



INST-23033

*EM*AAA-***

PARTS & INSTALLATION MANUAL

ET30KX

Included in this manual:

ET30KX

- 5,000 lbs Electric Telescopic Service Crane
- 10-16 ft Powered w/ 16-20 ft Manual, Single-Stage Boom Extension
- 10-20 ft Powered, Dual-Stage Boom Extension

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



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

ET30KX

INST-23033 - 10/15/2025 (Rev: NEW1)

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12-00073_VNT1	WARRANTY PAGE

SECTION 100

DESCRIPTION

&

SPECIFICATIONS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

SPECIFICATIONS AND OPERATING FEATURES

ET30KX-10/20

SPECIFICATIONS

12 VOLT BATTERY OPERATED

30,000 FT-LBS OVERTURNING MOMENT (Or as limited by truck stability)

MOMENT OVERLOAD SYSTEM

TELESCOPIC BOOM	10 / 20
BOOM HYD ELEVATION	-8° TO 75°
BOOM HYD EXT	10 - 16 FT
BOOM MANUAL EXT	4 FT
CAPACITY	1500 LBS @ 20 FT REACH
	5000 LBS @ 3 TO 5 FT REACH
WIRE ROPE	5/16" DIA x 80 FT
PENDANT CORD LENGTH	25 FT

▲

WINCH - 2500 LBS SINGLE LINE CAPACITY
With Automatic Load Brake

ELECTRIC HYDRAULIC BOOM ELEVATION

ELECTRIC HYDRAULIC BOOM EXTENSION & RETRACTION - 6 FT STROKE

360° CONTINUOUS

REMOTE CONTROL PENDANT

25 ft Straight Cord with Four Environmentally Sealed Toggle Switches Protected by a Guard

MASTER DISCONNECT SWITCH

OUTRIGGERS AVAILABLE

Side Bracket Type Outriggers

Fold Away Type Outriggers

Pullout Type Outrigger System



MFG., INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DWG

ET30KX-10/20

DATE
8-7-09A

SUPERCEDES
9-19-08

SECTION
C120

21851a

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.

CONTROL PRIORITY SYSTEM

The design intent of the electrical and hydraulic system is such that some functions can be operated simultaneously, while others are meant to be operated individually. To summarize the control system see the explanations below.

- Winch up takes priority over all functions.
- Winch Down can be operated with any other single function.
- Hydraulic functions (Rotation Right, Rotation Left, Boom Up, Boom Down, Boom Out and Boom In) are designed to function one at a time.

CABLE DRUM AND SHEAVE DIAMETERS

The drum on the ET30KX is 5-5/16" in diameter which provides the first layer wire rope pitch diameter 18 times the rope diameter as required by ANSI B30.5 Cranes Standards. The cable sheaves are either 16 (snatch block) or 18 (boom) times the cable diameter which likewise conforms. ▲ ▲

MISCELLANEOUS

A. CAPACITY INDICATOR

Select boom reach and angle allowable for load by using capacity indicator arrow and chart on either side of boom.

B. BATTERY HOOKUP

A parallel auxiliary battery should be installed near the crane as shown on Dwg. 19947 under "RECOMMENDED INSTALLATION". The parallel auxiliary battery minimum rating should be 450 Cold Cranking Amps (at 0° F) and 100 reserve capacity, or 78 plates and 70 amp hours.



MFG., INC.
CINCINNATI, OHIO

TITLE

INSTALLATION DWG

DATE

8-10-09A

SECTION

C120

ET30KX-10/20

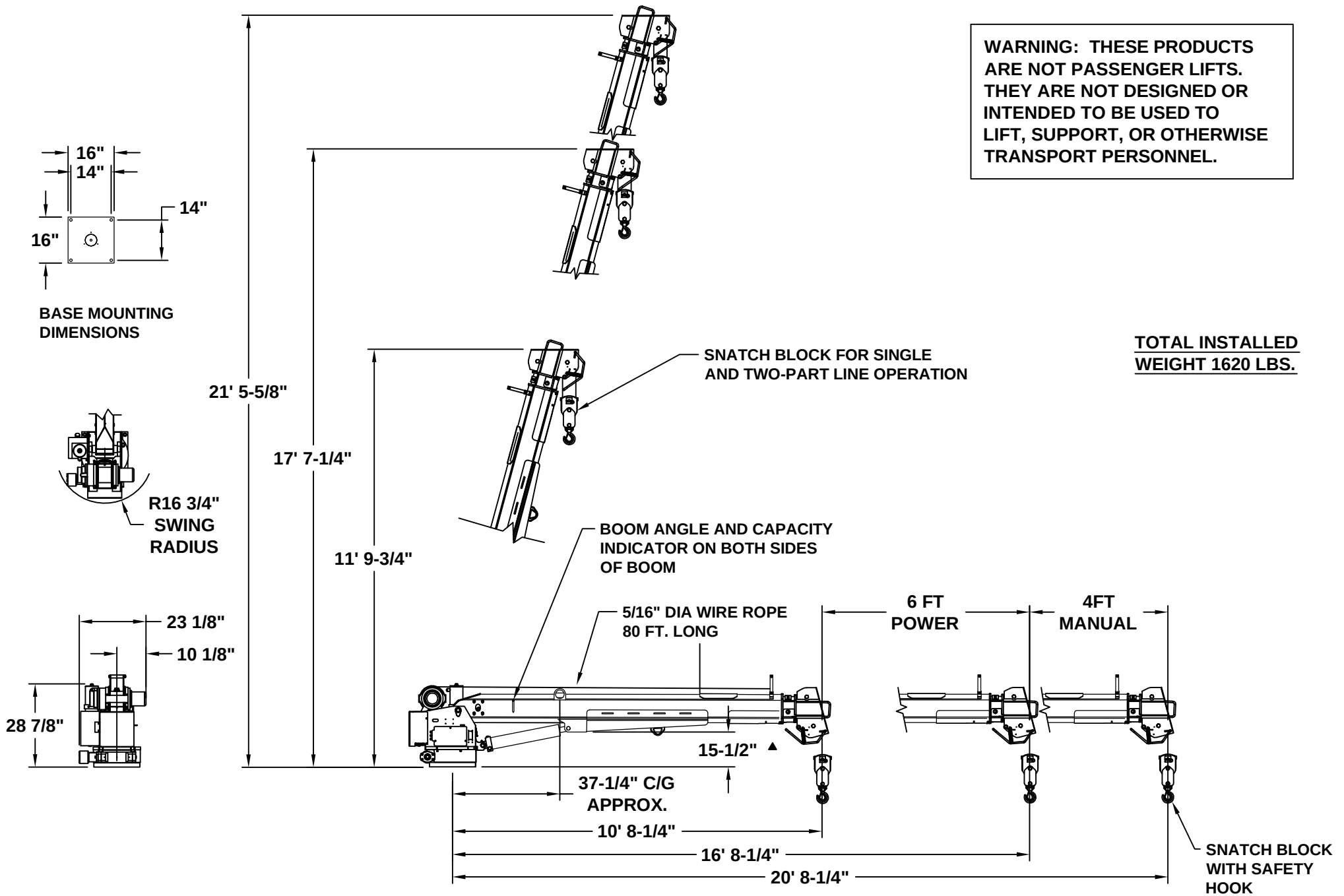
SUPERCEDES

9-19-08

21851b

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

**TOTAL INSTALLED
WEIGHT 1620 LBS.**



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DRAWING

ET30KX - 10/16/20 BOOM

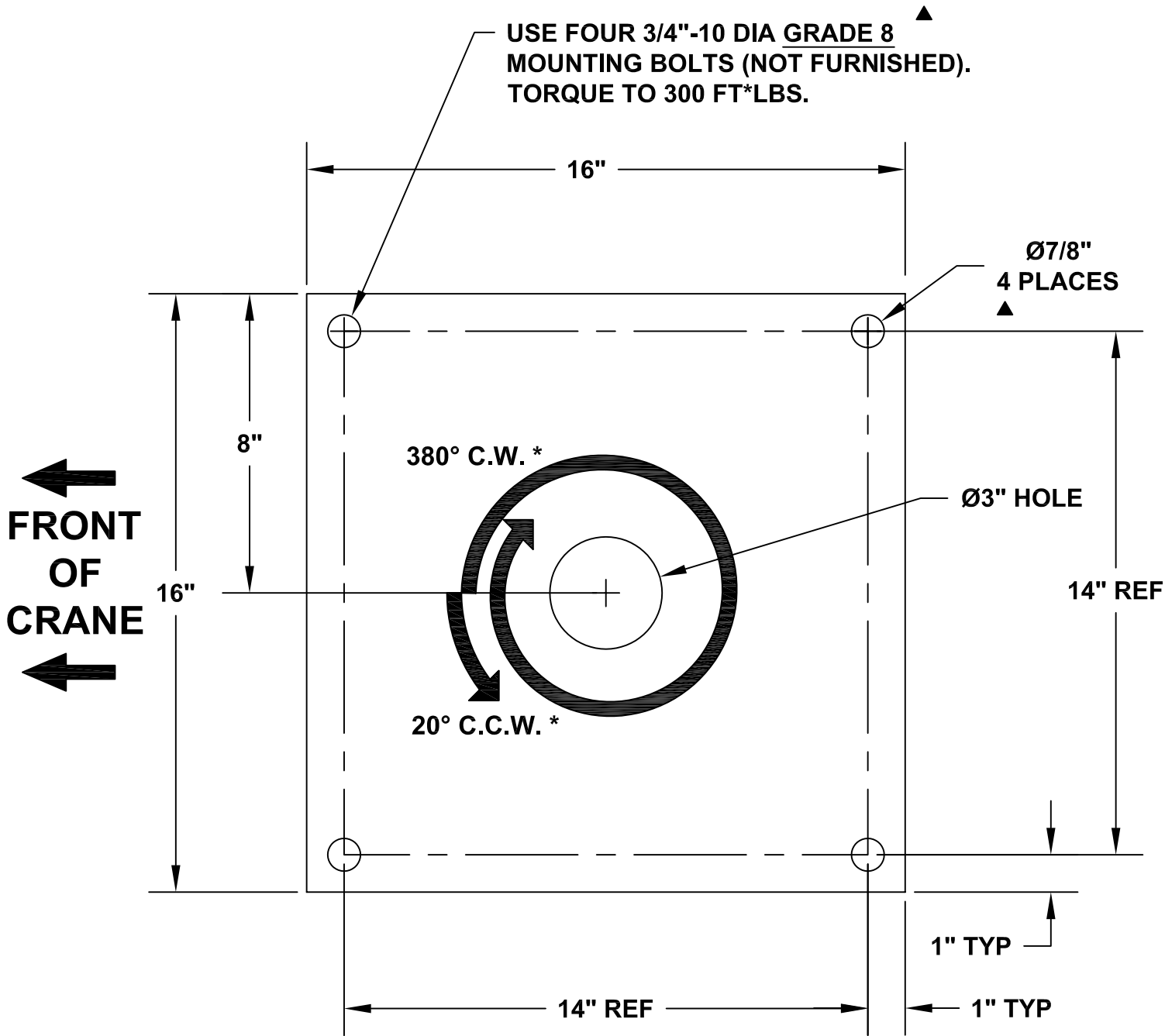
DATE
12-14-11B

SUPERSEDES
8-7-09A

SECTION
C100

21092

ET/HT25/30/36KX BASE MOUNTING DIMENSIONS



* Rotation limits typically apply to HT cranes only. ET cranes generally have continuous rotation.



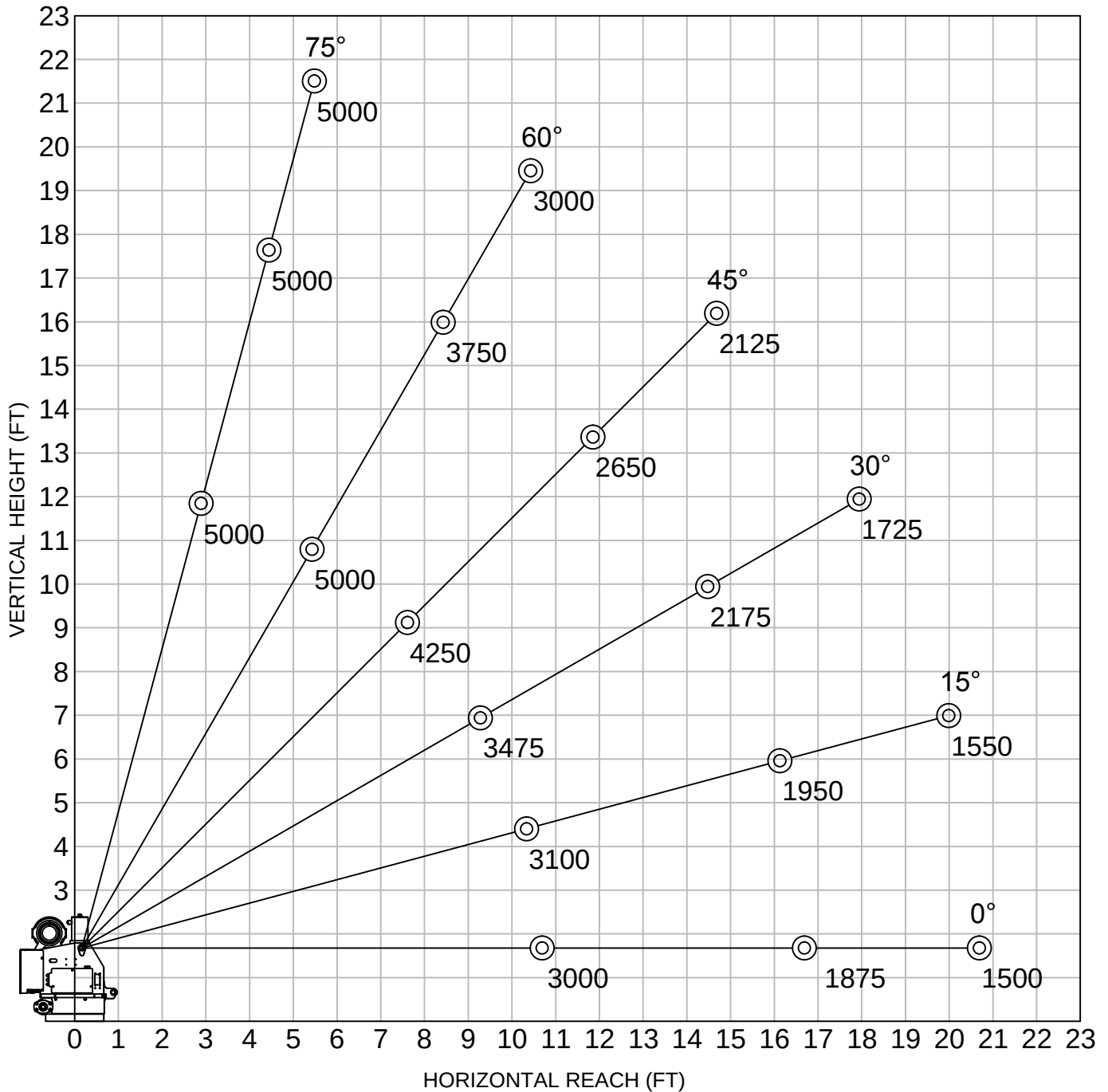
MFG., INC.
CINCINNATI, OHIO

TITLE	DATE	SECTION
BASE MOUNTING	02-13-12E	C100
ET/HT25/30/36	SUPERSEDES 12-14-11D	21080

ET/HT30KX, 10'-16'-20' 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 2500 LBS
- 2 PART LINE FOR LOADS OF 2500 LBS AND GREATER

WEIGHT OF LOAD BLOCK = 34 LBS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAXIMUM LOAD CAPACITY
ET/HT30KX, 10'-16'-20' BOOM

DATE
05-03-16C
SUPERSEDES
04-30-13B

SECTION
C100
21091

SECTION 150

SAFETY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

CRANE SAFETY AND HAZARDS

CAUTIONS

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

DANGER

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

YOU MUST NOT OPERATE THIS CRANE, UNLESS:

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

ELECTROCUTION HAZARD

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

OVERLOAD SENSING SYSTEM - STANDARD ON ALL CRANES

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

NOTICE - WARRANTY VOID IF DISCONNECTED

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

DO NOT DISCONNECT THIS SYSTEM



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

SAFETY & HAZARDS

DATE

01-29-15K

SECTION

C150

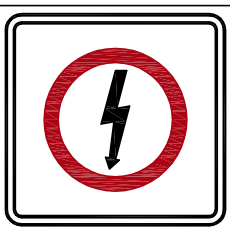
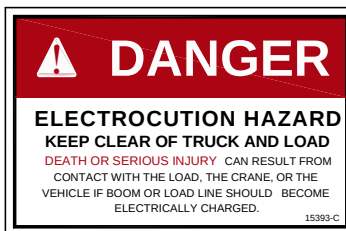
ELECTRIC CRANES

SUPERSEDES

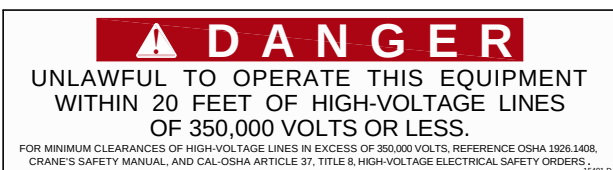
12-20-13J

850711

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

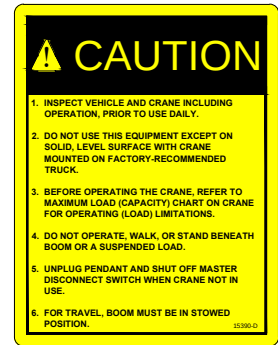
DECAL #: 15390

DESCRIPTION: CAUTION, INSPECT VEHICLE & CRANE...

