

OWNER'S MANUAL

INST-23770

*EGAADC-P0*0*

Pages 1 - 60

PARTS & INSTALLATION MANUAL

ET12KXP-16'

Included in this manual:

ET12KXP-16'

- 3,500 lbs Electric Telescopic Service Crane
- 9 – 16 ft Powered, Single-Stage, Boom Extension
- Proportional Controls

VENCO VENTURO INDUSTRIES LLC
12110 BEST PLACE | CINCINNATI, OHIO 45241
800-226-2238



This manual also available online at www.venturo.com.

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12-00073_VNT1 WARRANTY PAGE

SECTION 100

DESCRIPTION

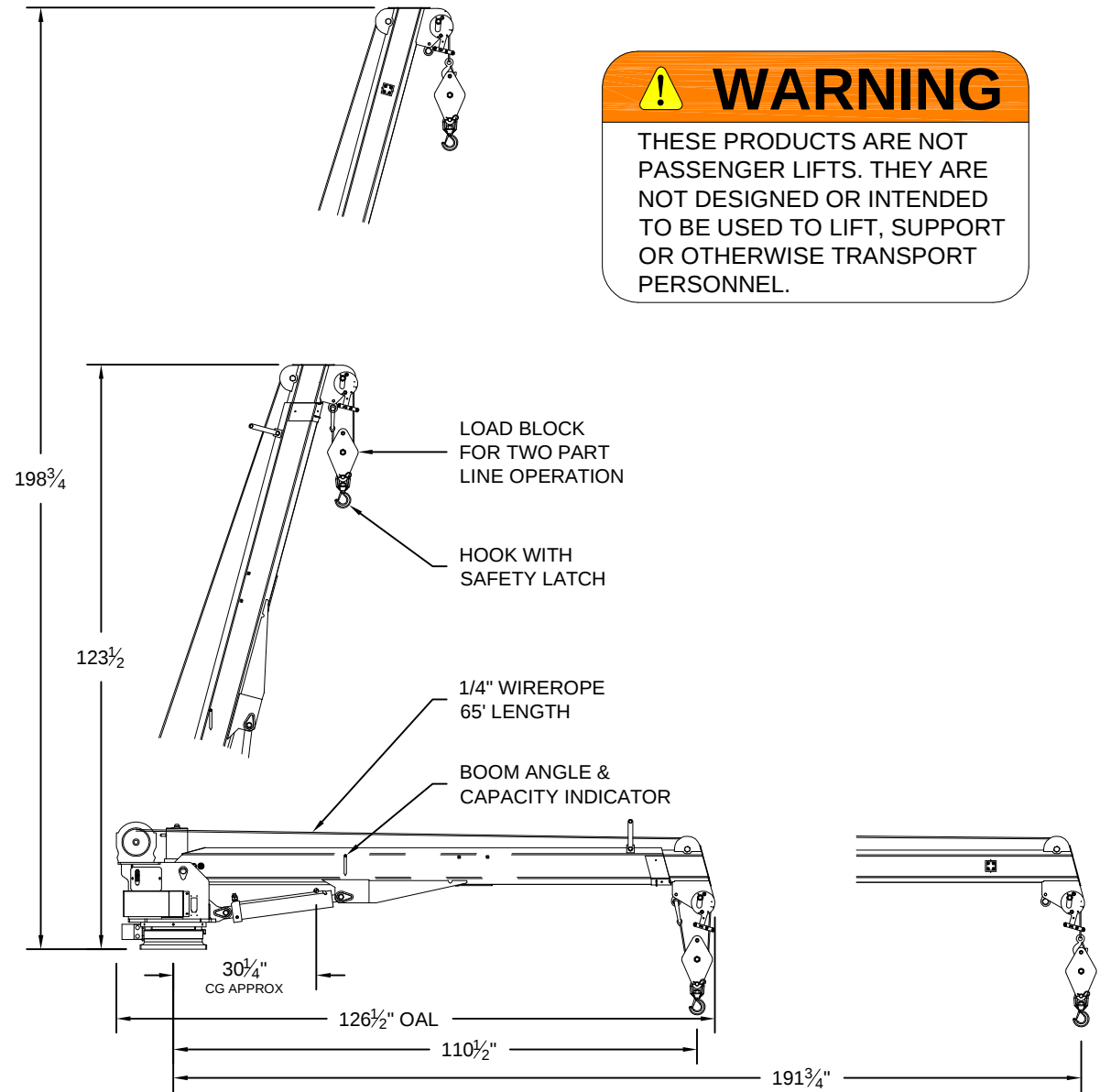
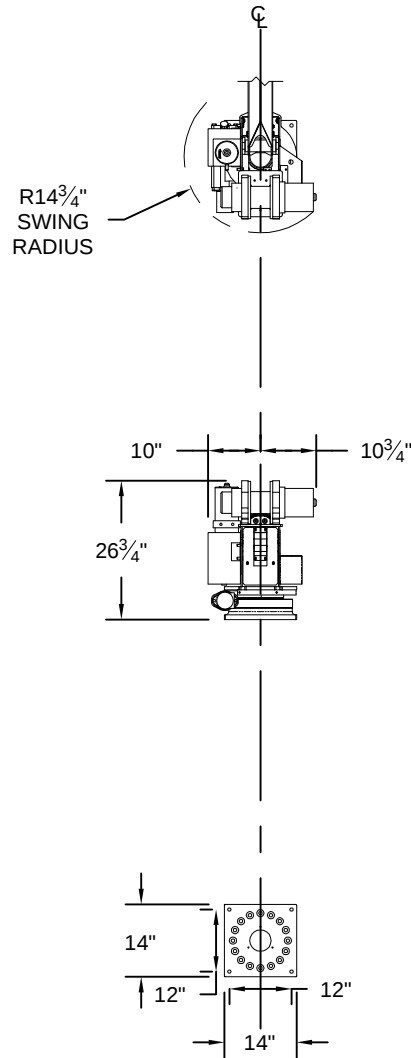
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SPECIFICATIONS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

INSTALLATION DIMENSIONS; ET12KXP, 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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
INSTALLATION DIMENSIONS

ET12KXP, 9 - 16' BOOM

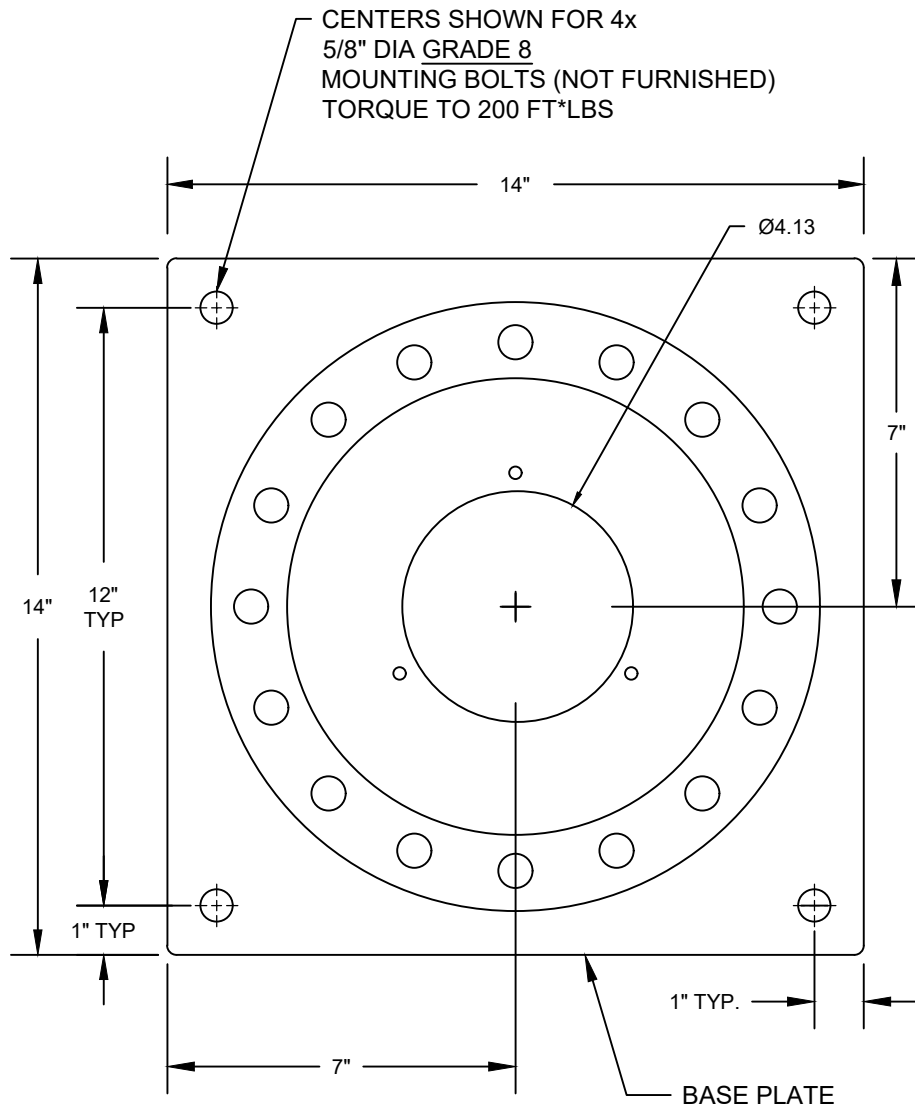
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07-30-18

SUPERSEDES
-

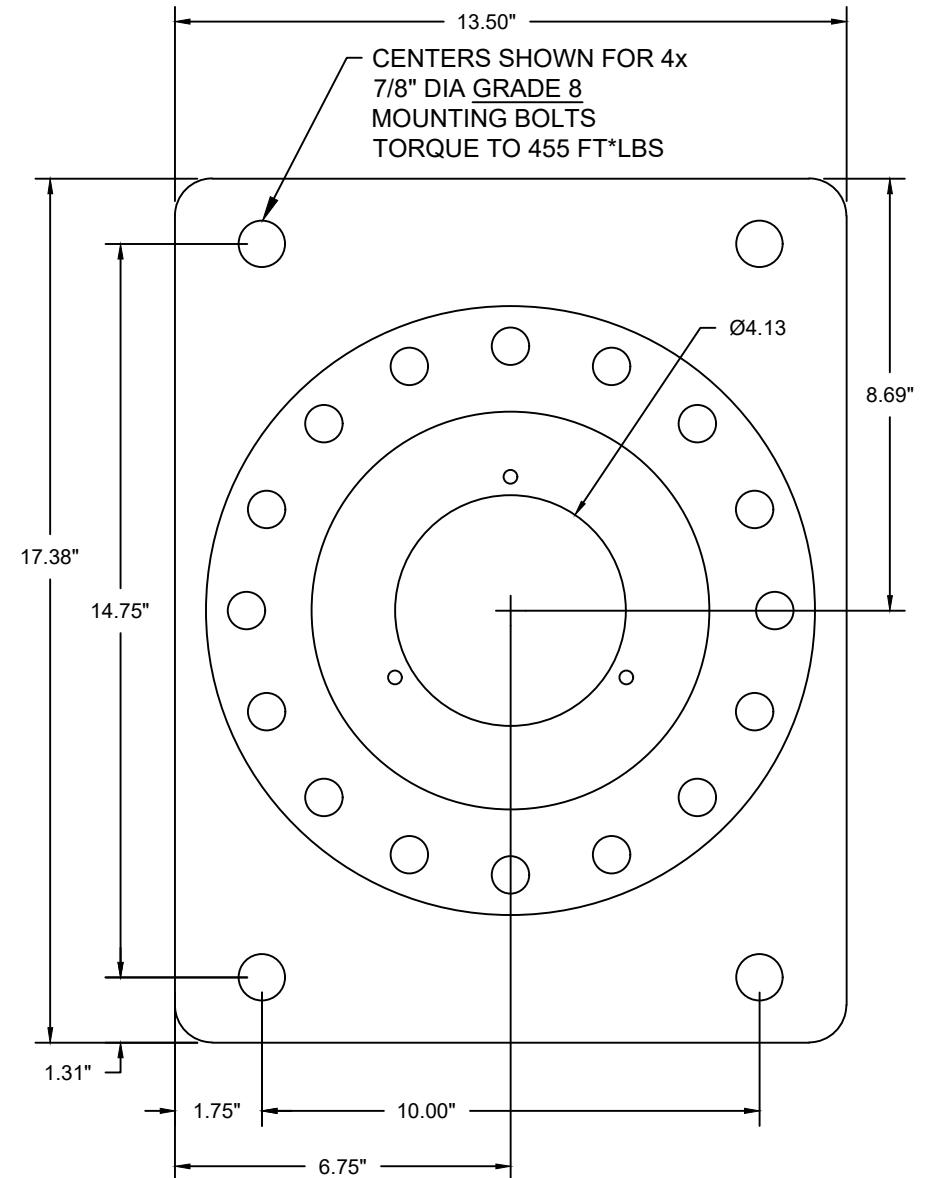
SECTION
C100

23771

21735 - SQUARE



21735-WRB/CRB - RECTANGULAR



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

21735 BASE MOUNTING DIMENSIONS

ET8/12/16/18 CRANES

DATE _____

11-12-24H

	SUPERSEDES
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03-06-23G

SECTION

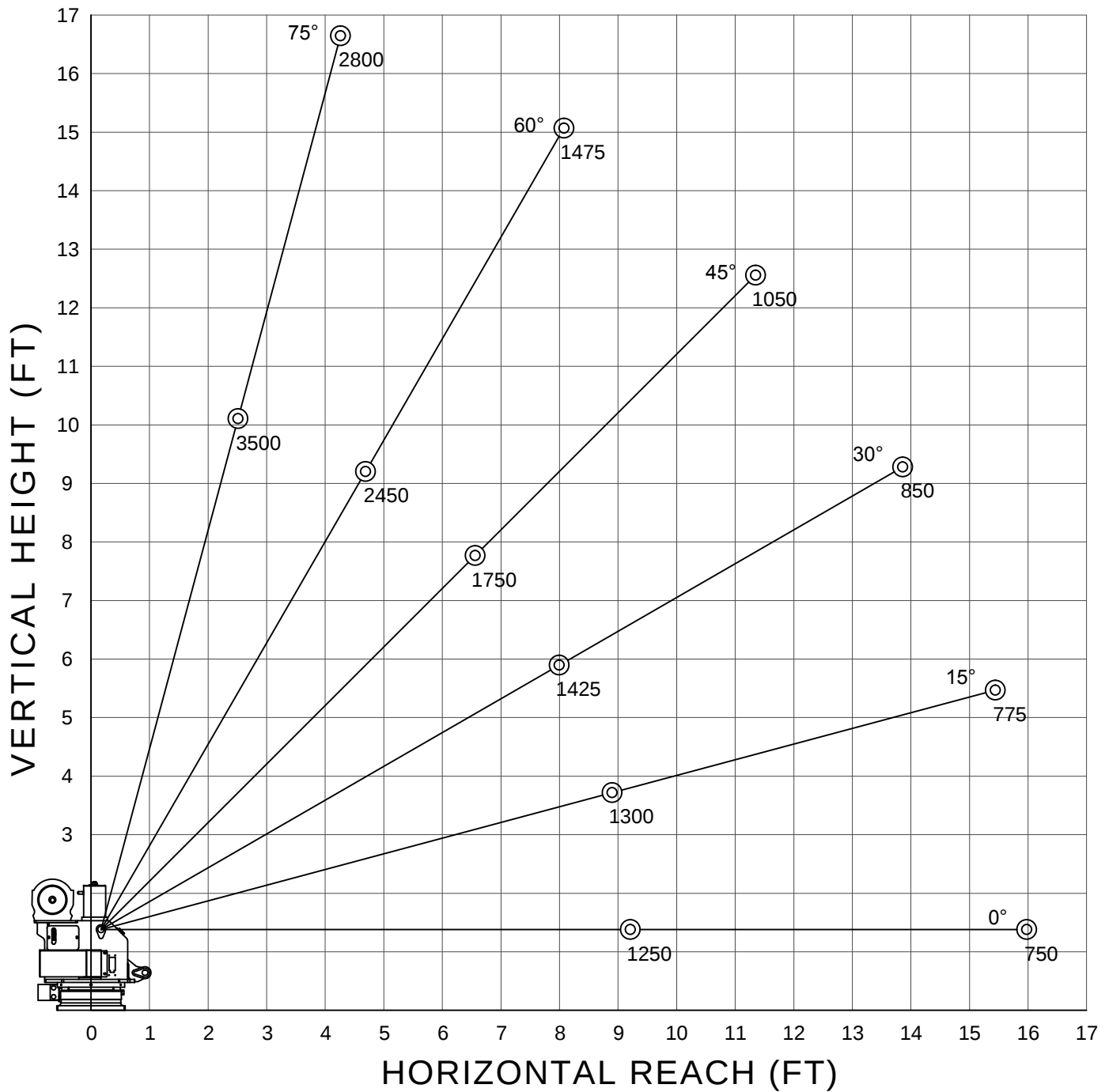
C100

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



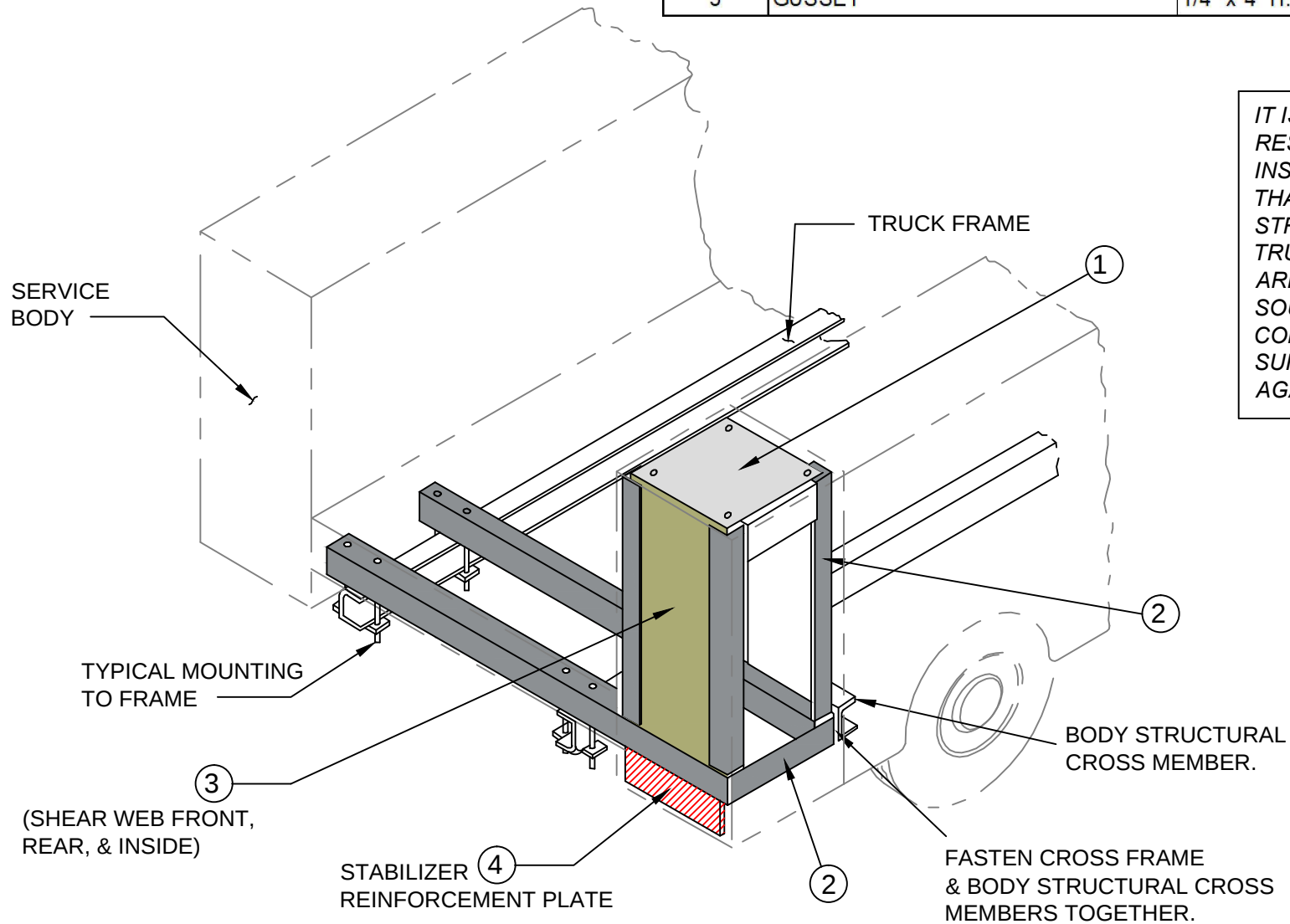
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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



