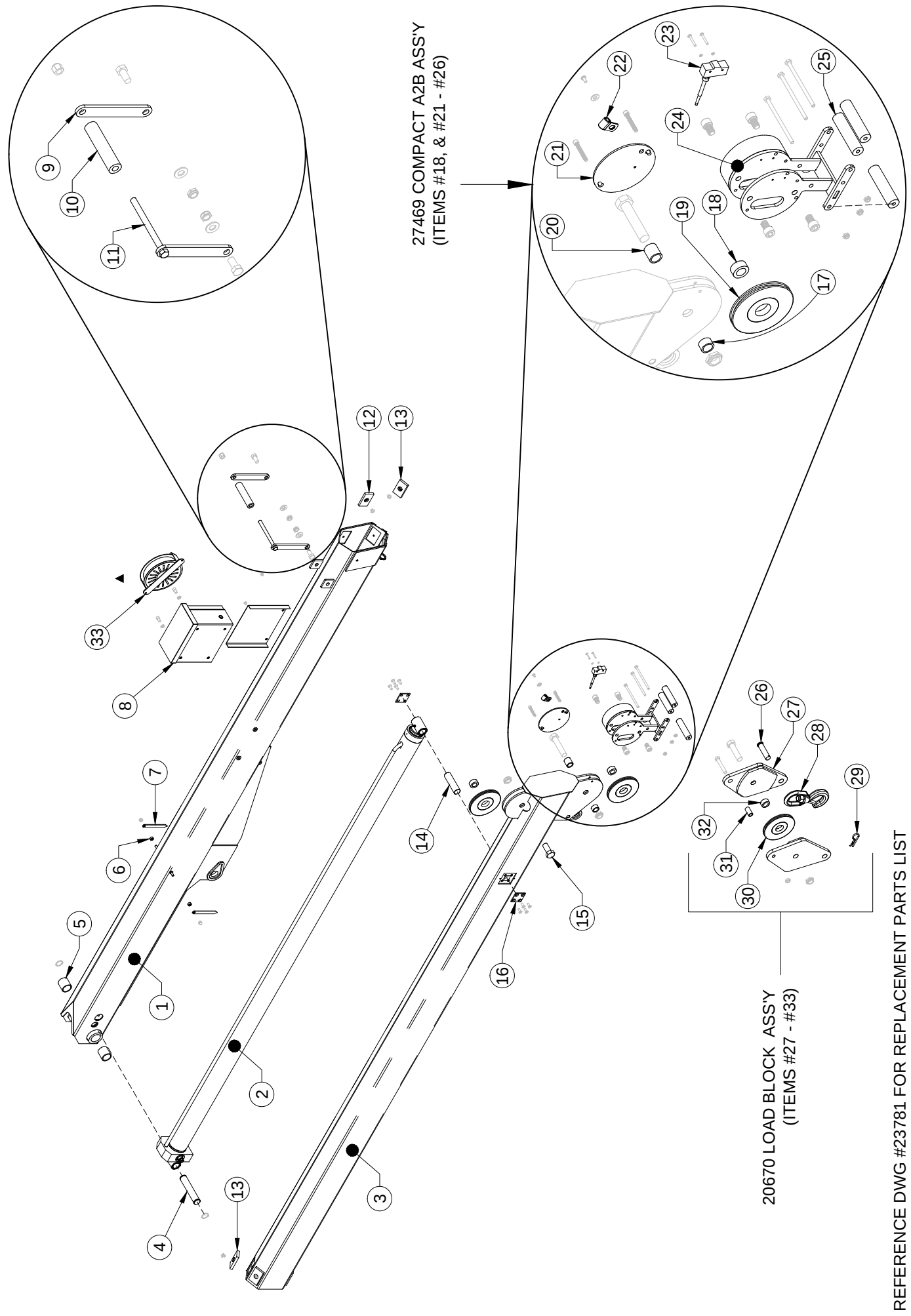


VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
RPLCMNT FASTENER LIST
ET12KX 9-16'

DATE
06-05-19
SUPERSEDES
-

SECTION
C400
23477



27469 COMPACT A2B ASS'Y
(ITEMS #18, & #21 - #26)

20670 LOAD BLOCK ASS'Y
(ITEMS #27 - #33)

REFERENCE DWG #23781 FOR REPLACEMENT PARTS LIST

 VENTURO [®]	VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		TITLE	23700 BOOM REPLACEMENT PARTS DWG		DATE	06-05-19B	SECTION	C400
				ET12KX(P), 9' - 16' BOOM		SUPERSEDES	08-30-18A		
									23780

REPLACEMENT PARTS LIST; 23700, 9-16' BOOM

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	23701	WELDMENT; PRIMARY BOOM, 9-16' BOOM
2	1	23692	EXTENSION CYLINDER; 9-16', 78" STROKE
3	1	23702	WELDMENT; SECONDARY BOOM, 9-16'
4	1	23708	PIN; EXTENSION CYLINDER, INBOARD
5	2	21785	BEARING; MRP COMPOSITE, PRIMARY BOOM
6	2	22490	SPACER; BOOM ARROW
7	2	13459-2	ARROW; 4.44" OVERALL LENGTH
8	1	28190	COMPLETE CORD REEL
9	1	21936	WIRE ROPE GUIDE; FLAT MOUNT
10	1	21560	ROLLER; UHMW GUIDE
11	1	21935	WELDMENT; WIRE ROPE GUIDE
12	2	23710-2	BOOM PAD; 1.5 X 2.5 X 0.31
13	4	23710-3	BOOM PAD; 1.5 X 2.5 X 0.38
14	1	23709	PIN; EXTENSION CYLINDER, OUTBOARD
15	1	17059-4	SHEAVE AXLE; 1.69" LG, 0.50" SHANK
16	2	23706	CYL. PIN RETAINER PLATE; SEC. BOOM WLDMNT
17	1	27476-1	SPACER / PIVOT; COMPACT A2B, 0.57" LG
18	2	20536	SPACER; SHEAVE
19	2	21630	SHEAVE; POLY CABLE W/ BUSHING
20	1	27476-2	SPACER / PIVOT; COMPACT A2B, 1.06" LG
21	1	27473	COVER PLATE; COMPACT A2B
22	1	19269	CABLE CLAMP; 1/4"
23	1	19376	LIMIT SWITCH; A2B, MODIFIED
24	1	27468	WELDMENT; FRAME, COMPACT A2B
25	3	27475	WIREROPE GUIDE ROLLER; COMPACT A2B
26	1	20675	CLEVIS PIN
27	1	20671	WELDED ASS'Y; SIDE PLATE
28	1	17291	HOOK; SWIVEL W/ SAFETY LATCH
29	1	21-07	HAIRPIN COTTER
30	1	21630	SHEAVE; POLY CABLE W/ BUSHING
31	1	20674	SPACER
32	1	20536	SPACER; SHEAVE
33	2	27007-04a	DECAL; CAPACITY, 4000LBS. (NOT SHOWN)

