



VENTURO
TRUCK MOUNTED CRANES

ET12K(X)

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

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Venco Venturo Industries LLC
Cincinnati, Ohio

TITLE
TABLE OF CONTENTS
ET12K(X) EG* AAB-**

DATE
02-10-17H
SUPERSEDES
08-04-15G

SECTION
-
28032

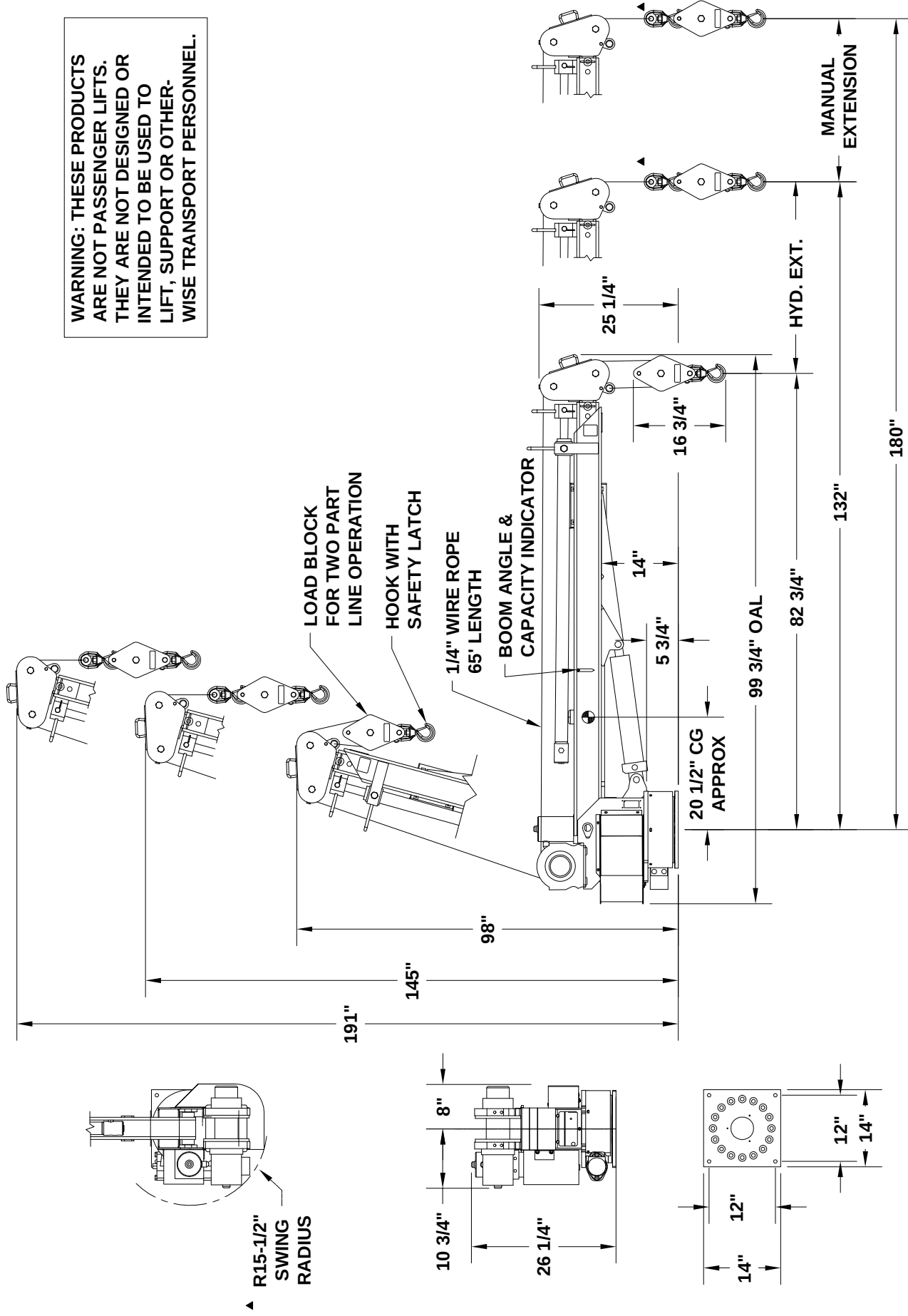
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DESCRIPTION

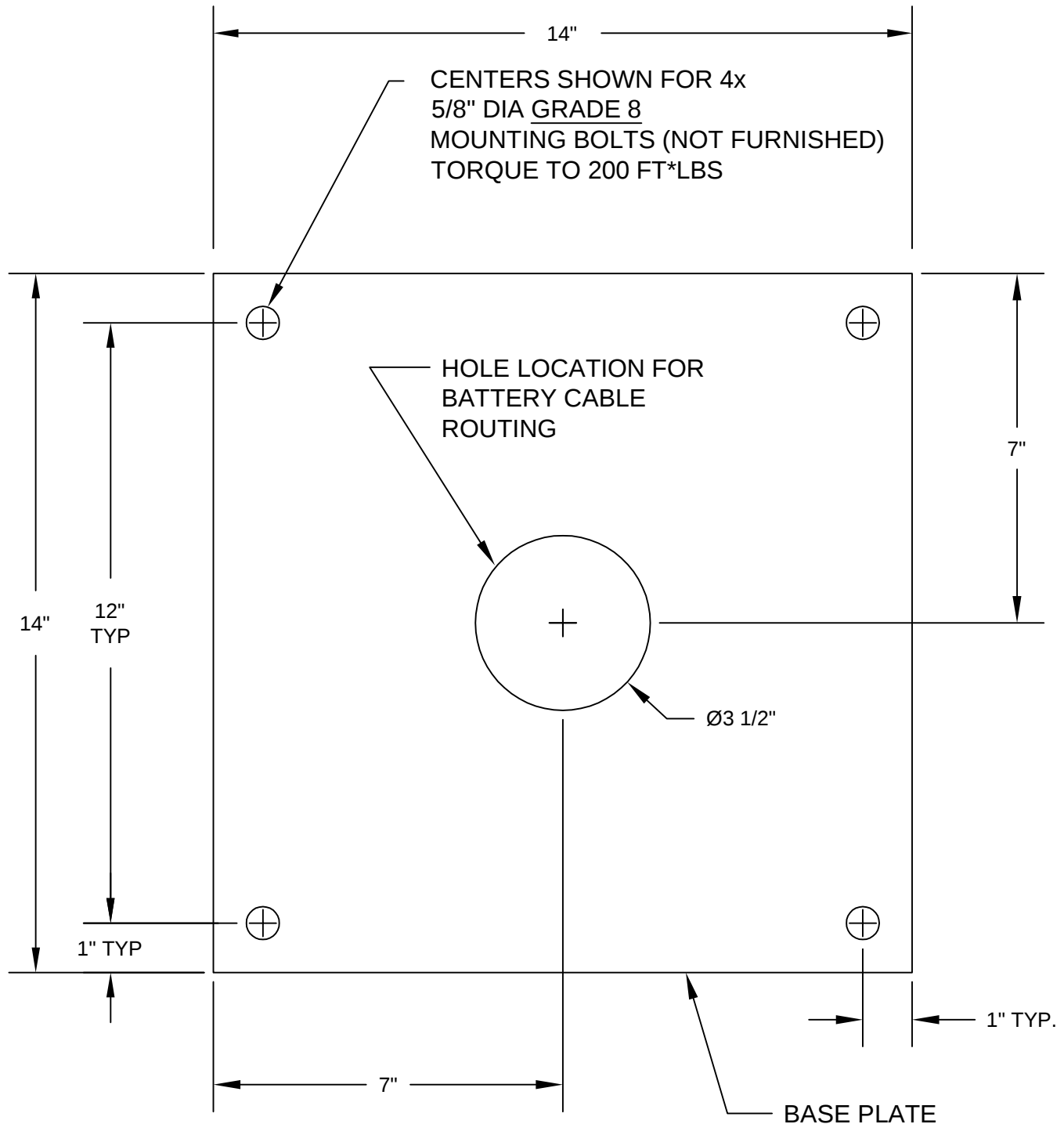
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SPECIFICATIONS

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



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

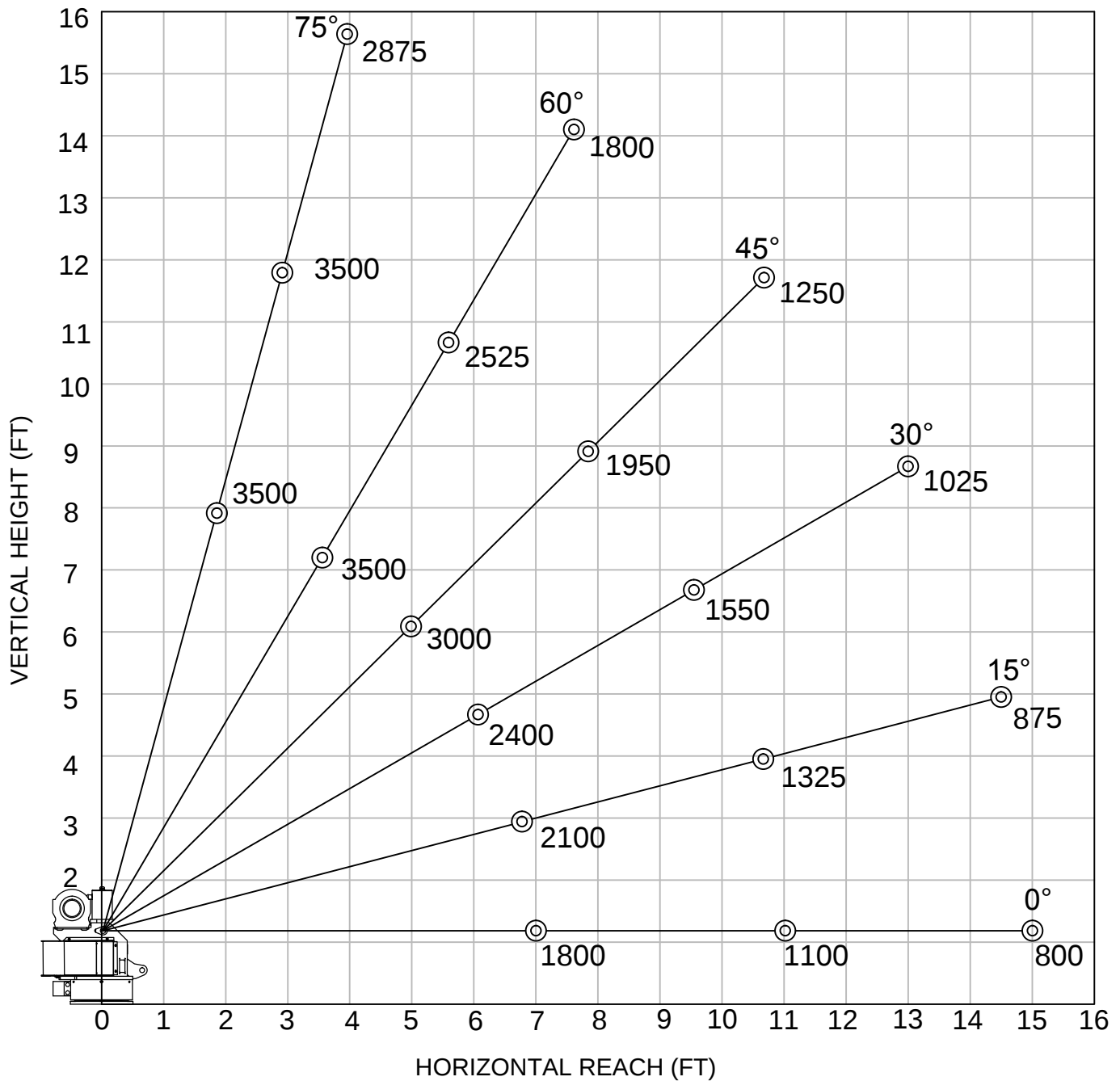
ET8/12/16/18 CRANES

21592

ET12K(X), 7'-11'-15' 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 1750 LBS

2 PART LINE FOR LOADS OF 1750 LBS AND GREATER

WEIGHT OF LOAD BLOCK = 24 LBS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAXIMUM LOAD CAPACITY

ET12K(X), 7'-11'-15' BOOM

DATE
05-03-16C

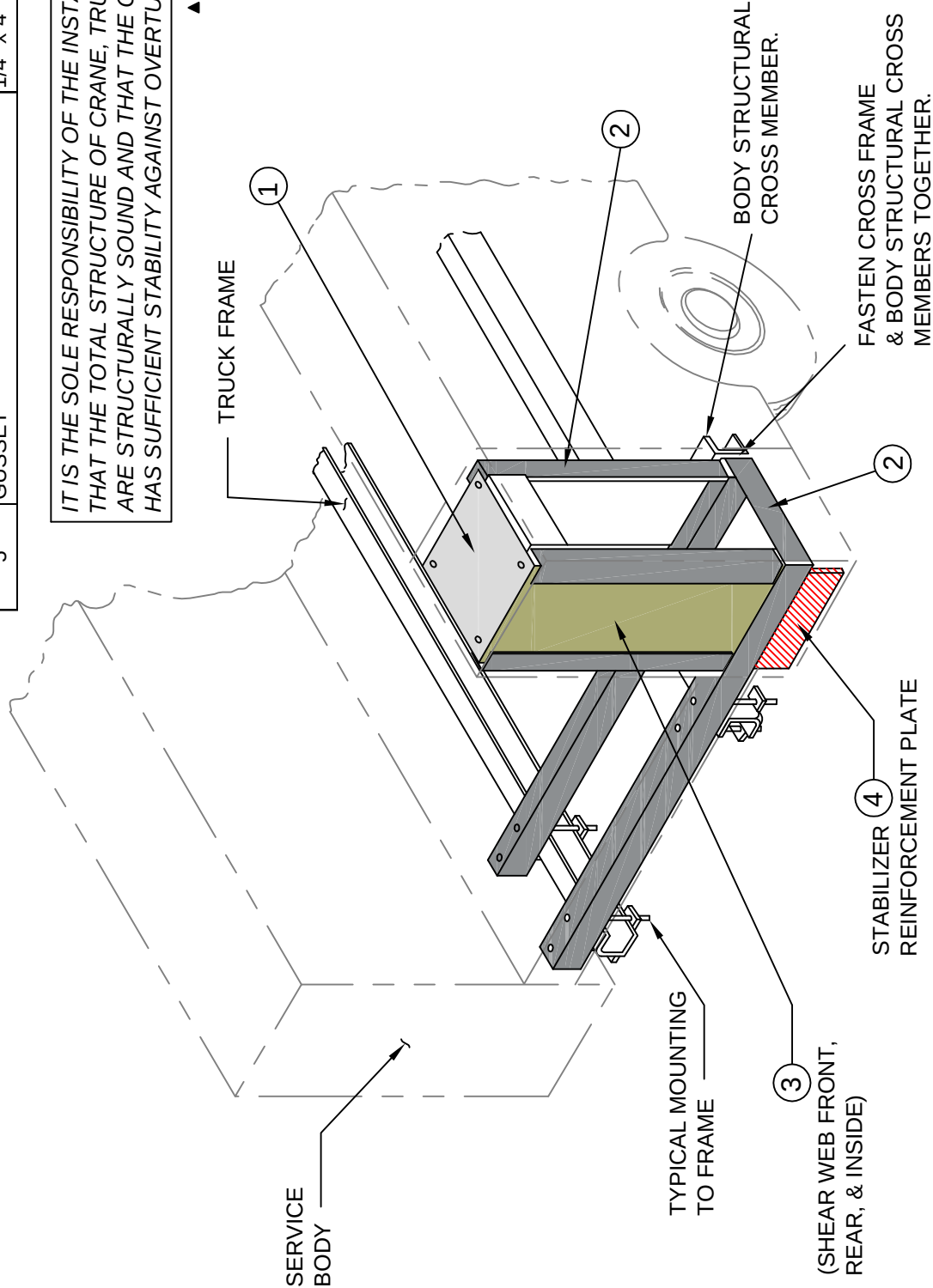
SUPERSEDES
04-29-13B

SECTION
C100

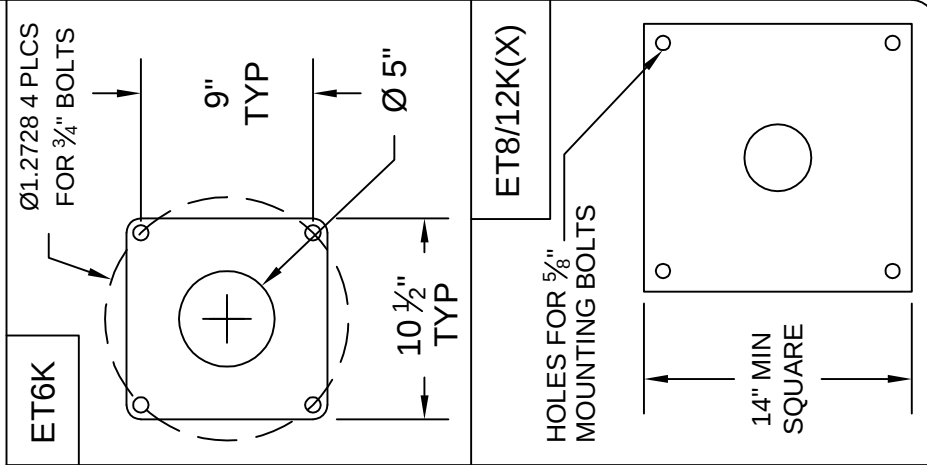
21575

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)

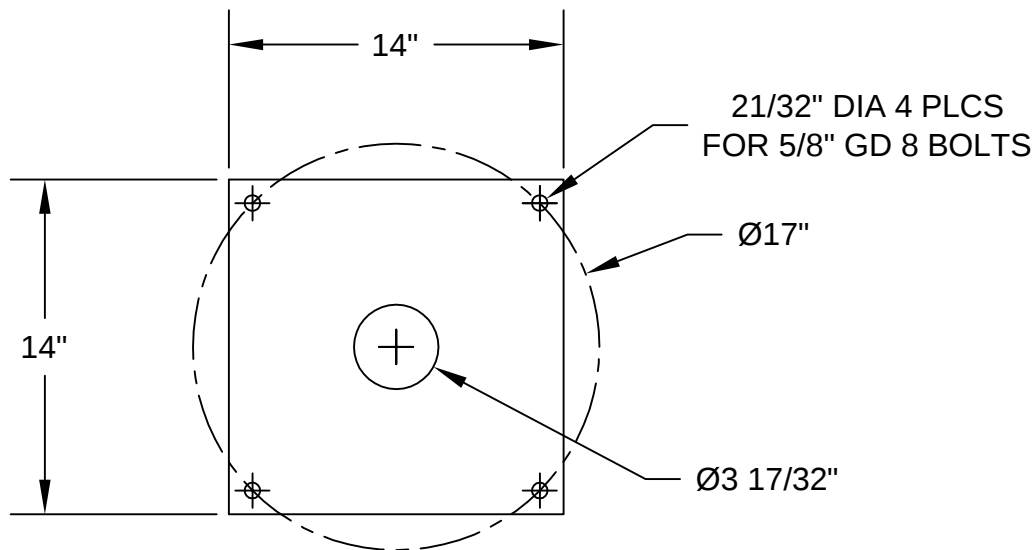
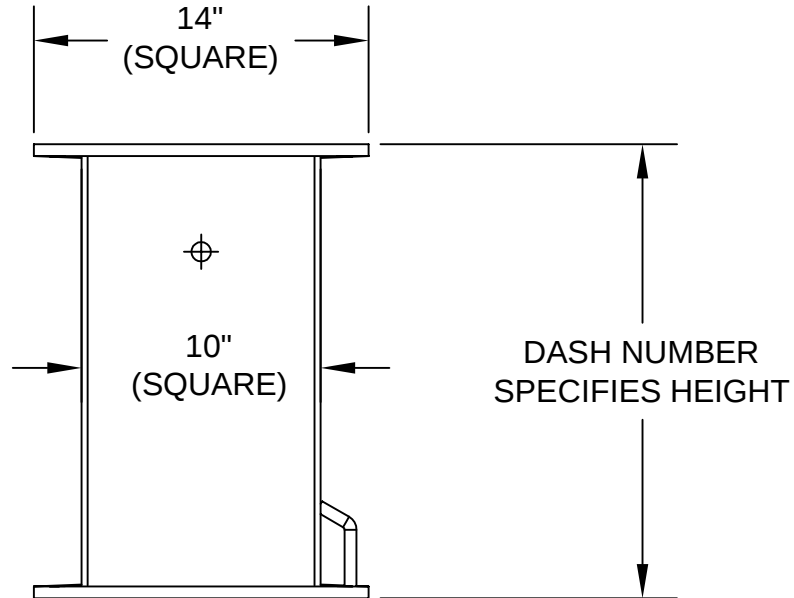
IT IS THE SOLE RESPONSIBILITY OF THE INSTALLER TO INSURE THAT THE TOTAL STRUCTURE OF CRANE, TRUCK, AND STABILIZERS ARE STRUCTURALLY SOUND AND THAT THE COMPLETED VEHICLE HAS SUFFICIENT STABILITY AGAINST OVERTURNING.



