VENTURO OWNER'S MANUAL **INST-23028**

EQBAAA-*0

PARTS & INSTALLATION MANUAL ET36KX

Included in this manual:

ET36KX

- 6,000 lbs Electric Telescopic Service Crane
- 10-20 ft Powered, Dual-Stage Boom Extension





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

ET36KX INST-23028 - 7/1/2025 (Rev: NEW0)

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40 00070 V/NT4	

12-00073_VNT1 WARRANTY PAGE

DESCRIPTION & SPECIFICATIONS



SPECIFICATIONS

12-volt battery operated

36,000 ft-lb overturning moment (or as limited by truck stability)

Moment overload shut-off system

Electric winch - 3,000 lb single-line capacity with automatic load brake

Electric-hydraulic boom elevation

Electric-hydraulic boom extension

Electric-hydraulic continuous power rotation

Corded remote control pendant

Radio remote control pendant (optional)

Master disconnect switch

Accessories (optional):

Stabilizers: 25100, 13500, 11822-2

Pedestal: 17576

Boom Rest: 20381-2

TELESCOPIC BOOM	10.7 - 20.7 ft
BOOM ELEVATION	-5° TO 75°
BOOM HYD EXTENSION	10 ft
BOOM MANUAL EXT	-
CADACITY	1800 lb @ 20.5 ft
CAPACITY	6000 lb @ 5.5 ft
WIRE ROPE	5/16" x 80 ft
PENDANT CORD LENGTH	25 ft



SPECS & OP. FEATURES	^{дате} 03-19-25В	C100
ET36KX-10/20	supersedes 09-30-09A	21077

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 ET36KX 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 Hydraulic Crane Standards. The cable sheaves are either 16 (snatch block) or 18 (boom) times the cable diameter which likewise conforms.

MISCELLANEOUS

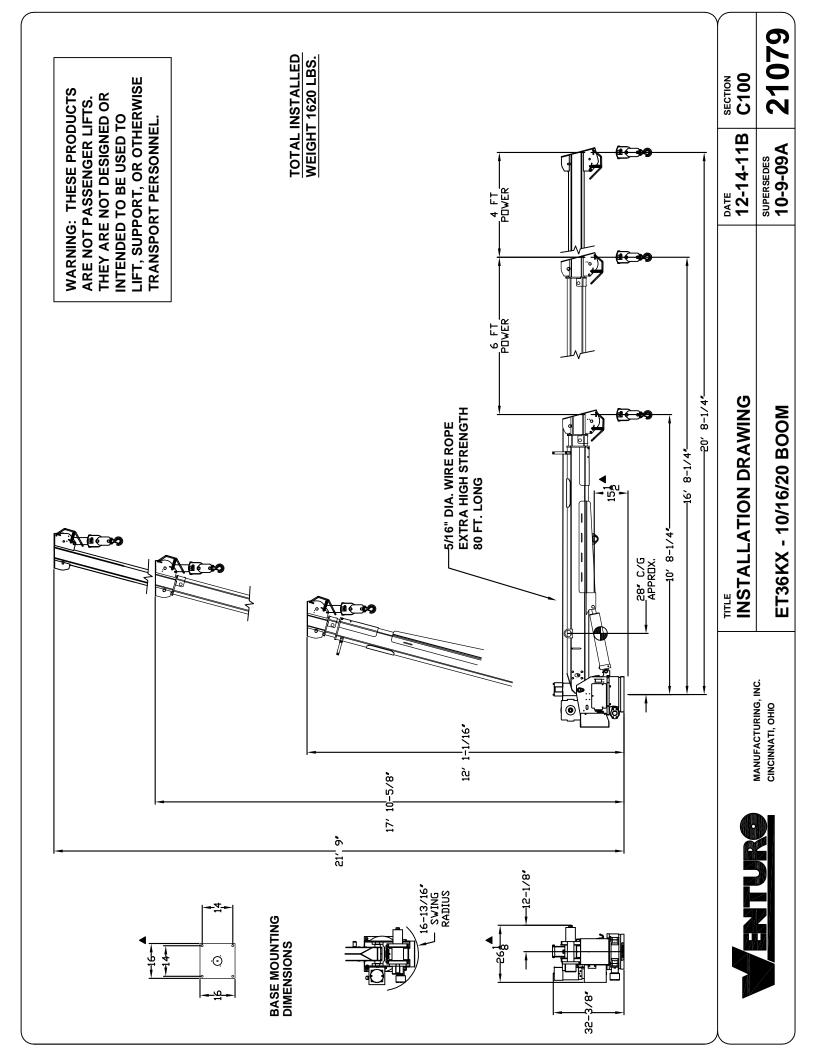
A. CAPACITY INDICATOR

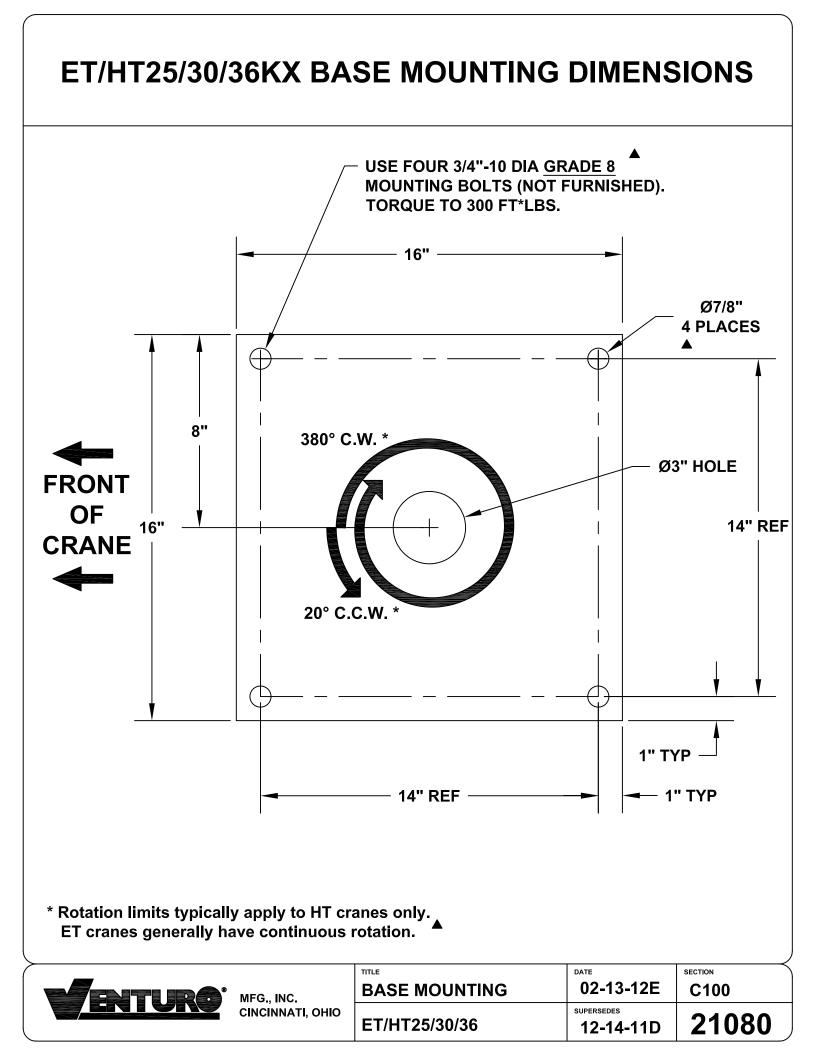
Select boom reach and angle allowable for load by using capacity indicator arrow and chart on either side of boom.