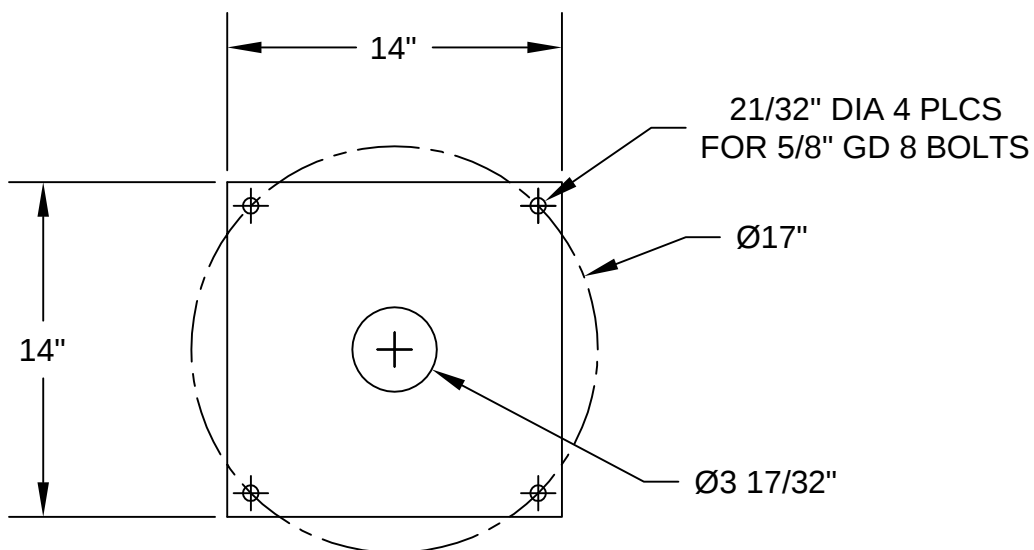
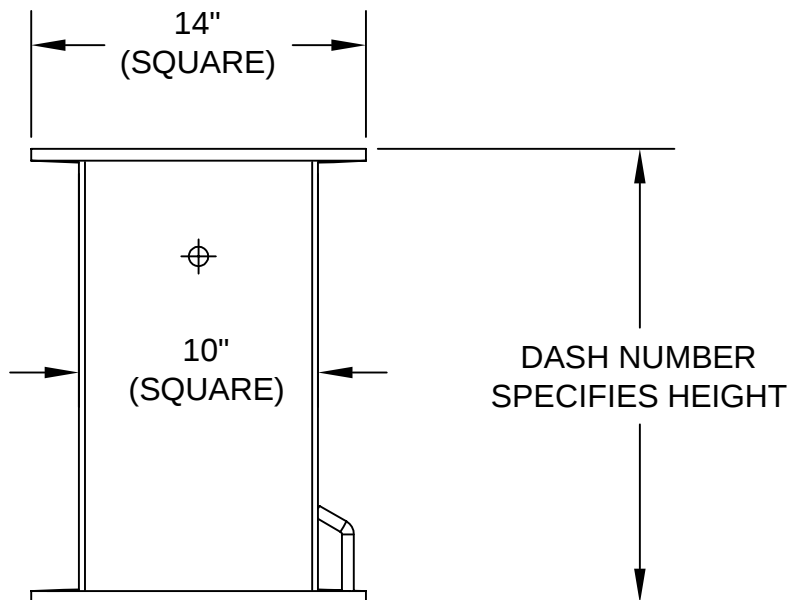
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
INSTALLATION DRAWING
ET6/8/12K(X)

DATE
03-06-23D
SUPERSEDES
01-28-15C

SECTION
C100
16941

21571-XX MOUNTING PEDESTAL



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

21571 MNTNG PEDESTAL

DATE

03-08-19D

SECTION

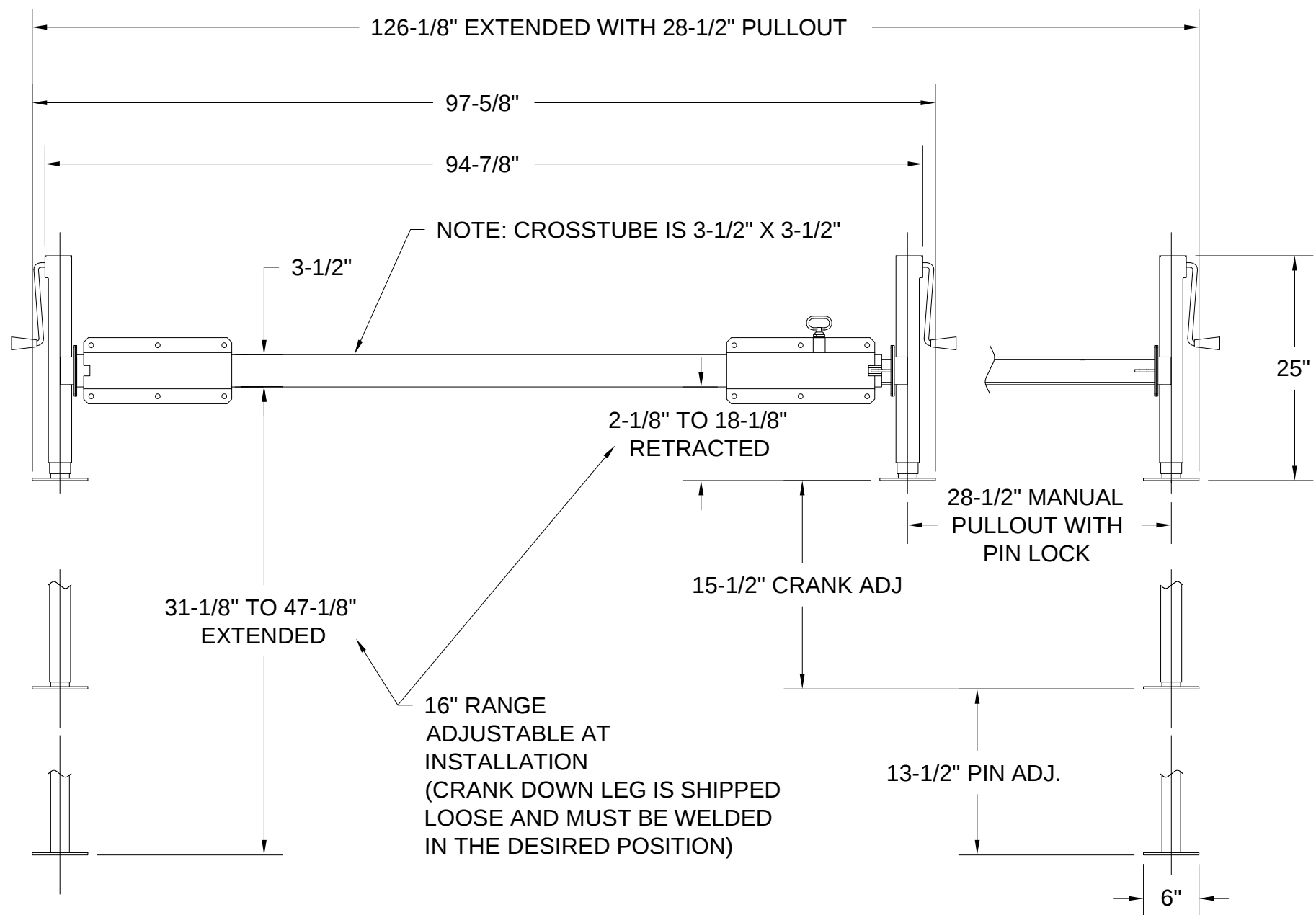
C100

SUPERSEDES

11-20-14C

ET8/12 SERIES CRANES

21594



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DRAWING
18500-CD STABILIZER

DATE
12-20-13B
SUPERSEDES
01-13-05A

SECTION
C100
22686

13500 STABILIZER

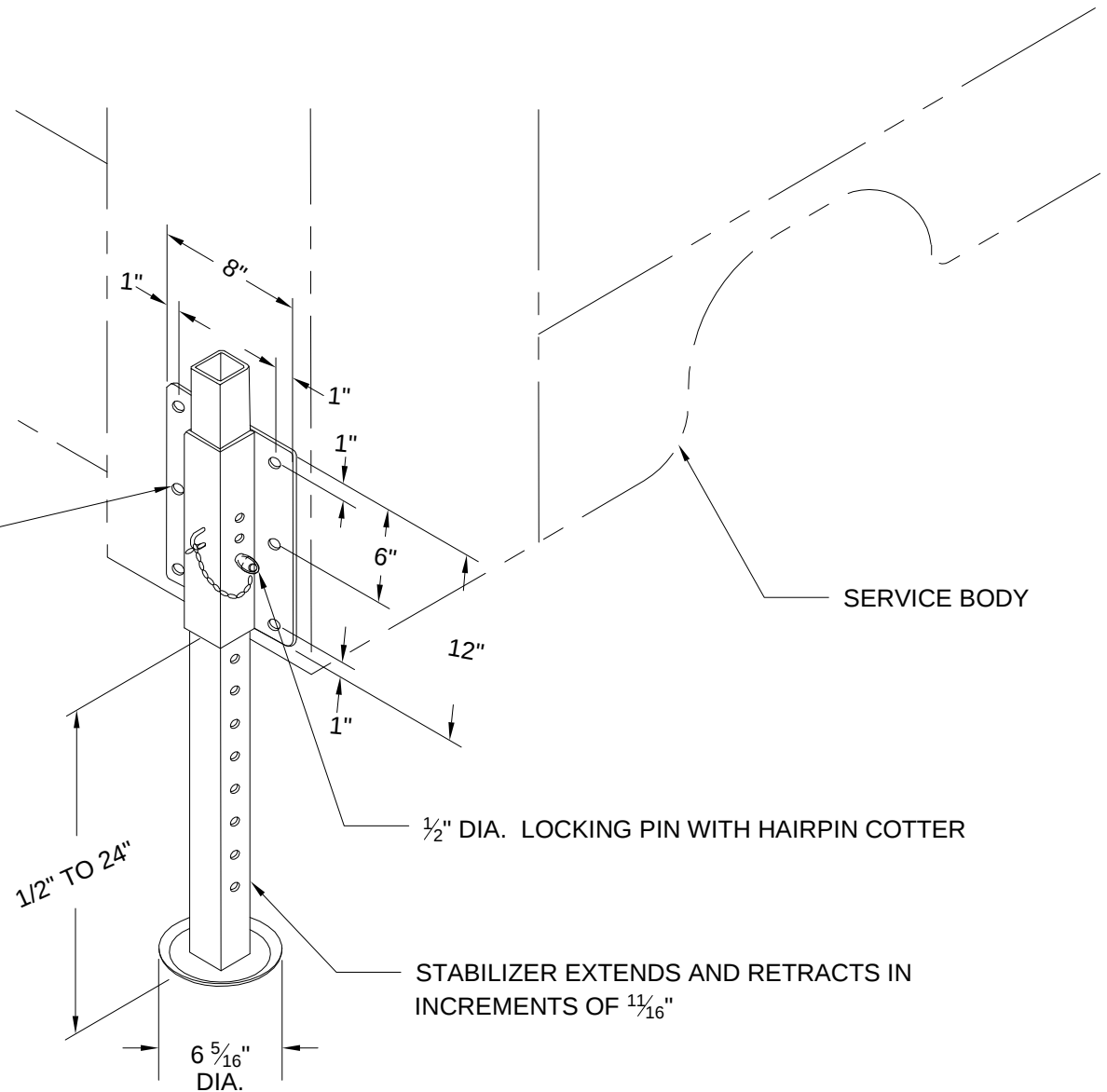


WARNING

- These products are not for use with passenger lifts. They are not designed or intended to be used with devices that lift, support or otherwise transport personnel.

(6) $\frac{3}{8}$ " DIA. BOLT HOLES

TYPICAL INSTALLATION OF
MANUAL STABILIZER ON
VEHICLE WITH SERVICE BODY.



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE

INSTALLATION DRAWING

ET6/8/12K(X)

DATE

12-20-13F

SUPERSEDES

10-02-12E

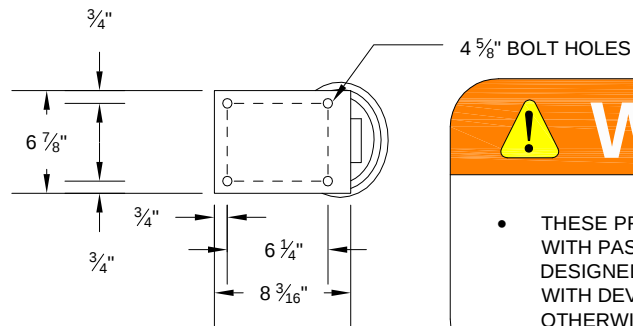
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C100

13509

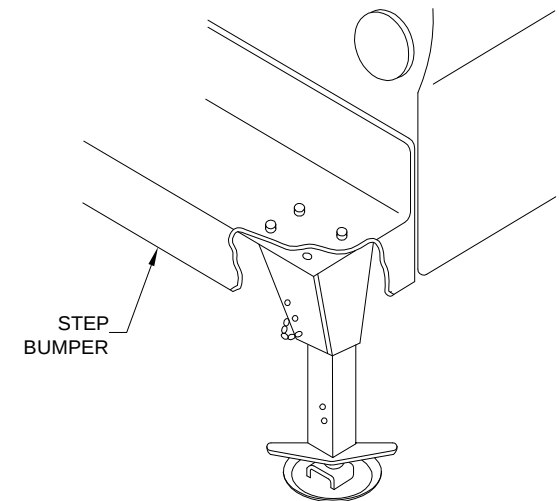
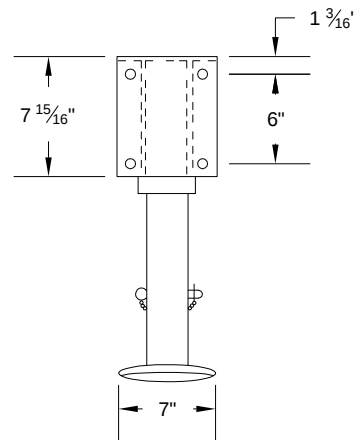
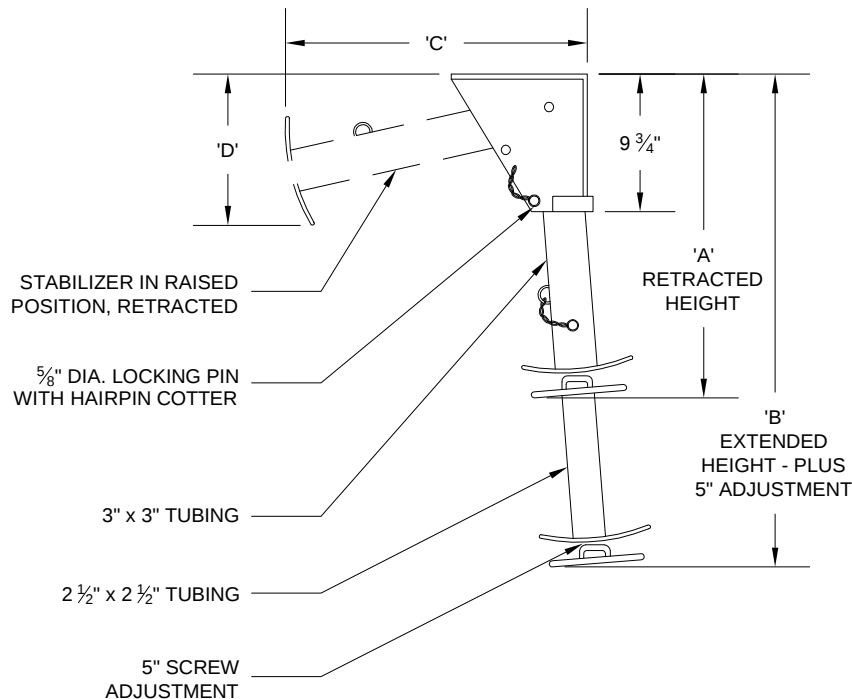
23960 STABILIZER SERIES, ET/HT25 SERIES CRANES

PART NO.	DESCRIPTION	'A'	'B'	'C'	'D'
23960-1	SHORT STABILIZER	20 1/2"	28 1/2"	21"	7 1/4"
23960-2	LONG STABILIZER	28 1/2"	44 1/2"	29"	10 1/2"

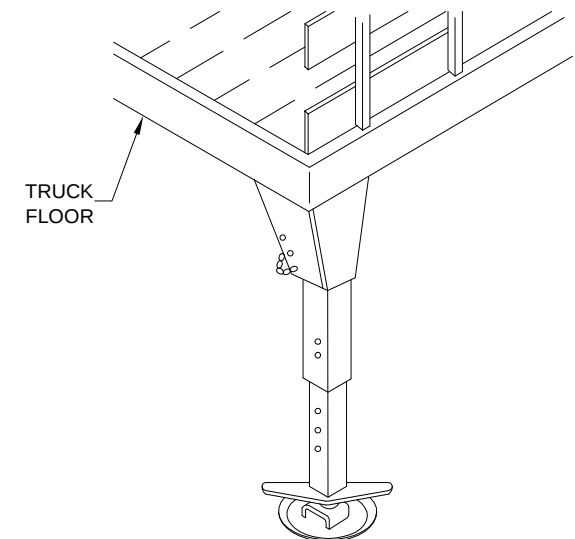


WARNING

- THESE PRODUCTS ARE NOT FOR USE WITH PASSENGER LIFTS. THEY ARE NOT DESIGNED OR INTENDED TO BE USED WITH DEVICES THAT LIFT, SUPPORT OR OTHERWISE TRANSPORT PERSONNEL.



TYPICAL SHORT STABILIZER INSTALLATION



TYPICAL LONG STABILIZER INSTALLATION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

INSTALLATION DRAWING

ET6/8/10/12/25K(X), HT25KX

DATE

12-20-13H

SUPERSEDES

04-25-12G

SECTION

C100

123960

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

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VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

SAFETY & HZRDS, CONT.

DATE

01-29-15

SECTION

C150

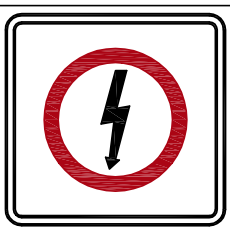
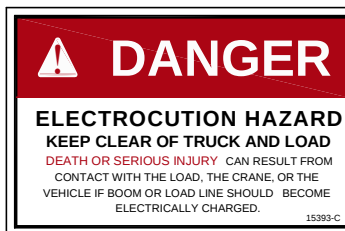
ELECTRIC CRANES

SUPERSEDES

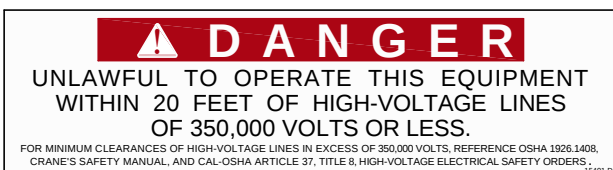
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850712

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
HAZARD APPS & INFO
ET/HT CRANES

DATE
02-21-14M
SUPERSEDES
12-20-13L

SECTION
C150
15394

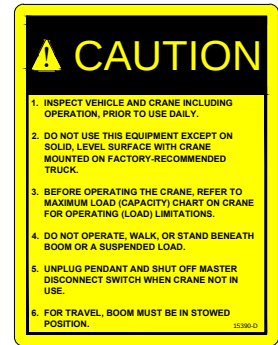
DECAL #: 15390

DESCRIPTION: CAUTION, INSPECT VEHICLE & CRANE...

