

PARTS & INSTALLATION MANUAL

ET30KX(X)(P)

Included in this manual:

ET30KX(P)

- 5,000 lbs Electric Telescopic Service Crane
- 10 – 16 ft Powered, Single-Stage, Boom Extension
- 16 – 20 ft Manual, Pullout, Boom Extension
- Optional Proportional Controls

ET30KXX(P)

- 5,000 lbs Electric Telescopic Service Crane
- 10 – 16 – 20 ft Powered, Dual-Stage, Boom Extension
- Optional Proportional Controls

ET30KX(P)

INST-24412 - 7/1/2025 (Rev: NEW0)

| | |
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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

ET30KX-10/20

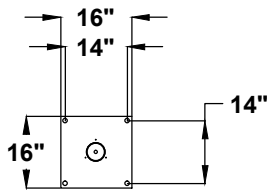
DATE
8-10-09A

SUPERCEDES
9-19-08

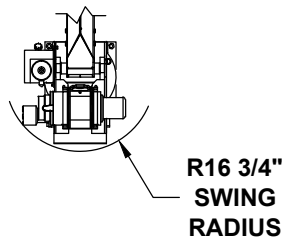
SECTION
C120

21851b

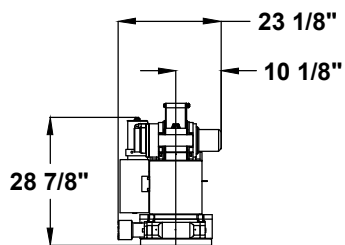
WARNING: THESE PRODUCTS ARE NOT PASSENGER LIFTS. THEY ARE NOT DESIGNED OR INTENDED TO BE USED TO LIFT, SUPPORT, OR OTHERWISE TRANSPORT PERSONNEL.



BASE MOUNTING DIMENSIONS



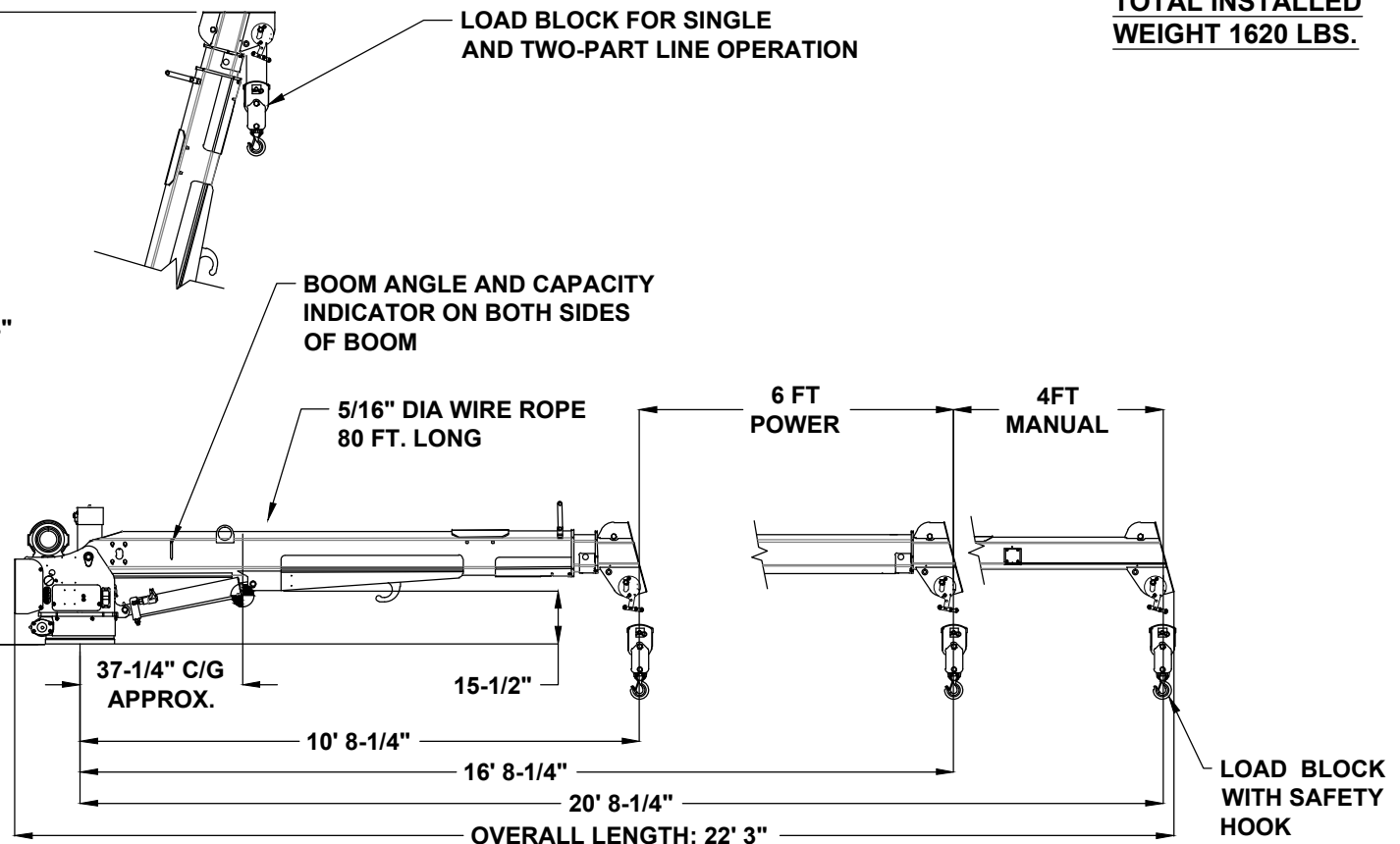
R16 3/4" SWING RADIUS



21' 5-5/8"

17' 7-1/4"

11' 9-3/4"



TOTAL INSTALLED WEIGHT 1620 LBS.



MANUFACTURING, INC.
CINCINNATI, OHIO

**TITLE
INSTALLATION DRAWING**

ET25/30KX(P) - SINGLE-STAGE 10/16/20 BOOM

**DATE
10-05-20A**

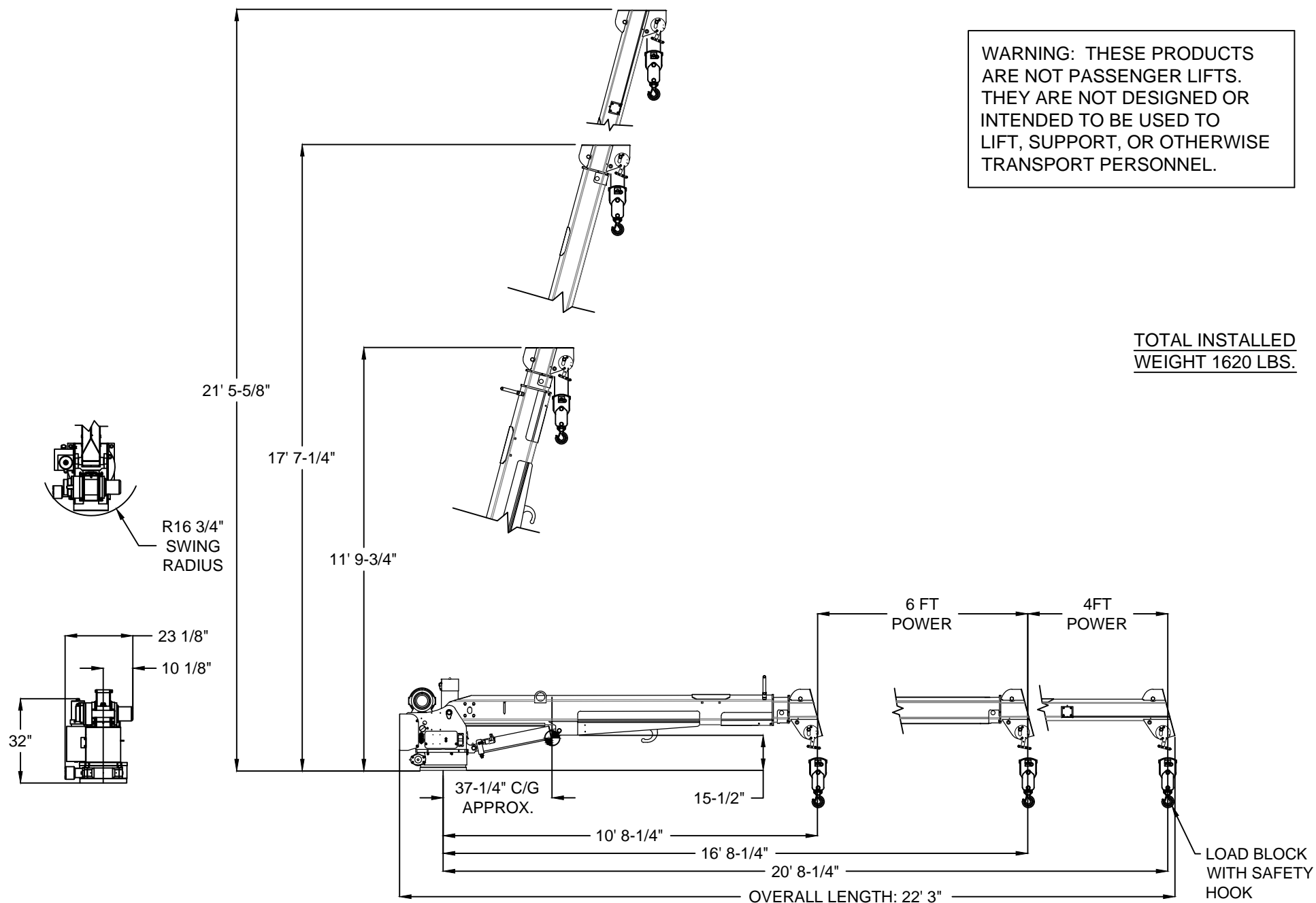
**SUPERSEDES
08-26-19**

**SECTION
C100**

24391

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

ET25/36KX(P) - DUAL-STAGE 10/16/20 BOOM

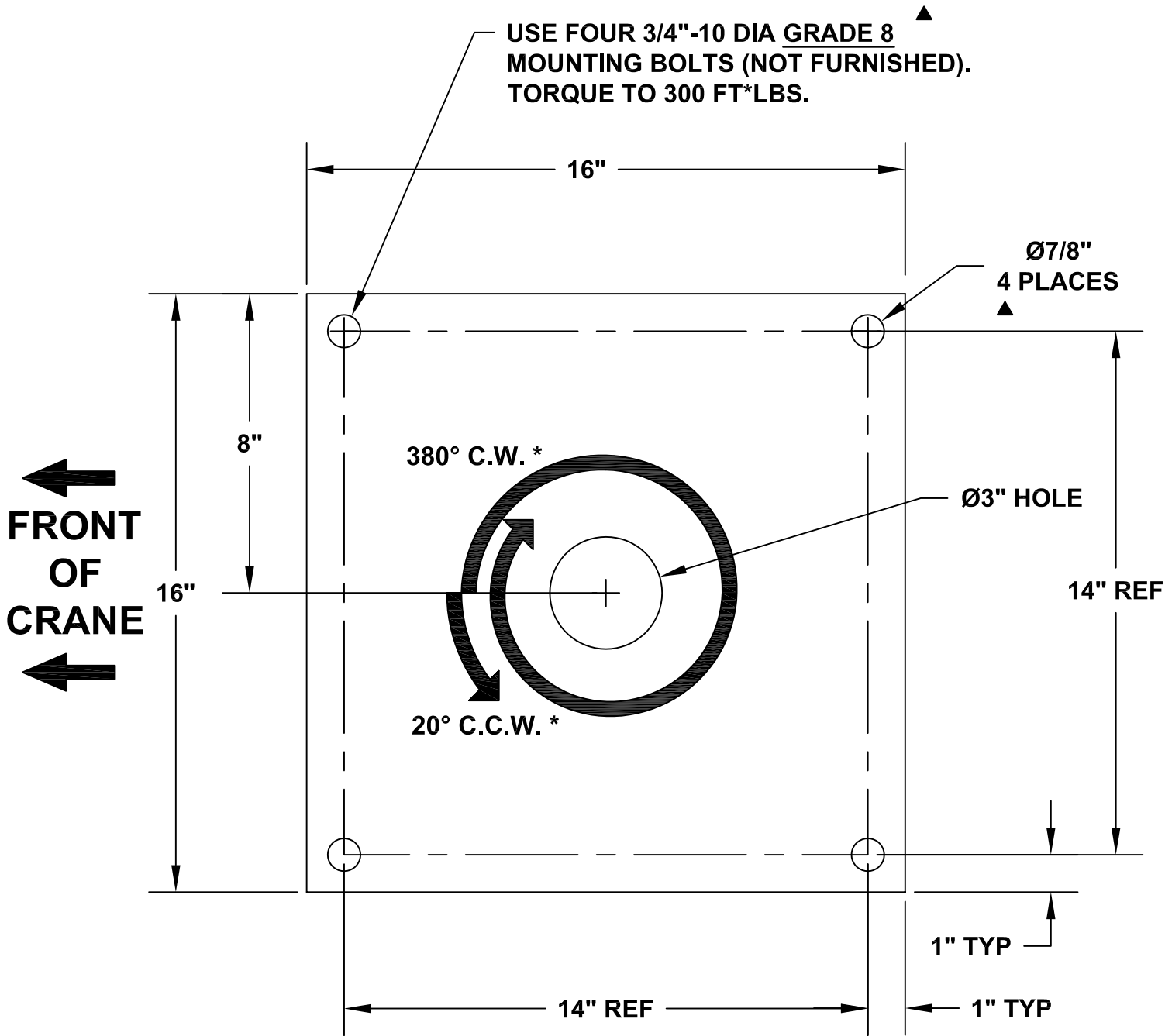
DATE
10-08-24C

SUPERSEDES
04-05-23B

SECTION
C100

24390

ET/HT25/30/36KX BASE MOUNTING DIMENSIONS



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



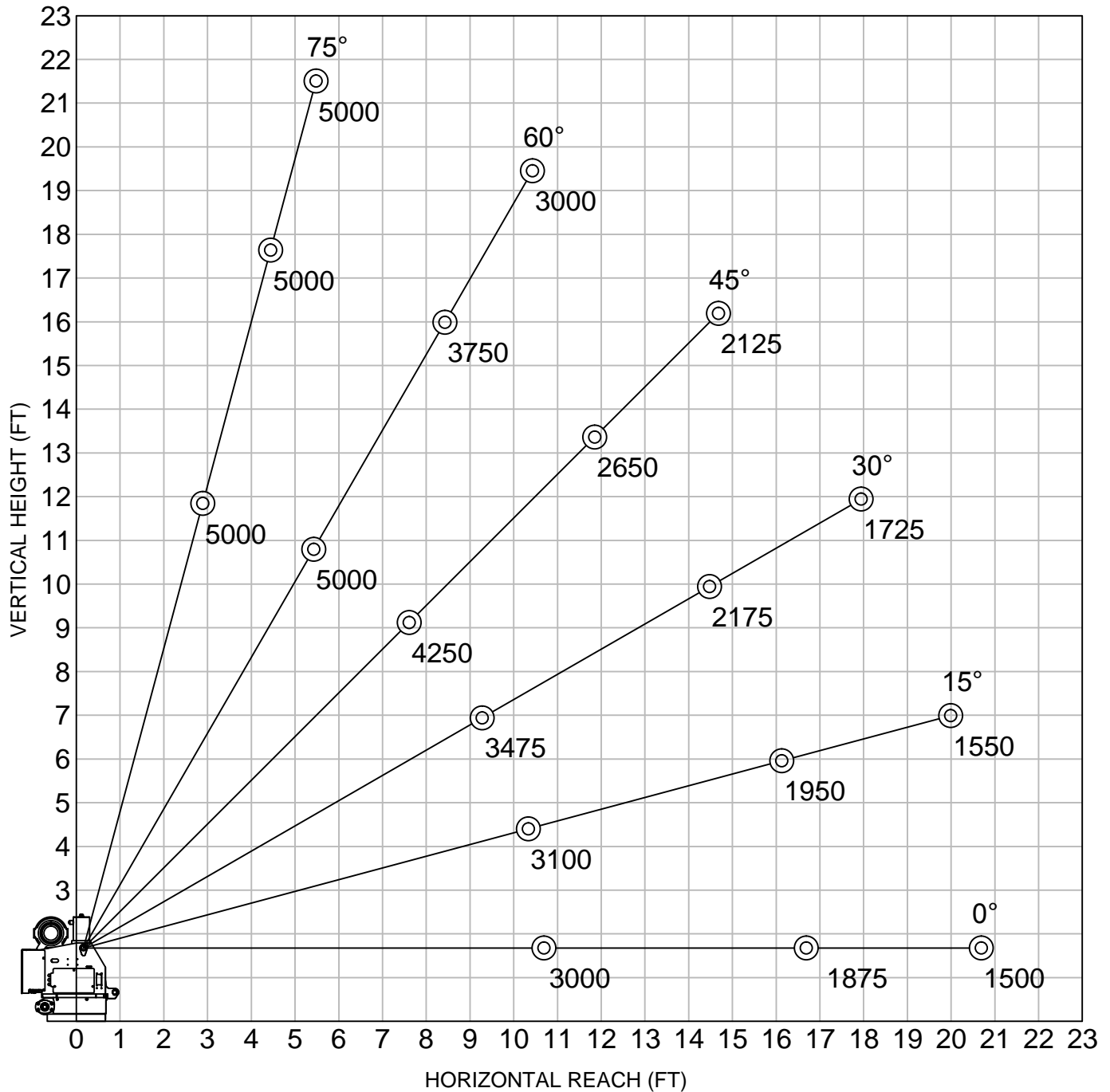
MFG., INC.
CINCINNATI, OHIO

| 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

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

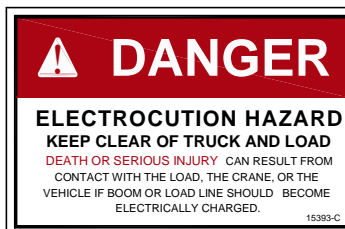
ELECTRIC CRANES

SUPERSEDES

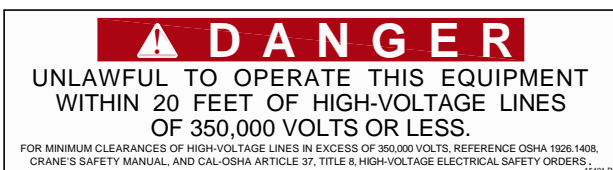
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850712

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



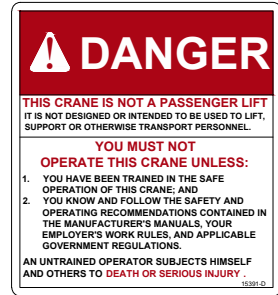
DECAL #: 15391

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



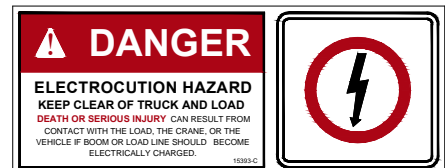
DECAL #: 15393

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.: 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.



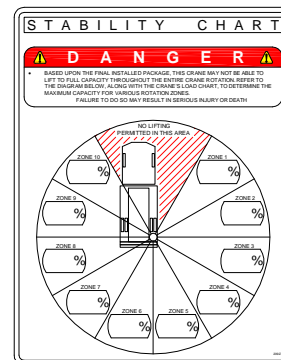
PART NO.: 20927

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.



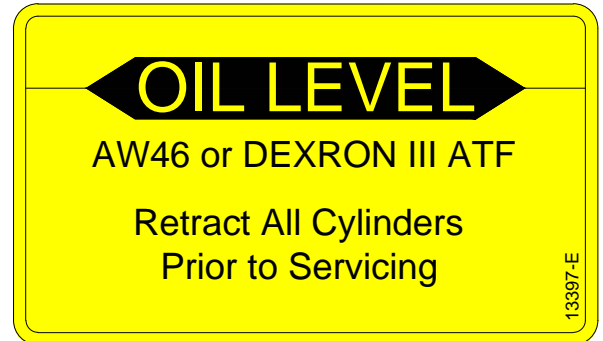
PART NO.: 13397

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

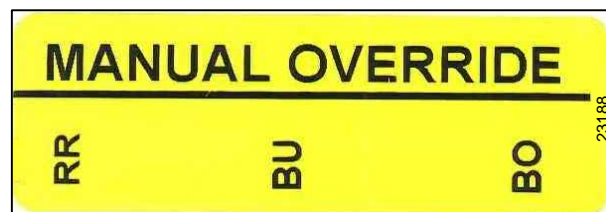
SECTION
C150

21354

PART NO.: 23191
DECAL: MANUAL OVERRIDE DECAL
FUNCTION: To show the manual override ports.
QUANTITY: 1 each
PLACEMENT: Left side of housing.



PART NO.: 23188
DECAL: MANUAL OVERRIDE DECAL
FUNCTION: To show the manual override ports.
QUANTITY: 1 each
PLACEMENT: Right side of housing.



PART NO.: 19315-2
DECAL: MANUAL OVERRIDE (PROPORTIONAL)
FUNCTION: To show operator how to override proportional valve.
QUANTITY: 1
PLACEMENT: Right side of Mechanism, near valve stem.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
ADDITIONAL DECALS
ET25/30/36KX(P)

DATE
09-16-19
SUPERSEDES
-

SECTION
C150
24414

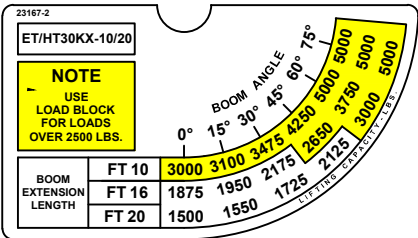
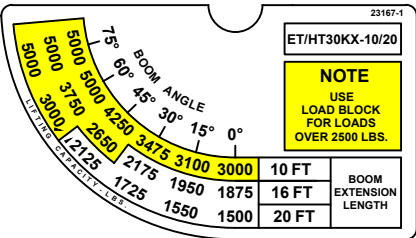
PART NO.: 23167-1 & 23167-2

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.

ET30KX

PART NO.: 19788

DECAL: PROPORTIONAL DECAL-1

FUNCTION: To show the crane has proportional feature.

QUANTITY: 2

PLACEMENT: One on each side of boom.

PROPORTIONAL CONTROL



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MODEL/CAPACITY DECALS
ET30KX(P)

DATE
09-16-19B
SUPERSEDES
08-10-09A

SECTION
C150
21853

SECTION 200

INSTALLATION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

!! IMPORTANT !!