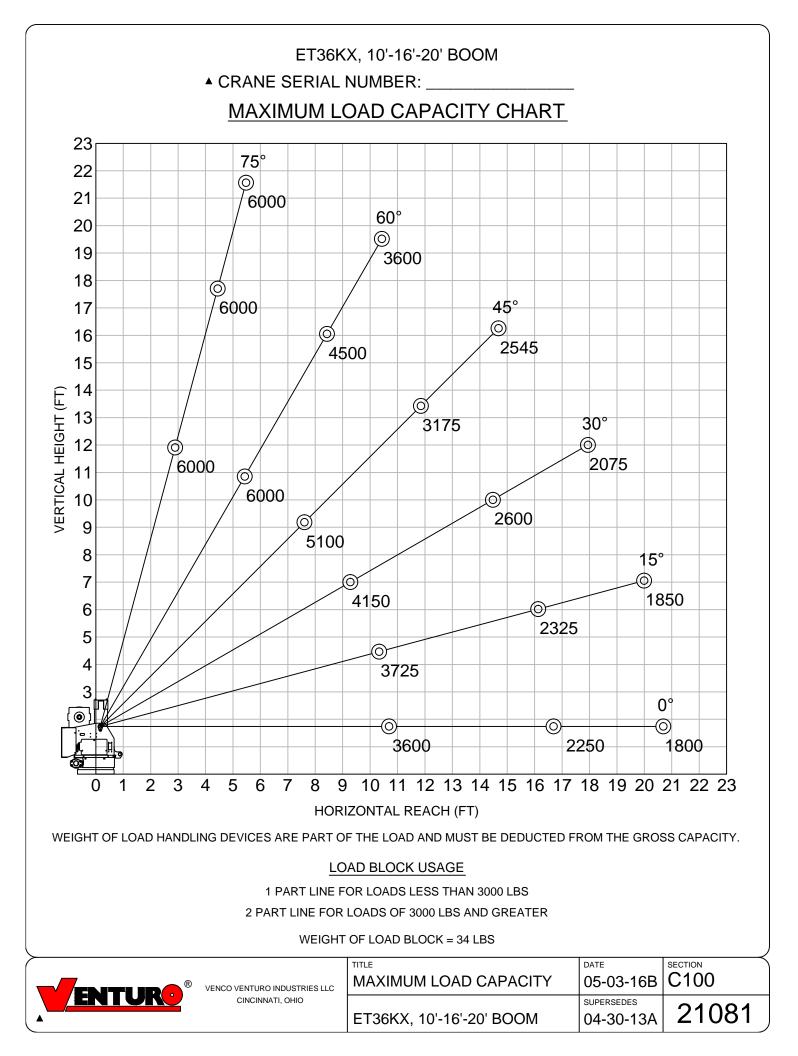
B. BATTERY HOOKUP

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.

VENTURO MFG., INC. CINCINNATI, OHIO		DATE 3-18-08	SECTION C120
	^{IO} ET36KX-10/20	SUPERCEDES	21078







SAFETY



CRANE SAFETY AND HAZARDS

CAUTIONS

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

DANGER

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

YOU MUST NOT OPERATE THIS CRANE, UNLESS:

- 1. YOU HAVE BEEN TRAINED IN THE SAFE OPERATION OF THIS CRANE, AND
- 2. YOU KNOW AND FOLLOW THE SAFETY AND OPERATING RECOMMENDATIONSCONTAINED 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

CINCINNATI, OHIO	™ 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

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TITLE	
SAFETY & HZRDS, CONT.	
ELECTRIC CRANES	

DATE	SECTION
01-29-15	C15
SUPERSEDES	_

-

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.

A DANGER UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN 20 FEET OF HIGH-VOLTAGE LINES OF 350,000 VOLTS OR LESS. 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 - Minimun	n Clearance Distances

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

Voltage	While traveling - minimum clearance distance
(nominal, kV, alternating current)	(feet) *
0 - 0.75 over 0.75 - 50 over 50 - 345 over 345 - 750 over 750 - 1000 Over 1000	4 6 10 16 20 (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

O VENTURO INDUSTRIES LLC	HAZARD APPS & INFO	^{DATE} 02-21-14M	section C150
CINCINNATI, OHIO	ET/HT CRANES	SUPERSEDES	15394

DECAL #: DESCRIPTION: PURPOSE: QUANTITY: PLACEMENT:	15390 CAUTION, INSPECT VEHICLE & CRANE TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS. 1 REAR COVER OR SIDE OF CRANE	CAUTION ADD CRAME INCLUDING OPERATION, PRIOR TO USE DAILY. ADD CRAME INCLUDING OPERATION, PRIOR TO USE DAILY. ADD COMPLEX TRANSPORT SOLD, LEVEL SURFACE WITH CRAME MOUTED ON FACTOR/MECOMMENCED TRUCK. ADD CRAME CRAME REFER TO MAXIMUM LOAD (CAPACITY) CHART ON CRAME PORTONIC DAIL (CAPACITY) CHART ON CRAME DO NOT OPERATING LOAD. LIMITATIONS. DO NOT OPERATE, WALK, OR STAND BENEATH BOOM OR A SUSFENDED LOAD. UNSUE OPENATION CLANS DHUT OFF MASTER DISCOMECT SWITCH WHEN CRAME NOT IN USE. FOR TRAVEL, BOOM MUST BE IN STOWED POSITION.
DECAL #:	15391	
DESCRIPTION:	DANGER, NOT A PASSENGER LIFT	A DANGER
PURPOSE:	TO INFORM OPERATOR NOT TO LIFT, SUPPORT, OR TRANSPORT	THIS CRANE IS NOT A PASSENGER LIFT IT IS NOT DESIGNED OR INTENDED TO BE USED TO LIFT, SUPPORT OR OTHERWISE TRANSPORT PERSONNEL.
	PERSONNEL, AND TO ENSURE OPERATOR IS ADEQUATELY TRAINED	D. YOU MUST NOT OPERATE THIS CRANE UNLESS: 1. YOU HAVE BEEN TRAINED IN THE SAFE
QUANTITY:	1	OPERATION OF THIS CRANE; AND 2. YOU KNOW AND FOLLOW THE SAFETY AND OPERATING RECOMMENDATIONS CONTAINED IN THE MANUFACTURER'S MANUALS, YOUR
PLACEMENT:	REAR COVER OR SIDE OF CRANE	EMPLOYER'S WORK RULES, AND APPLCABLE GOVERNMENT REGULATIONS. AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO DEATH OR SERIOUS INJURY. 1591.0
DECAL #:	15392	
DESCRIPTION:	DANGER, ELECTROCUTION HAZARD, MACHINE (CRANE)	
PURPOSE:	TO INFORM OPERATOR THAT MACHINE (CRANE) REPRESENTS AN	THIS MACHINE IS NOT INSULATED ELECTROCUTION HAZARD
	ELECTROCUTION HAZARD SHOULD IT COME CLOSE TO OR IN CONT	ACT MAINTAIN SAFE CLEARANCES FROM ELECTRICAL LINES AND APPARTUS. YOU MUST ALLOW FOR BOOM SWAY, ROCK OR SAG, AND ELECTRICAL LINE AND LOAD LINE SWAYING.
	WITH AN ELECTRICAL VOLTAGE SOURCE.	THIS LIFTING DEVICE DOES NOT PROVIDE PRO- TECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTICALLY CHARGED CONDUCTOR.
QUANTITY:		YOU MUST MAINTAIN A CLEARANCE OR 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 YOLTS, ONE
PLACEMENT:	REAR COVER OR SIDE OF CRANE	FOOT ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 3000 VOLTS OR LESS. DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE. 1980 E
DECAL #:	15401	
DESCRIPTION:	DANGER, UNLAWFUL TO OPERATE	ADANGER
PURPOSE:	WITHIN	IL TO OPERATE THIS EQUIPMENT 20 FEET OF HIGH-VOLTAGE LINES
	FOR MINIMUM CLEARANCE CRANES SAFETY MANUA	OF 350,000 VOLTS OR LESS. ES OF HIGH-VOLTAGE LINES IN EXCESS OF 350,000 VOLTS, REFERENCE OSHA 1926.1408, AL, AND CAL-OSHA ARTICLE 37, TITLE 8, HIGH-VOLTAGE ELECTRICAL SAFETY ORDERS
QUANTITY: PLACEMENT:	1 RING COVER OR SIDE OF CRANE	
DECAL #:	15393	
DESCRIPTION:	DANGER, ELECTROCUTION HAZARD, VEHICLE (TRUCK)	DANGER
PURPOSE:	WARNS OF DANGER FROM ELECTRICALLY CHARGED	
	VEHICLE, CRANE, OR LOAD.	P CLEAR OF TRUCK AND LOAD 4 OR SERIOUS INJURY CAN RESULT FROM TACT WITH THE LOAD, THE CRUNE, OR THE
	VEHICLE	
QUANTITY:	4 EACH SIDE & EACH END OF VEHICLE	E IF BOOM OR LOAD LINE SHOULD BECOME ELECTRICALLY CHARGED.

	ENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO
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VENTURO CRANES

SAFETY DECALS

04-29-16E	C150
SUPERSEDES 10-24-13D	21353

PART NO.:	15513		DISCONNECT
DECAL:	MASTER DISCONNECT SWITCH		NUST OF FUE
FUNCTION:	To inform the operator of location and operation of master disconnect switch.	(
QUANTITY:	1		CHAN OLE WHELE
PLACEMEN	: On master disconnect switch bracket.		MANE NOT IN US
PART NO.:	20927		IS T A B I L I T Y C H A R T
DECAL:	CRANE STABILITY		A D A N G E R
FUNCTION:	To inform the operator of the crane's lifti capacity throughout the entire rotation.	ng	NOLITING ART TRAITING IN BE ART 200 11 200 11 200 12 200 12 20000000 200 12 200 10 10 200 10 200 1000 10
QUANTITY:	1		
	: In prominent location, so it is easily see readily identifiable.	en and	

D VEN CIN
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O VENTURO INDUSTRIES LLC		DATE 06-06-14C	C150	
CINCINNATI, OHIO	CRANES	supersedes 04-02-13B	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.