ITEMS #17, & #20-25
ITEMS #26-32

COMPACT A2B ASSEMBLY
LOAD BLOCK ASSEMBLY

#27469-2
#20670

REFERENCE DWG #23780 FOR REPLACEMENT PARTS DRAWING

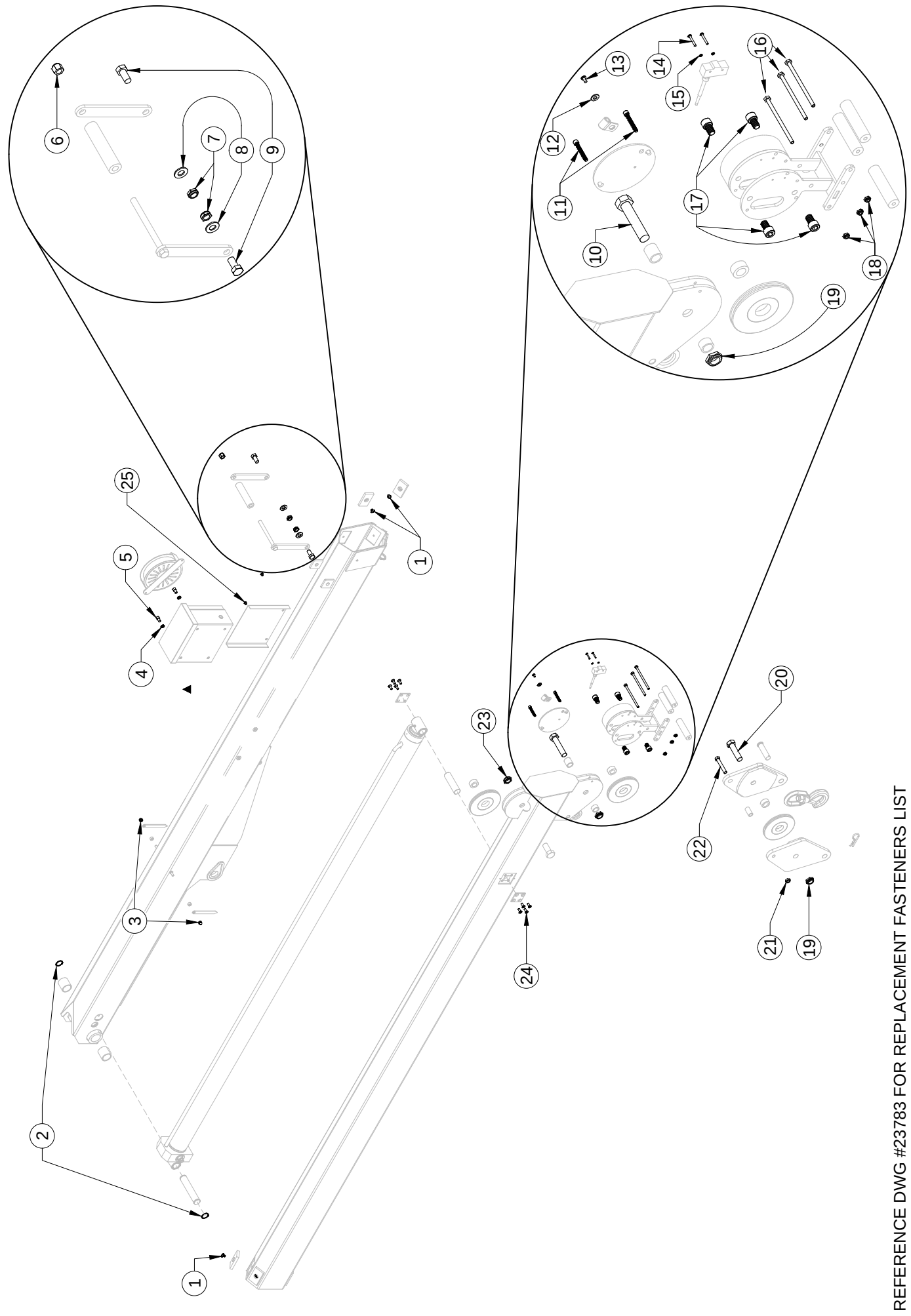


VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
23700 RPLCMNT PARTS LIST
ET12KXP, 9-16' BOOM

DATE
04-06-21C
SUPERSEDES
02-08-21B

SECTION
C400
23781



REFERENCE DWG #23783 FOR REPLACEMENT FASTENERS LIST

 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE		23700 BOOM RPLCMNT FASTENERS DWG		SECTION		C400	
	DATE		06-05-19B		SUPERSEDES		08-30-18A	
			ET12KX(P), 9' - 16' BOOM				23782	

REPLACEMENT FASTENER LIST; ET12KX(P), 23700 BOOM, 9-16'

ITEM #	PART #	DESCRIPTION	QTY	INSTALLATION / LOCATION
1	!THCS02520038 SS	TRUSS HEAD PHILLIPS SCREW; 1/4-20 X 3/8 S/S	6	BOOM PADS
2	!SRNG-100	SNAP RING; 1", PLATED	2	INBOARD EXT. CYL. PIN TO PRIMARY BOOM
3	!ANUT-02520S	ACORN NUT; 1/4-20, S/S	2	ARROW TO PRIMARY BOOM
4	!LWSH-031S	LOCK WASHER; 5/16, S/S	2	CORD REEL ENCLOSURE TO PRIMARY BOOM
5	!SHCS03118050-SS	SOCKET HEAD CAP SCREW; 5/16-18 X 1/2, S/S	2	CORD REEL ENCLOSURE TO PRIMARY BOOM
6	!LNUT-04414	LOCK NUT; 7/16-14, NYLON INSERT	1	WELDED W/R GUIDE TO FLAT MOUNT W/R GUIDE
7	!JNUT-05013N	JAM NUT; 1/2-13, NYLON INSERT	2	WIRE ROPE (W/R) GUIDES TO PRIMARY BOOM
8	!FWSH-050	FLAT WASHER; 1/2, ZINC PLATED	2	WIRE ROPE GUIDES TO PRIMARY BOOM
9	!HHCS05013100-5	HEX HEAD CAP SCREW; 1/2-13 X 1" LG, GR. 5, PLTD	2	WIRE ROPE GUIDES TO PRIMARY BOOM
10	!HHCS07510350	HEX HEAD CAP SCREW; 3/4-10 X 3-1/2, GR. 5, PLTD	1	LOWER SHEAVE AXLE / COMPACT A2B WELDMENT
11	!SHCS02520175	SOCKET HEAD CAP SCREW; 1/4-20 X 1-3/4	2	COMPACT A2B COVER TO COMPACT A2B WELDMENT
12	!FWSH-025	FLAT WASHER; 1/4", GR. 5, ZINC PLATED	1	CABLE CLAMP TO COMPACT A2B WELDMENT
13	!PHCS#1032038-M	PAN HEAD CAP SCREW; #10-32 X 3/8, ZINC, SLOT	1	CABLE CLAMP TO COMPACT A2B WELDMENT
14	!PHCS#0632100	PAN HEAD CAP SCREW; #6-32 X 1" LG, GR. 5, ZINC	2	LIMIT SWITCH TO COMPACT A2B WELDMENT
15	!LWSH-#06	LOCK WASHER; #06, GR. 5, ZINC PLTD	2	LIMIT SWITCH TO COMPACT A2B WELDMENT
16	!HHCS02520450	HEX HEAD CAP SCREW; 1/4-20 X 4-1/2, GR. 5, PLTD	3	W/R GUIDE ROLLERS TO COMPACT A2B WELDMENT
17	27467	SHCS; BLACK NYLON, 1/2-13 X 3/4	4	COMPACT A2B WELDMENT
18	!JNUT-02520NS	JAM NUT; 1/4-20, NYLON INSERT, S/S	3	W/R GUIDE ROLLERS TO COMPACT A2B WELDMENT
19	!JNUT-07510N	JAM NUT; 3/4-10, NYLON INSERT, GR. 5, PLTD	2	ITEM #11 AND ITEM #21
20	!HHCS07510300	HEX HEAD CAP SCREW; 3/4-10 X 3" LG, GR. 5, ZINC	1	LOAD BLOCK SIDE PLATES / SHEAVE
21	!JNUT-04414N	JAM NUT; 7/16-14, BYLON INSERT, GR. 5, ZINC	1	LOAD BLOCK SIDE PLATES / SPACER
22	!HHCS04414275	HEX HEAD CAP SCREW; 7/16-14 X 2-3/4, GR. 5, ZINC	1	LOAD BLOCK SIDE PLATES / SPACER
23	!LNUT-07510	LOCK NUT; 3/4-10, NYLON INSERT, GR. 5, ZINC	1	17059-4 SHEAVE AXLE
24	!CACS02520050S	C'SINK ALLEN HEAD CAP SCREW; 1/4-20 X 1/2, S/S	8	CYLINDER PIN RETAINER PLATES
25	!PHCS#1024038	PAN HEAD CAP SCREW; #10-24 X 3/8" LG, GR. 5, ZINC	2	CORD REEL FRONT COVER