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

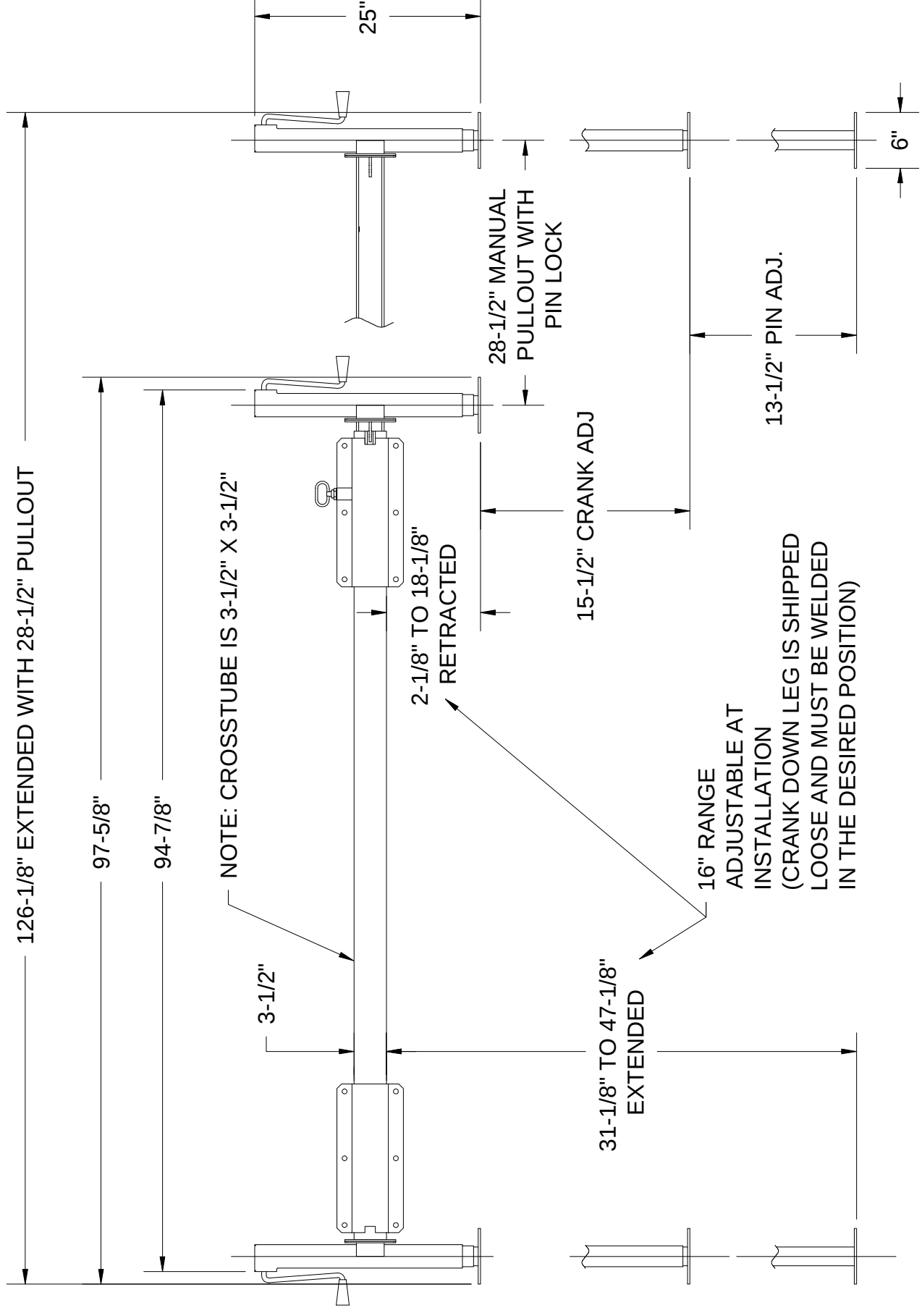
SUPERSEDES

12-20-13B

SECTION

C100

21594

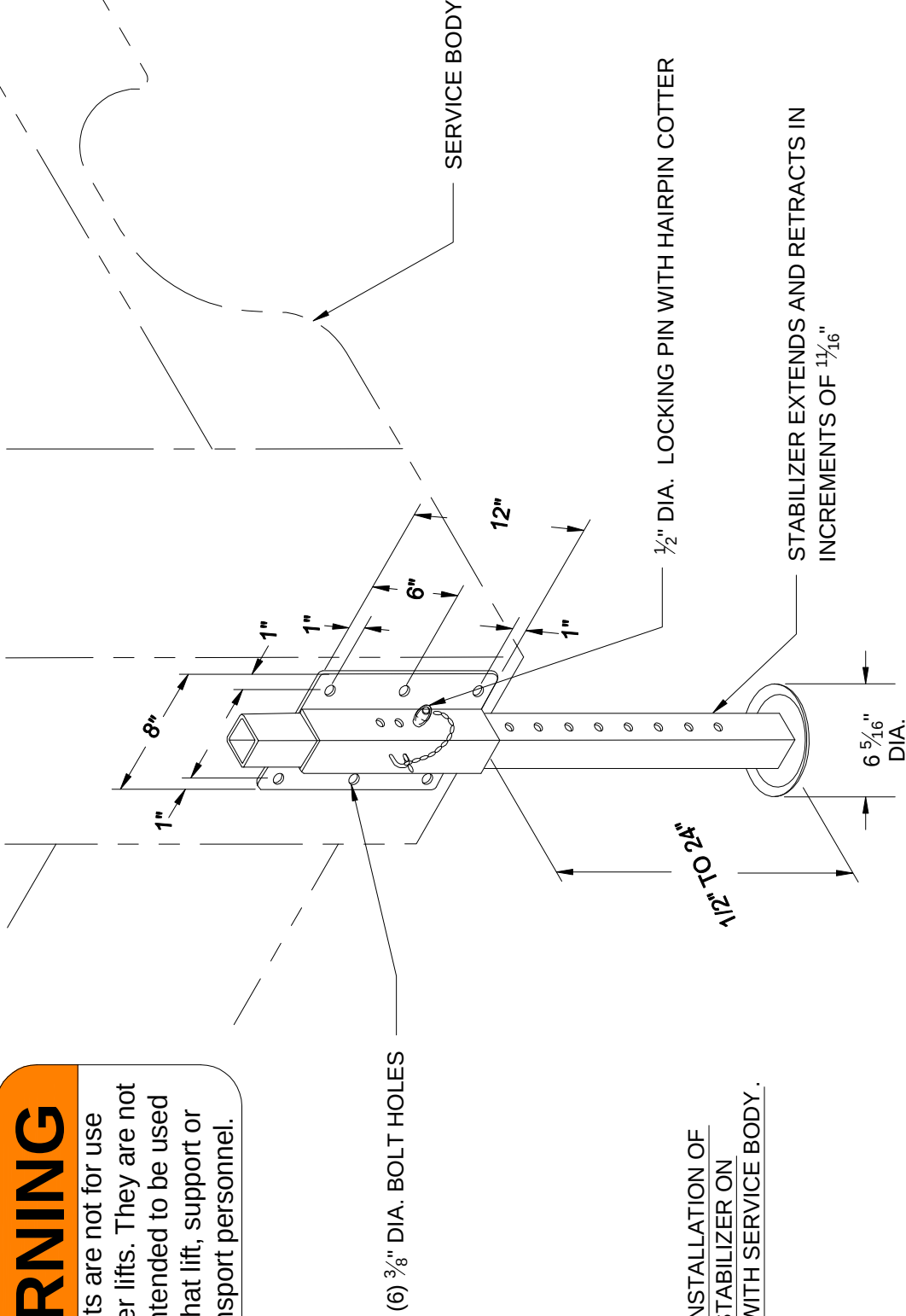


	TITLE		SECTION	
	INSTALLATION DRAWING		C100	
	18500-CD STABILIZER		22686	
MANUFACTURING, INC. CINCINNATI, OHIO	DATE		12-20-13B	
	SUPERSEDES		01-13-05A	

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.



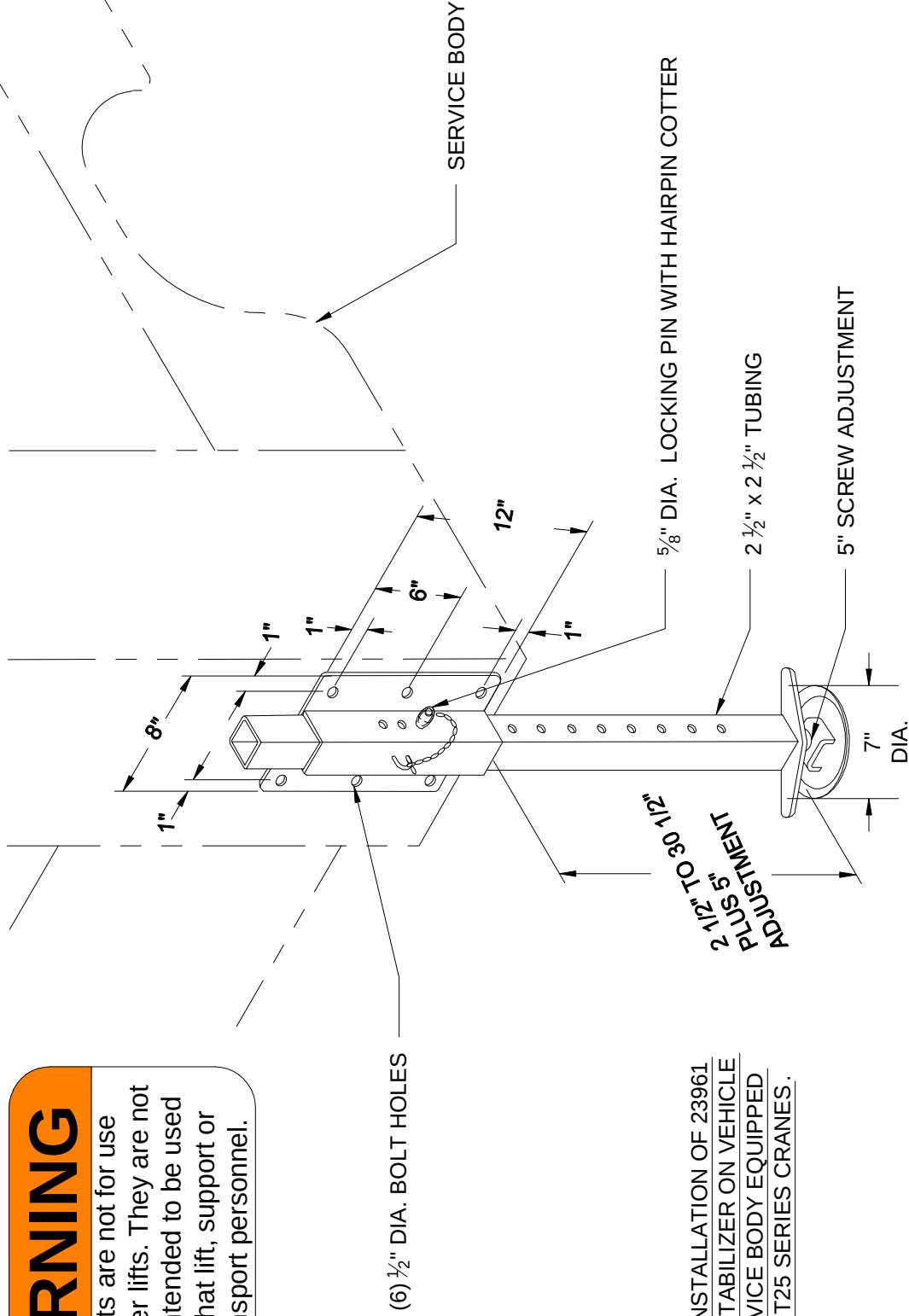
TYPICAL INSTALLATION OF
MANUAL STABILIZER ON
VEHICLE WITH SERVICE BODY.

	MANUFACTURING, INC. CINCINNATI, OHIO	TITLE INSTALLATION DRAWING		DATE 12-20-13F	SECTION C100
		ET6/8/12K(X)		SUPERSEDES 10-02-12E	13509

23961 STABILIZER

! WARNING

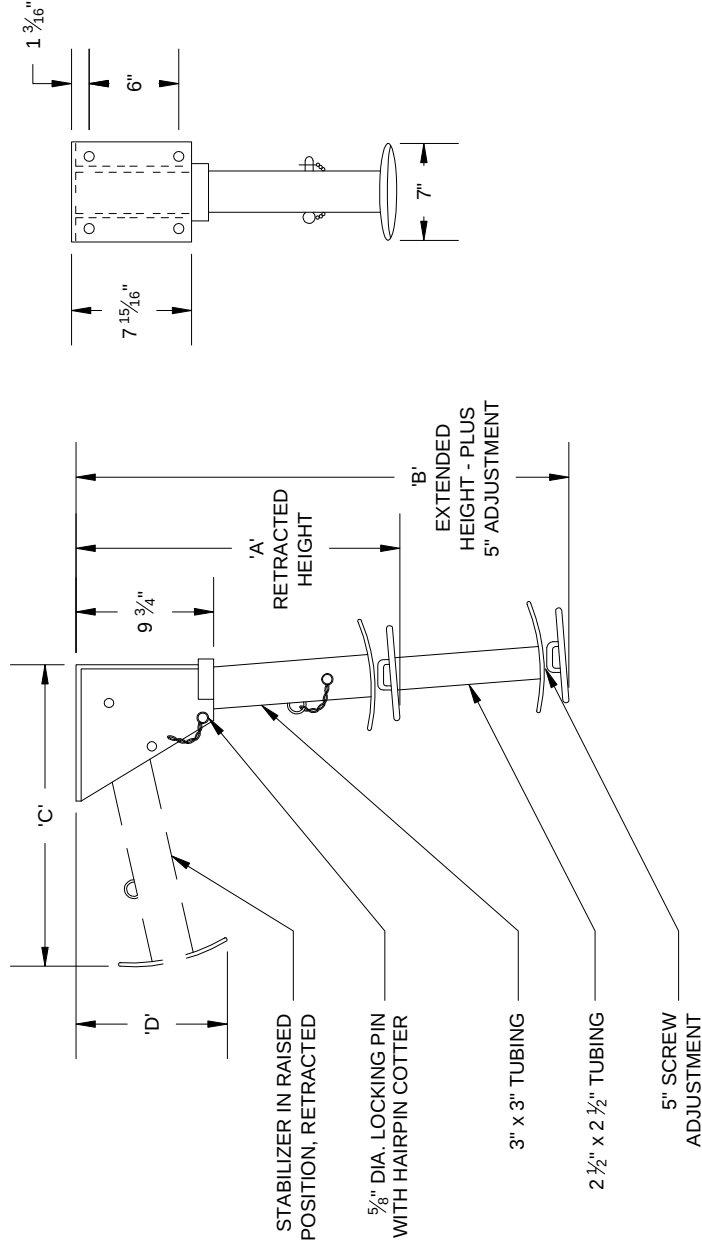
- These products are not for use with passenger lifts. They are not designed or intended to be used with devices that lift, support or otherwise transport personnel.



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

	MANUFACTURING, INC. CINCINNATI, OHIO	TITLE INSTALLATION DRAWING		SECTION C100	I23961
		ET6/8/10/12/25K(X), HT25KX		DATE 12-20-13H SUPERSEDES 04-25-12G	

PART NO.	DESCRIPTION	'A'	'B'	'C'	'D'
23960-1	SHORT STABILIZER	20 3/2"	28 3/2"	21"	7 1/4"
23960-2	LONG STABILIZER	28 1/2"	44 1/2"	29"	10 1/2"



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE	INSTALLATION DRAWING
	ET6/8/10/12/25K(X), HT25K(X)

DATE	SECTION
12-20-13H	C100
SUPERSEDES	
04-25-12G	I23

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

INTENTIONALLY LEFT BLANK



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

SAFETY & HZRDS, CONT.

DATE

01-29-15

SECTION

C150

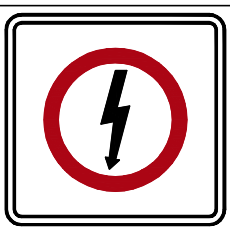
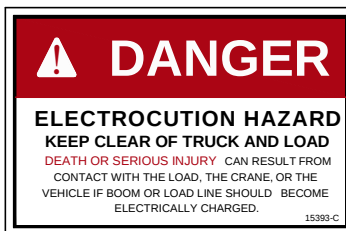
ELECTRIC CRANES

SUPERSEDES

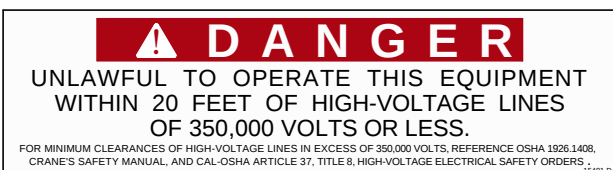
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850712

VEHICLE & CRANE MOUNTED ELECTRICAL HAZARD SIGN APPLICATION & INFORMATION



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



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

Table A - Minimum Clearance Distances

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

Table T - Minimum Clearance Distances While Traveling With No Load

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

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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

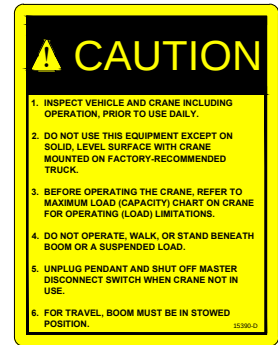
DECAL #: 15390

DESCRIPTION: CAUTION, INSPECT VEHICLE & CRANE...

PURPOSE: TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



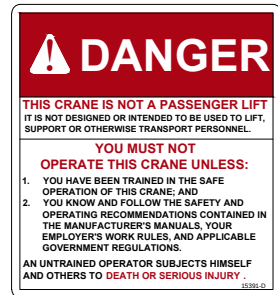
DECAL #: 15391

DESCRIPTION: DANGER, NOT A PASSENGER LIFT

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

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



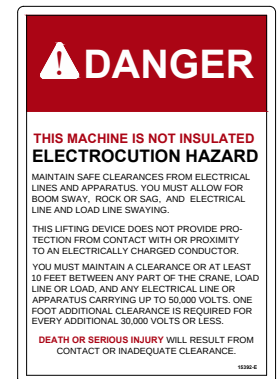
DECAL #: 15392

DESCRIPTION: DANGER, ELECTROCUTION HAZARD, MACHINE (CRANE)

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

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



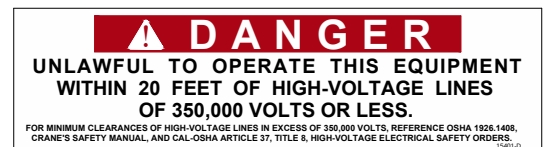
DECAL #: 15401

DESCRIPTION: DANGER, UNLAWFUL TO OPERATE

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

QUANTITY: 1

PLACEMENT: RING COVER OR SIDE OF CRANE



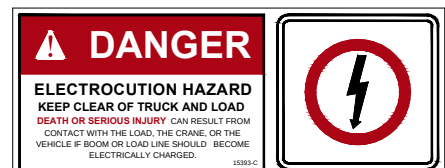
DECAL #: 15393

DESCRIPTION: DANGER, ELECTROCUTION HAZARD, VEHICLE (TRUCK)

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

QUANTITY: 4

PLACEMENT: EACH SIDE & EACH END OF VEHICLE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
SAFETY DECALS

VENTURO CRANES

DATE
04-29-16E

SUPERSEDES
10-24-13D

SECTION
C150

21353

PART NO.: 14473-2

DECAL: GREASE

FUNCTION: To show the operator where to apply grease.