CONDUCTIVE GREASE

Retract All Cylinders Prior to Servicing





MANUFACTURING, INC. CINCINNATI, OHIO

	TITLE	DATE	SECTION
).	DECALS	11-12-19E	C150
		SUPERSEDES	
	ET CRANES	12-23-13D	21354

PART NO.: 27199-1 & 27199-2

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.: 21868

- DECAL: MODEL NUMBER (ET30KX)
- FUNCTION: To show the model of the crane.
- QUANTITY: 2

PLACEMENT: One on each side of boom.

PART NO.: 19788-1

DECAL: **PROPORTIONAL DECAL**

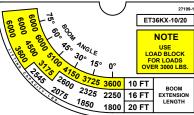
FUNCTION: To show the crane has proportional feature.

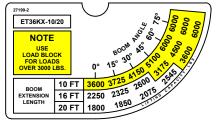
PROPORTIONAL CONTROL

QUANTITY: 2

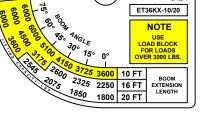
PLACEMENT: One on each side of boom.

	MODEL/CAPACITY DECALS	^{date} 09-16-19A	SECTION C150
ENTURO VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	ET36KX(P)	supersedes 02-11-09	21083











INSTALLATION



!! IMPORTANT !!

ADEQUATE WIRING IMPERATIVE FOR PROPER OPERATION

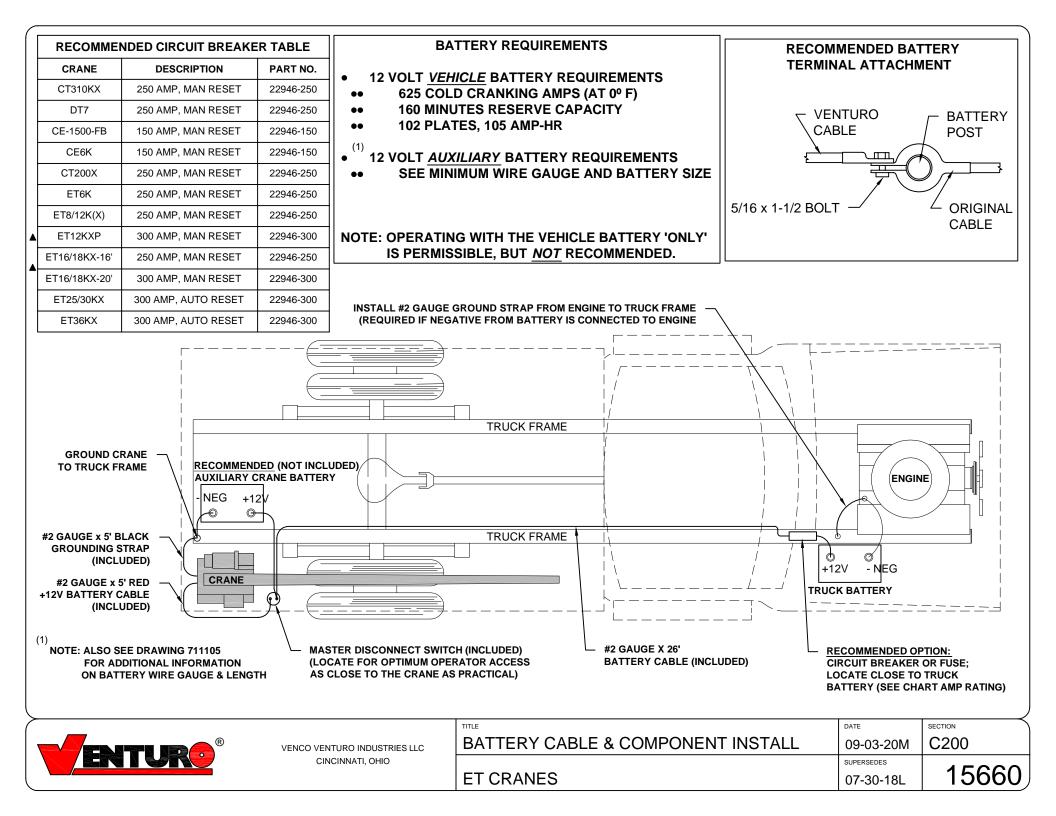
- 1. PROPER GROUND PATH SEE DWG 15660
- 2. CURRENT DRAW IS SEVERAL HUNDRED AMPERES -ADEQUATE WIRE SIZE AND BATTERY CAPACITY IS ABSOLUTELY ESSENTIAL (SEE CHART BELOW).

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE

MODEL		TOTAL LENGTH OF CABLE (FT) *								
	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 R	ECOMN	IENDED	450	100
ET8KX ET10KX ET12KX ▲ ET12KXP	#2	#2	#1	#0	#00	NOT R	ECOMN	IENDED	550	150
ET18K(X) ET25K(X) ET30KX ET36KX		SEE DRAWING 15660 FOR CABLE AND BATTERY REQUIREMENTS								

- ** 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.

	CABLE & BATTERY	^{DATE} 07-30-18X	section C200	
	CINCINNATI, OHIO	ELECTRIC CRANES	supersedes 09-27-17W	711105



STABILITY TEST - ET36-20' 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. <u>Note: The black & white wires MUST be</u> reconnected to the Overload Pressure Switch after the stability test has be completed.
- 6. Use a **Test Weight** weighing a **minimum** of <u>2118 lbs</u>, (includes load block weight of <u>34</u> lbs.) to a **maximum of 2200 lbs**.
- 7. Position the boom level and fully retracted.
- 8. Referring to the Stability Chart (drawing 20907) rotate the crane to a position between 1 and 2 o'clock (truck cab is facing 12 o'clock) to begin testing.
- 9. Use the winch to lift the Test Weight; DO NOT allow the weight to be more than 6" off the ground at any time during testing (for safety).
- 10. Using the test weight, extend the boom slowly, until one of two conditions occur:
- 10.1. Full extension is reached Mark the ZONE in question 100%
- 10.2. The truck becomes unstable i.e. a tire lifts off the ground
 - 10.2.1. Retract the boom until at least one tire on each corner of the truck is making contact with the ground
 - 10.2.2. Use the formula below to determine the allowable % of Rated Capacity for the ZONE in question
- 11. Note: The "<u>Max Stable Reach in inches"</u> is measured (horizontally) from the center of rotation of the crane housing to the *lifting load hook.*

"Max Stable Reach" in inches"

X 100

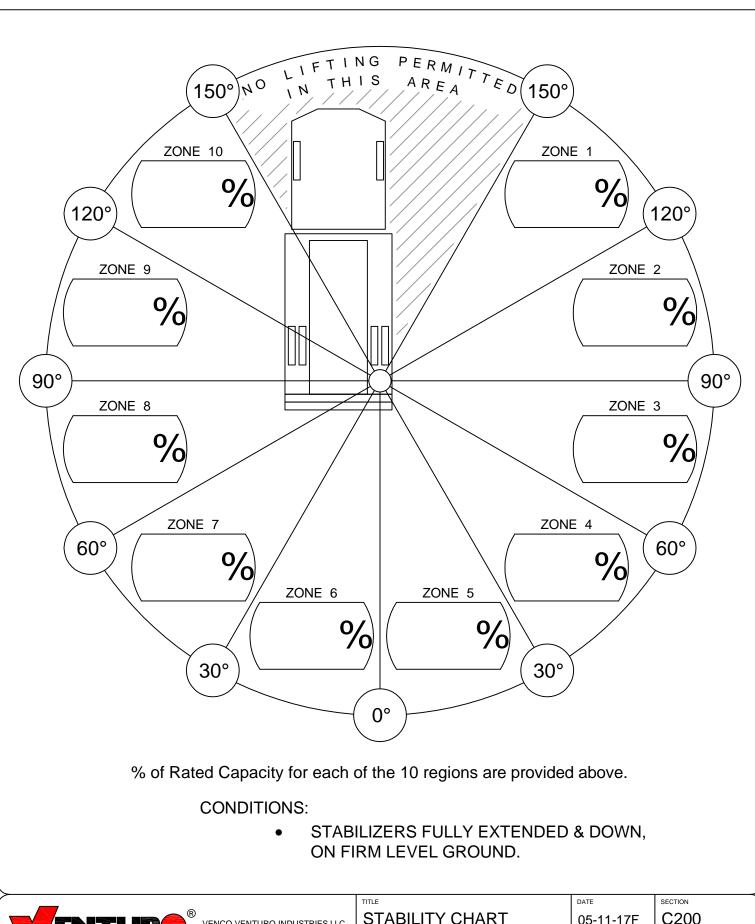
248

- 12. Record the <u>% of Rated Capacity</u> 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.