PURPOSE: TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



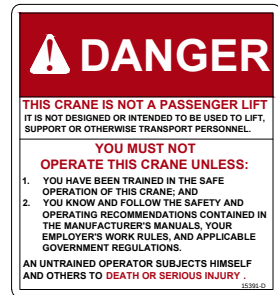
DECAL #: 15391

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



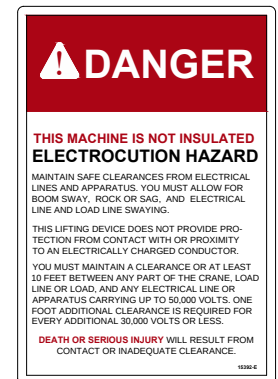
DECAL #: 15392

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



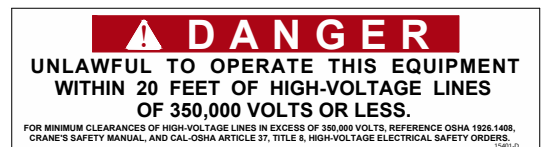
DECAL #: 15401

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



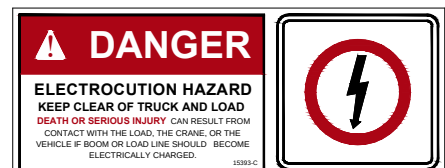
DECAL #: 15393

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: CONDUCTIVE GREASE

FUNCTION: To show the operator where to apply grease.

QUANTITY: Varies

PLACEMENT: Near grease fittings.



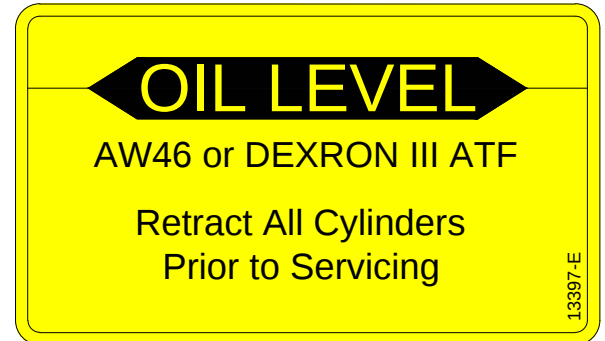
PART NO.: 13397

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
11-12-19E

SUPERSEDES
12-23-13D

SECTION
C150

21354

PART NO.: 23420

DECAL: MANUAL OVERRIDE DECAL (ET12KXP)

FUNCTION: To show the manual override ports.

QUANTITY: 1

PLACEMENT: Right side of housing.



PART NO.: 23421

DECAL: MANUAL OVERRIDE DECAL (ET12KXP)

FUNCTION: To show the manual override ports.

QUANTITY: 1

PLACEMENT: Left side of housing.



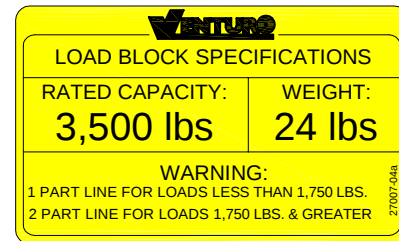
PART NO.: 27007-04a (ET12KXP)

DECAL: LOAD BLOCK CAPACITY DECAL

FUNCTION: To show the capacity of load block.

QUANTITY: 2

PLACEMENT: Each side of load block.



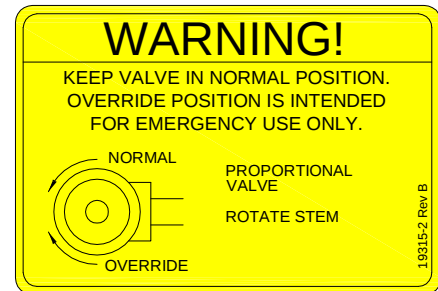
▲
PART NO.: 19315-2

DECAL: MANUAL OVERRIDE (PROPORTIONAL)

FUNCTION: To show operator how to override proportional valve

QUANTITY: 1

PLACEMENT: Left side of Mechanism, near valve stem



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

ADDITIONAL DECALS

ET12KXP

DATE

08-30-18A

SUPERSEDES

07-30-18

SECTION

C150

23773

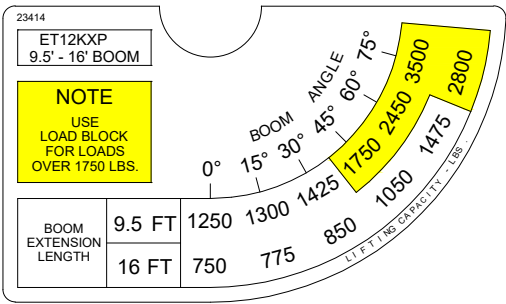
PART NO.: 23414 (LEFT)

DECAL: CRANE CAPACITY

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

QUANTITY: 1

PLACEMENT: One on left side of boom.



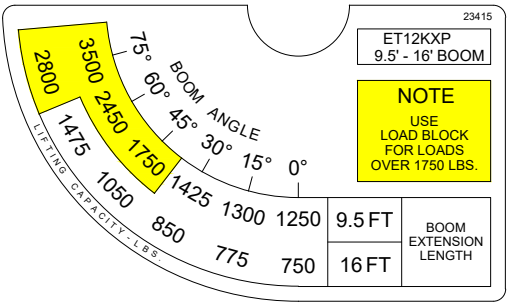
PART NO.: 23415 (RIGHT)

DECAL: CRANE CAPACITY

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

QUANTITY: 1

PLACEMENT: One on right side of boom.



PART NO.: 28560

DECAL: MODEL ET12KXP

FUNCTION: To show the model of the crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.



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MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE	DATE	SECTION
MODEL/CAPCTY DECALS	11-15-23	C150
ET12KX(P)-16'	SUPERSEDES	28561
	-	

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

ELECTRIC CRANES

DATE
07-30-18X

SUPERSEDES
09-27-17W

SECTION
C200

711105

RECOMMENDED CIRCUIT BREAKER TABLE

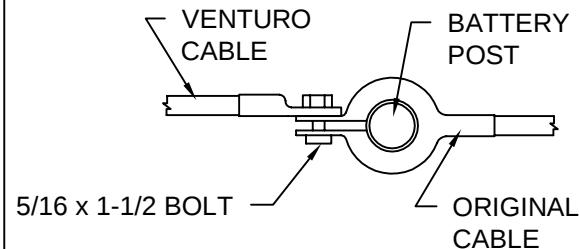
CRANE	DESCRIPTION	PART NO.
CT310KX	250 AMP, MAN RESET	22946-250
DT7	250 AMP, MAN RESET	22946-250
CE-1500-FB	150 AMP, MAN RESET	22946-150
CE6K	150 AMP, MAN RESET	22946-150
CT200X	250 AMP, MAN RESET	22946-250
ET6K	250 AMP, MAN RESET	22946-250
ET8/12K(X)	250 AMP, MAN RESET	22946-250
ET12KXP	300 AMP, MAN RESET	22946-300
ET16/18KX-16'	250 AMP, MAN RESET	22946-250
ET16/18KX-20'	300 AMP, MAN RESET	22946-300
ET25/30KX	300 AMP, AUTO RESET	22946-300
ET36KX	300 AMP, AUTO RESET	22946-300

BATTERY REQUIREMENTS

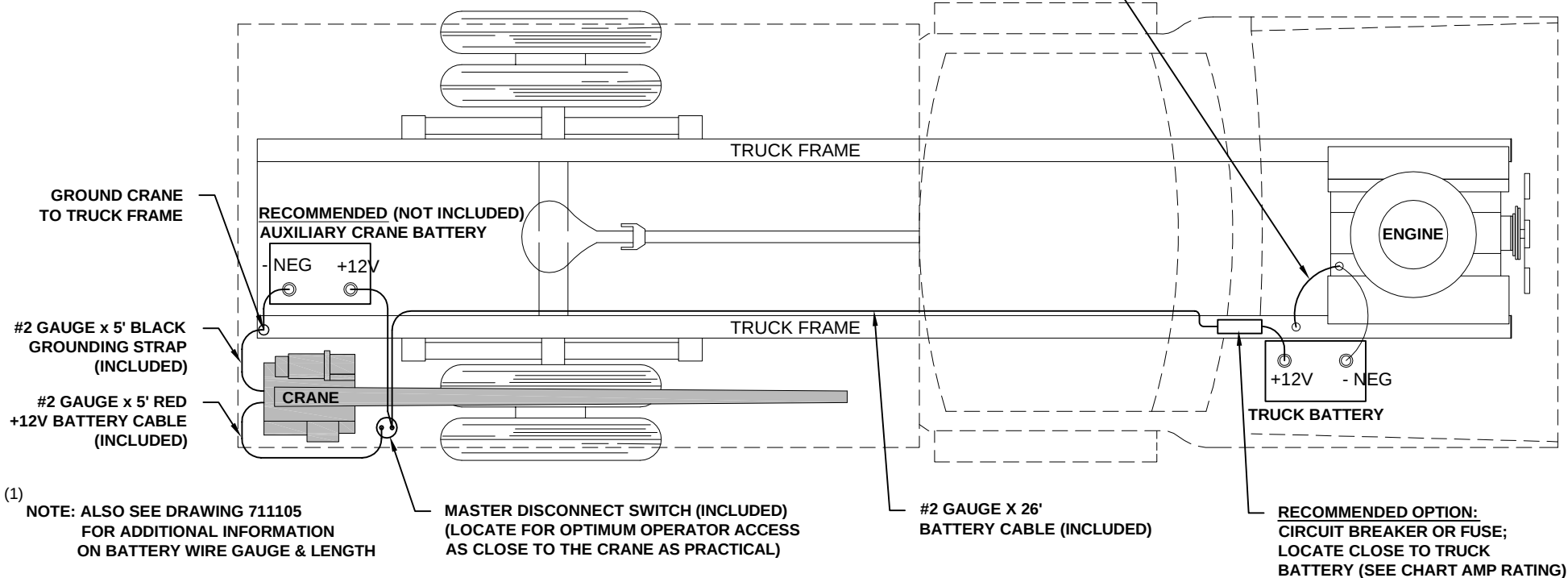
- 12 VOLT VEHICLE BATTERY REQUIREMENTS
 - 625 COLD CRANKING AMPS (AT 0° F)
 - 160 MINUTES RESERVE CAPACITY
 - 102 PLATES, 105 AMP-HR
- (1) • 12 VOLT AUXILIARY BATTERY REQUIREMENTS
 - SEE MINIMUM WIRE GAUGE AND BATTERY SIZE

NOTE: OPERATING WITH THE VEHICLE BATTERY 'ONLY' IS PERMISSIBLE, BUT NOT RECOMMENDED.

RECOMMENDED BATTERY TERMINAL ATTACHMENT



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

ET CRANES

DATE

09-03-20M

SUPERSEDES

07-30-18L

SECTION

C200

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 925 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, 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

03-16-23F

SUPERSEDES

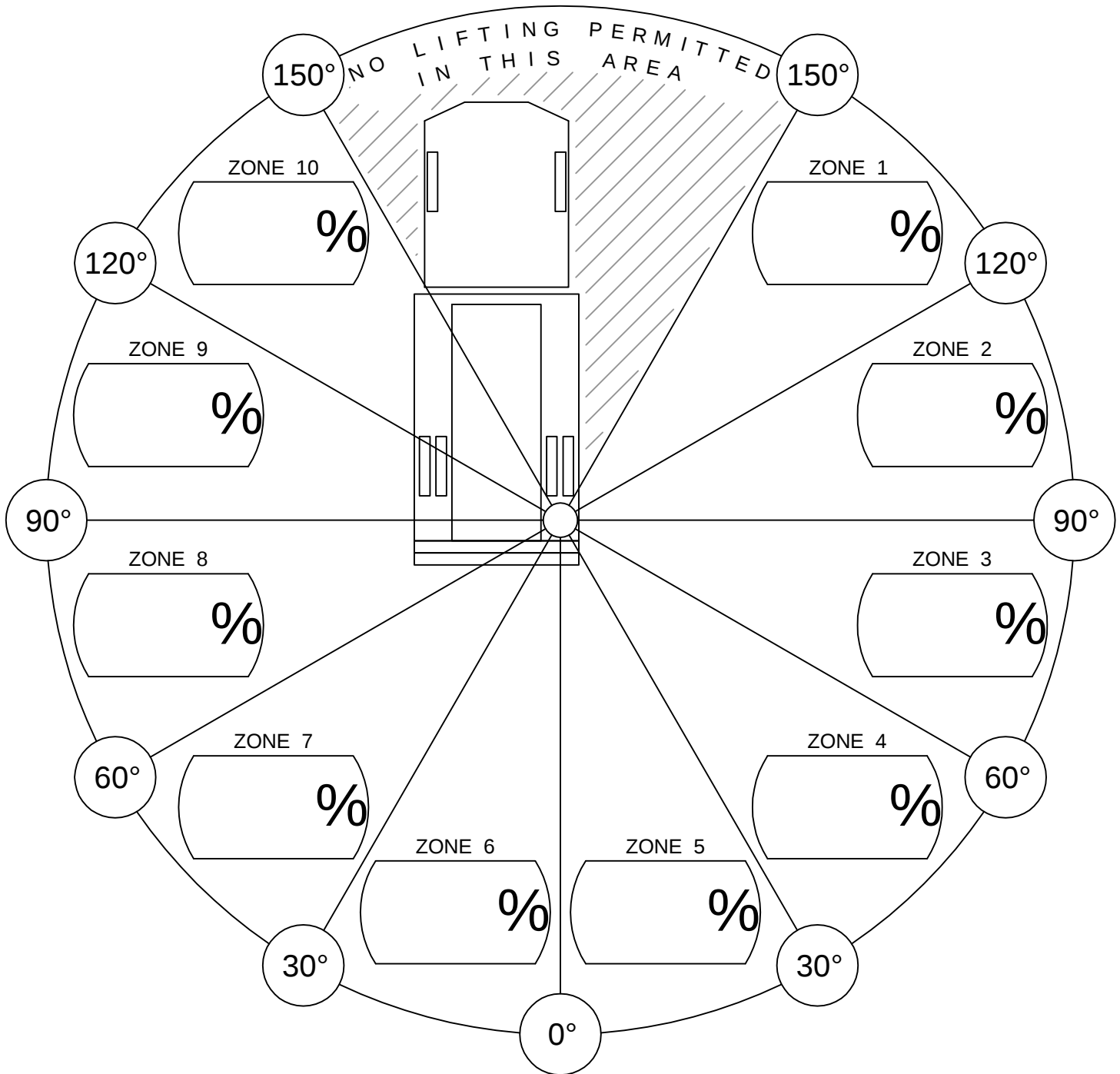
11-23-21E

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

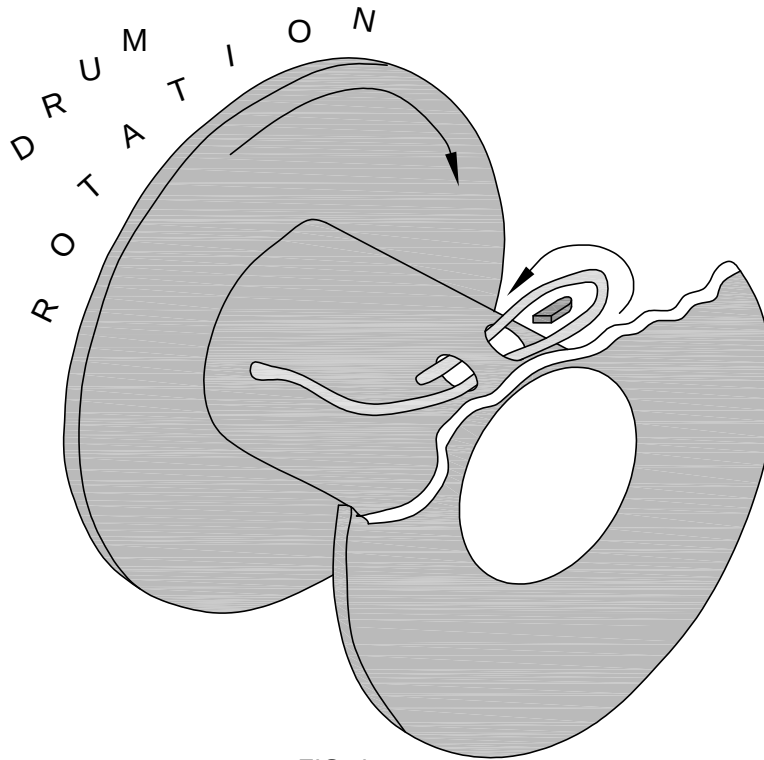


FIG. 1

- 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

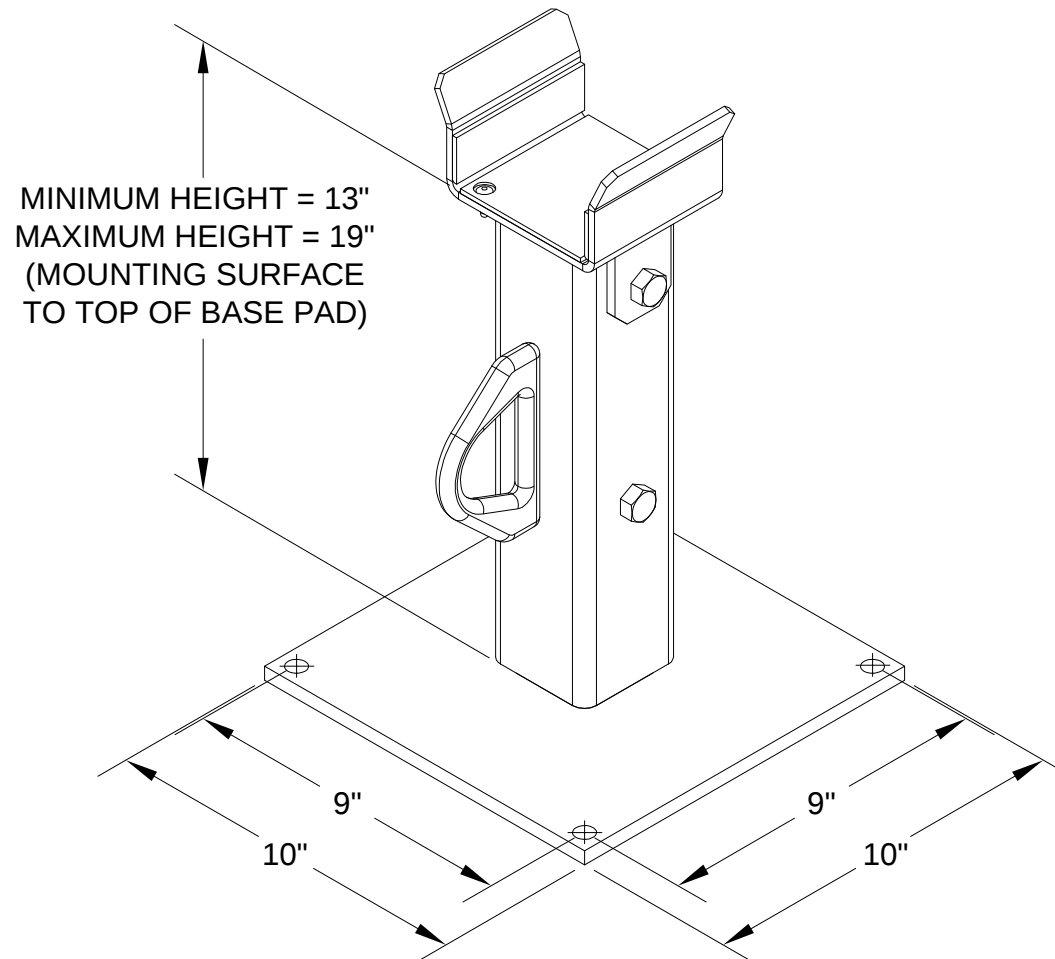
ET6K & LARGER CRANES

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
SUPERSEDES
12-26-13A

SECTION
C200
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, [▲]pendant 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

06-22-23K

SECTION

C200

ET6/8/12 SERIES CRANES

SUPERSEDES

03-08-19J

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.