PURPOSE: TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



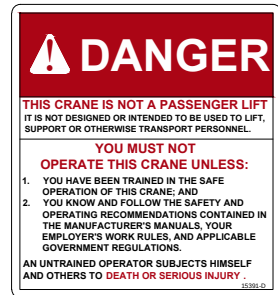
DECAL #: 15391

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



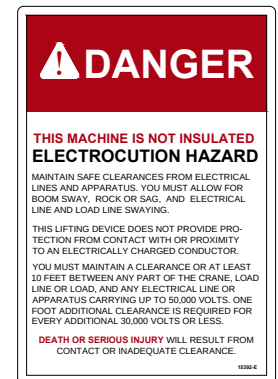
DECAL #: 15392

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



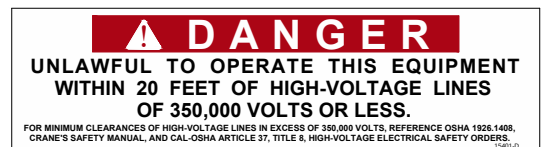
DECAL #: 15401

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



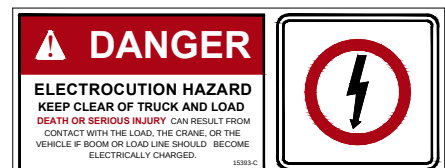
DECAL #: 15393

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.: 15513

DECAL: MASTER DISCONNECT SWITCH

FUNCTION: To inform the operator of location and operation of master disconnect switch.

QUANTITY: 1

PLACEMENT: On master disconnect switch bracket.



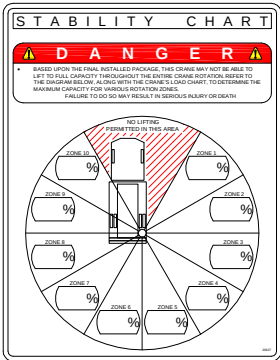
PART NO.: 20927

DECAL: CRANE STABILITY

FUNCTION: To inform the operator of the crane's lifting capacity throughout the entire rotation.

QUANTITY: 1

PLACEMENT: In prominent location, so it is easily seen and readily identifiable.



▲



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
SAFETY DECALS

CRANES

DATE
06-06-14C

SUPERSEDES
04-02-13B

SECTION
C150

21384

PART NO.: 14473-2

DECAL: CONDUCTIVE GREASE

FUNCTION: To show the operator where to apply grease.

QUANTITY: Varies

PLACEMENT: Near grease fittings.



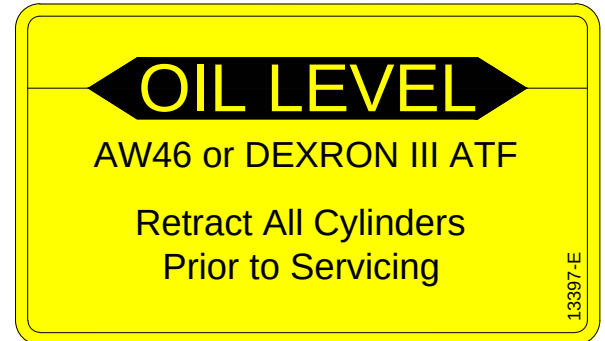
PART NO.: 13397

DECAL: OIL LEVEL

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

QUANTITY: 1

PLACEMENT: Side of hydraulic power unit.



PART NO.: 15398

DECAL: UNPLUG REMOTE CONTROL

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

QUANTITY: 1

PLACEMENT: Near pendant socket.



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
DECALS

ET CRANES

DATE
11-12-19E

SUPERSEDES
12-23-13D

SECTION
C150

21354

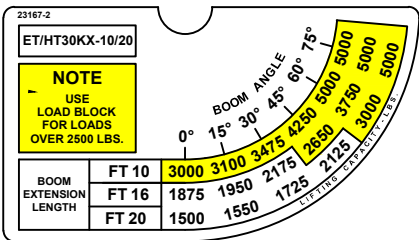
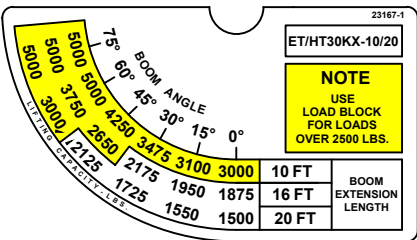
PART NO.: 23167-1 & 23167-2

DECAL: CRANE CAPACITY

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

QUANTITY: 1 each

PLACEMENT: One on each side of boom.



PART NO.: 23168

DECAL: MODEL NUMBER (ET30KX)

FUNCTION: To show the model of the crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.



PART NO.: 19788

DECAL: PROPORTIONAL DECAL-1

FUNCTION: To show the crane has proportional feature.

QUANTITY: 2

PLACEMENT: One on each side of boom.



SECTION 200

INSTALLATION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

!! IMPORTANT !!

ADEQUATE WIRING IMPERATIVE FOR PROPER OPERATION

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

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE

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

* INCLUDES GROUND CABLE

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

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

CABLE & BATTERY

DATE

07-30-18X

SECTION

C200

ELECTRIC CRANES

SUPERSEDES

09-27-17W

711105

RECOMMENDED CIRCUIT BREAKER TABLE

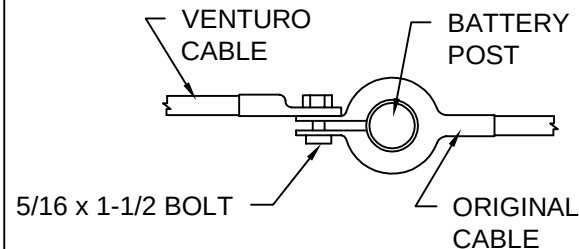
CRANE	DESCRIPTION	PART NO.
CT310KX	250 AMP, MAN RESET	22946-250
DT7	250 AMP, MAN RESET	22946-250
CE-1500-FB	150 AMP, MAN RESET	22946-150
CE6K	150 AMP, MAN RESET	22946-150
CT200X	250 AMP, MAN RESET	22946-250
ET6K	250 AMP, MAN RESET	22946-250
ET8/12K(X)	250 AMP, MAN RESET	22946-250
ET12KXP	300 AMP, MAN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

BATTERY REQUIREMENTS

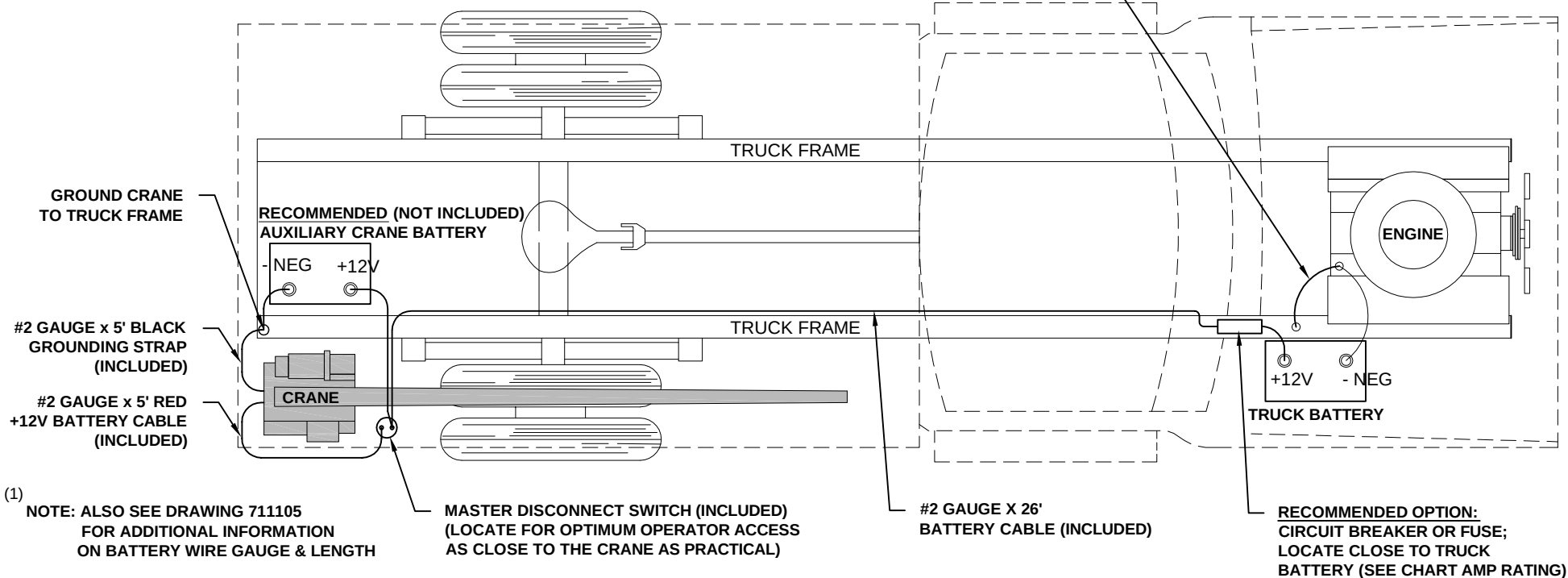
- 12 VOLT VEHICLE BATTERY REQUIREMENTS
 - 625 COLD CRANKING AMPS (AT 0° F)
 - 160 MINUTES RESERVE CAPACITY
 - 102 PLATES, 105 AMP-HR
- (1) • 12 VOLT AUXILIARY BATTERY REQUIREMENTS
 - SEE MINIMUM WIRE GAUGE AND BATTERY SIZE

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

RECOMMENDED BATTERY TERMINAL ATTACHMENT



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

BATTERY CABLE & COMPONENT INSTALL

ET CRANES

DATE

09-03-20M

SUPERSEDES

07-30-18L

SECTION

C200

15660

STABILITY TEST - ET/HT30-20' SERIES

Overview

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

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

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

Testing Procedure

1. Locate the truck on firm, level ground and set parking brake.
2. Fully deploy stabilizers, making sure they are firmly in contact with supportive ground; use stabilizer pads as required. The tires of the truck should remain in full contact with the ground.
3. Inspect wire rope and other key components of crane (consult owners manual for more information).
4. Conduct an operational check of all crane functions.
5. Locate the Overload Pressure Switch at the base of the elevation cylinder
 - 5.1. Disconnect the black & white wires from the housing and then connect the black & white wires together to by-pass the Overload Pressure Switch for the stability test. **Note: The black & white wires MUST be reconnected to the Overload Pressure Switch after the stability test has been completed.**
6. Use a **Test Weight** weighing a **minimum** of **1765 lbs.**, (includes load block weight of 34 lbs.) to a **maximum of 1825 lbs.**
7. Position the boom level and fully retracted.
8. Referring to the Stability Chart (drawing 20907) rotate the crane to a position between 1 and 2 o'clock (truck cab is facing 12 o'clock) to begin testing.
9. Use the winch to lift the Test Weight; DO NOT allow the weight to be more than 6" off the ground at any time during testing (for safety).
10. Using a weight weighing between **1765 to 1825 lbs.**, extend the boom slowly, until one of two conditions occur:
 - 10.1. Full extension is reached - Mark the ZONE in question **100%**
 - 10.2. The VLC system stops the boom extension - Mark the ZONE in question **100%**
 - 10.3. The truck becomes unstable i.e. a tire lifts off the ground
 - 10.3.1. Retract the boom until at least one tire on each corner of the truck is making contact with the ground
 - 10.3.2. Use the formula below to determine the allowable **% of Rated Capacity** for the ZONE in question.
11. Note: The **"Max Stable Reach in inches"** is measured from the **center of rotation** of the crane housing to the **lifting load hook**.