ADEQUATE WIRING IMPERATIVE FOR PROPER OPERATION

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

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE

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

* INCLUDES GROUND CABLE

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

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
CABLE & BATTERY

ELECTRIC CRANES

DATE
07-30-18X

SUPERSEDES
09-27-17W

SECTION
C200

711105

RECOMMENDED CIRCUIT BREAKER TABLE

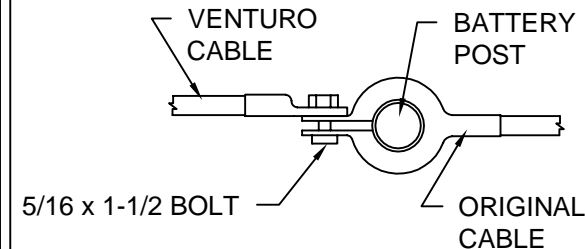
| CRANE | DESCRIPTION | PART NO. |
|---------------|---------------------|-----------|
| CT310KX | 250 AMP, MAN RESET | 22946-250 |
| DT7 | 250 AMP, MAN RESET | 22946-250 |
| CE-1500-FB | 150 AMP, MAN RESET | 22946-150 |
| CE6K | 150 AMP, MAN RESET | 22946-150 |
| CT200X | 250 AMP, MAN RESET | 22946-250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

BATTERY REQUIREMENTS

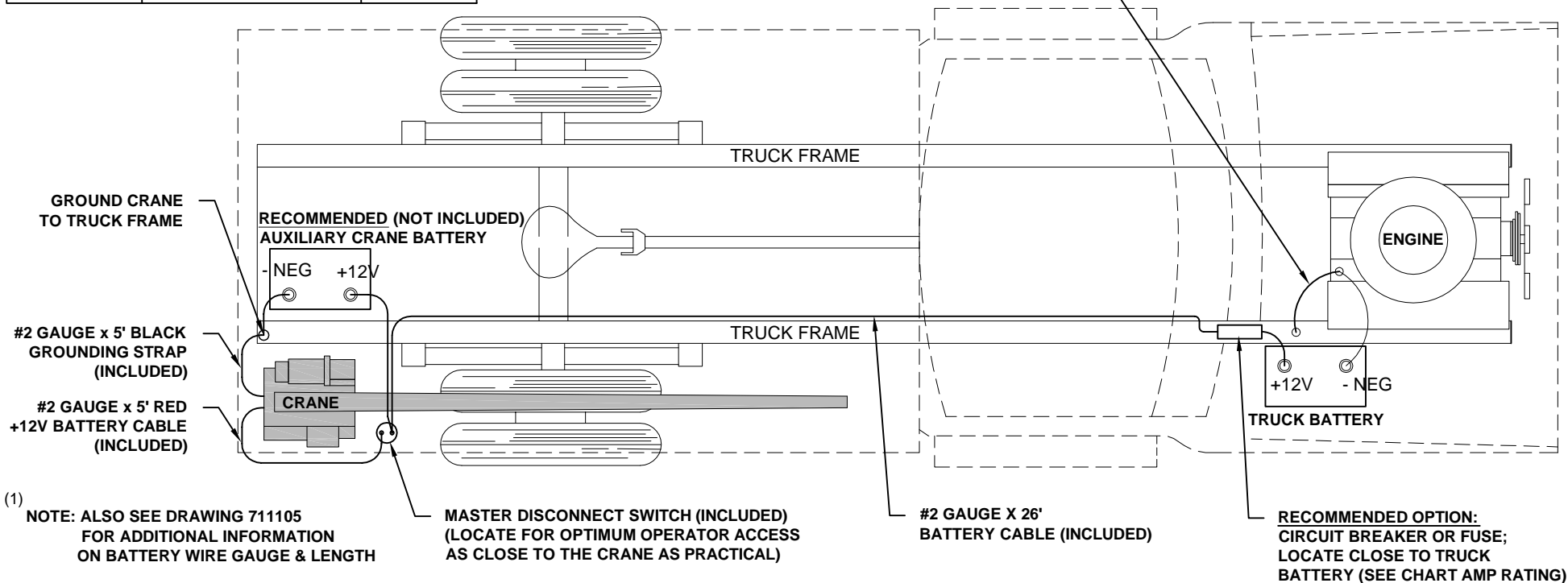
- 12 VOLT VEHICLE BATTERY REQUIREMENTS
 - 625 COLD CRANKING AMPS (AT 0° F)
 - 160 MINUTES RESERVE CAPACITY
 - 102 PLATES, 105 AMP-HR
- (1) 12 VOLT AUXILIARY BATTERY REQUIREMENTS
 - SEE MINIMUM WIRE GAUGE AND BATTERY SIZE

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

RECOMMENDED BATTERY TERMINAL ATTACHMENT



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

BATTERY CABLE & COMPONENT INSTALL

ET CRANES

DATE

09-03-20M

SUPERSEDES

07-30-18L

SECTION

C200

15660

STABILITY TEST - 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

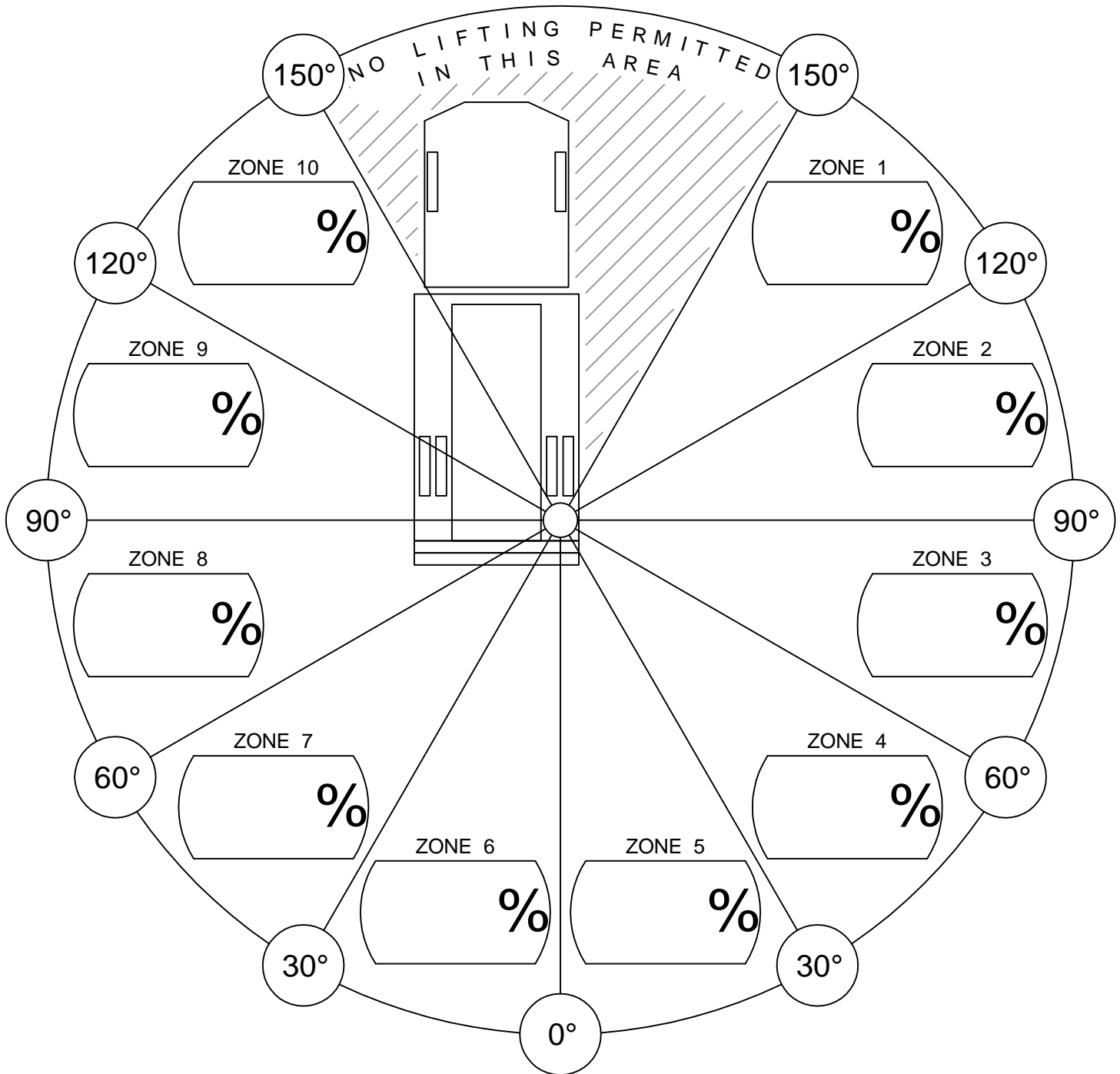
ET/HT30-20' SERIES

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

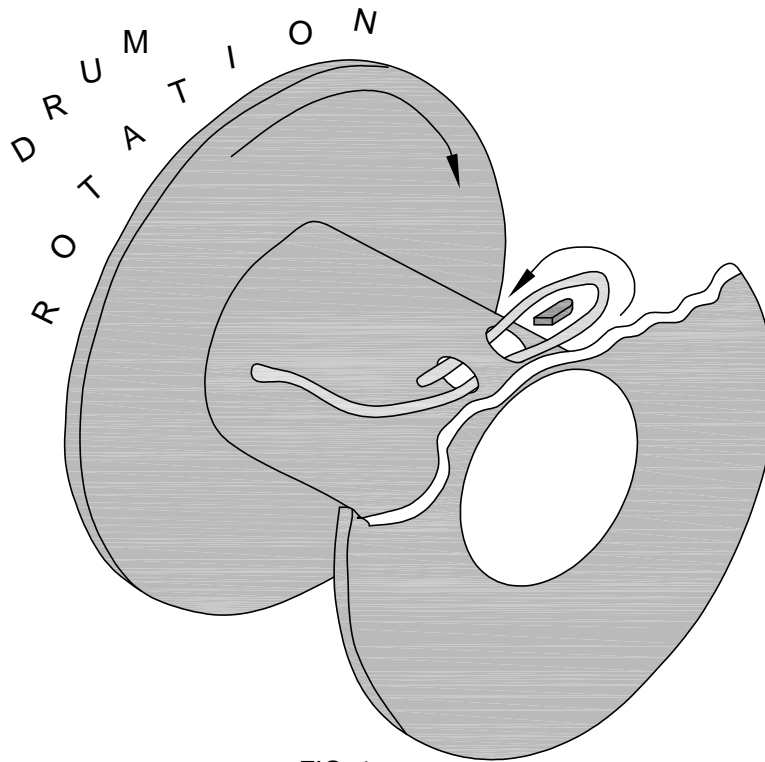


FIG. 1

- 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

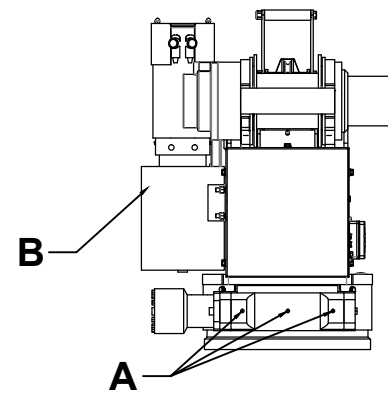
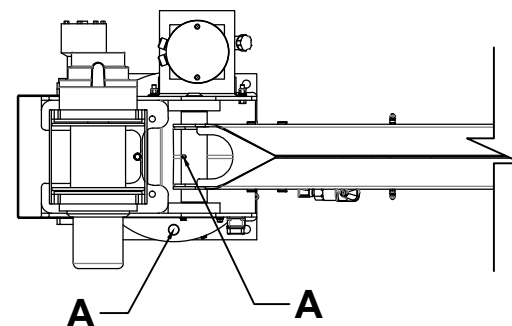
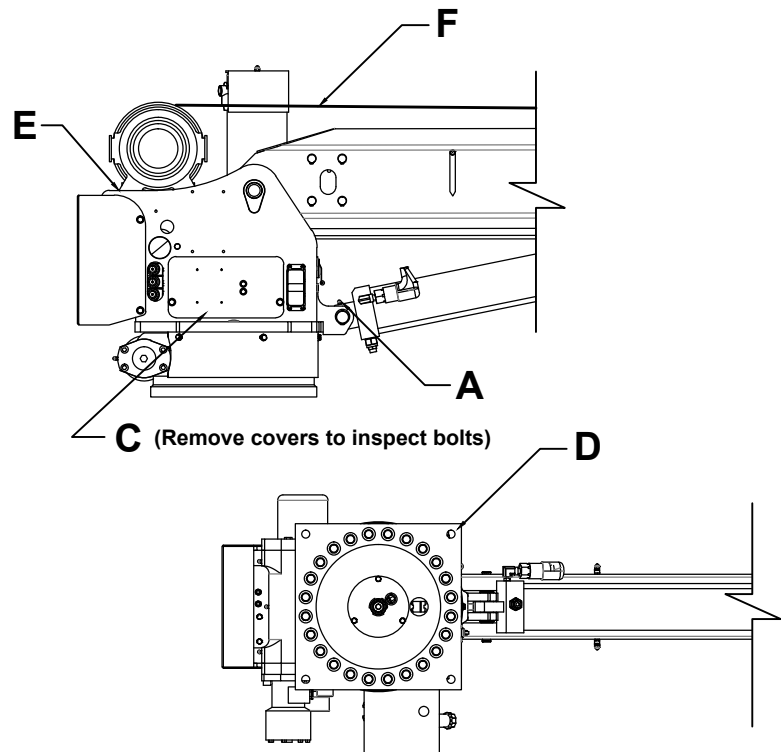
MAINTENANCE

&

SERVICE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO



| Location | Service Required | Note | | Service Interval |
|----------|--|--|--|---|
| A | Grease fitting with pressure grease gun | USE ELECTRICALLY CONDUCTIVE GREASE Failure to use electrically conductive grease may result in intermittent operation of the crane. Example: Fuch's Renolit Aluminum Complex Grease P/N 155250-2 (or equivalent). | | Time of Truck Service |
| B | Fill oil reservoir to "Oil Level" mark with boom down (elevation cylinder retracted) | 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 upper slew-drive bolts | Bolts should be torqued to 60 ft-lbs | | Time of Truck Service |
| D | Check torque of base mounting bolts | Bolts should be torqued to 300 ft-lbs | | Time of Truck Service |
| E | Check torque of winch mounting bolts | Bolts should be torqued to 35 ft-lbs | | Time of Truck Service |
| F | Check wire rope and hook | Rope should be free of kinks and fraying | | Prior to Use (Daily) |



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE

LUBRICATION & MAINTENANCE CHART

ET25/30/36KX

DATE

06-25-25D[^]

SUPERSEDES

01-29-25C

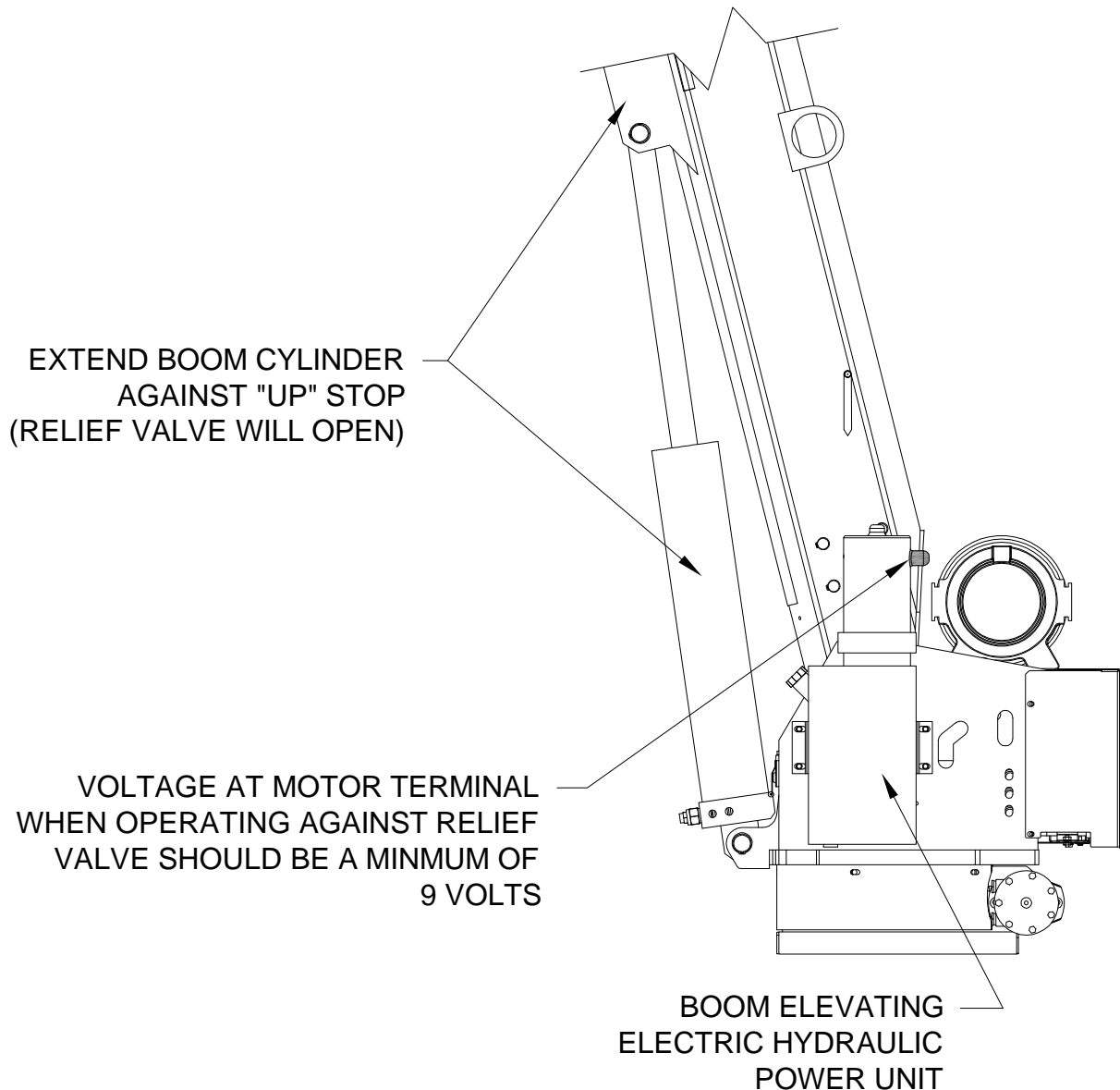
SECTION

C300

24407

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

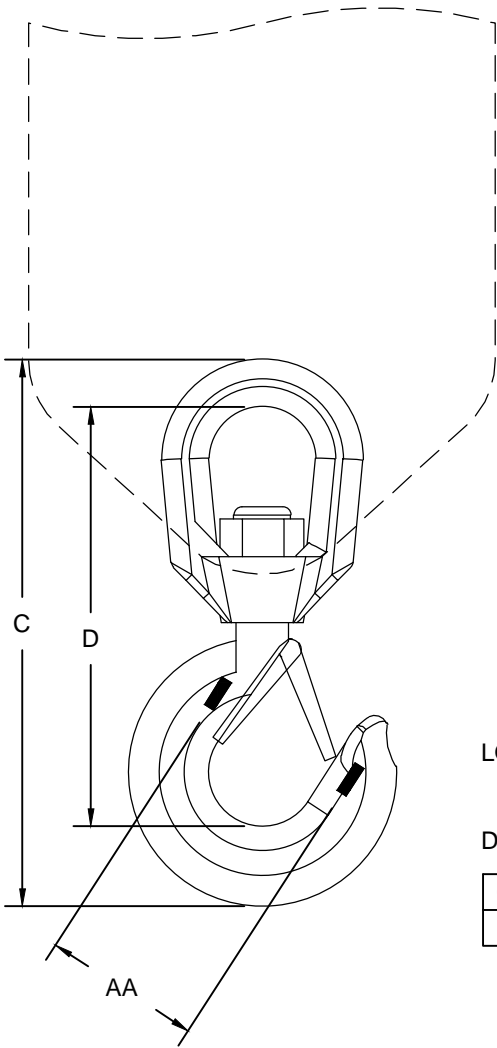
WIRE ROPE ASSEMBLY

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

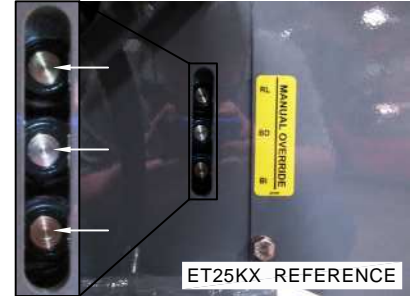
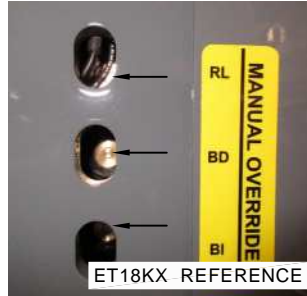
SUPERSEDES
03-12-20C

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).

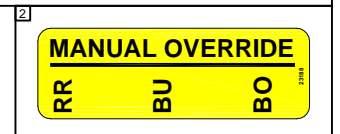
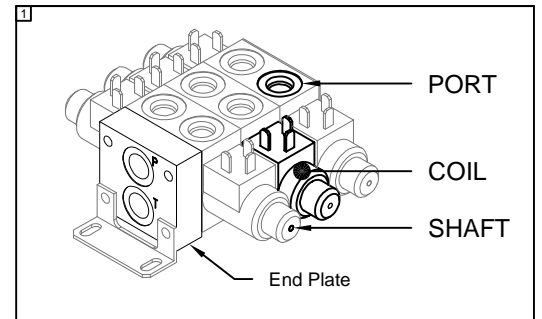
2-STATION FUNCTIONS:

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

3-STATION FUNCTIONS include previous functions, plus:

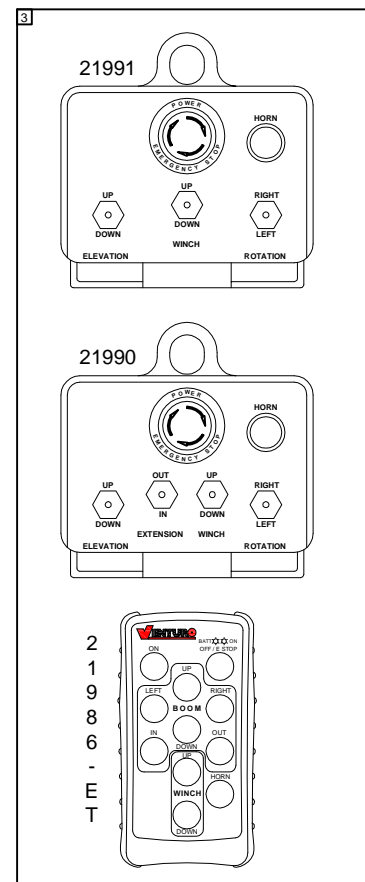
BI = Boom In BO = Boom Out

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 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

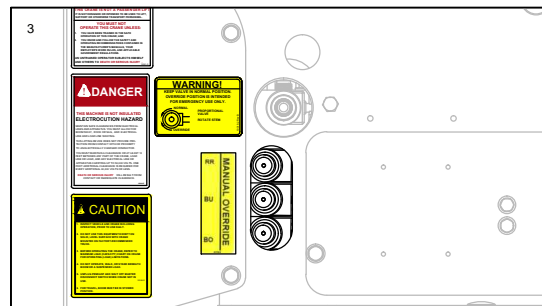
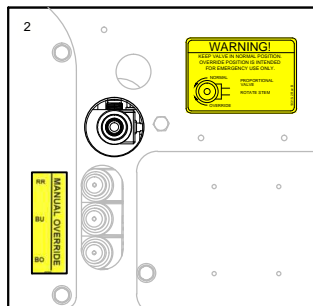
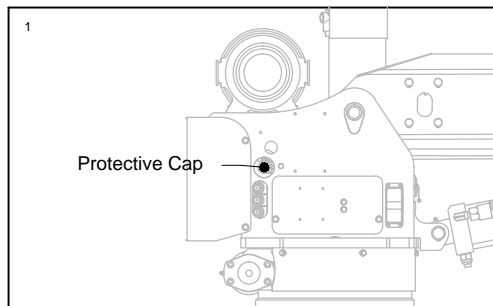
TITLE
MAN. OVERRIDE INSTR.
ET NON-PROP CRANES

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

SECTION
C200
23084

MANUAL OVERRIDE INSTRUCTIONS ET PROPRTIONAL SERIES CRANES

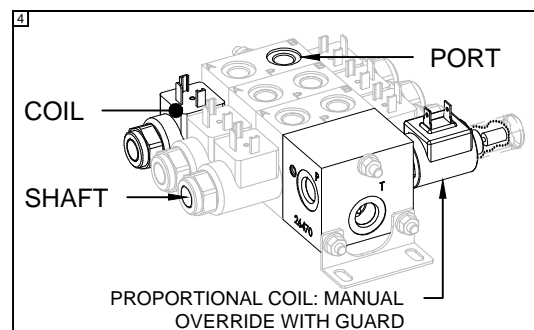
!! READ ALL INSTRUCTIONS BEFORE PERFORMING MANUAL OVERRIDE PROCEDURES !!