ITEMS #10-19

HARDWARE FOR COMPACT A2B ASSEMBLY #27469

ITEMS #19-22

HARDWARE FOR LOAD BLOCK #20670

REFERENCE DWG #23782 FOR REPLACEMENT FASTENER DRAWING



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT FASTENER LIST

DATE

06-05-19B

SECTION

C400

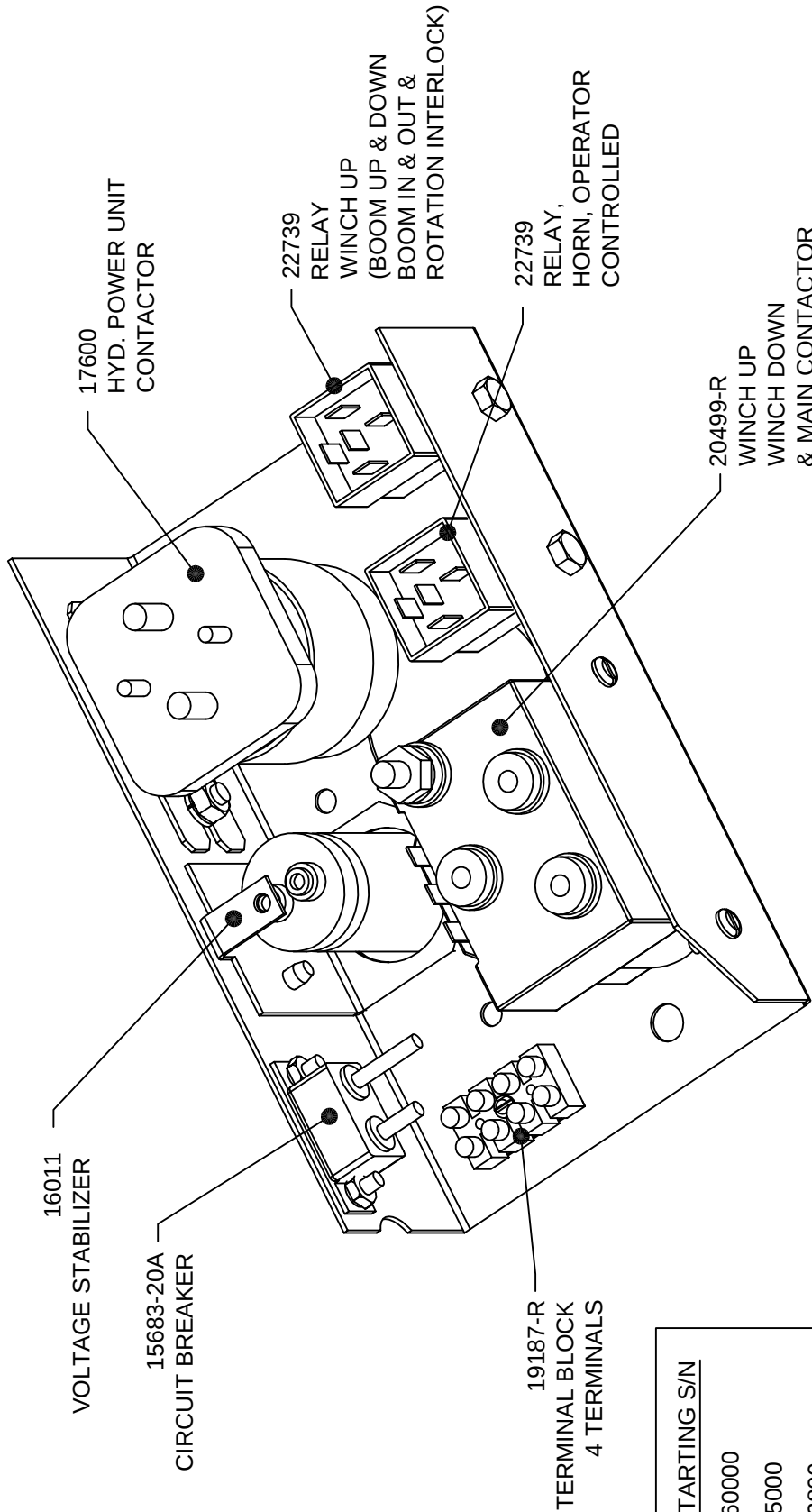
ET12KX(P), 23700 BOOM, 9-16'

SUPERSEDES

08-30-18A

23783

21515 ELECTRICAL COMPONENT ASSEMBLY



MODEL	STARTING S/N
ET6K	160000
ET8K	45000
ET8KX	73800
ET12K	61800
ET12KX	69800
ET12KXP	25C000001



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
ELECTRICAL COMPONENT ASSEMBLY

DATE
07-31-18F

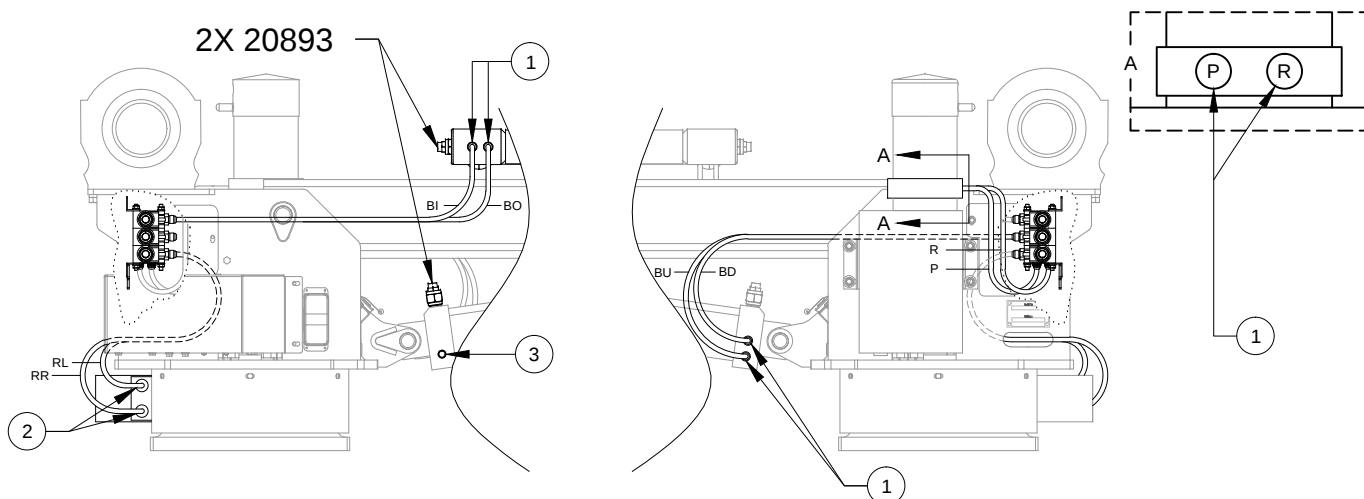
SECTION
C400

ET6K, ET8/12K(X), ET12KXP

SUPERSEDES
02-10-15E

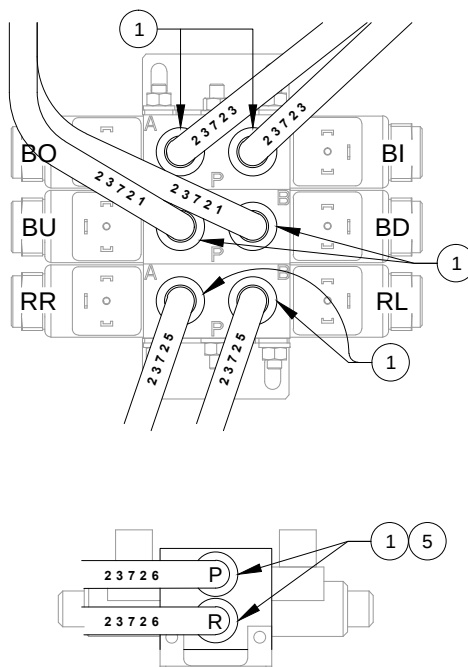
21600

REPLACEMENT PARTS; HYDRAULIC COMPONENTS, ET12KX (9-16') GEN 'C' SERIES



23790 - ET12KX GENERATION 'C', NON-PROPORTIONAL, 9-16'			
ITEM	PART #	QTY	DESCRIPTION
1	FF6400-0606	12	FITTING; ADAPTER, STRAIGHT, 6OFS-6MO
2	FF6400-0610	2	FITTING; ADAPTER, STRAIGHT, 6OFS-10MO
3	H6805-0404	1	FITTING; ADAPTER, 90° ELBOW, 4MO-4FP
4	FF6801-0606	2	FITTING; ADAPTER, 90° 6OFS-6MO