$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{248} \times 100$$

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

STABILITY TEST

DATE

11-23-21D

SECTION

C200

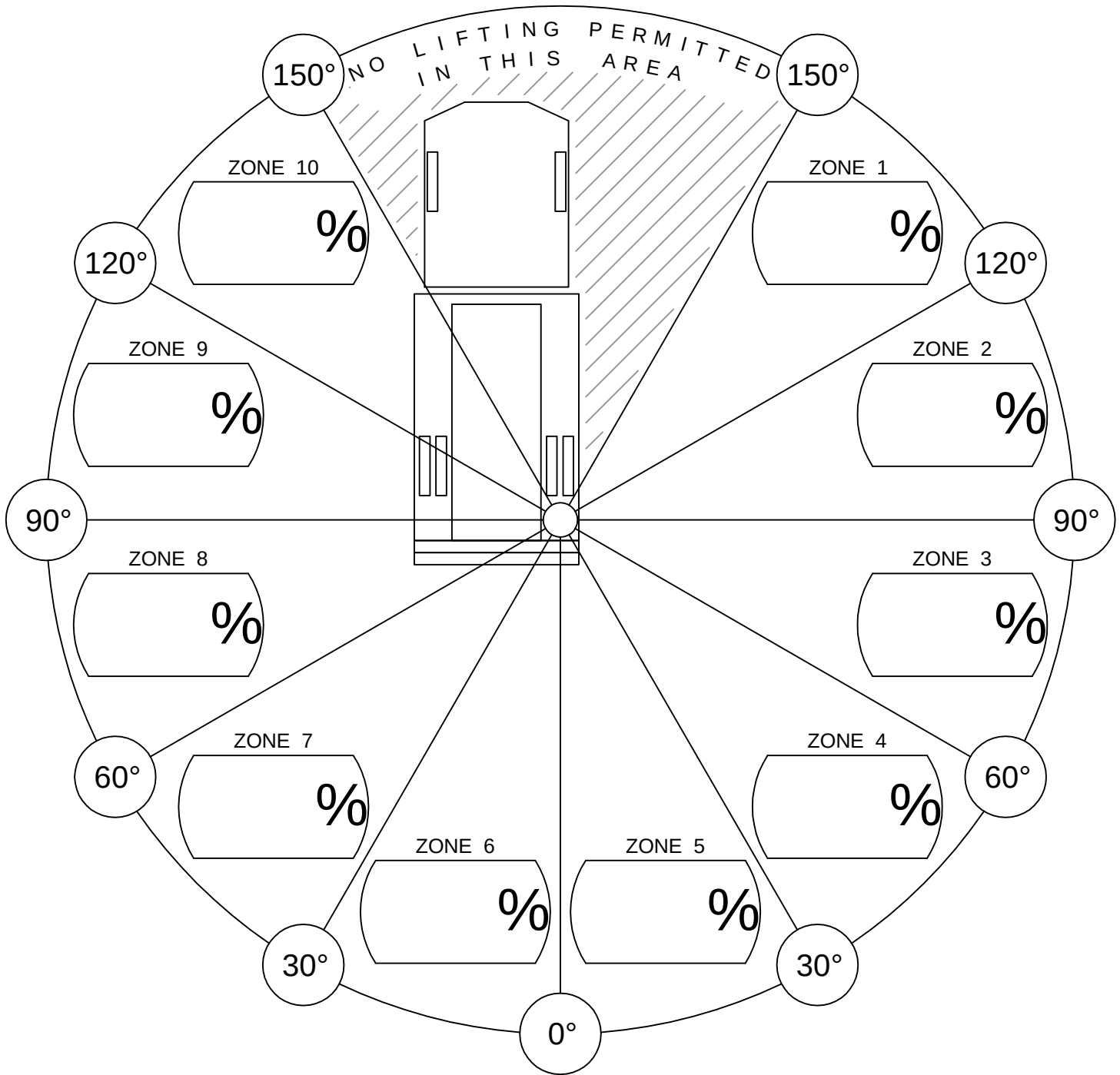
ET/HT30-20' SERIES

SUPERSEDES

02-26-21C

20906-30

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

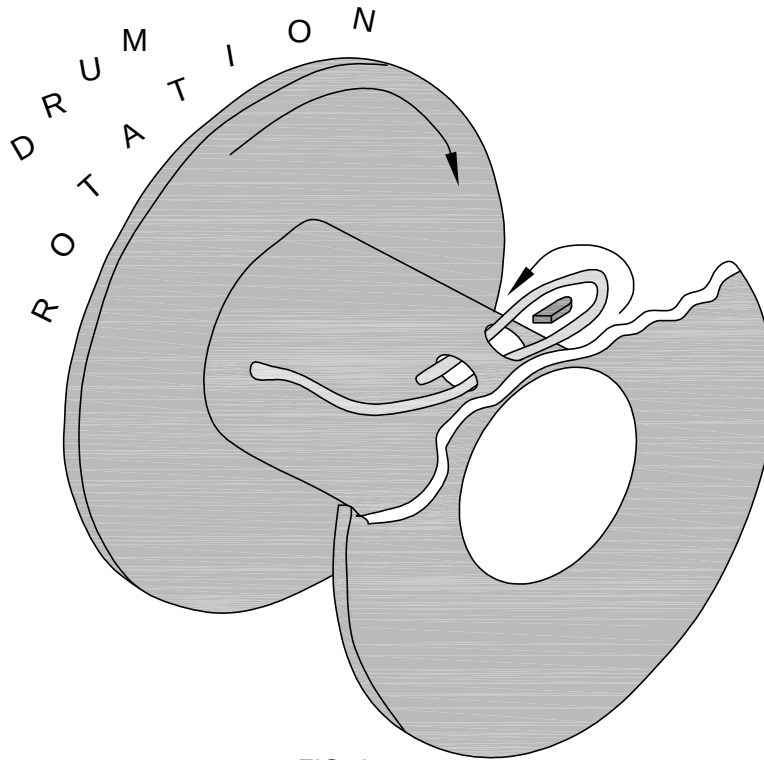


FIG. 1

- 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

SECTION 300

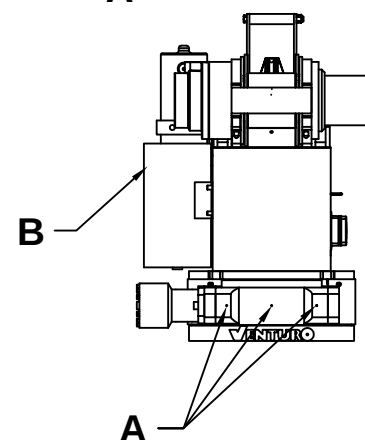
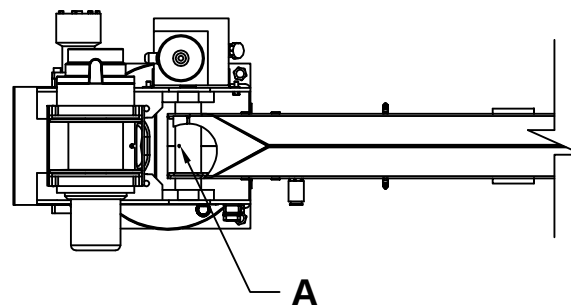
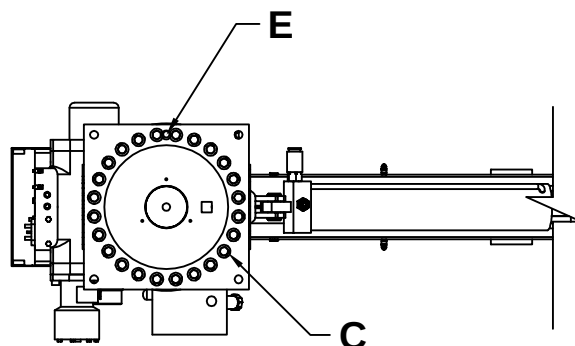
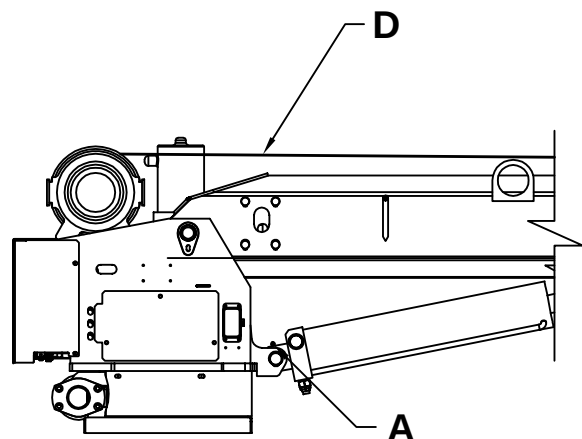
MAINTENANCE

&

SERVICE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO



Location	Service Required	Note		Service Interval
A	Grease fitting With Pressure Grease Gun	USE ELECTRICALLY CONDUCTIVE GREASE Example: Fuch's Renolit Aluminum Complex Grease P/N 155250-2 (or equivalent).		Time of Truck Service
B	Fill Oil Reservoir to Oil Level with Boom Down	Use Dextron III ATF or ISO Grade AW 46 for Ambient Temperatures Between -22° F and 30° F	Use ISO 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	Check Torque of bolts	Bolts should be torqued to 60 ft-lbs		Time of Truck Service
D	Check Wire Rope and Hook	Rope should be free of kinks and fraying		Time of Truck Service
E	Grease Fitting With Pressure Grease Gun	USE ELECTRICALLY CONDUCTIVE GREASE Example: Fuch's Renolit Aluminum Complex Grease P/N 155250-2 (or equivalent).		Every 6 months



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE

LUBRICATION & MAINTENANCE CHART

ET25/30/36KX(X)

DATE

07-29-19A

SUPERSEDES

08-11-09

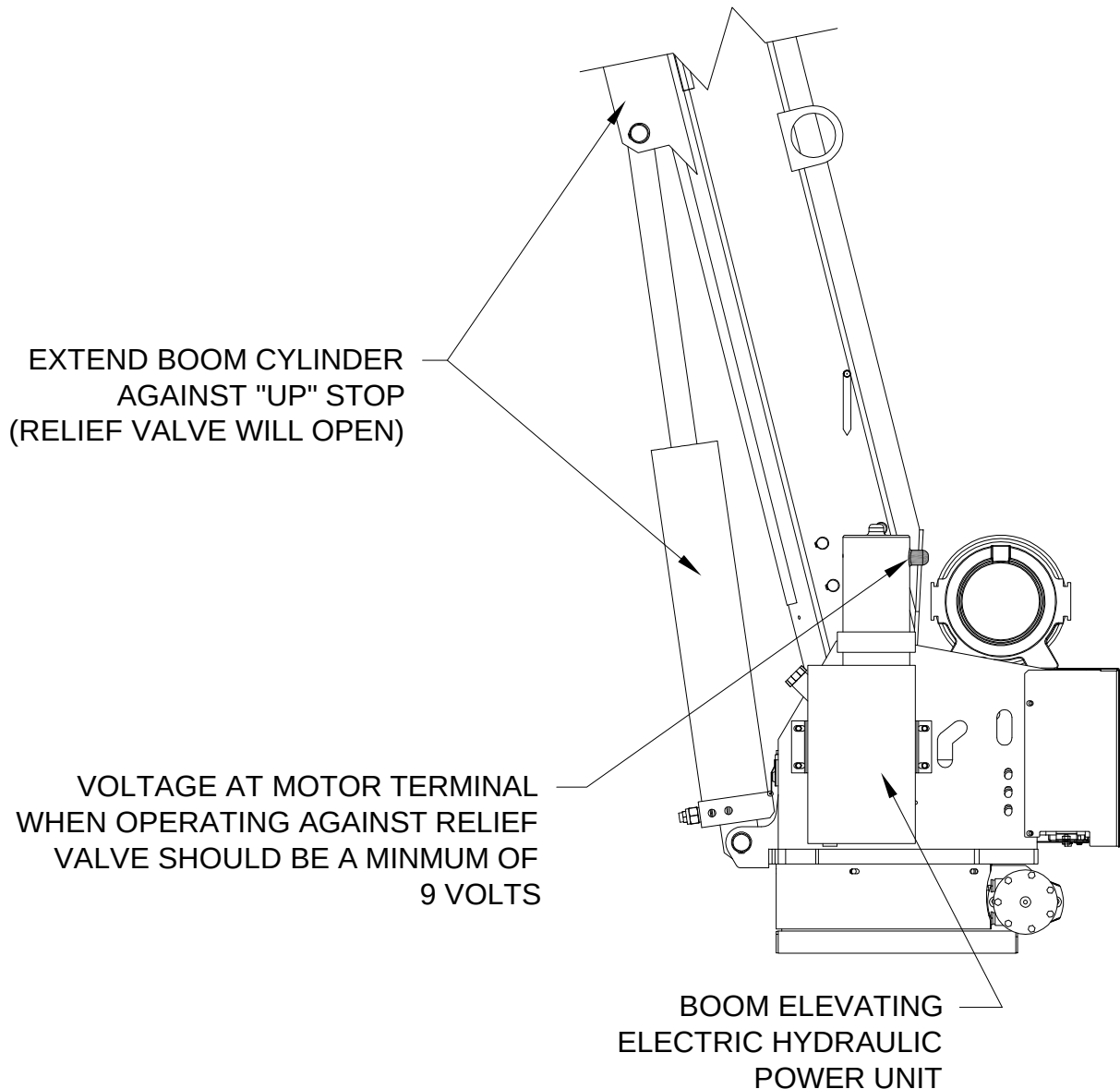
SECTION

-

21878

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

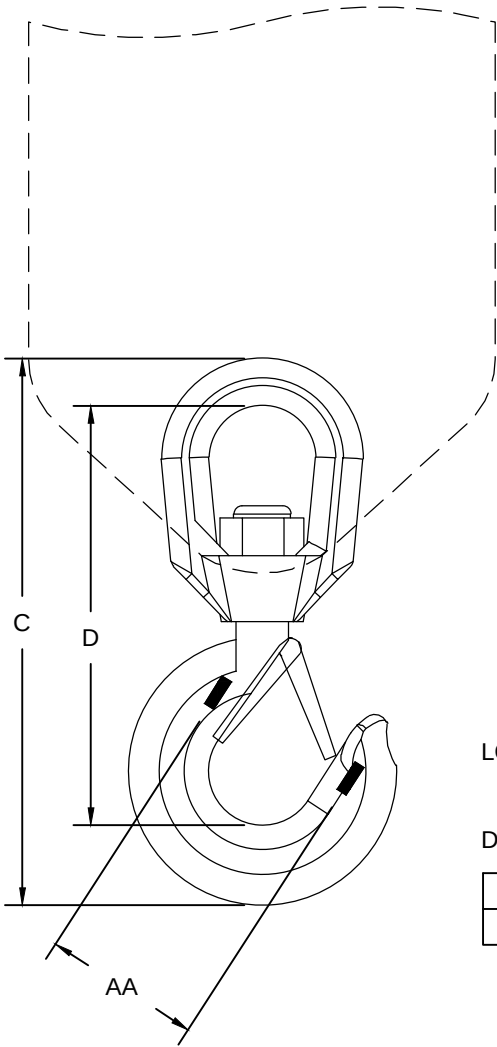
WIRE ROPE ASSEMBLY

WIRE ROPE:
5/16" DIA, 80' LONG
GAC 7X19 XIP-RHRL-IWRC, SB 9800 LBS
P/N: 27668-5/16-80



TERMINATES IN THIMBLE
NO HOOK

LOAD BLOCK ASSEMBLY



LOAD BLOCK HOOK:
RATING: 3 TONNE (6615 LBS)
DIMENSIONS:

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
WIRE ROPE & HOOK SPECIFICATIONS

ET16/18KXX-20, ET/HT25/30KX

DATE
11-17-23D

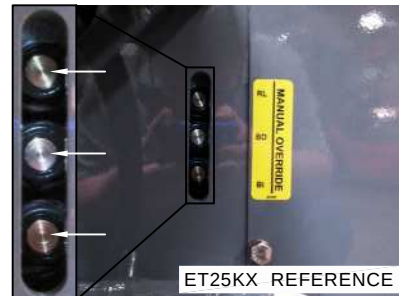
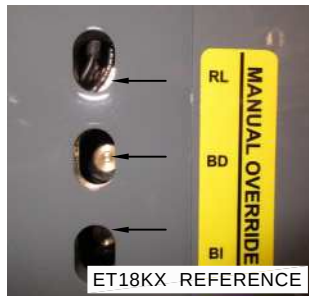
SUPERSEDES
03-12-20C

SECTION
C300

23228

MANUAL OVERRIDE INSTRUCTIONS
ET NON-PROPORTIONAL SERIES CRANES ▲

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



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

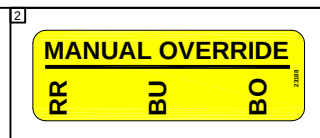
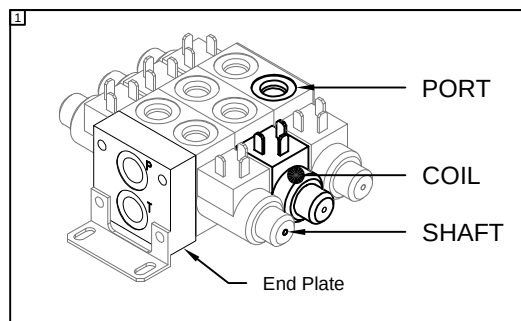
2-STATION FUNCTIONS:

