



ET8K(X)

EF*AAB-
INSTALLATION & OWNER'S MANUAL**

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ET8K(X) (EF*AAB-00) OWNER'S MANUAL

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VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
TABLE OF CONTENTS	02-10-17H	-
ET8K(X) (EF*AAB-00)	SUPERSEDES 08-04-15G	28030

SECTION 100

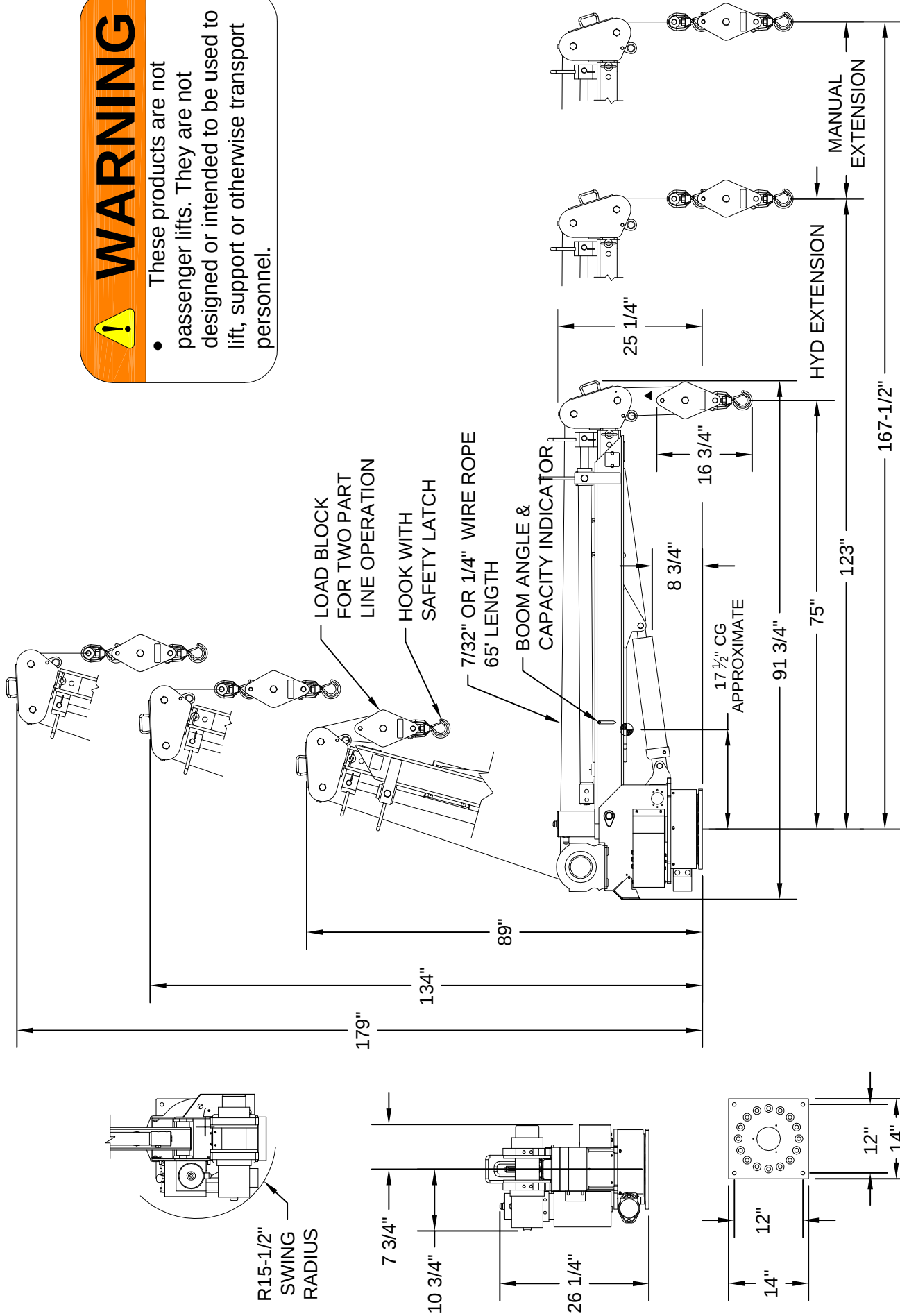
DESCRIPTION

&

SPECIFICATIONS

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
CRANE DIMENSIONS

DATE
05-25-16G

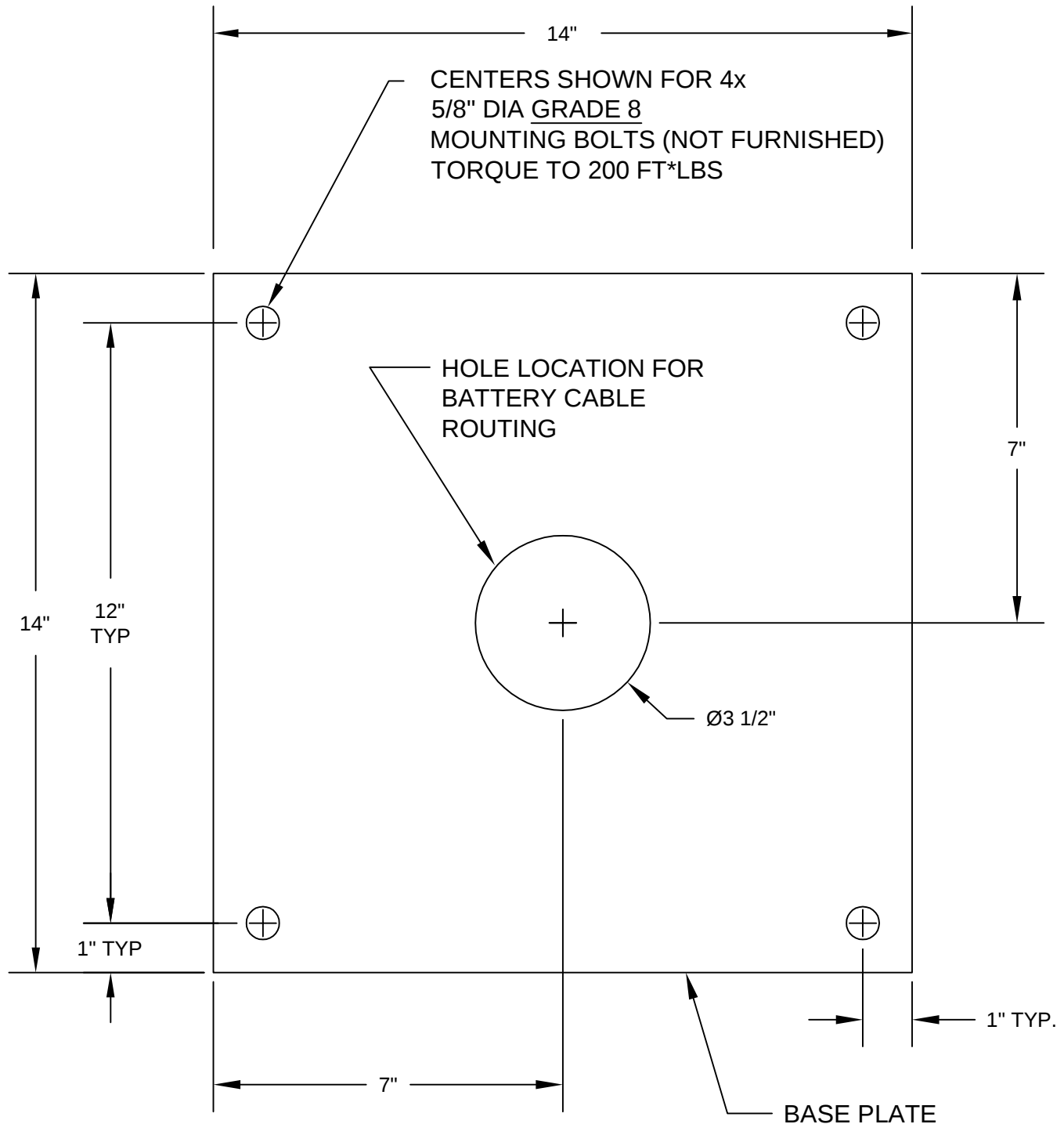
SECTION
C100

ET8K(X), W/ 6 - 10 - 14 FT BOOM

SUPERSEDES
08-25-15F

21821

21571 MOUNTING HOLE TEMPLATE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

21571 BASE MNTNG DIMS

DATE

10-22-14F

SECTION

C100

SUPERSEDES

12-20-13E

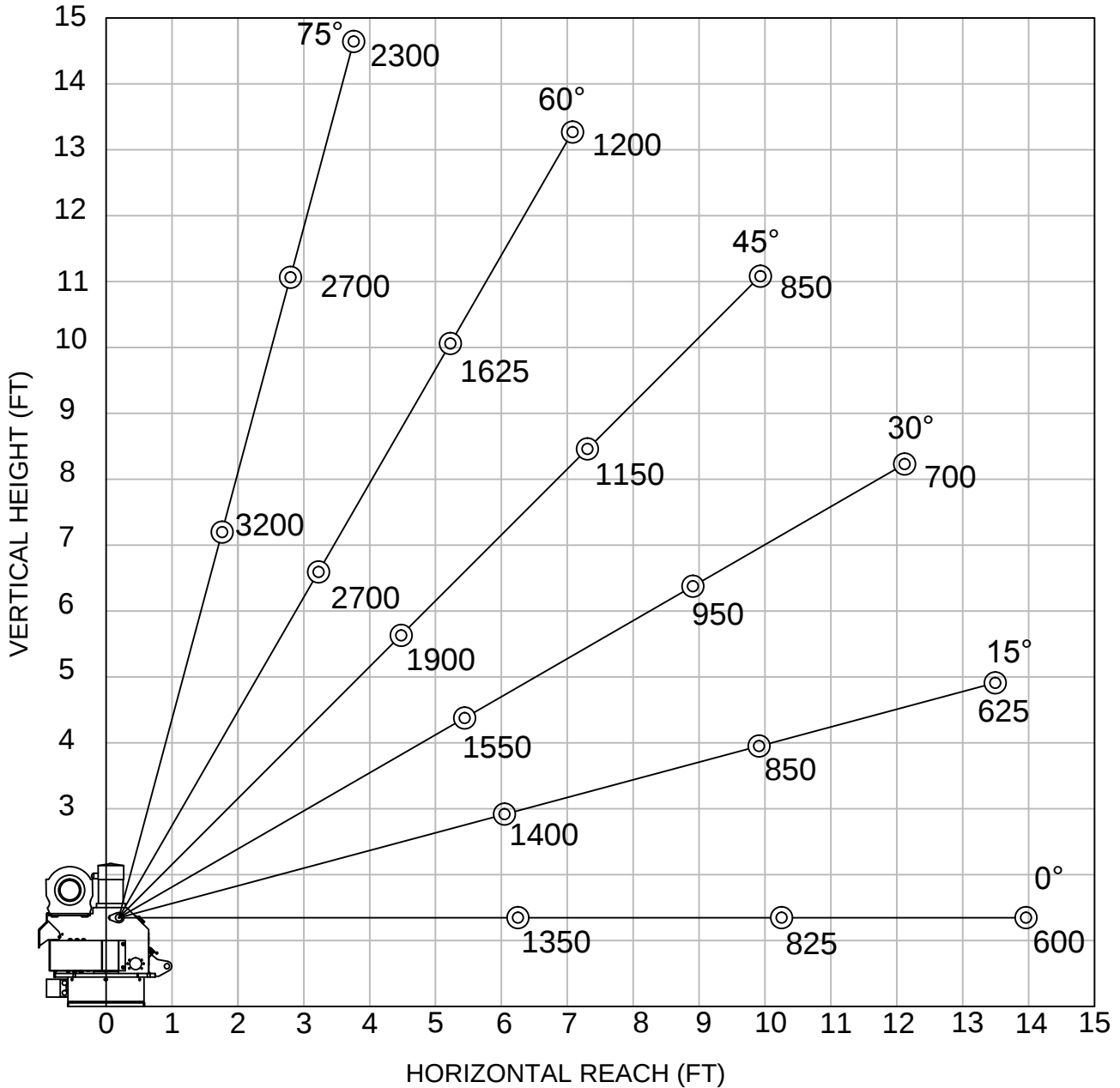
ET8/12/16/18 CRANES

21592

ET8K(X), 6'-10'-14' BOOM

▲ CRANE SERIAL NUMBER: _____

MAXIMUM LOAD CAPACITY CHART



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 1600 LBS

2 PART LINE FOR LOADS OF 1600 LBS AND GREATER

WEIGHT OF LOAD BLOCK = 24 LBS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAXIMUM LOAD CAPACITY

ET8K(X), 6'-10'-14' BOOM

DATE
05-03-16D

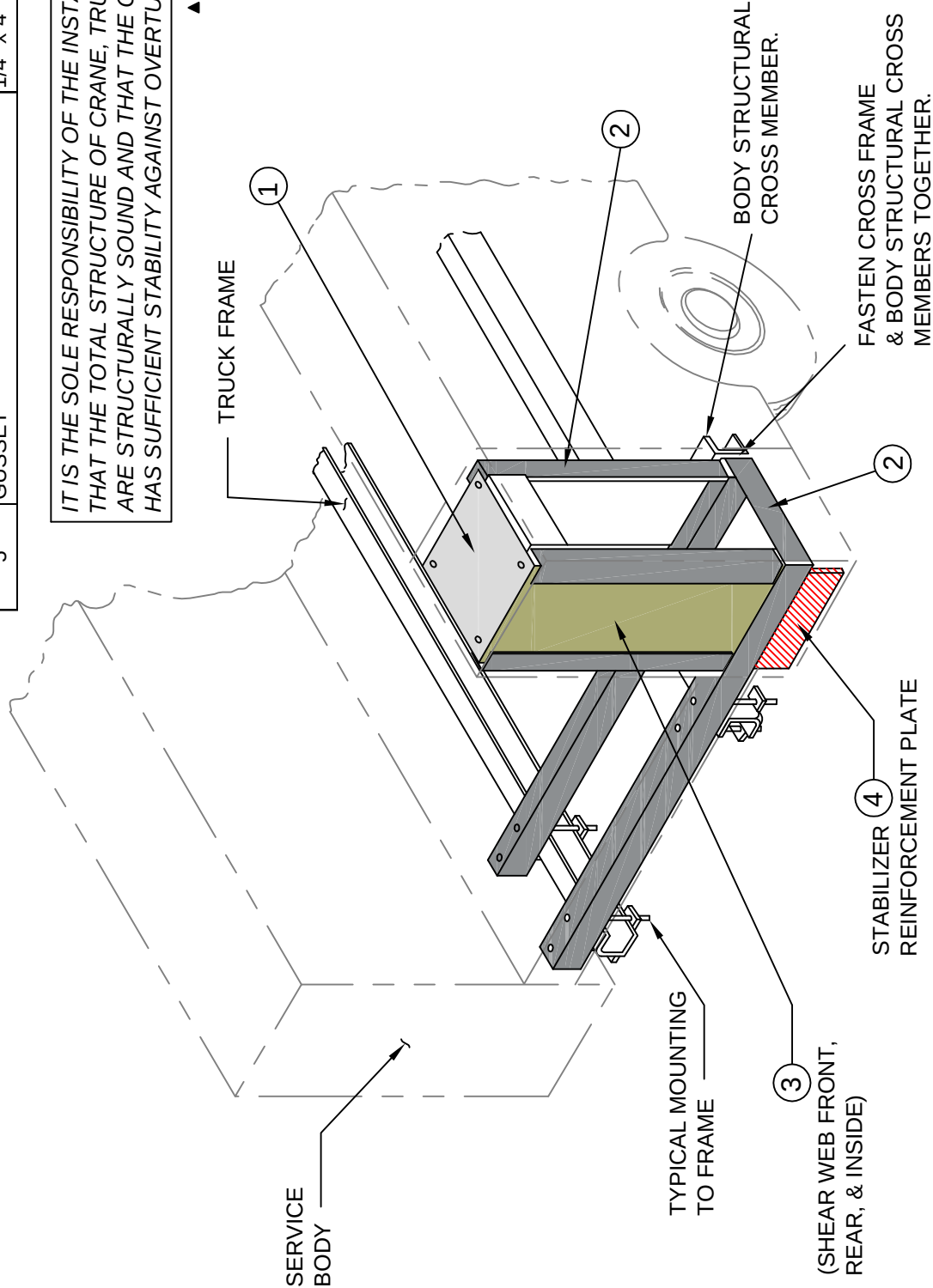
SUPERSEDES
09-09-13C

SECTION
C100

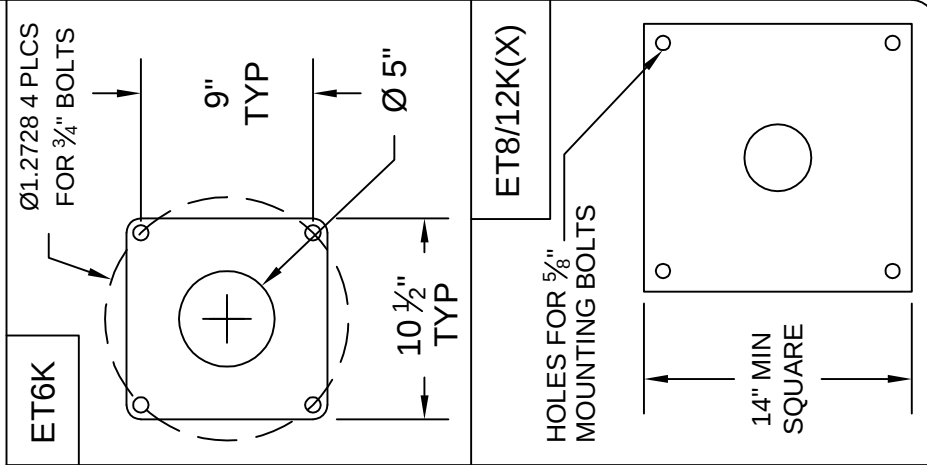
21701

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)

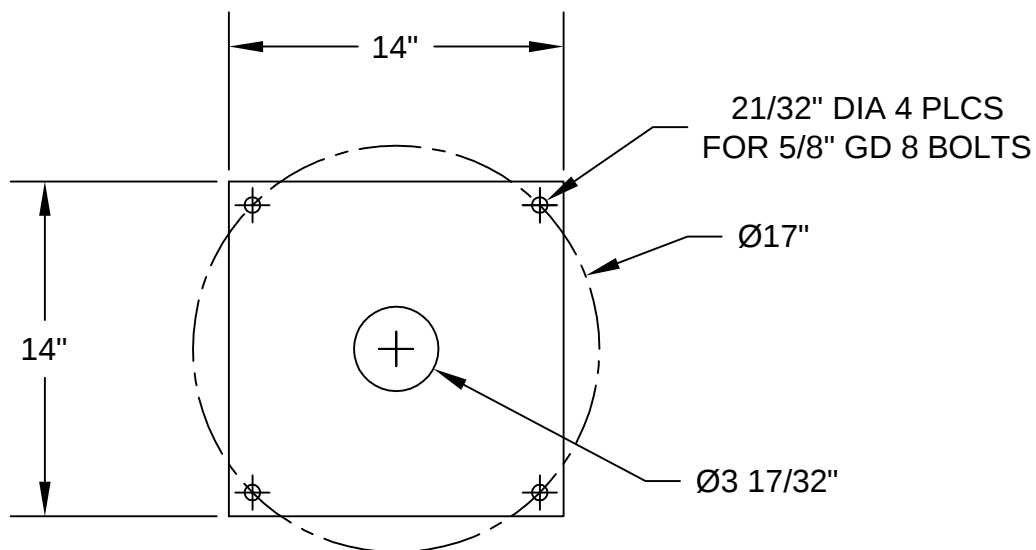
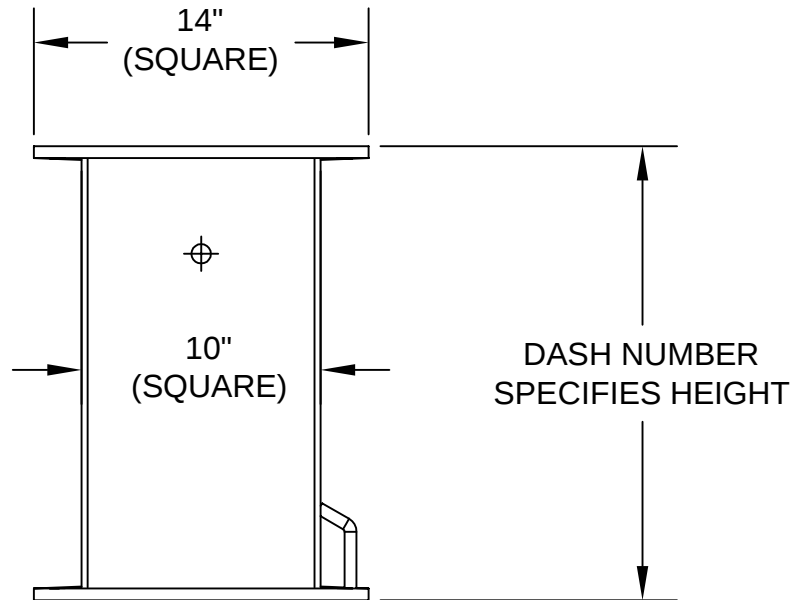
IT IS THE SOLE RESPONSIBILITY OF THE INSTALLER TO INSURE THAT THE TOTAL STRUCTURE OF CRANE, TRUCK, AND STABILIZERS ARE STRUCTURALLY SOUND AND THAT THE COMPLETED VEHICLE HAS SUFFICIENT STABILITY AGAINST OVERTURNING.