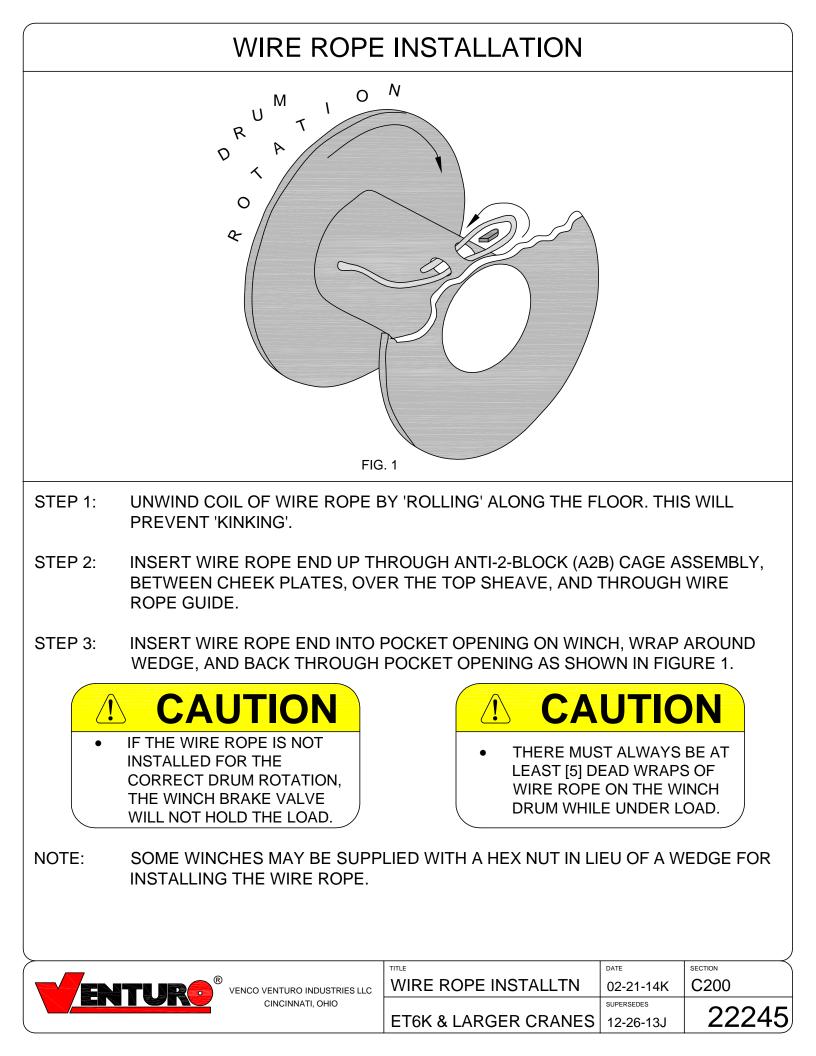
% Rated Capacity =

TITLE	^{DATE}	SECTION
STABILITY TEST	03-17-23E	C200
ET36-20' SERIES	SUPERSEDES	

CRANE STABILITY



VENCO VENTURO INDUSTRIES LLC	STABILITY CHART	05-11-17F	C200
CINCINNATI, OHIO	VENTURO CRANES	SUPERSEDES	20907
	VENTURO CRAINES	02-21-14E	20001