21614 NON-PROPORTIONAL VALVE BLOCK



HOSE ROUTINGS ARE FOR REFERENCE ONLY

SCALE 1:13



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS

ET12KX 9-16' BOOM

DATE

06-10-19

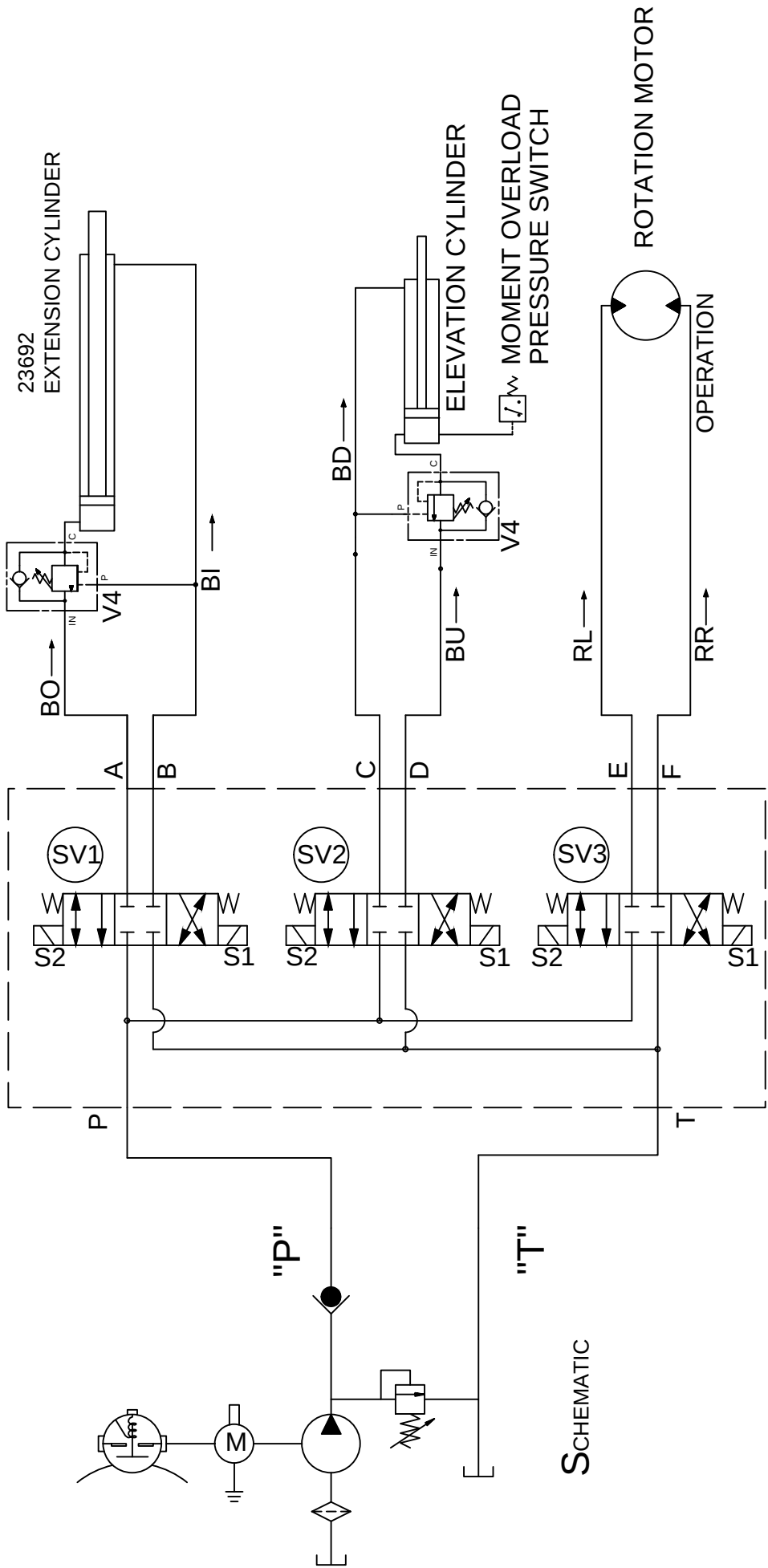
SUPERSEDES

-

SECTION

C400

23482



- SV1

ENERGIZE "S2"
OPEN FLOW
'P' TO 'A'
'B' TO 'T'

ENERGIZE "S1"
OPEN FLOW
'P' TO 'B'
'A' TO 'T'
- SV2

ENERGIZE "S2"
OPEN FLOW
'P' TO 'C'
'D' TO 'T'

ENERGIZE "S1"
OPEN FLOW
'P' TO 'D'
'C' TO 'T'
- SV3

ENERGIZE "S2"
OPEN FLOW
'P' TO 'E'
'F' TO 'T'

ENERGIZE "S1"
OPEN FLOW
'P' TO 'F'
'E' TO 'T'

 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE	DATE	SECTION
	HYDRAULIC SYSTEM DIAGRAM	06-10-19	C400
	ET12KX, 9-16' BOOM	SUPERSEDES -	23480

Single & 2-Pole Slip-ring Replacement Parts (1 of 2)

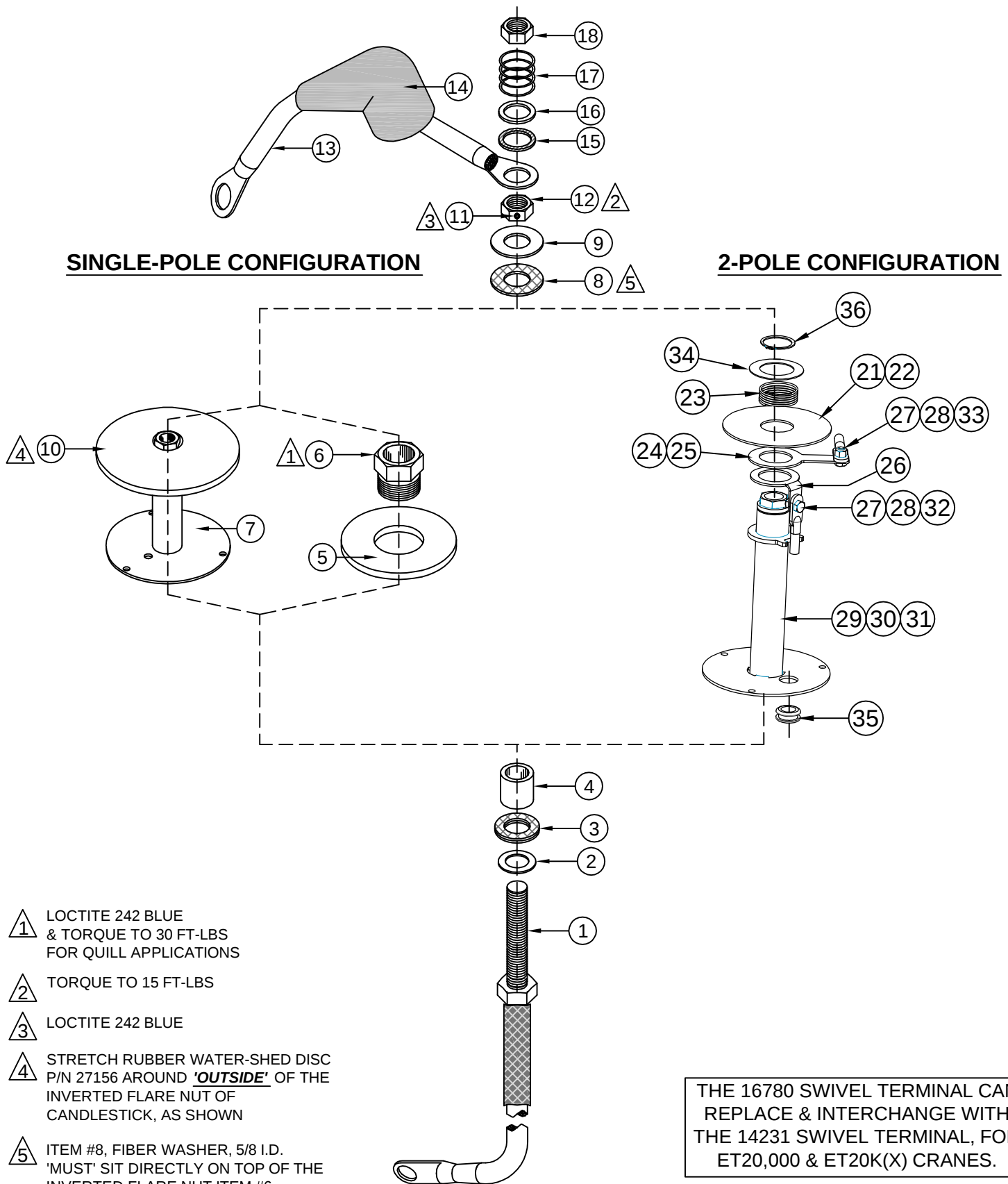
						16780 BILLS OF MATERIALS		
Quill Rotation	Slew Rotation Single Pole Slip-Ring	Slew Rotation 2-Pole Slip-Ring (ET6K ONLY)	Slew Rotation 2-Pole Slip-Ring (ET8-18KX)	Slew Rotation 2-Pole Slip-Ring (ET25-36KX)	ALL CRANES			
16780	16780 - 1	16780 - 2P6	16780 - 2P8	16780 - 2P25	16780 - KIT			
QTY						#	PART	DESCRIPTION
1	1	1	1	1	-	1	16783	PIGTAIL AND STUD ASSEMBLY
1	1	1	1	1	1	2	12534-5	ZINC BUSHING; 5/8" I.D. X 1" O.D. X 14 GAUGE
2	2	2	2	2	2	3	14357-1	FIBER WASHER; 5/8" I.D. X 1 1/16" O.D. X 1/16"
1	1	1	1	1	1	4	14233	INSULATING BUSHING; 5/8" I.D. X 7/8" O.D. X 7/8"
1	-	-	-	-	-	5	14318	FLAT WASHER; 1 3/16" I.D. X 2 3/4" O.D. X 3/16"
1	-	-	-	-	-	6	14232	INVERTED FLARE NUT; 1 3/16"-16
-	-	-	-	-	-	7	27568	WELDED ASSY. CANDLESTICK
1	1	1	1	1	1	8	14357-2	FIBER WASHER; 5/8" I.D. X 1 1/4" O.D. X 1/16"
1	1	1	1	1	1	9	IFWSH-063SAE	FLAT WASHER; 5/8" SAE
-	1	-	-	-	-	10	27156	RUBBER WATER SHIELD; 1/8" THICK
1	1	1	1	1	1	11	ISHCS02528025KC	SET SCREW W/ KNURLED CUP; 1/4"-28 X 1/4"
1	1	1	1	1	1	12	21273	BRASS JAM NUT; 5/8"-11
-	-	-	-	-	-	13	26035-2	PIGTAIL; SWIVEL TERMINAL
-	-	-	-	-	-	14	17012	RUBBER BOOT; SWIVEL TERMINAL
1	1	1	1	1	1	15	5612-162-62	TEFLON WASHER
1	1	1	1	1	1	16	5714-113-62	BRASS WASHER
1	1	1	1	1	1	17	LC-098K-00	SPRING; 0.845" O.D. X 0.098" WIRE X 1.00 F.L.
1	1	1	1	1	1	18	!JNUT-06311N	JAM NUT; 5/8"-11, NYLON NUT
1	1	1	1	1	1	19	LOCTITE-24205	REMOVABLE THREAD LOCKER; 0.5ML
1	1	1	1	1	1	20	19368	IDWG; 16780 SWIVEL TERMINAL
-	-	1	-	-	-	21	27456	UHMW WATER SHIELD, (ET6K ONLY)
-	-	-	1	1	-	22	27456-1	UHMW WATER SHIELD, (ET8 - ET36)
-	-	1	1	1	-	23	27461	SPRING, (-) SLIP-RING ASSY.
-	-	-	1	1	-	24	27441-1	COPPER SLIP-RING, (ET8 - ET36)
-	-	1	-	-	-	25	27441	COPPER SLIP-RING, (ET6K ONLY)
-	-	1	1	1	-	26	27449-1	BRASS SLIP-RING (ET6 - ET36)
-	-	1	1	1	-	27	!HHCS03118075-B	BRASS HHCS
-	-	1	1	1	-	28	!HNUT-03118-B	BRASS NYLOC NUT
-	-	1	-	-	-	29	23255	SLIP-RING, WELDED ASSY, ET6K
-	-	-	1	-	-	30	23255-1	SLIP-RING, WELDED ASSY, ET8 - 18K(X)
-	-	-	-	1	-	31	23255-2	SLIP-RING, WELDED ASSY, ET25 - 36K(X)
-	-	1	1	1	-	32	02025-2*96.5INX	(-) WELDING CABLE ASSY, BRASS SLIP-RING
-	-	1	1	1	-	33	02025-2*22.5INX	(-) WELDING CABLE ASSY, COPPER SLIP-RING
-	-	1	1	1	-	34	27463	SHIM, WIDE RIM, 18GA, 2-1/4 O.D. X 1-1/2 I.D.
-	-	1	1	1	-	35	20889	RUBBER GROMMET
-	-	1	1	1	-	36	!SRNG-150	SNAP-RING, EXTERNAL, 1-1/2"