QUANTITY: Varies

PLACEMENT: Near grease fittings.



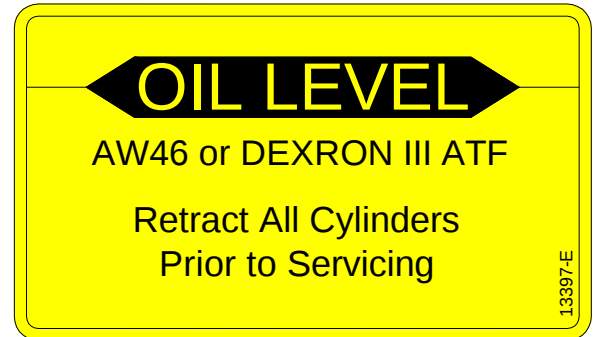
PART NO.: 13397

DECAL: OIL LEVEL

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

QUANTITY: 1

PLACEMENT: Side of hydraulic power unit.



PART NO.: 15398

DECAL: UNPLUG REMOTE CONTROL

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

QUANTITY: 1

PLACEMENT: Near pendant socket.



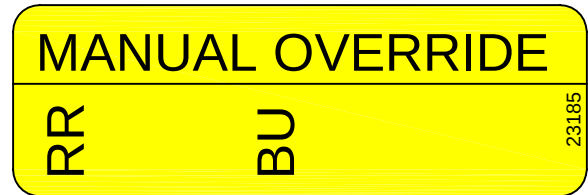
MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
DECALS
ET CRANES

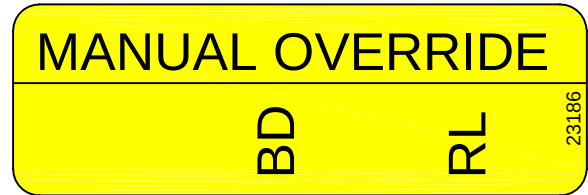
DATE
12-23-13D
SUPERSEDES
04-19-13C

SECTION
C150
21354

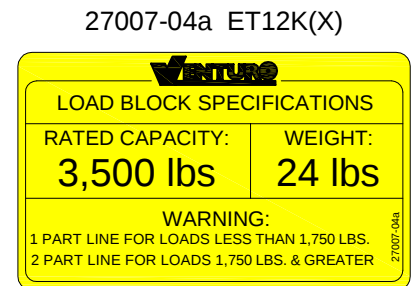
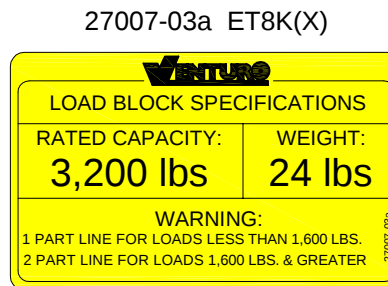
PART NO.: 23185
 DECAL: MANUAL OVERRIDE DECAL (ET8/12K)
 FUNCTION: To show the manual override ports.
 QUANTITY: 1
 PLACEMENT: Right side of housing.



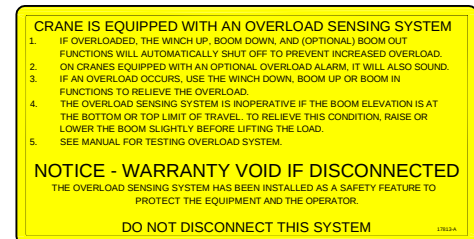
PART NO.: 23186
 DECAL: MANUAL OVERRIDE DECAL (ET8/12K)
 FUNCTION: To show the manual override ports.
 QUANTITY: 1
 PLACEMENT: Left side of housing.



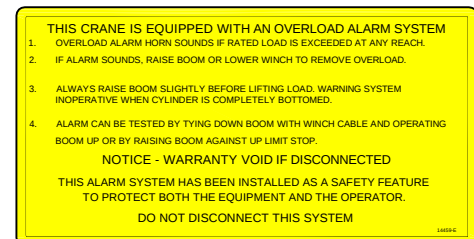
▲
 PART NO.: 27007-03a (ET8) / 27007-04a (ET12)
 DECAL: LOAD BLOCK CAPACITY DECAL
 FUNCTION: To show the capacity of load block.
 QUANTITY: 2
 PLACEMENT: Each side of load block.



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

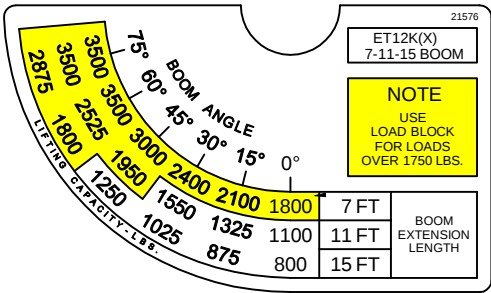
PART NO.: 21576 & 21577 (OPPOSITE)

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.: 21579

DECAL: MODEL NUMBER (ET12K)

FUNCTION: To show the model of the crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.



PART NO.: 21578

DECAL: MODEL NUMBER (ET12KX)

FUNCTION: To show the model of the crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.



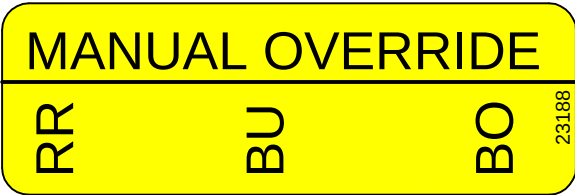
PART NO.: 23188

DECAL: MANUAL OVERRIDE RIGHT (ET8/12KX)

FUNCTION: To show the manual override ports.

QUANTITY: 1

PLACEMENT: Right side of housing.



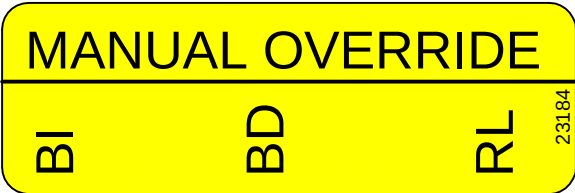
PART NO.: 23184

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
ET12K(X)

DATE
04-19-13B
SUPERSEDES
05-07-08A

SECTION
C150
21595

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 AUXILIARY BATTERY SIZE

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

* INCLUDES GROUND CABLE

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

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

CABLE & BATTERY

DATE

07-30-18X

SECTION

C200

ELECTRIC CRANES

SUPERSEDES

09-27-17W

711105

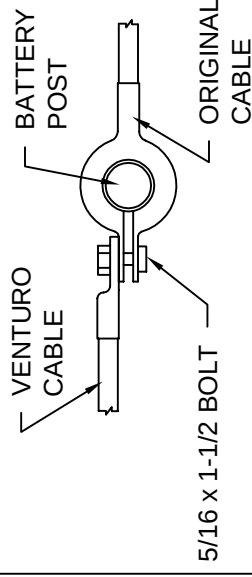
RECOMMENDED CIRCUIT BREAKER TABLE		
CRANE	DESCRIPTION	PART NO.
CT310KX	250 AMP, MAN RESET	22946-250
DT7	250 AMP, MAN RESET	22946-250
CE-1500-FB	150 AMP, MAN RESET	22946-150
CE6K	150 AMP, MAN RESET	22946-150
CT200X	250 AMP, MAN RESET	22946-250
ET6K	250 AMP, MAN RESET	22946-250
ET8/12K(X)	250 AMP, MAN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

BATTERY REQUIREMENTS

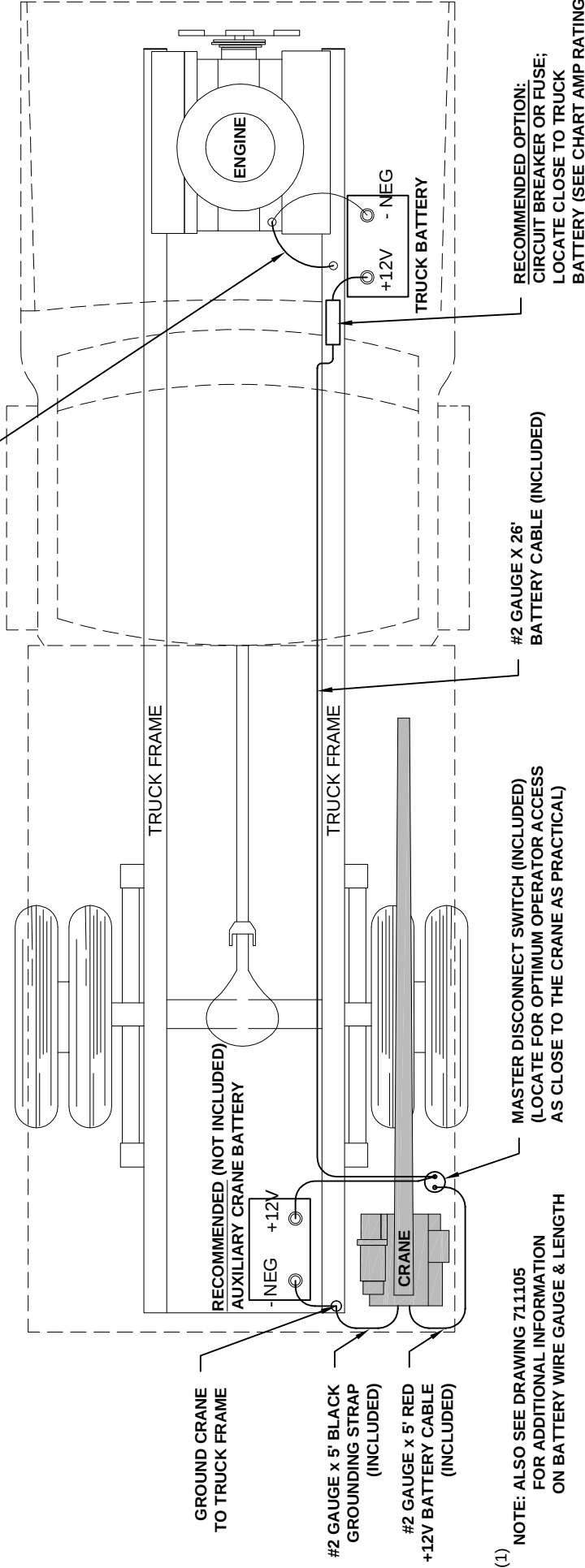
- 12 VOLT VEHICLE BATTERY REQUIREMENTS
 - 625 COLD CRANKING AMPS (AT 0° F)
 - 160 MINUTES RESERVE CAPACITY
 - 102 PLATES, 105 AMP-HR
- (1) 12 VOLT AUXILIARY BATTERY REQUIREMENTS
 - SEE MINIMUM WIRE GAUGE AND BATTERY SIZE

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

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 07-30-18L
SUPERSEDES 07-31-15K

SECTION C200

15660

STABILITY TESTING - ET12K(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 level ground and set the parking brake.
2. Deploy outriggers, making sure they are firmly in contact with supportive ground; use outrigger 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 920 lbs in conjunction with the ET12K(X)'s snatch 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 11 feet.
- ▲ 8.1. Note: Cranes with manually-extendable boom sections may require multiple testing attempts per zone (reference DWG #20907); 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 (180 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. 160 inches). This is the Maximum Stable Reach. Determine the % of Rated Capacity using the following formula:

$$\% \text{ Rated Capacity} = \frac{\text{"Max. Stable Reach" in inches}}{180} \times 100$$

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.).



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

STABILITY TEST

DATE

01-14-19C

SECTION

C200

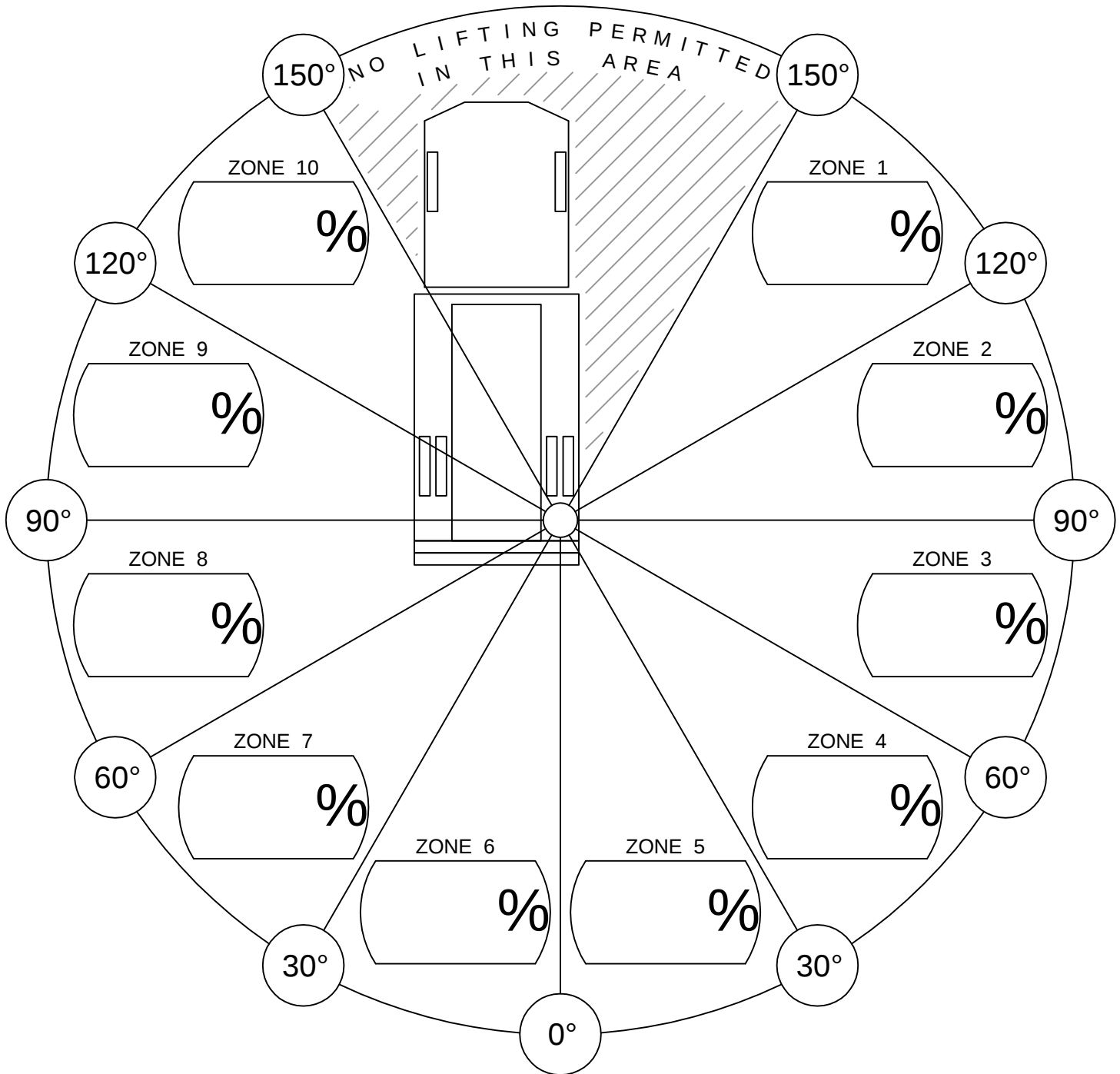
ET12K(X)

SUPERSEDES

12-12-11B

20906-12

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

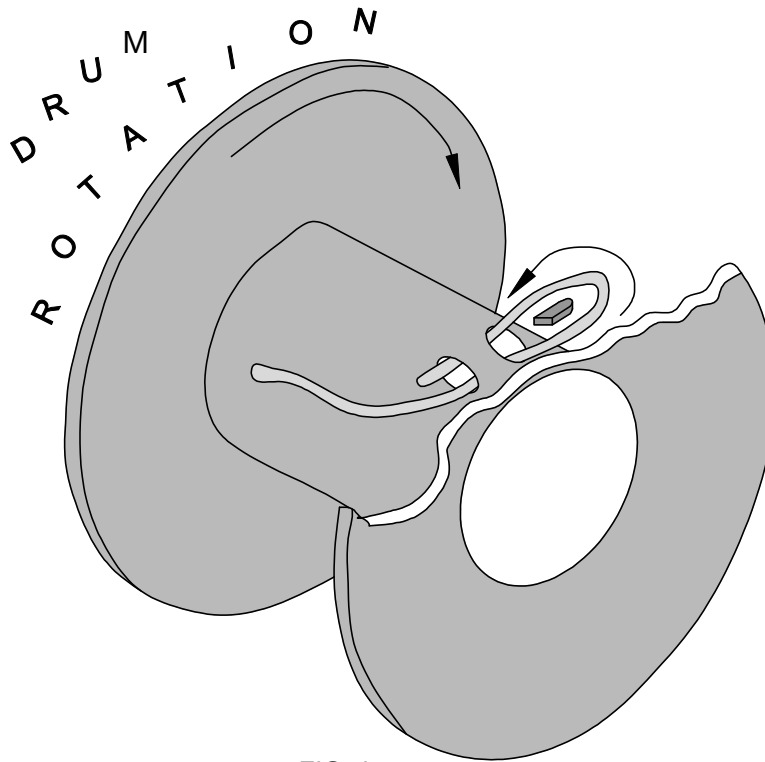


FIG. 1

- 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

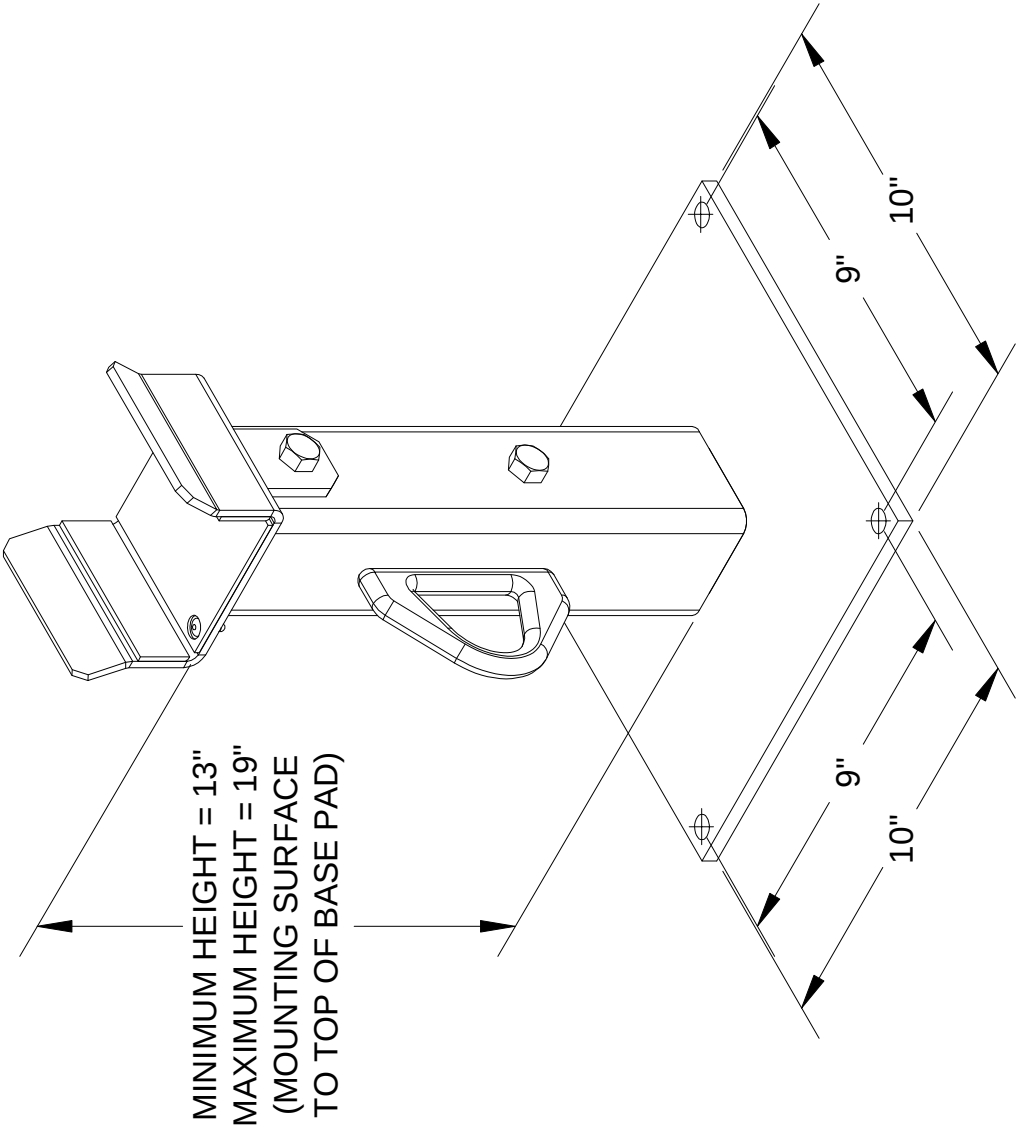
ET6K & LARGER CRANES

SUPERSEDES

12-26-13J

22245

21440 ADJUSTABLE BOOM REST



 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



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) and ET12KXP,
- 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, 21575, or 23774 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 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

07-30-18H

SECTION

C200

ET6K/8/12K(X)/12KXP

SUPERSEDES

01-15-15G

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.