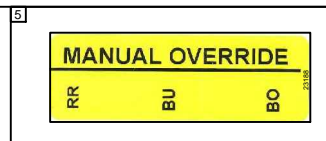
Each valve station incorporates [2] hydraulic ports and [2] coils. Manual override shafts are located in the center of the coils (see figure 4). Manual override decals are placed on each crane near the valve assembly. These decals provide a visual aid that helps the operator determine the function designations (Reference figure 3 & 5).

3-STATION FUNCTIONS:

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

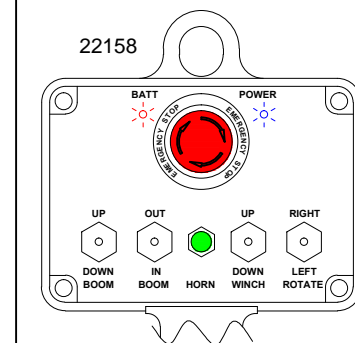
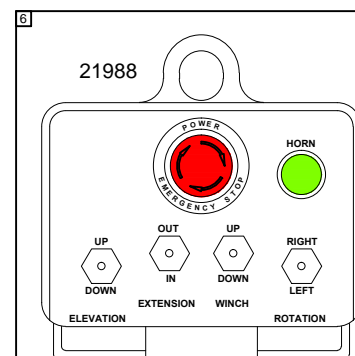


ALWAYS BE SURE TO CHECK HYDRAULIC OIL LEVEL BEFORE PROCEEDING. IT IS RECOMMENDED TO REMOVE ANY ITEM(S) THAT MAY INTERFERE WITH OPERATING THE CRANE MANUALLY. IF POSSIBLE, STRAPS AND/OR HARNESSSES SHOULD BE REMOVED BEFORE OPERATING A CRANE IN MANUAL OVERRIDE !!



Procedure:

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



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAN. OVERRIDE INSTR.

ET25/30/36KXP

DATE
09-16-19

SUPERSEDES
-

SECTION
C200

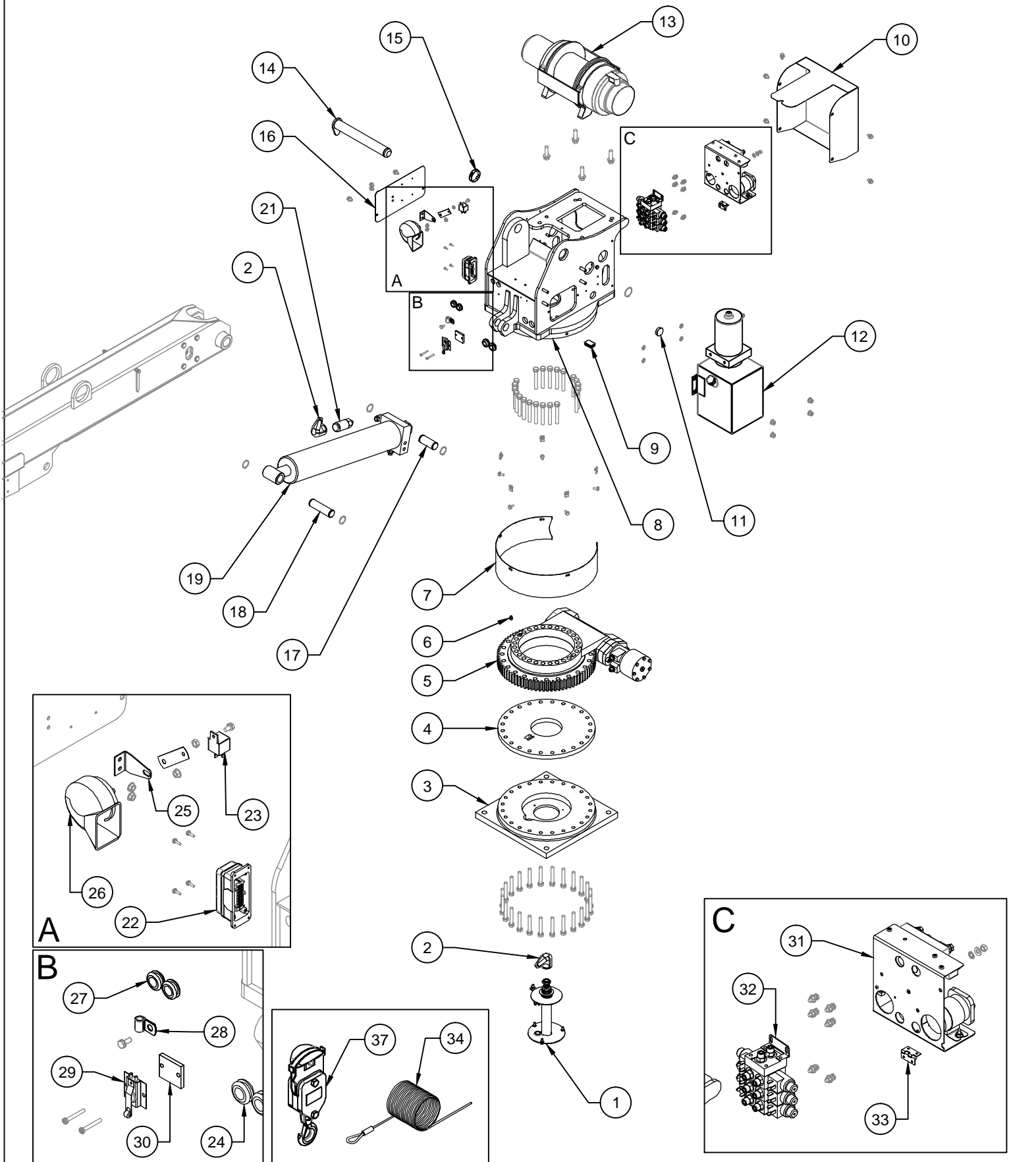
24415

SECTION 400

REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO



ET36KX SHOWN FOR REFERENCE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMT PARTS DWG - MECH

DATE

11-17-23E

SECTION

C400

ET25/30/36KX(P) SERIES

SUPERSEDES

03-15-23D

24392

REPLACEMENT PARTS LIST - ET30KX(P) MECH

| ITEM NO. | ET30KX QTY. | ET30KXP QTY. | PART NO. | DESCRIPTION |
|----------|----------------|-----------------|---------------|--|
| 1 | 1 | 1 | 16780-2P25 | SWIVEL TERMINAL ASS'Y. |
| 2 | 2 | 2 | 17012 | BOOT COVER |
| 3 | 1 | 1 | 27520m | WELDED ASS'Y.: BASE |
| 4 | 1 | 1 | 27520h | SPACER |
| 5 | 1 | 1 | 21418 | SLEWING RING |
| 6 | 1 | 1 | 01327NPT | GREASE FITTING, 1/8-27 NPT |
| 7 | 1 | 1 | 27186 | COVER; SLEWING RING |
| 8 | 1 | 1 | 21435 | WELDED ASS'Y.: HOUSING |
| 9 | 1 | 1 | 28005 | PLUG; RECTANGULAR, HOUSING BASE PLATE |
| 10 | 1 | 1 | 27600 | COVER; REAR, MECHANISM |
| 11 | 1 | 1 | 19122 | HOLE PLUG; 1-1/4" |
| 12 | 1 | 1 | 27512 | HYD POWER UNIT, DUAL-STAGE BOOM ONLY |
| 13 | 1 | 1 | 19813 | ELECTRIC WINCH |
| 14 | 1 | 1 | 21012 | PIVOT PIN, MAIN BOOM PIVOT |
| 15 | 1 | 1 | 26492 | PLUG; Ø2", LOCKING |
| 16 | 1 | 1 | 27000 | PLATE, SIDE COVER |
| 17 | 1 | 1 | 18768 | PIVOT PIN, ELEVATION CYLINDER |
| 18 | 1 | 1 | 18761 | PIVOT PIN, ELEVATION CYLINDER |
| 19 | 1 | 1 | 21752 | ELEVATION CYLINDER |
| 20 | 1 | 1 | 26489 | HYDRAULIC POWER UNIT |
| 21 | 1 | 1 | 17460-2700 | PRESSURE SWITCH, 2700 PSI |
| 22 | 1 | 1 | 22480 | SOCKET ASS'Y. |
| 23 | 1 | 1 | 22739 | RELAY, 12V |
| 24 | 2 | 2 | 20890 | GROMMET; RUBBER, Ø1" X 1/4" X 11/16" |
| 25 | 1 | 1 | 22000 | BRACKET; HORN |
| 26 | 1 | 1 | 21948 | HORN |
| 27 | 2 | 2 | 20889 | GROMMET; RUBBER, Ø7/8" X 1/4" X 5/8" |
| 28 | 1 | 1 | 19269 | CLAMP, CABLE, 1/4" |
| 29 | 1 | 1 | 19904 | BOOM SHUT OFF SWITCH ASS'Y. |
| 30 | 1 | 1 | 20896 | UHMW SPACER - TOP POSIT SWITCH |
| 31 | 1 | 1 | 23154-4 | SUB-ASSY; ELECTRICAL CMPNNT |
| ▲ 32 | 1 | - | 28801 | VALVE BLOCK - 3-SPOOL |
| | - | 1 | 28800 | VALVE BLOCK - 3-SPOOL W/ PROP VALVE |
| 33 | 1 | 1 | 23826 | HINGE |
| 34 | 1 | 1 | 27668-5/16-80 | WIRE ROPE; 5/16 X 80 FT |
| 35 | 1 | 1 | 27604 | WELDED ASS'Y; MOTOR COVER |
| 36 | 2 | 2 | 28380 | SPACER; STAND-OFF, 1/4-20 X 1", 1/2" HEX |



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMT PARTS LIST- MECH

DATE

06-26-25D

SECTION

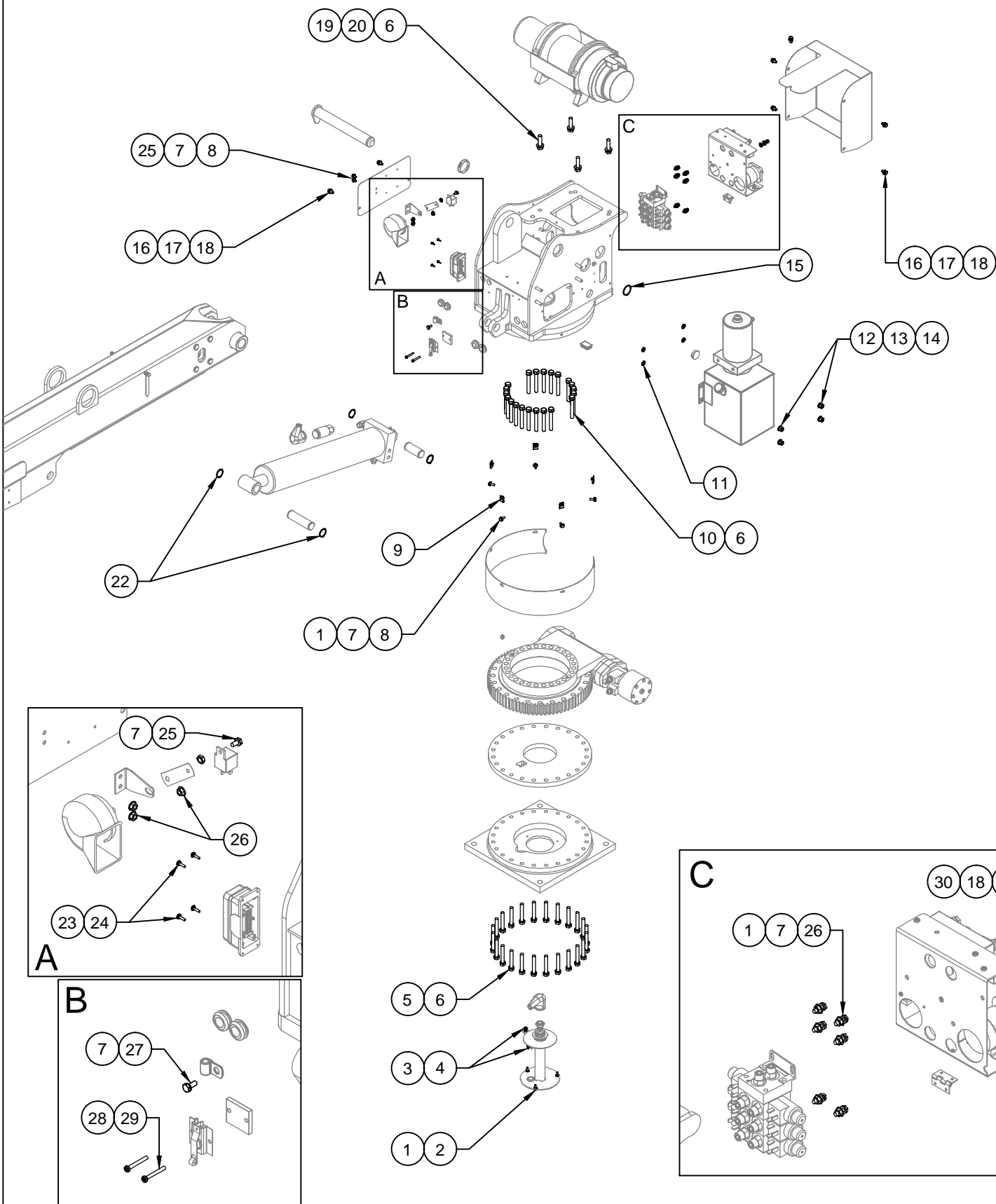
C400

ET30KX(P) SERIES CRANES

SUPERSEDES

05-18-21C

24394



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMT HW DWG - MECH

DATE

03-15-23C

SECTION

C400

ET25/30/36KX(P) SERIES

SUPERSEDES

09-28-22B

24396

REPLACEMENT H/W LIST - ET25/30/36KX(P) MECH

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|--------------------|---|
| 1 | 14 | !HHCS02520075S | HEX HEAD CAP SCREW, 1/4-20 X .75 LG, STAINLESS |
| 2 | 6 | !LWSH-025-STAR-SS | LOCK WSHR, 1/4, EXT STAR , STAINLESS STEEL |
| 3 | 2 | !HHCS03118075-B | HHCS; 5/16-18 X 3/4, BRASS |
| 4 | 2 | !HNUT-03118-B | HEX NUT; 5/16-18, BRASS |
| 5 | 24 | !HHCSM12175080-8.8 | HEX HEAD CAP SCREW; 12MM-1.75MM X 80MM LG, GR. 8.8 |
| 6 | 45 | !LWSH-M12-8.8 | LOCK WASHER; M12, GRADE 8.8 |
| 7 | 15 | !LWSH-025S | LOCK WASHER 1/4 S/S |
| 8 | 7 | !FWSH-025S | FLAT WASHER 1/4 S/S |
| 9 | 5 | !UNUT-02520-LKG | U-NUT; 1/4-20, LCKNG TYPE |
| 10 | 21 | !HHCSM12175090-8.8 | HHCS; 12MM-1.75 X 90MM GR. 8.8, ZINC |
| 11 | 4 | !LWSH-038-STAR | LOCK WSHR; 3/8, GR. 5, ZINC, X-TOOTH |
| 12 | 4 | !FWSH-038SAE | WASHER; FLAT, 3/8 SAE, ZNC PLTD |
| 13 | 4 | !LWSH-038 | LOCK WSHR; 3/8, GR. 5, ZINC |
| 14 | 4 | !LNUT-03816 | LOCK NUT; 3/8-16, GR. 5, ZINC, NYL-NSRT |
| 15 | 1 | !SRNG-150 | SNAP RING FOR 1.5 SHAFT, ZINC PLATED |
| 16 | 7 | !HHCS03118063S | HEX HEAD CAP SCREW, 5/16-18 X 5/8 LG, STAINLESS |
| 17 | 7 | !LWSH-031S | LOCK WASHER 5/16 S/S |
| 18 | 7 | !FWSH-031S | FLAT WASHER 5/16 S/S |
| 19 | 4 | 25921 | SHCS; M12-175 X 50MM, GR. 12.9 |
| 20 | 4 | !FWSH-M12 | WASHER; FLAT, M12 |
| 21 | - | - | - |
| 22 | 4 | !SRNG-125 | SNAP RING 1-1/4 IN - PLATED |
| 23 | 4 | !SHPMS#0832050S | SLOT HEAD, PAN, MACH SCREW #8-32 X 1/2 LG STAINLESS |
| 24 | 4 | !LWSH-#08S | LOCK WASHER, #8 STAINLESS |
| 25 | 1 | !HHCS02520050S | HEX HEAD CAP SCREW, 1/4-20 X 1/2 LG, STAINLESS |
| 26 | 9 | !FNUT-02520-SS | FLANGE NUT; 1/4-20, STAINLESS STEEL |
| 27 | 7 | !HHCS02520063S | HEX HEAD CAP SCREW, 1/4-20 X 5/8LG, STAINLESS |
| 28 | 2 | !PHPMS#1024150S | PHILLIPS HEAD PAN, MACH SCREW, # 10-24 X 1-1/2LG, S/S |
| 29 | 2 | !LWSH-#10S | LOCK WASHER, #10, STAINLESS |
| 30 | 1 | !LWSH-031-STAR-SS | LOCK WSHR, 5/16 EXT STAR , STAINLESS STEEL |
| 31 | 1 | !HNUT-03118S | HEX NUT 5/16-18 STAINLES S |



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT HW LIST - MECH

DATE

03-15-23C

SECTION

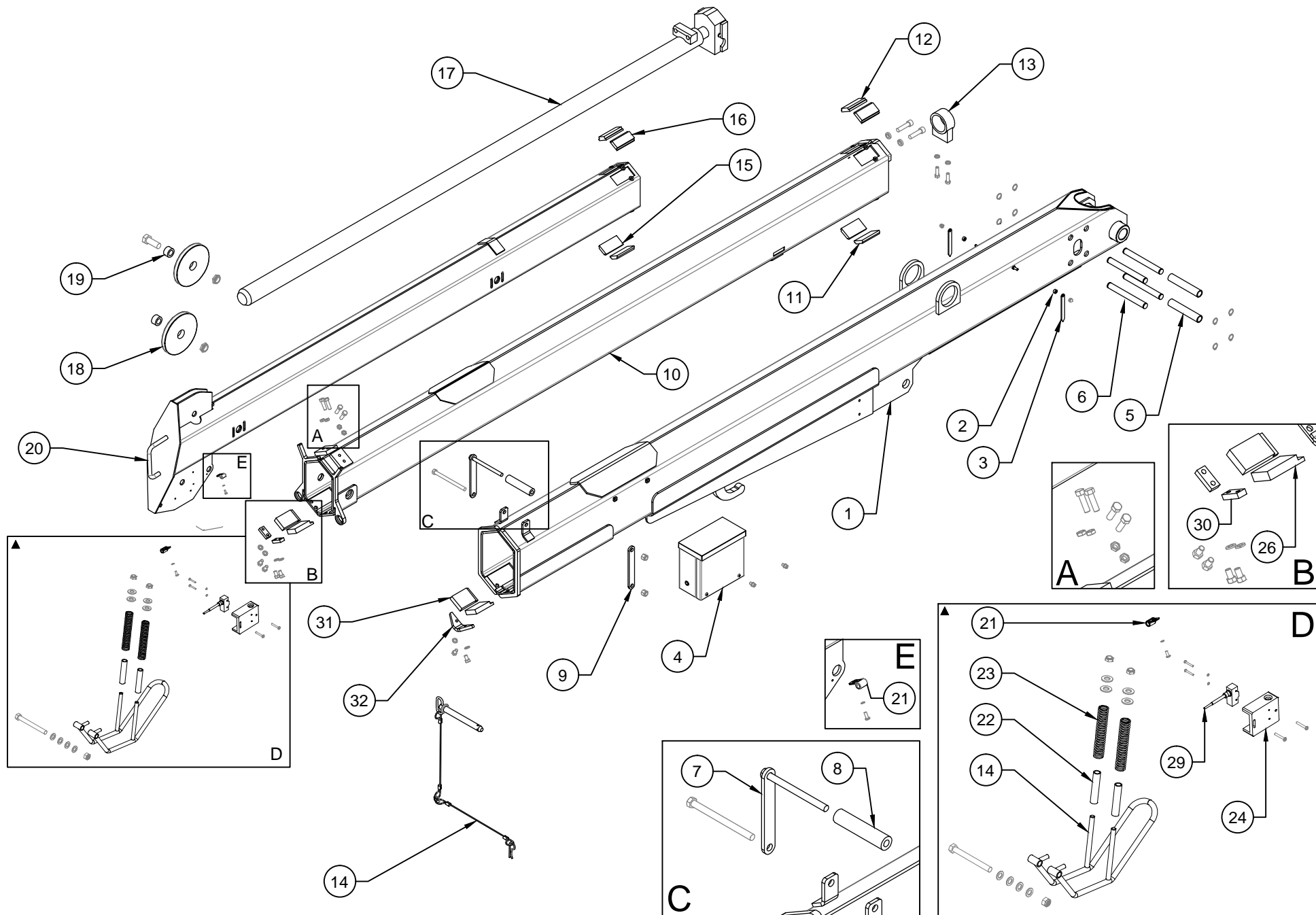
C400

ET25/30/36KX(P) SERIES

SUPERSEDES

09-28-22B

24397



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
RPLCMNT PARTS DWG - 27198 BOOM
ET25/30KX