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
16780 REPLACEMENT PARTS	03-29-19A	C400
ET6/8/12/16/18/25/30/36K(X)	SUPERSEDES 04-27-18	21292

Single & 2-Pole Slip-ring Replacement Parts (2 of 2)



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

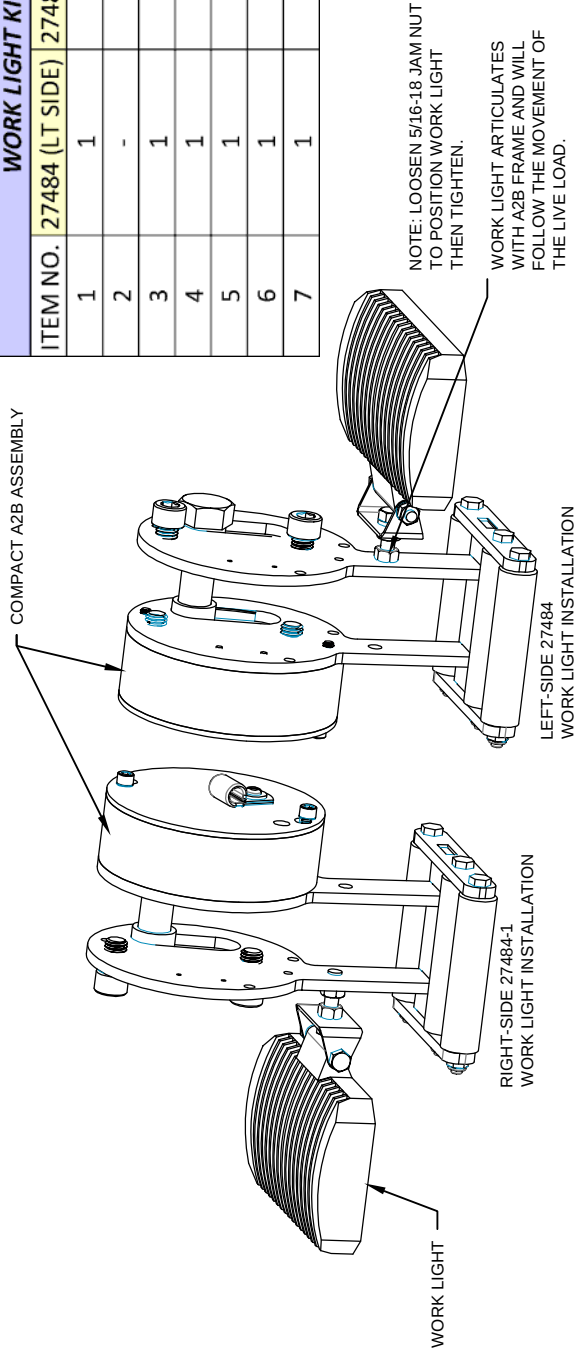
TITLE
REPL. PARTS ILLUSTRATION
ET6/8/12/16/18/25/30/36K(X)

DATE
04-27-18
SUPERSEDES
-

SECTION
C400
21293

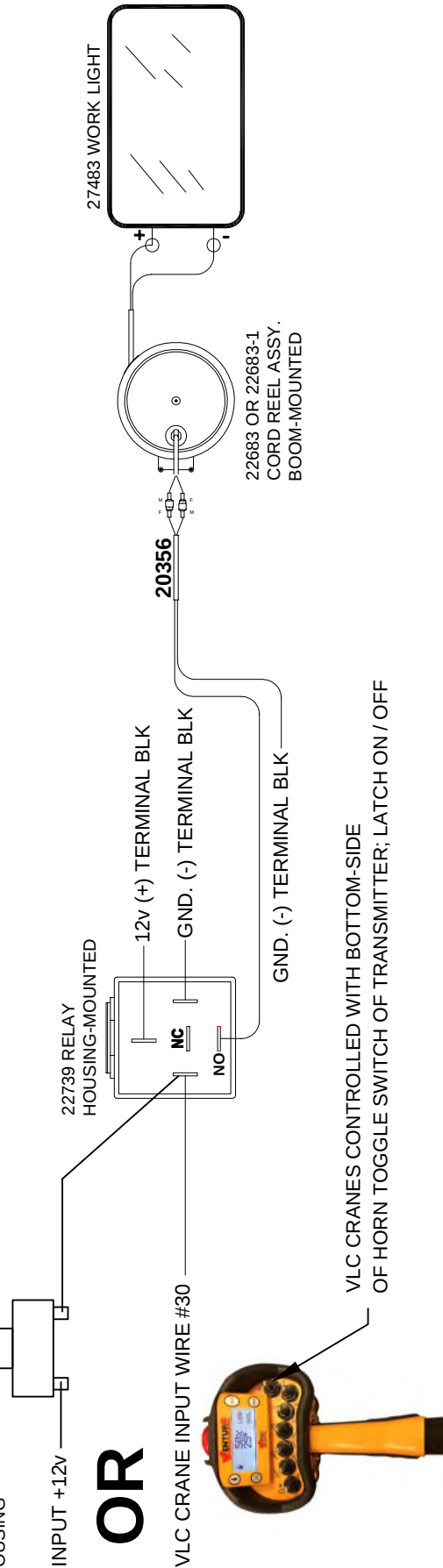
WORK LIGHT INSTALLATION

WORK LIGHT KITS - LEFT & RIGHT SIDE MOUNTING			
ITEM NO.	27484 (LT SIDE)	27484-1 (RT SIDE)	DESCRIPTION
1	1	1	WORK LIGHT, LED
2	-	1	CORD REEL ASSY, RT SIDE
3	1	-	CORD REEL ASSY, LT SIDE
4	1	1	WIRING HARNESS, A2B
5	1	1	RELAY, 12VOLT
6	1	1	TOGGLE SWITCH, SPDT
7	1	1	INST DWG, WORK LIGHT