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

3-STATION FUNCTIONS include previous functions, plus:

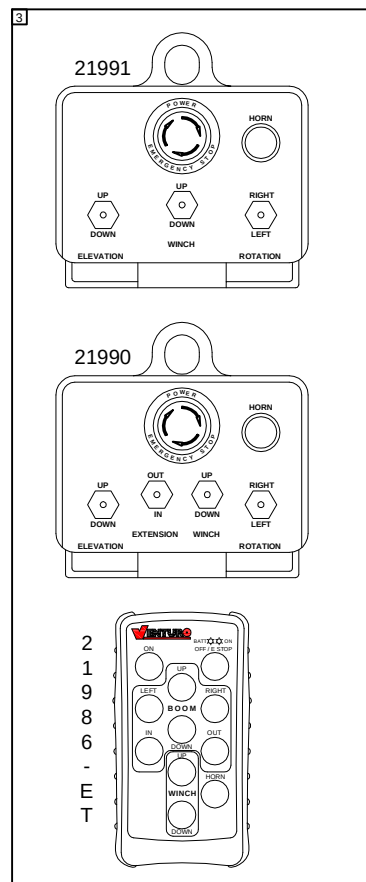
BI = Boom In BO = Boom Out

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



Procedure:

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



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAN. OVERRIDE INSTR.
ET NON-PROP CRANES

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

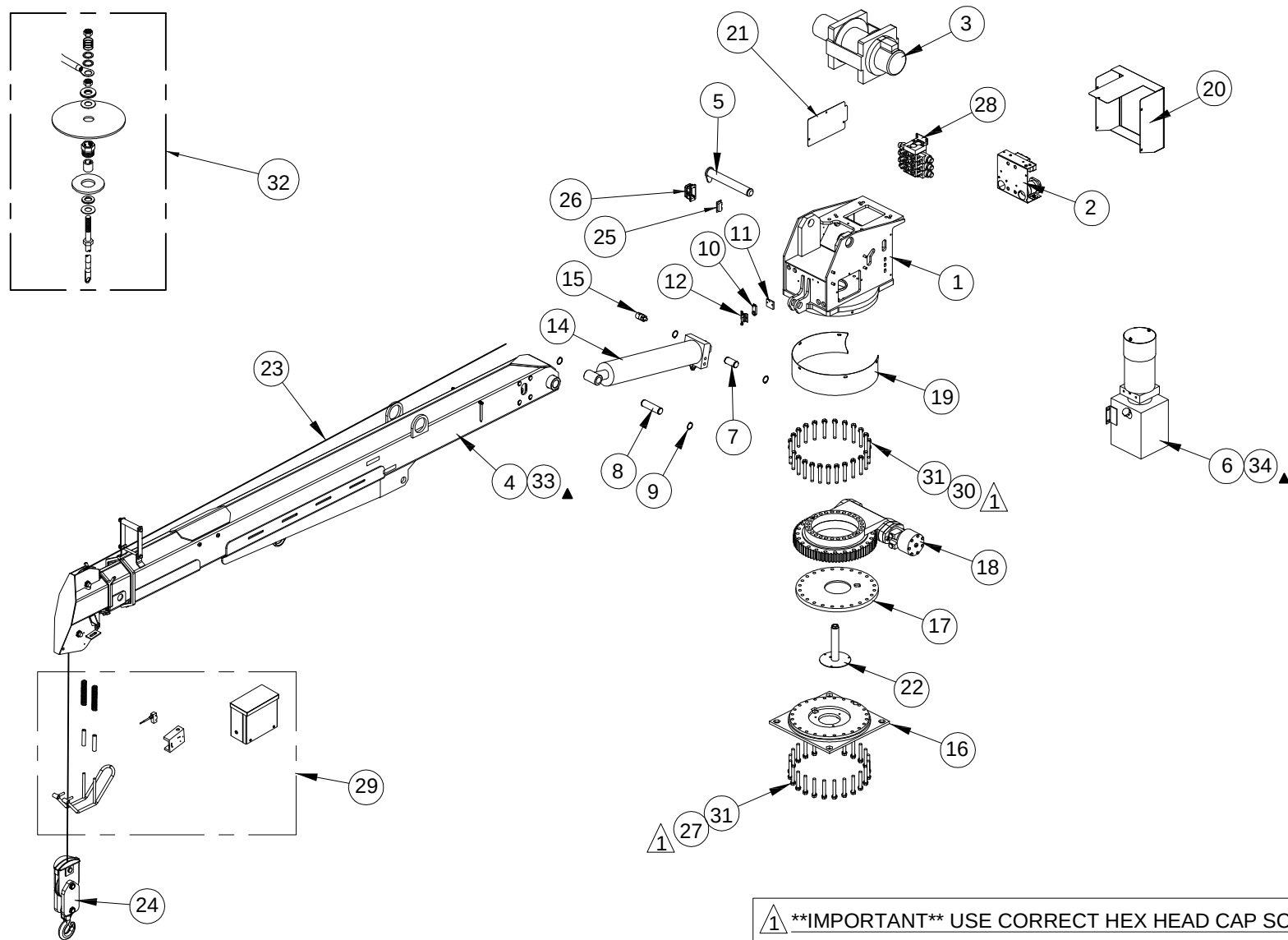
SECTION
C200
23084

SECTION 400

REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO



1 ****IMPORTANT** USE CORRECT HEX HEAD CAP SCREW**

- ITEM # 30, P/N !HHCSM12175090-8.8 (90MM LONG) FOR 'TOP' OF SLEWING RING
- ITEM # 27, P/N !HHCSM12175080-8.8 (80MM LONG) FOR 'BOTTOM' OF SLEWING RING

REPLACEMENT PARTS LIST - REF 21855



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS DRAWING

ET30KX SERIES CRANES

DATE
03-08-17F

SUPERSEDES
01-29-13E

SECTION
C400

21854

34	1	27512	HYDRAULIC POWER UNIT; DUAL-STAGE BOOM
33	1	27197	BOOM FINAL ASS'Y (DUAL-STAGE)
32	1	16780-1	SWIVEL TERMINAL ASS'Y.
31	50	!LWSH-050	LOCK WASHER; 1/2"
30	26	!HHCSM12175090-8.8	HHCS; 12MM-1.75MM X 90MM LG, GR. 8.8
29	1	27738	ANTI-2-BLOCK; MECHANICAL ASS'Y.
28	1	28801	VALVE BLOCK - 3-SPOOL
27	24	!HHCSM12175080-8.8	HHCS; 12MM-1.75MM X 80MM LG, GR. 8.8
▲ 26	1	22481	SOCKET CASE W / HOOD- 16+1 POLE
▲ 25	1	22482	FEMALE (HOLES) INSERT-16+1 POLE
24	1	27667	LOAD BLOCK; 6000 LBS.
23	1	27668-5/16-80	WIRE ROPE; 5/16" X 80 FT.
22	1	27568	CANDLESTICK ASS'Y.; SWIVEL PIGTAIL
21	1	27000	SIDE COVER; HOUSING
20	1	27600	REAR COVER; HOUSING
19	1	27186	COVER; SLEWING RING
18	1	21418	SLEWING RING
17	1	27520H	SPACER
16	1	27520M-2-R	WELDED ASS'Y.; BASE
15	1	17460-2700-21	OVERLOAD PRESSURE SWITCH
14	1	21752	ELEVATION CYLINDER
13	1	19269	CABLE CLAMP; 1/4"
12	1	19917	SWITCH BRACKET; BOOM SHUT-OFF
11	1	20896	MOUNTING BLOCK; BOOM SWITCH
* 10	1	19918	SWITCH; BOOM SHUT-OFF
9	4	!SRNG-125	RETAINING RING; 1/4" SHAFT DIA.
8	1	18761	PIVOT PIN; ELEVATION CYLINDER
7	1	18762	PIVOT PIN; ELEVATION CYLINDER
6	1	27009	HYDRAULIC POWER UNIT; SINGLE-STAGE BOOM
5	1	27003	PIVOT PIN; MAIN BOOM PIVOT
4	1	27198	BOOM FINAL ASS'Y (SINGLE-STAGE)
3	1	19813	ELECTRIC WINCH
2	1	23154-2	ELECTRICAL COMPONENT ASS'Y.
1	1	27184	WELDED ASS'Y.; HOUSING
ITEM NO.	QTY.	PART NO.	DESCRIPTION