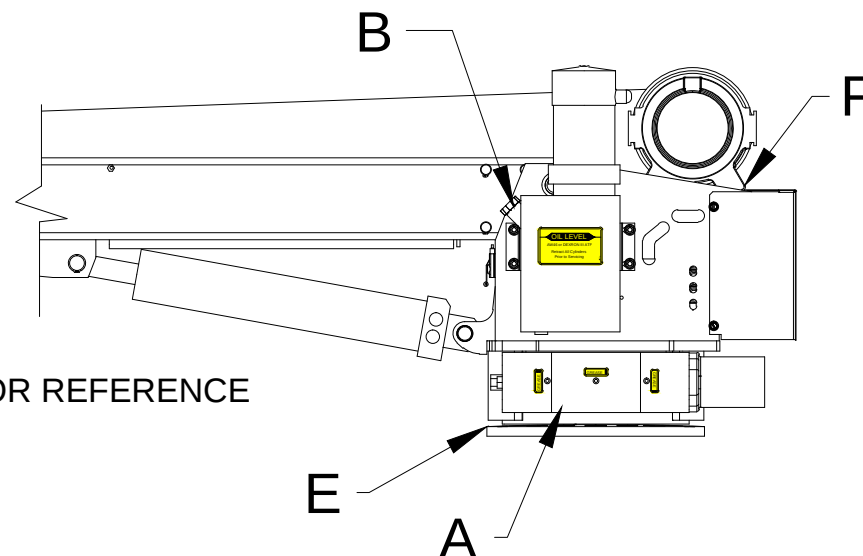
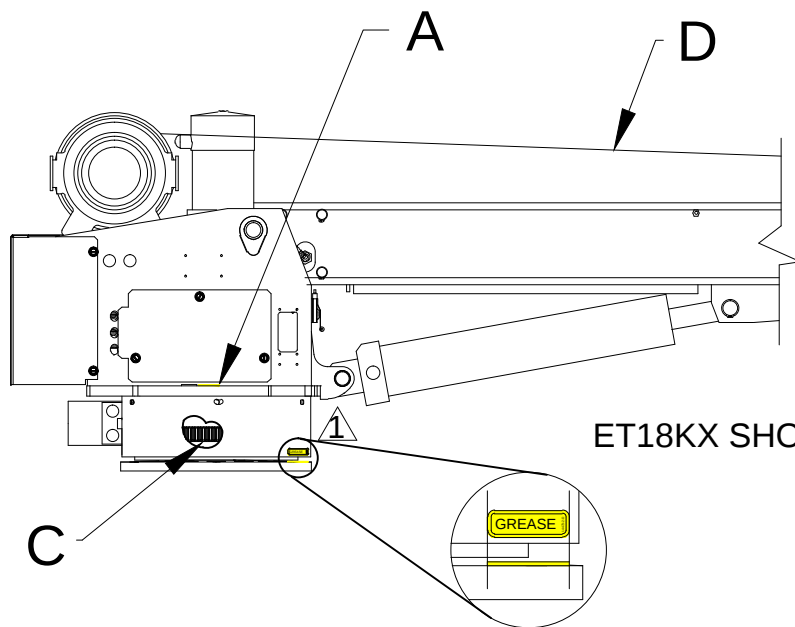


MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DWG
ET6/8/10/12 SERIES

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

SECTION
C200
900530C



ET18KX SHOWN FOR REFERENCE

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 Base Mounting Bolts	Square Base: Torqued to 200 ft-lbs		Time of Truck Service
-	Check Torque of Base Mounting Bolts	Rectangular Base: Torqued to 455 ft-lbs		Time of Truck Service
F	Check Torque of Winch Mounting Bolts	Bolts should be torqued to 35 ft-lbs*		Time of Truck Service

* 32 FT-LBS. FOR ET8/12 WITH GTD-2200 COMEUP WINCH. SEE PAGE 21741 FOR WINCH IDENTIFICATION.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

LUBRICATION & MAINTENACE CHART

ET8/12/16/18 SERIES CRANES

DATE

03-06-23L

SUPERSEDES

01-30-23K

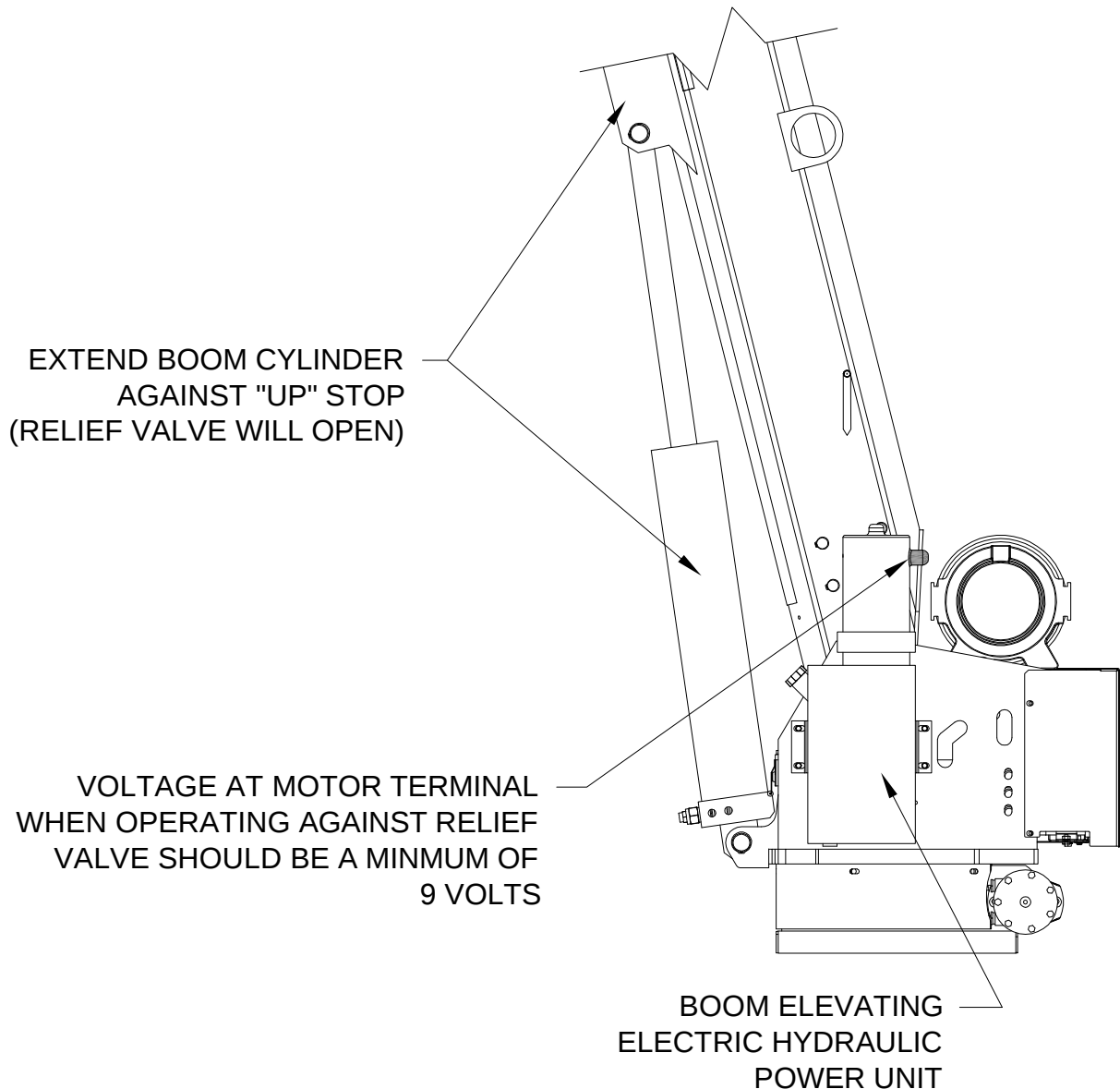
SECTION

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:

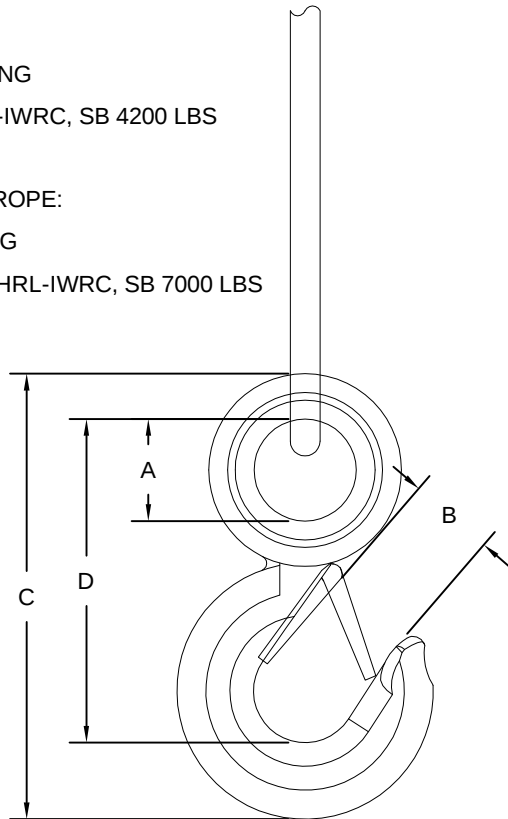
3/16" DIA, 50' LONG

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



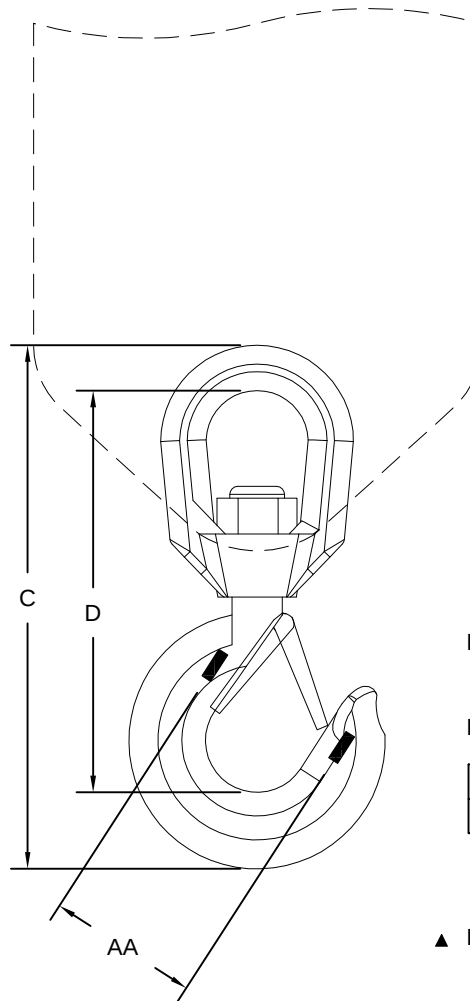
WIRE ROPE HOOK:

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"



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

WIRE ROPE & HOOKS SPECIFICATIONS

ET6/8/12 SERIES CRANES

DATE

03-08-19G

SUPERSEDES

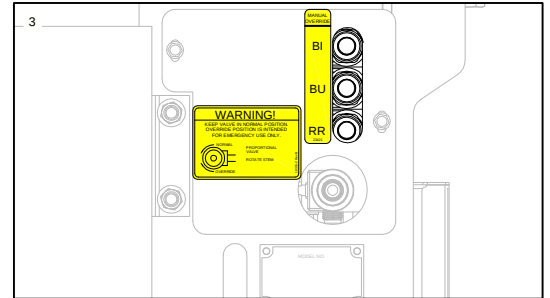
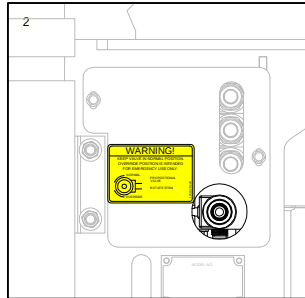
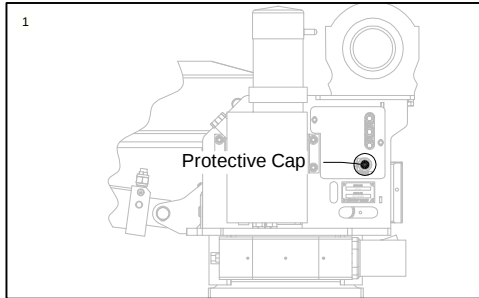
05-09-16F

SECTION

C300

23225

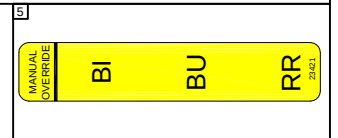
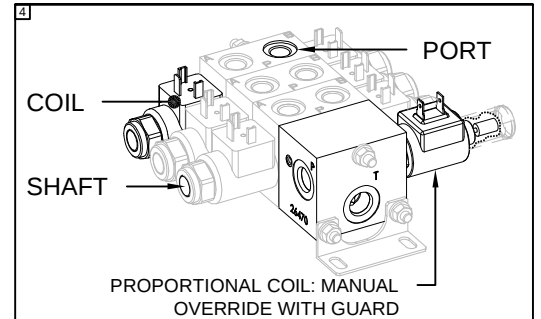
!! READ ALL INSTRUCTIONS BEFORE PERFORMING MANUAL OVERRIDE PROCEDURES !!



Each valve station incorporates [2] hydraulic ports and [2] coils. Manual override shafts are located in the center of the coils (see figure 4). 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 3 & 5).

3-STATION FUNCTIONS:

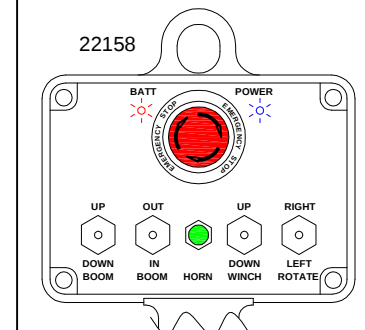
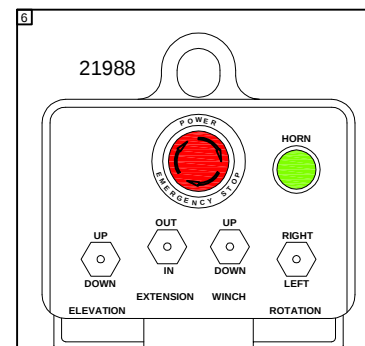
RR = Rot. Right	RL = Rot. Left
BU = Boom Up	BD = Boom Down
BI = Boom In	BO = Boom Out



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 HARNESSES SHOULD BE REMOVED BEFORE OPERATING A CRANE IN MANUAL OVERRIDE !!

Procedure:

1. Turn Master disconnect switch to "ON"
2. Remove Protective cap (see figure 1)
3. Rotate Valve Stem Clockwise to close (see figure 2)
4. Power up the pendant / radio
 - 4.1. Twist EMERGENCY STOP button clockwise
5. On the crane, reference the function you wish to perform using the manual override decal (see figure 3)
6. Using a tool with a diameter of 1/8" or smaller, press the shaft inward and hold
7. Reference the functions listed on your pendant or radio (see figure 6)
8. Press the switch or button for the same function
9. If you need to change function,
 - 9.1. Release switch or button
 - 9.2. Remove tool from shaft
 - 9.3. Go to step 5



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAN. OVERRIDE INSTR.
ET PROPORTIONAL CRANES

DATE
03-08-19A
SUPERSEDES
07-30-18

SECTION
C200
23775

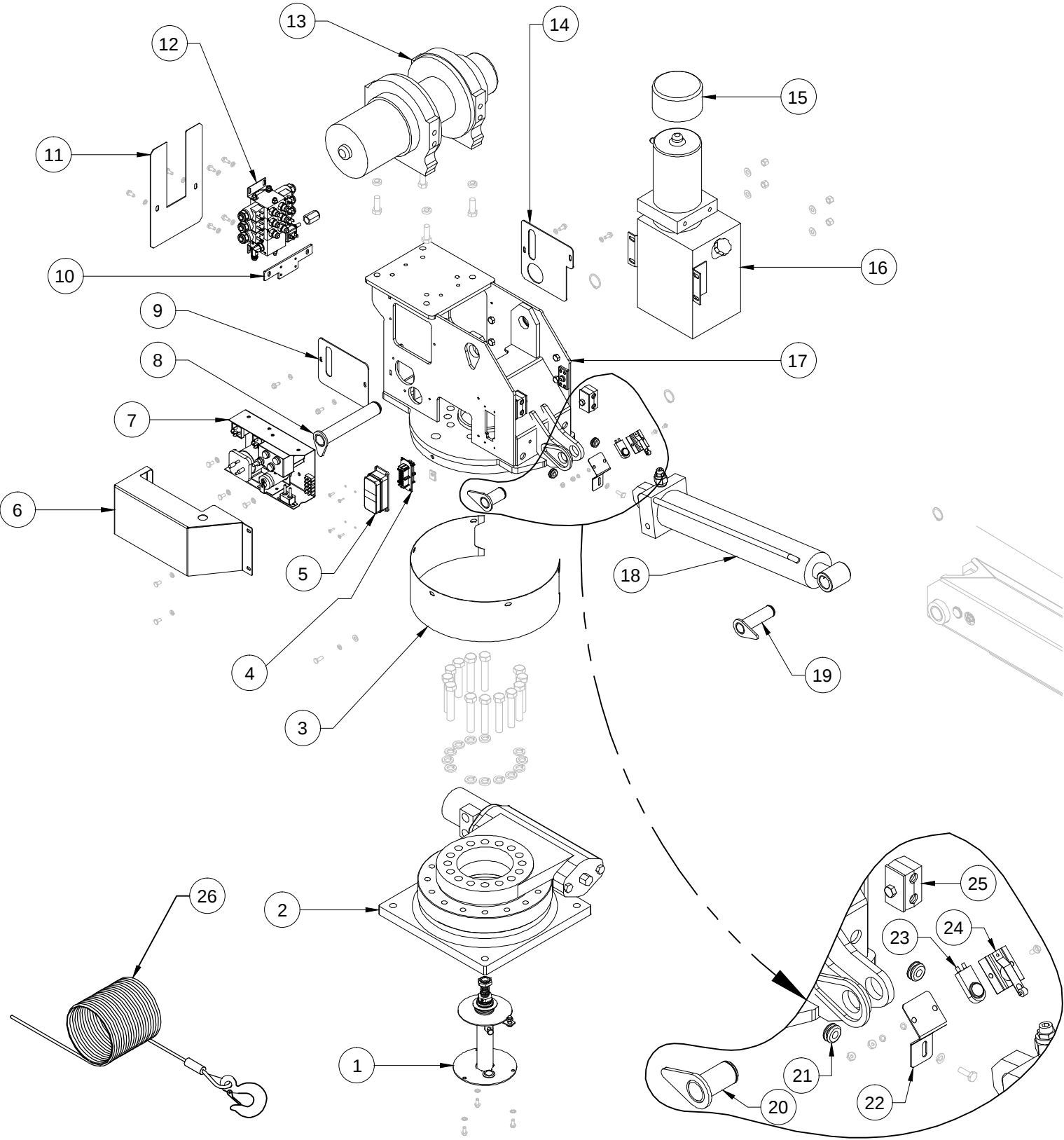
SECTION 400

REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

REPLACEMENT PARTS DRAWING; ET12KXP MECHANISM



REFERENCE DWG #23777 FOR REPLACEMENT PARTS LIST

 VENTURO [®] VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE REPLACEMENT PARTS DWG	DATE 02-07-22A	SECTION C400
	ET12KXP MECHANISM	SUPERSEDES 07-31-18	23776

REPLACEMENT PARTS LIST; ET12KXP MECHANISM, 9 - 16' BOOM

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	16780-2P8	SLIP RING; 2-POLE, SWIVEL ASSY
2*	1	21735	SLEW DRIVE; SQUARE BASE
		21735-1	SLEW DRIVE; RECTANGULAR BASE
3	1	21735	SLEW DRIVE; ET8/12/16/18
4	1	22482	FEMALE INSR; 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
11	1	28112	COVER PLATE; REAR
12	1	26479	ASSY; VALVE BLOCK, 3-SPOOL, PROP
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; ELEVATION CYLINDER W/ COMPOSITE BEARINGS
19	1	23704	WELDMENT; ELEVATION CYL. PIN, 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.