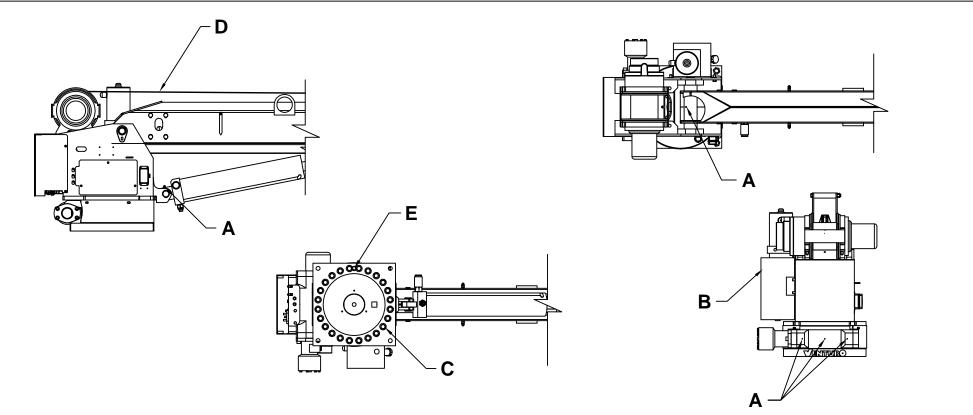


MAINTENANCE

&

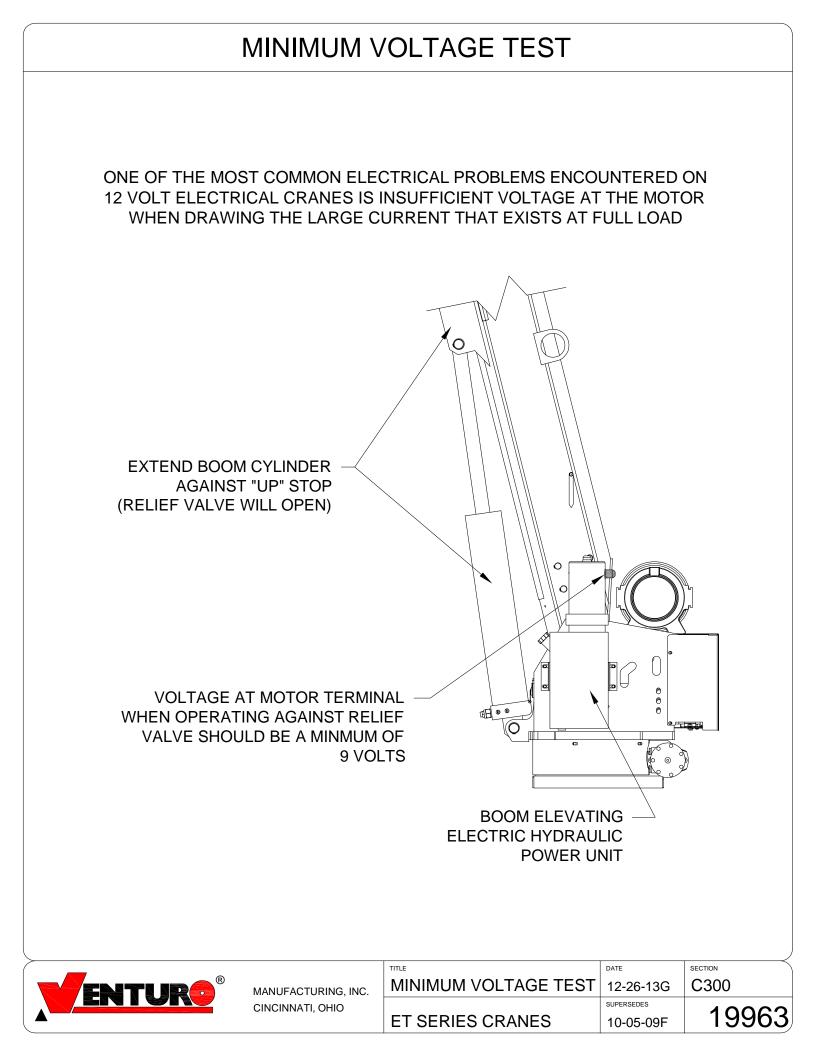
SERVICE

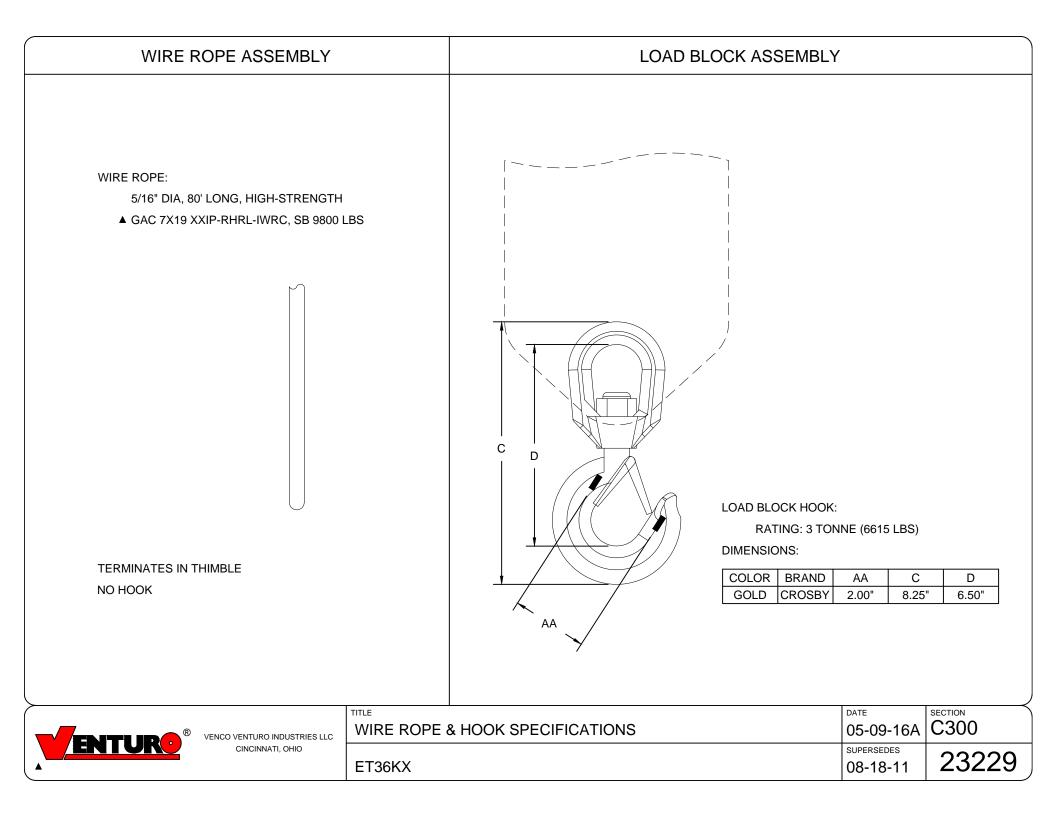




Location	Service Required	Note	Service Interval
Α	Grease fitting With Pressure Grease Gun	USE ELECTRICALLY CONDUCTIVE GREASE Example: Fuch's Renolit Aluminum Complex Grease P/N 155250-2 (or equivalent).	Time of Truck Service
В	Fill Oil Reservoir to Oil Level with Boom Down	ISO Grade AW 46 for Use ISO Grade 68 or	Time of Truck Service and as requried by changes in the ambient temperature range
С	Check Torque of bolts		Time of Truck Service
D	Check Wire Rope and Hook	Rope should be free of kinks and fraying	Time of Truck Service
Е	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

		^{date} 07-29-19A	SECTION
ENTURE MANUFACTURING, INC. CINCINNATI, OHIO	ET25/30/36KX(X)	supersedes 08-11-09	21878





MANUAL OVERRIDE INSTRUCTIONS ET NON-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 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

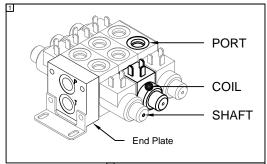
3-STATION FUNCTIONS include previous functions, plus: BI = Boom In BO = Boom Out

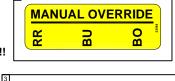
ALWAYS BE SURE TO CHECK HYDRAULIC OIL LEVEL BEFORE PROCEEDING. IT IS RECOMMENDED TO REMOVE ANY ITEM(S) THAT MAY INTERFERE WITH OPERATING THE CRANE MANUALLY. IF POSSIBLE, STRAPS AND/OR HARNESSES SHOULD BE REMOVED BEFORE OPERATING A CRANE IN MANUAL OVERRIDE !!

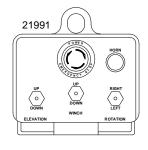
Procedure:

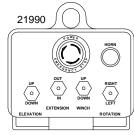
- 1. Turn Master disconnect switch to "ON"
- 2. Power up the pendant / radio
- 2.1. PENDANT twist EMERGENCY STOP button clockwise
- 2.2. RADIO Press green ON button
- 3. On the crane, reference the function you wish to perform using the manual override decal
- 4. Using a tool with a diameter of 1/8" 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













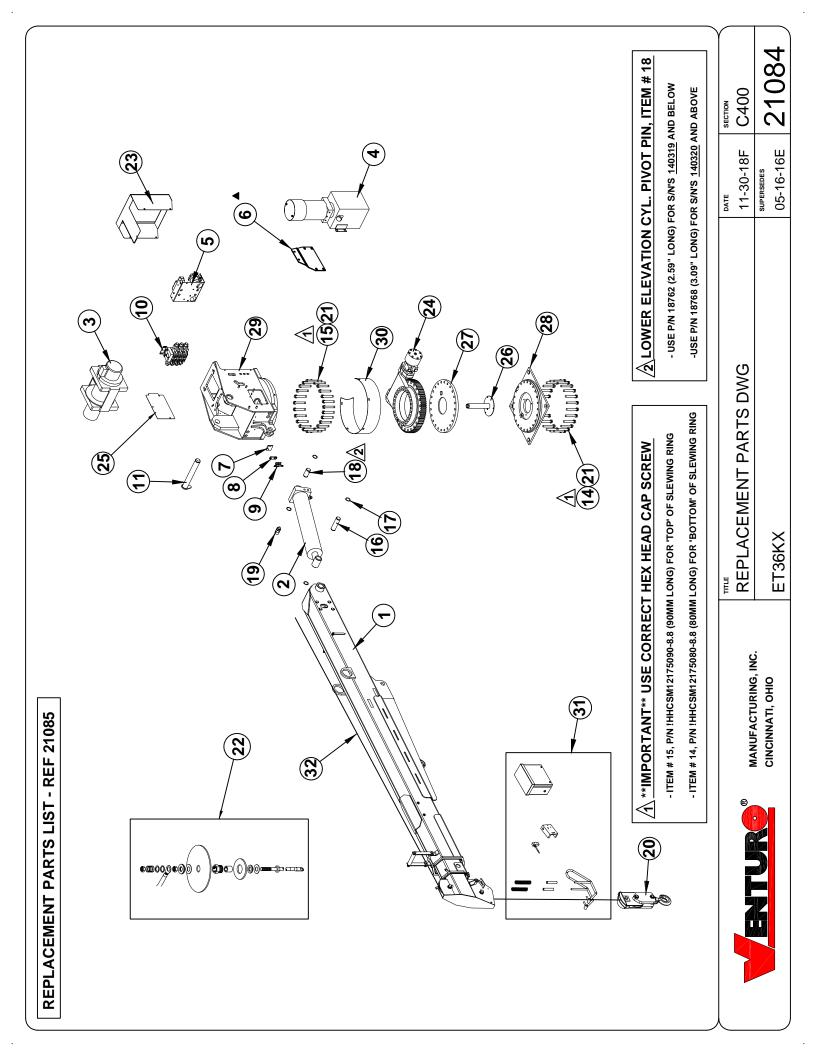
For assistance, please feel free to contact Technical Support at 800-226-2238.



®	VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE MAN. OVERRIDE INSTR.	^{DATE} 03-08-19A	C200
		ET NON-PROP CRANES	SUPERSEDES 02-09-17	23084

REPLACEMENT PARTS





REPLACEMENT PARTS LIST; ET36KX

_				
	32	1	27669	5/16-80 HIGH STRENGTH WIRE ROPE
	31	1	27738	ANTI-2-BLOCK MECHANICAL ASS'Y.
	30	1	27186	COVER; SLEWING RING
	29	1	27184-1	WELDED ASS'Y.; HOUSING (ET36KX)
	28			WELDED ASS'Y.; BASE
	27	1	27520H	SPACER
	26	1	27568	CANDLESTICK ASS'Y.; SWIVEL PIGTAIL
	25	1	27000	SIDE COVER; HOUSING
	24	1	21418	SLEWING RING
	23	1	27600	REAR COVER; HOUSING
	22	1	16780-1	SWIVEL TERMINAL ASS'Y.
	21	50	!LWSH-050	LOCK WASHER; 1/2"
	20	1	27667-1	LOAD BLOCK - 6000 LBS.
	19	1	17460-2900-21	OVERLOAD PRESSURE SWITCH
	18	1	SEE NOTE 2 BELOW	PIVOT PIN; ELEVATION CYLINDER
	17	4	!SRNG-125	RETAINING RING; 1 1/4" SHAFT DIA.
	16	1	18761	PIVOT PIN; ELEVATION CYLINDER
	15	26	!HHCSM12175090-8.8	HHCS; 12MM-1.75MM X 90MM LG, GR. 8.8
	14	24	!HHCSM12175080-8.8	HHCS; 12MM-1.75MM X 80MM LG, GR. 8.8
	13	1	27342	KIT; HYRAULIC HOSE / FITTINGS, ET36KX
	12	1	21106	KIT; ELECTRIC, ET18/25/30/36KX
	11	1	21012	PIVOT PIN; MAIN BOOM PIVOT
	10	1	28801	VALVE BLOCK - 3 SPOOL
	9	1	19917	SWITCH BRACKET; BOOM SHUT-OFF
	8	1	19918	SWITCH; BOOM SHUT-OFF
	7	1	20896	MOUNTING BLOCK; BOOM SWITCH
	6	1	27412	REINFORCING PLATE; POWER UNIT
	5	1	23154-2	ELECTRICAL COMPONENT ASS'Y.
	4	1	27512	HYDRAULIC POWER UNIT
	3	1	19813	ELECTRIC WINCH
	2	1	21752	ELEVATION CYLINDER
	1	1	27197	BOOM FINAL ASS'Y.
	ITEM NO.	QTY.	PART NO.	DESCRIPTION