ILLUSTRATIONS NOT TO SCALE



21571-XX MOUNTING PEDESTAL



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

21571 MNTNG PEDESTAL

ET8/12K(X) CRANES ▲

DATE

11-20-14C

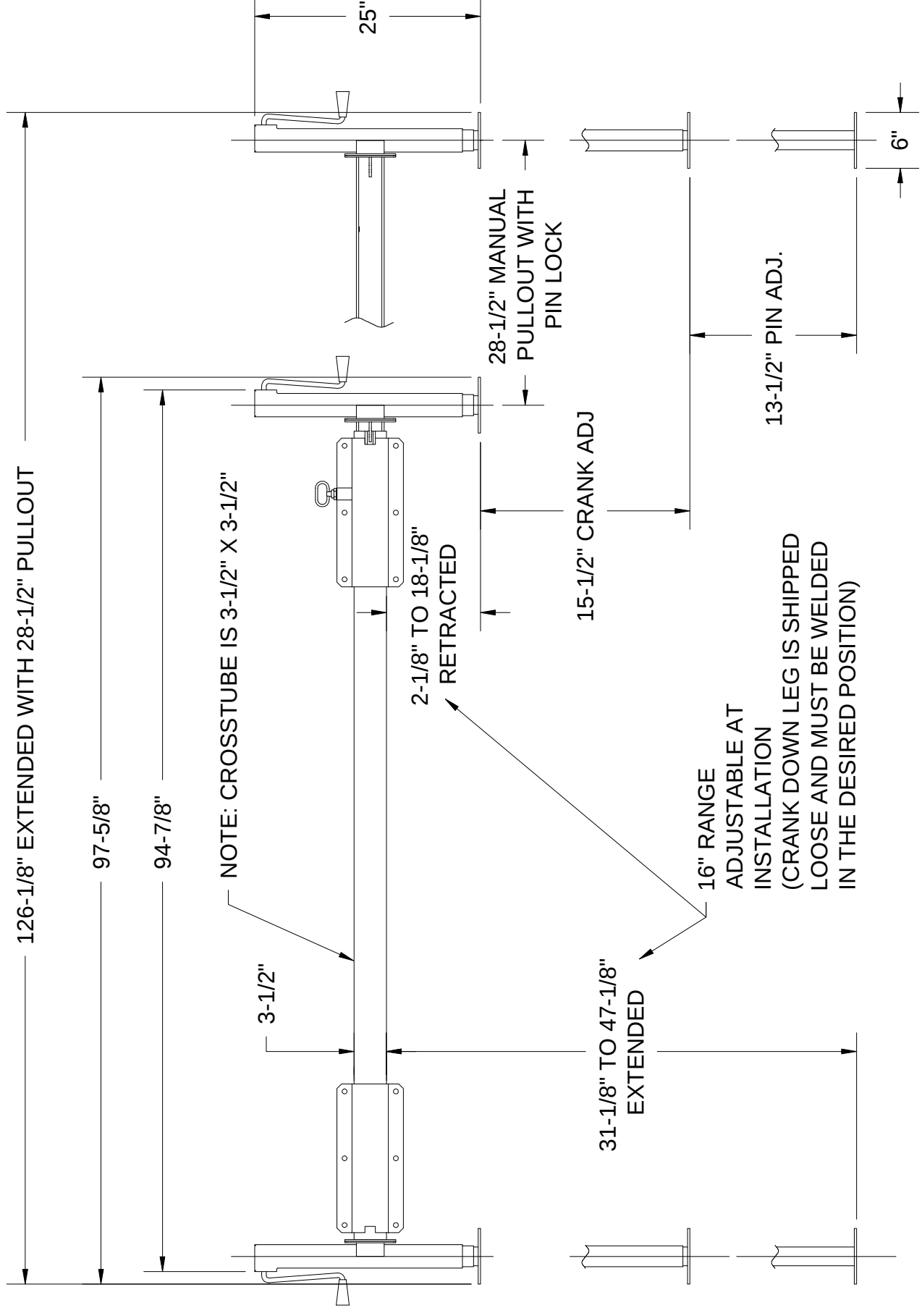
SUPERSEDES

12-20-13B

SECTION

C100

21594

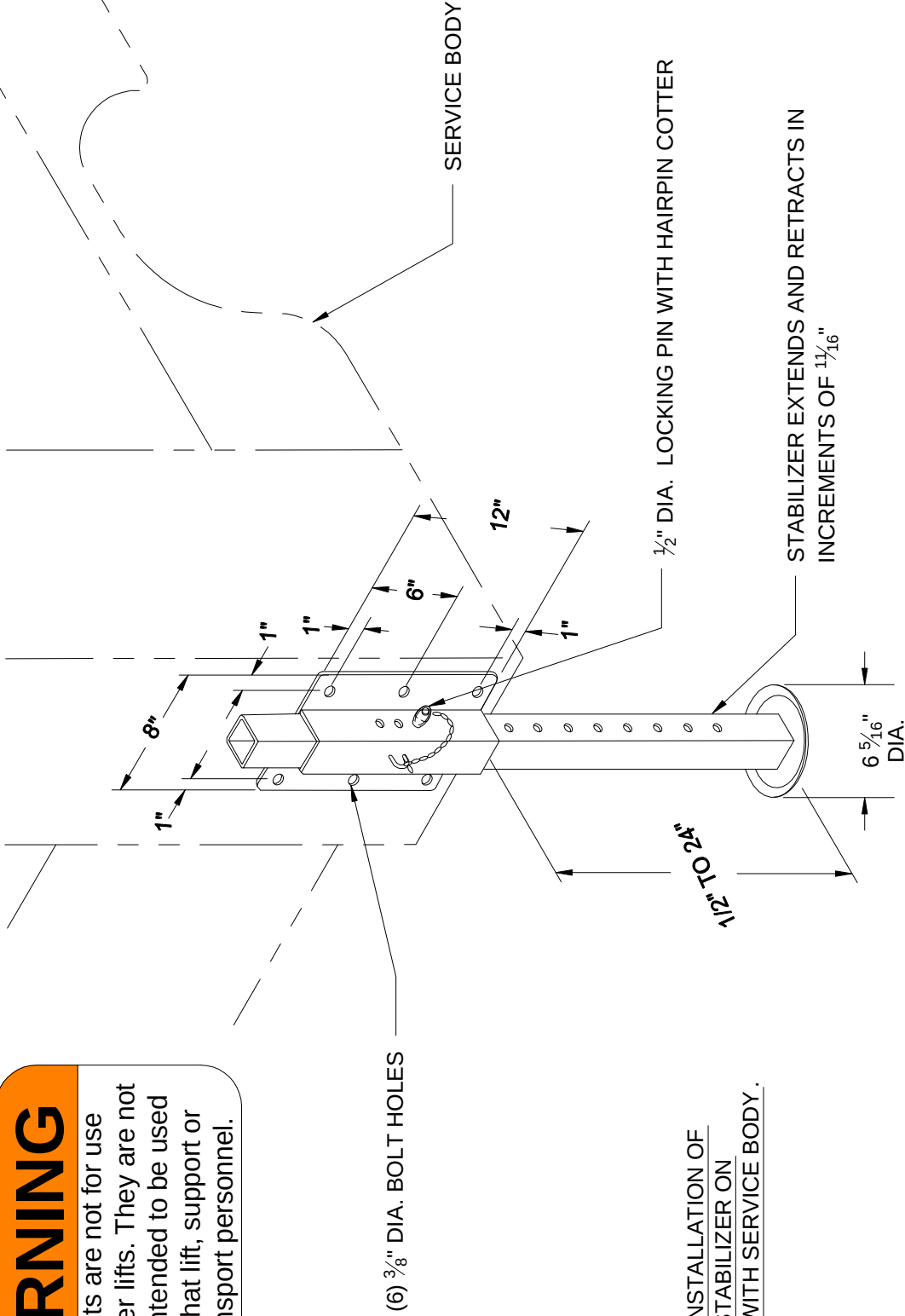


	TITLE		SECTION	
	INSTALLATION DRAWING		C100	
	18500-CD STABILIZER		22686	
MANUFACTURING, INC. CINCINNATI, OHIO		DATE	SUPERSEDES	
		12-20-13B	01-13-05A	

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.



TYPICAL INSTALLATION OF
MANUAL STABILIZER ON
VEHICLE WITH SERVICE BODY.

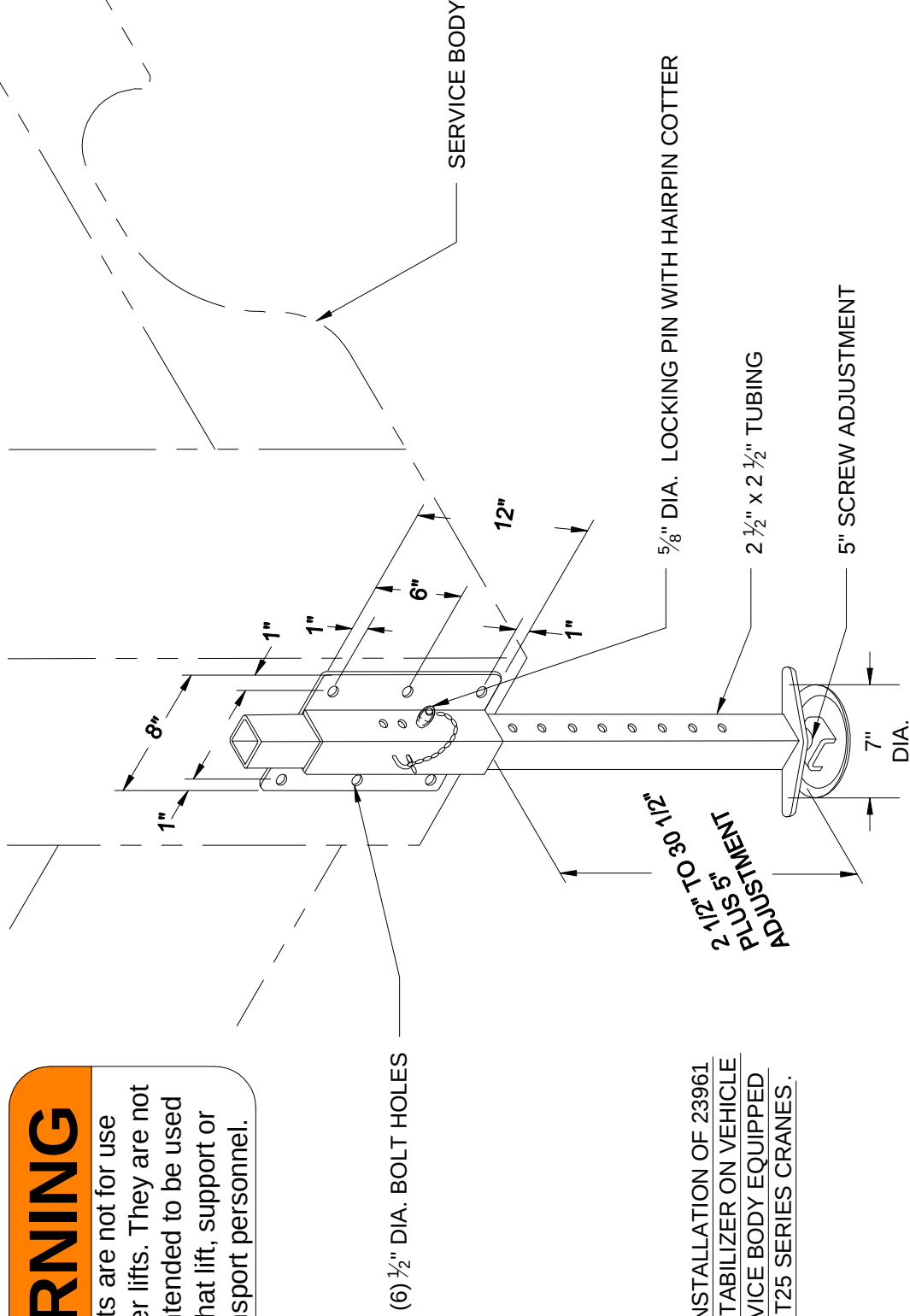
	TITLE INSTALLATION DRAWING ET6/8/12K(X)	DATE 12-20-13F SUPERSEDES 10-02-12E	SECTION C100	13509

MANUFACTURING, INC.
CINCINNATI, OHIO

23961 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.

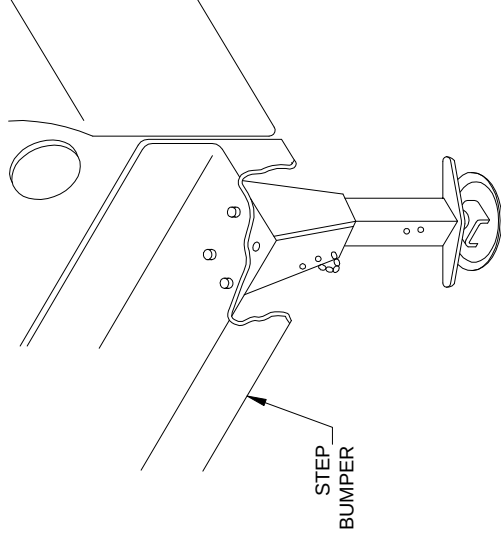
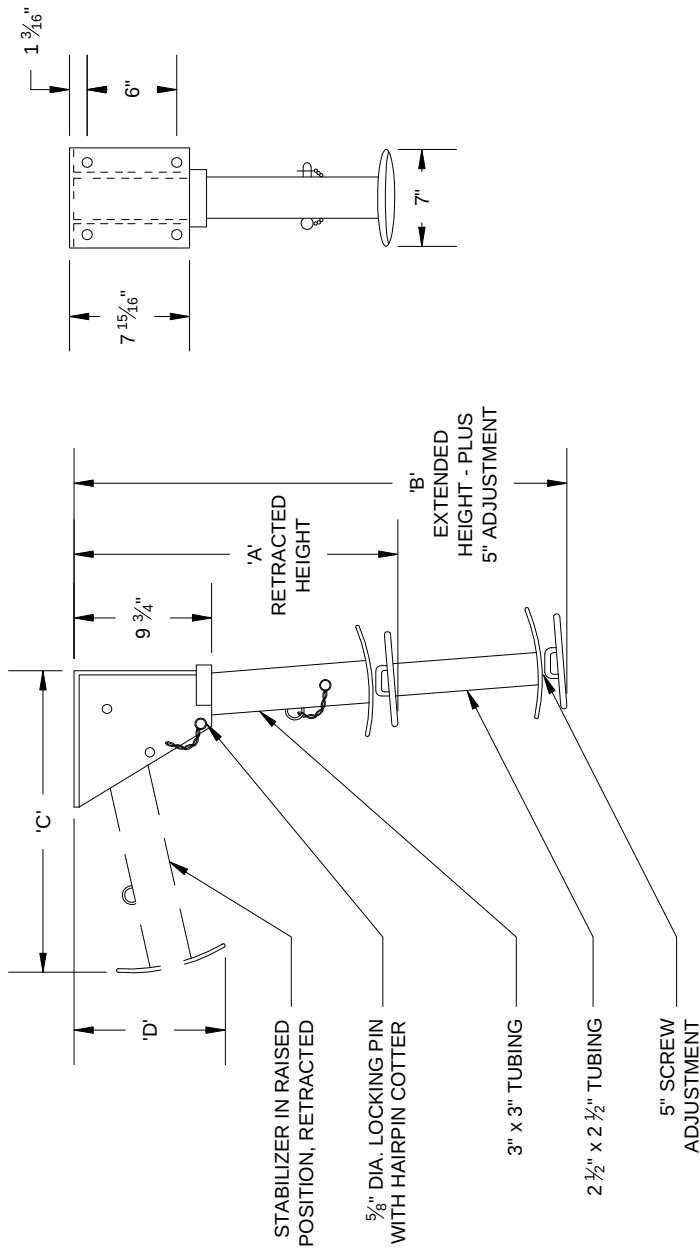
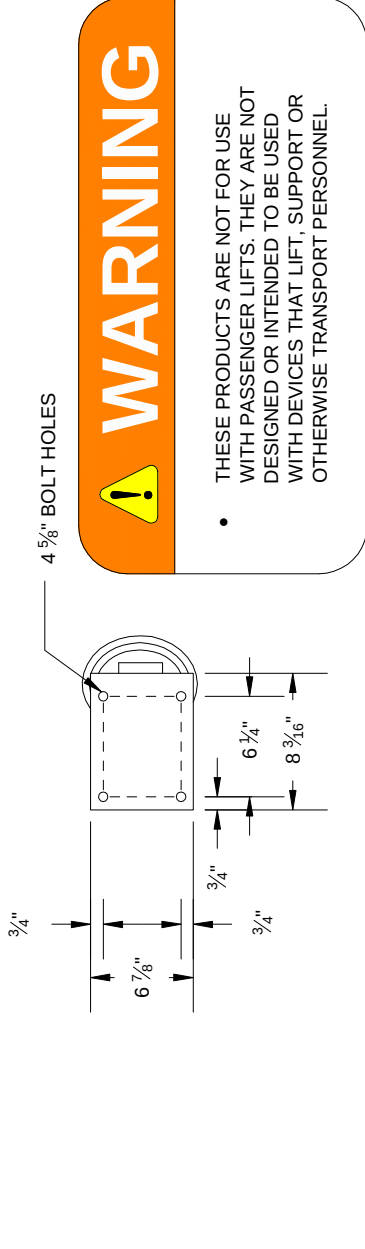


TYPICAL INSTALLATION OF 23961
MANUAL STABILIZER ON VEHICLE
WITH SERVICE BODY EQUIPPED
WITH ET/HT25 SERIES CRANES.