(*) NOT ILLUSTRATED

REFERENCE REPLACEMENT PARTS DRAWING 21854



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS LIST

ET30KX SERIES CRANES

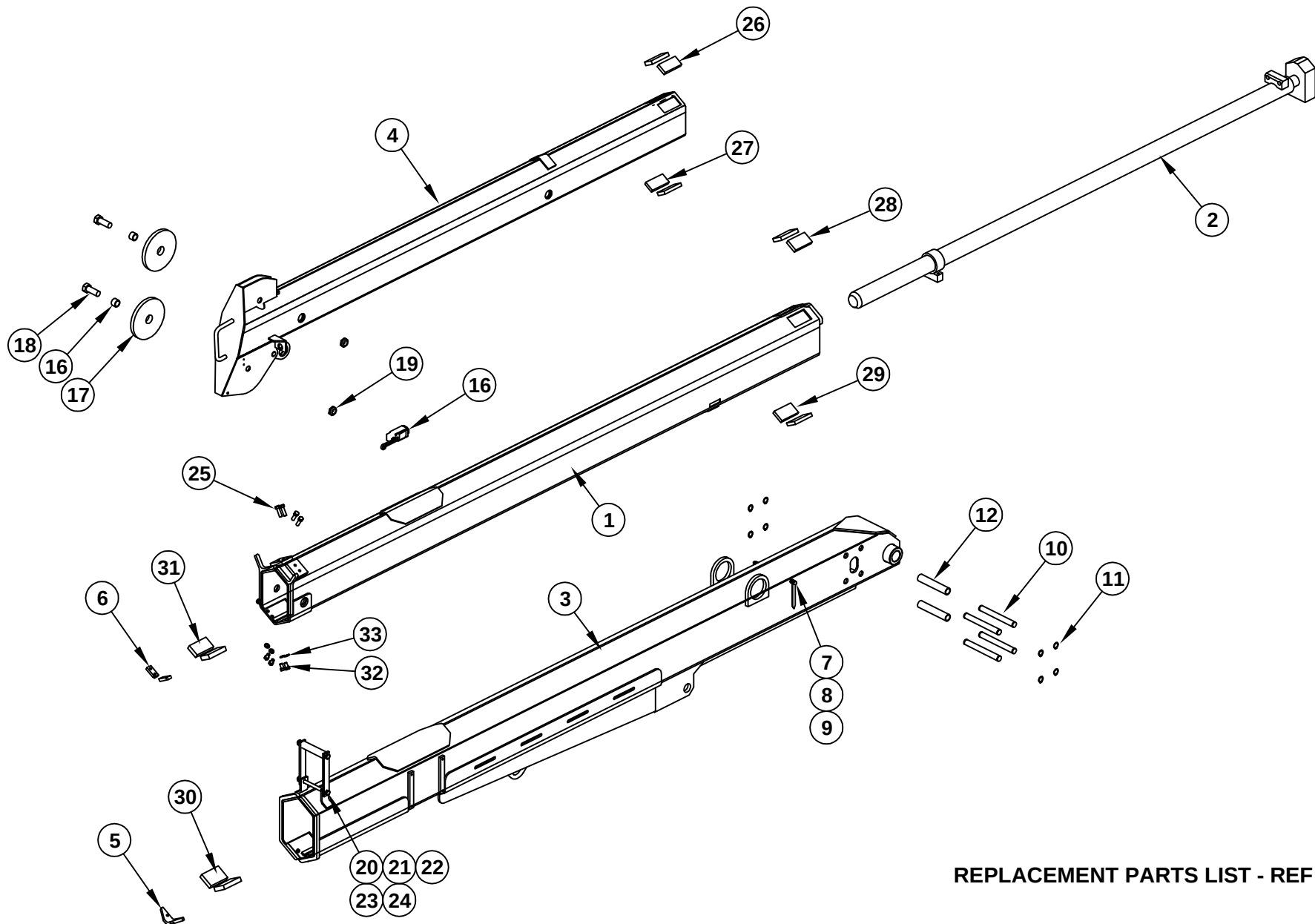
DATE
10-14-25K

SUPERSEDES
06-26-25J

SECTION
C400

21855

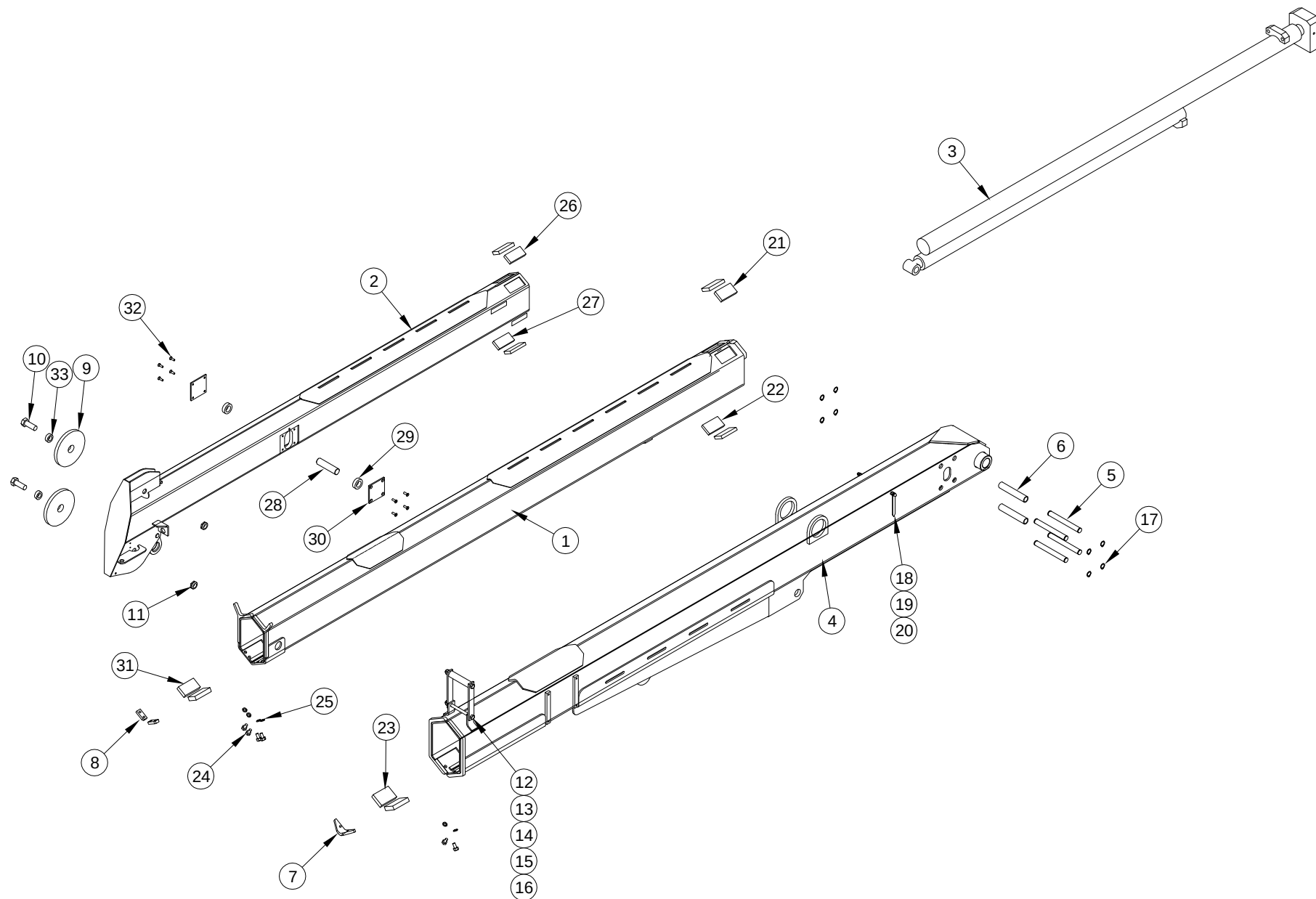
27198 BOOM REPLACEMENT PARTS



REPLACEMENT PARTS LIST - REF 21199

33	6	!LWSH-038	LOCK WASHER 3/8"
32	6	!HHCS03816063	HEX HEAD CAP SCREW 3/8-16 X 5/8 LG
31	2	23217-10	UHM W PAD
30	2	23217-3	UHM W PAD
29	2	23217-9	UHM W PAD
28	2	23217-8	UHM W PAD
27	2	23217-7	UHM W PAD
26	2	23217-6	UHM W PAD
25	4	!CACS03816075	C-SINK CAP SCREW 3/8-16 X 3/4 LG
24	2	!LNUT-04414	NYLON INSERT LOCK NUT - 7/16-14
23	1	21560	ROLLER,UHM W GUIDE
22	1	21936	FLAT,MOUNT;WIRE ROPE GUIDE
21	1	!HHCS04414550	HHCS - 7/16-14 X 5-1/2 LG
20	1	21935	WIRE-ROPE GUIDE WELDED
19	2	!LNUT-07510	LOCKNUT 3/4-10
18	2	17059-6	SHEAVE AXLE 3/4 X 2 W/ 1" SHANK
17	2	27001	SHEAVE - BOOM
16	2	23924	SPACER - SHEAVE
15	-	-	-
14	-	-	-
13	-	-	-
12	2	21498	EXTENSION CYLINDER ROLLER
11	8	!SRNG-075	RETAINING RING - 3/4" SHAFT DIA.
10	4	21497	THRUST PIN - EXTENSION CYLINDER
9	2	!ANUT-02520S	ACORN NUT 1/4-20 STAINLESS
8	2	13459-2	BOOM ARROW 4-7/16 LONG
7	2	22490	SPACER, BOOM ARROW 1/2" O.D.
6	2	23119	BEARING RETAINING BLOCK
5	1	23183	V-BLOCK SLIDER
4	1	27110	TERTIARY BOOM WELDED ASSEMBLY
3	1	21472	PRIMARY BOOM WELDED ASSEMBLY
2	1	20061	EXTENSION CYLINDER - HOLLOW ROD
1	1	27108	SECONDARY BOOM WELDED ASSEMBLY
ITEM NO.	EXPLODE/QTY.	PART NUMBER	DESCRIPTION

**REPLACEMENT PARTS
DRAWING - REF 21198**



REFERENCE REPLACEMENT PARTS LIST #21089



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS DWG, 27197 BOOM
ET25-36KX SERIES CRANES

DATE
03-08-17B
SUPERSEDES
12-20-11A

SECTION
C400
21088

REPLACEMENT PARTS LIST, 27197 BOOM
ET25-36KX SERIES CRANES

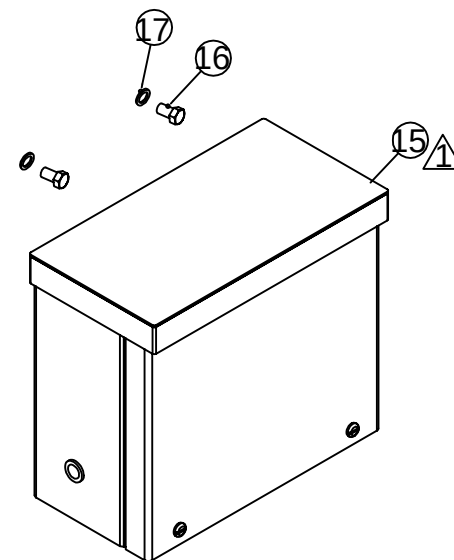
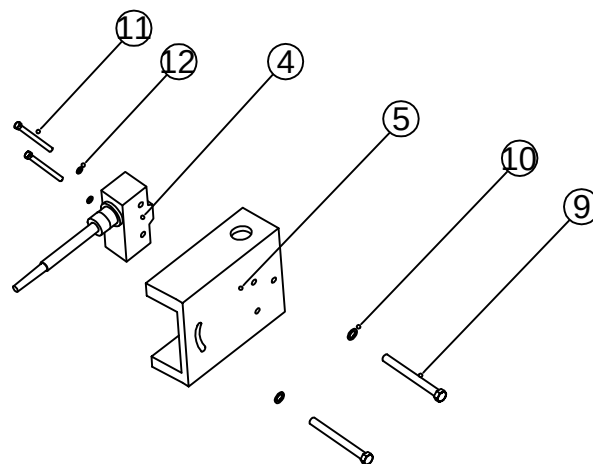
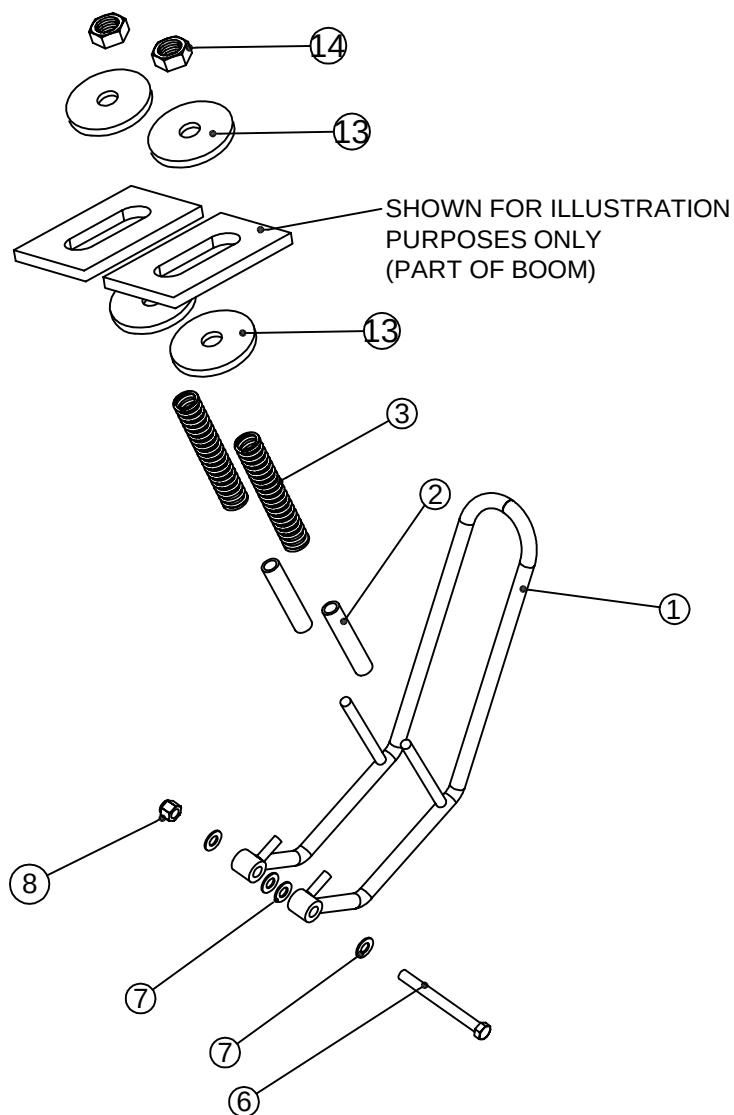
33	2	23924	SPACER; SHEAVES
32	8	!CACS02520063-N	CNTR SNK ALLEN HEAD CAP SCREW; 1/4-20 X 5/8" LONG W/ PATCH
31	2	23217-10	UHMW PAD; CONFIG. 'B', 3.19" X 1.75" X 0.63" THICK, 0.26" STEP
30	2	23116	PIN BLOCK, REINFORCING
29	2	21428	BUSHING
28	1	21941	PIN; EXTENSION CYLINDER
27	2	23217-7	UHMW PAD; CONFIG. 'A', 3.19" X 1.50" X 0.44" THICK, 0.20" STEP
26	2	23217-6	UHMW PAD; CONFIG. 'A', 3.19" X 1.50" X 0.50" THICK, 0.20" STEP
25	6	!LWSH-038	LOCK WASHER; 3/8"
24	6	!HHCS03816075	HEX HEAD CAP SCREW; 3/8-16 X 3/4" LONG, GR. 5 ZINC-PLTD
23	2	23217-3	UHMW PAD; CONFIG. 'B', 3.19" X 2.13" X 0.44" THICK, 0.26" STEP
22	2	23217-9	UHMW PAD; CONFIG. 'A', 3.19" X 1.75" X 0.44" THICK, 0.26" STEP
21	2	23217-8	UHMW PAD; CONFIG. 'A', 3.19" X 1.75" X 0.50" THICK, 0.26" STEP
20	2	!ANUT-02520S	ACORN NUT; 1/4-20
19	2	13459-2	BOOM ARROW; 4-7/16" LONG
18	2	22490	SPACER; BOOM ARROW, 1/2" O.D.
17	8	!SRNG-075	RETAINING RING; 3/4" SHAFT DIAMETER
16	1	!HHCS04414550	HEX HEAD CAP SCREW; 7/16-14 X 5-1/2" LONG, GR. 5 ZINC-PLTD
15	2	!LNUT-04414	LOCK NUT; 7/16-14, NYLON INSERT
14	1	21560	ROLLER; UHMW GUIDE
13	1	21936	FLAT MOUNT; WIRE ROPE GUIDE
12	1	21935	WELDED ASS'Y; WIRE ROPE GUIDE
11	2	!LNUT-07510	LOCK NUT; 3/4-10
10	2	17059-6	SHEAVE AXLE; 3/4" X 2" W/ SHANK
9	2	27001	SHEAVE; BOOM
8	2	23119	BEARING RETAINING BLOCK
7	1	23183	V-BLOCK SLIDER
6	2	21498	ROLLER; EXTENSION CYLINDER
5	4	21497	THRUST PIN; EXTENSION CYLINDER
4	1	21472	WELDED ASS'Y; PRIMARY BOOM
3	1	21753	EXTENSION CYLINDER
2	1	27167	WELDED ASS'Y; TERTIARY BOOM
1	1	27165	WELDED ASS'Y; SECONDARY BOOM
ITEM	QTY	PART NO.	DESCRIPTION

REFERENCE REPLACEMENT PARTS DRAWING #21088



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
RPLCMNT PRTS LIST, 27197	03-08-17C	C400
ET25-36KX SERIES CRANES	SUPERSEDES 12-20-11B	21089



▲ FOR RT-HAND MNGT. USE CORD REEL P/N 27034-1

17	2	!LWSH-031	LOCK WASHER 5/16 SPLIT
16	2	!HHCS03118050-5	HEX HEAD CAP SCREW 5/16-18 X 1/2"
15	1	22683	CORD REEL W/MOUNTING BRACKET
14	2	!LNUT-04414	LOCKNUT W/NYLON INSERT - 7/16-14
13	4	!FWSH-050	FLAT WASHER -1/2 USS
▲ 12	2	!LWSH-#06-STAR	EXTERNAL STAR LOCK - #6
▲ 11	2	!PHCS#0632100	PAN CAP SCREW - #6-32 X 1
10	2	!LWSH-#10	LOCK WASHER - #10
9	2	!PHCS#1024125	PAN HD CAP SCREW - #10-24 X 1-1/2"
8	1	!LNUTM12X175	NYLOK NUT12MM-1.75
7	4	!FWSH-044SAE	FLAT WASHER - 7/16 SAE
6	1	!HHCSM12M120	HEX HEAD CAP SCREW 12MM X 120MM LONG
5	1	21237	SWITCH HOUSING (BLACK CAST NYLON)
4	1	19376	ANTI-TWO BLOCK SWITCH
3	2	27586	SPRING
2	2	27579b	SPRING LOCATING TUBE
1	1	21870	ANTI TWO BLOCK CAGE ASSEMBLY
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT PARTS - LH CORD REEL (STNDRD)

DATE

02-03-15A

SECTION

C400

ET/HT25/30 & ET36 ANTI-2-BLOCK SYSTEM

SUPERSEDES

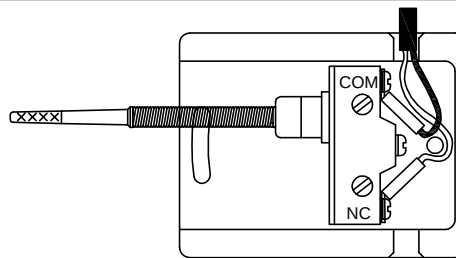
04-28-11

23026

STEP 1

ANTI-TWO BLOCK (A2B) SWITCH WIRING

Connect the Black wire to the 'COM' (Common) terminal and the White wire to the 'NC' (Normally Closed) terminal. The center terminal is not used.



CUT-AWAY VIEW

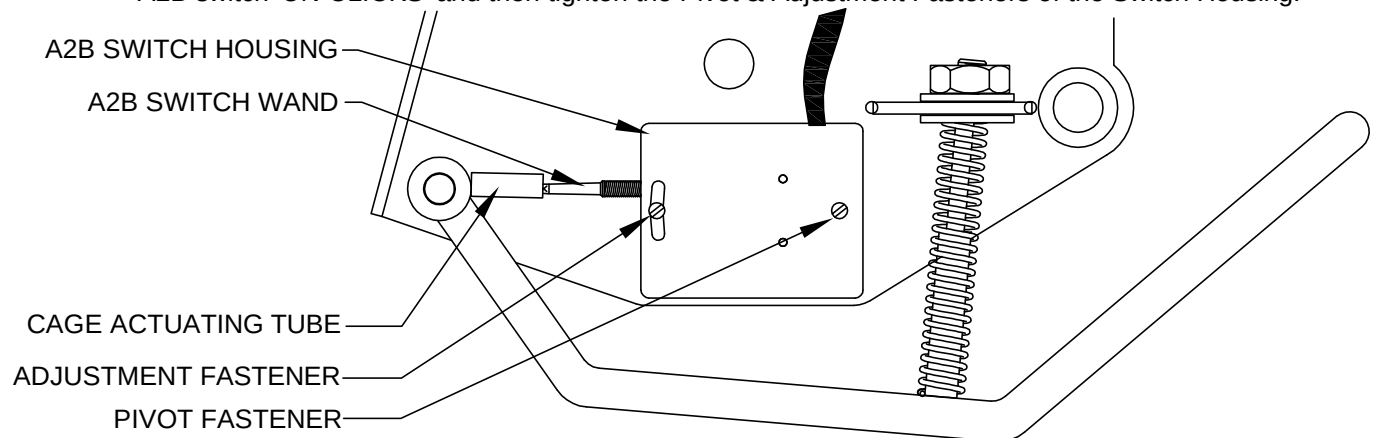
STEP 2

ANTI-TWO BLOCK (A2B) SWITCH ADJUSTMENT

The A2B switch is adjusted by loosening the Pivot & Adjustment Fasteners of the A2B switch housing.