- "WINCH UP" has priority over "BOOM UP", "BOOM OUT", "BOOM IN", and "ROTATION."
- "BOOM UP" has priority over "BOOM OUT", "BOOM IN", and "ROTATION."
- "BOOM OUT" and "BOOM IN" have priority over "ROTATION."
- "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. See page 22168 for detailed operations instructions and warnings.

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. Refer to Drawings 23024 or 27029 in this manual for replacement parts and configuration information, respectively.

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

07-30-18G

SECTION

C200

ET6K/8/12K(X)/12KXP

SUPERSEDES

01-15-15F

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.

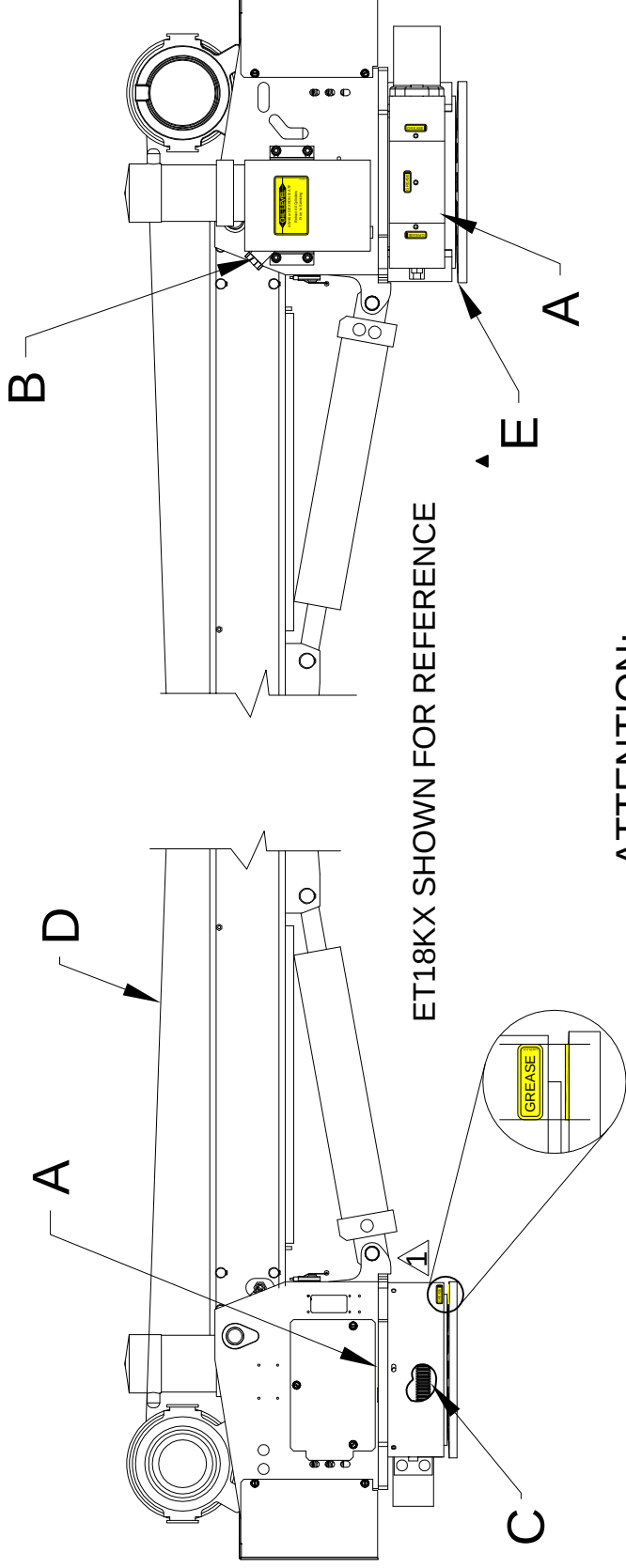


MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DWG
ET6/8/10/12K(X)

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

SECTION
C200
900530C



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

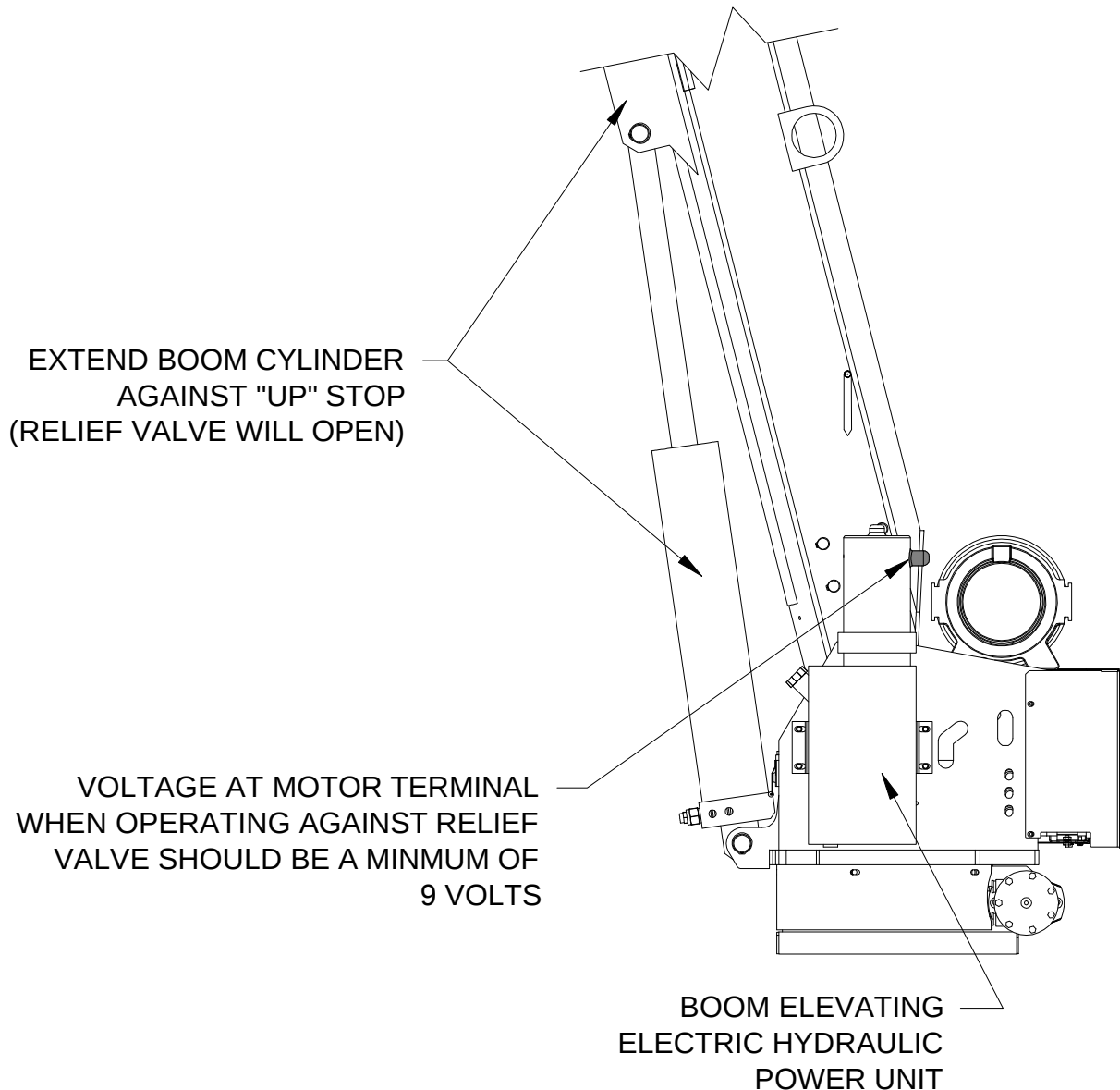
ET8/12K(X) AND ET16/18KX ▲

DATE	SECTION
11-18-14H	C300
SUPERSEDES 10-22-14G	

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:

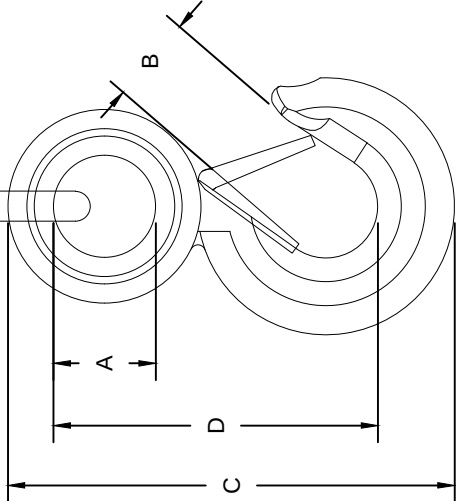
3/16" DIA, 50' LONG

▲ 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



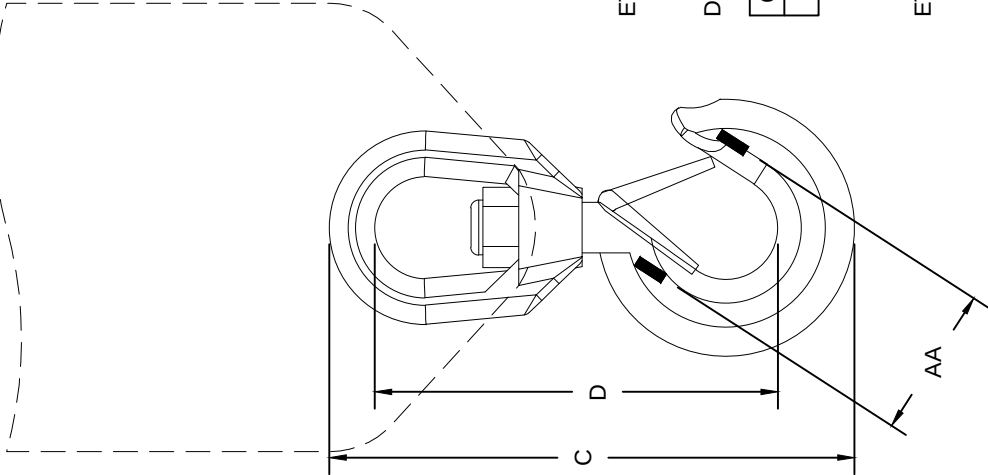
WIRE ROPE HOOK:

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:

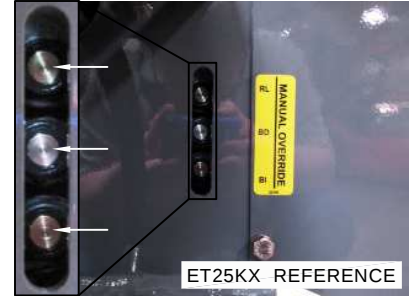
RATING: 2 TONNE (4410 LBS)

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

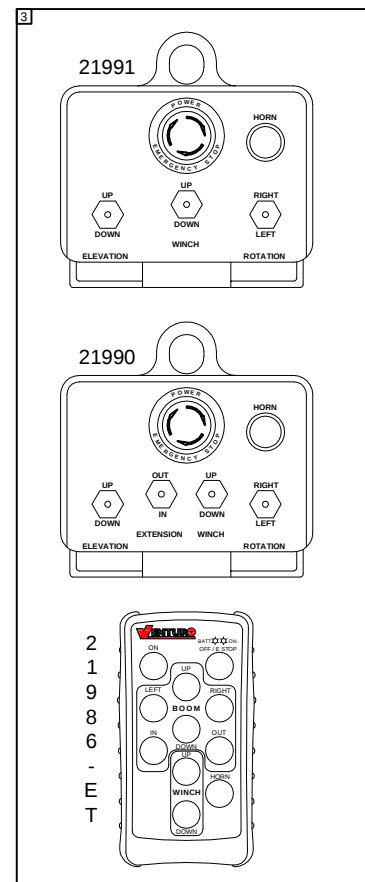
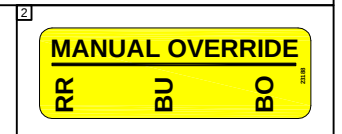
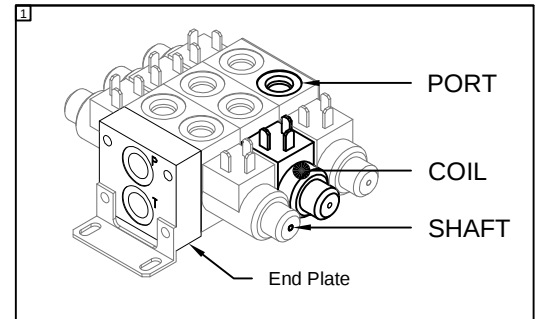
3-STATION FUNCTIONS include previous functions, plus:

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
-

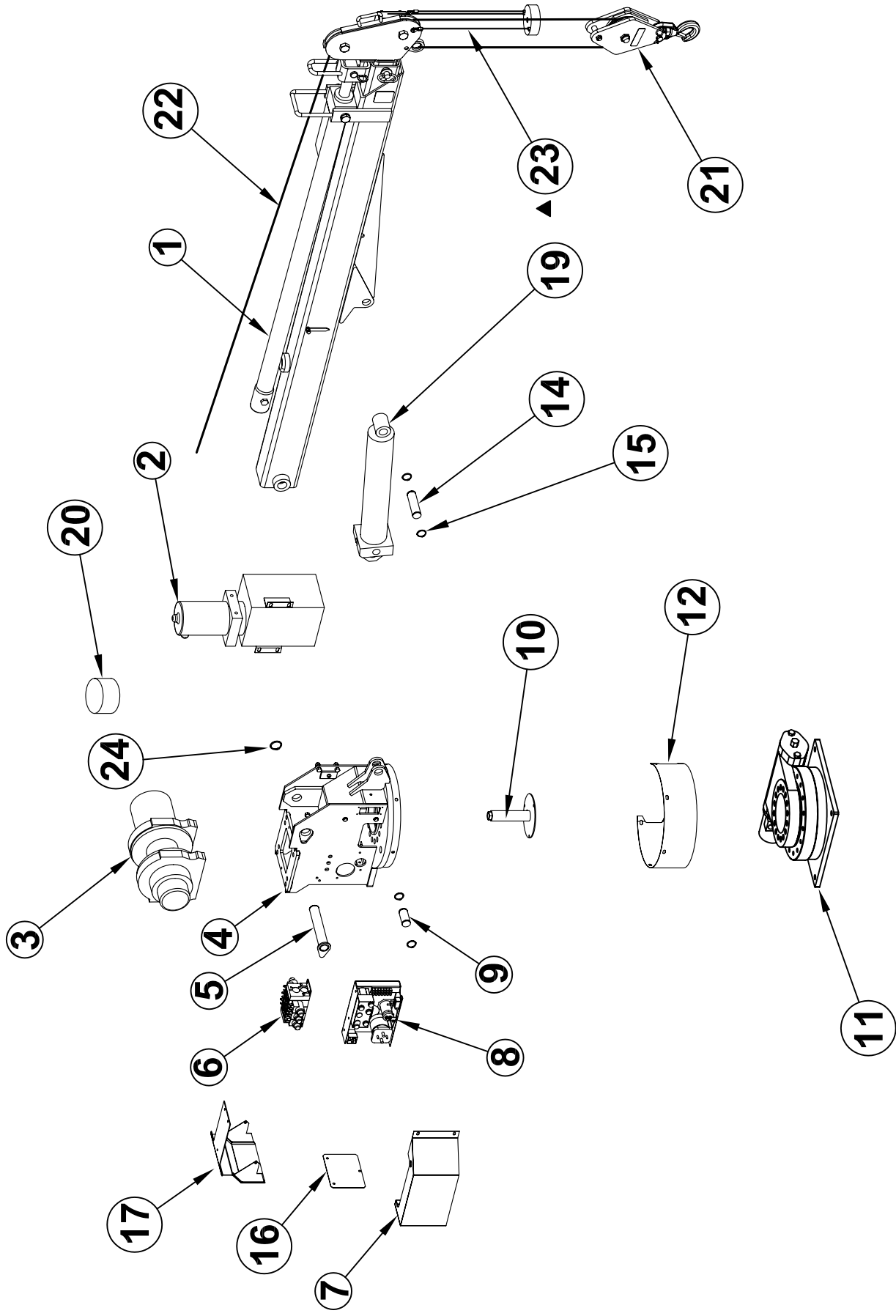
SECTION
C200

23084

SECTION 400

PARTS





REPLACEMENT PARTS LIST - 21598

VENTURO MANUFACTURING, INC. CINCINNATI, OHIO	TITLE REPLACEMENT PARTS		SECTION C400
	DATE 12-4-07C		SUPERSEDES 10-15-07B
	ET12KX		21597

REF. PARTS DRAWING 21597

24	1	!SRNG-125	SNAP RING; 1 1/4"
23	1	19377-1	ASSY; ANTI-2-BLOCK WEIGHT
22	1	21639	ASSY; WIRE ROPE
21	1	20670	SWVEL LOAD BLOCK
20	1	16143-1	COVER; MOTOR
19	1	23059	ASSY; ELEV. CYL. W/ COMPOSITE BEARINGS
18	-	-	-
17	1	27626	ASSY; WELDED, REAR COVER
16	1	21624	COVER PLATE; REAR
15	4	!SRNG-113	SNAP RING; 1 1/8"
14	1	21547	PIVOT PIN; ELEV. CYL. TO BOOM
13	-	-	-
12	1	21185	GUARD; ROTATION GEAR
11	1	21735	ROTATION DRIVE SYSTEM
10	1	21506	ASSY; CANDLESTICK, SWVEL PIGTAIL
9	1	21546	PIVOT PIN; ELEV. CYL. BASE
8	1	21515	ASSY; ELECTRICAL COMPONENT
7	1	21621	COVER; ELECTRICAL COMPONENT ASSY.
6	1	21614	VALVE BLOCK; 4 - 3
5	1	21540	PIVOT PIN; MAIN BOOM
4	1	21811	ASSY; WELDED, UNIV. UPPER HSG.
3	1	21556	WINCH
2	1	20873	HYDRAULIC POWER UNIT
1	1	28008-1	ASSY; FINAL, ET12KX BOOM
ITEM NO.	QTY.	PART NO.	DESCRIPTION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST

ET12K(X)