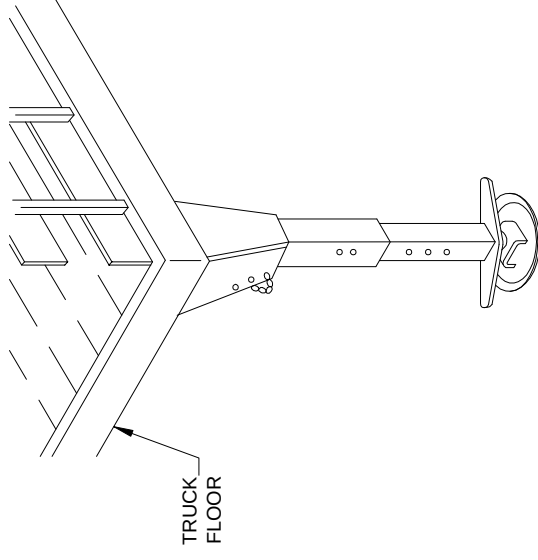
 MANUFACTURING, INC. CINCINNATI, OHIO	TITLE	DATE	SECTION
	INSTALLATION DRAWING	12-20-13H	C100
ET6/8/10/12/25K(X), HT25KX		SUPERSEDES	I23961

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"



TYPICAL SHORT STABILIZER INSTALLATION



TYPICAL LONG STABILIZER INSTALLATION

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

DATE
12-20-13H
SUPERSEDES
04-25-12G

SECTION
C100

I23960

MANUFACTURING, INC.
CINCINNATI, OHIO



SECTION 150

SAFETY

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

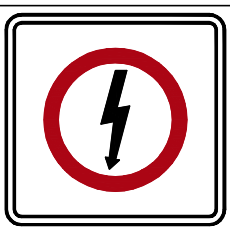
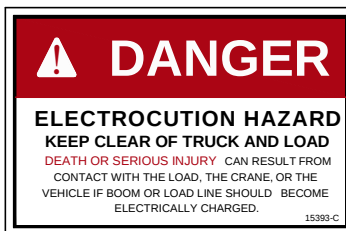
ELECTRIC CRANES

SUPERSEDES

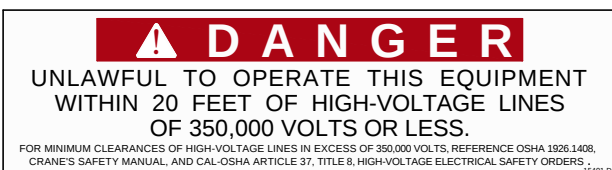
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850712

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

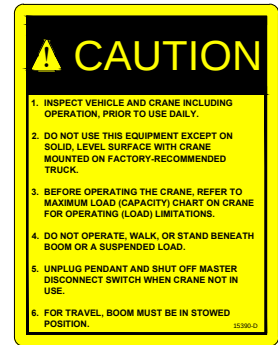
DECAL #: 15390

DESCRIPTION: CAUTION, INSPECT VEHICLE & CRANE...

PURPOSE: TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



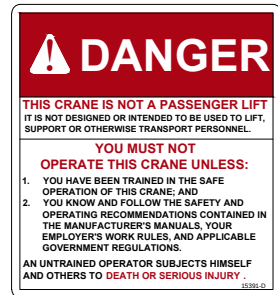
DECAL #: 15391

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



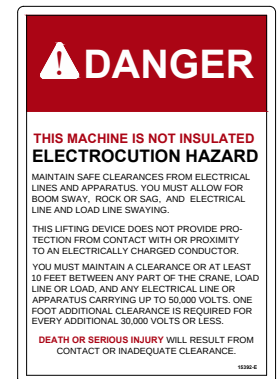
DECAL #: 15392

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



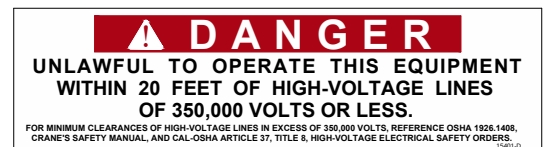
DECAL #: 15401

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



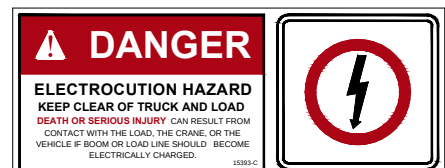
DECAL #: 15393

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.



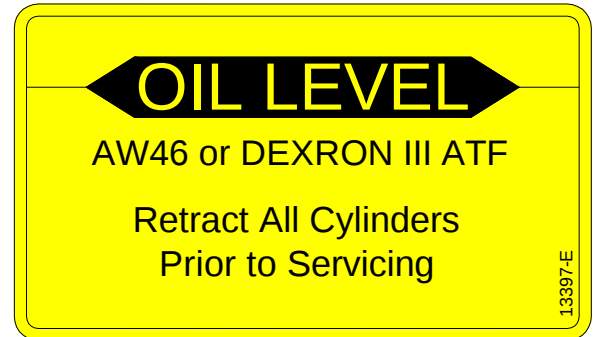
PART NO.: 13397

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.



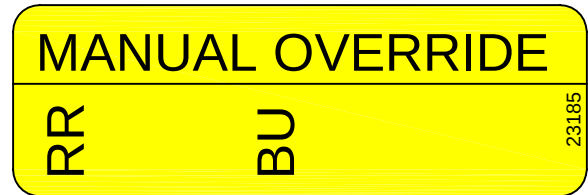
MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
DECALS
ET CRANES

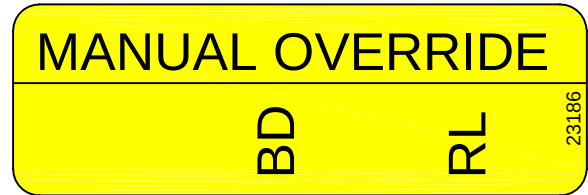
DATE
12-23-13D
SUPERSEDES
04-19-13C

SECTION
C150
21354

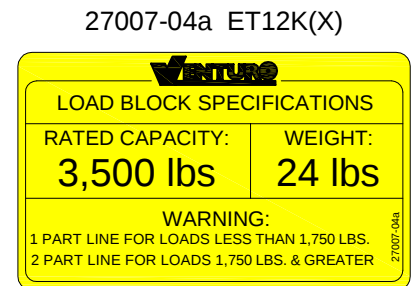
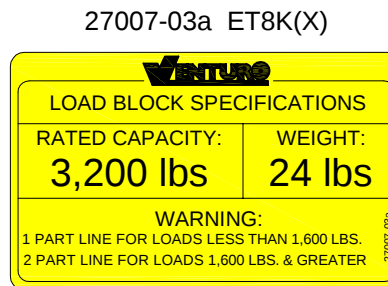
PART NO.: 23185
 DECAL: MANUAL OVERRIDE DECAL (ET8/12K)
 FUNCTION: To show the manual override ports.
 QUANTITY: 1
 PLACEMENT: Right side of housing.



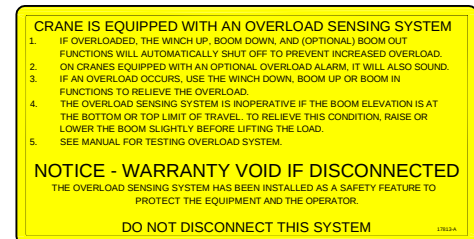
PART NO.: 23186
 DECAL: MANUAL OVERRIDE DECAL (ET8/12K)
 FUNCTION: To show the manual override ports.
 QUANTITY: 1
 PLACEMENT: Left side of housing.



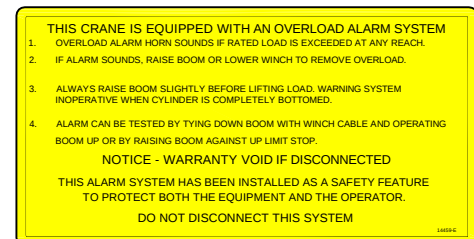
▲
 PART NO.: 27007-03a (ET8) / 27007-04a (ET12)
 DECAL: LOAD BLOCK CAPACITY DECAL
 FUNCTION: To show the capacity of load block.
 QUANTITY: 2
 PLACEMENT: Each side of load block.



PART NO.: 17813
 DECAL: OVERLOAD SENSING SYSTEM DECAL
 FUNCTION: To advise operator of overload sensing system.
 QUANTITY: 1
 PLACEMENT: Right side of housing.



PART NO.: 14459 (WITH OPTIONAL ALARM)
 DECAL: OVERLOAD ALARM SYSTEM DECAL
 FUNCTION: To advise operator of overload alarm system.
 QUANTITY: 1
 PLACEMENT: Right side of housing.



VENCO VENTURO INDUSTRIES LLC
 CINCINNATI, OHIO

TITLE
 ADDITIONAL DECALS
 ET8/12K(X)

DATE
 04-20-16D
 SUPERSEDES
 07-22-14C

SECTION
 C150
 28041

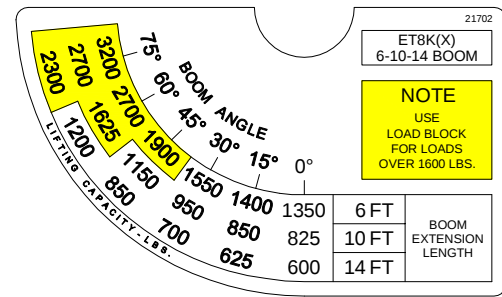
PART NO.: 21702 & 21703 (OPPOSITE)

DECAL: CRANE CAPACITY

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

QUANTITY: 1 each

PLACEMENT: One on each side of boom.



PART NO.: 21824

DECAL: MODEL NUMBER (ET8K)

FUNCTION: To show the model of the crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.



PART NO.: 21823

DECAL: MODEL NUMBER (ET8KX)

FUNCTION: To show the model of the crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.



PART NO.: 23188

DECAL: MANUAL OVERRIDE RIGHT (ET8/12KX)

FUNCTION: To show the manual override ports.

QUANTITY: 1

PLACEMENT: Right side of housing.



PART NO.: 23184

DECAL: MANUAL OVERRIDE LEFT (ET8/12KX)

FUNCTION: To show the manual override ports.

QUANTITY: 1

PLACEMENT: Left side of housing.



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
MODEL/CAPCTY DECALS
ET8K(X)

DATE
09-09-13B
SUPERSEDES
04-13-13A

SECTION
C150
21825

SECTION 200

INSTALLATION



!! 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 BATTERY SIZE

MINIMUM WIRE GAUGE AND BATTERY SIZE										
MODEL	TOTAL LENGTH OF CABLE (FT) *								12 VOLT 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	#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

09-27-17W

SECTION

C200

ELECTRIC CRANES

SUPERSEDES

08-25-15V

711105

RECOMMENDED CIRCUIT BREAKER TABLE

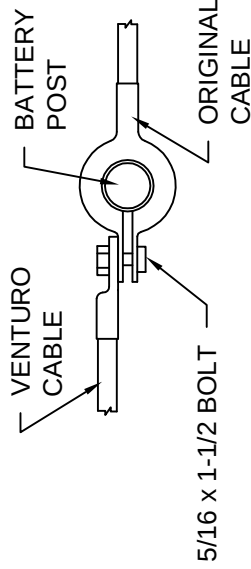
CRANE	DESCRIPTION	PART NO.
CT310KX	250 AMP, MAN RESET	22946-250
DT7	250 AMP, MAN RESET	22946-250
CE-1500-FB	150 AMP, MAN RESET	22946-150
CE6K	150 AMP, MAN RESET	22946-150
CT200X	250 AMP, MAN RESET	22946-250
ET6K	250 AMP, MAN RESET	22946-250
ET8/12K(X)	250 AMP, MAN RESET	22946-250
ET16/18KX	250 AMP, MAN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

BATTERY REQUIREMENTS

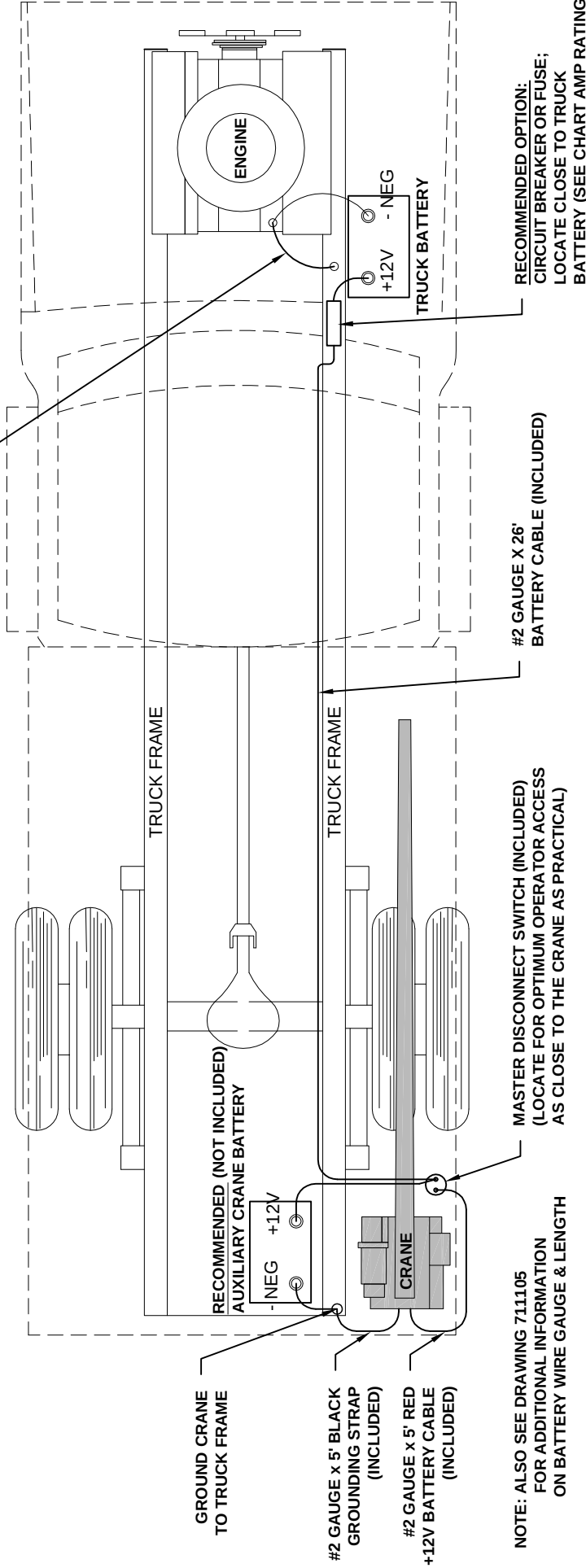
- 12 VOLT VEHICLE BATTERY REQUIREMENTS
 - 625 COLD CRANKING AMPS (AT 0° F)
 - 160 MINUTES RESERVE CAPACITY
 - 102 PLATES, 105 AMP-HR
- 12 VOLT AUXILIARY BATTERY REQUIREMENTS
 - 450 COLD CRANKING AMPS (AT 0° F)
 - 100 MINUTES RESERVE CAPACITY
 - 78 PLATES, 70 AMP-HR

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 07-31-15K
SECTION C200

SUPERSEDES

10-17-14J

15660

STABILITY TESTING - ET8K(X)

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%.

Testing Procedure

1. ▲ Locate the truck on firm level ground and set the parking brake.
2. ▲ 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 the wire rope and other key components of crane (consult owners manual for more information).
4. Conduct an operational check of all crane functions.
5. Use a test weight of 650 lbs in conjunction with the ET8K(X)'s load block (weight = 23 lb).
6. Do NOT allow the weight to be more than 6 inches from the ground at any time during testing - this insures that if the truck does become unstable and tip, it will not tip far.
7. Rotate the crane to a position between 1 and 2 o'clock (the truck cab is facing 12 o'clock).
8. Be sure that the boom is horizontal (0° elevation) with the hydraulic section fully retracted and the manual section fully extended; the boom should begin at a length of 10 feet. Note: On the ET8K, testing will be more difficult, because it will require an iterative ("trial and error") approach; please call technical support for more information.
9. Use the winch to lift the test weight, keeping it within 6 inches of the ground.
10. Extend the boom slowly until the boom reaches full extension (168 inches) or until the truck becomes unstable. As you extend, use the winch to keep the weight within 6 inches of the ground.
 - a. If the boom reaches full extension, the % of Rated Capacity is 100% for the tested region.
 - b. If, however, the truck becomes unstable (both tires leave the ground) prior to full extension, record (in inches) the horizontal distance from the center of rotation to the wire rope at this point (e.g. 140 inches). This is the Maximum Stable Reach. Determine the % of Rated Capacity using the following formula:

$$\% \text{ Rated Capacity} = \frac{\text{"Max. Stable Reach" in inches}}{168} \times 100$$

11. Record the % of Rated Capacity in the appropriate blank on the Crane Stability chart and/or decal.
12. Repeat Steps 7-11 for each of the remaining regions (2-3 o'clock, 3-4 o'clock, etc.).