Once loosened the A2B switch and housing move freely pivoting on the 'Pivot Fastener' allowing the 'Switch Wand' to be adjusted to the 'Cage Actuating Tube'.

With the A2B Switch Wand inserted into the Cage Actuating Tube rotate the A2B switch housing Counter-Clockwise until you hear the 'click' of the A2B switch then rotate Clockwise 'just until' the A2B switch 'UN-CLICKS' and then tighten the Pivot & Adjustment Fasteners of the Switch Housing.

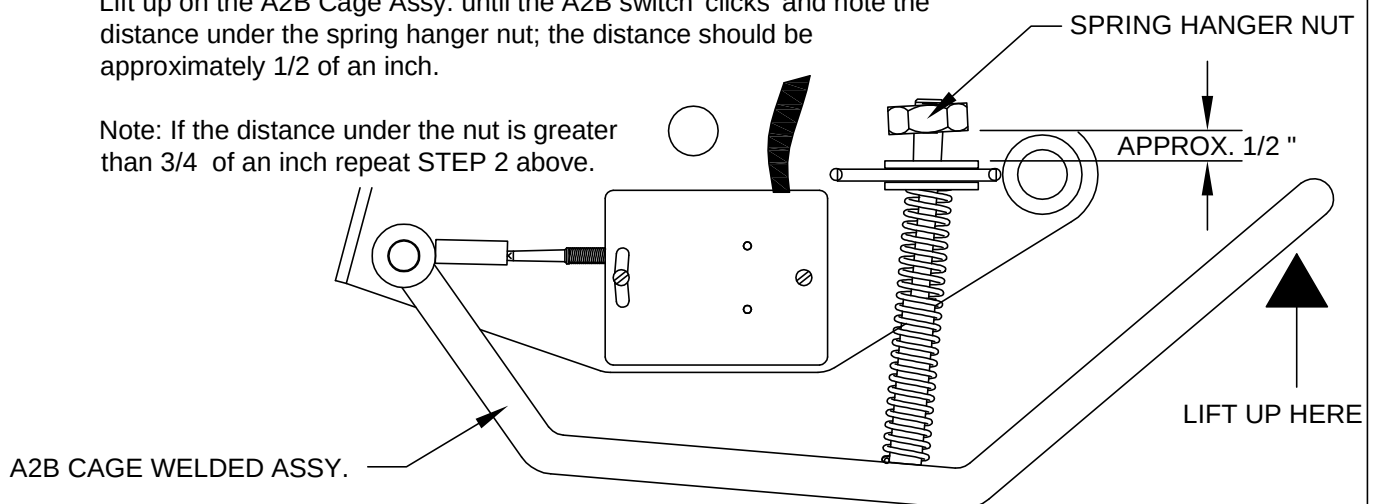


STEP 3

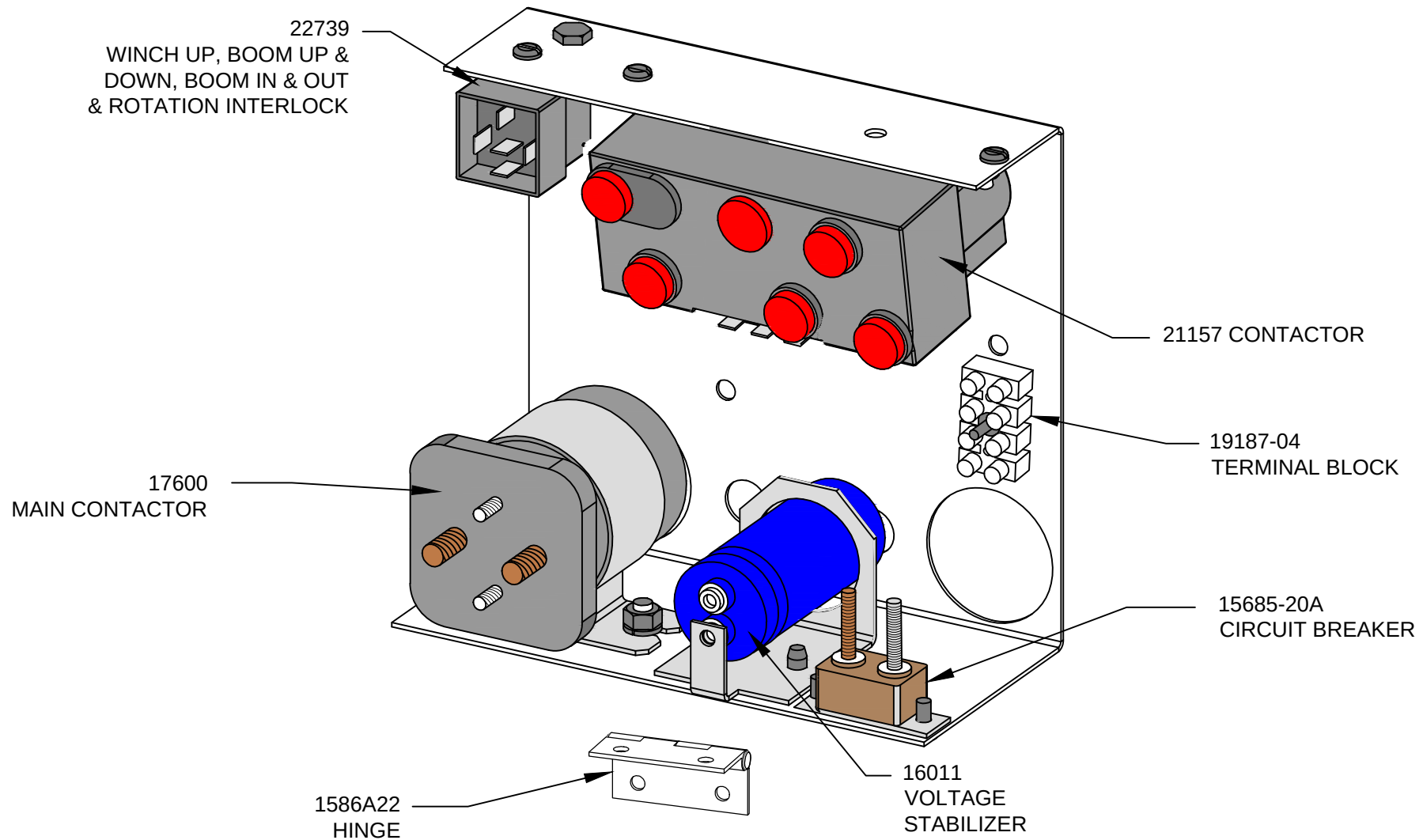
TESTING ADJUSTMENT

Lift up on the A2B Cage Assy. until the A2B switch 'clicks' and note the distance under the spring hanger nut; the distance should be approximately 1/2 of an inch.

Note: If the distance under the nut is greater than 3/4 of an inch repeat STEP 2 above.



23154-2 ELECTRICAL COMPONENT ASSEMBLY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

23154-2 ELECTRICAL COMPONENT ASSY

ET25/30/36KX

DATE

02-19-20E

SUPERSEDES

02-10-20D

SECTION

C400

21776

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

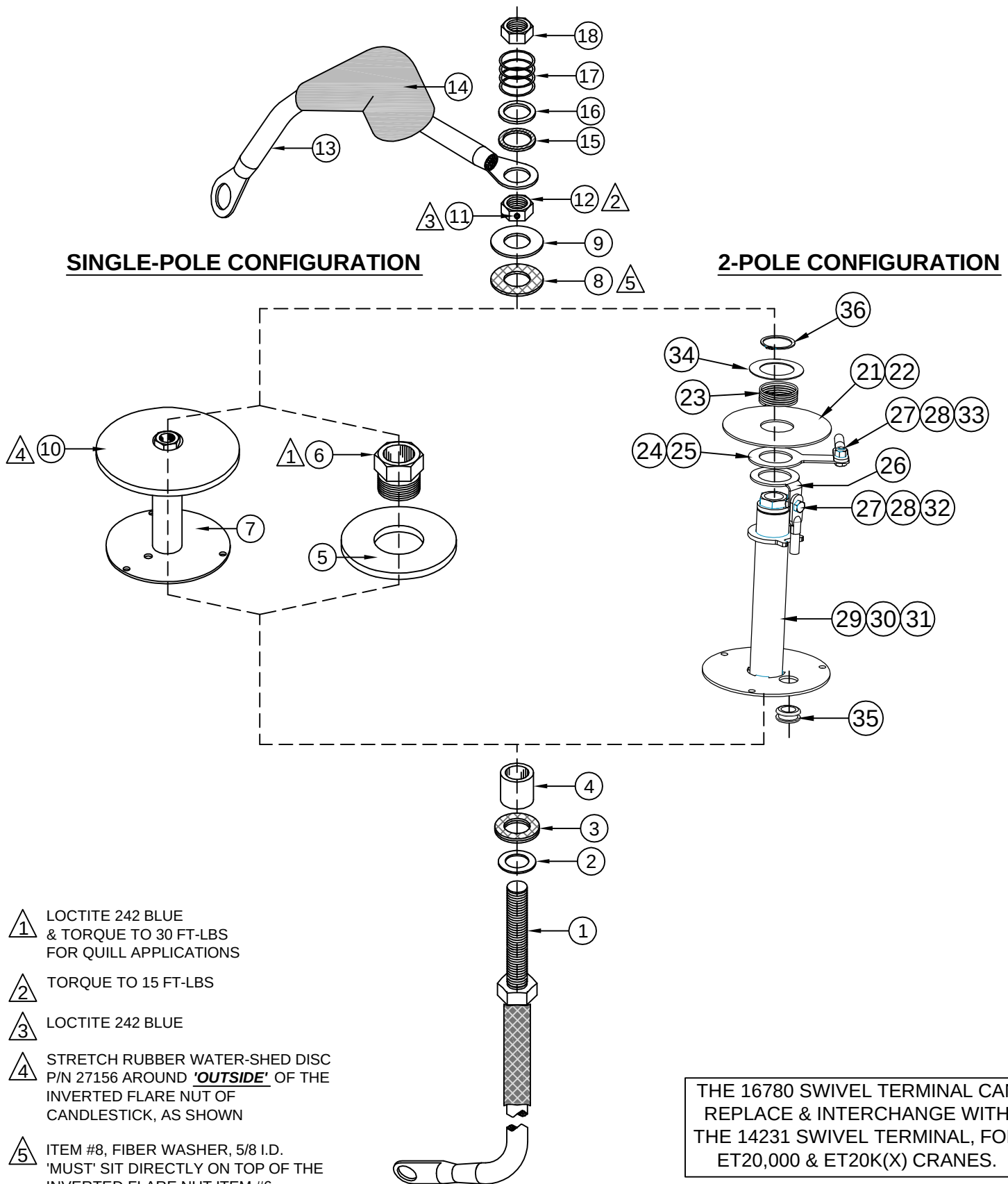
						16780 BILLS OF MATERIALS		
Quill Rotation	Slew Rotation Single Pole Slip-Ring	Slew Rotation 2-Pole Slip-Ring (ET6K ONLY)	Slew Rotation 2-Pole Slip-Ring (ET8-18KX)	Slew Rotation 2-Pole Slip-Ring (ET25-36KX)	ALL CRANES			
16780	16780 - 1	16780 - 2P6	16780 - 2P8	16780 - 2P25	16780 - KIT			
QTY						#	PART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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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

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



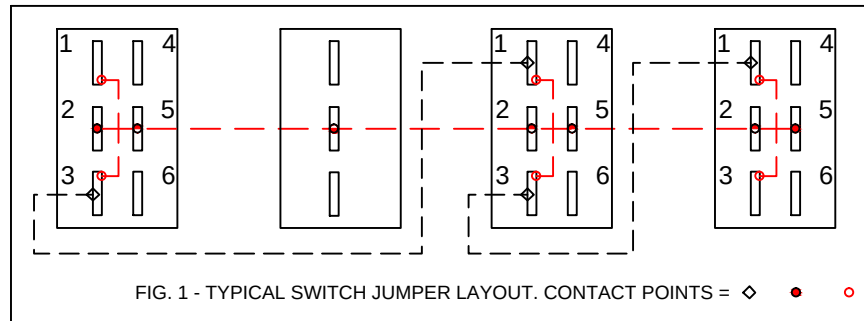
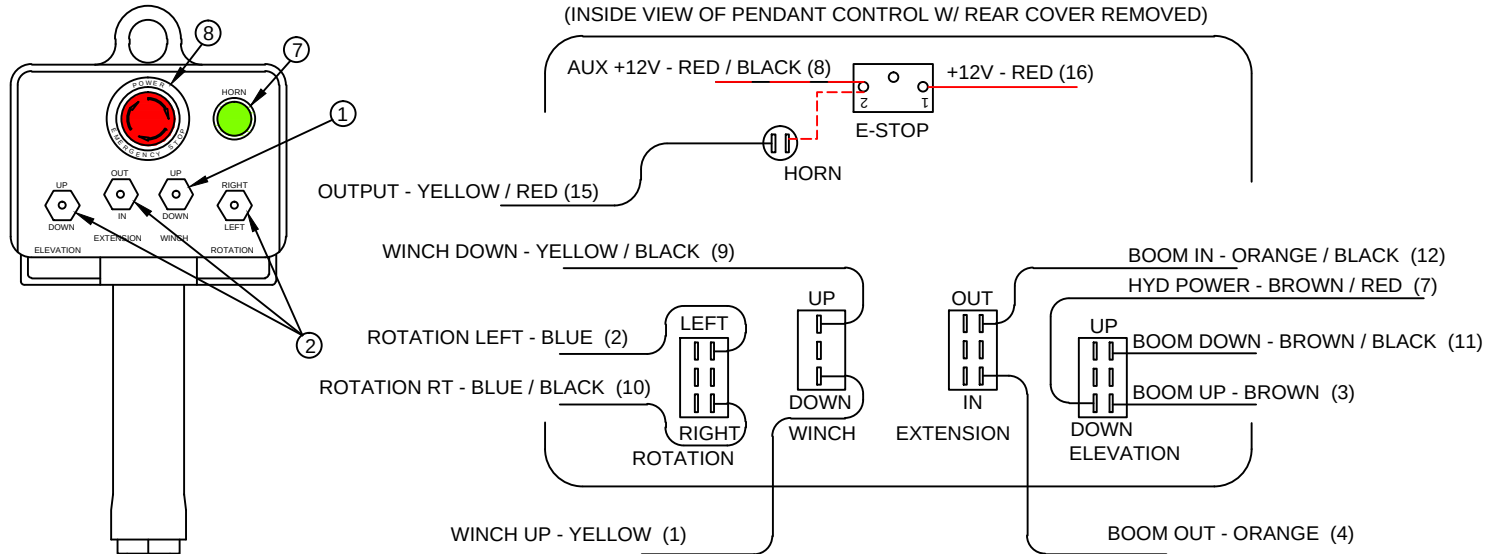
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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

DATE
04-27-18
SUPERSEDES
-

SECTION
C400
21293

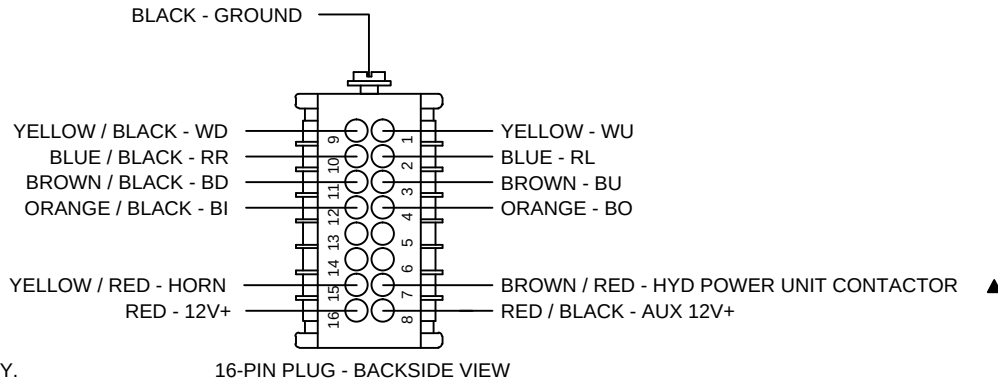
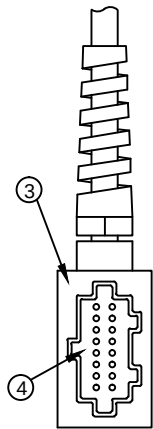
21990 PENDANT; 4 FUNCTION ET CRANES, E-STOP / HORN



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

NOTE 2:
STOW OR CUT BACK UNUSED WIRES.