DATE

10-11-17H

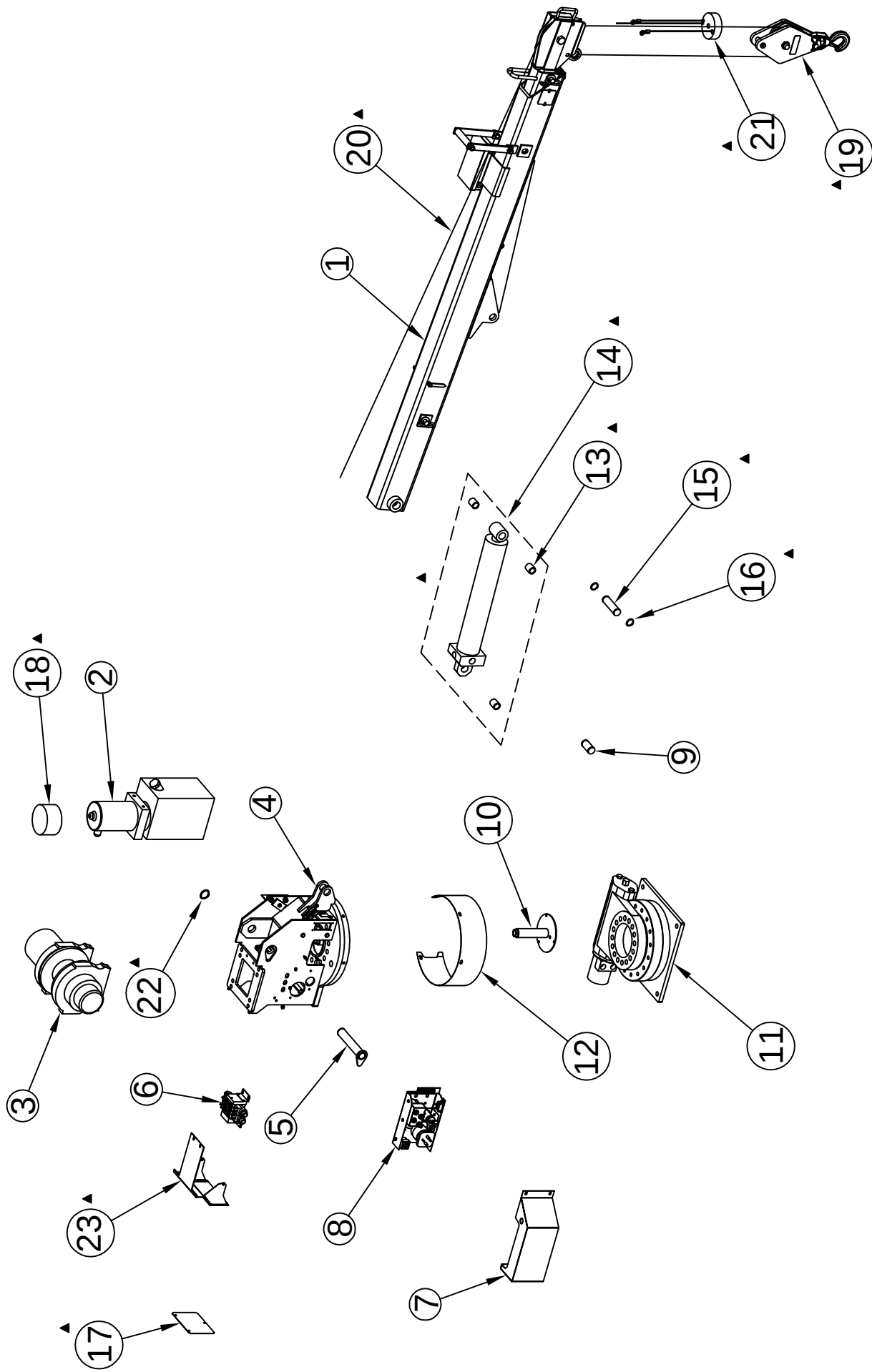
SUPERSEDES

12-11-13G

SECTION

C400

21598



REFERENCE REPLACEMENT PARTS LIST #21608



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DWG

ET12K

DATE

07-30-15D

SUPERSEDES

03-25-10C

SECTION

C400

21607

ET12K REPLACEMENT PARTS LIST

23	1	27626	ASSY; WELDED, REAR COVER
22	1	!SRNG-125	SNAP RING; 1 1/4"
21	1	19377-1	ASSY; ANTI-2-BLOCK WEIGHT
20	1	21639	ASSY; WIRE ROPE
19	1	20670	SWIVEL LOAD BLOCK
18	1	16143-1	COVER; MOTOR
17	1	21624	PLATE; REAR COVER
16	4	!SRNG-113	SNAP RING; 1 1/8"
15	1	21547	PIVOT PIN; ELEVATION CYLINDER, ROD
▲ 14	1	23059	ASSY; ELEV. CYL., INCLUDES COMPOSITE BEARINGS
13	3	21789	COMPOSITE BEARING
12	1	21185	GUARD; ROTATION GEAR
11	1	21735	ROTATION POWER UNIT W/ MTNG. BASE
10	1	21506	ASSY; SWIVEL PIGTAIL CANDLSTICK
9	1	21546	PIVOT PIN; ELEVATION CYLINDER, BASE
8	1	21515	ASSY; ELECTRICAL COMPONENT
7	1	21621	COVER; ELECTRICAL, SIDE
6	1	21615	VALVE BLOCK; 4 - 2
5	1	21540	PIVOT PIN; MAIN BOOM
4	1	21811	ASSY; WELDED, UNIV. UPPER HOUSING
3	1	21556	WINCH; ELECTRIC
2	1	20873	HYDRAULIC POWER UNIT
1	1	28008	FINAL ASSY; BOOM, ET12K
ITEM NO.	QTY	PART NO.	DESCRIPTION

REFERENCE PARTS DWG #21607



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT PARTS LIST

ET12K

DATE

08-12-15K

SUPERSEDES

07-30-15J

SECTION

C400

21608

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
IHWHS02520063-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
IHWHS02520063-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
IPHCS-#1024050	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
IPHCS-#0832050	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
IHWHS03118075-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
IHWHS02520063-F	HEX WASHER HEAD SCREW; 1/4-20 X 5/8", SELF-TAPPING	3	LOWER REAR COVER TO HOUSING
IHWHS02520063-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

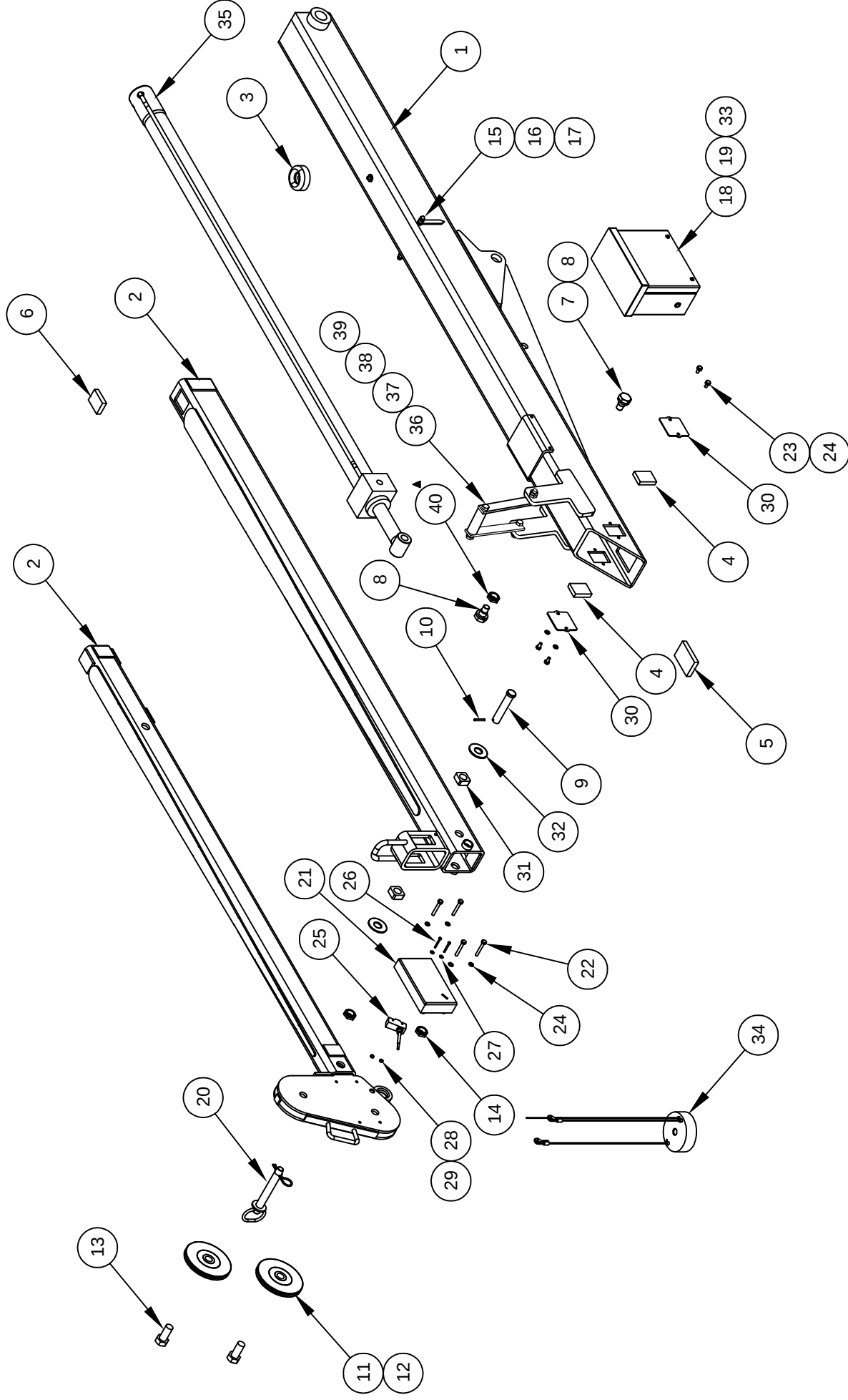
SECTION
C400

ET8/12K(X) MECH ASSEMBLY

SUPERSEDES
01-20-15B

28036

28008-1 BOOM PARTS DRAWING



REFERENCE PARTS LIST 21793



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
28008-1 BOOM PARTS DRAWING

DATE
08-16-17B

SECTION
C400

ET12KX

SUPERSEDES
01-24-13A

21792

28008-1 BOOM REPLACEMENT PARTS LIST

40	2	!HNUT-07516	HEX JAM NUT 3/4-16 UNF
39	2	!FWSH-050SAE	FLAT WASHER 1/2 SAE
38	1	!JNUT-04414N	NYLON LOCK JAM NUT, 7/16-14
37	2	!HHCS05013125	HEX HEAD CAP SCREW 1/2-13 X 1-1/4 LG
36	1	27090	WIRE ROPE GUIDE ASSY.
35	1	21690	1-7/8 X 48-1/8 DA CYLINDER
34	1	19377-1	ANTI-2-BLOCK WEIGHT ASSEMBLY
33	4	!LWSH-031	LOCK WASHER; 5/16"
32	2	!FWSH-075	3/4" FLAT WASHER
31	2	21734	THRUST ROLLER
30	2	21528	BEARING CAP
29	2	!HNUT-#0632	HEX NUT 6-32
28	2	!LWSH-#06	LOCK WASHER - 6
27	2	!FWSH-#06	FLAT WASHER #06
26	2	!PHMS#0632125	PHILLIPS HEAD CAP SCREW 6-32 X 1-14 LG
25	1	19376	ANTI-TWO BLOCK SWITCH
24	8	!LWSH-025	LOCKWASHER - 1/4
23	4	!HHCS02520050	HEX HEAD CAP SCREW - 1/4-20 X 1/2 LG
22	4	!HHCS02520175	HEX HEAD CAP SCREW - 1/4-20 X 1-3/4 LG
21	1	21291	ANTI-TWO-BLOCK HOUSING ASSEMBLY
20	1	19258-1	BOOM PIN
19	4	!SHCS03118050	SHCS 5/16-18 X 1/2 LONG
18	1	22683	ANTI 2 BLOCK CORD REEL ASSEMBLY
17	2	!ANUT-02520S	ACORN NUT 1/4-20 STAINLESS
16	2	22490	SPACER, BOOM ARROW 1/2" O.D.
15	2	13459-1	BOOM ARROW 3-3/16 LONG
14	2	!LNUT-07510	LOCKNUT 3/4-10
13	2	17059-4	SHEAVE AXLE
12	2	21630	CABLE SHEAVE - PLASTIC
11	2	20536	SPACER - 20537 SHEAVE
10	1	!RPIN-016125	ROLL PIN, 5/32 X 1-1/4
9	1	13401-2A	ROD PIVOT PIN - 3/4 x 3-3/4
8	2	17487	PIVOT BOLT, ADJUSTABLE, ECCENTRIC
7	2	!LWSH-075	LOCK WASHER - 3/4"
6	1	21538	BOOM BEARING - 1-1/2 X 2 X 1/2
5	1	21208	BOOM BEARING - 2 X 3 X 1/2
4	2	21209	BOOM BEARING - 1-1/2 X 2 X 7/16
3	1	20285	BUMPER - BOOM
2	1	28015	SECONDARY AND TERTIARY BOOM ASSEMBLY
1	1	28010-1	PRIMARY BOOM WELDED ASSEMBLY
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION

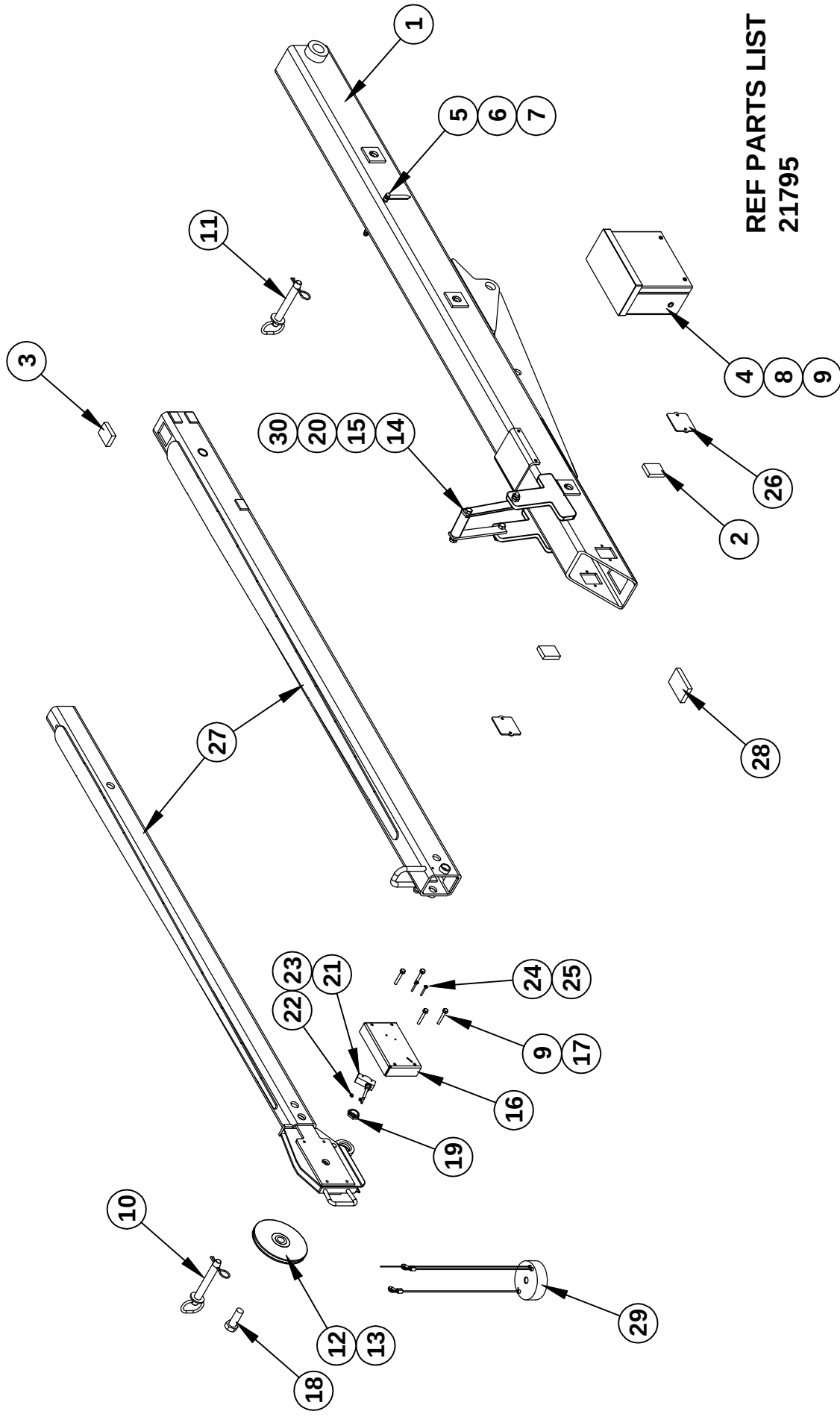
REFERENCE PARTS DRAWING 21792



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

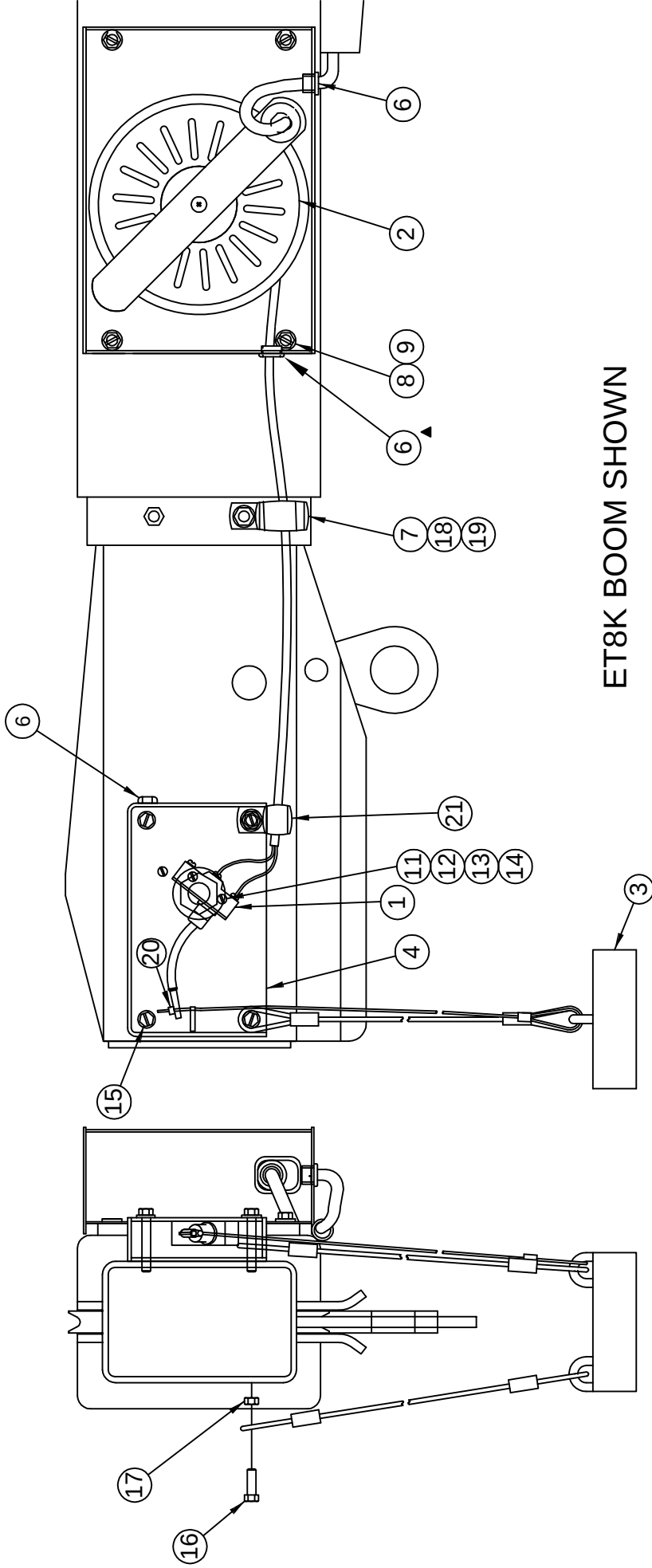
TITLE	DATE	SECTION
28008-1 RPLCMNT PARTS LIST	08-16-17C	C400
ET12KX	SUPERSEDES	
	01-24-13B	21793