DATE
01-06-20A
SUPERSEDES
08-27-19

SECTION
C400
24400

REPLACEMENT PARTS LIST - 27198 BOOM

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|----------|--|
| 1 | 1 | 21472 | PRIMARY BOOM WELDED ASSEMBLY |
| 2 | 2 | 22490 | SPACER-BOOM ARROW |
| 3 | 2 | 13459 | ARROW - 3 INCH |
| 4 | 1 | 22683 | ASSY - CORD REEL (LEFT HAND) |
| 5 | 2 | 21498 | ROLLER - EXT CYLINDER |
| 6 | 4 | 21497 | THRUST PIN - EXTENSION CYLINDER |
| 7 | 1 | 21935 | WIRE ROPE GUIDE - WELDED |
| 8 | 1 | 21560 | ROLLER, UHMW GUIDE |
| 9 | 1 | 21936 | FLAT, MOUNT; WIRE ROPE GUIDE |
| 10 | 1 | 27108 | SECONDARY BOOM WELDED ASSEMBLY |
| 11 | 2 | 23217-9 | UHMW, A,3.19,1.75,0.44 |
| 12 | 2 | 23217-8 | UHMW, A,3.19,1.75,0.50 |
| 13 | 2 | 20061-1C | GUIDE, EXTENSION CYLINDER |
| 14 | 1 | 21870 | ANTI TWO BLOCK CAGE ASSY- POWDERCOAT BLACK |
| 15 | 2 | 23217-7 | UHMW, A,3.19,1.50,0.44 |
| 16 | 2 | 23217-6 | UHMW, A,3.19,1.50,0.50 |
| 17 | 1 | 20061-1B | EXTENSION CYLINDER - SINGLE STAGE |
| 18 | 2 | 27001 | POLY CABLE SHEAVE |
| 19 | 2 | 23924 | SPACER, SHEAVE |
| 20 | 1 | 27110 | TERTIARY BOOM ASSEMBLY |
| 21 | 2 | 19269 | CLAMP,CABLE - 1/4 IN. |
| 22 | 2 | 27579B | SPRING LOCATING TUBE ET/HT25/30,HT40/50 |
| 23 | 2 | 27586 | SPRING, ZINC-PLATED |
| 24 | 1 | 21237 | HOUSING, A2B SWITCH, MADE FROM BLACK NYLON |
| 25 | - | - | - |
| 26 | 2 | 23217-10 | UHMW, B,3.19,1.75,0.63 |
| 27 | - | - | - |
| 28 | - | - | - |
| 29 | 1 | 19376 | ANTI TWO BLOCK SWITCH |
| 30 | 2 | 23119 | BEARING RETAINING BLOCK |
| 31 | 2 | 23217-3 | UHMW, B,3.19,2.13,0.63 |
| 32 | 1 | 23183 | V-BLOCK SLIDER |



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMT PART LIST - 27198

ET25/30KX

DATE

01-06-20A

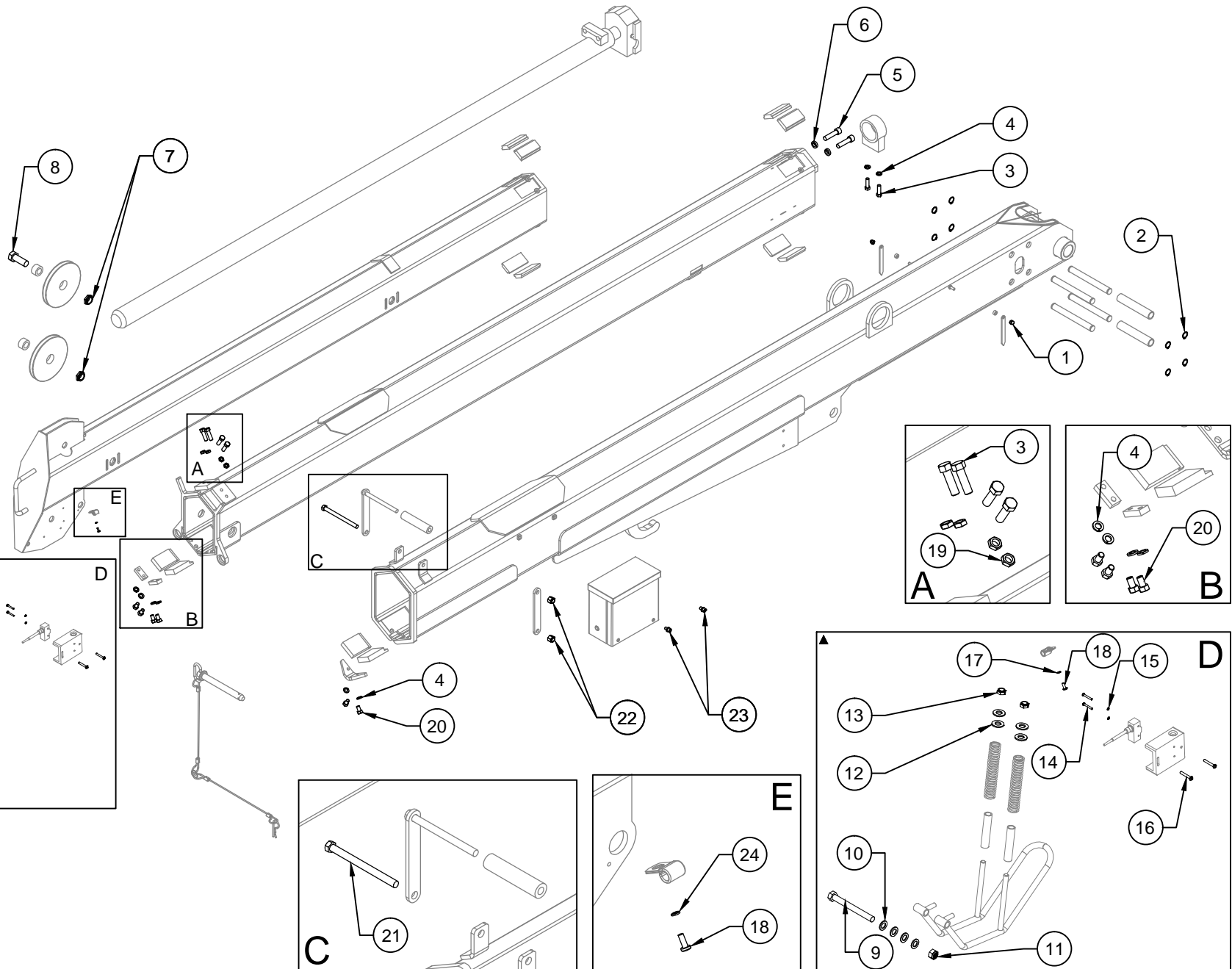
SUPERSEDES

09-04-19

SECTION

C400

24401



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
RPLCMNT HARDWARE DWG - 27198 BOOM
ET25/30KX

DATE
01-06-20A
SUPERSEDES
08-27-19

SECTION
C400
24398

REPLACEMENT HARDWARE LIST - 27198 BOOM

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|-----------------|--|
| 1 | 2 | !ANUT-02520S | ACORN NUT; 1/4-20, SS |
| 2 | 8 | !SRNG-075 | SNAP RING, PLATED 3/4 |
| 3 | 6 | !HHCS03816125 | HHCS; 3/8-16 X 1-1/4, GR. 5, ZINC |
| 4 | 8 | !LWSH-038 | LOCK WSHR; 3/8, GR. 5, ZINC |
| 5 | 2 | !SHCS05013200 | SHCS; 1/2-13 X 2 |
| 6 | 2 | !LWSH-050-HC | LOCK WSHR; 1/2, GR. 5, ZINC, HI-CLLR |
| 7 | 2 | !LNUT-07510 | NYLOC LOCK NUT, FULL, 3/4-10, GR5, ZINC PLATED |
| 8 | 1 | 17059-6 | SHEAVE AXLE; SS, HHCS 07510200, 1" |
| 9 | 1 | !HHCSM12M120 | HHCS; 12MM X 120MM, GR. 8.8, ZINC |
| 10 | 4 | 12534-4 | BUSHING, 1/2 ID 7/8 OD 14G W/PLATING |
| 11 | 1 | !LNUTM12X175 | LOCK NUT; 12MM X 1.75MM, GR. 5, ZINC, NYL-NSRT |
| 12 | 4 | !FWSH-050SAE | WASHER; FLAT, 1/2 SAE, ZNC PLTD |
| 13 | 2 | !JNUT-04414N | JAM NUT; 7/16-14, GR. 5, ZINC, NYL-NSRT |
| 14 | 2 | !PHPMS#0632100S | PHILLIPS HEAD, PAN, MACH SCREW #6-32 X 1.00LG SS |
| 15 | 2 | !LWSH-#06S | LOCK WASHER, #6, STAINLESS |
| 16 | 2 | !PHPMS#1024125S | PHILLIPS HEAD PAN MACH SCREW, #10-24 X 1.25LG SS |
| 17 | 1 | !LWSH-#10S | LOCK WASHER, #10, STAINLESS |
| 18 | 1 | !PHPMS#1024050S | PHILLIPS HEAD PAN, MACH SCREW, #10-24 X 1/2LG SS |
| 19 | 4 | !JNUT-03816 | JAM NUT; 3/8-16, GR. 5, ZINC |
| 20 | 8 | !HHCS03816075 | HHCS 3/8-16 X 3/4 GR.5 |
| 21 | 1 | !HHCS04414550 | HHCS 7/16-14 X 5-1/2 GR5 |
| 22 | 2 | !LNUT-04414 | LOCK NUT; 7/16-14, GR. 5 ZINC, NYL-NSRT |
| 23 | 2 | !SHCS03118050 | S.H.CAP SCREW 5/16-18 X 1/2 |



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT HW LIST - 27198 BOOM

DATE

01-06-20A

SECTION

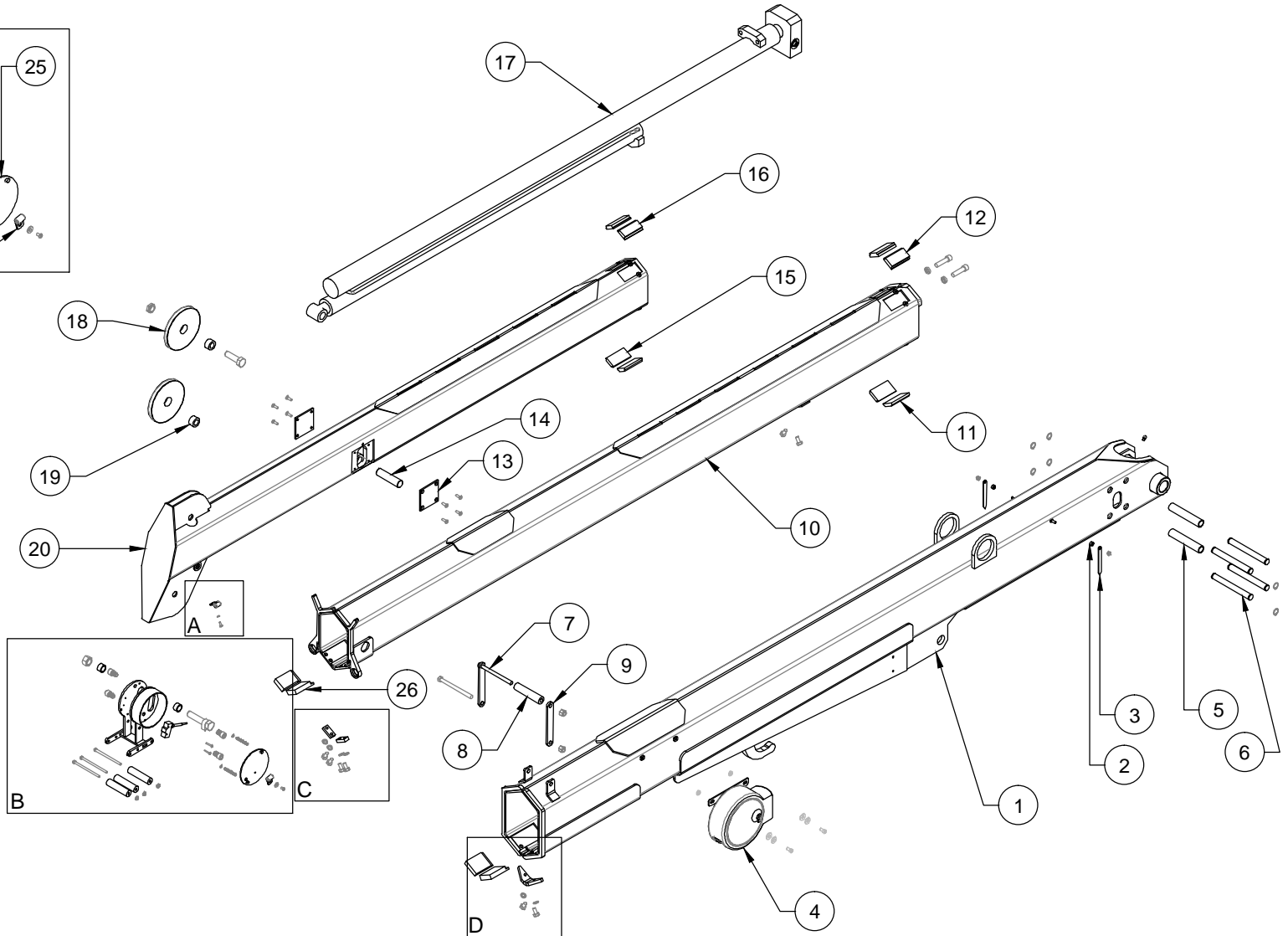
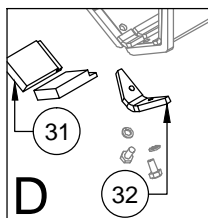
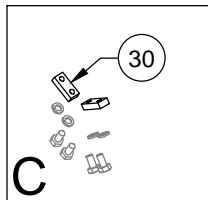
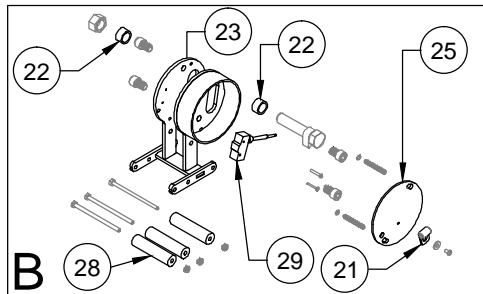
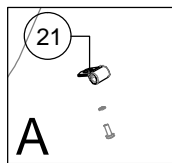
C400

SUPERSEDES

09-09-19

ET25/30KX SERIES CRANES

24406



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS DWG - 28301 BOOM
ET25/30/36KX SERIES CRANES

DATE
02-08-21B
SUPERSEDES
01-08-20A

SECTION
C400
24402

REPLACEMENT PARTS LIST - 28301 BOOM

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|----------|---|
| 1 | 1 | 21472 | PRIMARY BOOM WELDED ASSEMBLY |
| 2 | 2 | 22490 | SPACER-BOOM ARROW |
| 3 | 2 | 13459 | ARROW - 3 INCH |
| 4 | 1 | 28190-2 | COMPLETE CORD REEL |
| 5 | 2 | 21498 | ROLLER - EXT CYLINDER |
| 6 | 4 | 21497 | THRUST PIN - EXTENSION CYLINDER |
| 7 | 1 | 21935 | WIRE ROPE GUIDE - WELDED |
| 8 | 1 | 21560 | ROLLER, UHMW GUIDE |
| 9 | 1 | 21936 | FLAT, MOUNT; WIRE ROPE GUIDE |
| 10 | 1 | 27165 | SECONDARY BOOM WELDED ASSEMBLY |
| 11 | 2 | 23217-9 | UHMW, A,3.19,1.75,0.44 |
| 12 | 2 | 23217-8 | UHMW, A,3.19,1.75,0.50 |
| 13 | 2 | 23116 | PIN BLOCK REINFORCING |
| 14 | 1 | 21941 | PIN; EXTENSION CYLINDER |
| 15 | 2 | 23217-7 | UHMW, A,3.19,1.50,0.44 |
| 16 | 2 | 23217-6 | UHMW, A,3.19,1.50,0.50 |
| 17 | 1 | 21753 | EXTENSION CYLINDER - DUAL |
| 18 | 2 | 27001 | POLY CABLE SHEAVE |
| 19 | 2 | 23924 | SPACER, SHEAVE |
| 20 | 1 | 27167 | TERTIARY BOOM ASSEMBLY |
| 21 | 2 | 19269 | CLAMP,CABLE - 1/4 IN. |
| 22 | 2 | 27476 | SPACER/PIVOT, COMPACT A2B |
| 23 | 2 | 27468 | WLD MNT - COMPACT A2B FRAME |
| 24 | - | - | - |
| 25 | 2 | 27473 | COVER PLATE; COMPACT A2B |
| 26 | 2 | 23217-10 | UHMW, B,3.19,1.75,0.63 |
| 27 | - | - | - |
| 28 | 3 | 27475 | WIRE ROPE GUIDE ROLLER Ø7/8 BLK DELRIN, COMPACT A2B |
| 29 | 1 | 19376 | ANTI TWO BLOCK SWITCH |
| 30 | 2 | 23119 | BEARING RETAINING BLOCK |
| 31 | 2 | 23217-3 | UHMW, B,3.19,2.13,0.63 |
| 32 | 1 | 23183 | V-BLOCK SLIDER |

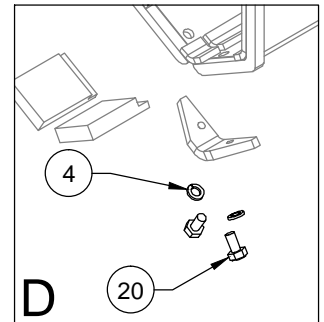
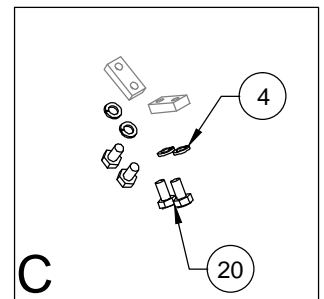
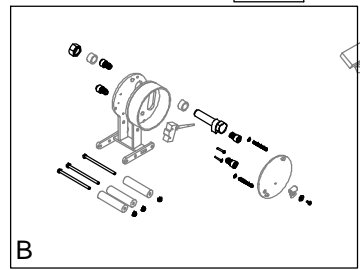
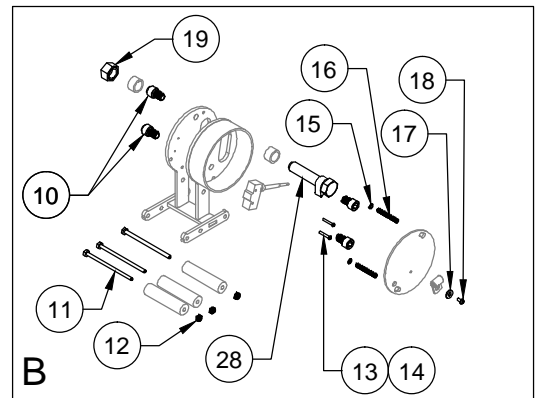
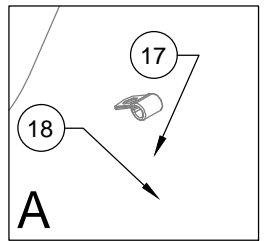
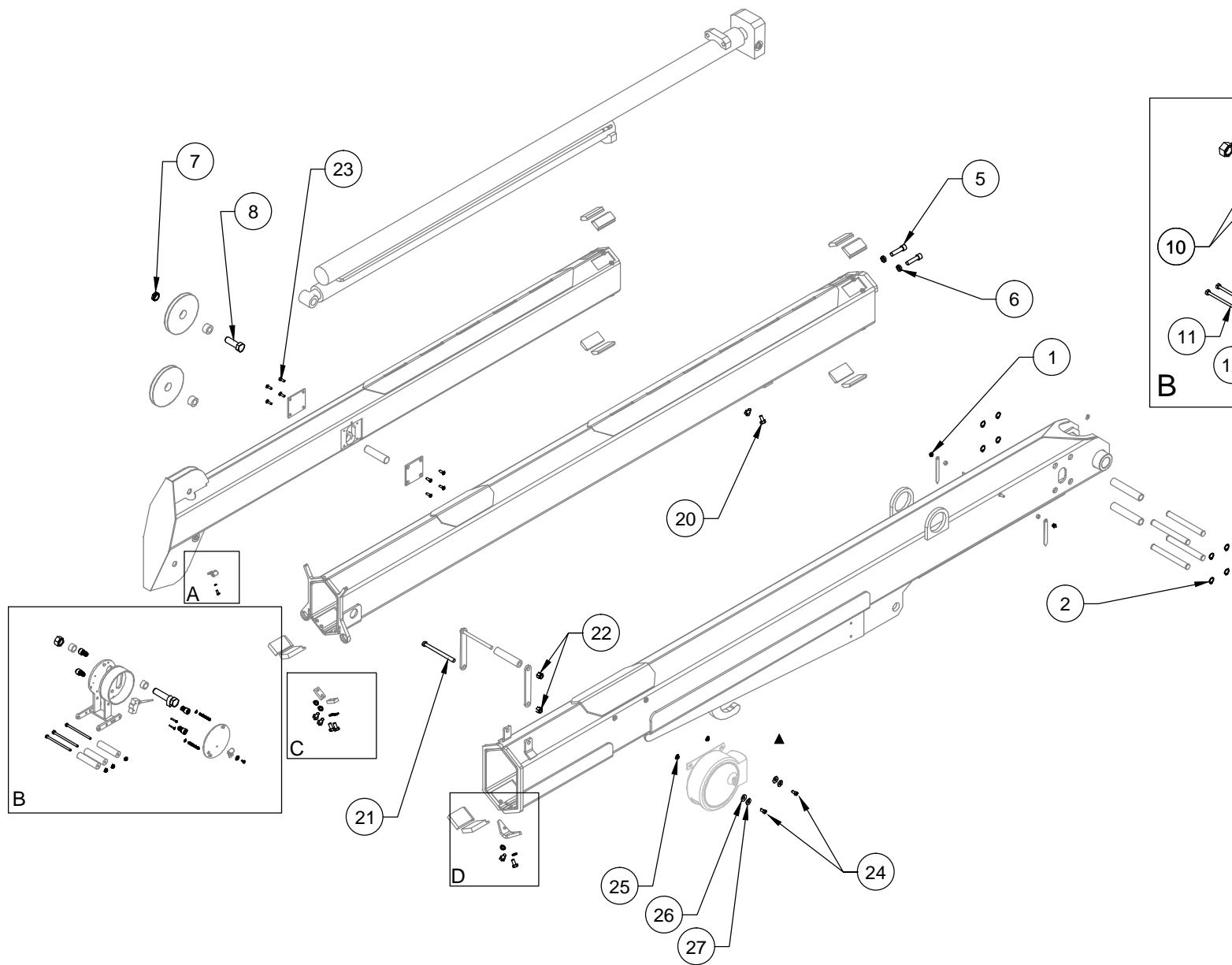


VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
RPLCMT PART LIST - 28301
ET25/30/36KX SERIES

DATE
03-26-24C
SUPERSEDES
02-08-21B

SECTION
C400
24403



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

| | |
|-------|-----------------------------------|
| TITLE | RPLCMNT HARDWARE DWG - 28301 BOOM |
| | ET25/30/36KX |

| | | | |
|------------|-----------|---------|-------|
| DATE | 02-08-21B | SECTION | C400 |
| SUPERSEDES | 01-08-20A | | 24404 |

REPLACEMENT HARDWARE LIST - 28301 BOOM

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|------------------|--|
| 1 | 2 | !ANUT-02520S | ACORN NUT; 1/4-20, SS |
| 2 | 8 | !SRNG-075 | SNAP RING, PLATED 3/4 |
| 3 | - | - | - |
| 4 | 6 | !LWSH-038 | LOCK WSHR; 3/8, GR. 5, ZINC |
| 5 | 2 | !SHCS05013200 | SHCS; 1/2-13 X 2 |
| 6 | 2 | !LWSH-050-HC | LOCK WSHR; 1/2, GR. 5, ZINC, HI-CLLR |
| 7 | 1 | !LNUT-07510 | NYLOC LOCK NUT, FULL, 3/4-10, GR5, ZINC PLATED |
| 8 | 1 | 17059-6 | SHEAVE AXLE; SS, HHCS 07510200, 1" |
| 9 | 1 | !HHCS07510350 | HHCS; 3/4-10 X 3-1/2, GR. 5, ZINC |
| 10 | 4 | 27467 | SHCS, NYLON, BLACK, 1/2-13 X 3/4 LONG |
| 11 | 3 | !HHCS02520450 | HHCS 1/4-20 X 4-1/2 LG |
| 12 | 3 | !JNUT-02520N | JAM NUT 1/4-20 W/ NYLON INSERT |
| 13 | 2 | !PHCS#0632100 | PHCS 6-32 X 1 |
| 14 | 2 | !LWSH-#06 | LOCK WSHR; #06, GR. 5, ZINC |
| 15 | 2 | 23379 | WASHER, NYLON, BLACK |
| 16 | 2 | !SHCS02520200SS | SHCS 1/4-20 X 2.00" LG, STAINLESS STEEL |
| 17 | 2 | !FWSH-025 | WASHER; FLAT, 1/4 USS, ZNC PLTD |
| 18 | 2 | !PHCS#1032038 | PHCS; 10-32 X 3/8, GR. 5, ZINC, SLOT |
| 19 | 1 | !JNUT-07510N | JAM NUT; 3/4-10, GR. 5 |
| 20 | 8 | !HHCS03816075 | HHCS 3/8-16 X 3/4 GR.5 |
| 21 | 1 | !HHCS04414550 | HHCS 7/16-14 X 5-1/2 GR5 |
| 22 | 2 | !LNUT-04414 | LOCK NUT; 7/16-14, GR. 5 ZINC, NYL-NSRT |
| 23 | 8 | !CACCS02520063-N | CNTRSNK ALLN HED CAP SCREW; 1/4-20 X 5/8 |
| 24 | 2 | !SHCS03118063S | SHCS; 5/16-18 X 5/8" LG, S/S |
| 25 | 2 | 28198 | INSULATING SLEEVE WASHER - 5/16" |
| 26 | 2 | 01016 | FIBER WASHER |
| 27 | 2 | !FWSH-031 | WASHER, FLAT; 5/16" SAE |
| 28 | 1 | 28362 | ASSY, WELDED, CAM & HHCS CA2B CUT-OUT |



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT HW LIST - 28301 BOOM

DATE

02-08-21B

SECTION

C400

SUPERSEDES

01-08-20A

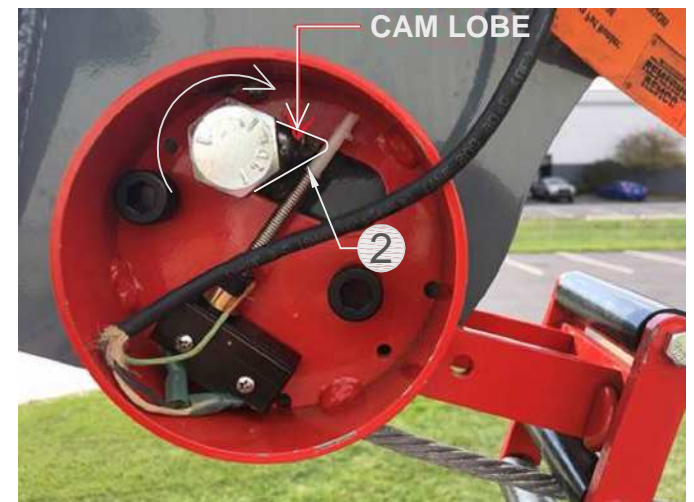
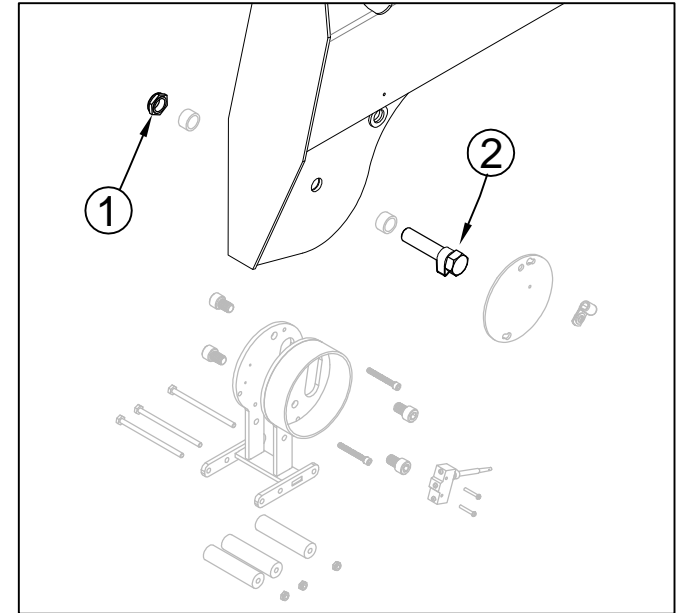
ET25/30/36KX SERIES CRANES

24405

Compact A2B with Stowage Cut-out, Install/Adjustment Instructions (Kit: 28375)

The purpose of the Stowage Cut-out system is to prevent a situation whereby the wire rope is over-tensioned when the load block / wire rope is attached to the stowage hook on the bottom of the primary boom assembly. **However, the OPERATOR is ultimately responsible for ensuring that the wire rope is not over-tensioned when stowing the wire rope and boom assembly into the boom rest.**

1. Initially, apply a light torque to the nyloc full nut Item #1 (P/N !LNUT-07510), such that the axle bolt & cam welded assembly can be rotated / adjusted in the steps below.
2. Position the cam **lobe** Item #2 (P/N 28362) so that it is pointing towards the housing / mechanism
3. Hang the load block on the open stowage hook under the primary boom.
4. Thread the wire rope through the load block in a two-line configuration; the wire rope end / eyelet is pinned in the standard position on the tertiary boom tip
5. Actuate the Winch Up function until the load block and wire rope are **taut** enough to prevent the load block from bouncing during transit, **but do not tighten excessively so as to prevent damage to the wire rope.**
6. Rotate the axle bolt & cam welded assembly towards the housing (clockwise in standard configuration) until the cam lobe makes contact with and trips the wobble micro switch and actuates the A2B function.
7. Once adjusted, torque the nyloc full nut (Item #1) to 100 ft*lbs to prevent further rotational movement of the axle bolt & cam welded assembly.
8. Test the A2B trip-point by slackening and tightening the wire rope / load block assembly by actuating Winch Up/Down. **NOTE: The point at which the A2B trips WILL vary to some degree, depending upon the winch up speed. It is recommended to actuate the winch up function slowly, which will yield a consistent and repeatable result, in terms of wire rope tension when stowed.**



Contact Ventura Tech Support for assistance. 1-800-226-2238 ext. 124



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

A2B Stowage Cut-out

ET/HT Cranes w/ Comp. A2B

DATE

10-04-21B

SUPERSEDES

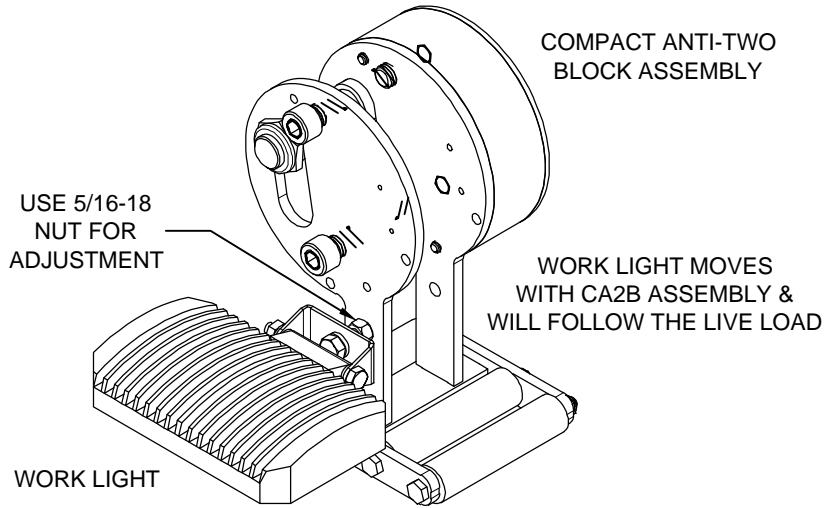
08-03-21A

SECTION

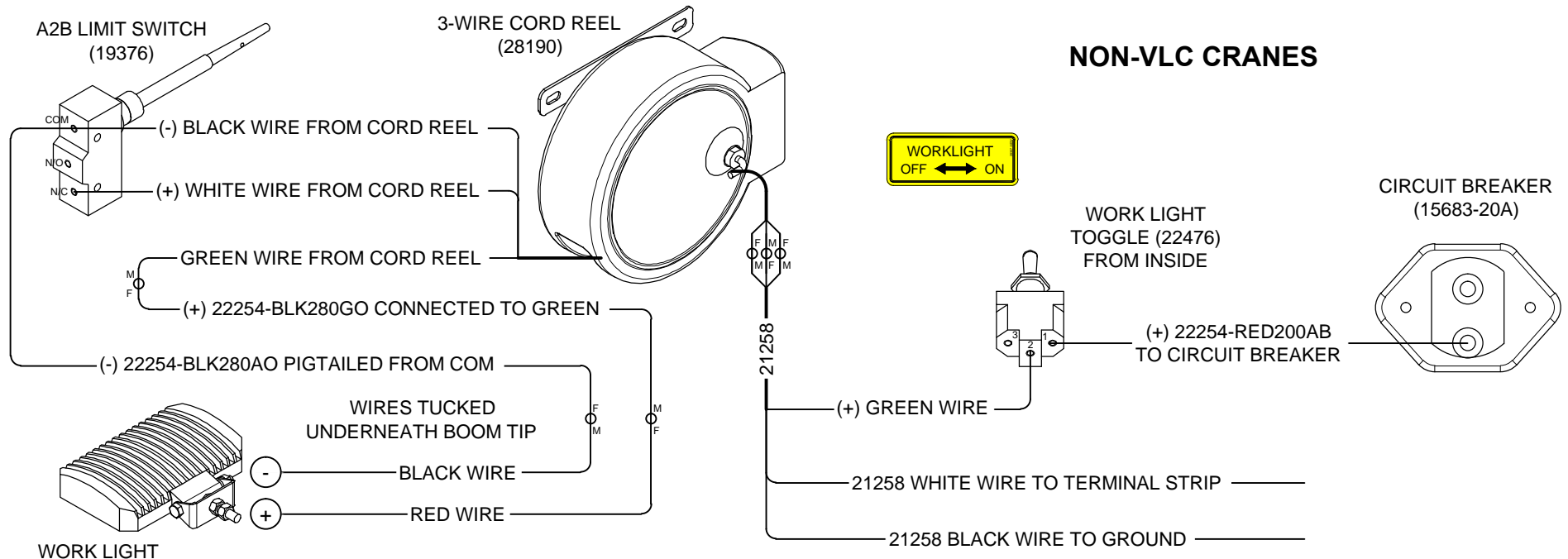
C400

28239

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



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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

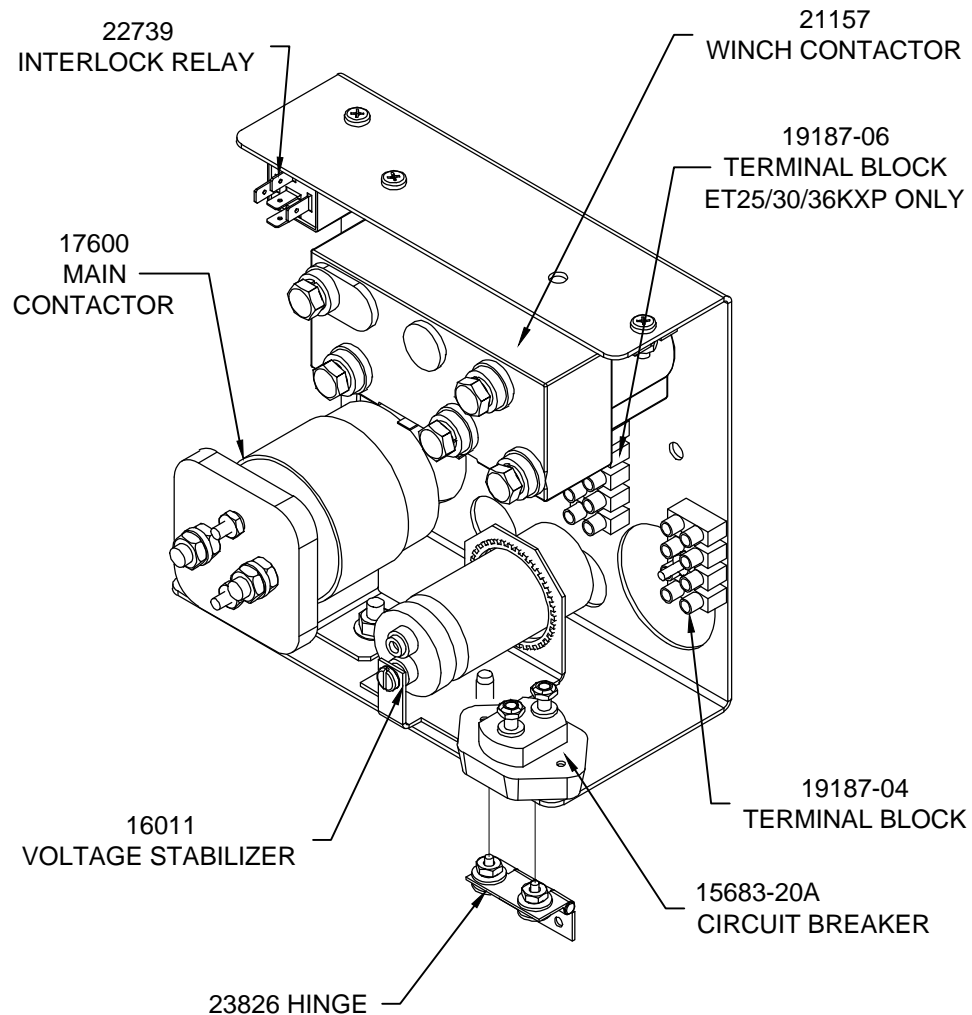
TITLE
WORK LIGHT INSTALLATION, 3-WIRE CORD REEL
NON-VLC CRANES

DATE
02-10-21
SUPERSEDES
-

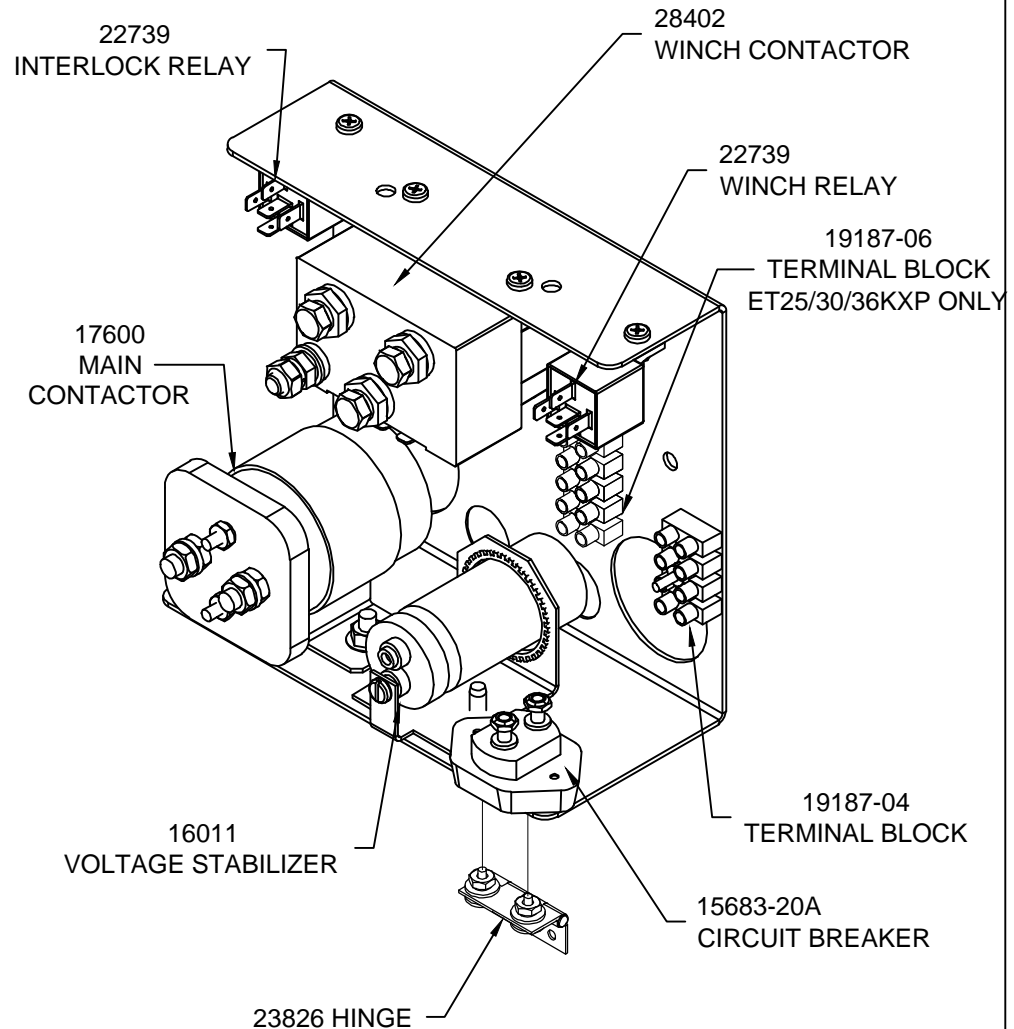
SECTION
C400
28199

23154-4 ELECTRICAL COMPONENT ASSEMBLY

WITH 21157 WINCH CONTACTOR FOR SERIES-WOUND
OR PERMANENT MAGNET MOTOR



WITH 28402 WINCH CONTACTOR AND RELAY
FOR PERMANENT MAGNET MOTOR ONLY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

23154-4 ELECTRICAL COMPONENT ASS'Y

ET25/30/36KX(P)