2 LOWER ELEVATION CYL. PIVOT PIN, ITEM # 18

- USE P/N 18762 (2.59" LONG) FOR S/N'S 140319 AND BELOW

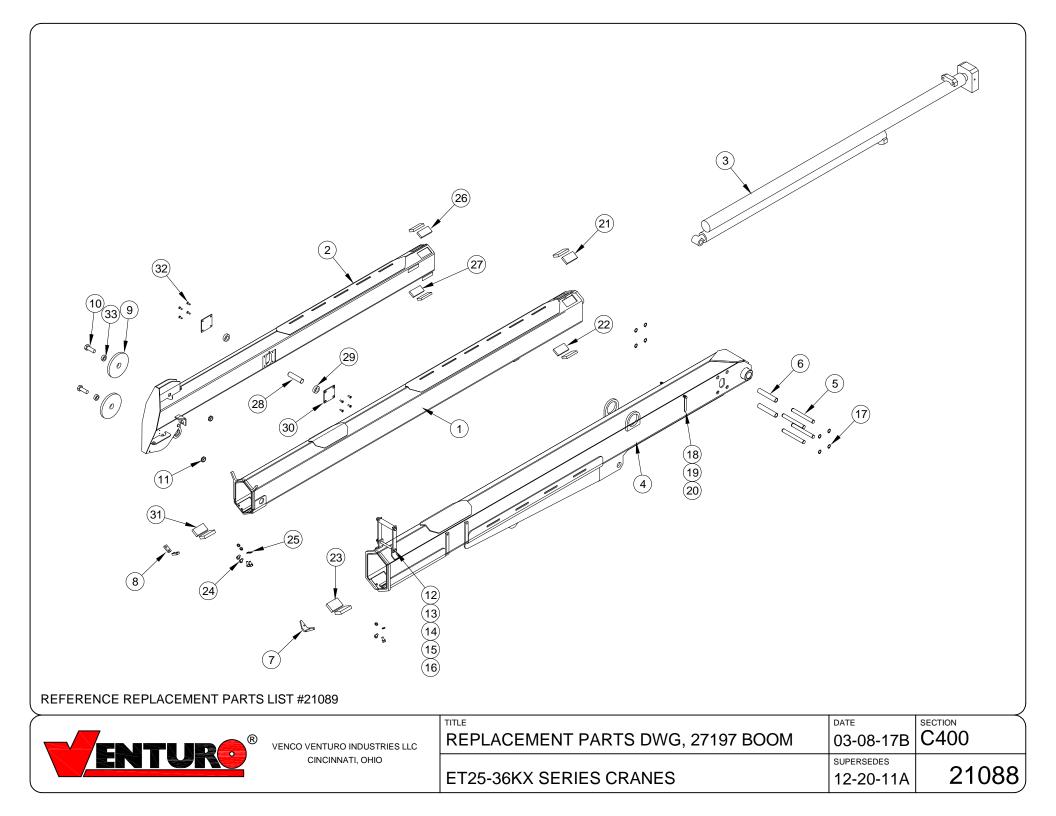
-USE P/N 18768 (3.09" LONG) FOR S/N'S 140320 AND ABOVE

REPLACEMENT PARTS DRAWING - REFERENCE 21084



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
RPLCMNT PARTS LIST	07-01-25K	C400
	SUPERSEDES	04005
ET36KX	11-30-18J	21085