28008 BOOM PARTS DRAWING



29	1	19377-1	ANTI-2-BLOCK WEIGHT ASSEMBLY
28	1	21208	BOOM BEARING - 2 X 3 X 1/2
27	1	21685	SECONDARY & TERTIARY BOOM WELD ASSEMBLY
26	2	21528	BEARING CAP
25	2	!FWSH-#06	FLAT WASHER #06
24	2	!PHMS#0632125	PHILLIPS HEAD CAP SCREW 6-32 X 1-14 LG
23	2	!HNUT-#0632	HEX NUT 6-32
22	2	!LWSH-#06	LOCK WASHER - 6
21	1	19376	ANTI-TWO BLOCK SWITCH
20	1	!JNUT-04414N	NYLON LOCK-JAM NUT - 7/16-14
19	1	!JNUT-07510N	NYLON LOCK-JAMNUT 3/4-10
18	1	17059-6	SHEAVE AXLE 3/4 X 2 W/ 1" SHANK
17	4	!HHCS02520175	HEX HEAD CAP SCREW - 1/4-20 X 1-3/4 LG
16	1	21277	SWITCH BRACKET
15	2	!HHCS04414125	HEX HEAD CAP SCREW 7/16-14 X 1-1/4 LG
14	1	21566	ASS'Y, WIRE ROPE GUIDE
13	1	20536	SPACER - 20537 SHEAVE
12	1	20537	POLY CABLE SHEAVE W/ BUSHING
11	1	19258-2	BOOM PIN - 73/35/32
10	1	19258-3	BOOM PIN - 33/15/12
9	8	!LWSH-025	LOCKWASHER - 1/4
8	4	!HHCS02520050	HEX HEAD CAP SCREW 1/4-20 X 1/2 LG
7	2	!ANUT-02520S	ACORN NUT 1/4-20 STAINLESS
6	2	13459-1	BOOM ARROW 3-3/16 LONG
5	2	22490	SPACER, BOOM ARROW 1/2" O.D.
4	1	22683	ANTI 2 BLOCK CORD REEL ASSEMBLY
3	1	21538	BOOM BEARING - 1-1/2 X 2 X 1/2
2	2	21209	BOOM BEARING - 1-1/2 X 2 X 7/16
1	1	28010	PRIMARY BOOM WELDED ASSEMBLY
ITEM NO.	EXPLODED/QTY.	PART NUMBER	DESCRIPTION

**REF. PARTS
DRAWING
21794**



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) ▲

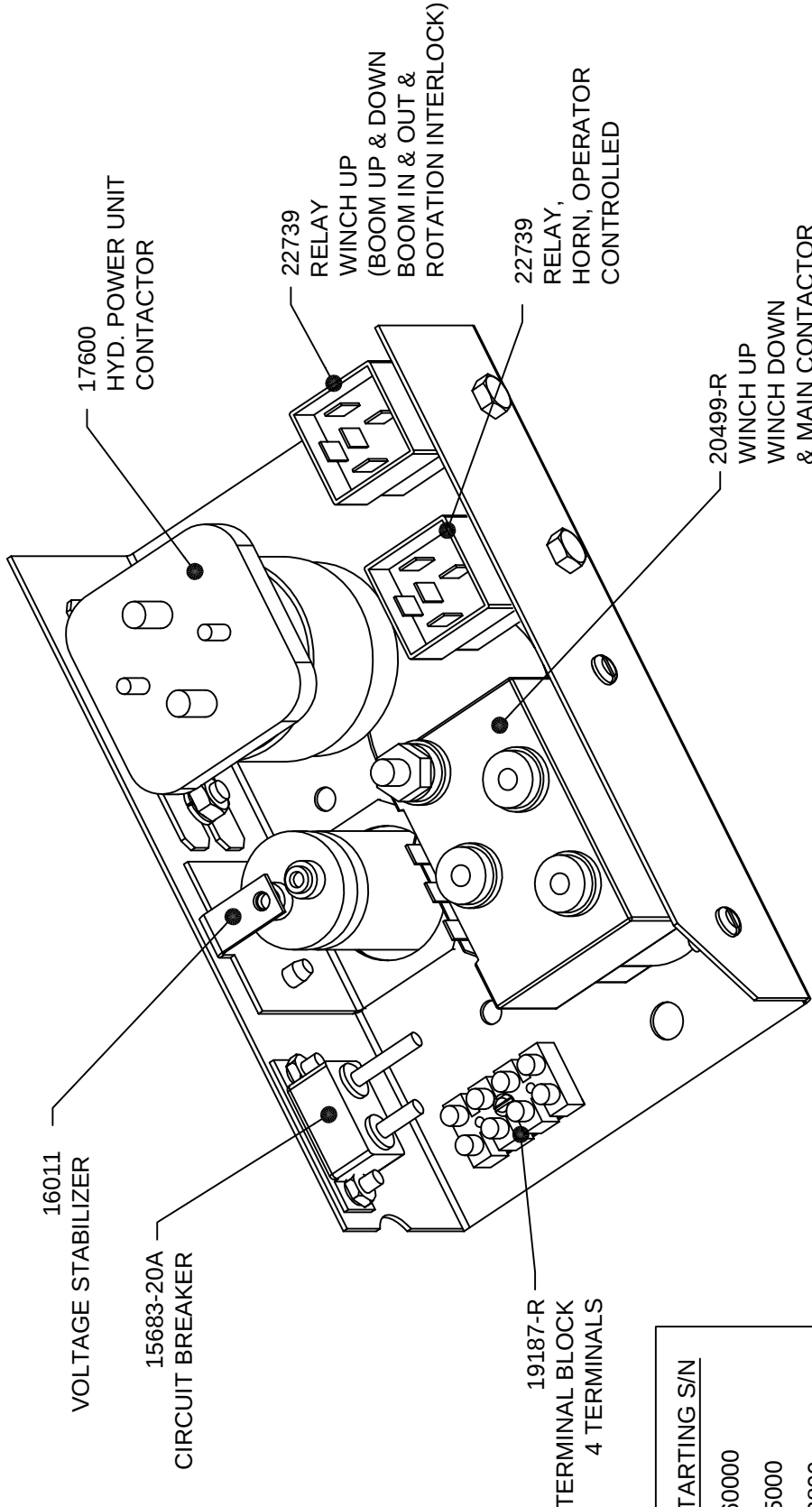
DATE
01-21-15B

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
ET12KXP	25C000001



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
ELECTRICAL COMPONENT ASSEMBLY

DATE
07-31-18F

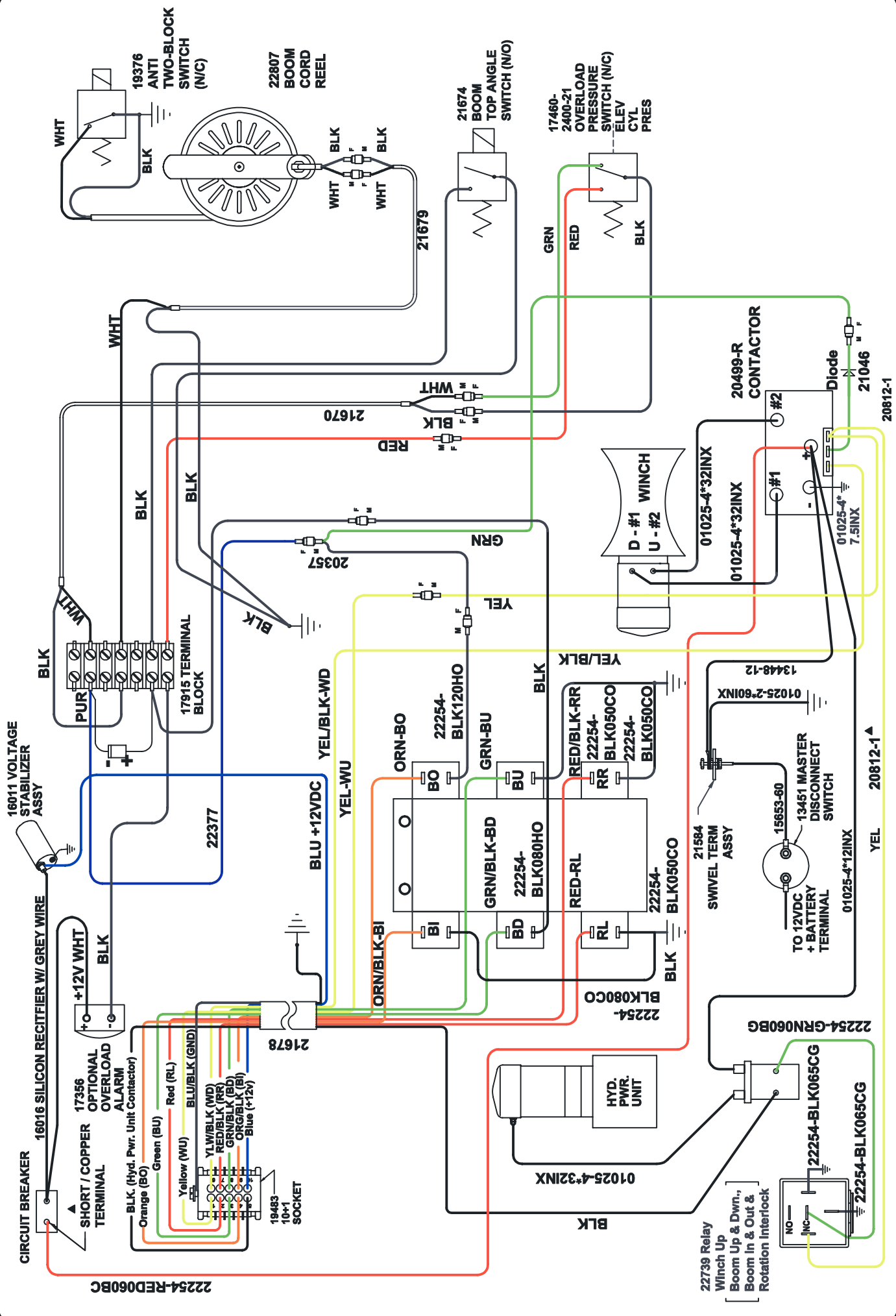
SUPERSEDES
02-10-15E

SECTION

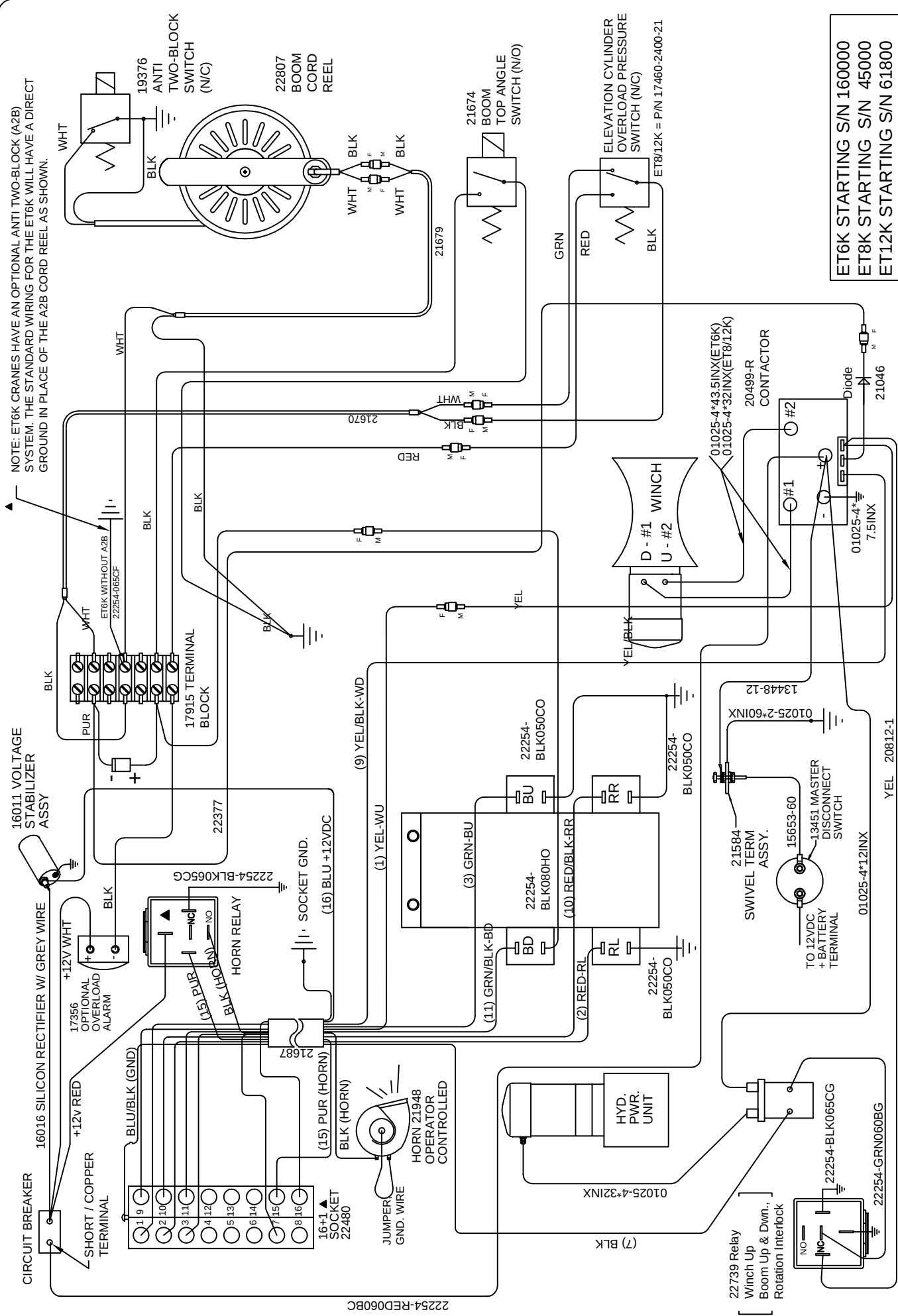
C400

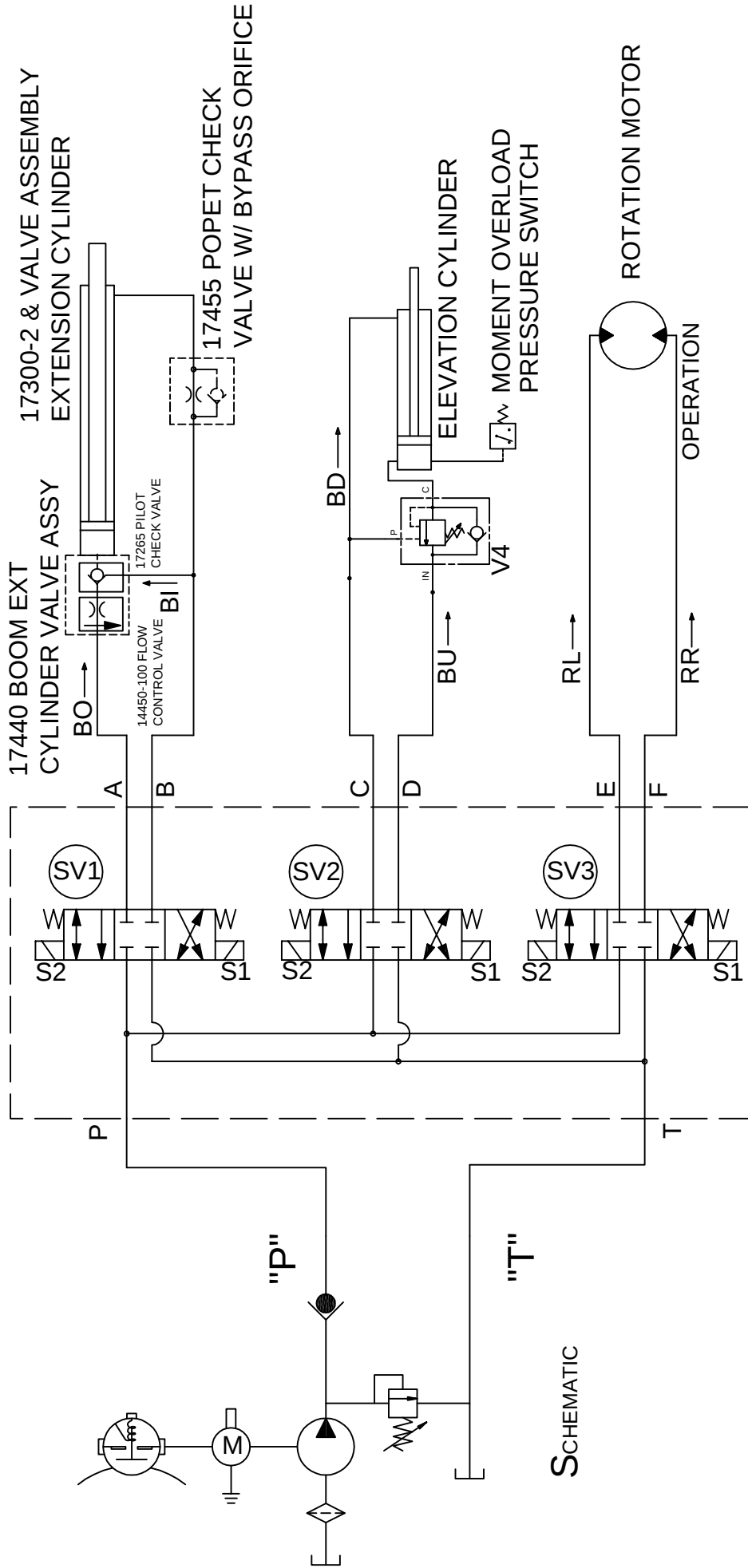
ET6K, ET8/12K(X), ET12KXP

21600



VENTURO MANUFACTURING, INC. CINCINNATI, OHIO	TITLE WIRING DIAGRAM	DATE 4-12-10H	SECTION -
	ET12KX	SUPERSEDES 3-17-10G	21628





SV1	SV2	SV3
ENERGIZE "S2" OPEN FLOW 'P' TO 'A'	ENERGIZE "S2" OPEN FLOW 'P' TO 'C'	ENERGIZE "S2" OPEN FLOW 'P' TO 'E'
ENERGIZE "S1" OPEN FLOW 'P' TO 'B'	ENERGIZE "S1" OPEN FLOW 'P' TO 'D'	ENERGIZE "S1" OPEN FLOW 'P' TO 'F'
ENERGIZE "S2" OPEN FLOW 'A' TO 'T'	ENERGIZE "S2" OPEN FLOW 'C' TO 'T'	ENERGIZE "S2" OPEN FLOW 'E' TO 'T'