* EITHER 21735 OR 21735-WRB DEPENDING ON CONFIGURATION

REFERENCE DWG #23776 FOR REPLACEMENT PARTS DWG



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT PARTS LIST (MECH)

DATE

08-03-23C

SECTION

C400

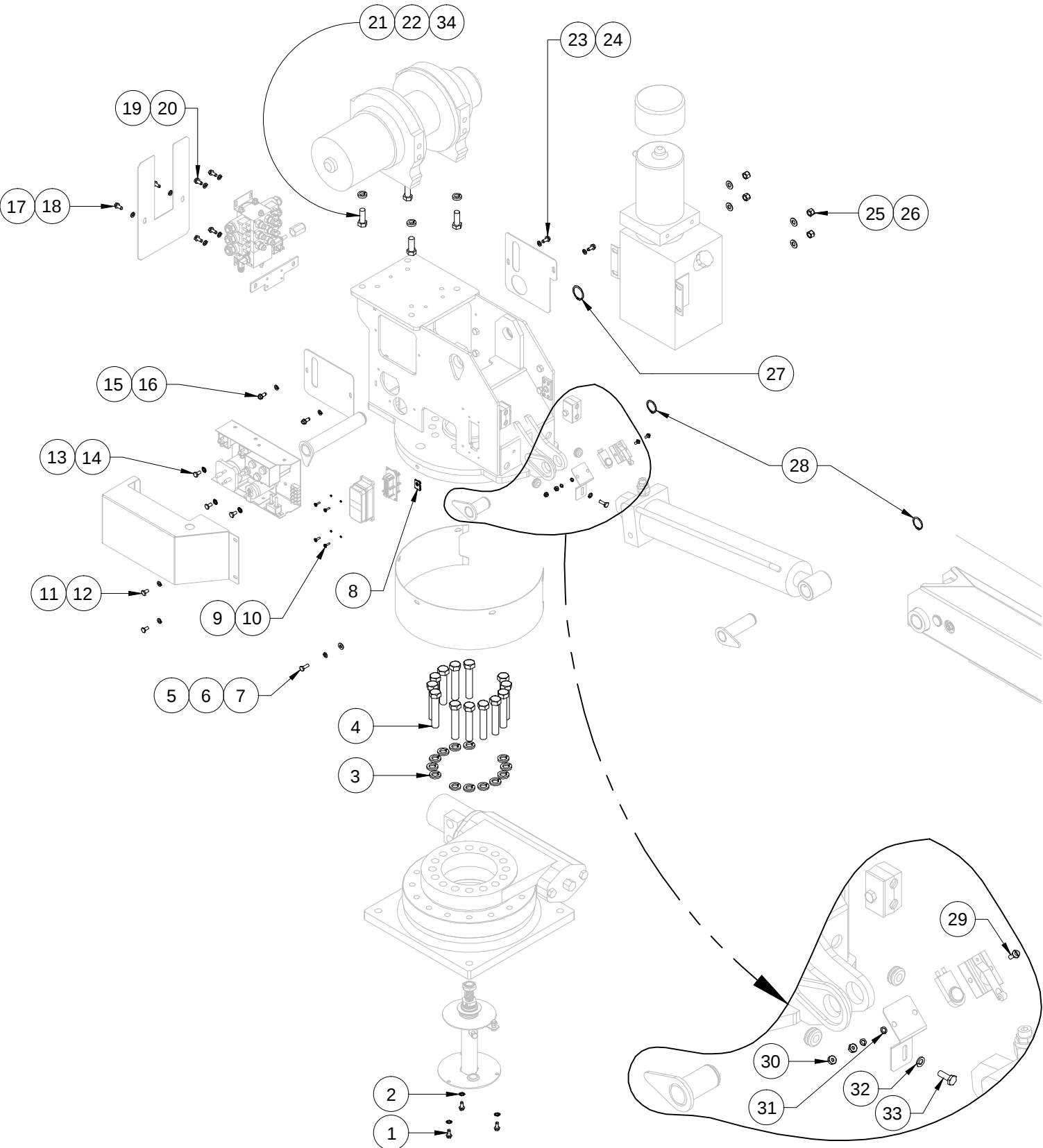
ET12KXP, 9 - 16' BOOM

SUPERSEDES

03-07-23B

23777

REPLACEMENT FASTENERS DWG; ET12KXP MECHANISM



REFERENCE DWG #23779 FOR REPLACEMENT PARTS LIST

 Venco VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE RPLCMNT FASTENERS DWG	DATE 09-27-22A	SECTION C400
	ET12KXP MECHANISM	SUPERSEDES 07-31-18	23778

REPLACEMENT FASTENER LIST; ET12KXP 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	!SHPSM#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	WARN WINCH TO HOUSING
21*	25920	SHCS; M10-150 X 50MM, GR. 12.9	6	COMEUP WINCH TO HOUSING
22°	!LWSH-M12	LOCK WASHER; M12, GRADE 8.8	4	WARN WINCH TO HOUSING
22*	!LWSH-M10-18.1MM-OD	LOCK WASHER; M10, 10.7MM ID, 18.1MM OD	6	COMEUP 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	!PHPSM#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
34°	!FWSH-M12-8.8	FLAT WASHER; M12	4	WARN WINCH TO HOUSING
34*	!FWSH-M10-18MM-OD	FLAT WASHER; M10, 10.5MM ID, 18MM OD	6	COMEUP WINCH TO HOUSING

° = WARN DC2500 WINCH MOUNTING

* = COMEUP GTD-2800 WINCH MOUNTING

REFERENCE DWG #23778 FOR REPLACEMENT FASTENER DRAWING



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT FASTENER LIST

ET12KXP

DATE

09-27-22A

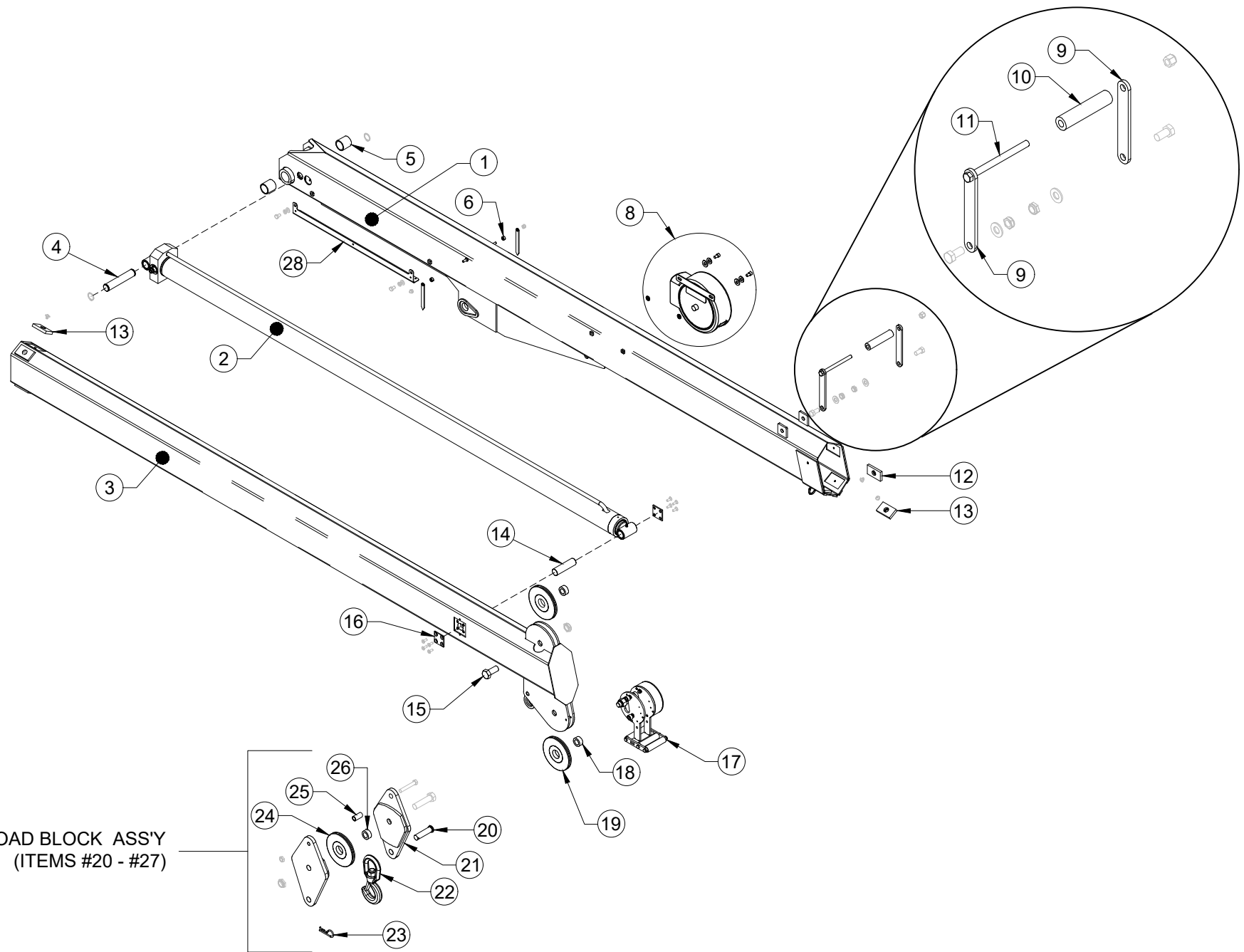
SUPERSEDES

07-31-18

SECTION

C400

23779



REFERENCE DWG #23781 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

23700 BOOM REPLACEMENT PARTS DWG

ET12KX(P), 9' - 16' BOOM

DATE

07-29-24F

SUPERSEDES

02-08-21E

SECTION

C400

23780

REPLACEMENT PARTS LIST; 23700, 9-16' BOOM

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	23701	WELDMNT; PRIMARY BOOM, 9-16' BOOM
2	1	23692	EXTENSION CYLINDER; 9-16', 78" STROKE
3	1	23702	WELDMNT; 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	26577-1-20	COMPLETE CORD REEL
9	2	21936	WIRE ROPE GUIDE; FLAT MOUNT
10	1	21560	ROLLER; UHMW GUIDE
11	1	!HHCS04414550	HEX HEAD CAP SCREW - 7/16-14 X 5-1/2 LG
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	27469-L-C-00	COMPACT A2B
18	2	20536	SPACER; SHEAVE
19	2	21630	SHEAVE; POLY CABLE W/ BUSHING
20	1	20675	CLEVIS PIN
21	1	20671	WELDED ASS'Y; SIDE PLATE
22	1	17291	HOOK; SWIVEL W/ SAFETY LATCH
23	1	21-07	HAIRPIN COTTER
24	1	21630	SHEAVE; POLY CABLE W/ BUSHING
25	1	20674	SPACER
26	1	20536	SPACER; SHEAVE
27	2	27007-04a	DECAL; CAPACITY, 4000LBS. (NOT SHOWN)
28	1	26940-2	HEX BOOM CABLE GUIDE

ITEMS #20-26

LOAD BLOCK ASSEMBLY

20670

REFERENCE DWG #23780 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

23700 RPLCMNT PARTS LIST

DATE

09-10-24G

SECTION

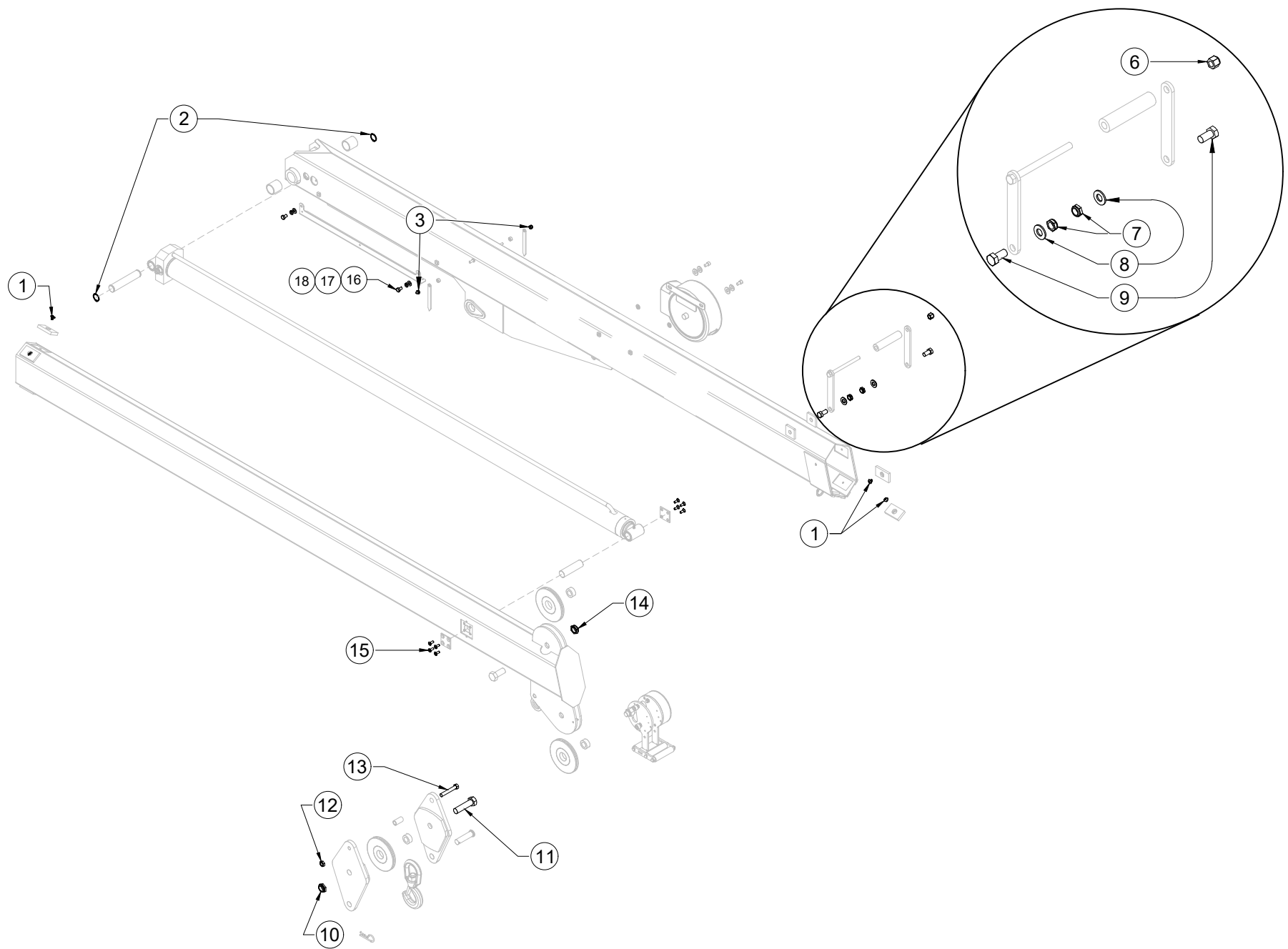
C400

SUPERSEDES

07-29-24F

ET12KXP, 9-16' BOOM

23781



REFERENCE DWG #23783 FOR REPLACEMENT FASTENERS LIST



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	23700 BOOM RPLCMNT FASTENERS DWG
ET12KX(P), 9' - 16' BOOM	

DATE	07-29-24F	SECTION	C400
SUPERSEDES	02-08-21E		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
-	-	-	-	-
-	-	-	-	-
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	!JNUT-07510N	JAM NUT; 3/4-10, NYLON INSERT, GR. 5, PLTD	2	ITEM #11 AND ITEM #21
11	!HHCS07510300	HEX HEAD CAP SCREW; 3/4-10 X 3" LG, GR. 5, ZINC	1	LOAD BLOCK SIDE PLATES / SHEAVE
12	!JNUT-04414N	JAM NUT; 7/16-14, BYLON INSERT, GR. 5, ZINC	1	LOAD BLOCK SIDE PLATES / SPACER
13	!HHCS04414275	HEX HEAD CAP SCREW; 7/16-14 X 2-3/4, GR. 5, ZINC	1	LOAD BLOCK SIDE PLATES / SPACER
14	!LNUT-07510	LOCK NUT; 3/4-10, NYLON INSERT, GR. 5, ZINC	1	17059-4 SHEAVE AXLE
15	!CACS02520050S	C'SINK ALLEN HEAD CAP SCREW; 1/4-20 X 1/2, S/S	8	CYLINDER PIN RETAINER PLATES
16	!FWSH-031S	FLAT WASHER; 5/16" STAINLESS	2	CABLE GUIDE
17	!LWSH-031S	LOCK WASHER; 5/16" STAINLESS	2	CABLE GUIDE
18	!HHCS03118050S	HEX HEAD CAP SCREW - 5/16 X 1/2, S/S	2	CABLE GUIDE

ITEMS #10-13

HARDWARE FOR LOAD BLOCK #20670

REFERENCE DWG #23782 FOR REPLACEMENT FASTENER DRAWING



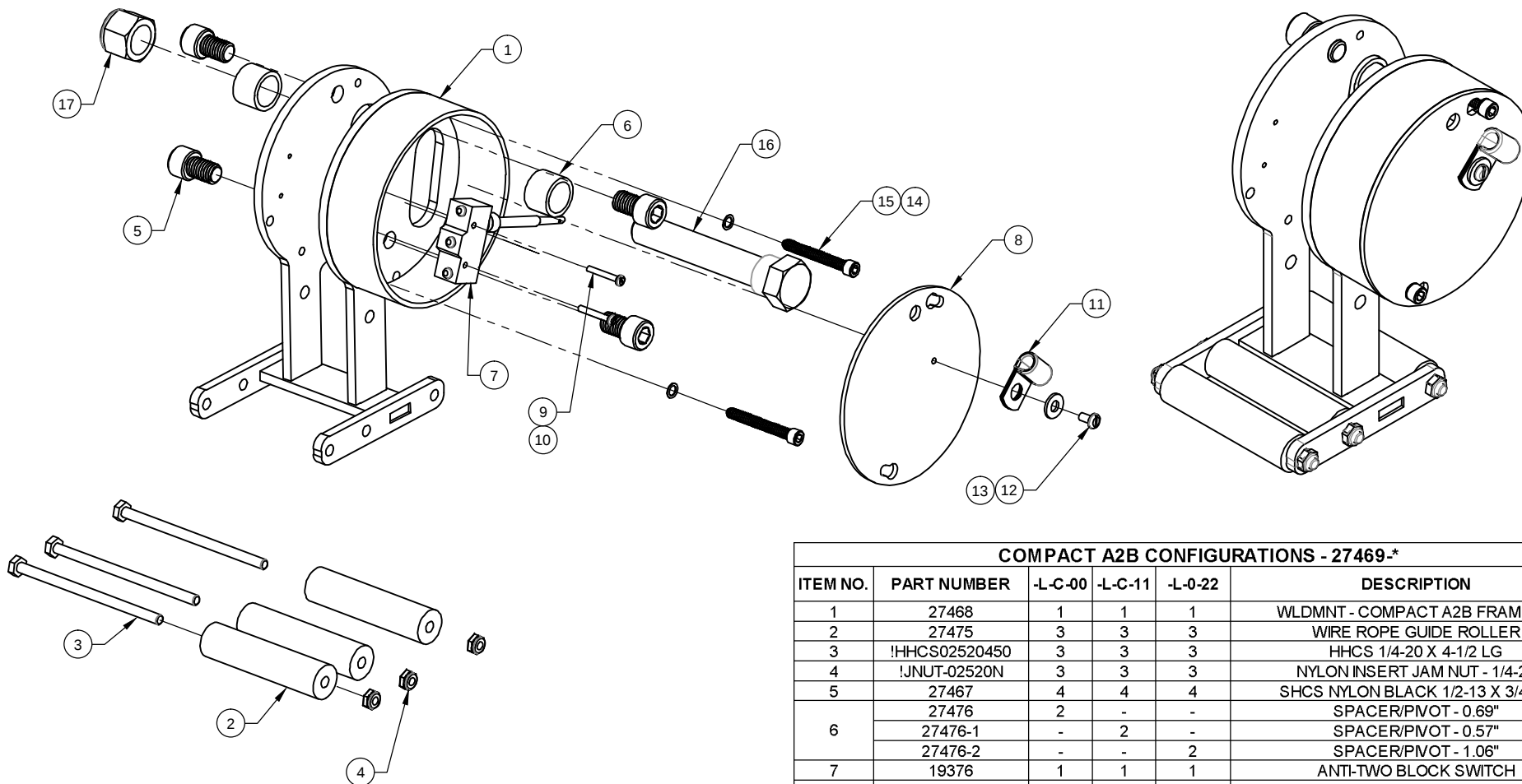
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
RPLCMNT FASTENER LIST
ET12KX(P), 23700 BOOM, 9-16'