DATE

04-26-22A

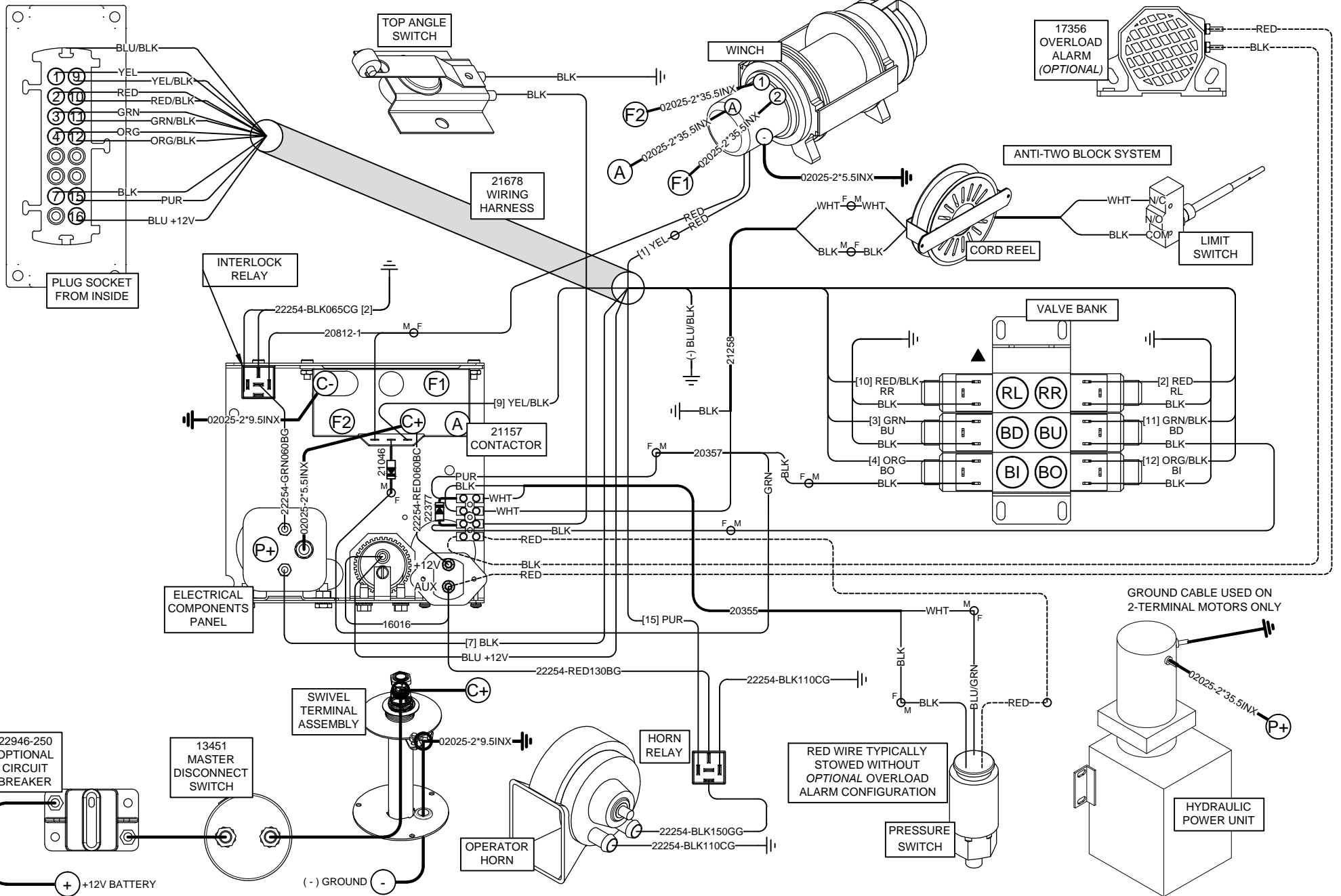
SUPERSEDES

01-07-20

SECTION

C400

28302



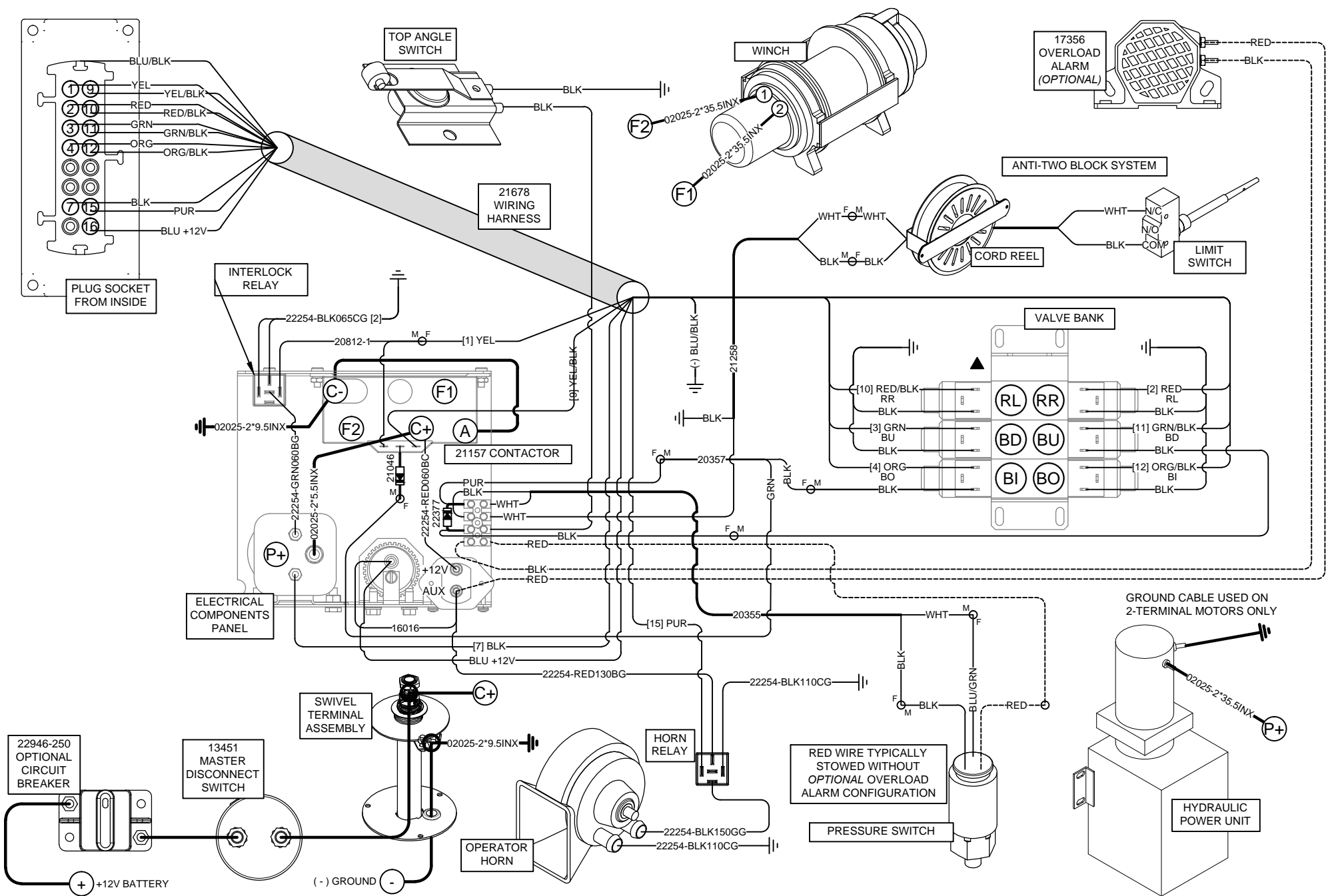
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
WIRING DIAGRAM
ET25/36
NON-PROPORTIONAL

WINCH: WARN (SERIES WND)
CONTACTOR: 21157

DATE
04-09-25H
C400
SUPERSEDES
08-29-23G

26529

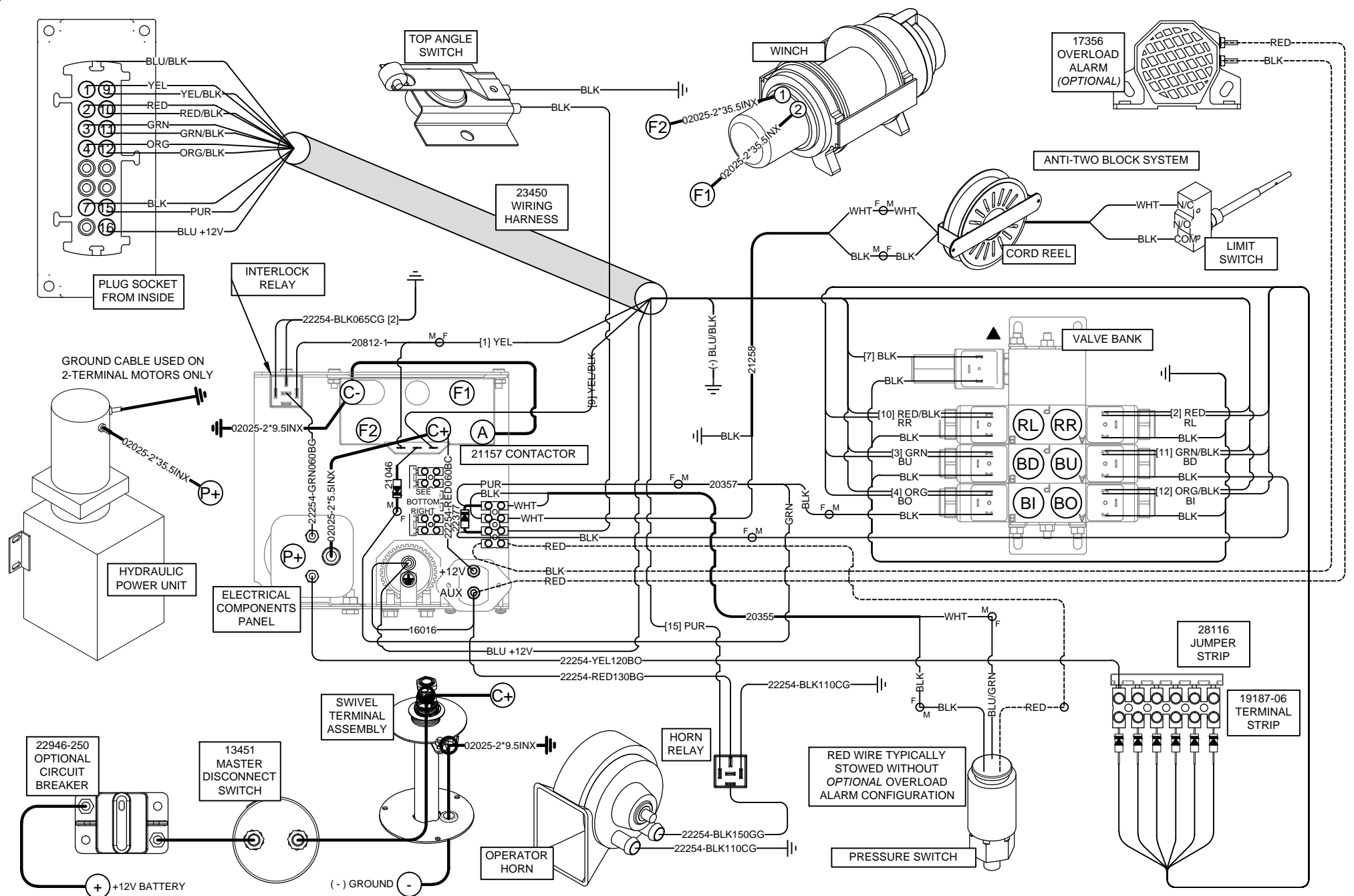


VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
WIRING DIAGRAM
ET25/36
NON-PROPORTIONAL

WINCH: COMEUP (PERM MAG)
CONTACTOR: 21157

| | |
|-------------------------|-----------------|
| DATE 04-09-25C | SECTION C400 |
| SUPERSEDES 08-29-23B | 26560 |



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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

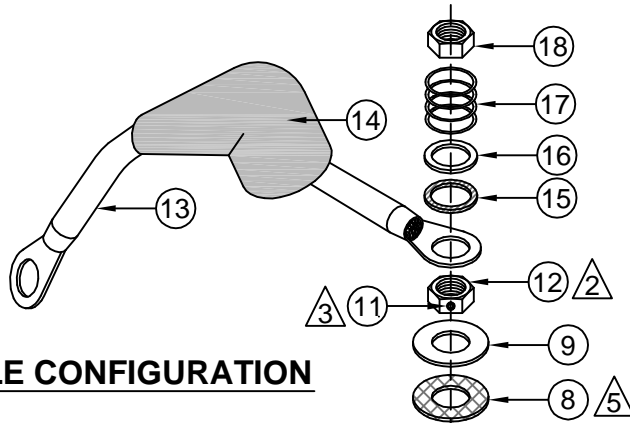
| | | | | | | 16780 BILLS OF MATERIALS | | |
|----------------|-------------------------------------|--|---|--|-------------|--------------------------|-----------------|--|
| Quill Rotation | Slew Rotation Single Pole Slip-Ring | Slew Rotation 2-Pole Slip-Ring (ET6K ONLY) | Slew Rotation 2-Pole Slip-Ring (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

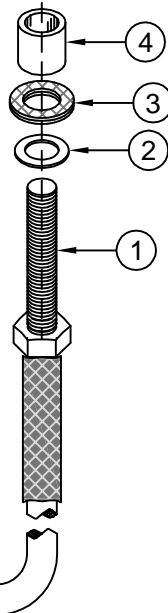
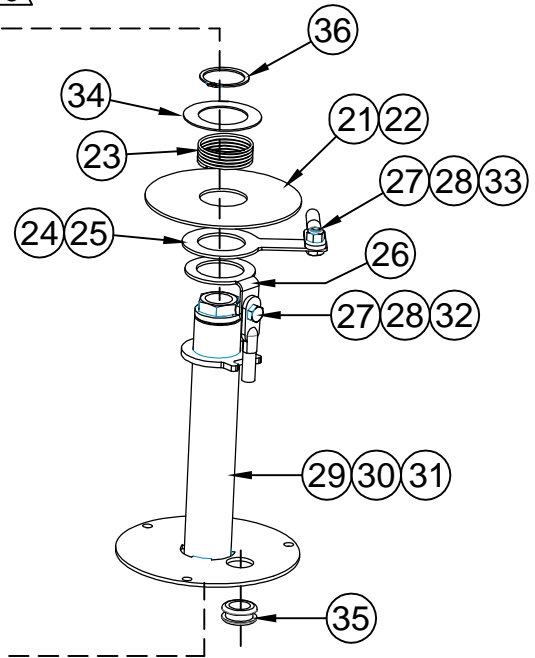
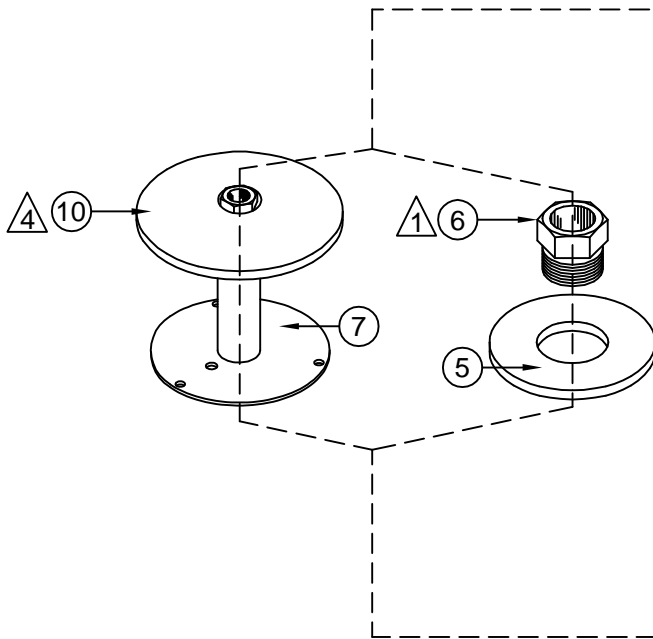
| TITLE | DATE | SECTION |
|-----------------------------|------------------------|---------|
| 16780 REPLACEMENT PARTS | 03-29-19A | C400 |
| ET6/8/12/16/18/25/30/36K(X) | SUPERSEDES 04-27-18 | 21292 |

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



SINGLE-POLE CONFIGURATION

2-POLE CONFIGURATION



- 1 LOCTITE 242 BLUE
& TORQUE TO 30 FT-LBS
FOR QUILL APPLICATIONS
- 2 TORQUE TO 15 FT-LBS
- 3 LOCTITE 242 BLUE
- 4 STRETCH RUBBER WATER-SHED DISC
P/N 27156 AROUND **'OUTSIDE'** OF THE
INVERTED FLARE NUT OF
CANDLESTICK, AS SHOWN
- 5 ITEM #8, FIBER WASHER, 5/8 I.D.
'MUST' SIT DIRECTLY ON TOP OF THE
INVERTED FLARE NUT ITEM #6.

THE 16780 SWIVEL TERMINAL CAN
REPLACE & INTERCHANGE WITH
THE 14231 SWIVEL TERMINAL, FOR
ET20,000 & ET20K(X) CRANES.



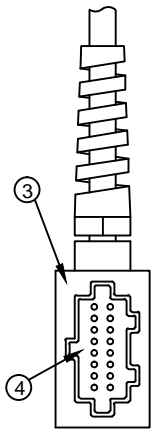
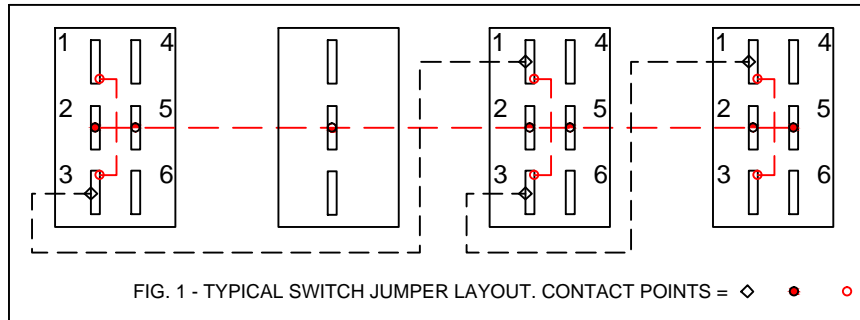
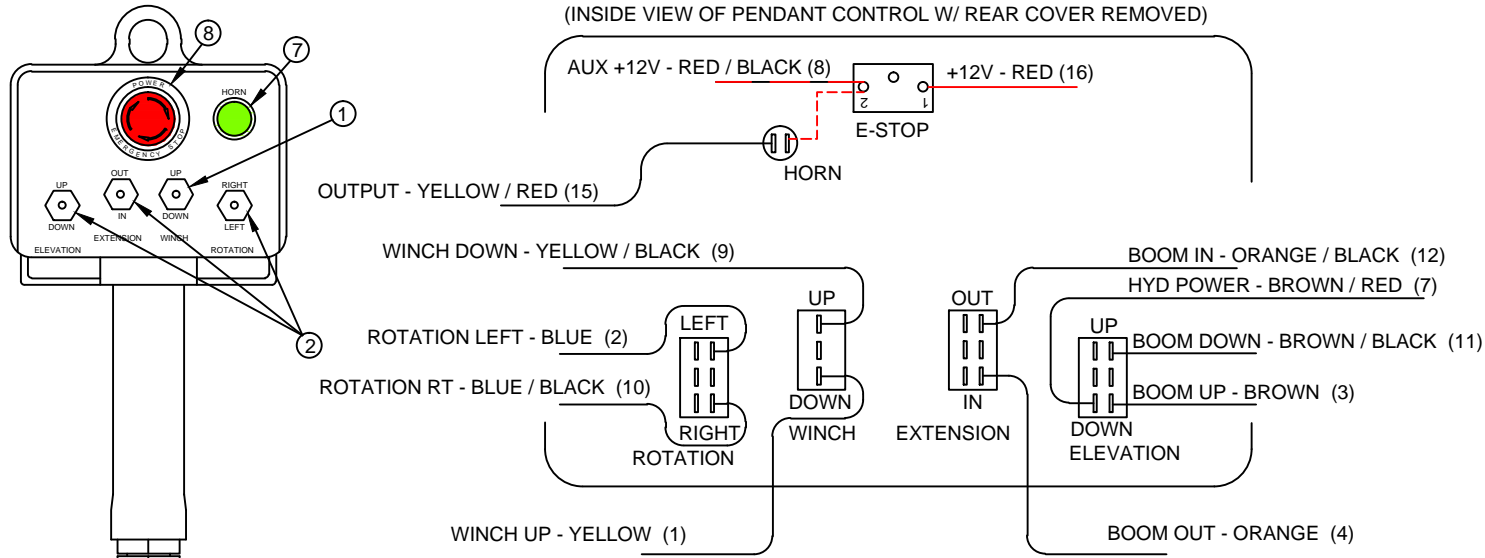
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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

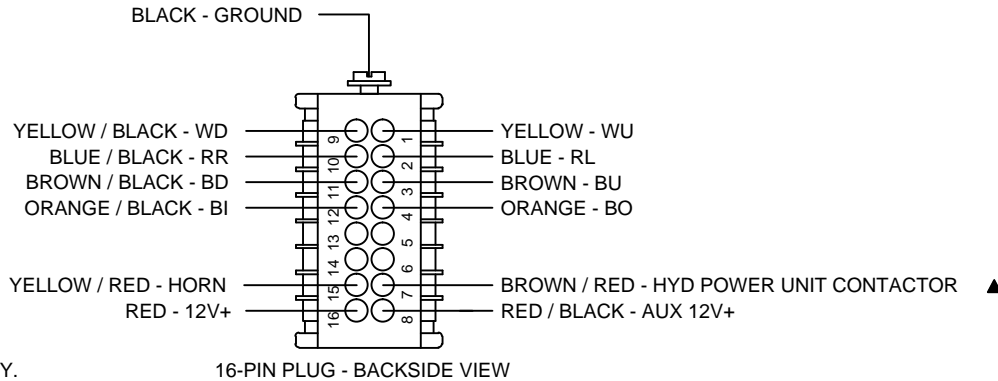
DATE
04-27-18
SUPERSEDES
-

SECTION
C400
21293

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



16-PIN PLUG ASSY.



16-PIN PLUG - BACKSIDE VIEW

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

REPLACEMENT PARTS DWG & LIST

21990 PNDNT; 4 FNCTN ET CRNS, ESTP/HRN

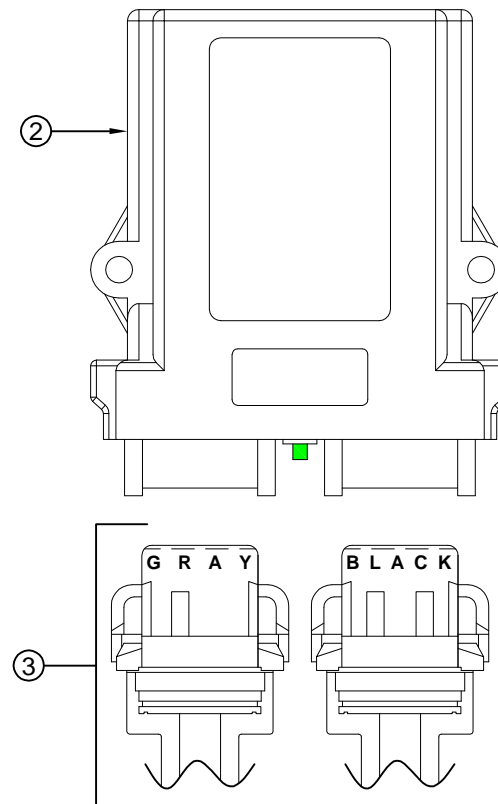
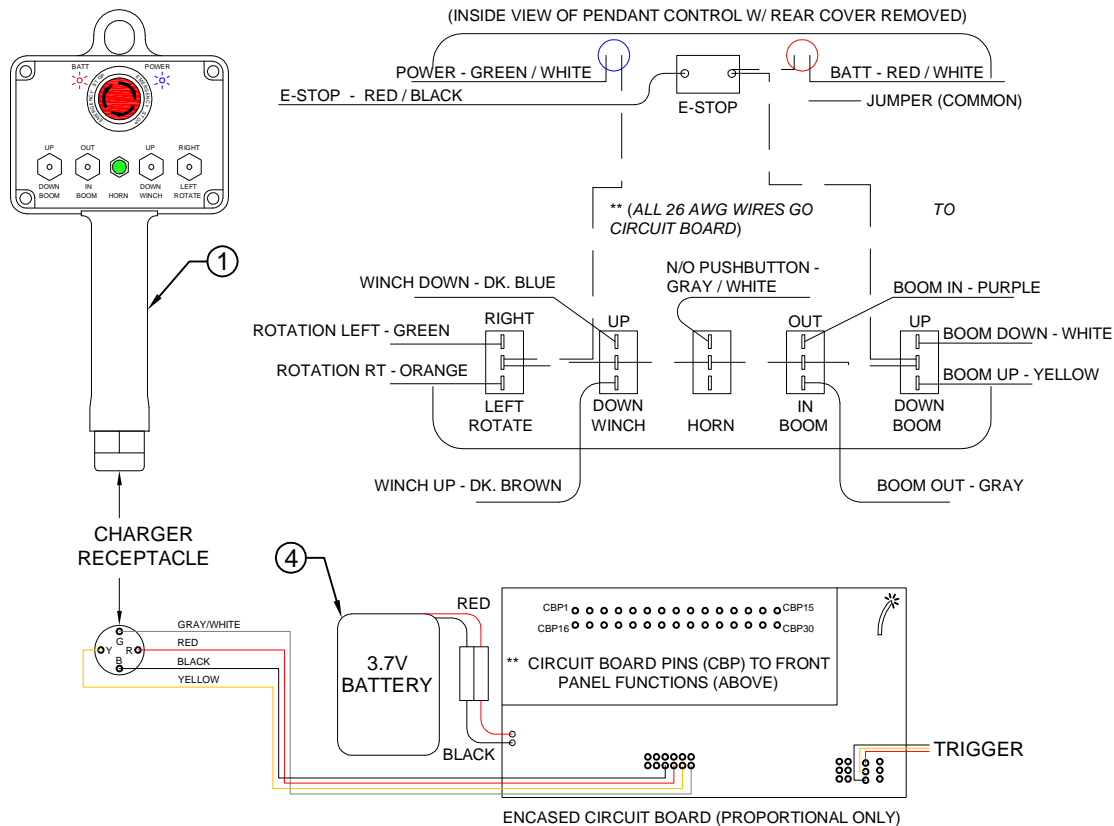
DATE
01-12-17B