NOTE:
17440 CYLINDER & SV1 VALVE NOT AVAILABLE ON 'K' SERIES CRANES

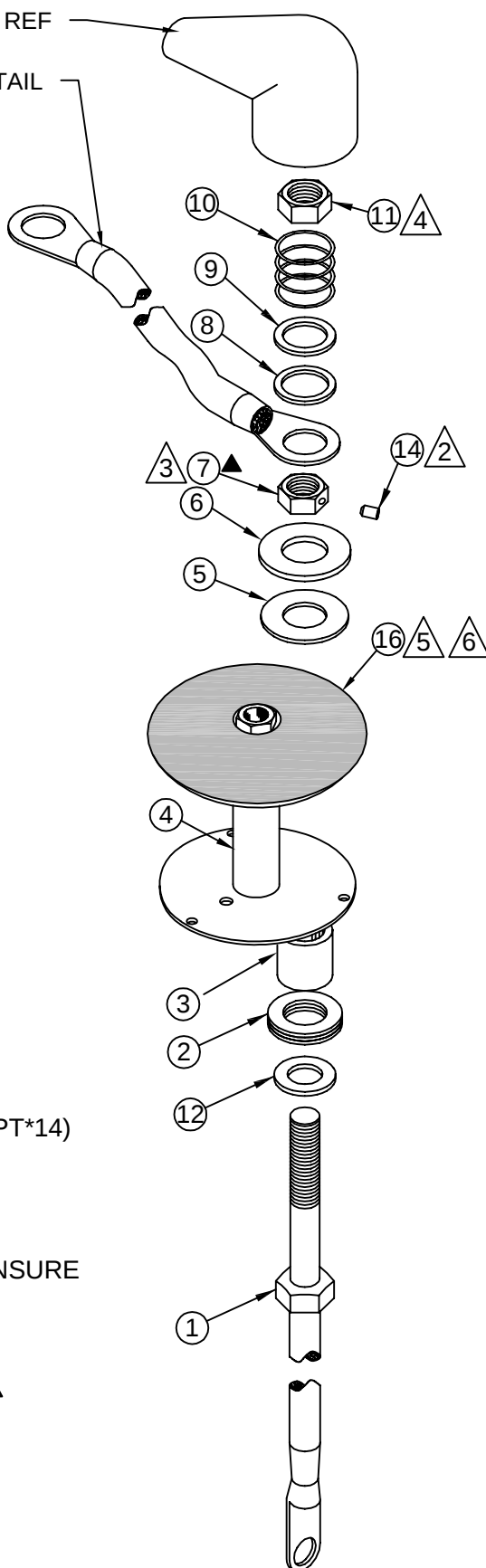
 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	HYDRAULIC SYSTEM DIAGRAM		DATE	SECTION
	ET8/12KX	21602	01-26-15C SUPERSEDES 12-26-13B	C400

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

DATE

03-03-17F

SECTION

C400

ET6K, ET8/12K(X)

SUPERSEDES

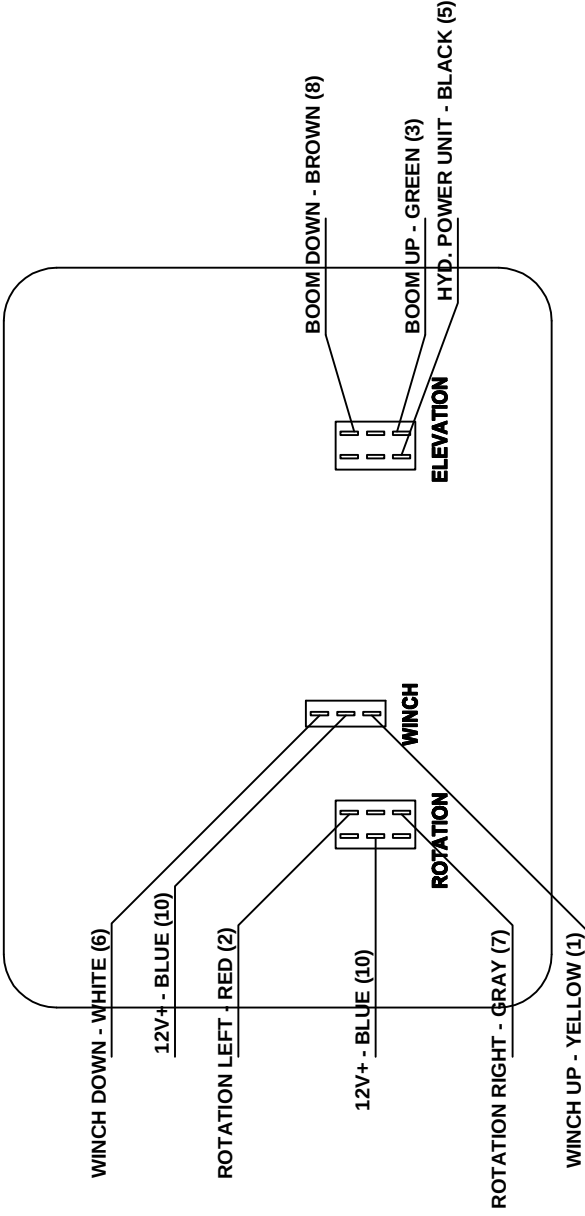
02-17-15E

21584i

22061 PENDANT (3-SWITCH)

CORD REPLACEMENT INSTRUCTIONS

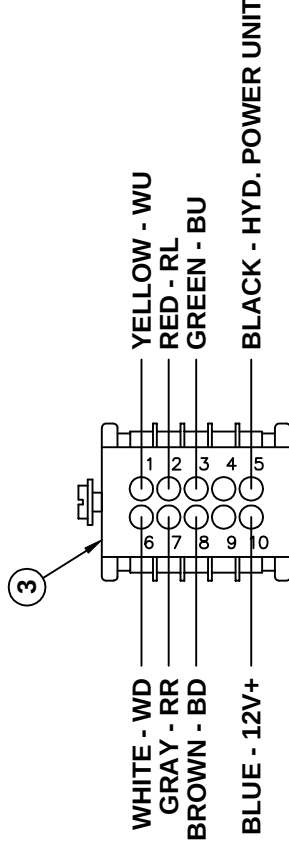
(INSIDE VIEW OF PENDANT CONTROL W/ REAR COVER REMOVED)



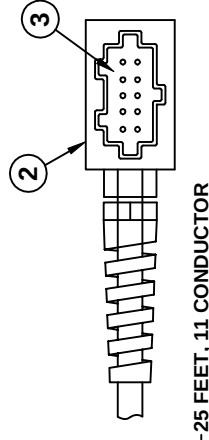
NOTE 1)
WIRE TERMINALS TO BE
INSTALLED 'AFTER' ROUTING
REPLACEMENT CORD ASSY
THROUGH PENDANT HEAD
AND PLUG HOUSING.

NOTE 2)
TOGGLE SWITCH JUMPER
WIRES NOT SHOWN FOR
CLARITY.

NOTE 3)
STOW OR CUT-BACK
UNUSED WIRES.



PLUG - BACKSIDE VIEW



25 FEET, 11 CONDUCTOR

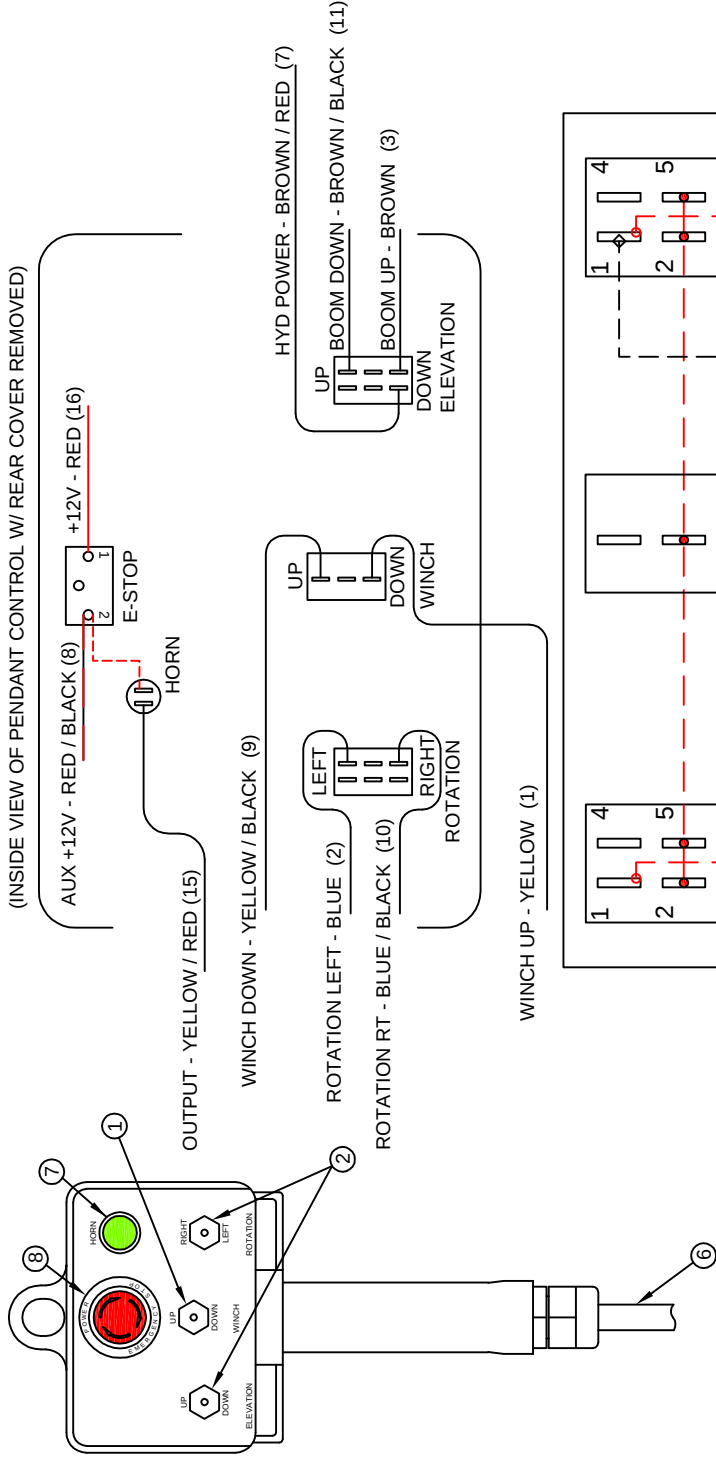
ITEM	QTY	PART NO.	DESCRIPTION
4	2	22152	DPDT MOMENTARY TOGGLE SWITCH
3	1	19427	MALE INSERT - 10 + 1 POLE
2	1	19426	PLUG CASE - 10 + 1 POLE
1	1	22081	SPDT MOMENTARY SWITCH

TITLE	DATE	SECTION
REPLACEMENT PARTS DRAWING	9-28-12B	C400
22061 PENDANT (STANDARD CTRL)	SUPERSEDES 9-6-11A	22077



MANUFACTURING, INC.
CINCINNATI, OHIO

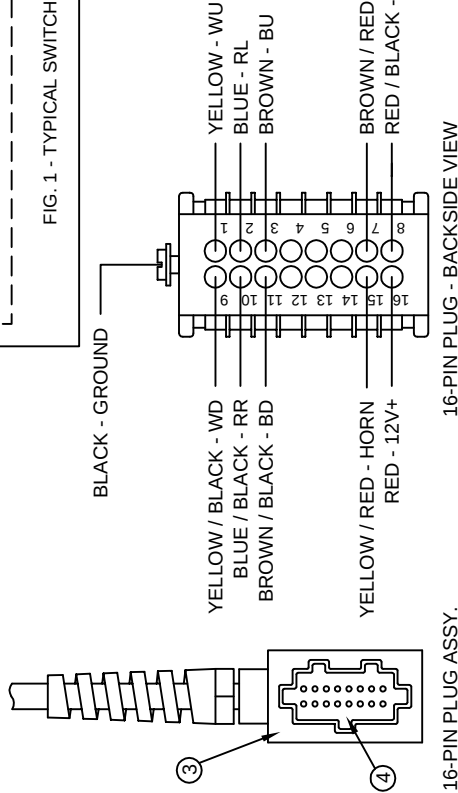
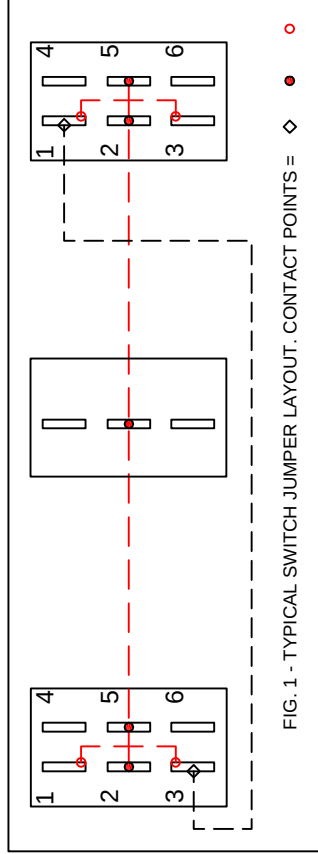
21991 PENDANT; 3 FUNCTION ET CRANES, E-STOP / HORN



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	STARTING S/N
ET8K	45000
ET12K	61800



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	-	-	-
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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

REPLACEMENT PARTS DWG & LIST

21991 PNDNT; 3 FNCTN ET CRNS, ESTP/HRN

DATE
10-03-14

SUPERSEDES
-

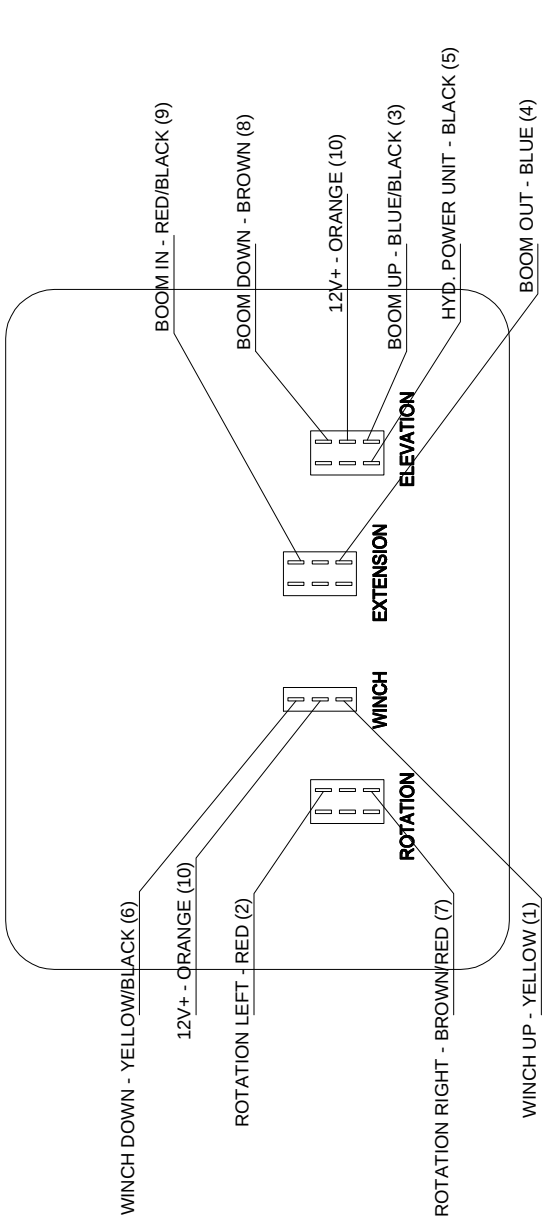
SECTION
C400

23076

22060 PENDANT (4 - SWITCH)

CORD REPLACEMENT INSTRUCTIONS

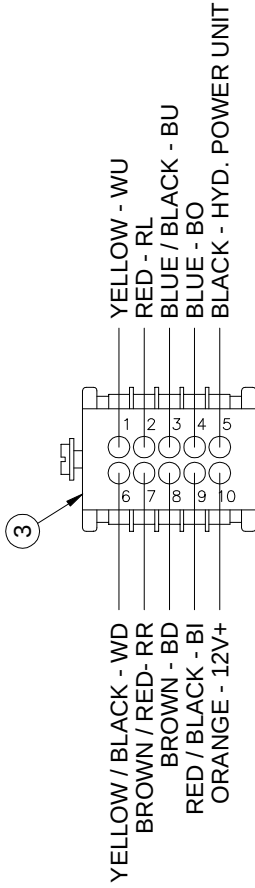
(INSIDE VIEW OF PENDANT CONTROL W/ REAR COVER REMOVED)



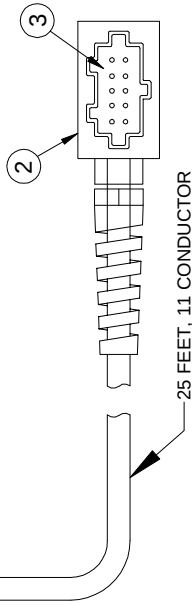
NOTE 1)
WIRE TERMINALS TO BE
INSTALLED 'AFTER' ROUTING
REPLACEMENT CORD ASSY
THROUGH PENDANT HEAD
AND PLUG HOUSING.

NOTE 2)
TOGGLE SWITCH JUMPER
WIRES NOT SHOWN FOR
CLARITY.

NOTE 3)
STOW OR CUT-BACK
UNUSED WIRES.



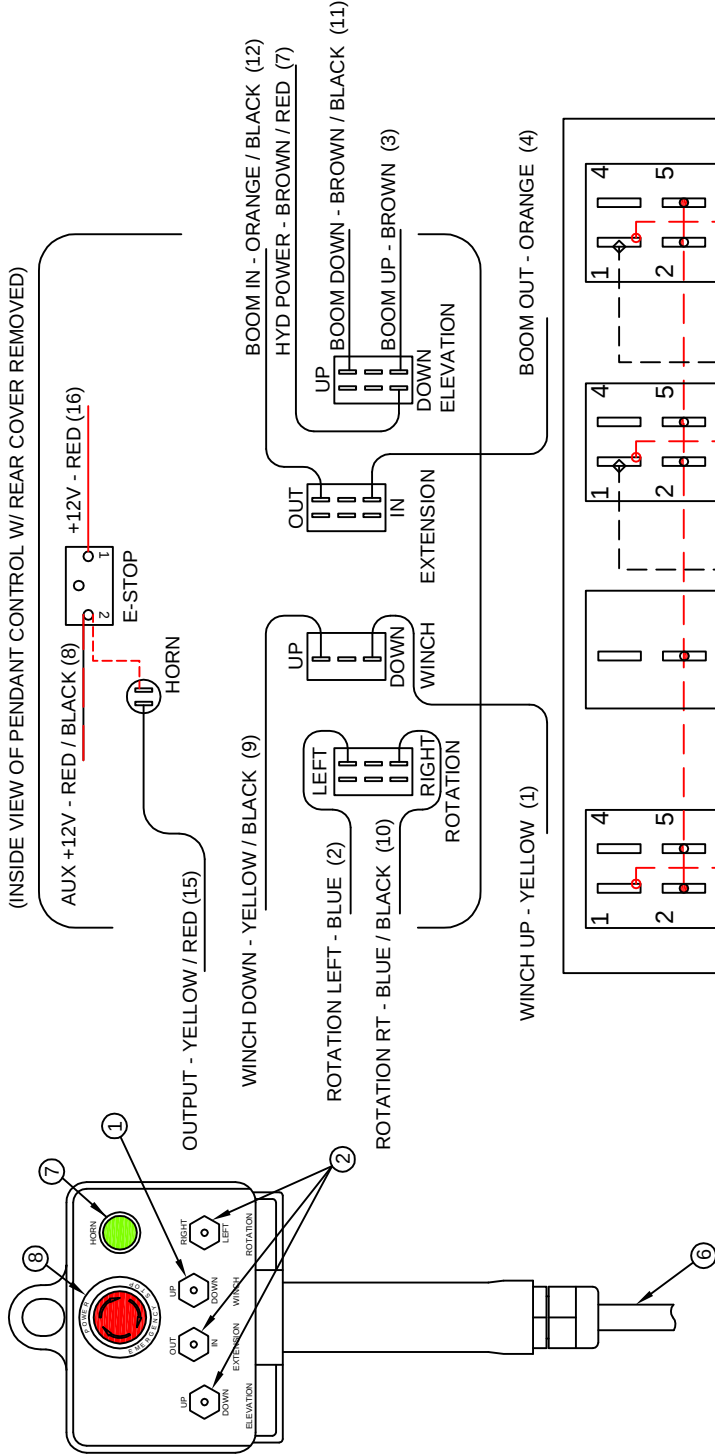
PLUG - BACKSIDE VIEW



4	3	22152	DPDT MOMENTARY TOGGLE SWITCH
3	1	19427	MALE INSERT - 10 + 1 POLE
2	1	19426	PLUG CASE - 10 + 1 POLE
1	1	22081	SPDT MOMENTARY TOGGLE SWITCH
ITEM	QTY	PART NO.	DESCRIPTION

	TITLE		SECTION	22076
	REPLACEMENT PARTS DRAWING & LIST		C400	
	22060 PENDANT (STANDARD CONTROL)		DATE 12-10-13C SUPERSEDES 09-28-12B	