DATE
07-29-24F
SUPERSEDES
02-08-21E

SECTION
C400
23783

COMPACT A2B - 27469-* - REPLACEMENT PARTS LIST



COMPACT A2B CONFIGURATIONS - 27469-*

ITEM NO.	PART NUMBER	-L-C-00	-L-C-11	-L-0-22	DESCRIPTION
1	27468	1	1	1	WLDMNT - COMPACT A2B FRAME LH
2	27475	3	3	3	WIRE ROPE GUIDE ROLLER
3	!HHCS02520450	3	3	3	HHCS 1/4-20 X 4-1/2 LG
4	!JNUT-02520N	3	3	3	NYLON INSERT JAM NUT - 1/4-20
5	27467	4	4	4	SHCS NYLON BLACK 1/2-13 X 3/4 LG
6	27476	2	-	-	SPACER/PIVOT - 0.69"
	27476-1	-	2	-	SPACER/PIVOT - 0.57"
	27476-2	-	-	2	SPACER/PIVOT - 1.06"
7	19376	1	1	1	ANTI-TWO BLOCK SWITCH
8	27473	1	1	1	COVER PLATE
9	!PHCS#0632100	2	2	2	PHILLIPS HEAD CAP SCREW 6-32 X 1 LONG
10	!LWSH#06	2	2	2	LOCK WASHER - 6
11	19269	1	1	1	WIRE CLAMP, 3/8 ID VIBRATION DAMPING
12	!PHCS#1032038	1	1	1	PAN HEAD CAP SCREW 10-32 X 3/8 LONG
13	!FWSH-025	1	1	1	FLAT WASHER - 1/4
14	!SHCS02520200SS	2	2	2	SHCS, 1/4-20 X 2.00 LONG, STAINLESS STEEL
15	23379	2	2	2	WASHER, NYLON, BLACK, .375" O.D. X .25" I.D.
16	28362	1	1	-	COMPACT A2B CUT-OUT CAM WELDED ASSY.
	!HHCS07510450	-	-	1	HHCS, 3/4-10 X 4.50 LONG, GR.5
17	LNUT-07510	1	1	1	NYLON INSERT LOCK NUT - 3/4-10



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS LIST

COMPACT A2B - 27469-*

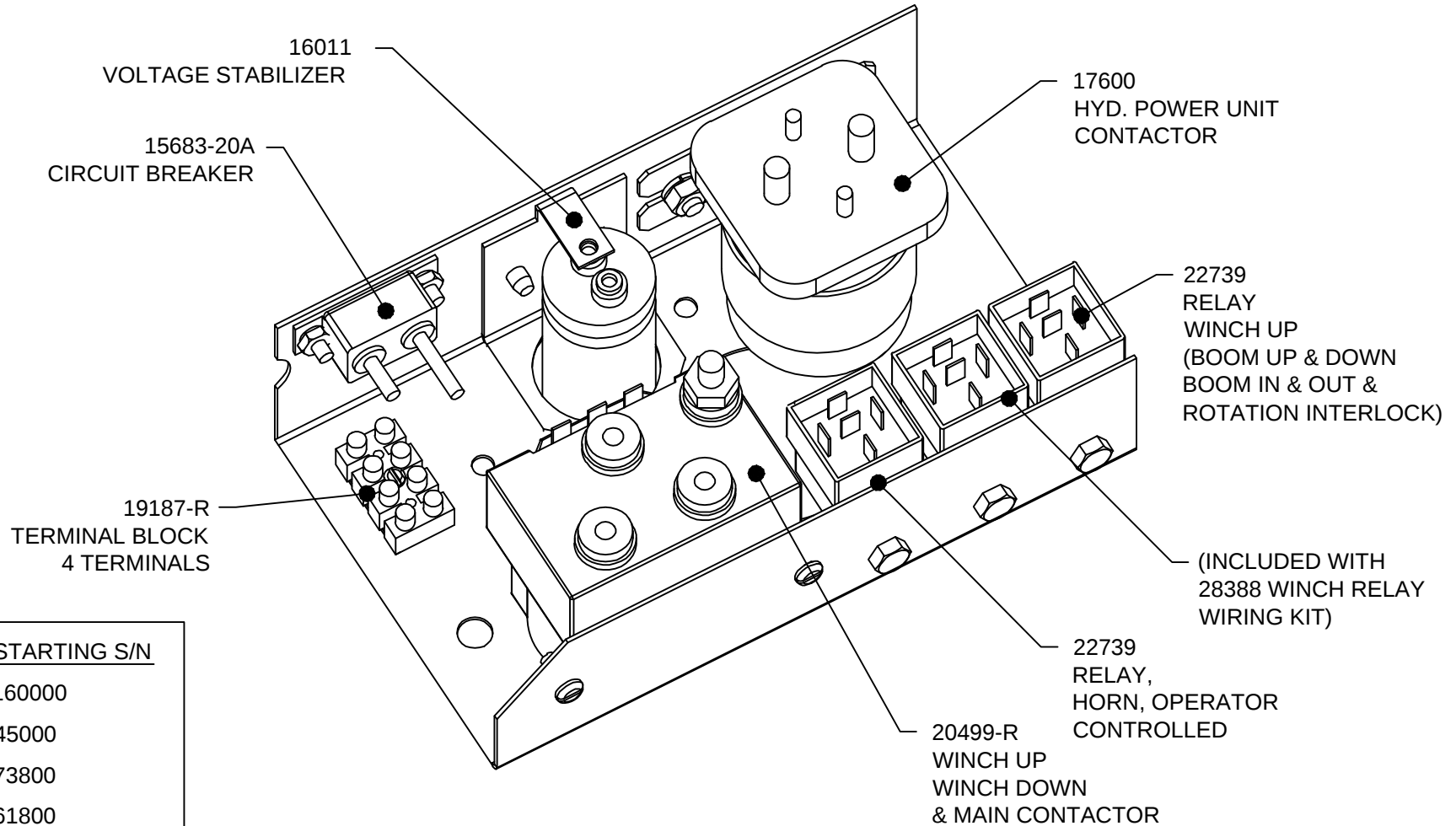
DATE
7-10-24A

SUPERSEDES
06-11-24

SECTION
C400

26942

21515 ELECTRICAL COMPONENT ASSEMBLY



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

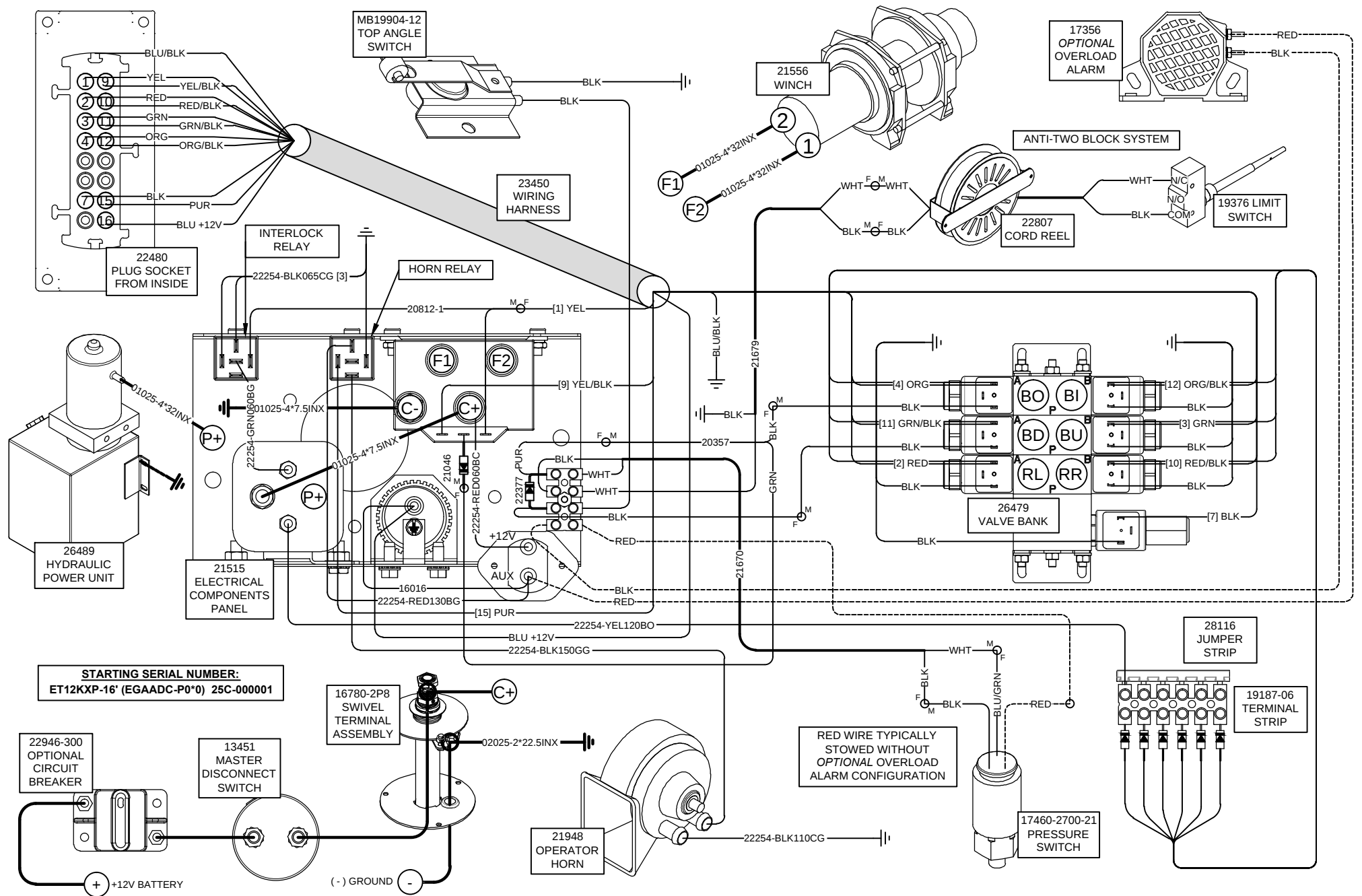


VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
ELECTRICAL COMPONENT ASSEMBLY
ET6K, ET8/12K(X), ET12KXP

DATE
03-02-23G
SUPERSEDES
07-31-18F

SECTION
C400
21600



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

WIRING DIAGRAM

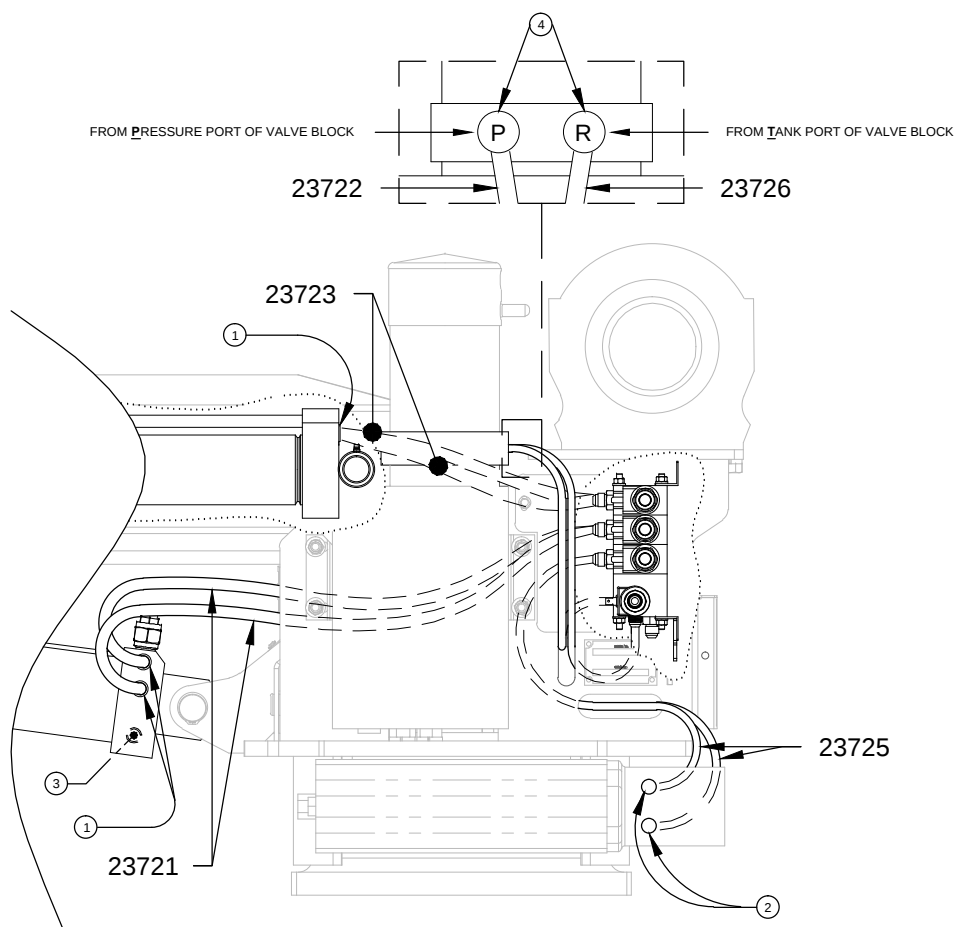
ET12KXP-16'

DATE
04-07-21C

SUPERSEDES
02-02-21B

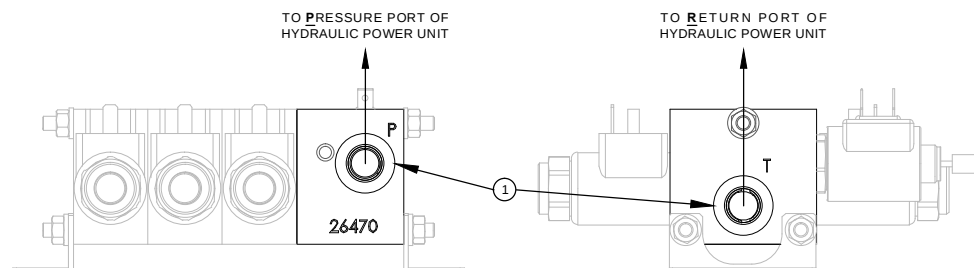
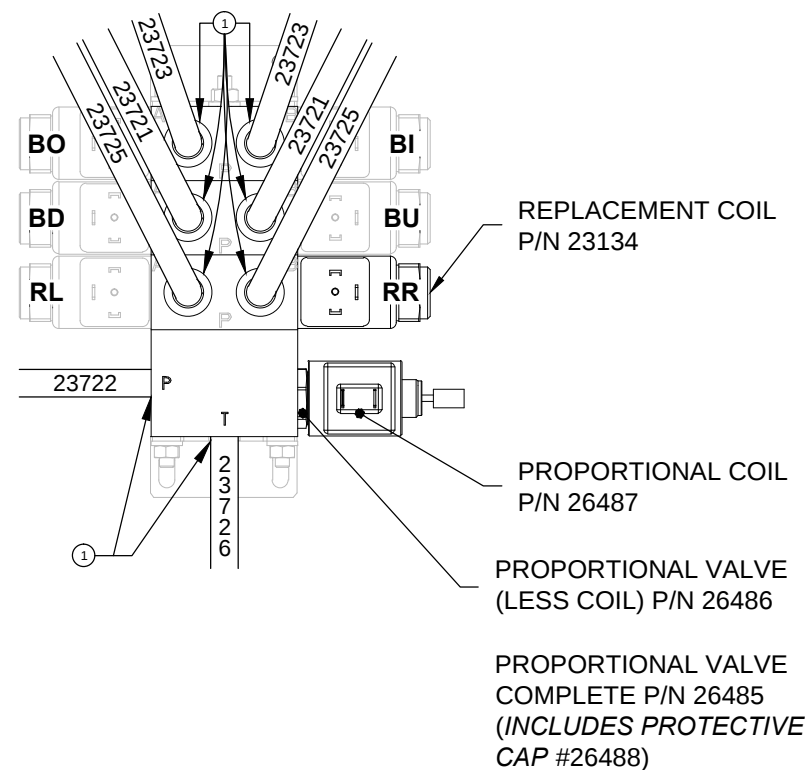
SECTION
C400

26524



23724 HOSES/FITTINGS KIT; FITTINGS INFORMATION

ITEM	QTY	PART NO.	LOCATION
1	12	FF6400-0606	VLV BLCK/HPU PORTS, ELEV./EXT. CYL. PORTS
2	2	FF6400-0610	ROTATION MOTOR PORTS
3	1	H6805-0404	ELEV. CYL. PRESSURE SWITCH PORT (RIGHT SIDE)
4	2	FF6801-0606	HYDRAULIC POWER UNIT PRESSURE AND RETURN