MODEL	STARTING S/N
ET8KX	73800
ET12KX	69800
ET16KX	170000
ET18KX	95900
ET25KX	125300
ET30KX	130300
ET36KXX	140300



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	3	22152	SWITCH; DPDT, MOMENTARY
1	1	22081	SWITCH; SPDT, MOMENTARY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS DWG & LIST

21990 PNDNT; 4 FNCTN ET CRNS, ESTP/HRN

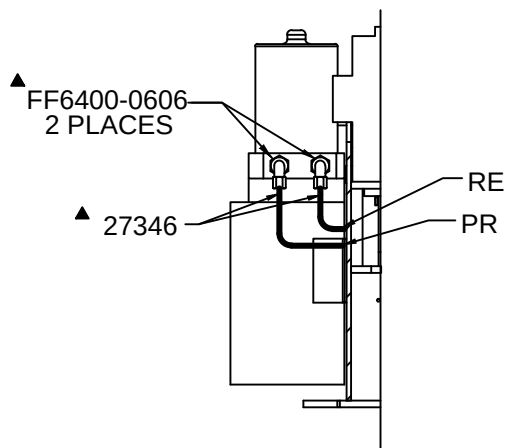
DATE
01-12-17B

SUPSEDES
10-20-14A

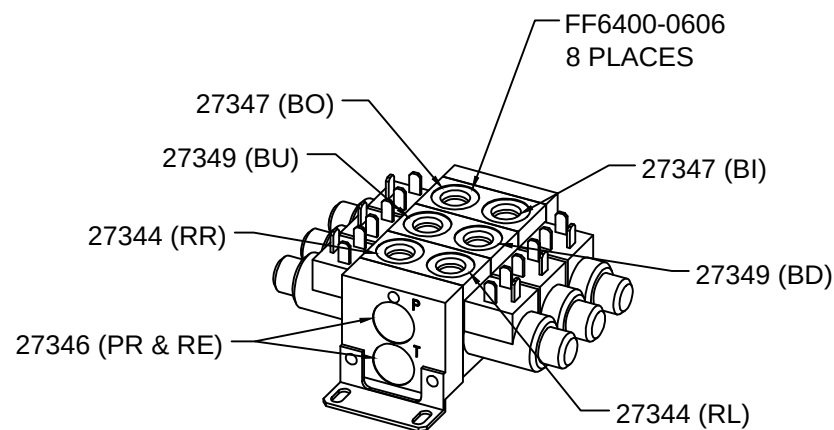
SECTION
C400

23075

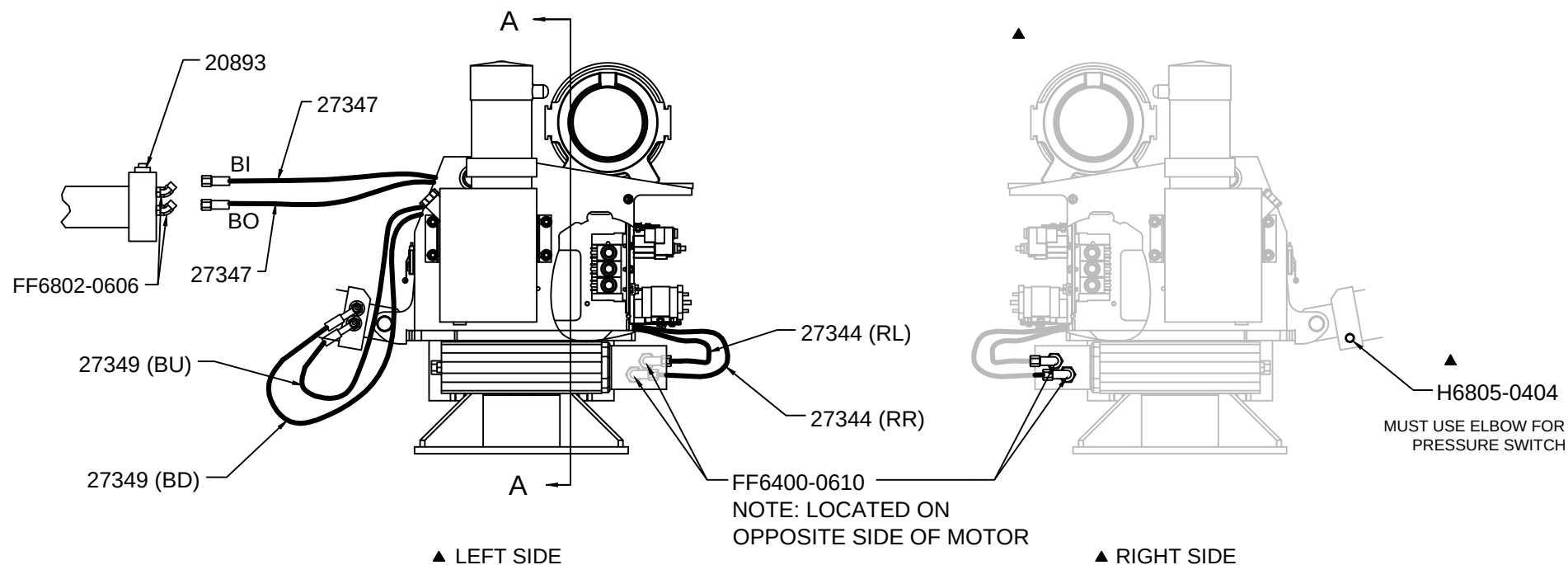
RR	ROTATION RIGHT
RL	ROTATION LEFT
BO	BOOM OUT
BI	BOOM IN
BU	BOOM UP
BD	BOOM DOWN
PR	PRESSURE
RE	RETURN



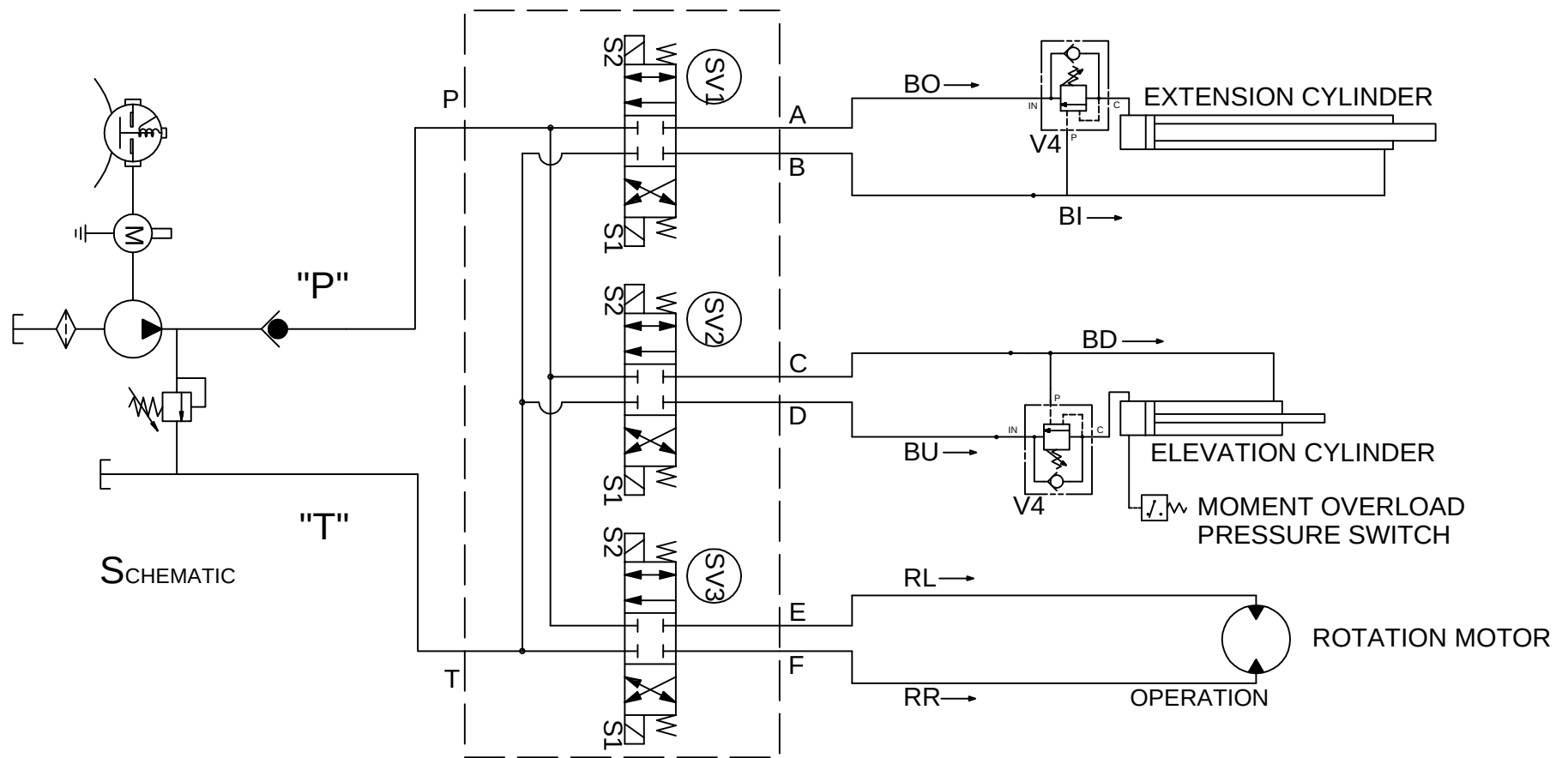
SECTION VIEW A-A



NOTE:
FOR REPLACEMENT
COILS SEE P/N 23134



ET16/18/25/30/36KX HYDRAULIC COMPONENT DIAGRAM



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

HYDRAULIC SYSTEM DIAGRAM

ET16/18/25/30/36KX ▲

DATE

10-23-14D

SUPERSEDES

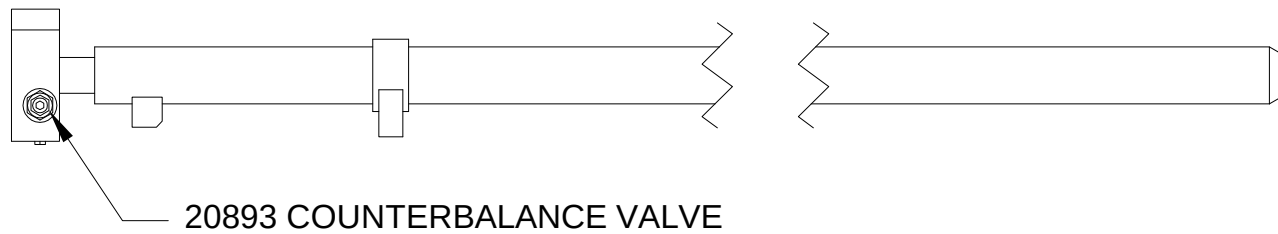
01-31-05C

SECTION

C400

20156

20061 EXTENSION CYLINDER



SEAL KIT P/N: 19887



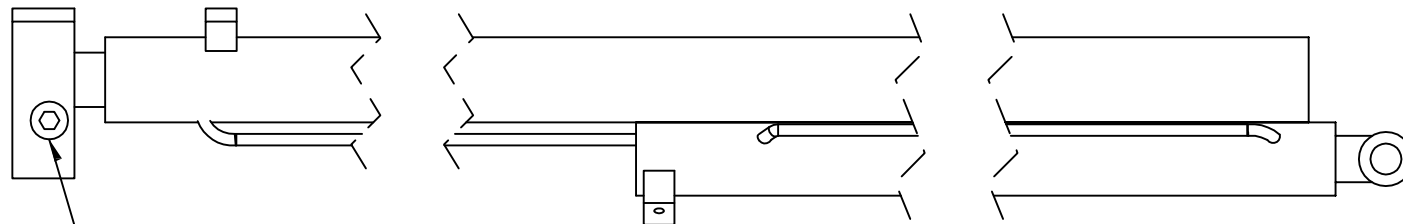
MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
EXTENSION CYLINDER
ET/HT25/30KX

DATE
01-07-14A
SUPERSEDES
08-20-09

SECTION
C400
21879

21753 DUAL-STAGE EXTENSION CYLINDER



20893 - COUNTERBALANCE VALVE

SEAL KIT P/N: 21775



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

EXTENSION CYLINDER, DUAL-STAGE

ET25-36KX & HT25/30 SERIES CRANES

DATE

03-08-17B

SUPERSEDES

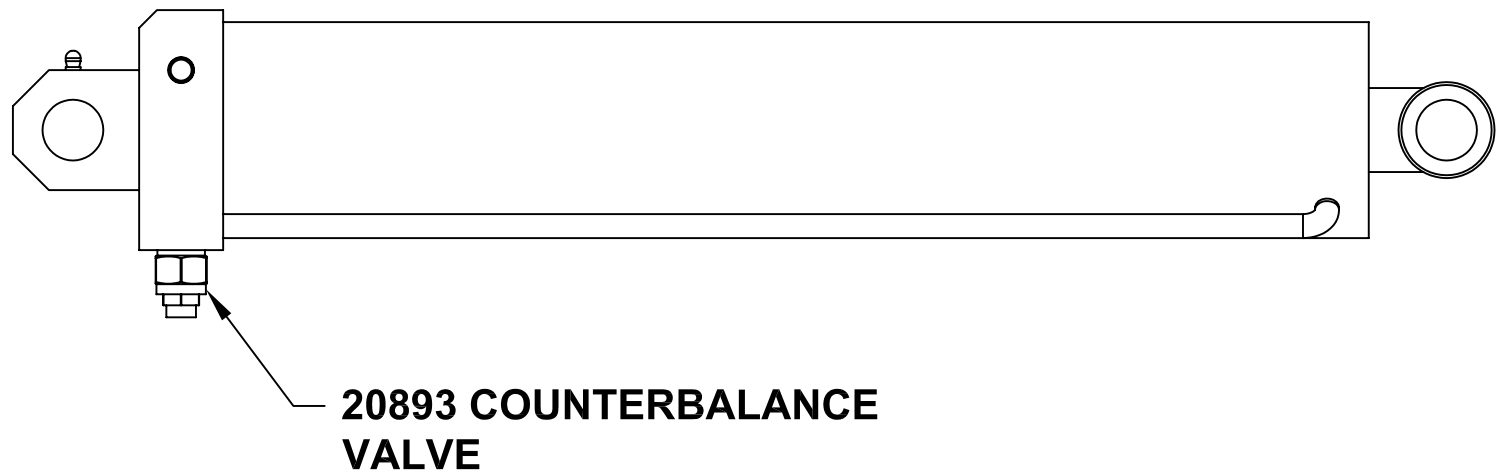
04-30-09A

SECTION

C400

21860

21752 ELEVATION CYLINDER



SEAL KIT P/N: 21774



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
ELEVATION CYLINDER

ET/HT25/30/36KX(X)