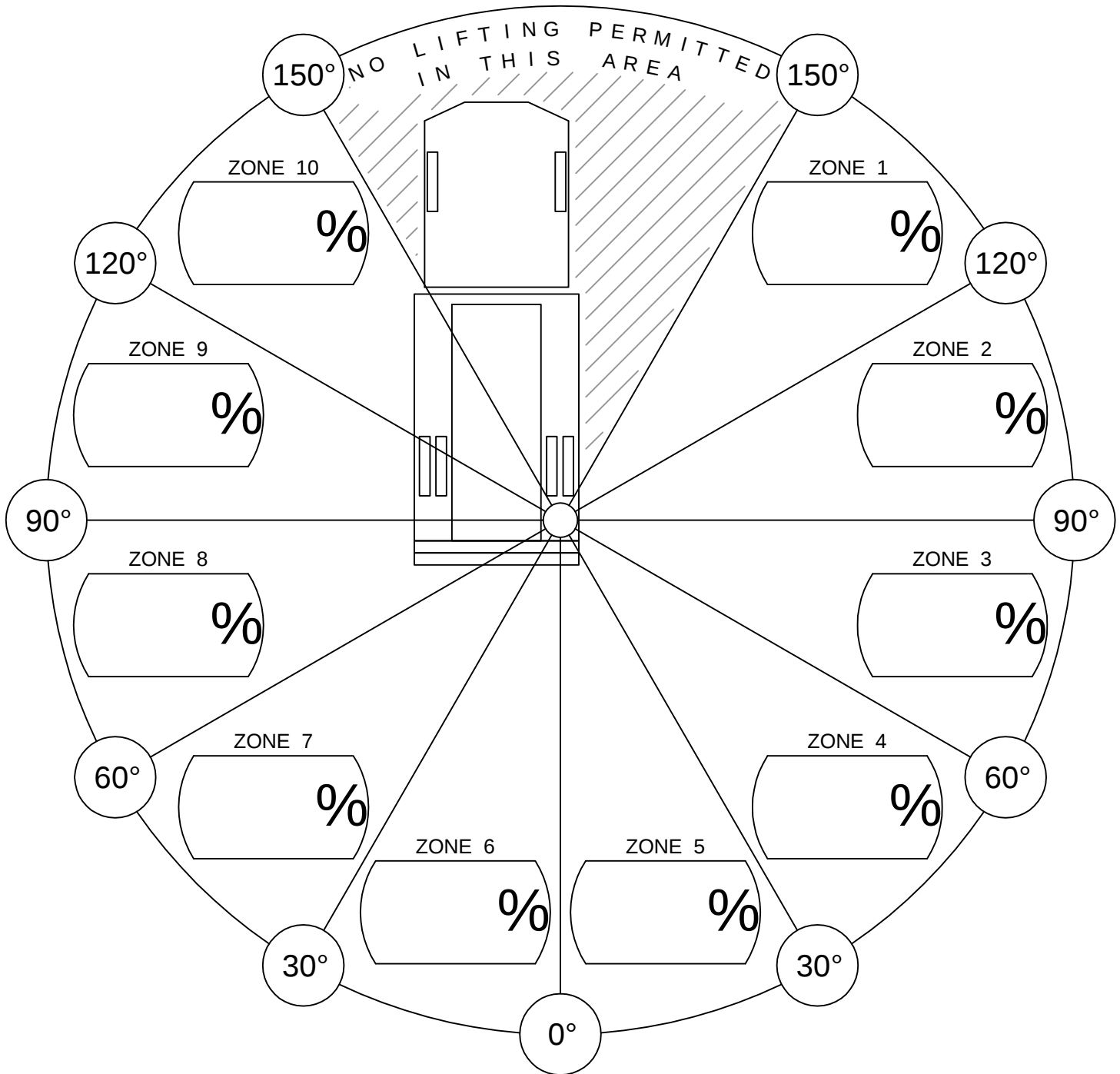
MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
STABILITY TEST
ET8K(X)

DATE
09-09-13B
SUPERSEDES
08-15-11A

SECTION
C200
20906-8

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

CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

SAFETY

Before operating this crane, read and understand these instructions, the 850711 Crane Safety and Hazards Information Sheet, 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 ET8K(X) and ET10K(X), or
 - 1750 lbs. for the ET12K(X),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 drawing 27423, 21701, 17450, or 21575, respectively.

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 four [4] switches 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

01-15-15G

SECTION

C200

ET6/8/10/12K(X)

SUPERSEDES

12-26-13F

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 - 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.

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

01-15-15F

SECTION

C200

SUPERSEDES

12-26-13E

ET6/8/10/12K(X)

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
ET6/8/10/12K(X)

DATE
12-26-13E
SUPERSEDES
05-27-06D

SECTION
C200
900530C

WIRE ROPE INSTALLATION

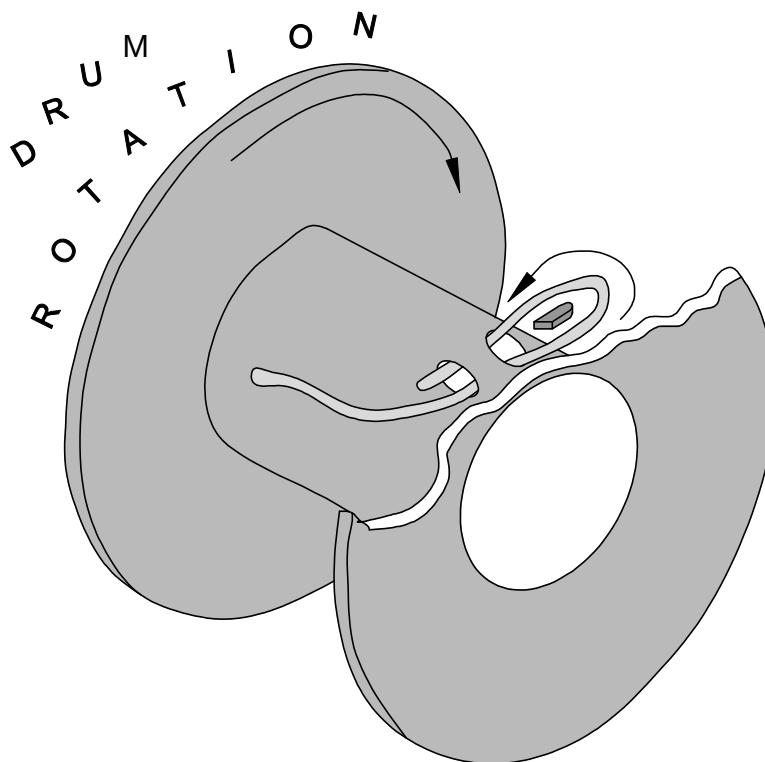


FIG. 1

- 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

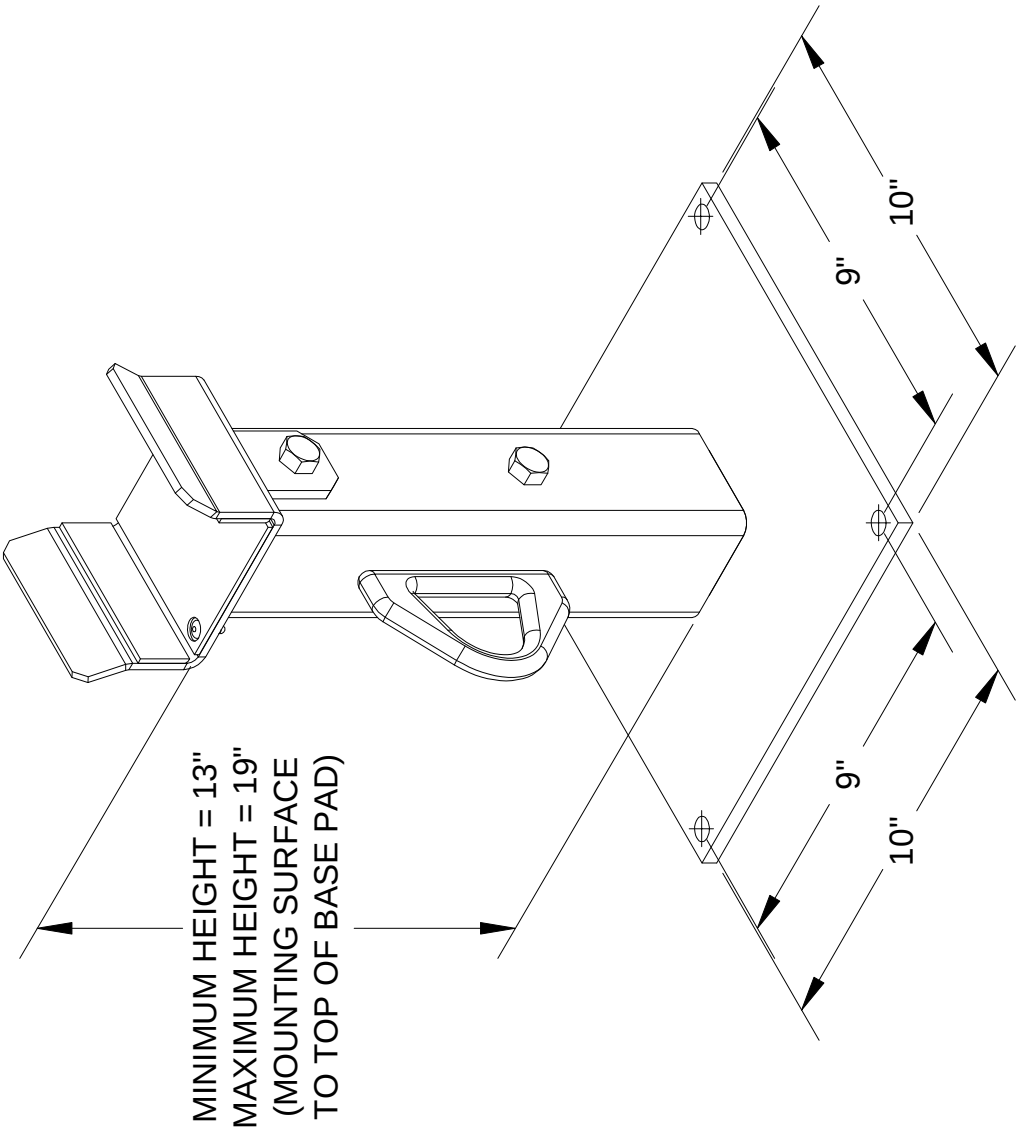
ET6K & LARGER CRANES

SUPERSEDES

12-26-13J

22245

21440 ADJUSTABLE BOOM REST



 MANUFACTURING, INC. CINCINNATI, OHIO	TITLE INSTALLATION DRAWING ET6/8/12K(X)	DATE 12-26-13A	SECTION C200
		SUPERSEDES 03-06-07	20872

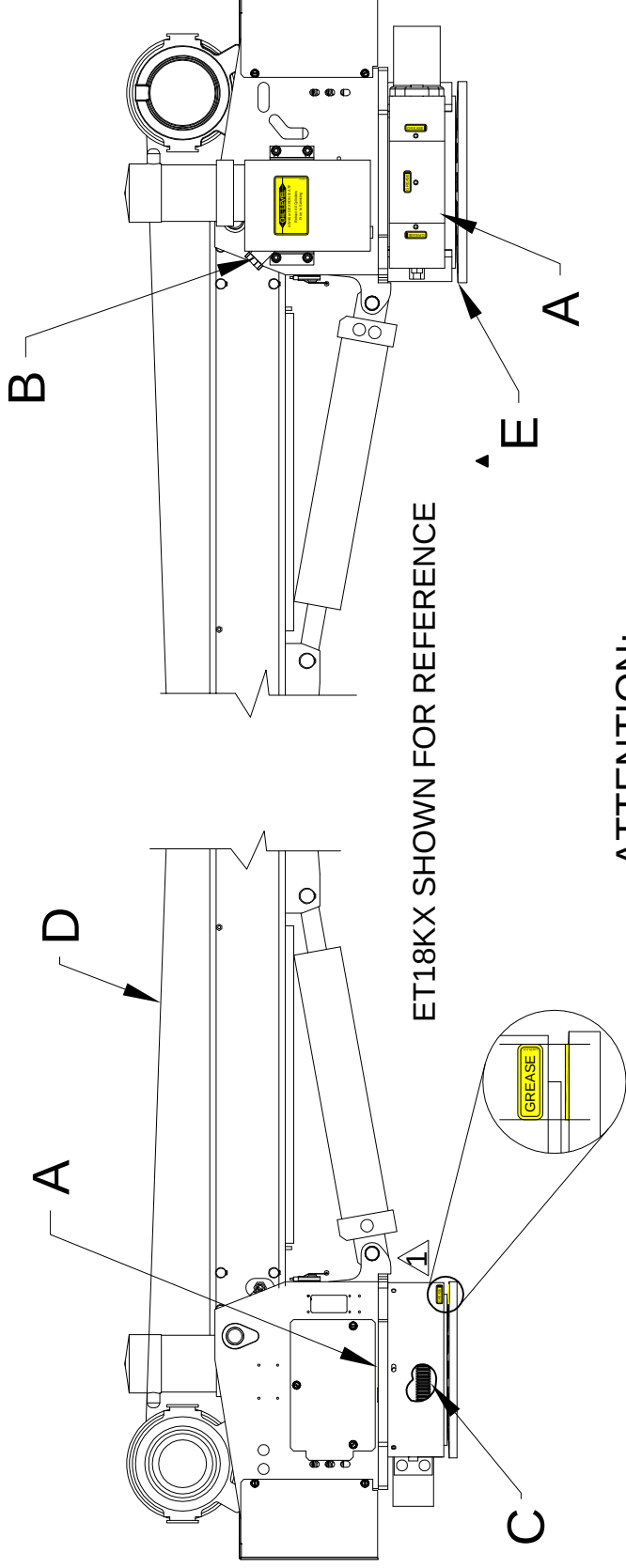
SECTION 300

MAINTENANCE

&

SERVICE





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

ET8/12K(X) AND ET16/18KX ▲

DATE 11-18-14H

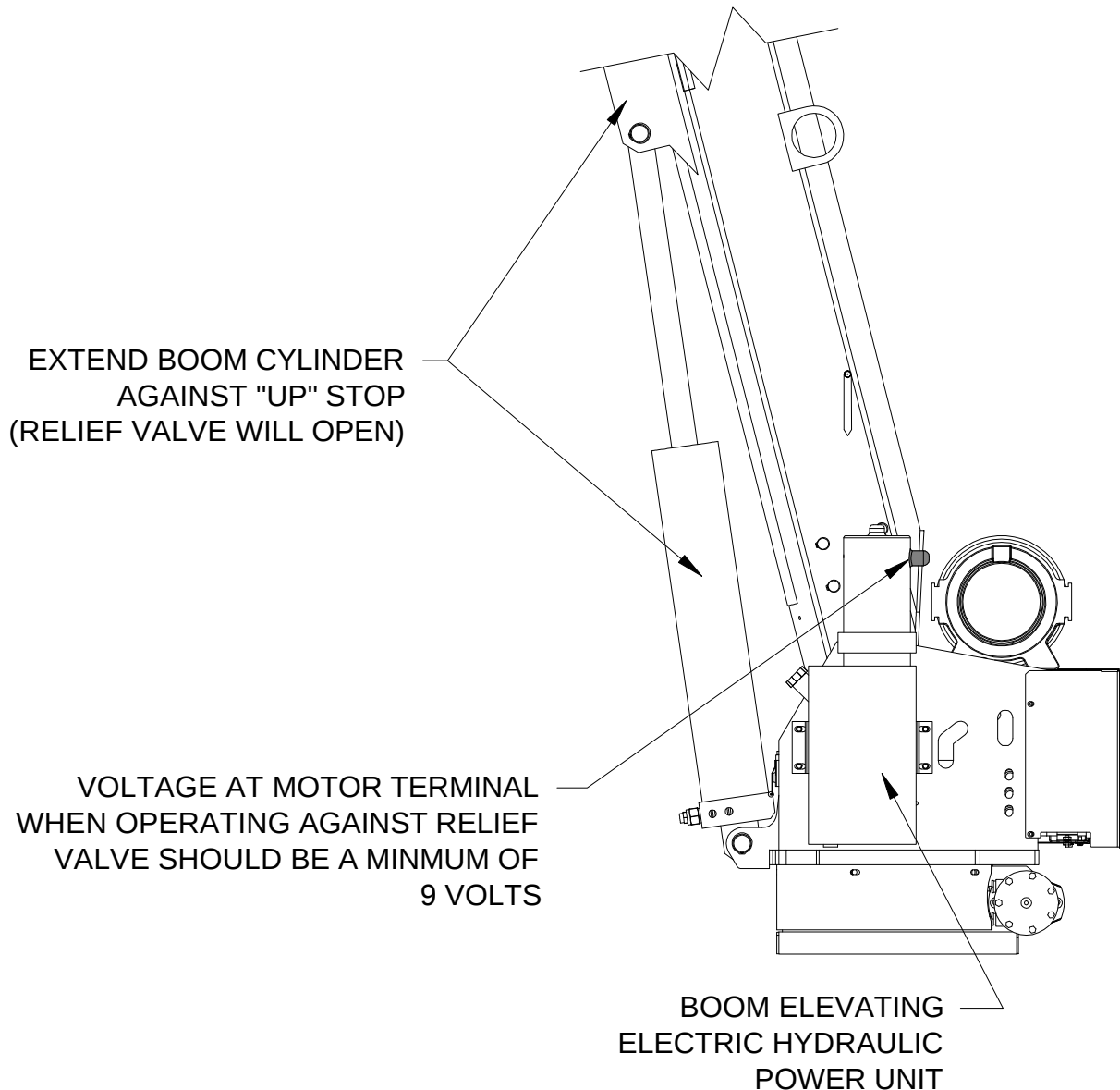
SUPERSEDES 10-22-14G

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:

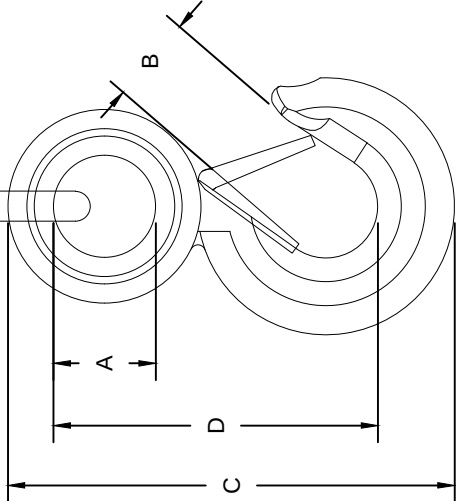
3/16" DIA, 50' LONG

▲ GAC 7X19 LHRL-IWRC, SB 4200 LBS

ET8/12K(X) WIRE ROPE:

1/4" DIA, 65' LONG

▲ GAC 7X19 IPS-LHRL-IWRC, SB 7000 LBS



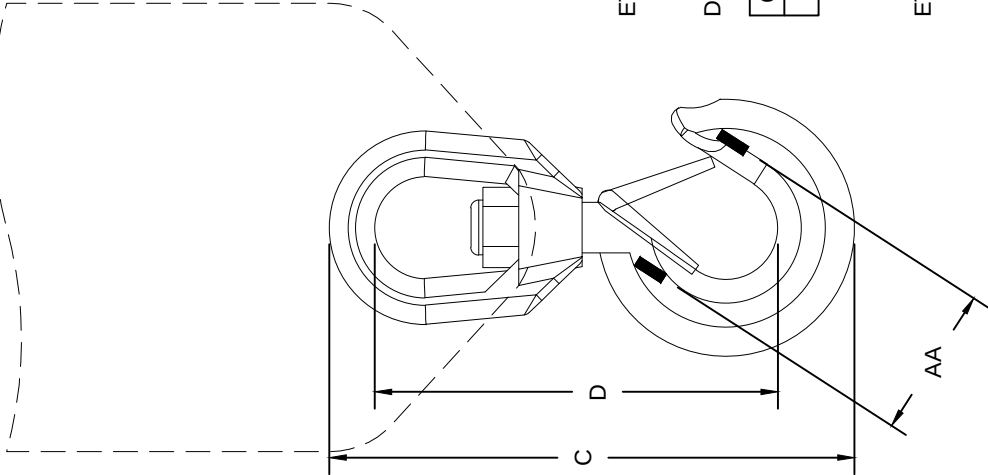
WIRE ROPE HOOK:

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"

ET8/12K(X) LOAD BLOCK HOOK:

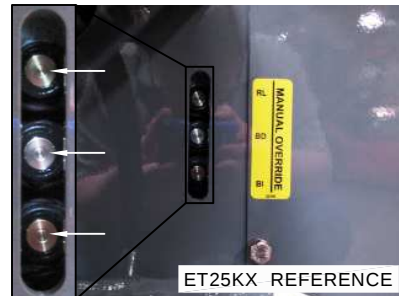
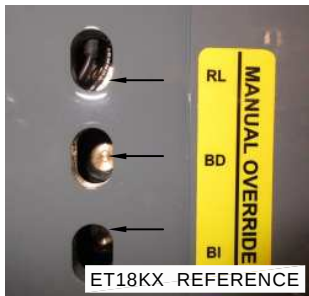
RATING: 2 TONNE (4410 LBS)