SUPERSEDES
10-20-14A

SECTION
C400

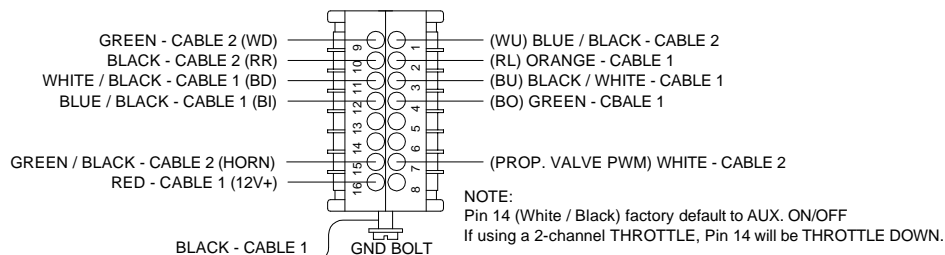
23075

22158 RADIO; PROP, NON-CAN, NO ENG CNTRLS, E-STOP/HORN



CABLE 1 = GRAY CONNECTOR
CABLE 2 = BLACK CONNECTOR

16-PIN PLUG - BACKSIDE VIEW



COMPONENTS

| ITEM NO. | PART NO. | DESCRIPTION |
|----------|------------|---------------------|
| 1 | 22158-TX | TRANSMITTER |
| 2 | 22158-RX | RECEIVER |
| 3 | 21983-HN | HARNESS |
| 4 | 22965-BATT | BATTERY |
| 5 | 22965-CHGR | CHARGER (NOT SHOWN) |



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DWG & LIST

ET PROPORTIONAL SERIES CRANES ▲

DATE

03-11-19A

SUPERSEDES

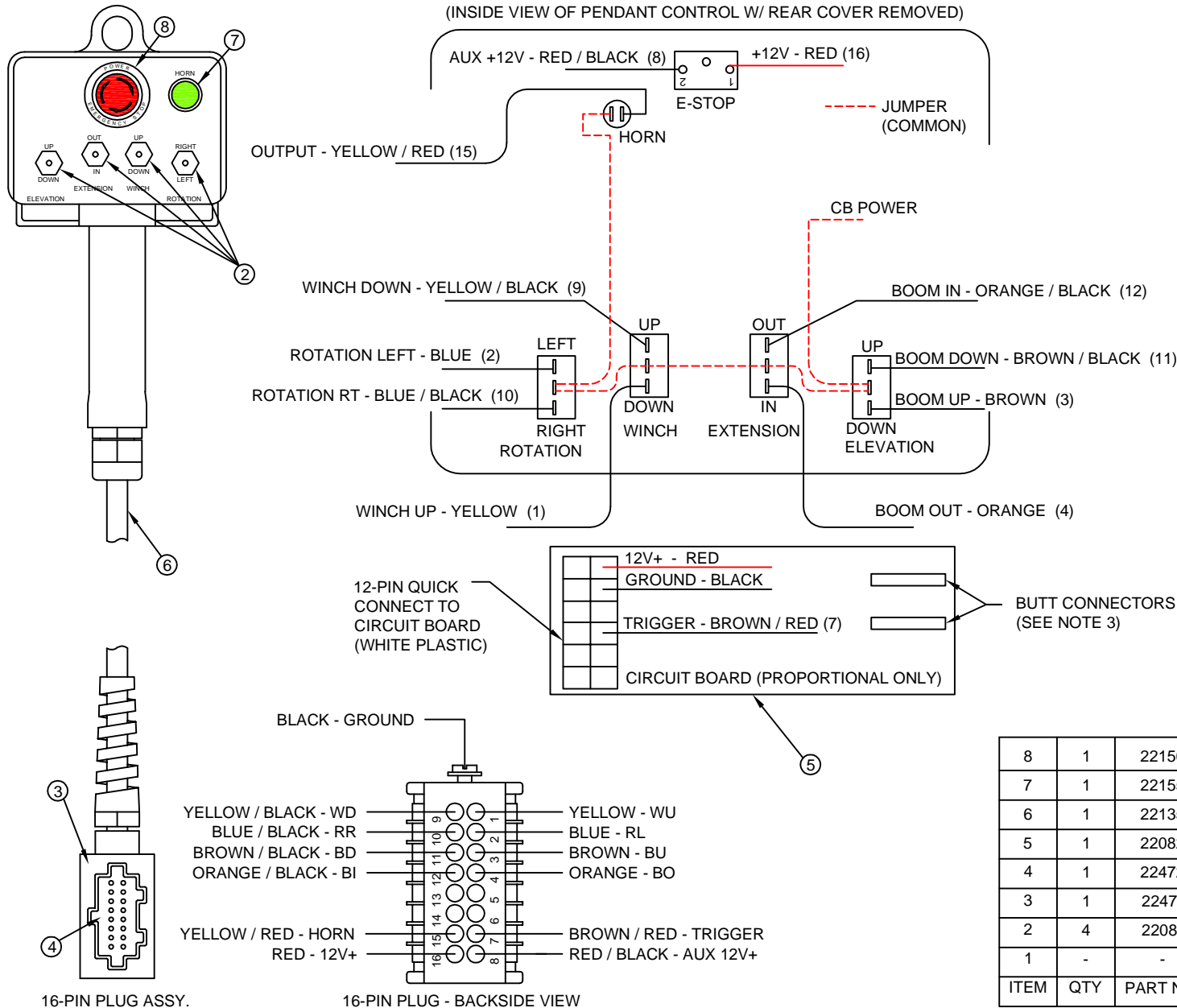
07-31-18

SECTION

C400

23786

21988 PENDANT; PROP, NO ENG CNTRL, E-STOP / HORN



NOTE 1:

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

NOTE 2:

STOW OR CUT BACK UNUSED WIRES.

NOTE 3:

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

MODEL

STARTING S/N

| | |
|-----------|--------|
| HT25K(X) | 120300 |
| HT30K(X) | 115300 |
| HT40KX(X) | 100900 |
| HT50KX(X) | 110600 |
| HT66KXX | 150300 |

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DWG & LIST

DATE

10-03-14

SECTION

C400

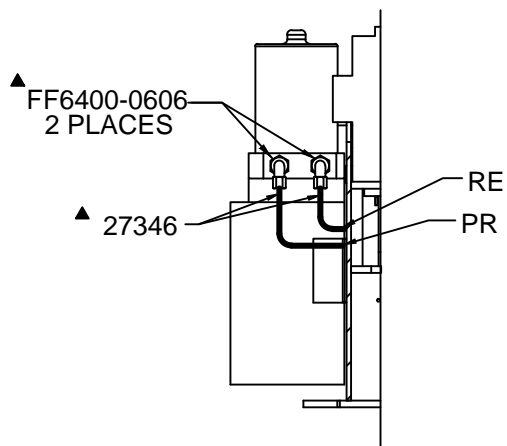
21988 PNDNT; PROP, NO ENG CNT, ESTP/HRN

SUPERSEDES

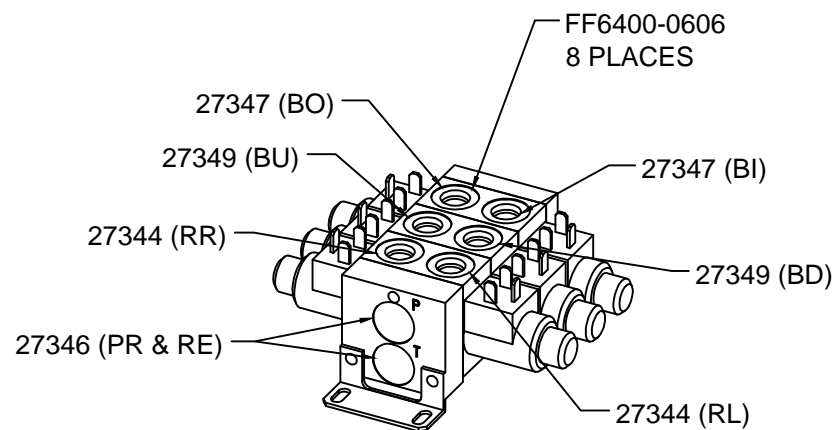
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23073

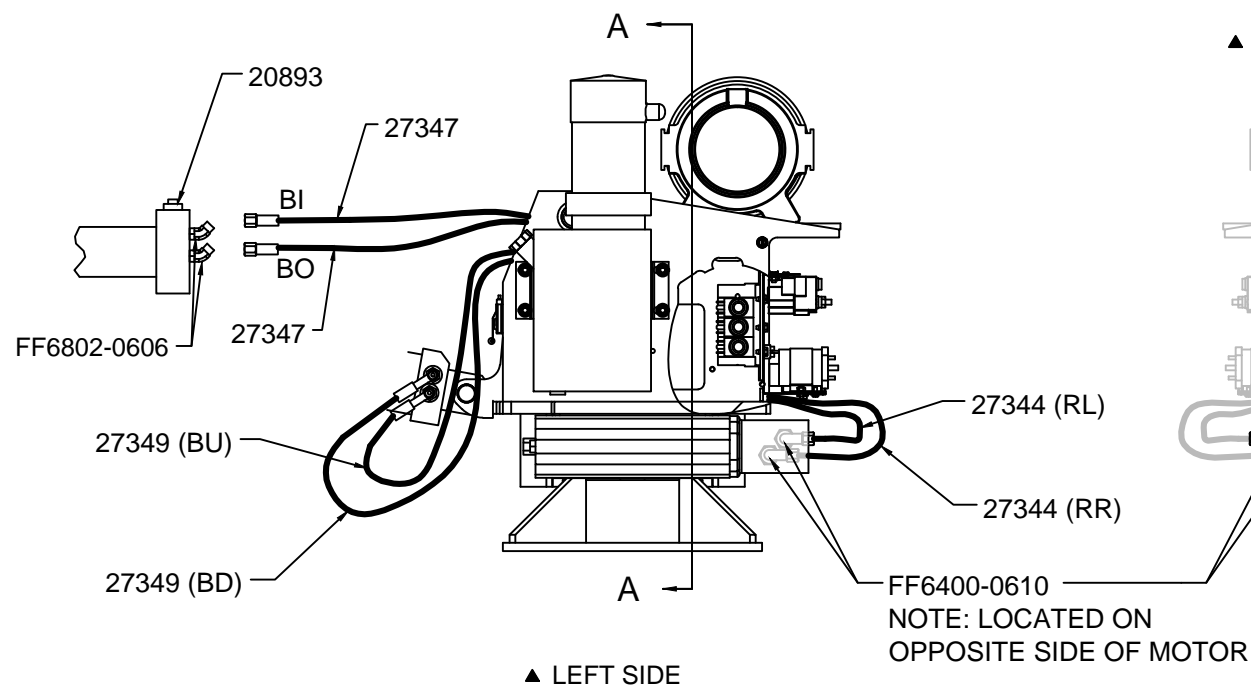
| | |
|----|----------------|
| RR | ROTATION RIGHT |
| RL | ROTATION LEFT |
| BO | BOOM OUT |
| BI | BOOM IN |
| BU | BOOM UP |
| BD | BOOM DOWN |
| PR | PRESSURE |
| RE | RETURN |



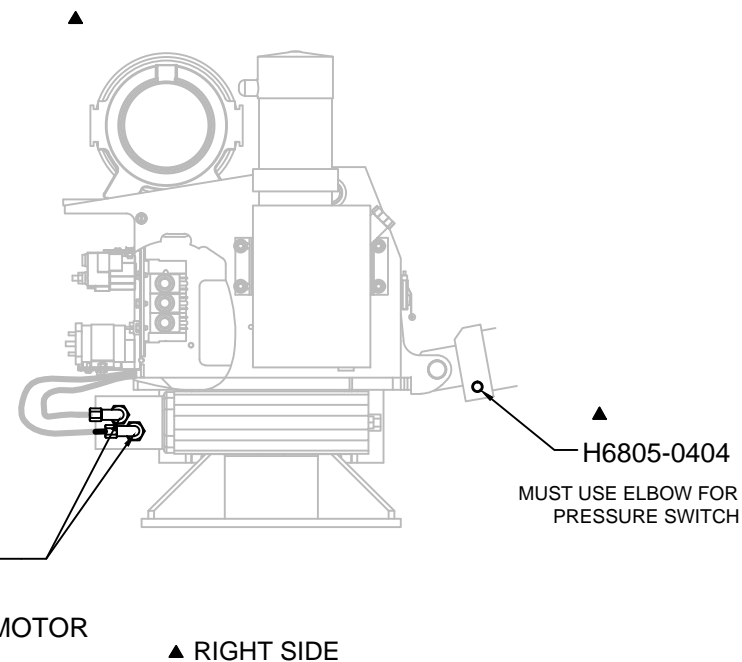
SECTION VIEW A-A



NOTE:
FOR REPLACEMENT
COILS SEE P/N 23134



▲ LEFT SIDE



▲ RIGHT SIDE



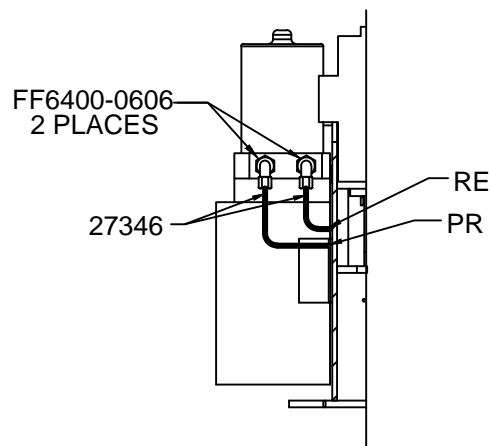
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS; HYD. COMPONENTS
ET25/30/36KX

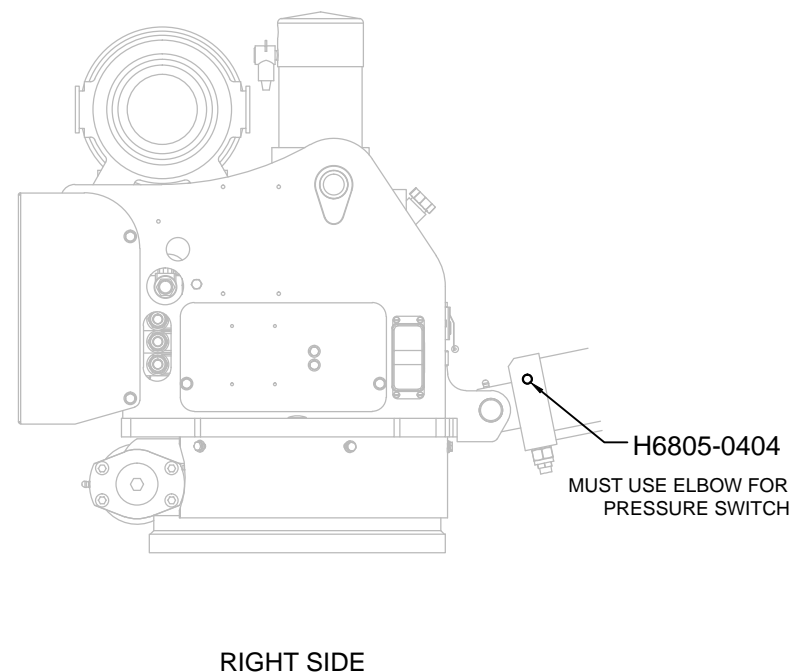
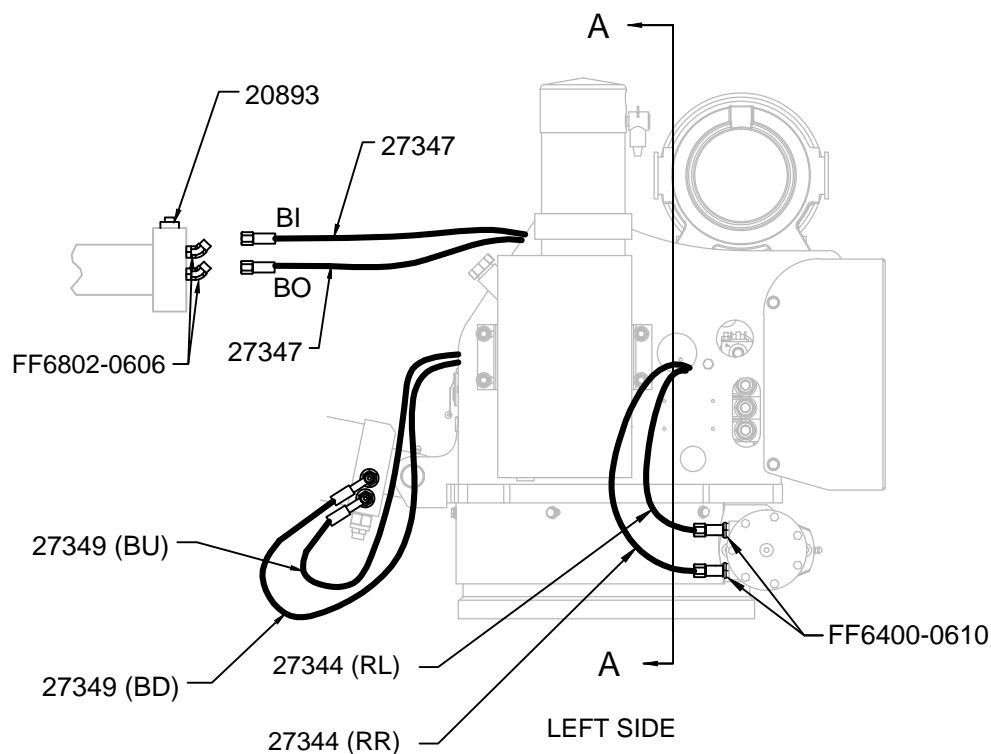
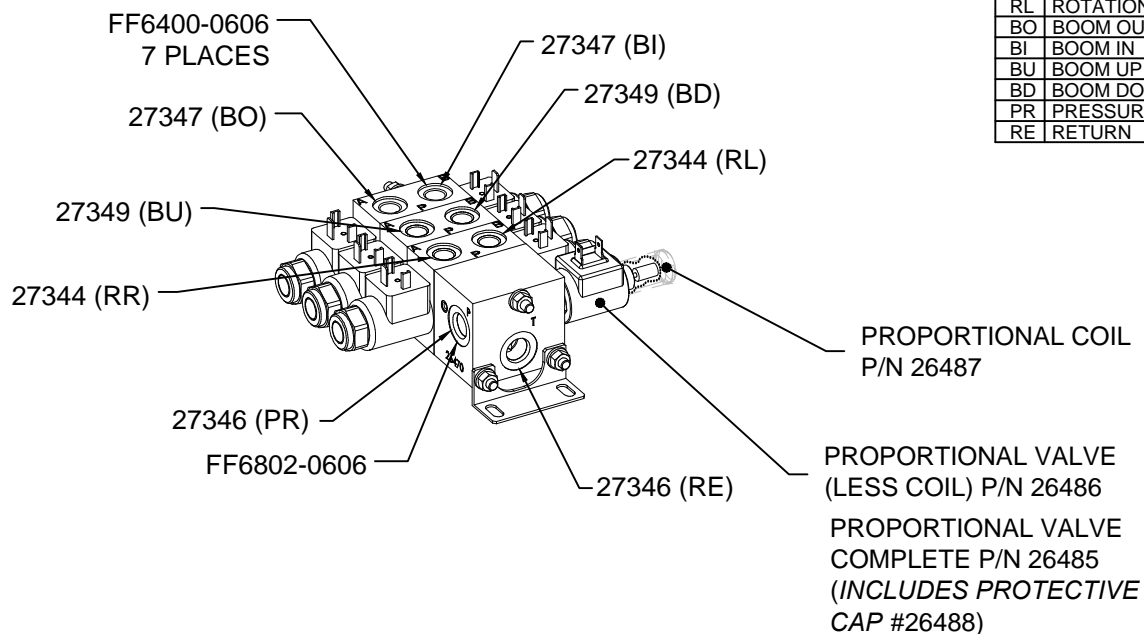
DATE
02-10-20E
SUPERSEDES
10-07-19D

SECTION
C400
21758

| | |
|----|----------------|
| 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



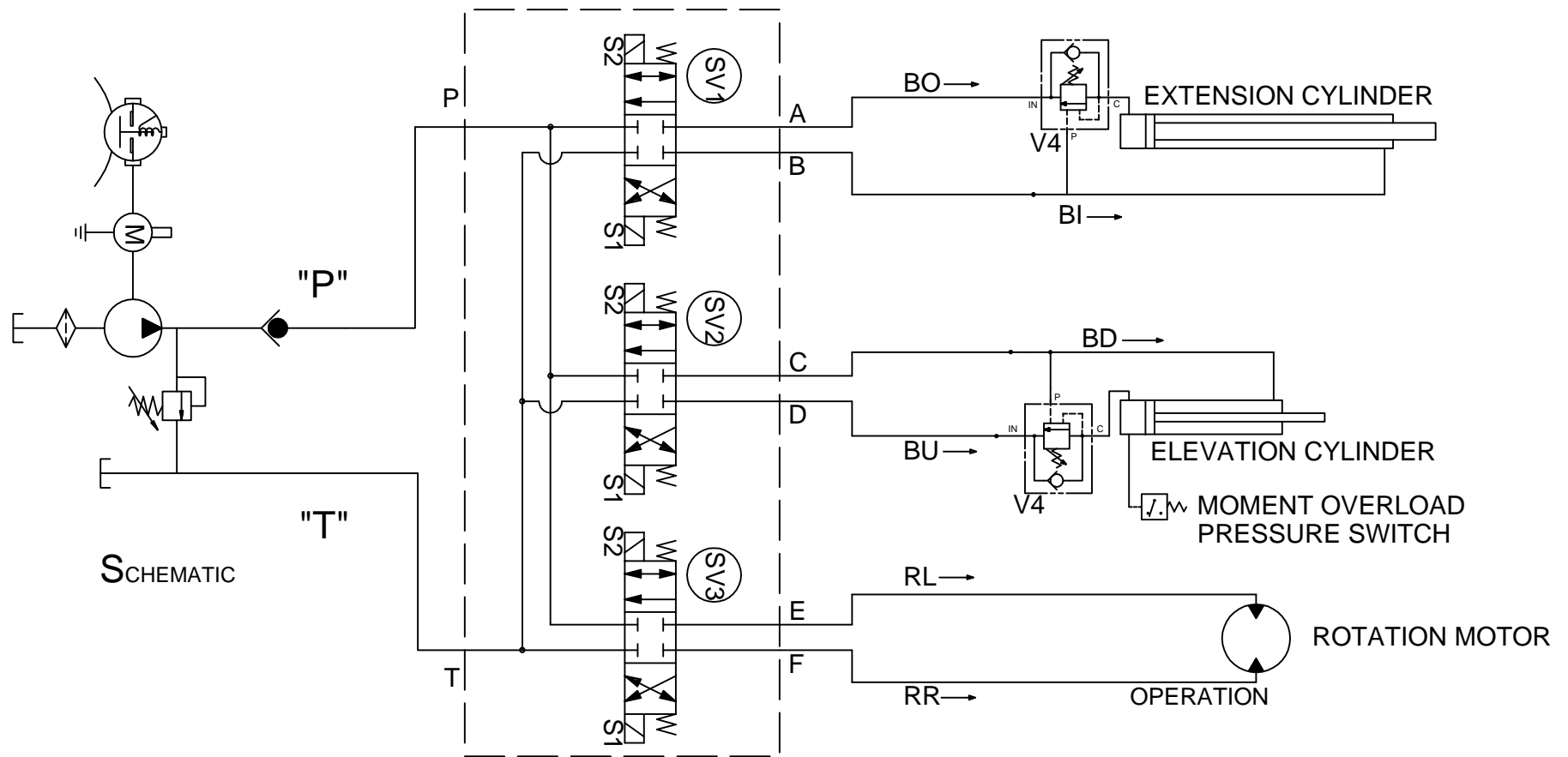
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS; HYD. COMPONENTS
ET25/30/36KXP