NON-VLC CRANES REQUIRE A SEPARATE TOGGLE SWITCH (P/N 22476) MOUNTED TO UPPER CRANE HOUSING

WORK LIGHT CIRCUIT



VLC CRANES CONTROLLED WITH BOTTOM-SIDE OF HORN TOGGLE SWITCH OF TRANSMITTER; LATCH ON / OFF



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
WORK LIGHT INSTALLATION

DATE
02-11-20

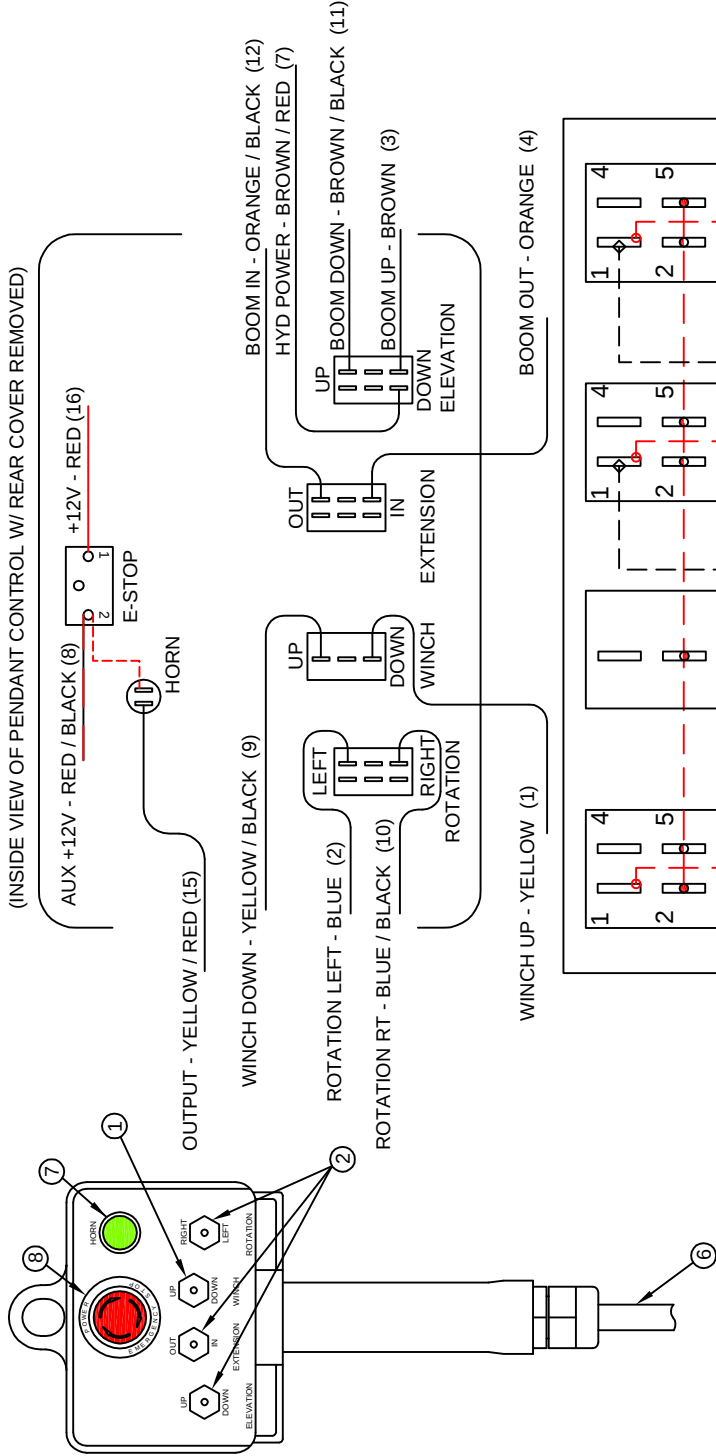
SECTION
C400

ALL CRANES WITH COMPACT A2B SYSTEM

SUPERSEDES
-

28185

21990 PENDANT; 4 FUNCTION ET CRANES, E-STOP / HORN



NOTE 1:

WIRE TERMINALS TO BE INSTALLED 'AFTER' ROUTING REPLACEMENT CORD ASSY THROUGH PENDANT HEAD AND PLUG HOUSING.

NOTE 2:

STOW OR CUT BACK UNUSED WIRES.

MODEL STARTING S/N

ET8KX 73800

ET12KX 69800

ET16KX 170000

ET18KX 95900

ET25KX 125300

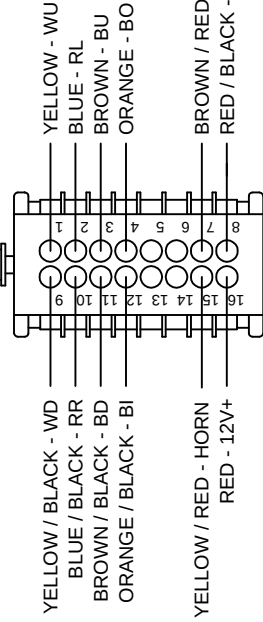
ET30KX 130300

ET36KXX 140300

FIG. 1 - TYPICAL SWITCH JUMPER LAYOUT. CONTACT POINTS =

BLACK - GROUND

8	1	22156	SWITCH; E-STOP
7	1	22155	SWITCH; PUSHBUTTON, HORN
6	1	22135	KIT; REPLACEMENT CORD ASSY
5	-	-	-
4	1	22472	INSERT; MALE, 16 + 1 POLE
3	1	22471	PLUG CASE; 16 + 1 POLE
2	3	22152	SWITCH; DPDT, MOMENTARY
1	1	22081	SWITCH; SPDT, MOMENTARY
ITEM	QTY	PART NO.	DESCRIPTION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE REPLACEMENT PARTS DWG & LIST

21990 PNDNT; 4 FNCTN ET CRNS, ESTP/HRN

DATE 01-12-17B

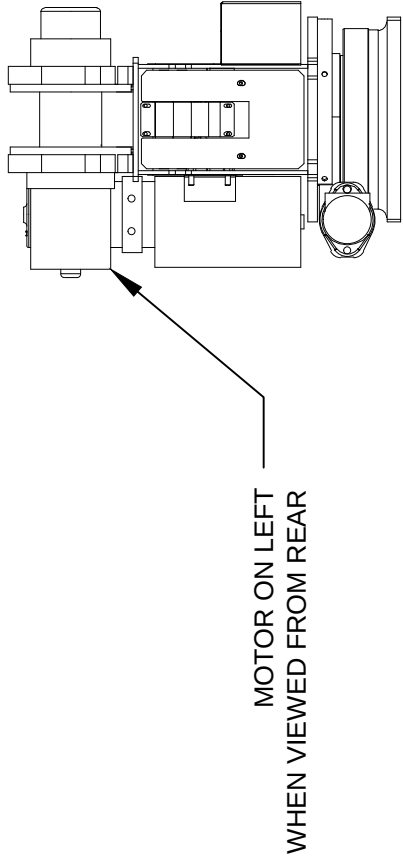
SUPSEDES 10-20-14A

SECTION C400

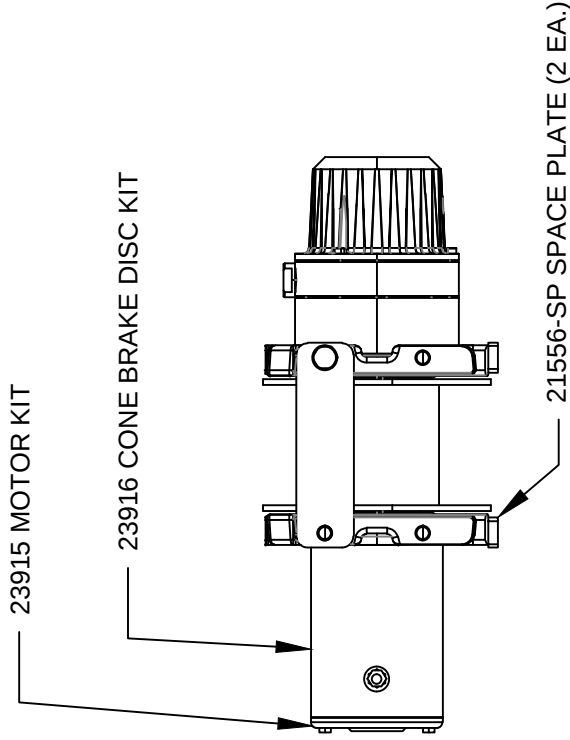
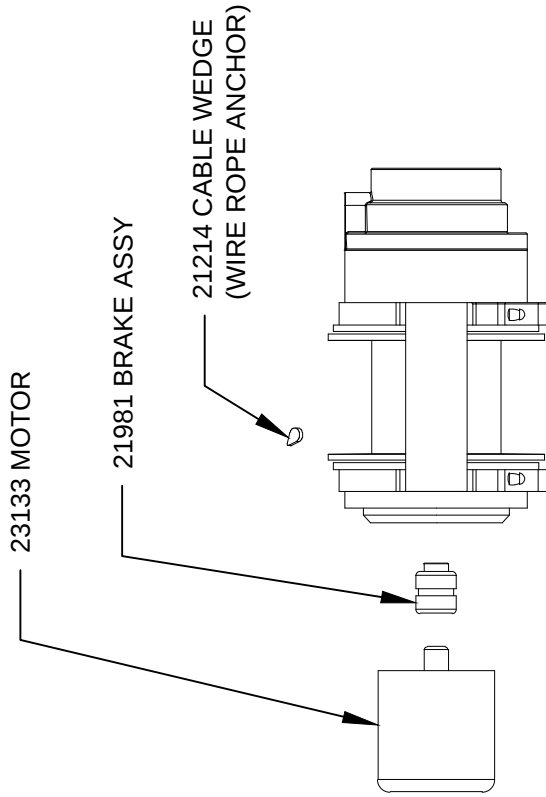
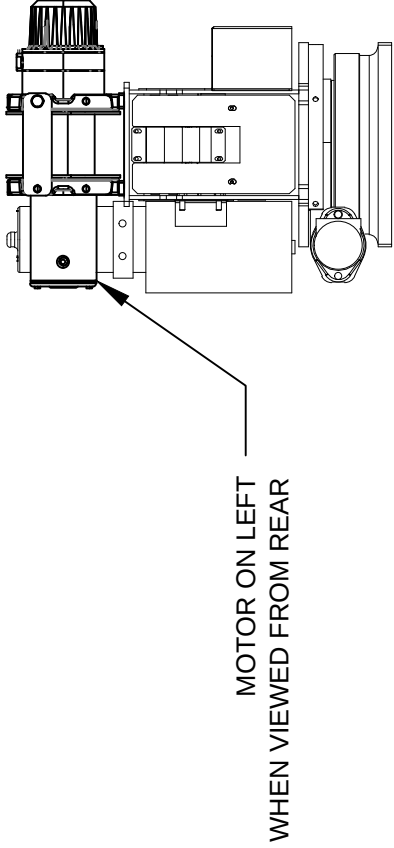
23075