DIMENSIONS:

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

MANUAL OVERRIDE INSTRUCTIONS ET 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

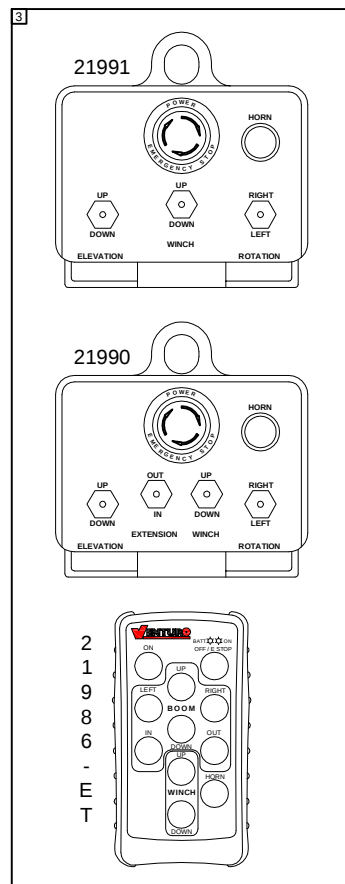
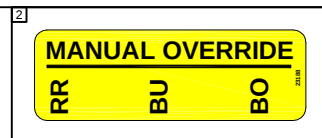
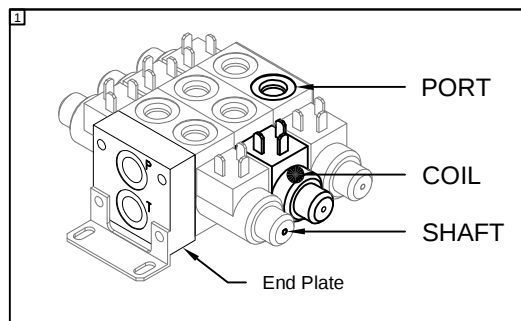
3-STATION FUNCTIONS include previous functions, plus:

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 HARNESES 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 SERIES CRANES

DATE
02-09-17

SUPERSEDES
-

SECTION
C200

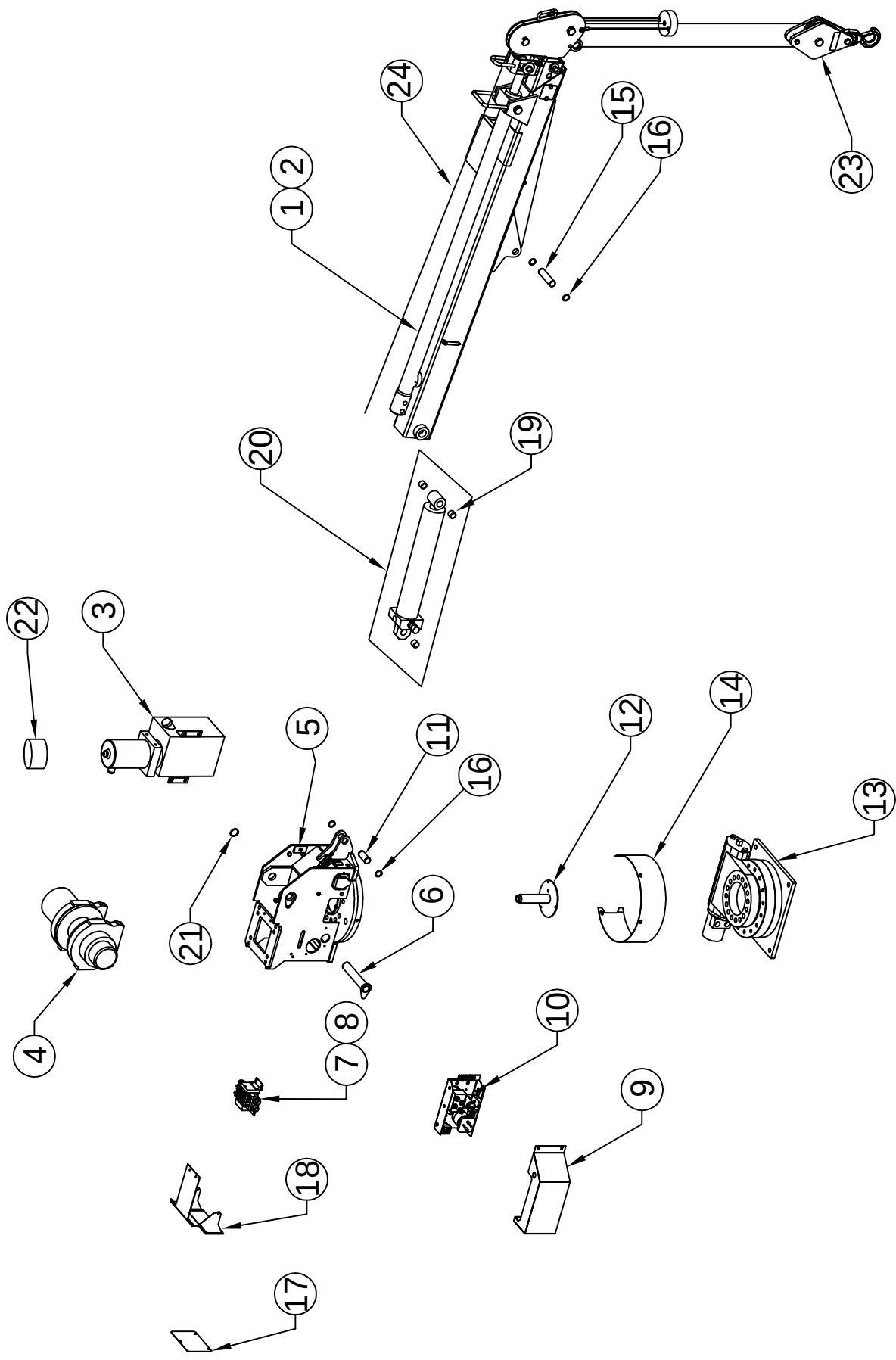
23084

SECTION 400

PARTS



REPLACEMENT PARTS DRAWING



REPLACEMENT PARTS LIST 28035

	VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		TITLE	REPLACEMENT PARTS DRAWING		SECTION	C400
	ET8K(X) GEN. B ▲		DATE	01-15-15C		SUPERSEDES	12-26-13B
							28034



REPLACEMENT PARTS LIST

24	1	21639	Wire rope Assembly - 1/4" x 65'
23	1	20670	Load Block
22	1	16143-3	Motor Boot
21	1	!SRNG-125	Snap Ring - 1-1/4
20	1	21788	Elevation Cyl. Assy - Includes Comp. Bearings
19	1	21789	Composite Bearing - 3ea / Cylinder Required
18	1	27626	Upper Rear Cover
17	1	21624	Lower Rear Cover Plate
16	4	!SRNG-113	Snap Ring - 1-1/8
15	1	21547	Pin - Elevation Cylinder Rod End
14	1	21185	Rotation Gear Cover
13	1	21735	Rotation Drive System
12	1	21506	'Candlestick' for Electrical Swivel
11	1	21546	Pin - Elevation Cylinder Base End
10	1	21515	Electrical Components Assembly
9	1	21621	Side Cover
8	1	21615	Manifold w/ 2 Valves/Coils - ET8K
7	1	21614	Manifold w/ 3 Valves/Coils - ET8KX
6	1	21540	Pivot Pin - Main Boom Pivot
5	1	21811	Housing Welded Assembly
4	1	21556	Winch
3	1	20873	Hydraulic Power Unit
2	1	28022	Boom Final Assembly - ET8K
1	1	28022-1	Boom Final Assembly - ET8KX
ITEM	QTY	PART NO.	DESCRIPTION

FOR REPLACEMENT PARTS DRAWING SEE 28034



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
RPLCMNT PARTS LIST
ET8K(X), GEN. B

DATE
09-09-13C
SUPERSEDES
10-26-12B

SECTION
C400
28035

FASTENER / HARDWARE LIST, ET8/12K(X) MECH ASSEMBLY

PART #	DESCRIPTION	QTY	INSTALLATION / LOCATION
IHC03118063	HEX HEAD CAP SCREW; 5/16-18 X 5/8", GR. 5, ZINC	1	GROUND CABLE TO CANDLESTICK
ILWSH-031	LOCK WASHER; 5/16", GR. 5, ZINC	1	GROUND CABLE TO CANDLESTICK
ILWSH-031-STAR-SS	STAR WASHER; 5/16", EXTERNAL TOOTH, STAINLESS STEEL	1	GROUND CABLE TO CANDLESTICK
IHW02520063-F	HEX WASHER HEAD SCREW; 1/4-20 X 5/8", SELF-TAPPING	3	CANDLESTICK TO CRANE BASE
ILWSH-025-STAR-SS	STAR WASHER; 1/4", EXTERNAL TOOTH, STAINLESS STEEL	3	CANDLESTICK TO CRANE BASE
IZERK-01327NPT	GREASE FITTING; 1/8-27 NPT, STRAIGHT	1	SLEWING RING GEAR
IUNUT-02520	U-NUT; 1/4-20, 1/2" FROM HOLE TO EDGE	5	SLEWING RING COVER TO HOUSING
IHC02520075-5	HEX HEAD CAP SCREW; 1/4-20 X 3/4", GR. 5, ZINC	5	SLEWING RING COVER TO HOUSING
IWSH-025	FLAT WASHER; 1/4", GR. 5, ZINC	5	SLEWING RING COVER TO HOUSING
ILWSH-025	LOCK WASHER; 1/4", GR. 5, ZINC	5	SLEWING RING COVER TO HOUSING
IHC06311350	HEX HEAD CAP SCREW; 5/8-11 X 3 1/2", GR. 5, ZINC	13	HOUSING TO SLEWING RING (TORQUE 160 FT/LBS)
ILWSH-063	LOCK WASHER; 5/8", GR. 5, ZINC	13	HOUSING TO SLEWING RING
IHC012125035-8.8	HEX HEAD CAP SCREW; M12 1.25 X 35MM, GR. 8.8	4	WINCH TO HOUSING (TORQUE 60 FT/LBS)
ILWSH-050-HC	LOCK WASHER; 1/2", GR. 5, ZINC, HI-COLLAR	4	WINCH TO HOUSING
IHC02520075-5	HEX HEAD CAP SCREW; 1/4-20 X 3/4", GR. 5, ZINC	4	VALVE BLOCK TO HOUSING
ILWSH-025	LOCK WASHER; 1/4", GR. 5, ZINC	4	VALVE BLOCK TO HOUSING
IFNUT02520	LOCK NUT; 1/4-20, GR. 5, ZINC, FLANGE	4	VALVE BLOCK TO HOUSING
IHC03118100-5	HEX HEAD CAP SCREW; 5/16-18 X 1", GR. 5, ZINC	2	GROUND STUD TO HOUSING
ILWSH-031-STAR-SS	STAR WASHER; 5/16", EXTERNAL TOOTH, STAINLESS STEEL	4	GROUND STUD TO HOUSING
IWSH-031	FLAT WASHER; 5/16", GR. 5, ZINC	2	GROUND STUD TO HOUSING
ILNUT-03118	LOCK NUT; 5/16-18, GR. 5, ZINC, NYLON INSERT	2	GROUND STUD TO HOUSING
IHW02520063-F	HEX WASHER HEAD SCREW; 1/4-20 X 5/8", SELF-TAPPING	3	ELECTRICAL PANEL TO HOUSING
ILWSH-025-STAR-SS	STAR WASHER; 1/4", EXTERNAL TOOTH, STAINLESS STEEL	5	ELECTRICAL PANEL TO HOUSING
14883	RUBBER GROMMET; 3/8" I.D., 5/8" O.D. W/ 3/16" GROOVE	2	FRONT OF HOUSING
IPHC01024050	PAN HEAD CAP SCREW; #10-24 X 1/2", GR. 5, ZINC, PHILLIPS	2	TOP ANGLE SWITCH SUB-ASSEMBLY
ILWSH-#10	LOCK WASHER; #10, GR. 5, ZINC	2	TOP ANGLE SWITCH SUB-ASSEMBLY
IHNUT-#1024	HEX NUT; #10-24, GR. 5, ZINC	2	TOP ANGLE SWITCH SUB-ASSEMBLY
IHC02520075-5	HEX HEAD CAP SCREW; 1/4-20 X 3/4", GR. 5, ZINC	1	TOP ANGLE SWITCH BRACKET TO HOUSING
ILWSH-025	LOCK WASHER; 1/4", GR. 5, ZINC	1	TOP ANGLE SWITCH BRACKET TO HOUSING
IFNUT02520	LOCK NUT; 1/4-20, GR. 5, ZINC, FLANGE	1	TOP ANGLE SWITCH BRACKET TO HOUSING
IPHC00832050	PAN HEAD CAP SCREW; #08-32 X 1/2", GR. 5, ZINC, SLOT	4	PENDANT SOCKET CASE HOOD TO HOUSING
ILWSH-#08	LOCK WASHER; #08, GR. 5, ZINC	4	PENDANT SOCKET CASE HOOD TO HOUSING
IHC02520050	HEX HEAD CAP SCREW; 1/4-20 X 1/2", GR. 5, ZINC	2	HORN BRACKET TO UPPER REAR COVER
ILWSH-025-STAR-SS	STAR WASHER; 1/4", EXTERNAL TOOTH, STAINLESS STEEL	4	HORN BRACKET TO UPPER REAR COVER
IFNUT02520	LOCK NUT; 1/4-20, GR. 5, ZINC, FLANGE	2	HORN BRACKET TO UPPER REAR COVER
IHW03118075-F	HEX WASHER HEAD SCREW; 5/16-18 X 3/4", SELF-TAPPING	1	UPPER REAR COVER TO HOUSING
IHC03816125	HEX HEAD CAP SCREW; 3/8-16 X 1 1/4", GR. 5, ZINC	4	WELDED TO HOUSING (FOR HYDRAULIC P.U.)
ILWSH-038-STAR-SS	STAR WASHER; 3/8", EXTERNAL TOOTH, STAINLESS STEEL	4	HYDRAULIC POWER UNIT TO HOUSING
IWSH-038	FLAT WASHER; 3/8", GR. 5, ZINC	4	HYDRAULIC POWER UNIT TO HOUSING
ILNUT-03816	LOCK NUT; 3/8-16, GR. 5, ZINC, NYLON INSERT	4	HYDRAULIC POWER UNIT TO HOUSING
IHW02520063-F	HEX WASHER HEAD SCREW; 1/4-20 X 5/8", SELF-TAPPING	3	LOWER REAR COVER TO HOUSING
IHW02520063-F	HEX WASHER HEAD SCREW; 1/4-20 X 5/8", SELF-TAPPING	2	ELECTRICAL PANEL COVER TO HOUSING
25019	PLASTIC PLUG; 7/8" HOLE, HEYCO #3044	1	TOP OF ELECTRICAL PANEL
IHNUT-02520	HEX NUT; 1/4-20, GR. 5, ZINC	2	SPACER FOR WINCH TERMINAL
ILWSH-025	LOCK WASHER; 1/4", GR. 5, ZINC	2	WINCH TERMINAL
IFNUT02520	LOCK NUT; 1/4-20, GR. 5, ZINC, FLANGE	2	WINCH TERMINAL

FOR REPLACEMENT PARTS - SEE DWG 28034



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
FASTENERS / HARDWARE

DATE
08-05-15C

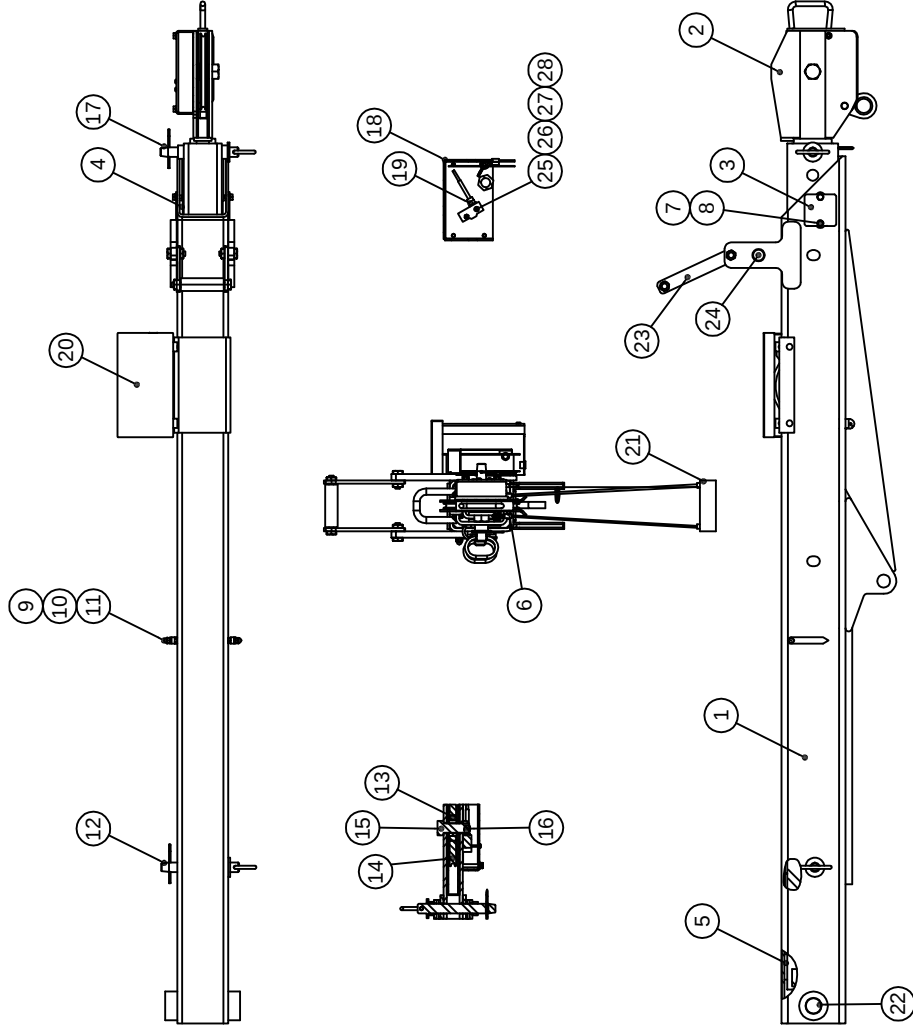
SECTION
C400

ET8/12K(X) MECH ASSEMBLY

SUPERSEDES
01-20-15B

28036

28022 BOOM PARTS DRAWING



NOTE: FOR ANTI-2-BLOCK PARTS, SEE 28040

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	28023	WELDED ASSY; PRIMARY BOOM
2	1	21728	SECONDARY & TERTIARY BOOM
3	2	21528	BEARING CAP
4	2	21209	BOOM BEARING; 2 x 1.5 x 0.44
5	1	21208	BOOM BEARING; 3 x 2 x 0.5
6	1	21538	BOOM BEARING; 2 x 1.5 x 0.5
7	4	!HHCS02520050	HEX HEAD CAP SCREW; 1/4-20 x 1/2
8	4	!LWSH-025	LOCK WASHER; 1/4
9	2	22490	SPACER; BOOM ARROW
10	2	13459-1	ARROW; 3.19" LONG
11	2	!ANUT-02520S	ACORN NUT; 1/4-20
12	1	23042-B-34-34	ASSY; PIN / LANYARD
13	1	20536	SPACER; 20537 SHEAVE
14	1	20537	POLY CABLE SHEAVE
15	1	17059-6	SHEAVE AXLE
16	1	!JNUT-07510N	JAM NUT; 3/4-10, NYLON INSERT
17	1	23042-B-14-14	ASSY; PIN / LANYARD
18	1	21291	ANIT-2-BLOCK HOUSING
19	1	19376	SWITCH; ANTI-2-BLOCK
20	1	22683	ASSY; CORD REEL, LEFT
21	1	19377-1	ASSY; WEIGHT, ANTI-2-BLOCK
22	2	21785	FIBER BEARING; PRIMARY BOOM
23	1	27090	ASSY; WIRE ROPE GUIDE
24	4	28019	PLUG; 11/16 HOLE
25	2	!FWSH-#06	FLAT WASHER; #06
26	2	!LWSH-#06	LOCK WASHER; #06
27	2	!HNUT-#0632	HEX NUT; #06-32
28	2	!PHMS#0632125	PAN HEAD MACHINE SCREW; #06-32 x 1.25