DATE
10-07-19
SUPERSEDES
-

SECTION
C400
24418

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

SUPSEDES

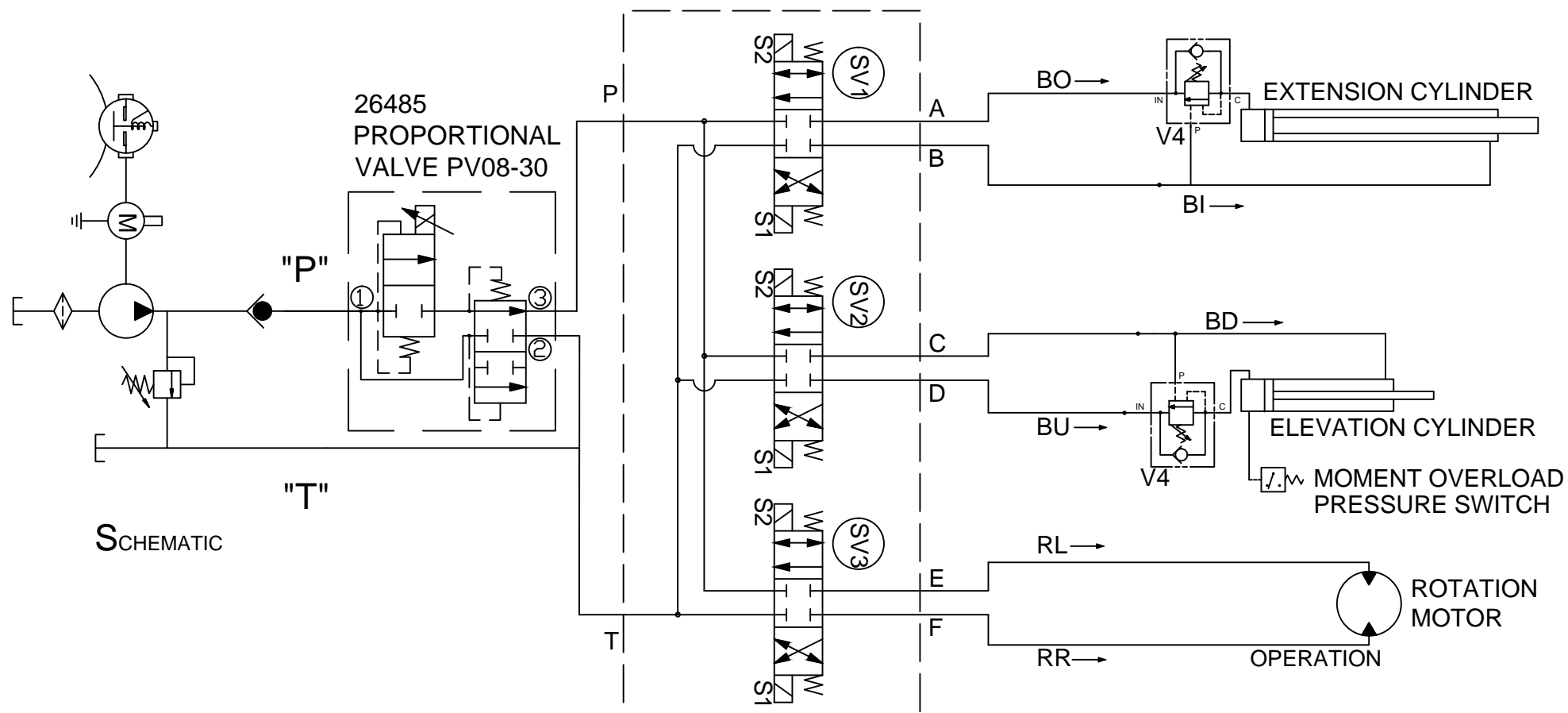
01-31-05C

SECTION

C400

20156

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



SCHEMATIC

| 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

ET16/18/25/30/36KXP

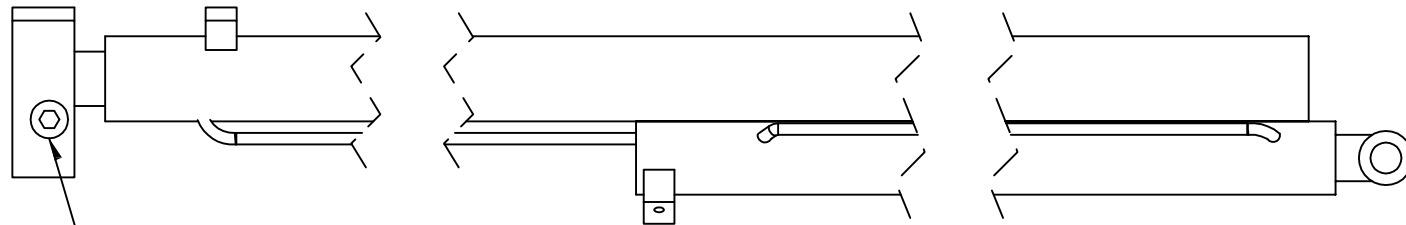
DATE
10-14-19

SUPERSEDES
-

SECTION
C400

24434

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

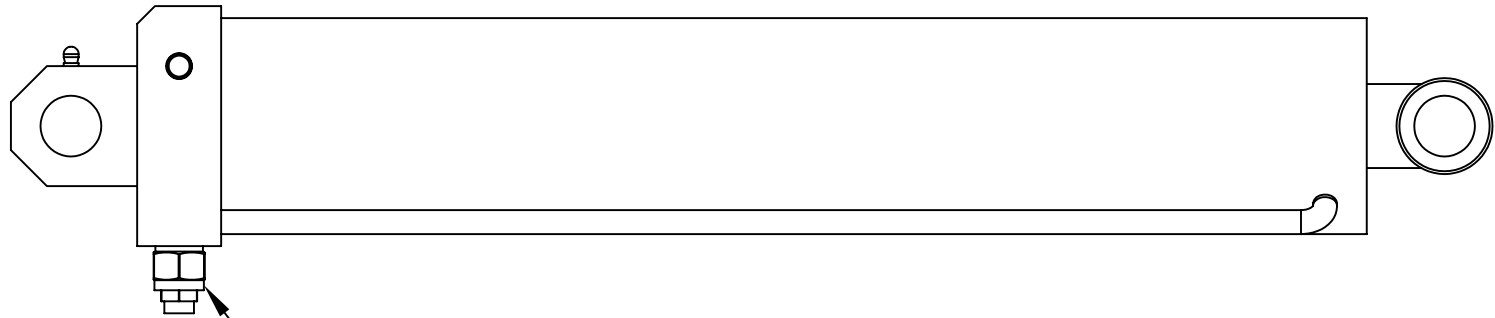
04-30-09A

SECTION

C400

21860

21752 ELEVATION CYLINDER



**20893 COUNTERBALANCE
VALVE**

SEAL KIT P/N: 21774



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
ELEVATION CYLINDER

ET/HT25/30/36KX(X)

DATE
8-12-09

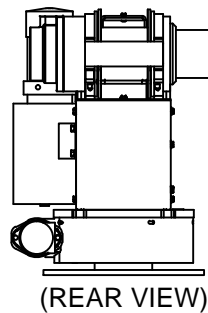
SUPERSEDES
-

SECTION
C400

21773

19813 WINCH REPLACEMENT PARTS

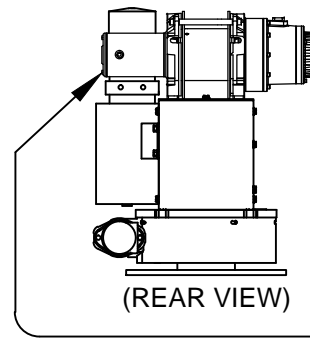
WARN DC3000 SERIES-WOUND MOTOR



MOTOR ON RIGHT
WHEN VIEWED FROM REAR

(REAR VIEW)

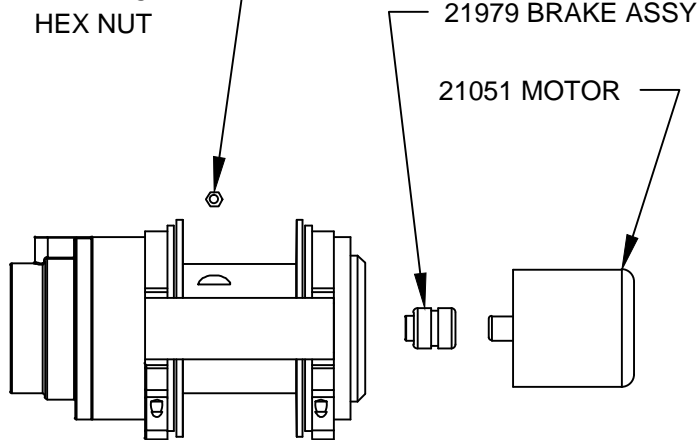
COMEUP GTD-3300 PERMANENT MAGNET MOTOR



MOTOR ON LEFT
WHEN VIEWED FROM REAR

(REAR VIEW)

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



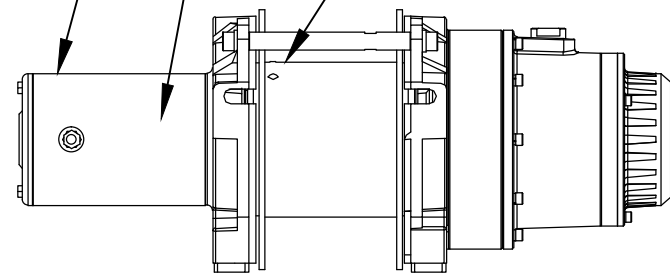
21979 BRAKE ASSY

21051 MOTOR

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

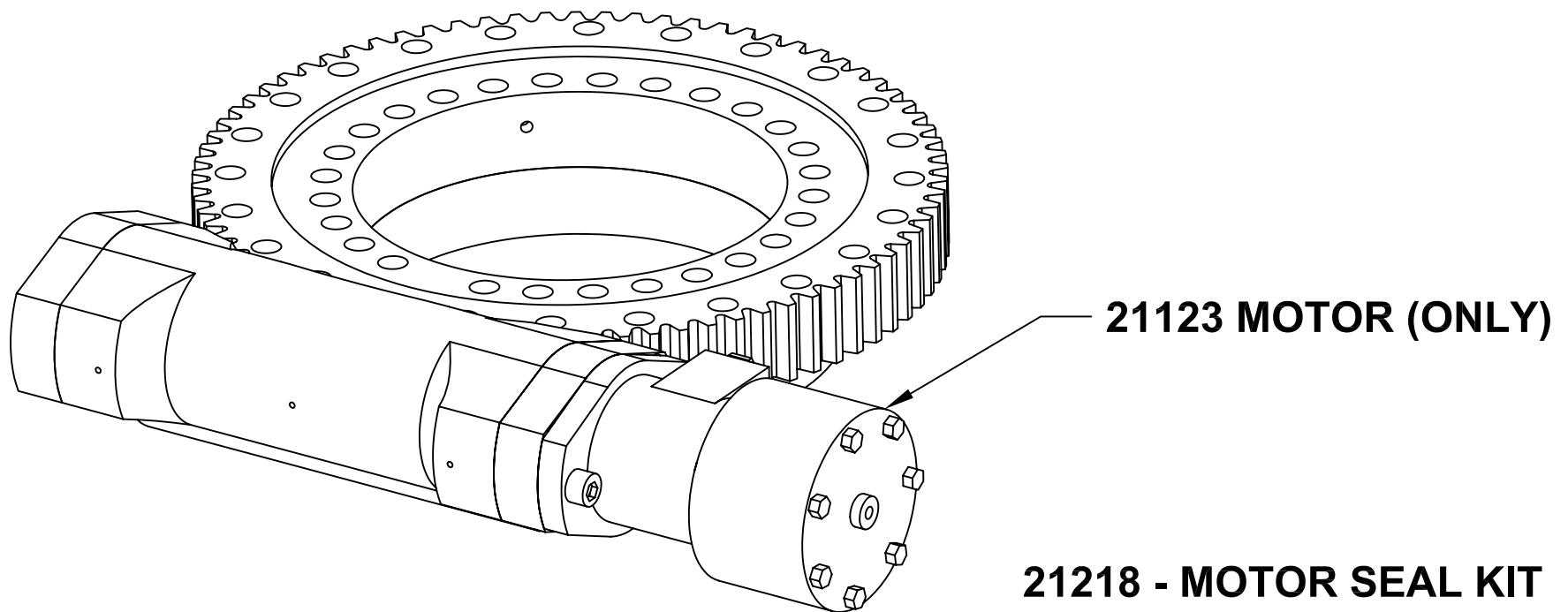
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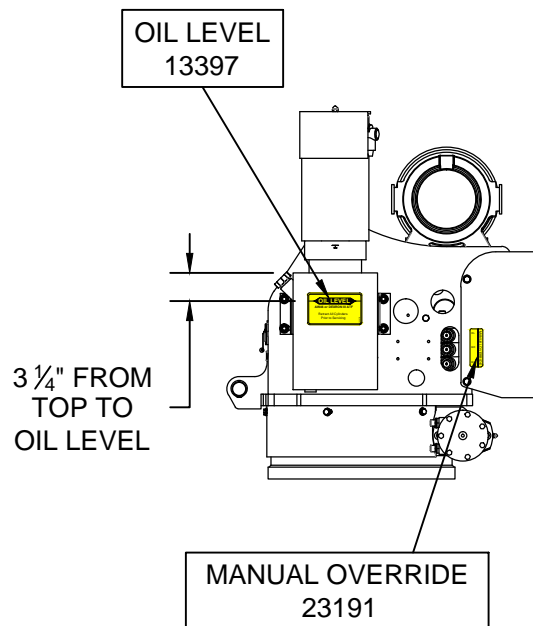
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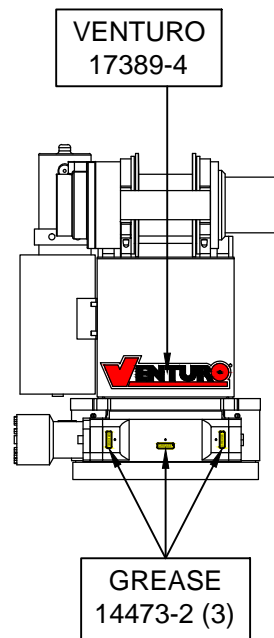
21053

21418 SLEWING SYSTEM REPLACEMENT PARTS

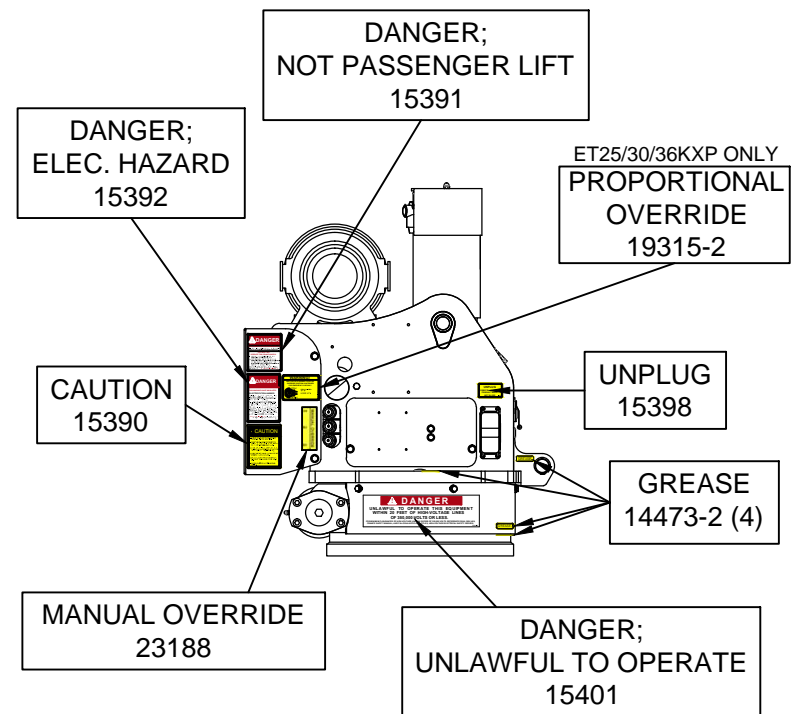




LEFT



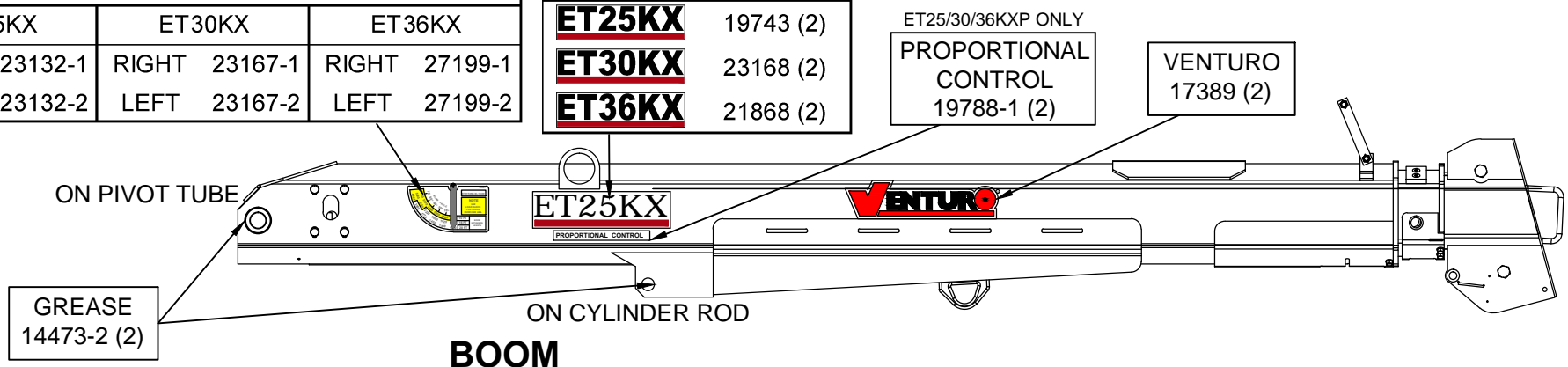
BACK



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(P)

DATE
09-16-19

SUPERSEDES
-

SECTION
C400

24410

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

ET25/30/36KXP FIELD SERVICE LABEL KITS

24440; FIELD SERVICE LABEL KIT, ET25KXP

| 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 |
| 19788 | 2 | DECAL; 'PROPORTIONAL CONTROL' |
| 13397 | 1 | DECAL; OIL LEVEL |
| 23188 | 1 | DECAL; MANUAL OVERRIDE, RIGHT |
| 23191 | 1 | DECAL; MANUAL OVERRIDE, LEFT |
| 19315-2 | 1 | DECAL; PROP. VALVE MANUAL OVERRIDE |
| 17813 | 1 | DECAL; OVERLOAD SENSING SYSTEM |
| 16184-1 | 1 | DECAL; HORN RELAY |
| 24417 | 1 | IDWG; FIELD SERVICE LABEL KIT |
| 24410 | 1 | IDWG; DECAL PLACEMENT |
| INST-23233 | 1 | SAFETY MANUAL, VENTURO CRANES |
| 15397 | 1 | KIT; ACCIDENT PREVENTION SIGNS |

24442; FIELD SERVICE LABEL KIT, ET30KXP

| 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 |
| 19788 | 2 | DECAL; 'PROPORTIONAL CONTROL' |
| 13397 | 1 | DECAL; OIL LEVEL |
| 23188 | 1 | DECAL; MANUAL OVERRIDE, RIGHT |
| 23191 | 1 | DECAL; MANUAL OVERRIDE, LEFT |
| 19315-2 | 1 | DECAL; PROP. VALVE MANUAL OVERRIDE |
| 17813 | 1 | DECAL; OVERLOAD SENSING SYSTEM |
| 16184-1 | 1 | DECAL; HORN RELAY |
| 24417 | 1 | IDWG; FIELD SERVICE LABEL KIT LIST |
| 24410 | 1 | IDWG; DECAL PLACEMENT |
| INST-23233 | 1 | SAFETY MANUAL, VENTURO CRANES |
| 15397 | 1 | KIT; ACCIDENT PREVENTION SIGNS |

24442; FIELD SERVICE LABEL KIT, ET36KXP

| 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 |
| 19788 | 2 | DECAL; 'PROPORTIONAL CONTROL' |
| 13397 | 1 | DECAL; OIL LEVEL |
| 23188 | 1 | DECAL; MANUAL OVERRIDE, RIGHT |
| 23191 | 1 | DECAL; MANUAL OVERRIDE, LEFT |
| 19315-2 | 1 | DECAL; PROP. VALVE MANUAL OVERRIDE |
| 17813 | 1 | DECAL; OVERLOAD SENSING SYSTEM |
| 16184-1 | 1 | DECAL; HORN RELAY |
| 24417 | 1 | IDWG; FIELD SERVICE LABEL KIT LIST |
| 24410 | 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

ET25/30/36KXP

DATE

03-13-23B

SUPERSEDES

08-04-20A

SECTION

C400

24417



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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