21556 WINCH REPLACEMENT PARTS

WARN DC1600



COMEUP GTD-2200



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE

WINCH REPLACEMENT PARTS (DC1600)

ET8/12K(X)

DATE

10-24-22E

SUPERSEDES

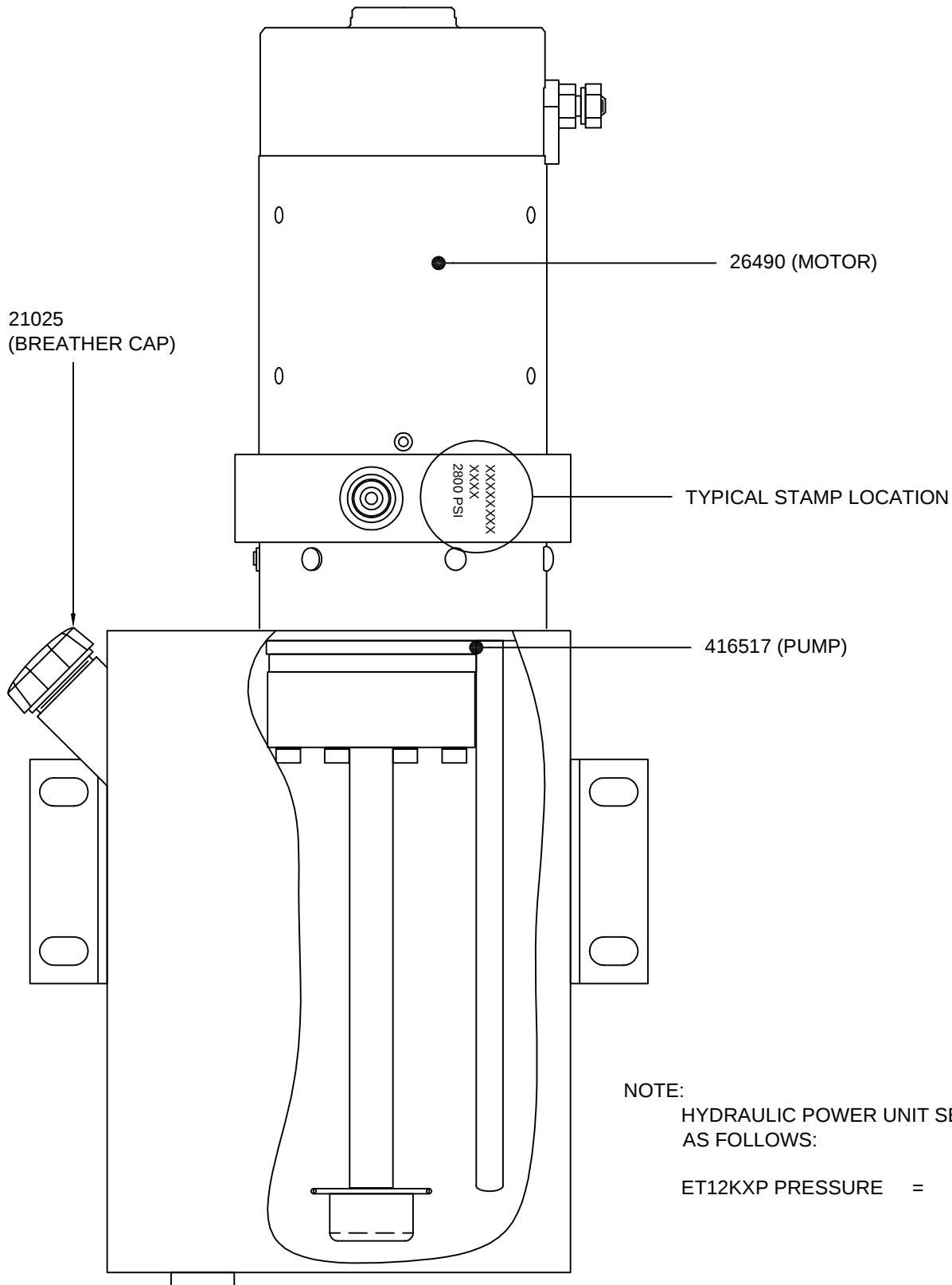
06-16-22D

SECTION

C400

21741

26489 HYD. POWER UNIT REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

HPU REPLACEMENT PARTS

ET12KXP

DATE

07-31-18

SUPERSEDES

-

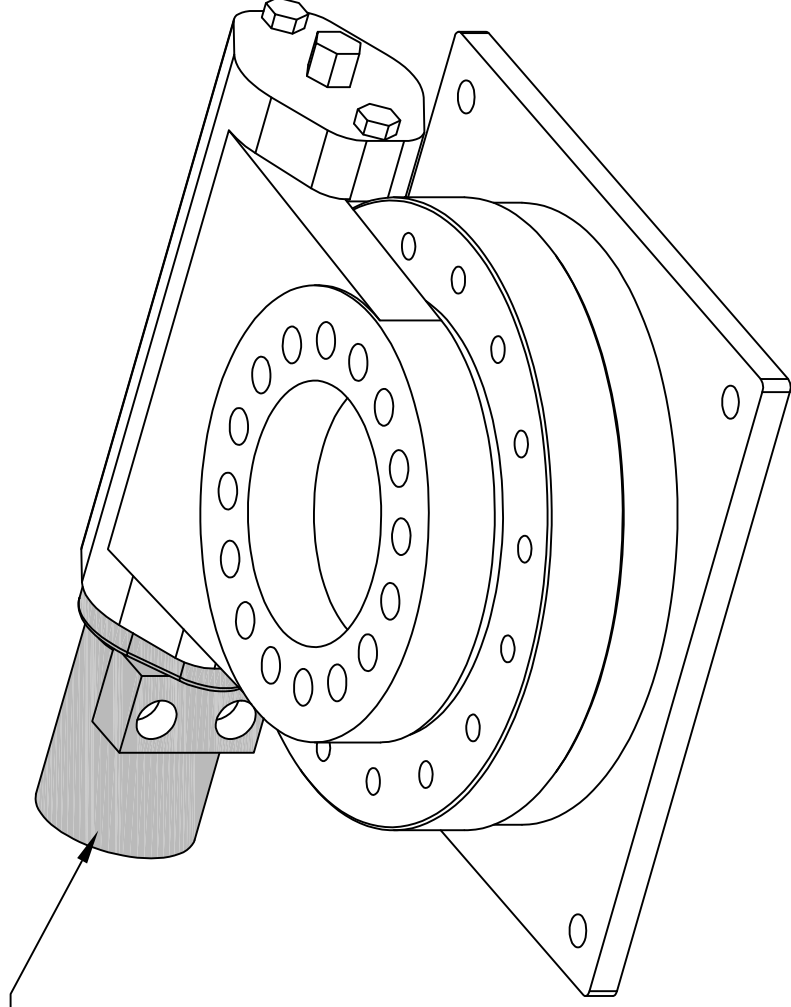
SECTION

C400

23787

21735 SLEWING SYSTEM REPLACEMENT PARTS

21123 MOTOR (ONLY)



21218 - MOTOR SEAL KIT



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

SLEWING SYSTEM REPLACEMENT PARTS

DATE

10-23-14B

SECTION

C400

SUPERSEDES

12-27-13A

ET8/12K & ET8/12/16/18KX ▲

21973

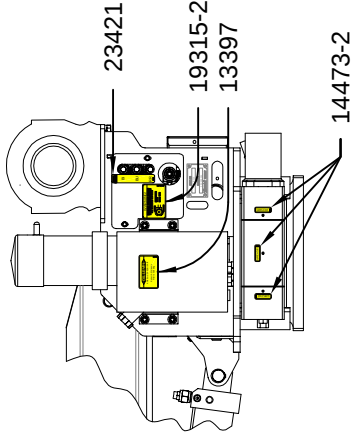
GREASE
14473-2

CH LUBES
13397

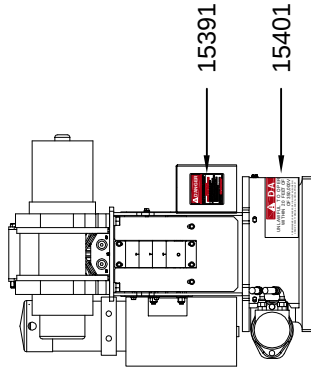
WARNING!
19315-2

BI BU RR
23421

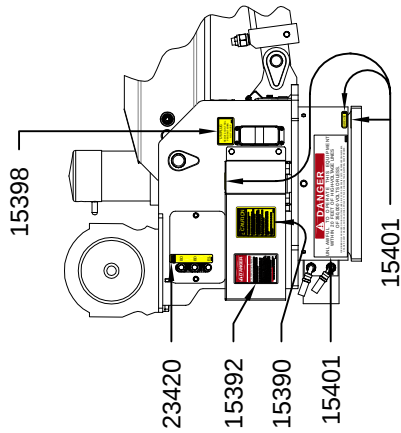
DANGER
15391



LEFT



BACK



RIGHT

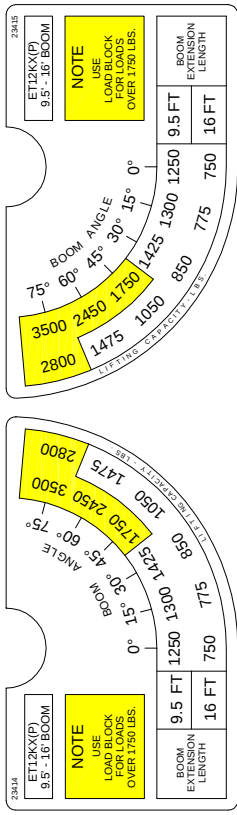
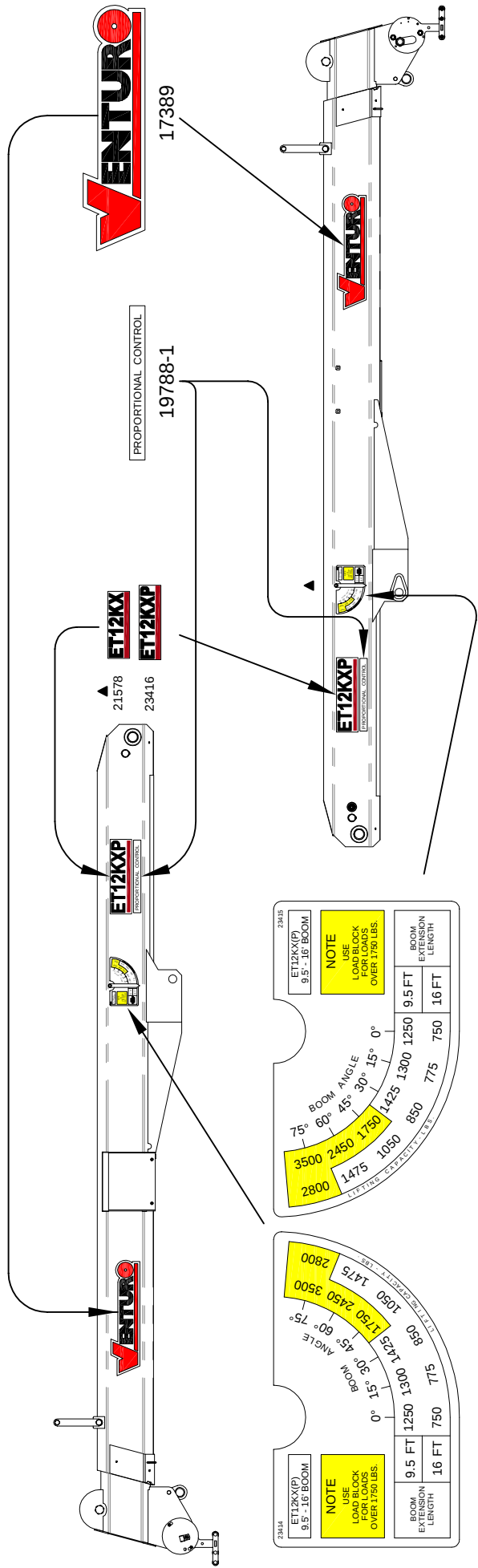
DANGER
15401

15392

BO BD RL
23420

CAUTION
15390

UNPLUG
15398



23414

23415

	VENTURO INDUSTRIES LLC CINCINNATI, OHIO		TITLE	DECAL PLACEMENT	DATE	SECTION
	ET12KX(P), 9-16' BOOM				05-24-19C	C400
					SUPERSEDES	
					11-07-18B	23424

23418 (ET12KX, 9-16' NON-PROP) FIELD SERVICE LABEL KIT

PART NO.	QTY	DESCRIPTION
14473-2	6	DECAL; GREASE
17389	2	DECAL; VENTURO LOGO, MEDIUM
23415	1	DECAL; BOOM CAPACITY, RIGHT, ET12KX(P) 9-16' BOOM
23414	1	DECAL; BOOM CAPACITY, LEFT, ET12KX(P) 9-16' BOOM
21578	2	DECAL; MODEL, ET12KX
13397	1	DECAL; OIL LEVEL
23420	1	DECAL; DIRECTIONAL VALVE, MANUAL OVERRIDE, RIGHT
23421	1	DECAL; DIRECTIONAL VALVE, MANUAL OVERRIDE, LEFT
23427	1	IDWG; FIELD SERVICE LABEL KIT
23424	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL; VENTURO CRANES
15397	1	KIT; ACCIDENT PREVENTION SIGNS

15397 ACCIDENT PREVENTION SIGNS		
PART NO.	QTY	DESCRIPTION
15390	1	DECAL; CAUTION, OPERATIONS
15391	1	DECAL; DANGER, NOT PASSENGER LIFT
15392	1	DECAL; DANGER, ELECTRICAL HAZARD SIGN
15393	4	DECAL; DANGER, ELECTRICAL HAZARD
15394	1	APPLICATION INSTRUCTIONS
15398	1	DECAL; UNPLUG PENDANT
15401	1	DECAL; UNLAWFUL TO OPERATE
15513	1	DECAL; MASTER DISCONNECT
22317	1	DECAL SHEET; VENTURO, COMPLIMENTARY
20927	1	DECAL; CRANE SAFETY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
23417 FIELD SRVC LABEL KIT
ET12KX, 9-16' BOOM (NON-PROP)

DATE
05-23-19
SUPERSEDES
-

SECTION
C400
23427



VENTURO CRANES LIMITED WARRANTY POLICY

Venturo products are built to last...we guarantee them.

As a purchaser of any new Venturo product covered by warranty, you will receive 1 year of the most complete coverage available...and, at no added cost to you.