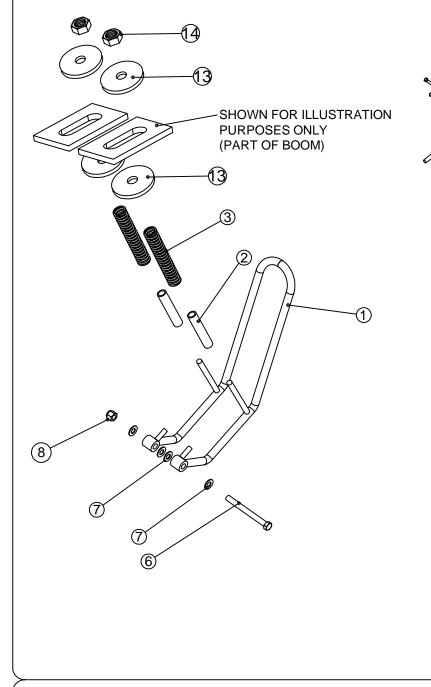


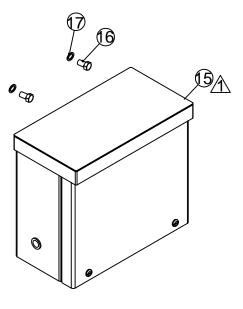
REPLACEMENT PARTS LIST, 27197 BOOM ET25-36KX SERIES CRANES

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





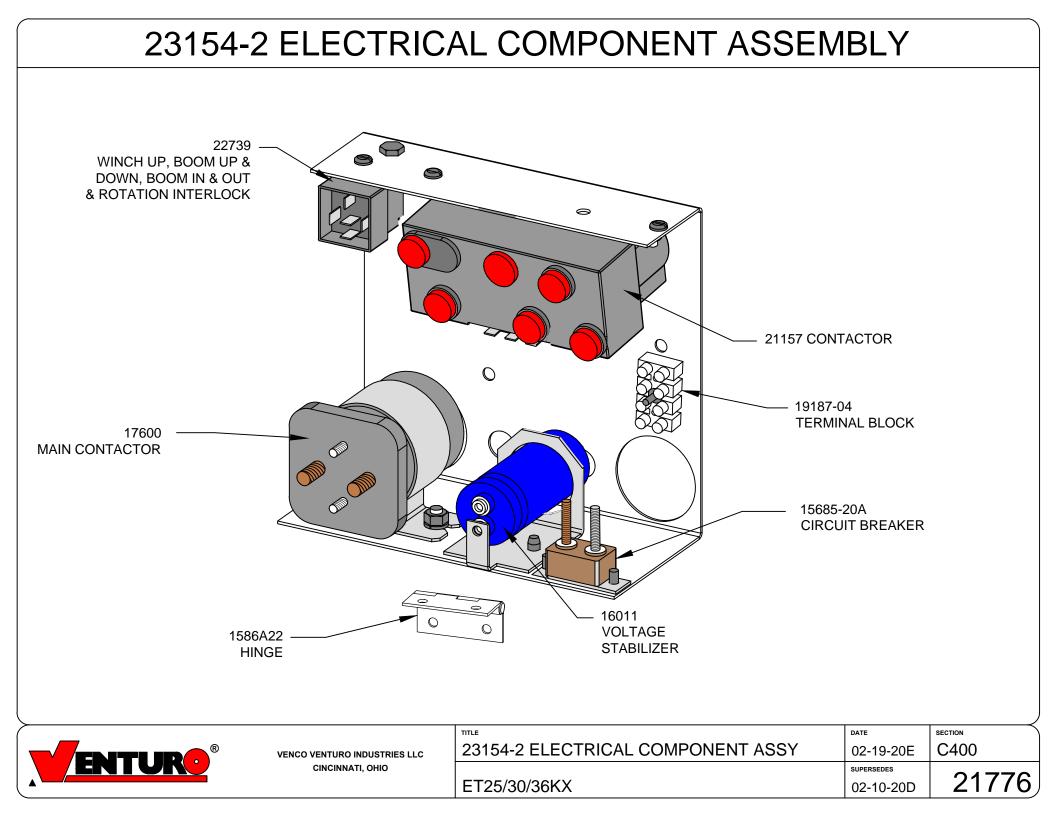


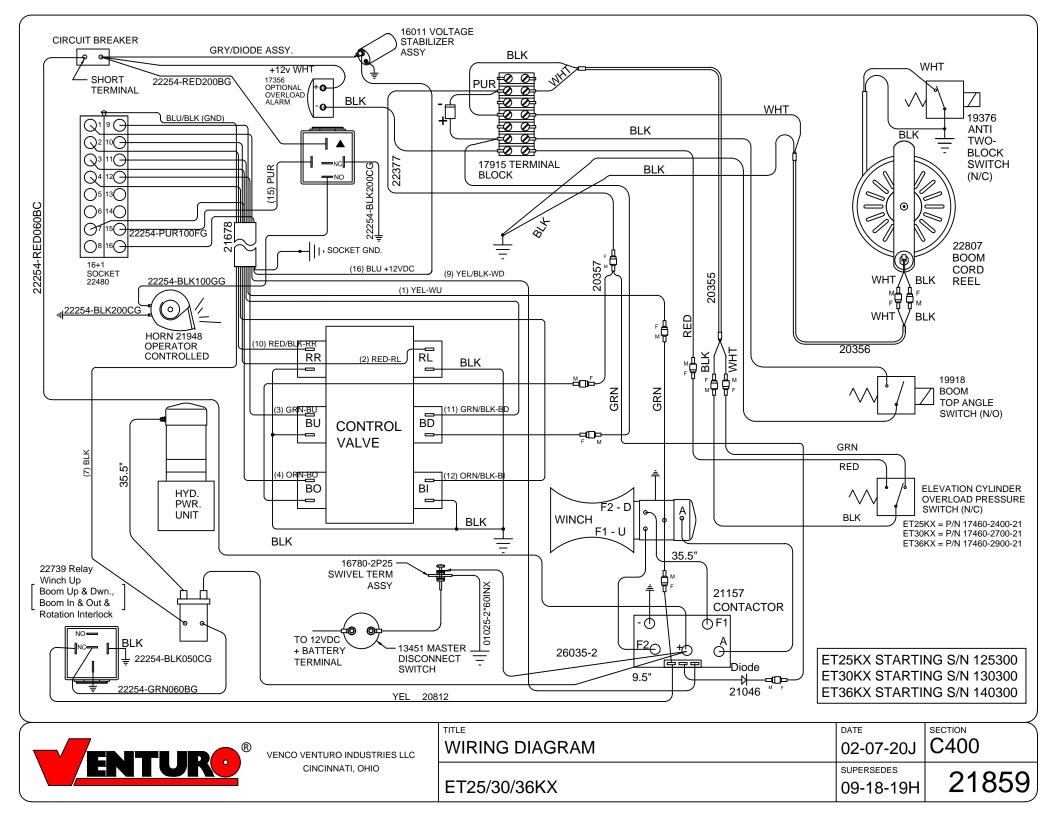
A FOR RT-HAND MNGT. USE CORD REEL P/N 27034-1

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	ILNUTM12X175	NYLOK NUT12MM-1.75	
7	4	!FWSH-044SAE	FLAT WASHER - 7/16 SAE	
6	1	!HHCSM12M120) HEX HEAD CAP SCREW 12MM X 120MM LON	
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	



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.			
STEP 2	ANTI-TWO BLOCK (A2B) SWITCH ADJUS	TMENT		
	The A2B switch is adjusted by loosing the P	ivot & Adjustment Fasteners of the A	2B switch hou	sing.
	Once loosened the A2B switch and housing Wand' to be adjusted to the 'Cage Actuating		stener' allowing	g the 'Switch
	With the A2B Switch Wand inserted into the Counter-Clockwise until you hear the 'click' of A2B switch 'UN-CLICKS' and then tighten th	of the A2B switch then rotate Clockw	ise 'just until' tł	ne
A2B S				
CAGE A ADJUST	ACTUATING TUBE MENT FASTENER PIVOT FASTENER			
STEP 3	TESTING ADJUSTMENT			
	Lift up on the A2B Cage Assy. until the A2B distance under the spring hanger nut; the distance approximately 1/2 of an inch.		– SPRING HA 	NGER NUT
	Note: If the distance under the nut is greater than 3/4 of an inch repeat STEP 2 above.		APPRO	<u>X.</u> 1/2 "
A2B C	CAGE WELDED ASSY.		LIF	T UP HERE
		TITLE	DATE	SECTION
		WIRING & ADJUSTMENT	02-21-14A	C400
		A2B SYSTEM	SUPERSEDES	27029



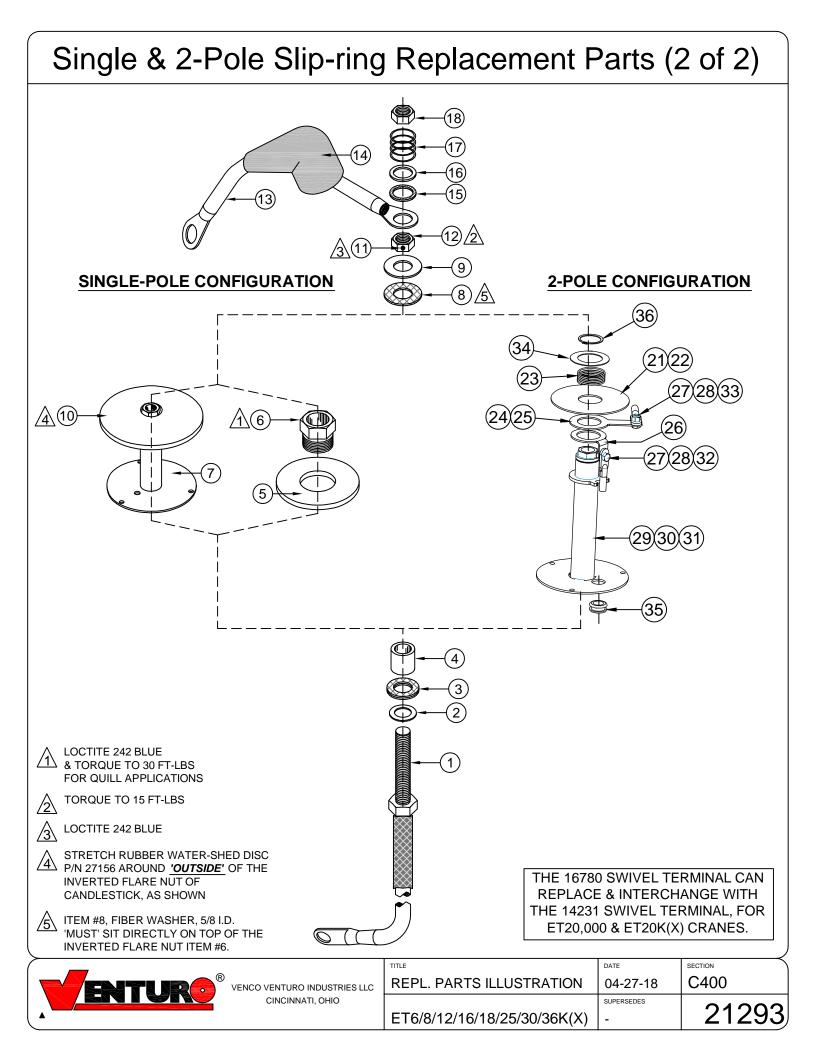


Single & 2-Pole Slip-ring Replacement Parts (1 of 2)