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
28022 BOOM PARTS DRAWING

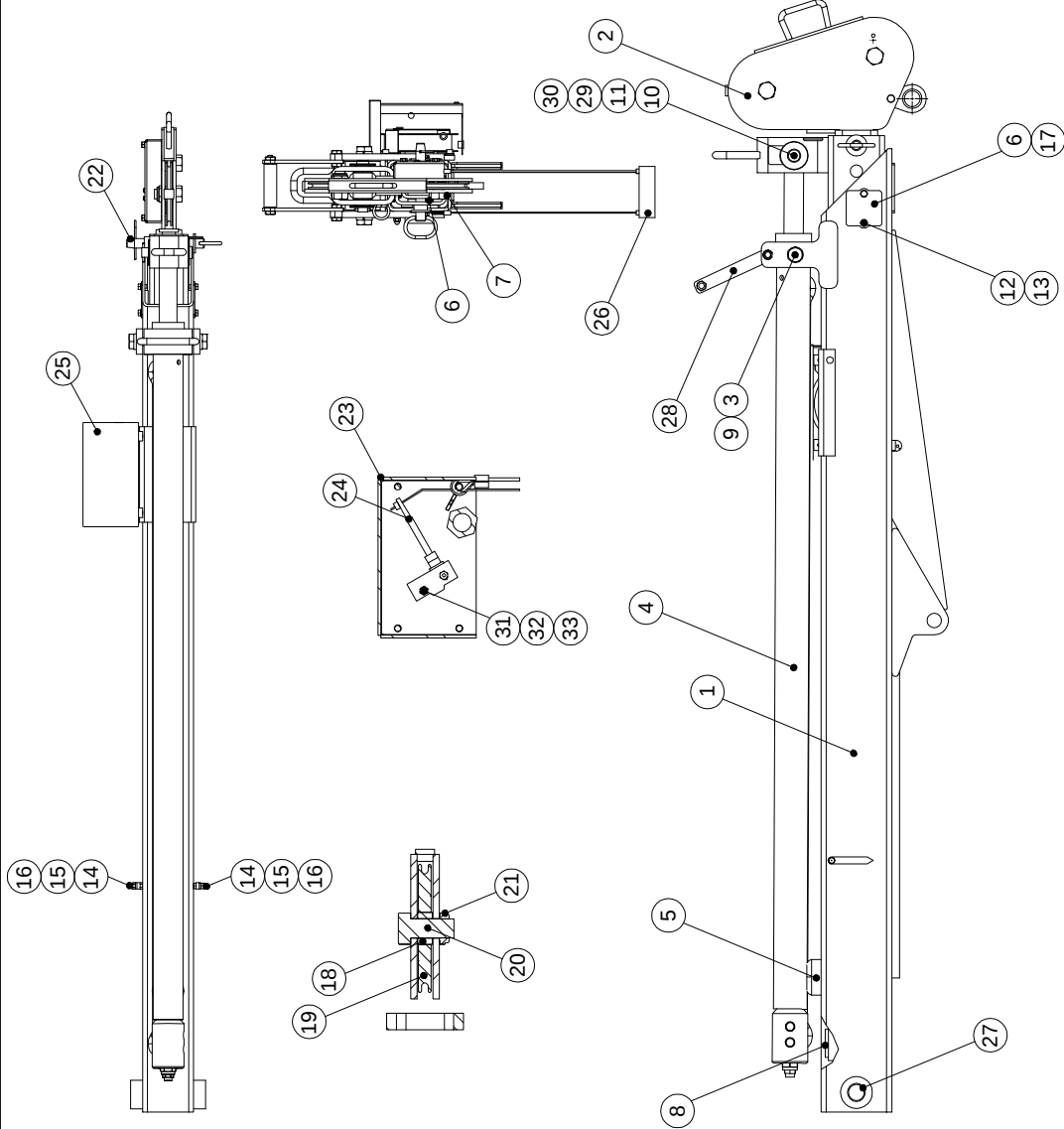
ET8K ▲

DATE
01-20-15B
SUPERSEDES
12-26-13A

SECTION
C400

21790

28022-1 BOOM PARTS DRAWING



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	28023	WELDED ASSY; PRIMARY BOOM
2	1	28011	SECONDARY & TERTIARY BOOM
3	2	!HNUT-07516	HEX NUT; 3/4-16
4	1	21754	EXTENSION CYLINDER
5	1	20285	BUMPER BOOM
6	2	21209	BOOM BEARING; 2 x 1.5 x 0.44
7	1	21208	BOOM BEARING; 3 x 2 x 0.5
8	1	21538	BOOM BEARING; 2 x 1.5 x 0.5
9	2	17487	PIVOT BOLT; ADJ. (EXTENSION CYL.)
10	1	13401-2A	CYL. PIVOT PIN; 3/4 x 3 3/4
11	1	!RPIN-016150	ROLL PIN; 5/32 x 1 1/2
12	4	!HHCS02520050	HEX HEAD CAP SCREW; 1/4-20 x 1/2
13	4	!LWSH-025	LOCK WASHER; 1/4
14	2	22490	SPACER; BOOM ARROW
15	2	13459-1	ARROW; 3.19" LONG
16	2	!ANUT-02520S	ACORN NUT; 1/4-20
17	2	21528	BEARING CAP
18	2	20536	SPACER; 20537 SHEAVE
19	2	21630	POLY CABLE SHEAVE W/ BUSHING
20	2	17059-4	SHEAVE AXLE
21	2	!INUT-07510N	JAM NUT; 3/4-10, NYLON INSERT
22	1	23042-B-14-14	ASSY; PIN / LANYARD
23	1	21291	ANIT-2-BLOCK HOUSING
24	1	19376	SWITCH; ANTI-2-BLOCK
25	1	22683	ASSY; CORD REEL, LEFT
26	1	19377-1	ASSY; WEIGHT, ANTI-2-BLOCK
27	2	21785	COMPOSITE BEARING; PRIMARY BOOM
28	1	27090	ASSY; WIRE ROPE GUIDE
29	2	21734	BEARING (UHMW); EXTENSION PIN
30	2	!FWSH-075	FLAT WASHER; 3/4"
31	2	!LWSH-#06	LOCK WASHER; #06
32	2	!HNUT-#0632	HEX NUT; #06-32
33	2	!PHMS#0632125	PAN HEAD MACHINE SCREW; #06-32 x 1.25

NOTE: FOR ANIT-2-BLOCK PARTS, SEE 28040



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE

28022-1 BOOM PARTS DRAWING

DATE

12-26-13B

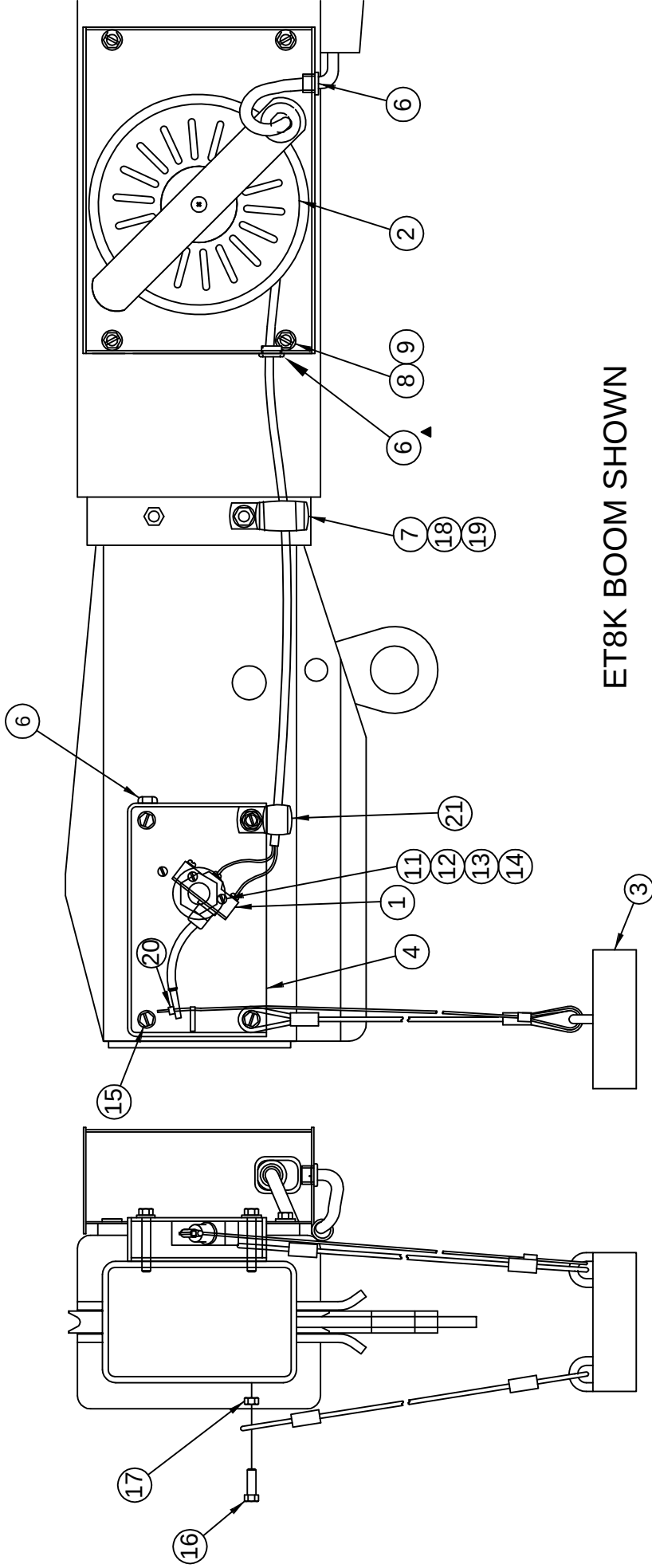
SECTION

C400

SUPERSEDES

01-24-13A

21791



ET8K BOOM SHOWN

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
21	1	19269	CABLE CLAMP; SMALL	10	1	-	-
20	1	19302	SET COLLAR; 3/32"	9	4	ILWSH-031	LOCK WASHER; 5/16"
19	1	ILWSH-025	LOCK WASHER; 1/4"	8	4	ISHCS03118050-5	SOCKET HEAD CAP SCREW; 5/16-18 x 1/2"
18	1	IANUT-02520	ACORN NUT; 1/4-20	7	1	19275	CABLE CLAMP; LARGE
17	1	IHNUT-02520	HEX NUT; 1/4-20	6	3	19270	SNAP BUSHING; 9/16" I.D.
16	1	IHHCS02520075-5	HEX HEAD CAP SCREW; 1/4-20 x 3/4" GR. 5	5	-	-	-
15	4	IHHCS02520175	HEX HEAD CAP SCREW; 1/4-20 x 1 3/4"	4	1	21291	ANTI TWO-BLOCK HOUSING
14	2	ILWSH-#06	LOCK WASHER; #6	3	1	19377-1	ASSY; WEIGHT, ANTI-2-BLOCK
13	2	IFWSH-#06	FLAT WASHER; #6	2	1	22683	ASSY; CORD REEL, LEFT
12	2	IHNUT-#0632	HEX NUT; #6-32	1	1	19376	SWITCH; ANTI-2-BLOCK
11	2	IPHMS#632125	PAN HEAD MACHINE SCREW; #6-32 x 1 1/4"				
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

REPLACEMENT PARTS DRAWING

A2B SYSTEM (ET8/12K(X) GEN. B) ▲

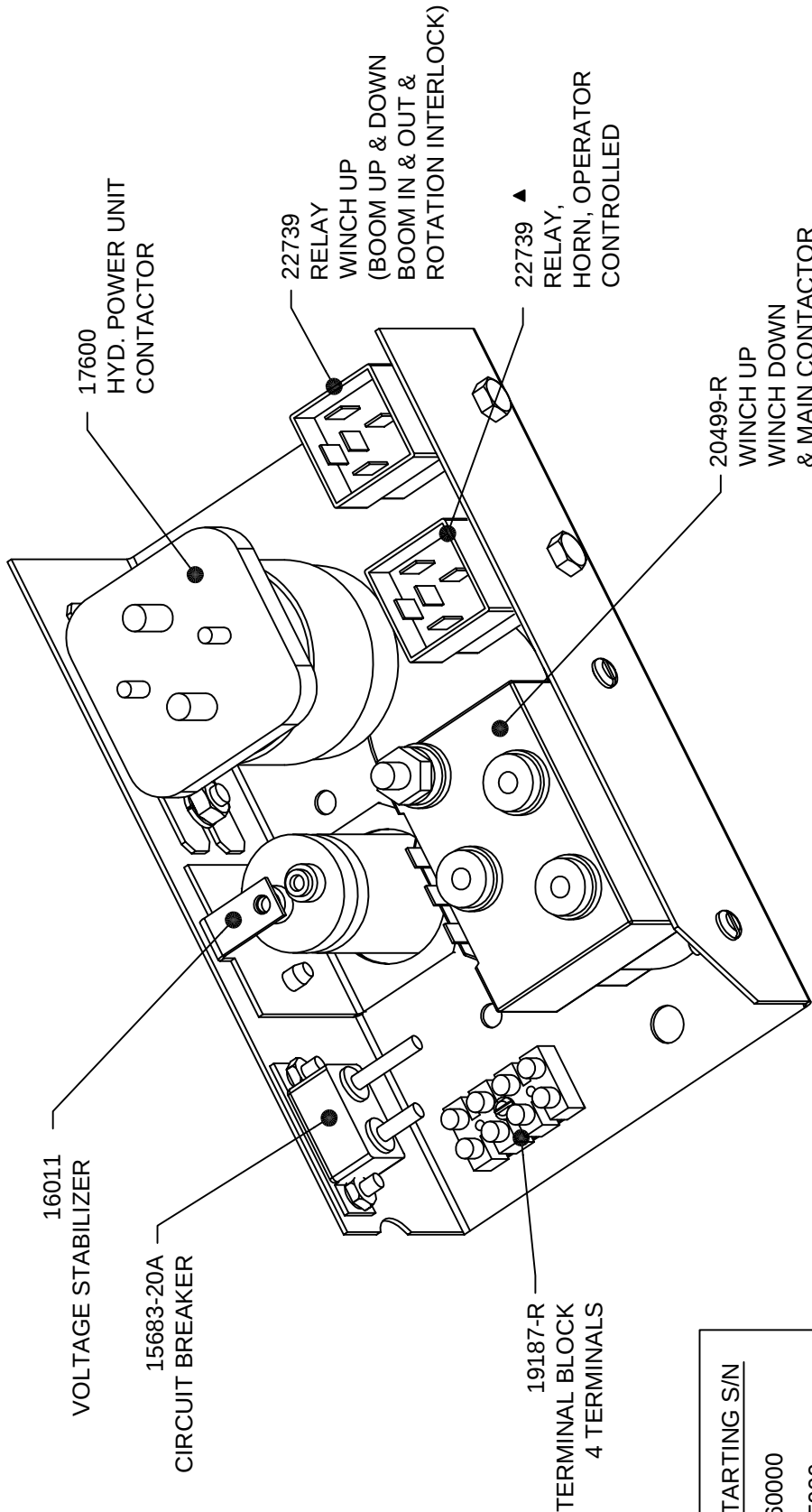
DATE
01-21-15B

SUPERSEDES
12-26-13A

SECTION
C400

28040

21515 ELECTRICAL COMPONENT ASSEMBLY



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

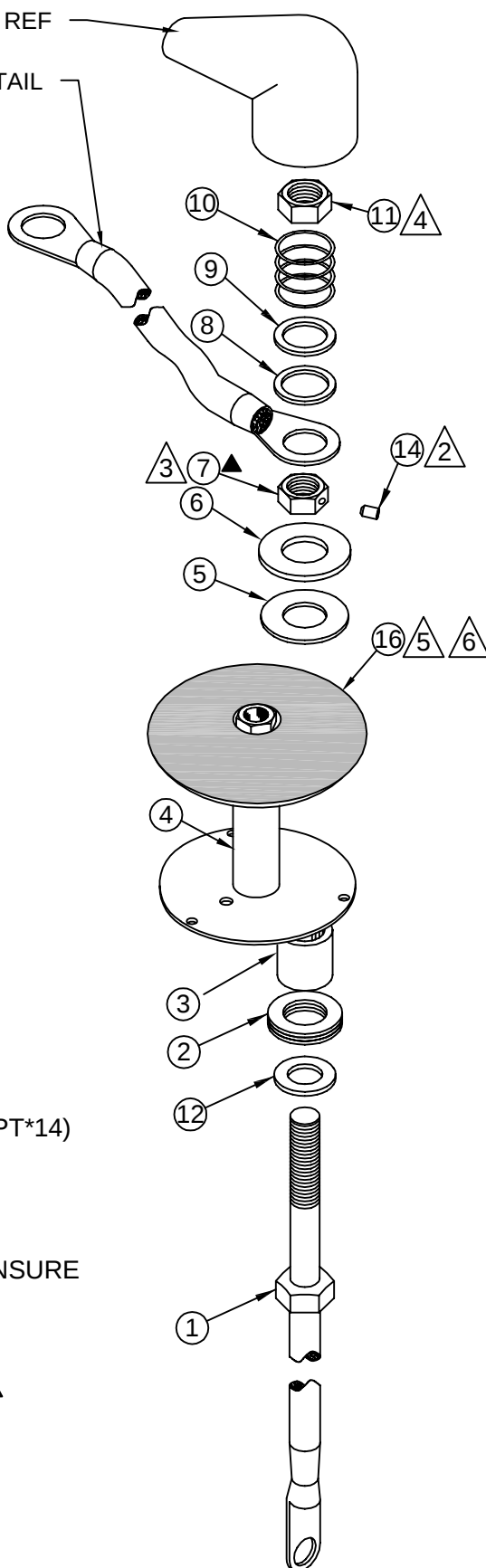
TITLE	DATE	SECTION
ELECTRICAL COMPONENT ASSEMBLY	02-10-15E	C400
ET6K, ET8/12K(X)	01-22-15D	21600

21584 SWIVEL TERMINAL ASSY

17011 RUBBER BOOT - REF

13448-XX SWIVEL PIGTAIL

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	15653-60	PIGTAIL & STUD ASSY
*2	3	16771-1	FIBER WASHER 1/2" I.D. X 15/16" O.D. X 1/16" THICK
*3	1	13410	INSULATING BUSHING
*4	1	21506	CANDLESTICK
*5	1	16771-2	FIBER WASHER 1/2" I.D. X 1-1/4" O.D. X 1/16" THICK
*6	1	16770*7	BRASS WASHER 1/2" I.D. X 1-1/4" O.D. X 5/64" THICK
*7	1	19800	BRASS JAM NUT 1/2-13NC MODIFIED
*8	1	16770*11	TEFLON WASHER 1/2" I.D. X 11/16" O.D. X 1/32" THICK
*9	1	16770*10	BRASS WASHER 1/2" I.D. X 11/16" O.D. X 1/32" THICK
*10	1	LC-063HJ-1	SPRING .66" O.D. X .63" W X 5/8" FREE LENGTH
*11	1	!JNUT-05013N	NYLON INSERT JAM NUT 1/2-13
*12	1	12534-4	MACHINERY BUSHING 1/2" I.D. X 7/8" O.D. X 14 GA THICK
*13	1	LOCTITE-24205	LOCTITE CAPSULE GRADE 242 BLUE
*14	1	21029	SET SCREW, CONE PT 10-34 X 1/4" SS
*15	1	21584i	REPL PARTS DWG (THIS PAGE)
16	1	27156	SHIELD, WATER-SHED (1/8" THICK)



* ITEMS ARE ONLY AVAILABLE IN A 21585 SERVICE PARTS KIT

▲ 1 21585 REPLACES & IS INTERCHANGEABLE WITH 16772 (EXCEPT*14)

▲ 2 SECURE WITH LOCTITE 242 BLUE

▲ 3 TORQUE TO 30 FT-LBS, THEN TIGHTEN SET SCREW.