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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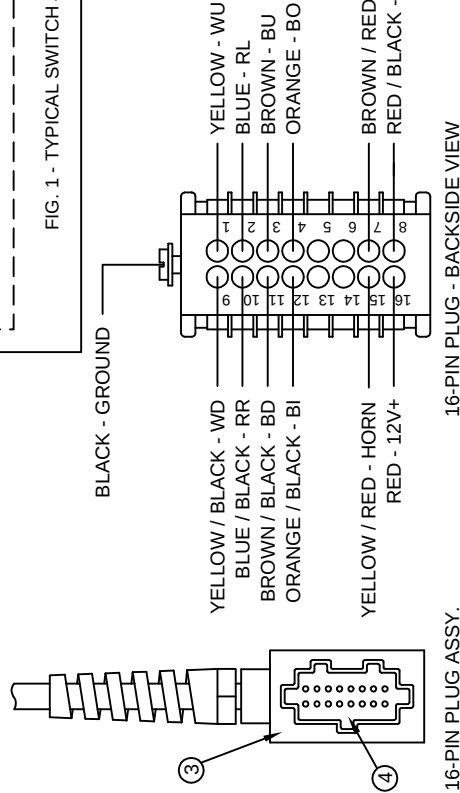
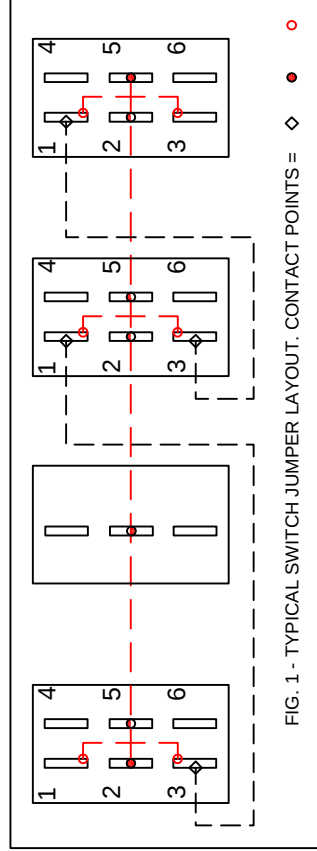
ET16KX	170000
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ET18KX	95900
--------	-------

ET25KX	125300
--------	--------

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
01-12-17B

SUPSEDES

10-20-14A

SECTION
C400

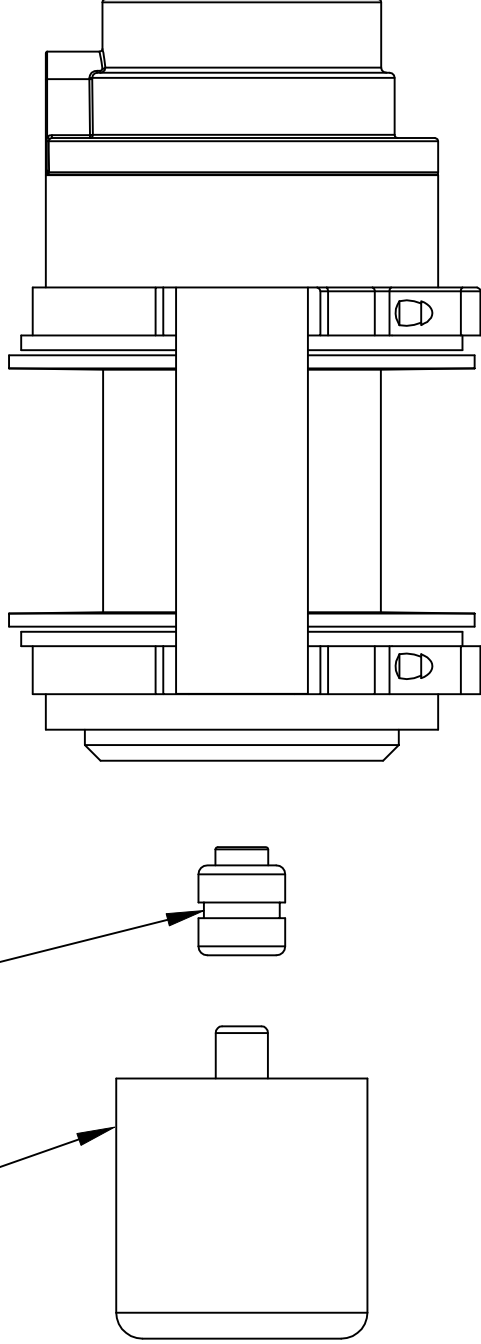
23075

21556 WINCH REPLACEMENT PARTS

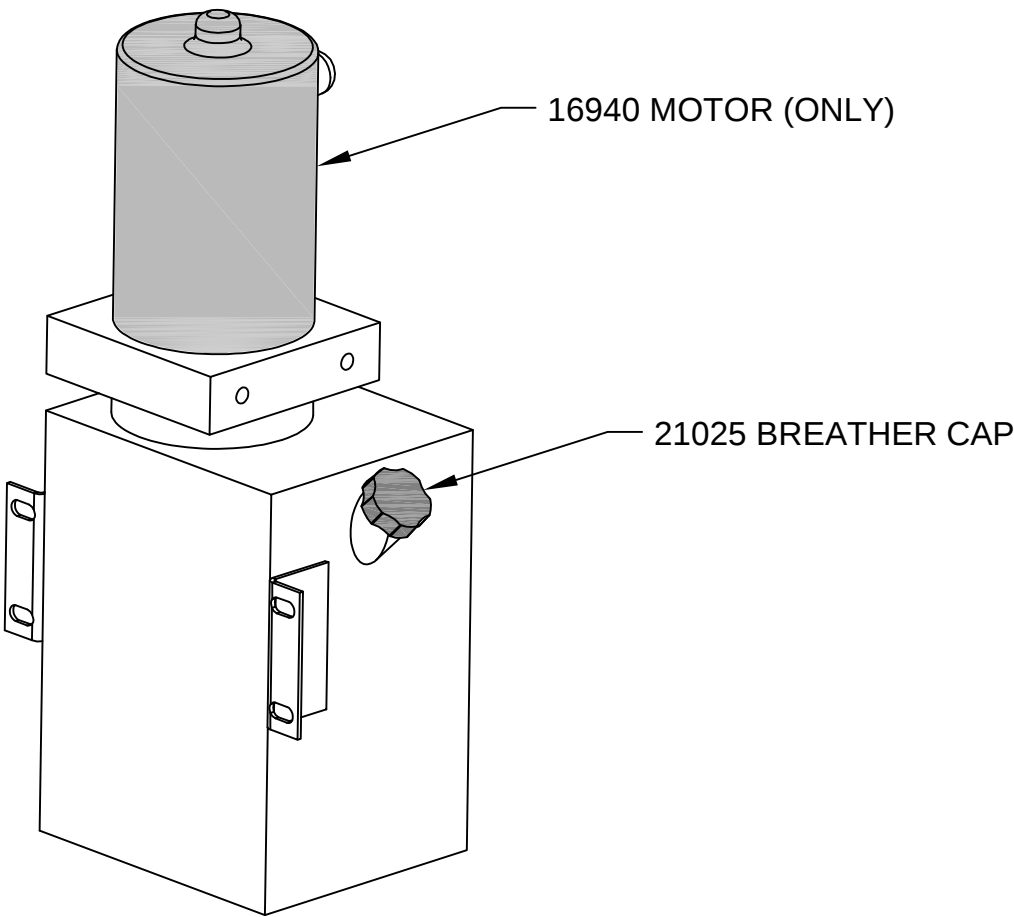
21981 BRAKE ASSY

23133 MOTOR

21214 CABLE WEDGE
(WIRE ROPE ANCHOR)



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



NOTE:
HYDRAULIC POWER UNIT SETTINGS ARE AS FOLLOWS:

- ▲ ET8/12K(X) PRESSURE = 2600 PSI

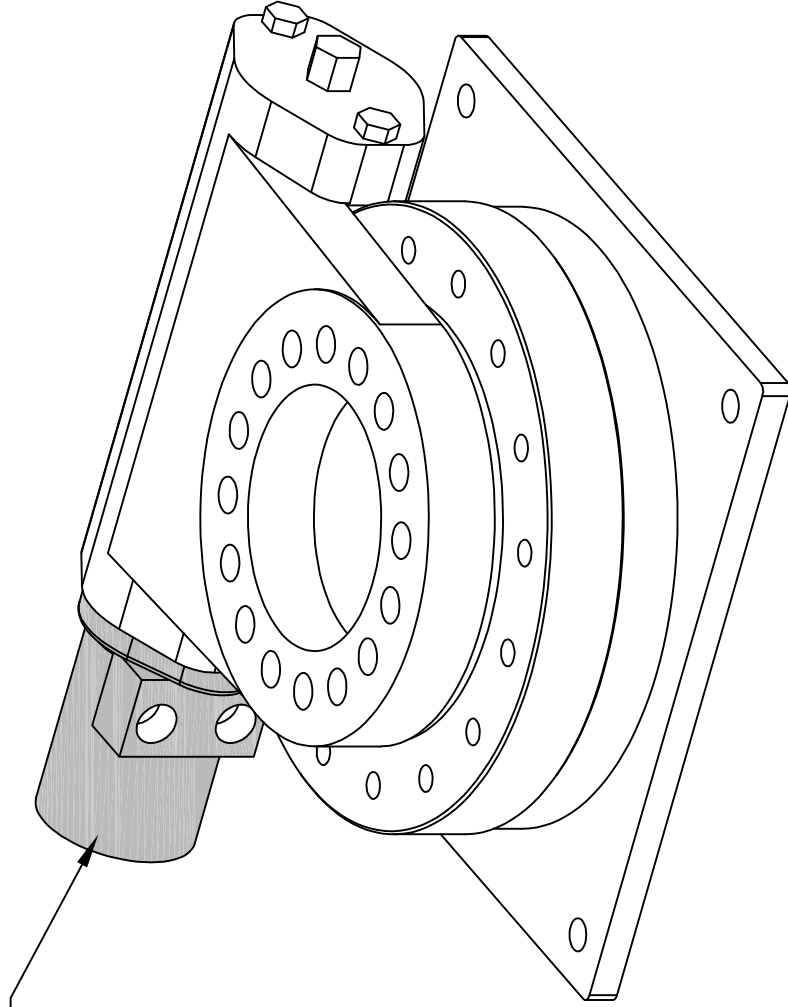


VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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

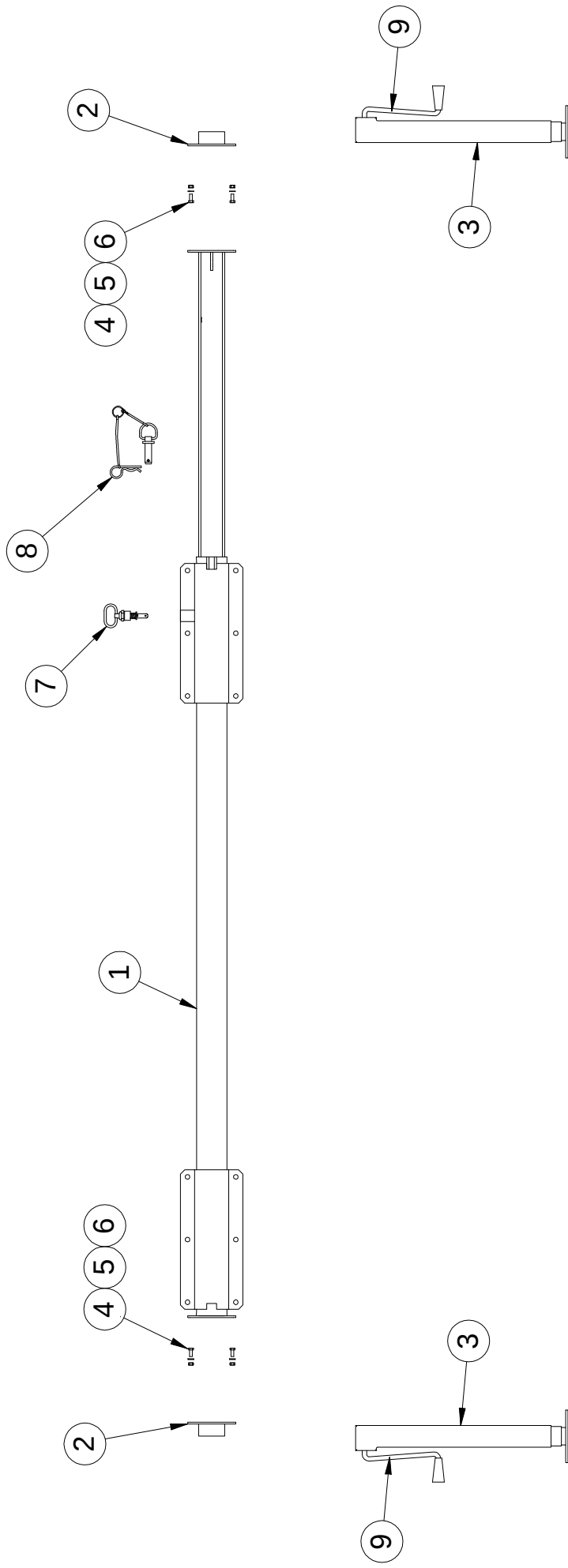
C400

SUPERSEDES

12-27-13A

ET8/12K & ET8/12/16/18KX ▲

21973



9	2	18586-HANDLE	HANDLE, CRAND-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

TITLE

REPLACMENT PARTS DRAWING & LIST

18500-CD MANUAL STABILIZERS

DATE

12-27-13D

SUPERSEDES

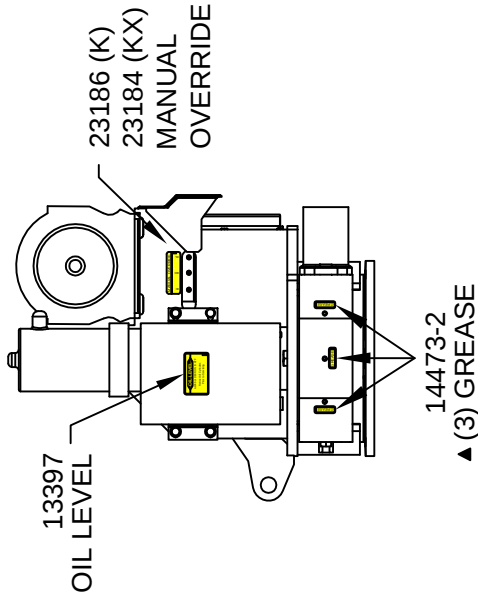
07-28-10C

SECTION

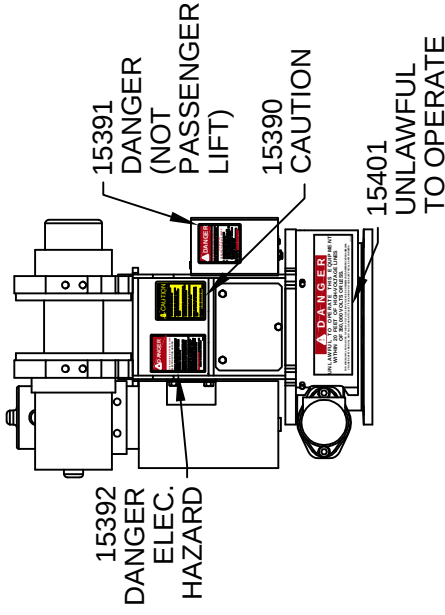
C400

22689

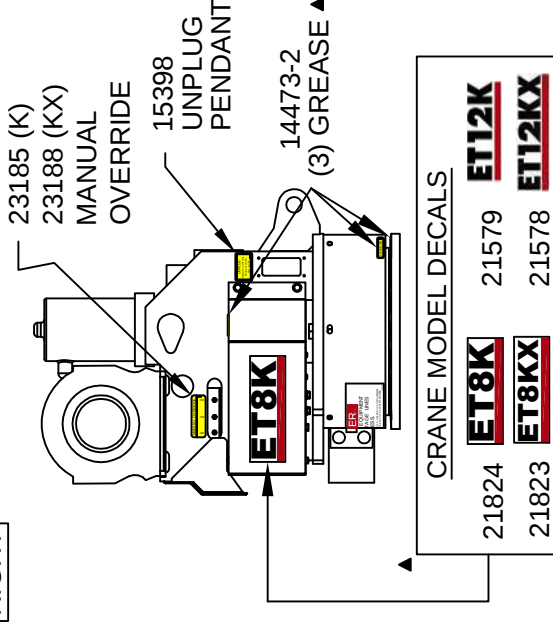
LEFT



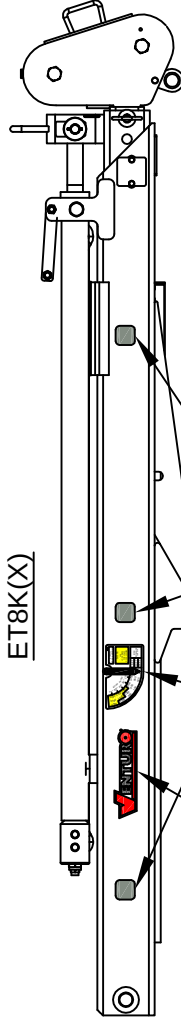
BACK



RIGHT



ET8K(X)



▲ 17389-4
SMALL
VENTURO

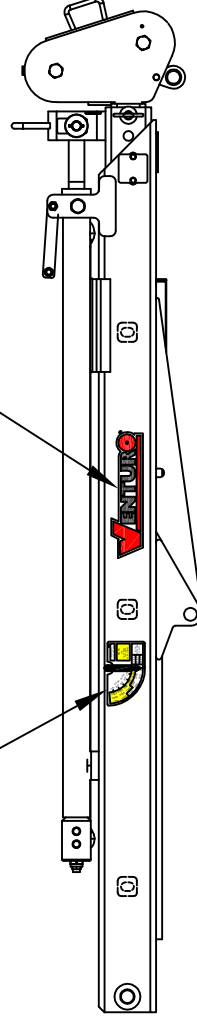
28024
(6) HOLE COVERS
(ET8KX ONLY)

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

TITLE
DECAL PLACEMENT

ET8/12K(X)

DATE
04-09-15E

SUPERSEDES
09-09-13D

SECTION
C400

21822

ET12K(X) FIELD SERVICE LABEL KITS

▲ 21586; FIELD SERVICE LABEL KIT, ET12KX

PART NO.	QTY.	DESCRIPTION
14473-2	6	DECAL; GREASE
17389	2	DECAL; VENTURO LOGO, MEDIUM
21576	1	DECAL; BOOM CAPACITY, RIGHT, ET12K(X)
21577	1	DECAL; BOOM CAPACITY, LEFT, ET12K(X)
21578	1	DECAL; MODEL, ET12KX
13397	1	DECAL; OIL LEVEL
23188	1	DECAL; MANUAL OVERRIDE, RIGHT
23184	1	DECAL; MANUAL OVERRIDE, LEFT
17813	1	DECAL; OVERLOAD SENSING SYSTEM
21604	1	FIELD SERVICE LABEL KIT LIST
21822	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL, VENTURO CRANES
15397	1	KIT; FIELD SERVICE LABELS

▲ NOTE:

APPLICABLE SERIAL NUMBERS: 68900 - CURRENT

▲ 21587; FIELD SERVICE LABEL KIT, ET12K

PART NO.	QTY.	DESCRIPTION
14473-2	6	DECAL; GREASE
17389-4	2	DECAL; VENTURO LOGO, SMALL
21576	1	DECAL; BOOM CAPACITY, RIGHT, ET12K(X)
21577	1	DECAL; BOOM CAPACITY, LEFT, ET12K(X)
21579	1	DECAL; MODEL, ET12K
13397	1	DECAL; OIL LEVEL
23185	1	DECAL; MANUAL OVERRIDE, RIGHT
23186	1	DECAL; MANUAL OVERRIDE, LEFT
17813	1	DECAL; OVERLOAD SENSING SYSTEM
21604	1	IDWG; FIELD SERVICE LABEL KIT LIST
21822	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL, VENTURO CRANES
15397	1	KIT; FIELD SERVICE LABELS

▲ NOTE:

APPLICABLE SERIAL NUMBERS: 61500 - 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

ET12K(X) ▲

DATE

04-16-15E

SUPERSEDES

04-26-13D

SECTION

C400

21604



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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