1-Year Limited Warranty Policy

This limited policy warrants new products of Venturo to be free from defects in material and workmanship for a period of one (1) year from date of original installation. OEM products or accessories purchased by Venturo as part of or offered with our product will carry the OEM manufacturer's respective warranty. Our warranty covers:

- ***Repair or replacement of product***
- ***Labor to repair or replace product***
- ***Freight to return and/or replace product***

We shall not be liable for any contingent liabilities arising out of the improper function of any products. Warranty shall become void if the product is improperly installed, modified, damaged, abused or used for application other than intended use. There is no warranty of merchantability, fitness for a particular purpose, warranty arising from course of dealing or usage of trade, or any other implied or expressed warranty, except as made specifically herein. This warranty supersedes all previous warranties, written or implied.

Warranty Claims

Venco Venturo Industries LLC will make a good faith effort for prompt correction or other adjustment with respect to any product, which proves to be defective after our inspection and within the warranty period. Before any repairs are attempted or before returning any product, your Venturo Distributor is required to obtain a warranty claim number. This number is necessary for any claim to be considered. To obtain a warranty claim number, Venturo requires the model and serial number. Only authorized Venturo Distributors can perform warranty. For the name and address of your local Venturo Distributor call the **Warranty Claim Department - 513-772-8448**.

WARNING - It is the responsibility of the installer to ensure the installation is completed according to the manufacturer's recommendations, ensure the ultimate user understands how to operate product in a safe manner, and understands the need for regular service and maintenance by an authorized Venturo Distributor. No modifications or alterations may be made to any Venturo product without the expressed written consent of Venco Venturo Industries LLC. Installation of any Venturo product must be done by an authorized Venturo Distributor, to the standards of the industry; including maintenance, service and affixing of all instruction, safety and warning decals. Users should be instructed as to the safe operation at time of delivery. Maintenance, service, operation and safety warning decals are available on request from Venco Venturo Industries LLC.

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