▲ 4 TIGHTEN UNTIL ONE THREAD IS VISIBLE ABOVE THE NUT & ENSURE THAT SPRING IS NOT FULLY COMPRESSED

▲ 5 FOR ET6K (ECBAAB-**) ONLY; NOT PART OF 21585 KIT

▲ 6 STRETCH RUBBER WATER-SHED DISC P/N 27156 AROUND ▲
'OUTSIDE' OF THE INVERTED FLARE NUT OF CANDLESTICK
AS SHOWN.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS

ET6K, ET8/12K(X)

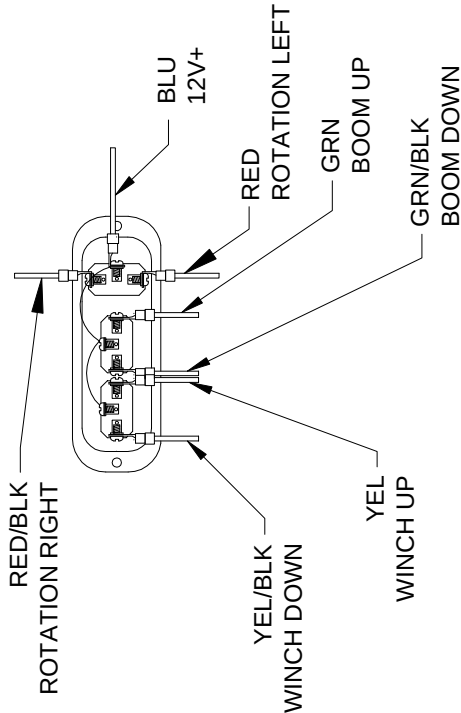
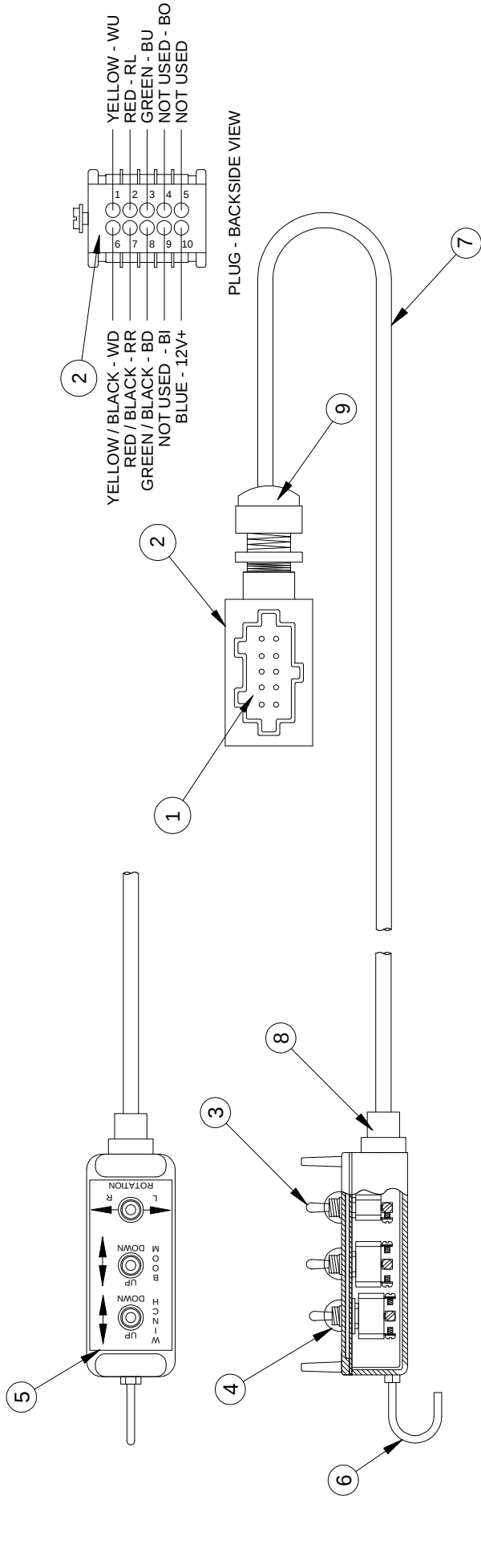
DATE
03-03-17F

SUPERSEDES
02-17-15E

SECTION
C400

21584i

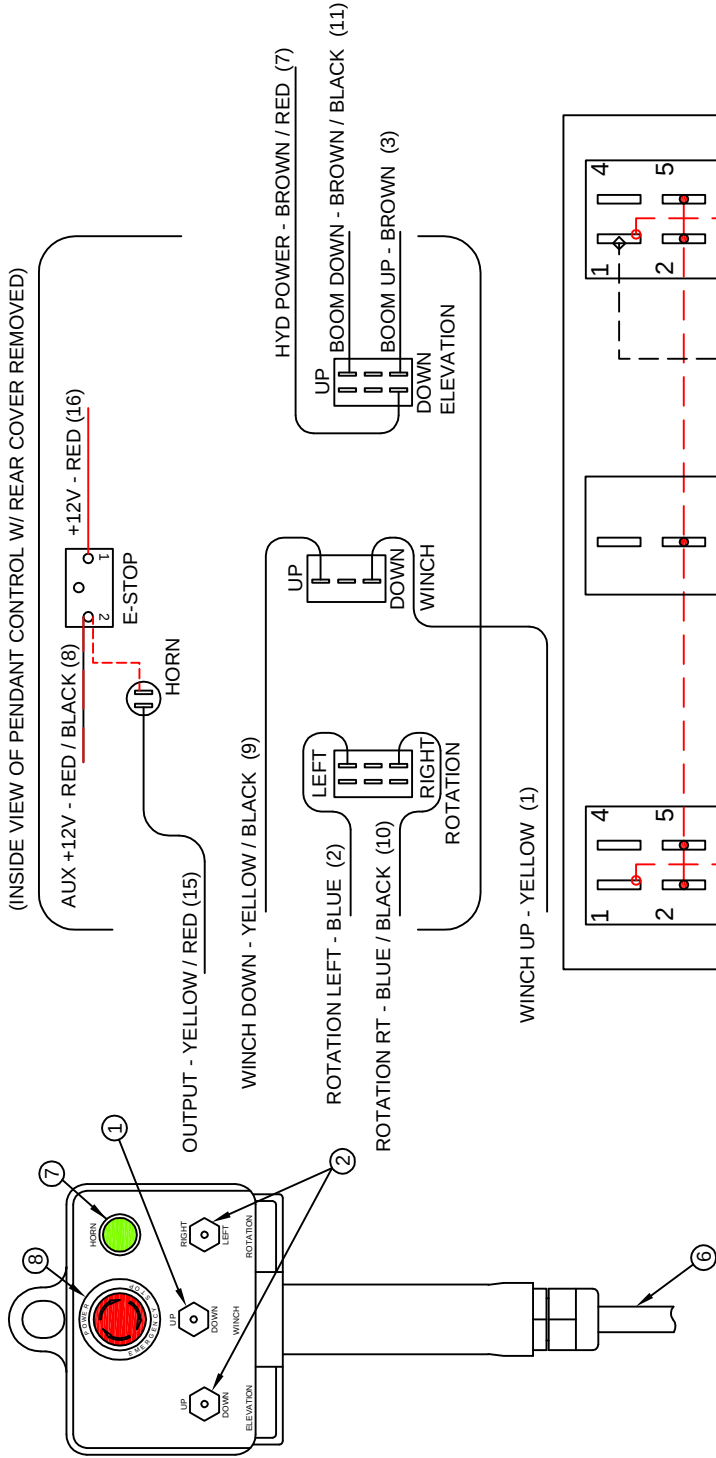
20910 3-SWITCH PENDANT



9	1	27093	CORD RESTRAINT - PLUG END
8	1	20165	GASKET / CORD RESTRAINT
7	1	17151-XX	CORD ASSY (XX = LENGTH IN FT)
6	1	11557	HOOK
5	1	25538	DECAL
4	3	19793	TOGGLE BOOT
3	3	13763	TOGGLE SWITCH
2	1	27094	PLUG CASE - 10+1 POLE
1	1	19427	MALE INSERT - 10+1 POLE
ITEM	QTY	PART NO.	DESCRIPTION

	TITLE		REPLACEMENT PARTS DRAWING		SECTION	
	MANUFACTURING, INC. CINCINNATI, OHIO		DATE	12-26-13A	C400	
	3 FUNCTION CRANES		SUPERSEDES	10-27-11		28038

21991 PENDANT; 3 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

ET8K

45000

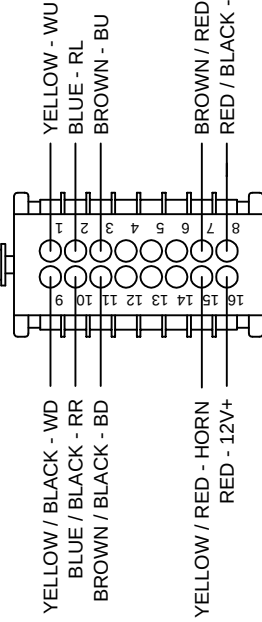
ET12K

61800

STARTING S/N

FIG. 1 - TYPICAL SWITCH JUMPER LAYOUT. CONTACT POINTS = $\diamond$ $\bullet$ $\circ$

BLACK - GROUND



16-PIN PLUG ASSY.

16-PIN PLUG - BACKSIDE VIEW

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	2	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

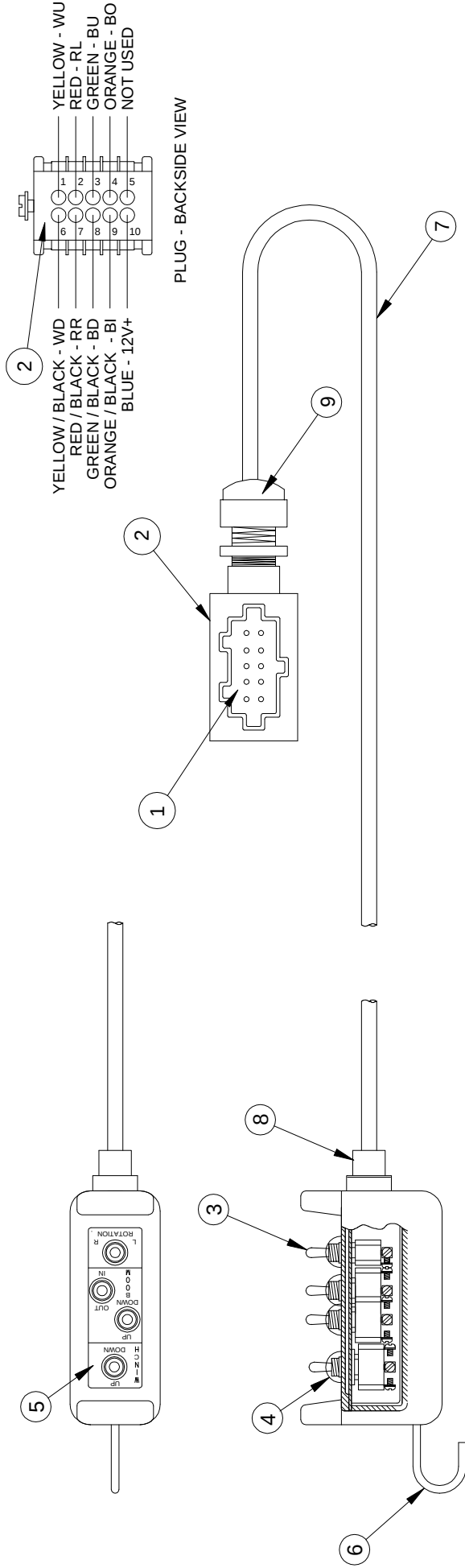
DATE
10-03-14

SECTION
C400

21991 PNDNT; 3 FNCTN ET CRNS, ESTP/HRN

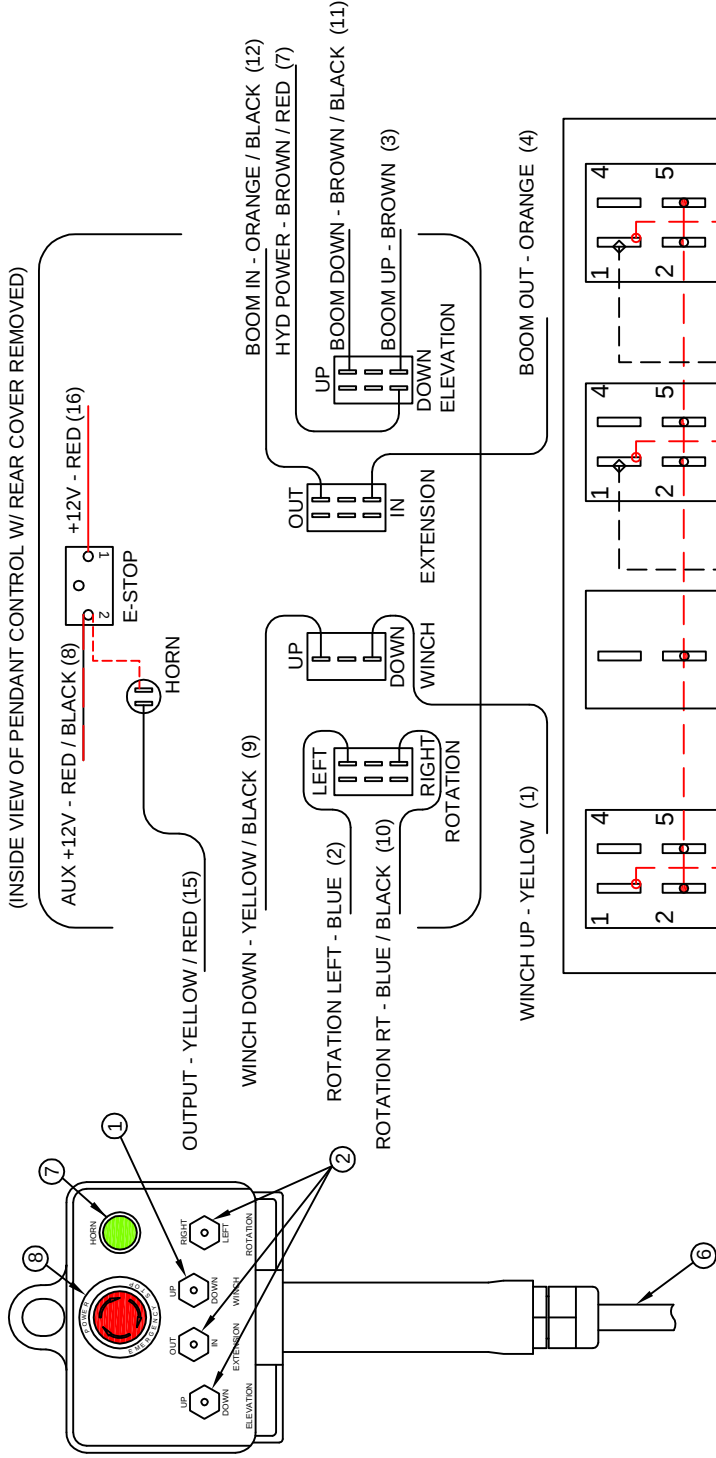
23076

20909 4-SWITCH PENDANT



9	1	27093	CORD RESTRAINT - PLUG END
8	1	20165	GASKET / CORD RESTRAINT
7	1	26262-XX	CORD ASSY (XX = LENGTH IN FT)
6	1	11557	HOOK
5	1	17363	DECAL
4	3	19793	TOGGLE BOOT
3	3	13763	TOGGLE SWITCH
2	1	27094	PLUG CASE - 10+1 POLE
1	1	19427	MALE INSERT - 10+1 POLE
ITEM	QTY	PART NO.	DESCRIPTION

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
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ET8KX	73800
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ET12KX	69800
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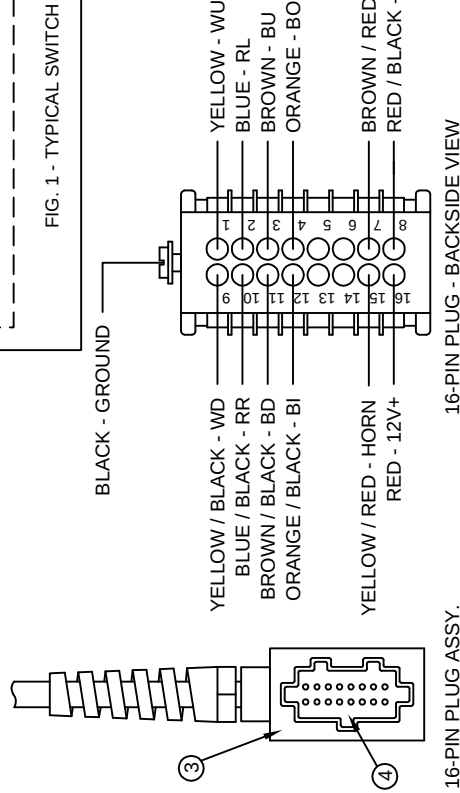
ET16KX	170000
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ET18KX	95900
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ET25KX	125300
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ET30KX	130300
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ET36KXX	140300
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8	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