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
23724 HOSES/FITTINGS KIT

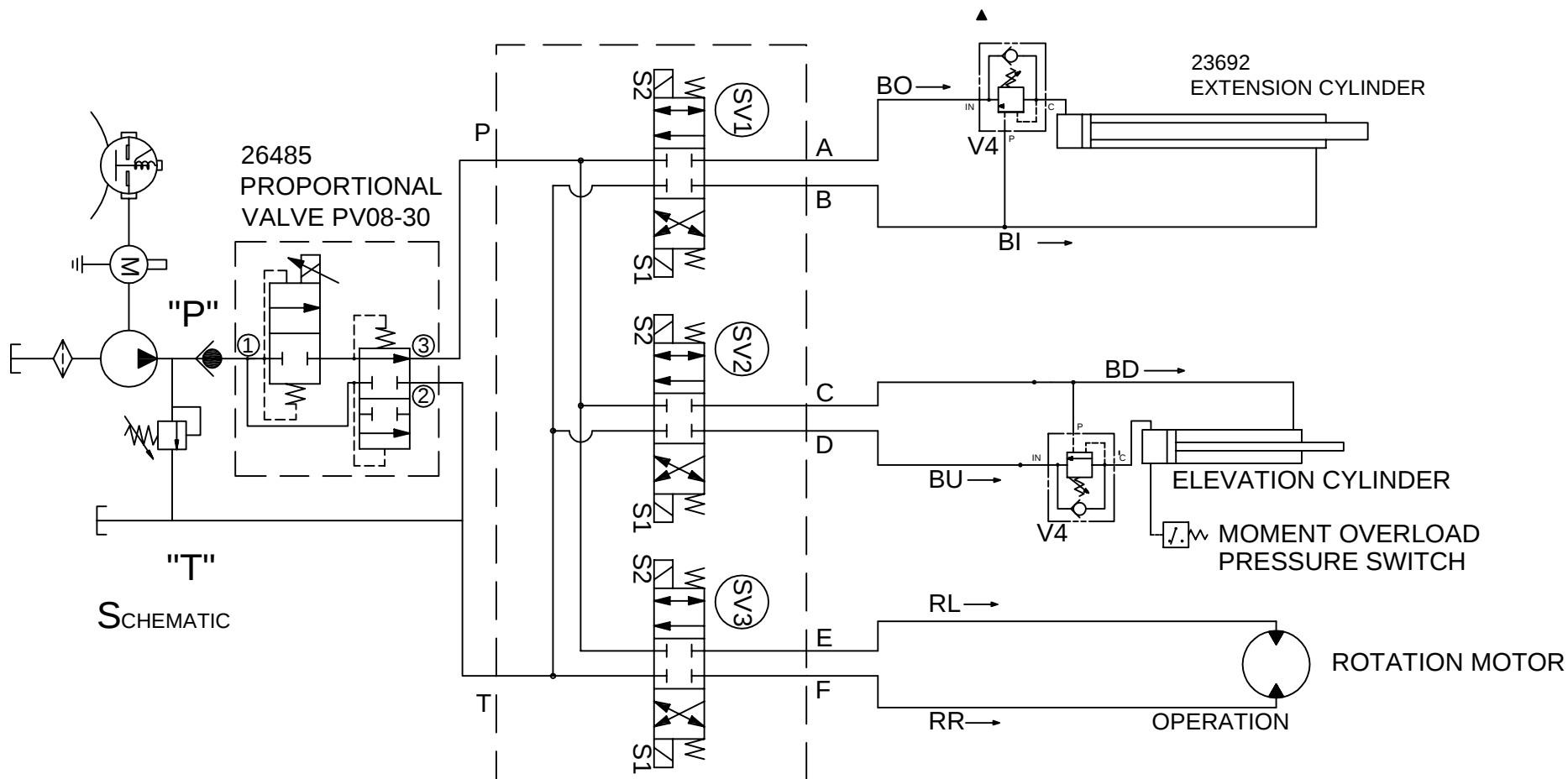
ET12KXP SERIES CRANES

DATE
09-18-20A

SUPERSEDES
07-31-18

SECTION
C400

23784



(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
HYDRAULIC SYSTEM DIAGRAM

ET12KXP, 9-16' BOOM

DATE
03-27-19A

SUPERSEDES
07-31-18

SECTION
C400

23785

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

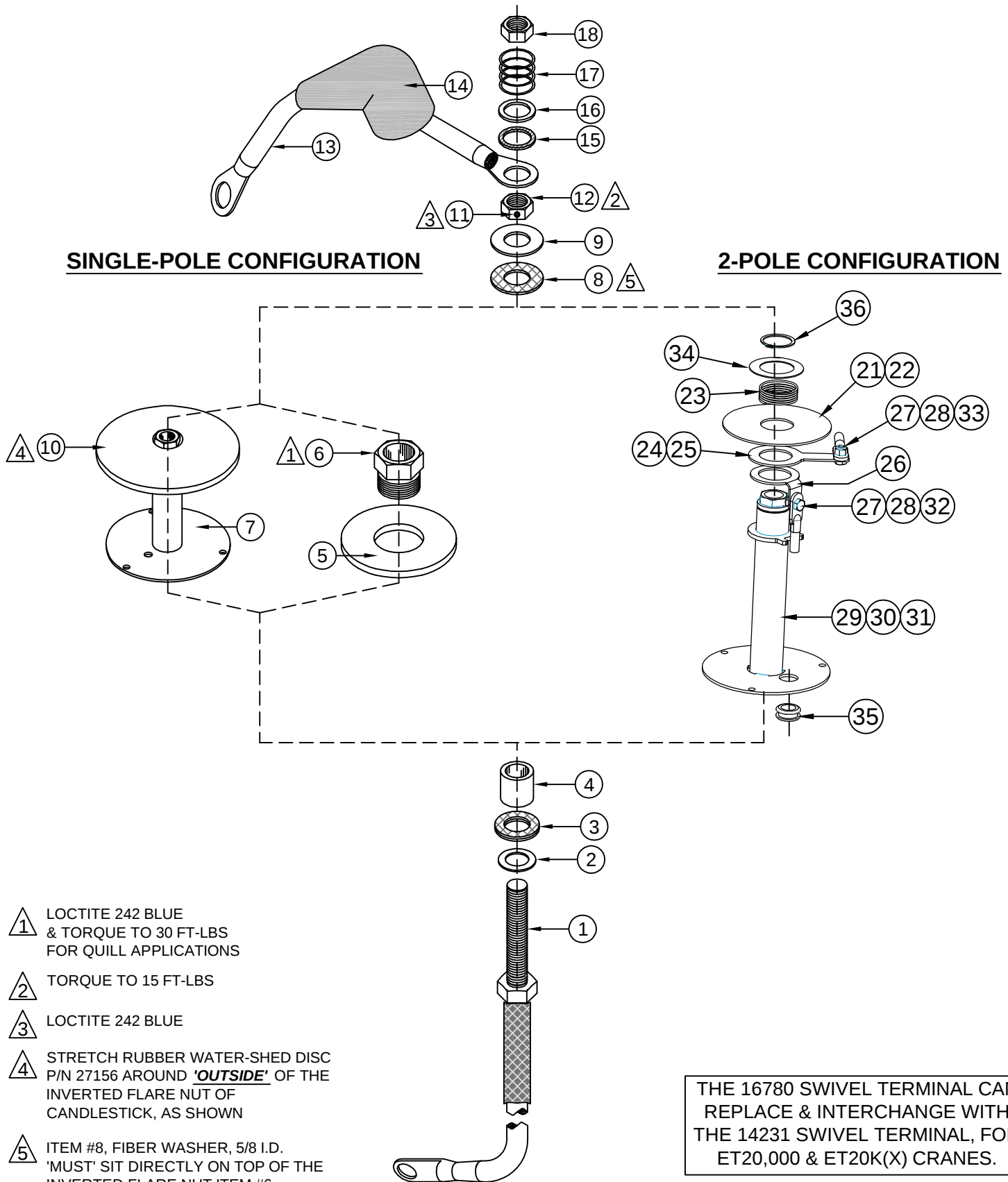
						16780 BILLS OF MATERIALS		
Quill Rotation	Slew Rotation Single Pole Slip-Ring	Slew Rotation 2-Pole Slip-Ring (ET6K ONLY)	Slew Rotation 2-Pole Slip-Ring (ET8-18KX)	Slew Rotation 2-Pole Slip-Ring (ET25-36KX)	ALL CRANES			
16780	16780 - 1	16780 - 2P6	16780 - 2P8	16780 - 2P25	16780 - KIT			
QTY						#	PART	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)



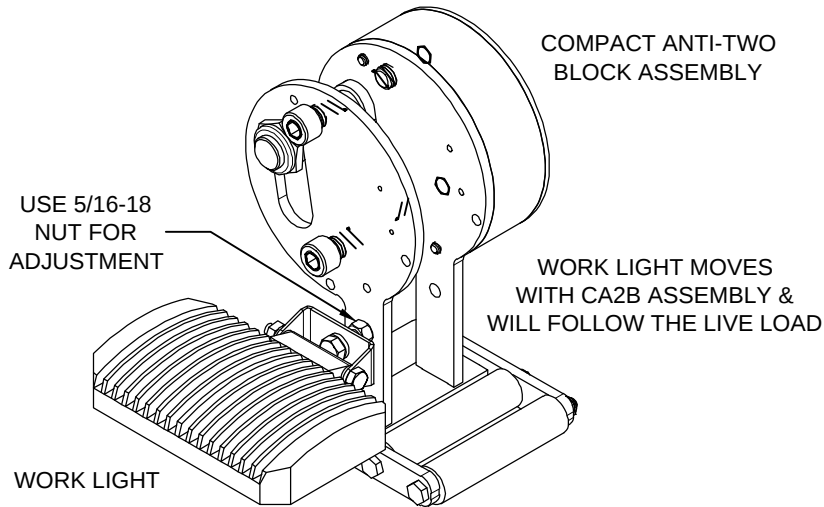
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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

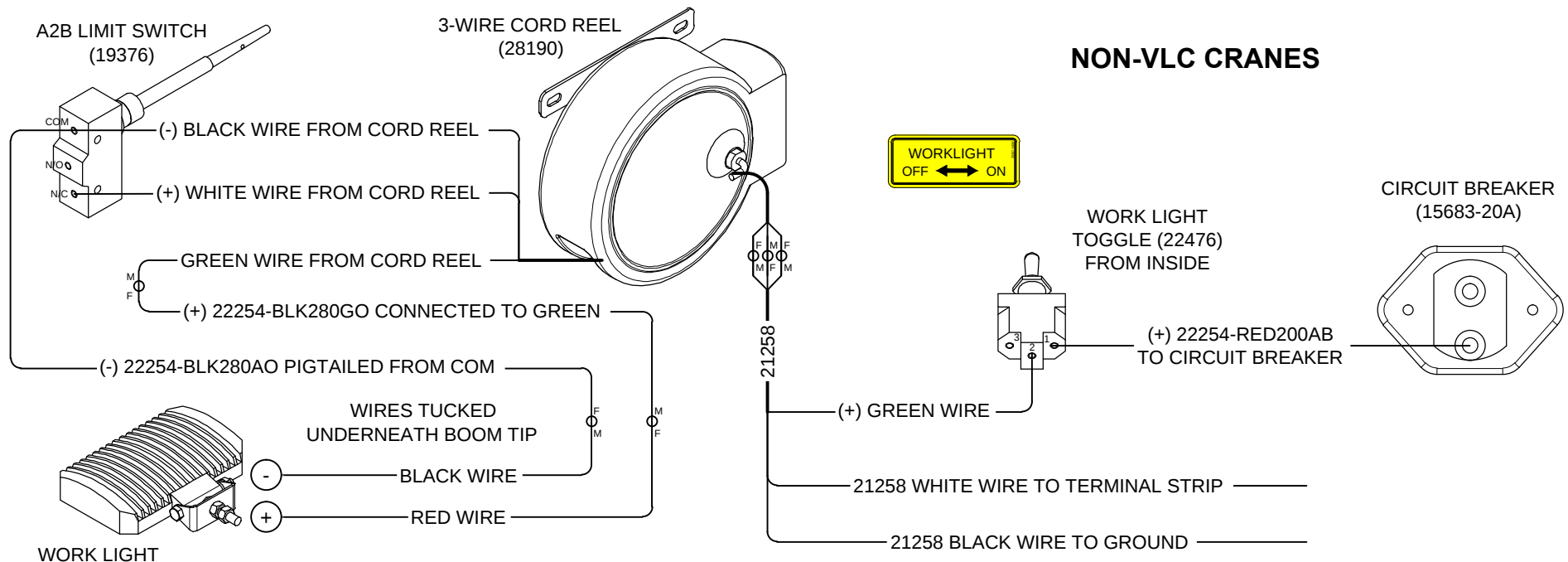
DATE
04-27-18
SUPERSEDES
-

SECTION
C400
21293

WORK LIGHT INSTALLATION: 28240-1 (3-WIRE CORD REEL ON NON-VLC CRANES)



BILL OF MATERIALS		-1	28240
#	DESCRIPTION		PART NUMBER
1	IDWG; WORK LIGHT INSTALLATION, NON-VLC CRANES	1	28199
2	LED WORK LIGHT	1	27483
3	TERMINAL; 16G, FEMALE, QUICK-CONNECT	3	ITEM16G250QCFI
4	TERMINAL; 16G, MALE, QUICK-CONNECT	4	ITEM16G250QCM
5	WIRE ASS'Y; 16G, BLACK, 28", #6 RING - STRIPPED END	1	22254-BLK280AO
6	WIRE ASS'Y; 16G, BLACK, 28", QCF - STRIPPED END	1	22254-BLK280GO
7	TOGGLE SWITCH; ON / OFF, IP-RATED	1	22476
8	HALF-BOOT, FOR IP-RATED TOGGLE SWITCH	1	19793
9	DECAL; ON/OFF, OPTIONAL WORK LIGHT W/ TOGGLE	1	28307
10	WIRE ASS'Y; 16G, RED, 20", #6 RING - #10 RING	1	22254-RED200AB
11	TERMINAL; 16G, #6 RING, CLOSED-END	1	ITEM16G#6RG



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

WORK LIGHT INSTALLATION, 3-WIRE CORD REEL

NON-VLC CRANES

DATE _____

02-10-21

SUPERSEDES

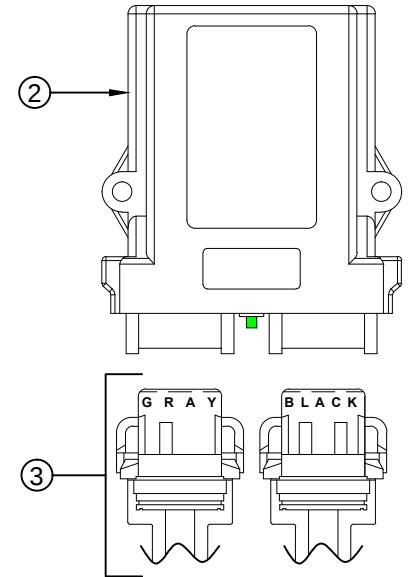
1

SECTION

C400

28199

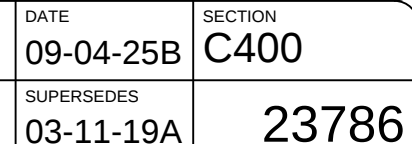
Diagram of the control panel for the 1000 Series Crane. The panel features a central red emergency stop button labeled "EMERGENCY STOP" and "STOP". Above it are "BATT" (battery) and "POWER" indicators. Below the emergency stop are four directional buttons: "UP DOWN BOOM", "OUT IN BOOM", "UP DOWN WINCH", and "RIGHT LEFT ROTATE". A "HORN" button is also present. The diagram is annotated with numbers 1 through 9 pointing to various components.



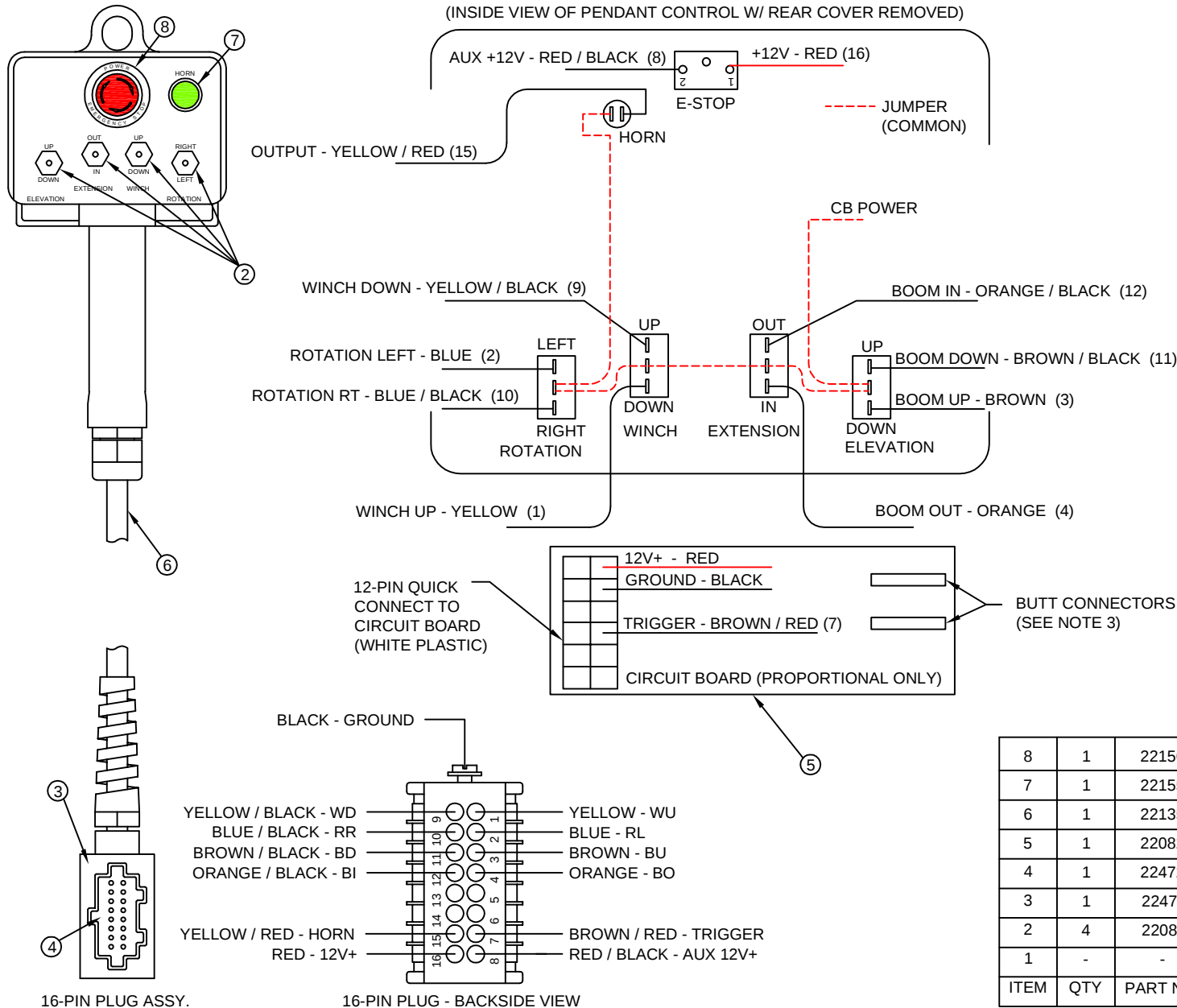
16-PIN PLUG ASSY

③

ITEM NO.	PART NO.	DESCRIPTION
1	22158-TX	TRANSMITTER
2	22158-RX	RECEIVER
3	21983-HN	HARNESS
4	22965-BATT	BATTERY
5	22965-CHGR	CHARGER (NOT SHOWN)
6	21983-STP	E-STOP BUTTON
7	21983-TOG	FUNCTION TOGGLE
8	21983-HOR	HORN BUTTON & BOOT
9	23234	PROP TRIGGER (NOT SHOWN)



21988 PENDANT; PROP, NO ENG CNTRL, 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.

NOTE 3:
WHEN REPLACING CORD ASSY, CUT BLACK
AND BLACK / RED WIRES FROM 12-PIN QUICK
CONNECT AND INSTALL 'BUTT CONNECTORS';
MATCH UP BLACK TO BLACK WIRES AND
BLACK / RED TO BLACK / RED WIRES FROM
REPLACEMENT CORD ASSY.