DATE
8-12-09

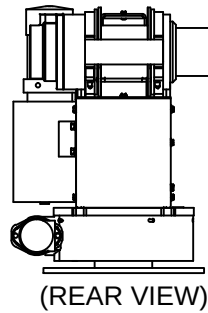
SUPERSEDES
-

SECTION
C400

21773

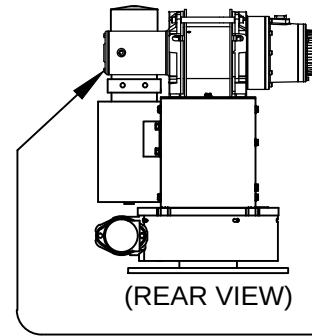
19813 WINCH REPLACEMENT PARTS

WARN DC3000 SERIES-WOUND MOTOR



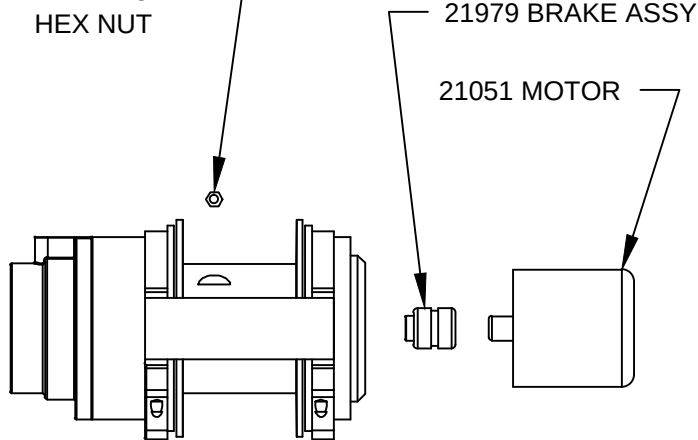
MOTOR ON RIGHT
WHEN VIEWED FROM REAR

COMEUP GTD-3300 PERMANENT MAGNET MOTOR



MOTOR ON LEFT
WHEN VIEWED FROM REAR

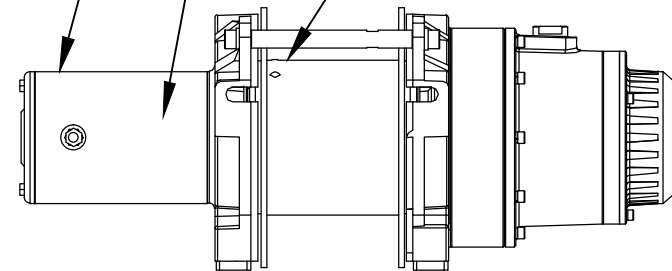
!HNUT-04414 HEX NUT
(WIRE ROPE ANCHOR)
OR EQUIVALENT METRIC
HEX NUT



23915 MOTOR

23918 BRAKE REPLACEMENT KIT

2X SET SCREW
(INCL W/ WINCH)



STARTING SERIAL NUMBERS:

ET25 SERIES	22D000003
ET30 SERIES	21B000001
ET36 SERIES	20B000014



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

WINCH REPLACEMENT PARTS

ET25/30/36K

DATE

04-26-22E

SUPSEDES

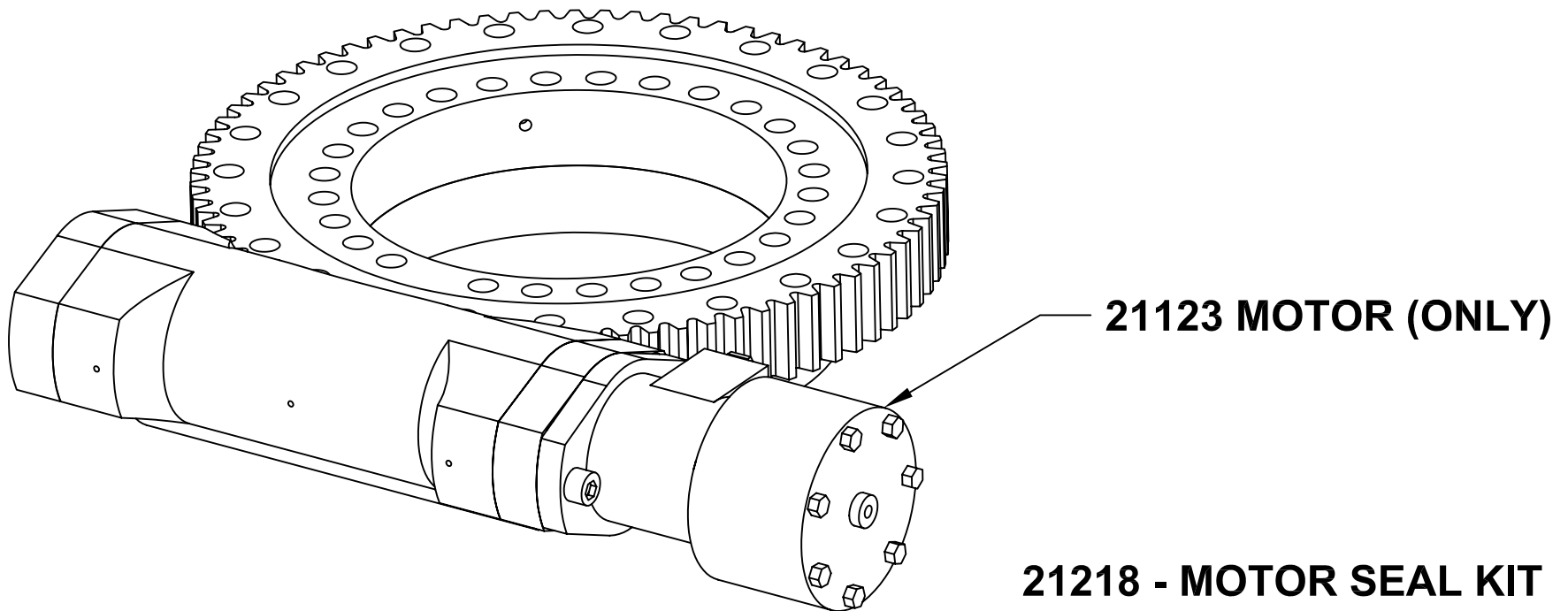
04-13-22D

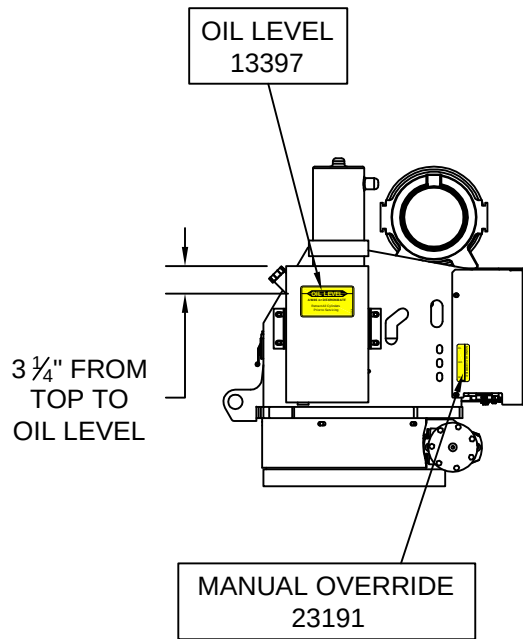
SECTION

C400

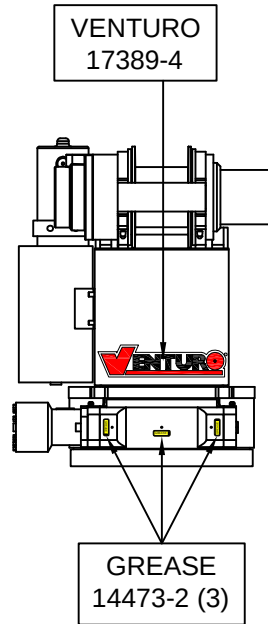
21053

21418 SLEWING SYSTEM REPLACEMENT PARTS

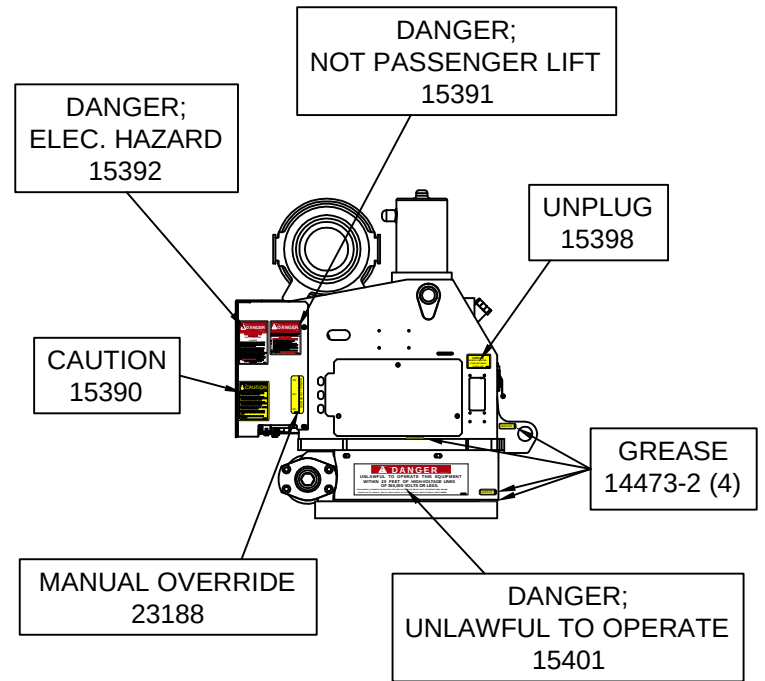




LEFT



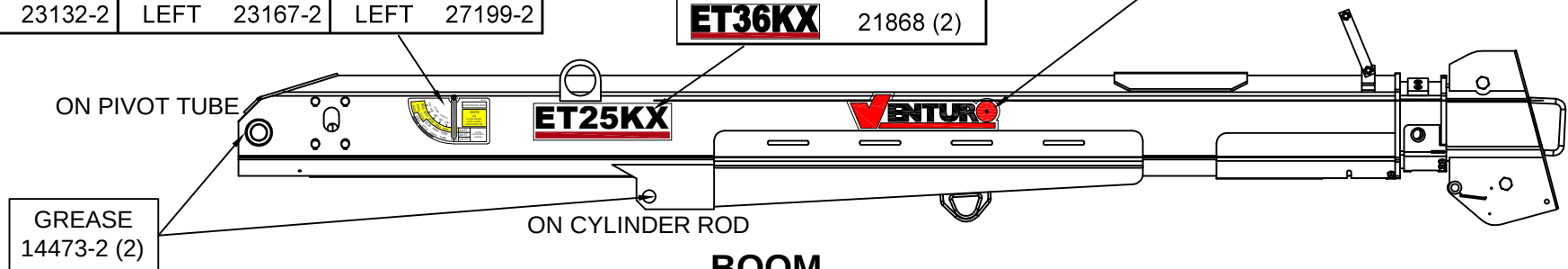
BACK



RIGHT

CAPACITY					
ET25KX		ET30KX		ET36KX	
RIGHT	23132-1	RIGHT	23167-1	RIGHT	27199-1
LEFT	23132-2	LEFT	23167-2	LEFT	27199-2

MODEL	
ET25KX	19743 (2)
ET30KX	23168 (2)
ET36KX	21868 (2)



BOOM



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
DECAL PLACEMENT

ET25/30/36KX

DATE
05-19-15D

SUPERSEDES
08-08-12C

SECTION
C400

21894

ET25/30/36KX FIELD SERVICE LABEL KITS

21898; FIELD SERVICE LABEL KIT, ET25KX

PART NO.	QTY.	DESCRIPTION
14473-2	9	DECAL; GREASE
17389	2	DECAL; VENTURO, MEDIUM
17389-4	1	DECAL; VENTURO, SMALL
23132-1	1	DECAL; BOOM CAPACITY, RIGHT, ET/HT25KX
23132-2	1	DECAL; BOOM CAPACITY, LEFT, ET/HT25KX
19743	2	DECAL; MODEL NAME, ET25KX
13397	1	DECAL; OIL LEVEL
23188	1	DECAL; MANUAL OVERRIDE, RIGHT
23191	1	DECAL; MANUAL OVERRIDE, LEFT
17813	1	DECAL; OVERLOAD SENSING SYSTEM
16184-1	1	DECAL; HORN RELAY
21899	1	IDWG; FIELD SERVICE LABEL KIT
21894	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL, VENTURO CRANES
15397	1	KIT; ACCIDENT PREVENTION SIGNS

21863; FIELD SERVICE LABEL KIT, ET30KX

PART NO.	QTY.	DESCRIPTION
14473-2	9	DECAL; GREASE
17389	2	DECAL; VENTURO LOGO, MEDIUM
17389-4	1	DECAL; VENTURO LOGO, SMALL
23167-1	1	DECAL; BOOM CAPACITY, RIGHT, ET30KX
23167-2	1	DECAL; BOOM CAPACITY, LEFT, ET30KX
23168	2	DECAL; MODEL NAME, ET30KX
13397	1	DECAL; OIL LEVEL
23188	1	DECAL; MANUAL OVERRIDE, RIGHT
23191	1	DECAL; MANUAL OVERRIDE, LEFT
17813	1	DECAL; OVERLOAD SENSING SYSTEM
16184-1	1	DECAL; HORN RELAY
21899	1	IDWG; FIELD SERVICE LABEL KIT LIST
21894	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL, VENTURO CRANES
15397	1	KIT; ACCIDENT PREVENTION SIGNS

21866; FIELD SERVICE LABEL KIT, ET36KX

PART NO.	QTY.	DESCRIPTION
14473-2	9	DECAL; GREASE
17389	2	DECAL; VENTURO LOGO, MEDIUM
17389-4	1	DECAL; VENTURO LOGO, SMALL
27199-1	1	DECAL; BOOM CAPACITY, RIGHT, ET36KX
27199-2	1	DECAL; BOOM CAPACITY, LEFT, ET36KX
21868	2	DECAL; MODEL NAME, ET36KX
13397	1	DECAL; OIL LEVEL
23188	1	DECAL; MANUAL OVERRIDE, RIGHT
23191	1	DECAL; MANUAL OVERRIDE, LEFT
17813	1	DECAL; OVERLOAD SENSING SYSTEM
16184-1	1	DECAL; HORN RELAY
21899	1	IDWG; FIELD SERVICE LABEL KIT LIST
21894	1	IDWG; DECAL PLACEMENT
INST-23233	1	SAFETY MANUAL, VENTURO CRANES
15397	1	KIT; ACCIDENT PREVENTION SIGNS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

FIELD SERVICE LABEL KIT

ET25/30/36KX

DATE

03-13-23F

SUPERSEDES

08-04-20E

SECTION

C400

21899



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.

VENCO VENTURO INDUSTRIES LLC
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