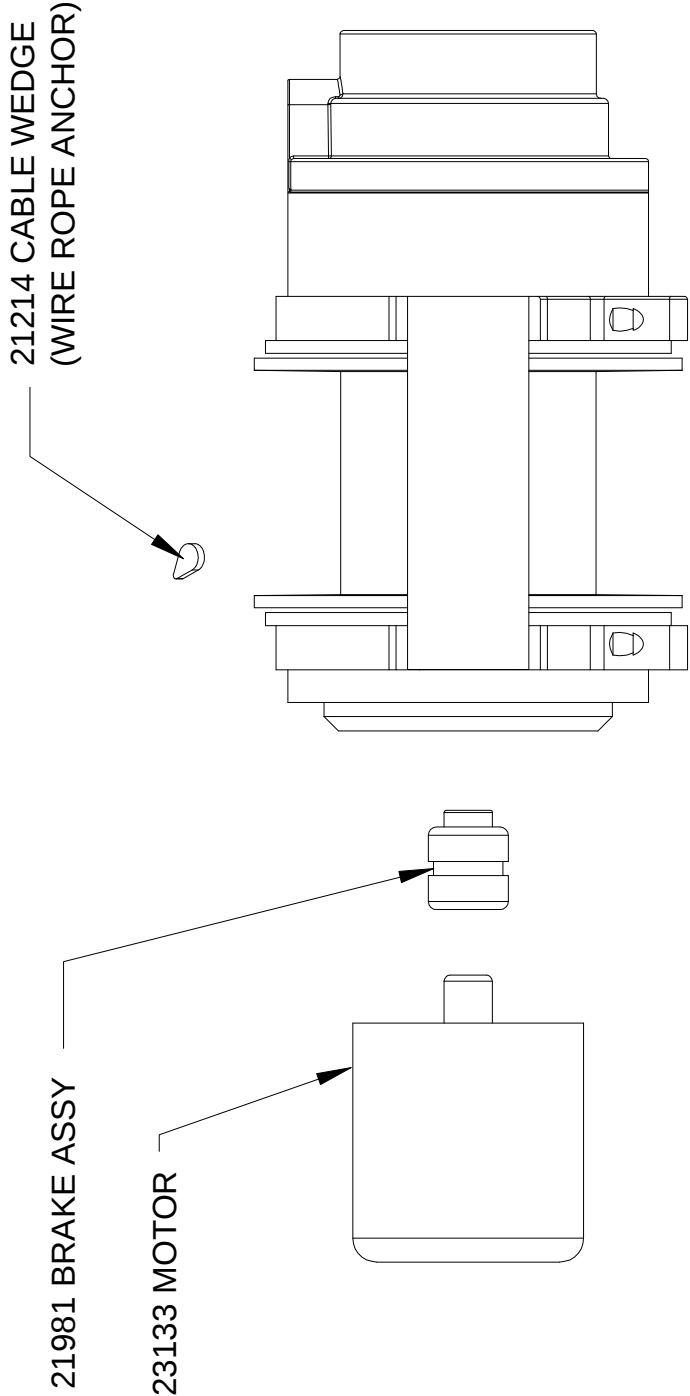
DATE
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SUPSEDES
10-20-14A

SECTION
C400

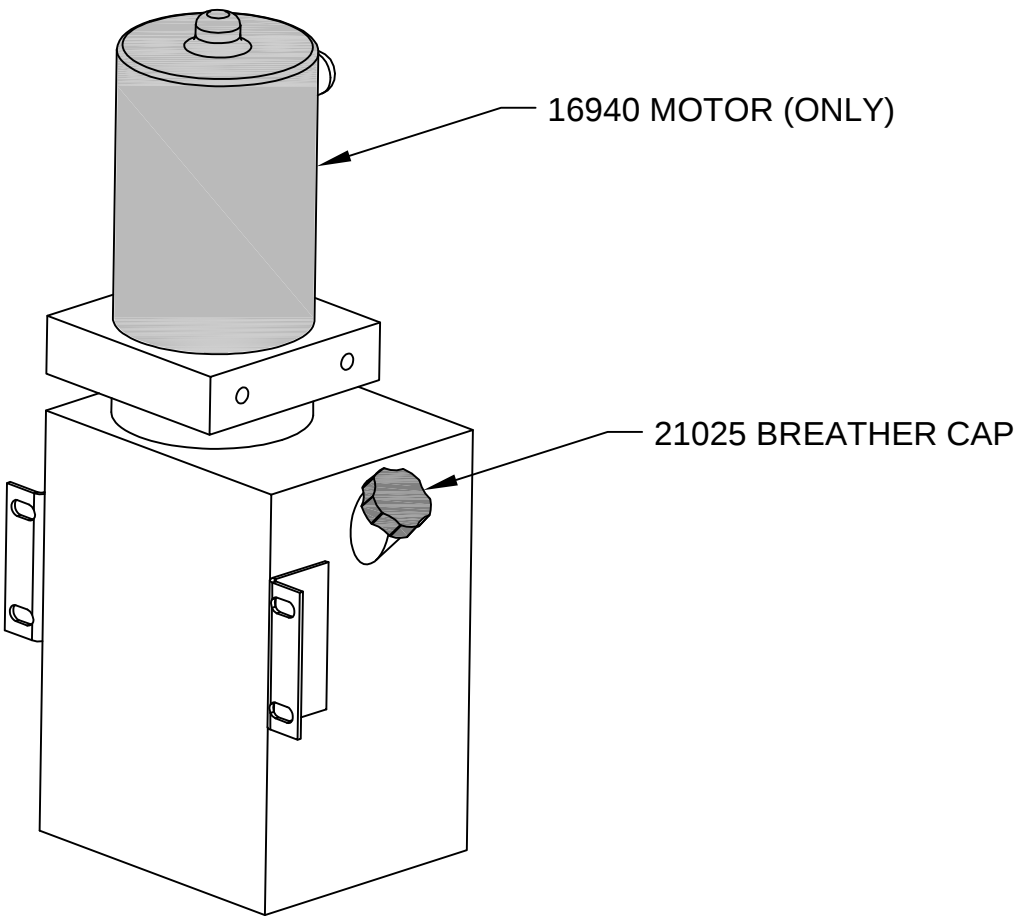
23075

21556 WINCH REPLACEMENT PARTS



 MANUFACTURING, INC. CINCINNATI, OHIO	TITLE WINCH REPLACEMENT PARTS (DC1600)		DATE 09-09-13B	SECTION C400
	ET8/12K(X)		SUPERSEDES 05-01-13A	21741

20873 HYDRAULIC POWER UNIT (H.P.U.)



NOTE:
HYDRAULIC POWER UNIT SETTINGS ARE AS FOLLOWS:

- ▲ ET8/12K(X) PRESSURE = 2600 PSI

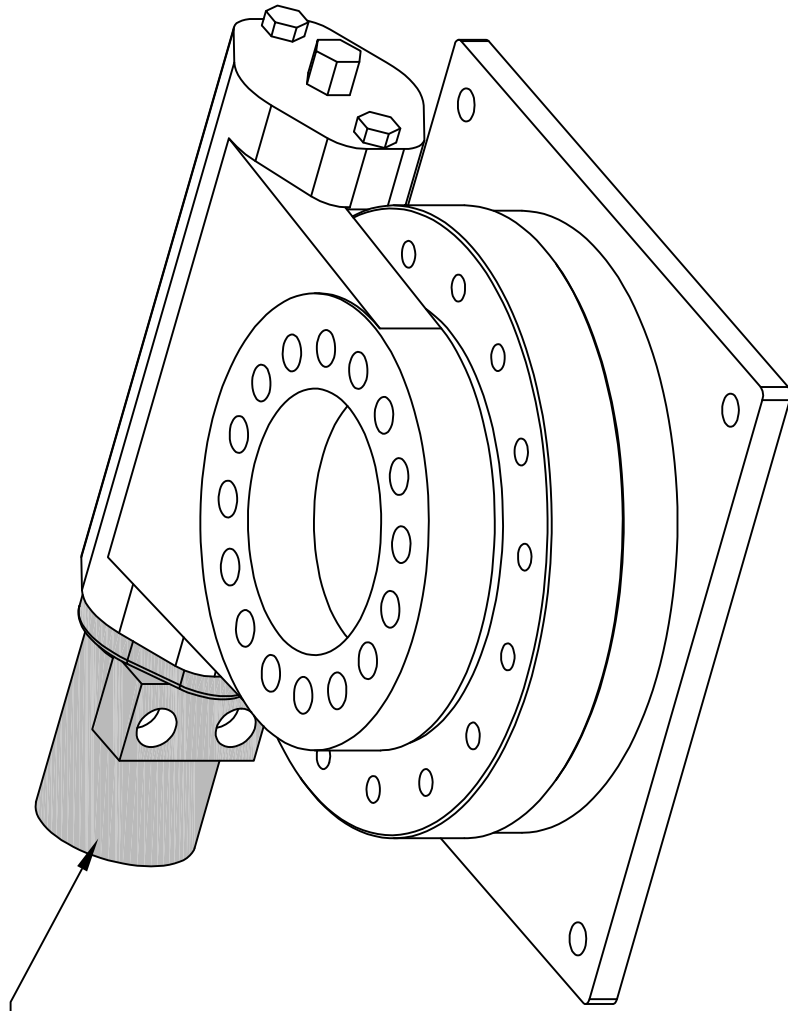


VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
H.P.U. RPLCMNT PARTS	01-26-15B	C400
ET8/12K(X) ▲	SUPERSEDES 12-27-13A	16942

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

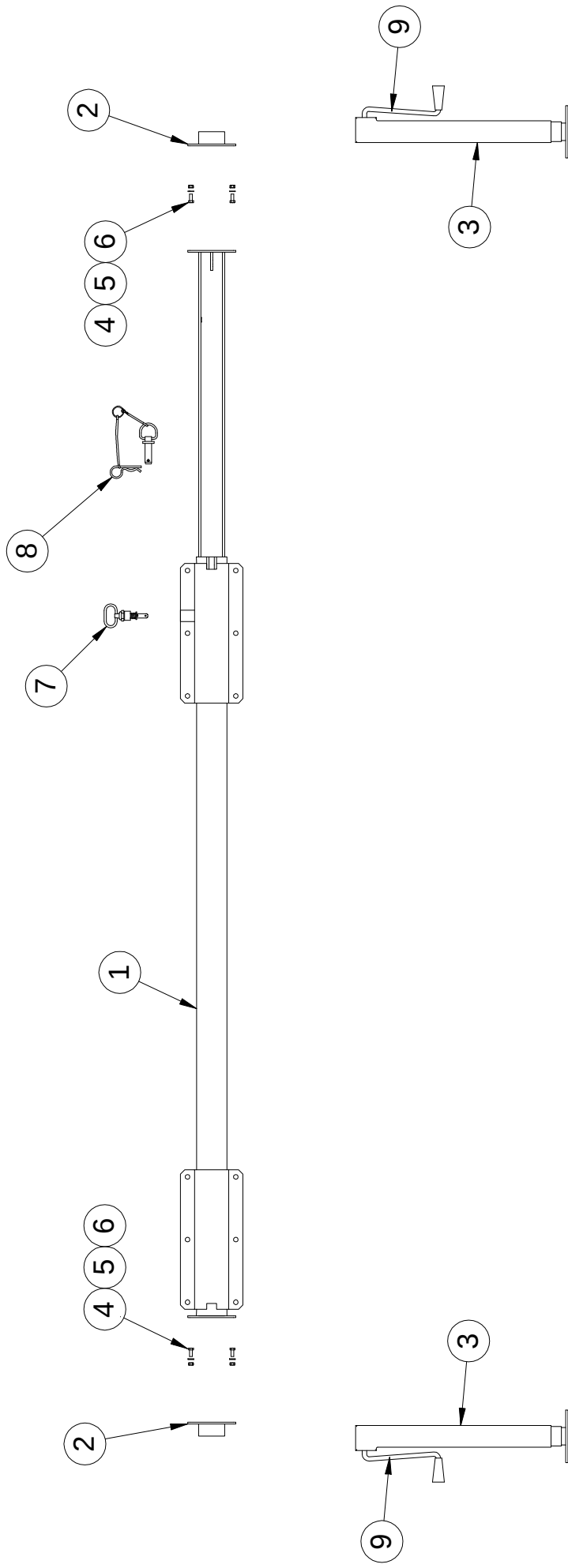
C400

SUPERSEDES

12-27-13A

ET8/12K & ET8/12/16/18KX ▲

21973



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



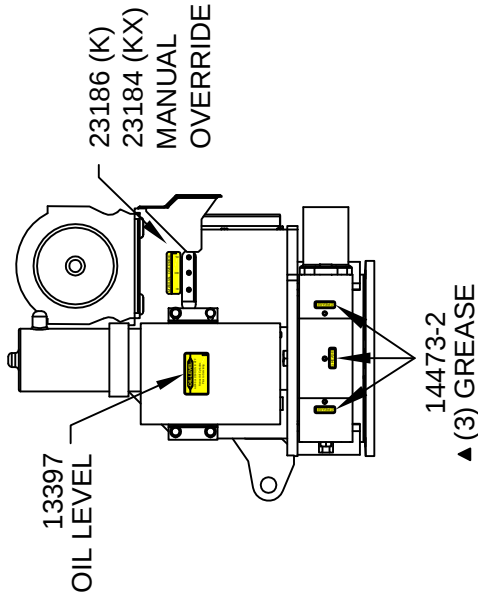
MANUFACTURING, INC.
CINCINNATI, OHIO

REPLACMENT PARTS DRAWING & LIST

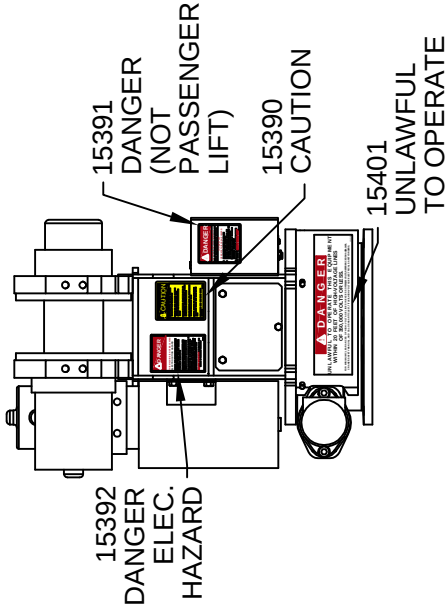
18500-CD MANUAL STABILIZERS

TITLE	DATE	SECTION
REPLACMENT PARTS DRAWING & LIST	12-27-13D	C400
18500-CD MANUAL STABILIZERS	SUPERSEDES 07-28-10C	22689

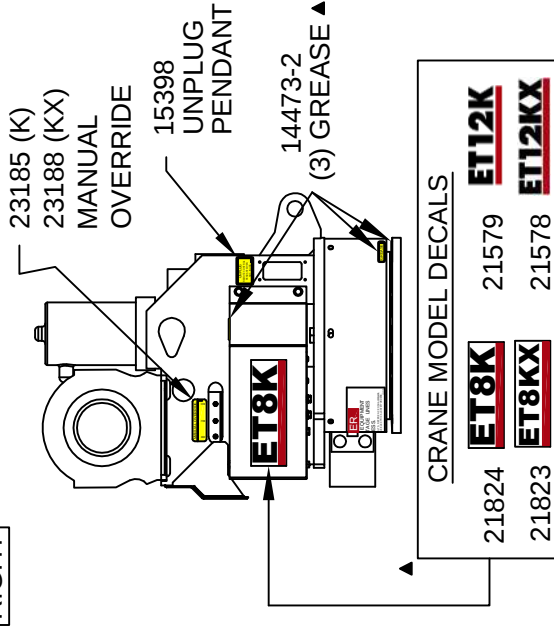
LEFT



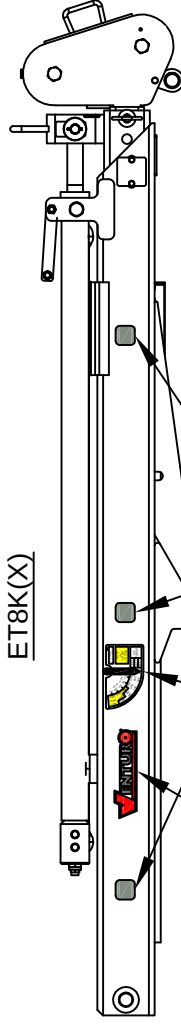
BACK



RIGHT



ET8K(X)



▲ 17389-4
SMALL
VENTURO

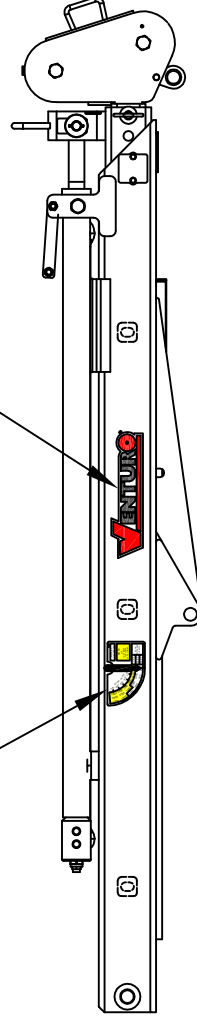
28024
(6) HOLE COVERS
(ET8KX ONLY)

CAPACITY		
DECAL	MODEL	PART NO.
RIGHT	ET8K(X)	21702
LEFT	ET8K(X)	21703

▲ ET12K(X)

▲ ET12K = 17389-4
SMALL VENTURO
ET12KX = 17389
MEDIUM VENTURO

CAPACITY		
DECAL	MODEL	PART NO.
RIGHT	ET12K(X)	21576
LEFT	ET12K(X)	21577



▲ BOOM



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

DECAL PLACEMENT

ET8/12K(X)

TITLE

DATE

SECTION

04-09-15E

SUPERSEDES

09-09-13D

21822

ET8K(X) FIELD SERVICE LABEL KITS

▲ 21832; FIELD SERVICE LABEL KIT, ET8KX

PART NO.	QTY.	DESCRIPTION
14473-2	6	DECAL, GREASE
17389-4	2	DECAL, VENTURO - SMALL
21702	1	DECAL, BOOM CAPACITY ET8K(X) RIGHT
21703	1	DECAL, BOOM CAPACITY ET8K(X) LEFT
21823	2	DECAL, MODEL NAME DECAL - ET8KX
13397	1	DECAL, OIL LEVEL
23188	1	MANUAL OVERRIDE - RIGHT
23184	1	MANUAL OVERRIDE - LEFT
28024	6	HOLE COVER - BOOM EXT
17813	1	DECAL; OVERLOAD SENSING SYSTEM
21833	1	FIELD SERVICE LABEL KIT LIST
21822	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL, VENTURO CRANES
15397	1	KIT; ACCIDENT PREVENTION SIGNS

▲ NOTE:

APPLICABLE SERIAL NUMBERS: 73450 - CURRENT

▲ 21839; FIELD SERVICE LABEL KIT, ET8K

PART NO.	QTY.	DESCRIPTION
14473-2	6	DECAL, GREASE
17389-4	2	DECAL, VENTURO - SMALL
21702	1	DECAL, BOOM CAPACITY ET8K(X) RIGHT
21703	1	DECAL, BOOM CAPACITY ET8K(X) LEFT
21824	2	DECAL, MODEL NAME DECAL - ET8K
13397	1	DECAL, OIL LEVEL
23185	1	MANUAL OVERRIDE - RIGHT
23186	1	MANUAL OVERRIDE - LEFT
17813	1	DECAL; OVERLOAD SENSING SYSTEM
21833	1	IDWG; FIELD SERVICE LABEL KIT LIST
21822	1	INST. DWG DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL, VENTURO CRANES
15397	1	KIT; ACCIDENT PREVENTION SIGNS

▲ NOTE:

APPLICABLE SERIAL NUMBERS: 44500 - CURRENT

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, COMPLEMENTARY
20927	1	DECAL; CRANE STABILITY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE ▲

FIELD SERVICE LABEL KIT

ET8K(X)

DATE

04-16-15F

SUPERSEDES

09-09-13E

SECTION

C400

21833



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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