MODEL	STARTING S/N
HT25K(X)	120300
HT30K(X)	115300
HT40KX(X)	100900
HT50KX(X)	110600
HT66KXX	150300

ITEM	QTY	PART NO.	DESCRIPTION
8	1	22156	SWITCH; E-STOP
7	1	22155	SWITCH; PUSHBUTTON, HORN
6	1	22135	KIT; REPLACEMENT CORD ASSY
5	1	22082	CIRCUIT BOARD; PROP VALVE CONTROLLER
4	1	22472	INSERT; MALE, 16 + 1 POLE
3	1	22471	PLUG CASE; 16 + 1 POLE
2	4	22081	SWITCH; SPDT, MOMENTARY
1	-	-	-



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DWG & LIST

DATE

10-03-14

SECTION

C400

21988 PNDNT; PROP, NO ENG CNT, ESTP/HRN

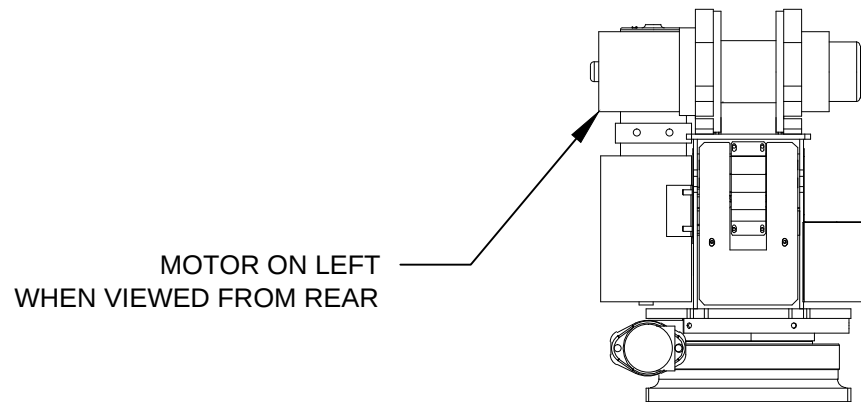
SUPERSEDES

-

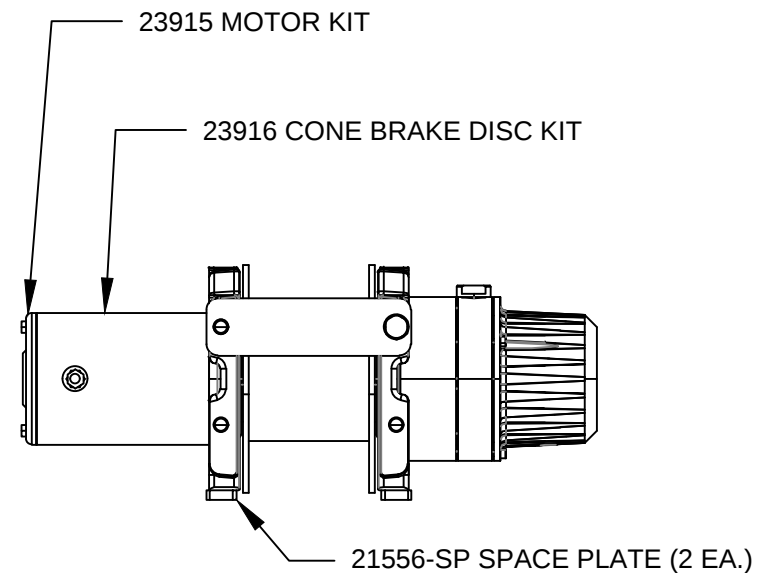
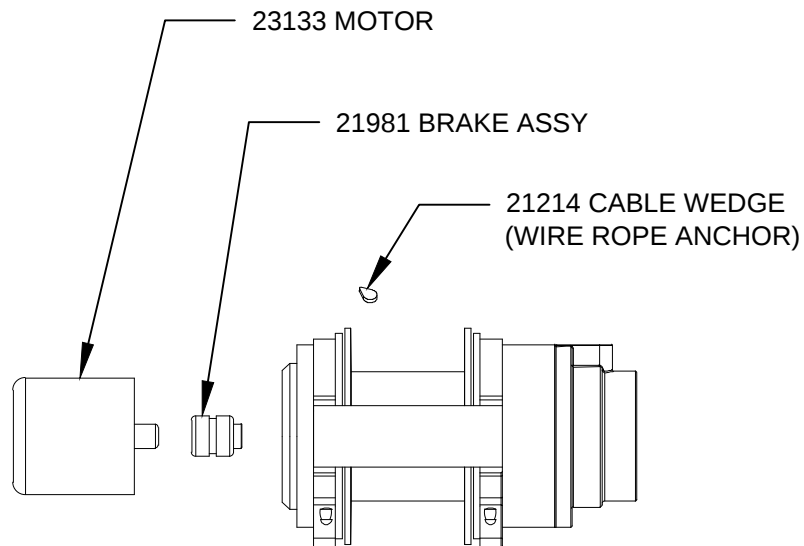
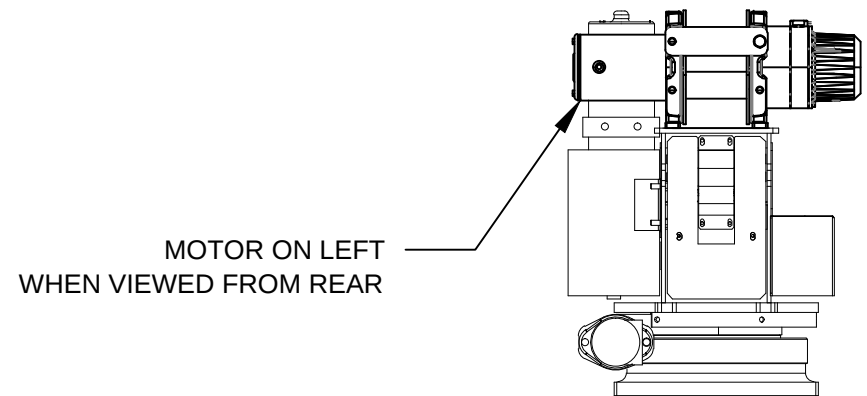
23073

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

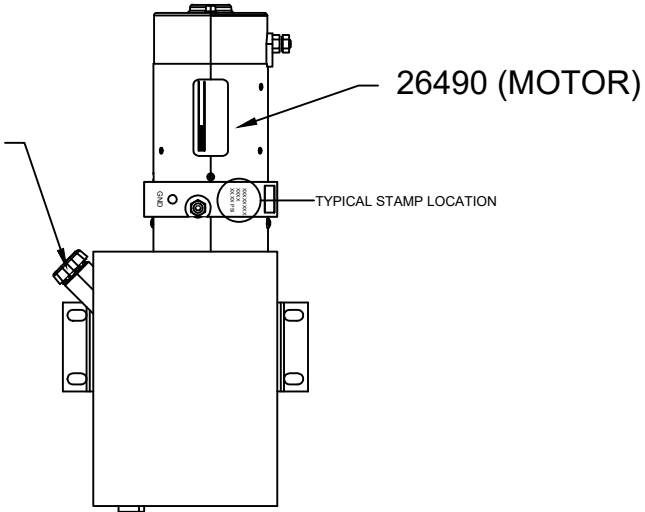
C400

21741

26489 HYD. POWER UNIT REPLACEMENT PARTS

BUCHER

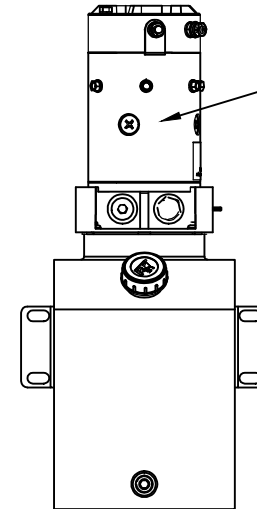
21025
(BREATHING CAP)



(FRONT VIEW)

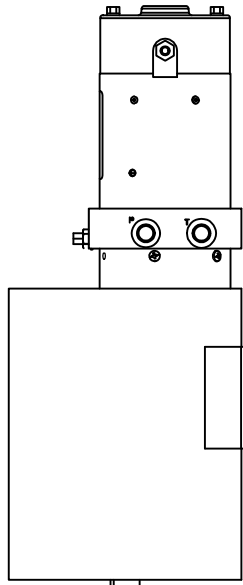
KTI

26490-1 (MOTOR)



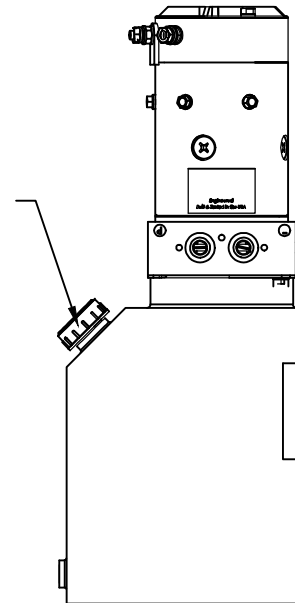
(FRONT VIEW)

NO GROUND
CABLE NEEDED



BUCHER

21025-1
(BREATHING CAP)



GROUND CABLE:
01025-4*23INX

KTI



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

HYDRAULIC POWER UNIT REPLACEMENT PARTS

ET12KX-16' PROP, ET16/18/25/30/36

DATE

03-06-23 A

SUPERSEDES

07-31-18

SECTION

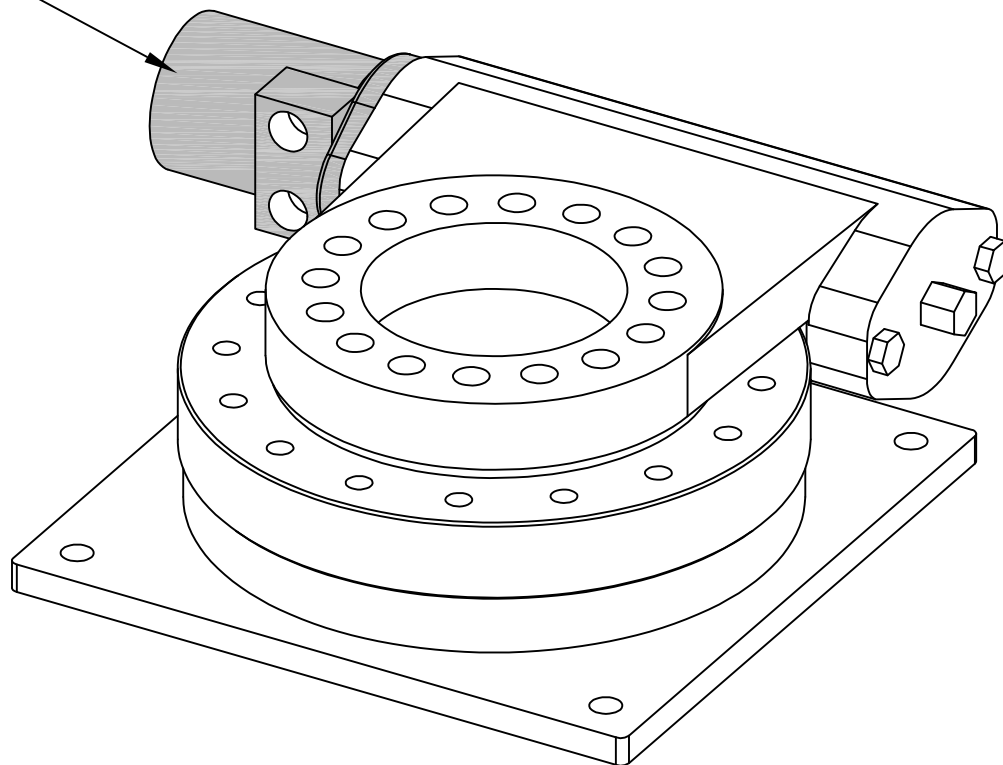
C400

23787

21735 SLEWING SYSTEM REPLACEMENT PARTS

21123 MOTOR (ONLY)

21218 - MOTOR SEAL KIT



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

SLEWING SYSTEM REPLACEMENT PARTS

ET8/12K & ET8/12/16/18KX ▲

DATE

10-23-14B

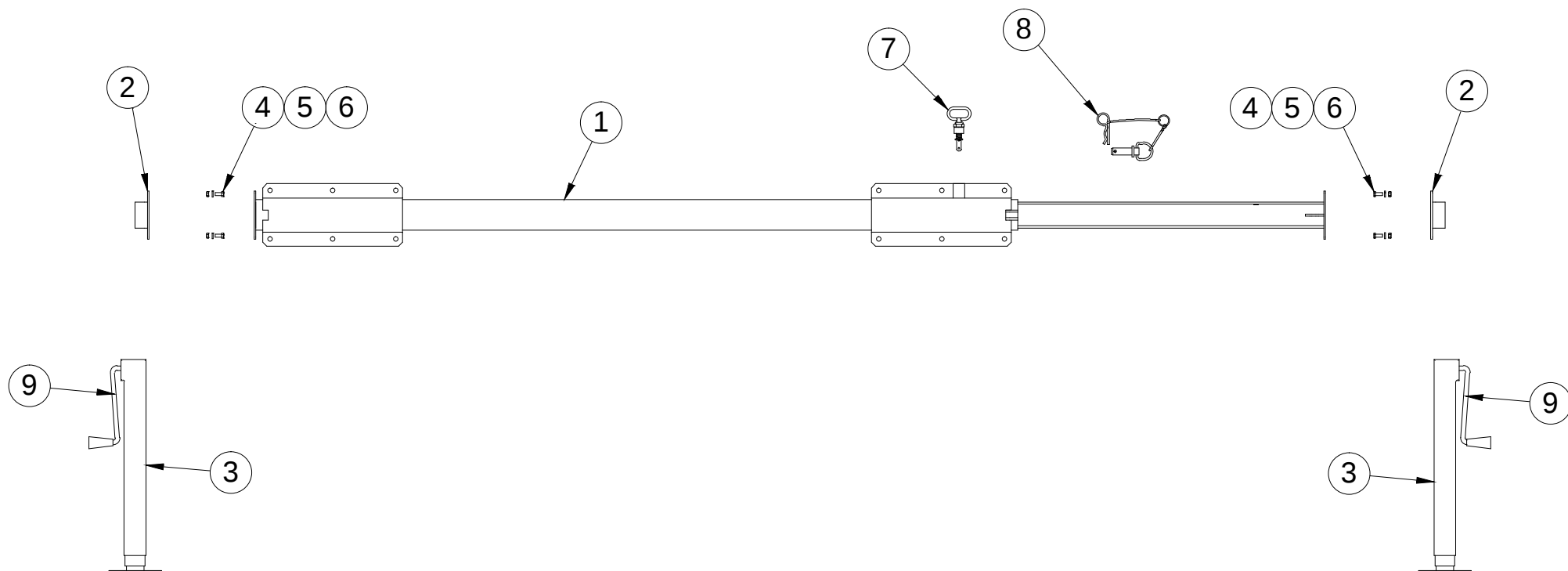
SUPERSEDES

12-27-13A

SECTION

C400

21973



ITEM	QTY	PART NO	DESCRIPTION
1	1	18501	TUBE - STABILIZER ASSEMBLY
2	2	18587	CRANKDOWN LEG ADAPTER
3	2	18586	CRANKDOWN LEG
4	8	!HHCS03118075	HEX HEAD CAP SCREW - 5/16-18 X 3/4" LONG
5	8	!HNUT-03118	HEX NUT - 5/16-18
6	8	!LWSH-031	LOCKWASHER - 5/16
7	1	18520	SPRING LOADED ASSEMBLY
8	1	24981	STABILIZER SECURITY PIN
9	2	18586-HANDLE	HANDLE, CRAND-DOWN LEG



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DRAWING & LIST

18500-CD MANUAL STABILIZERS

DATE

12-05-24E

SUPSEDES

12-27-13D

SECTION

C400

22689

GREASE

14473-2

OIL LEVEL

13397

WARNING!

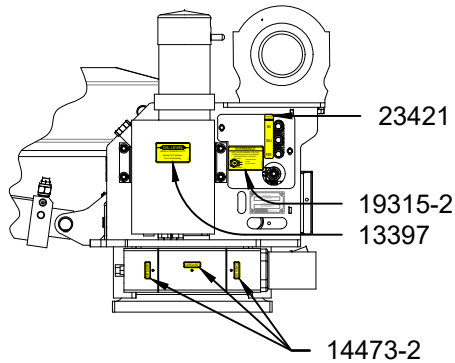
19315-2

BI
BU
RR

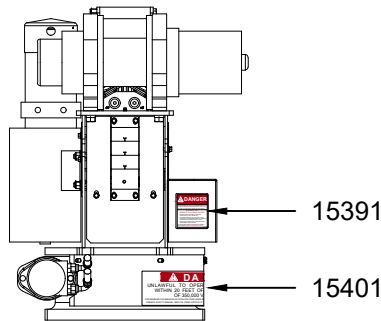
23421

DANGER

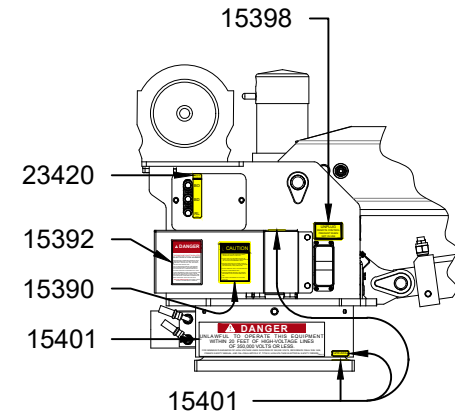
15391



LEFT



BACK



RIGHT

DANGER

15401

DANGER

15392

BO
BD
RL

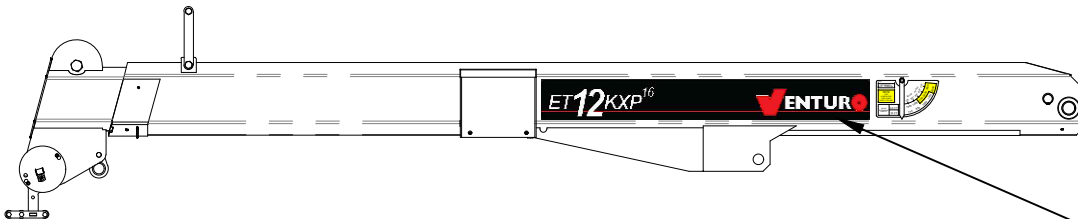
23420

CAUTION

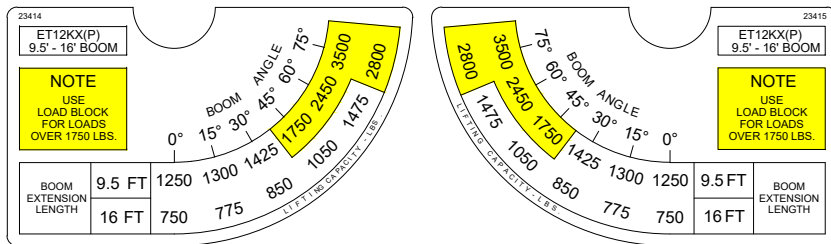
15390

UNPLUG
REMOTE CONTROL
PENDANT WHEN
NOT IN USE

15398

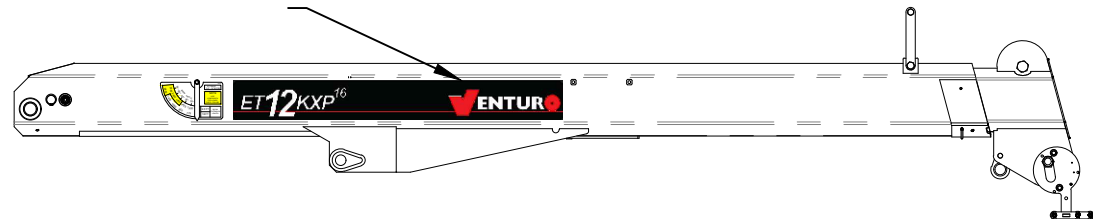


28560
MODEL ET12KXP-16'



23414

23415



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
DECAL PLACEMENT

ET12KXP, 9-16' BOOM

DATE
11-27-23

SUPERSEDES
-

SECTION
C400

28562

23417 (ET12KXP) FIELD SERVICE LABEL KIT

PART NO.	QTY	DESCRIPTION
14473-2	6	DECAL; GREASE
28560	2	DECAL; MODEL ET12KXP-16'
23415	1	DECAL; BOOM CAPACITY, RIGHT, ET12KXP 9-16' BOOM
23414	1	DECAL; BOOM CAPACITY, LEFT, ET12KXP 9-16' BOOM
13397	1	DECAL; OIL LEVEL
23420	1	DECAL; DIRECTIONAL VALVE, MANUAL OVERRIDE, RIGHT
23421	1	DECAL; DIRECTIONAL VALVE, MANUAL OVERRIDE, LEFT
19315-2	1	DECAL; PROPORTIONAL VALVE MANUAL OVERRIDE
16184-1	1	DECAL; HORN RELAY
28563	1	IDWG; FIELD SERVICE LABEL KIT
28562	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL; VENTURO CRANES
15397	1	KIT; ACCIDENT PREVENTION SIGNS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
FIELD SERVICE LABEL KIT

ET12KXP, 9-16' BOOM

DATE
11-27-23

SUPERSEDES
-

SECTION
C400

28563



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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