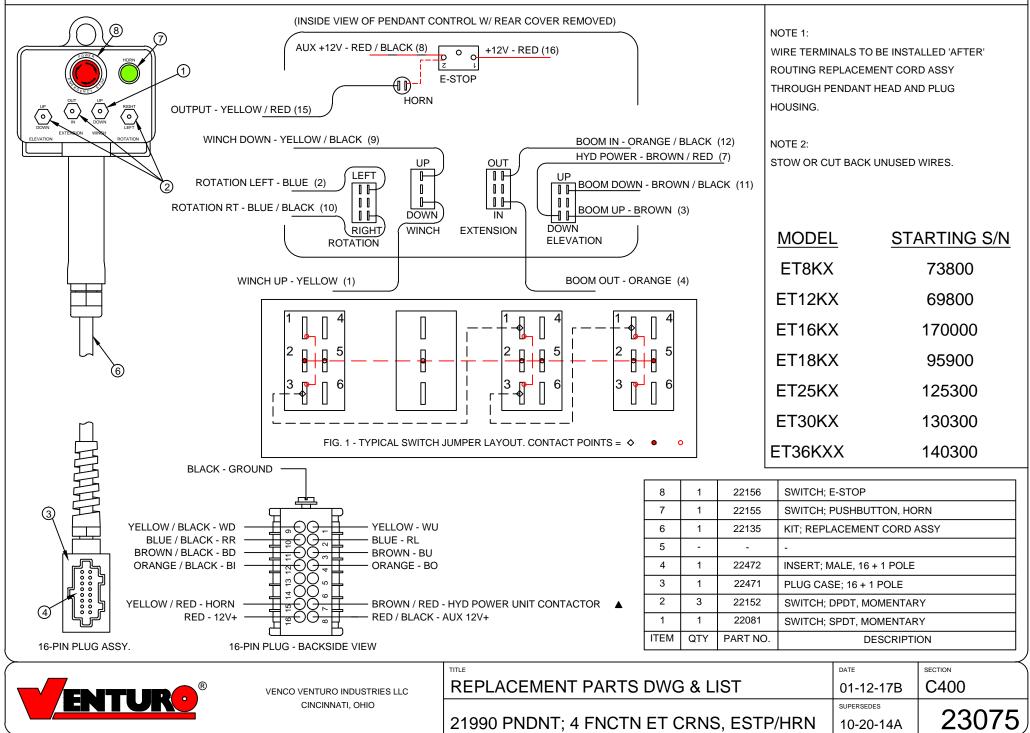
Quill Rotation	Slew Rotation Single Pole Slip-Ring	Slew Rotation 2-Pole Slip- Ring (ET6K ONLY)	Slew Rotation 2-Pole Slip- Ring (ET8-18KX)	Slew Rotation 2-Pole Slip- Ring (ET25-36KX)	ALL CRANES		16780 BILLS OF MATERIALS		
16780	16780 - 1	16780 - 2 <mark>P</mark> 6	16780 - 2P8	16780 - 2P25	16780 - KIT				
		Q	TY			#	PART	DESCRIPTION	
1	1	1	1	1		1	<mark>1</mark> 6783	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	!FWSH-063SAE	FLAT WASHER; 5/8" SAE	
-	1	-	-	-	-	10	27156	RUBBER WATER SHIELD; 1/8" THICK	
1	1	1	1	1	1	11	ISHCS02528025KC		
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		
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	-	- 1	8	25 26	27441 27449-1	COPPER SLIP-RING, (ET6K ONLY) BRASS SLIP-RING (ET6 - ET36)	
-		1	1	1	2	27	IHHCS03118075-B	BRASS SLIP-RING (ET6 - ET36) BRASS HHCS	
-	-	1	1	1	-	28	!HNUT-03118-B	BRASS NYLOC NUT	
-	-	1	-	: -	-	29	23255	SLIP-RING, WELDED ASSY, ET6K	
-	-	-	1	-		30 31	23255-1 23255-2	SLIP-RING, WELDED ASSY, ET8 - 18K(X)	
-	-	- 1	- 1	1	-	32	02025-2*96.5INX	SLIP-RING, WELDED ASSY, ET25 - 36K(X) (-) WELDING CABLE ASSY, BRASS SLIP-RING	
-	-	1	1	1	-	33	02025-2*22.5INX		
5	Ξ.	1	1	1	Ŧ	34	27463	SHIM, WIDE RIM, 18GA, 2-1/4 O.D. X 1-1/2 I.D.	
	-	1	1	1	-	35	20889	RUBBER GROMMET	
-	Ξ.	1	1	1	-	36	ISRNG-150	SNAP-RING, EXTERNAL, 1-1/2"	

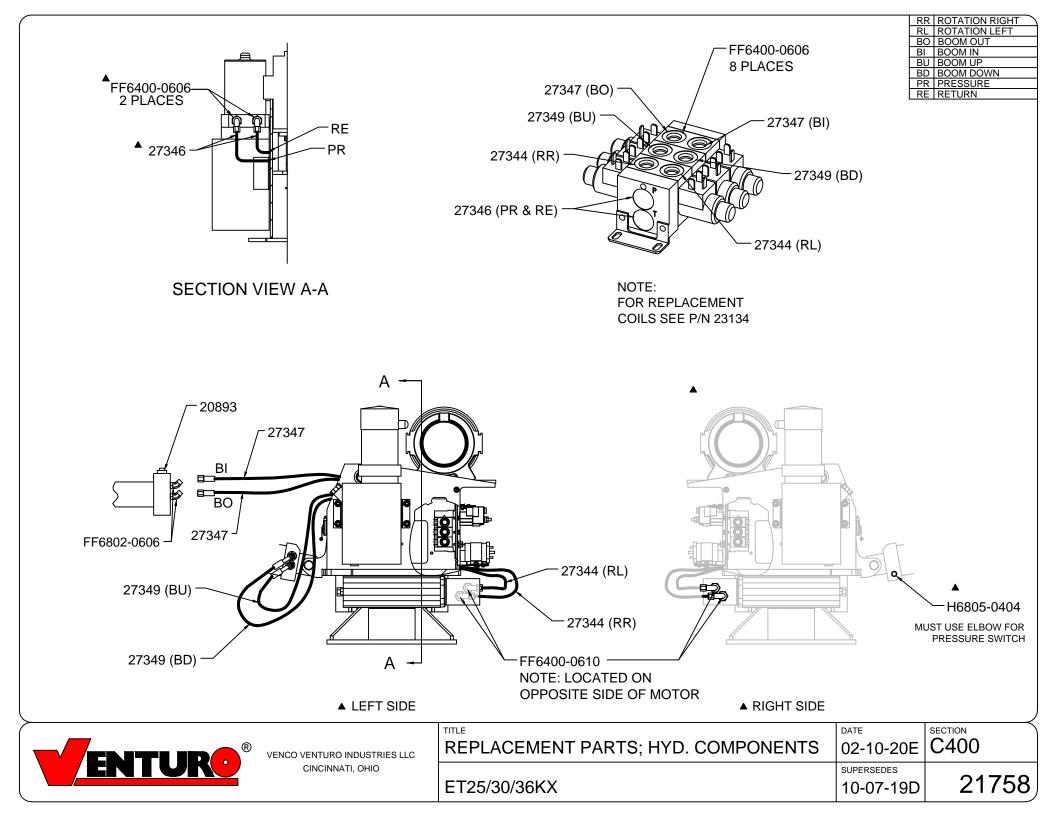
ENTUR	/ENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO
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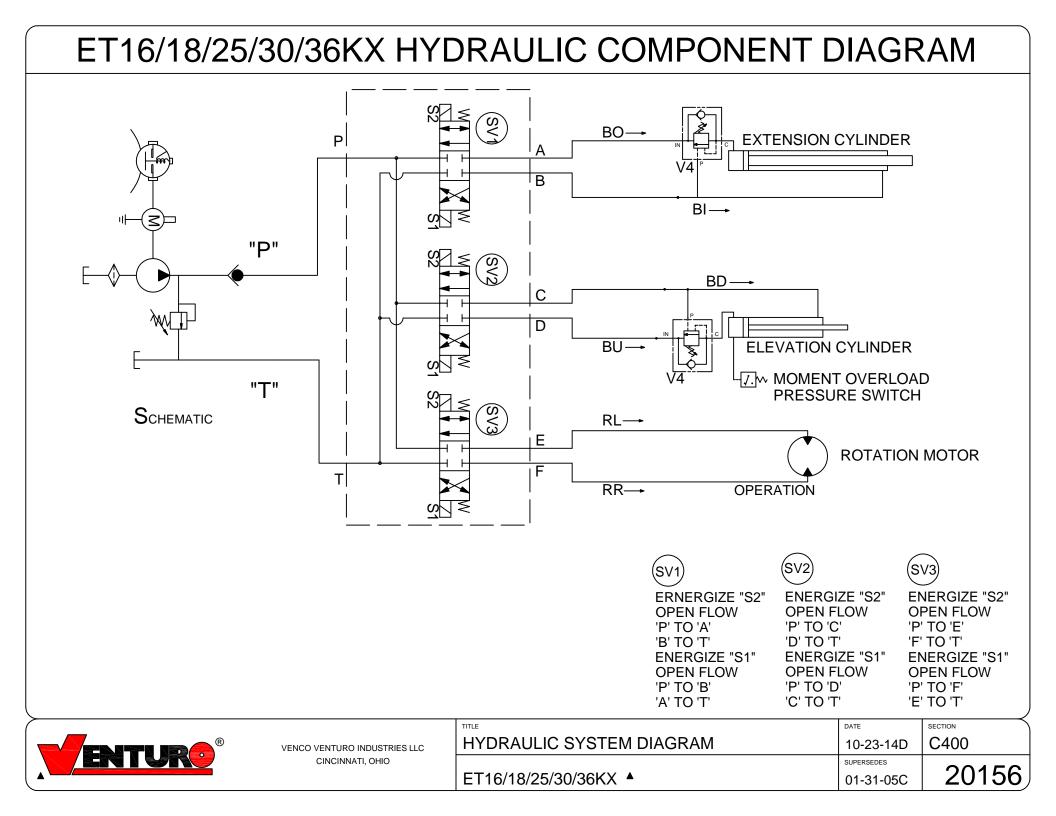
TITLE	DATE	SECTION
16780 REPLACEMENT PARTS	03-29-19A	C400
	SUPERSEDES	04000
ET6/8/12/16/18/25/30/36K(X)	04-27-18	21292

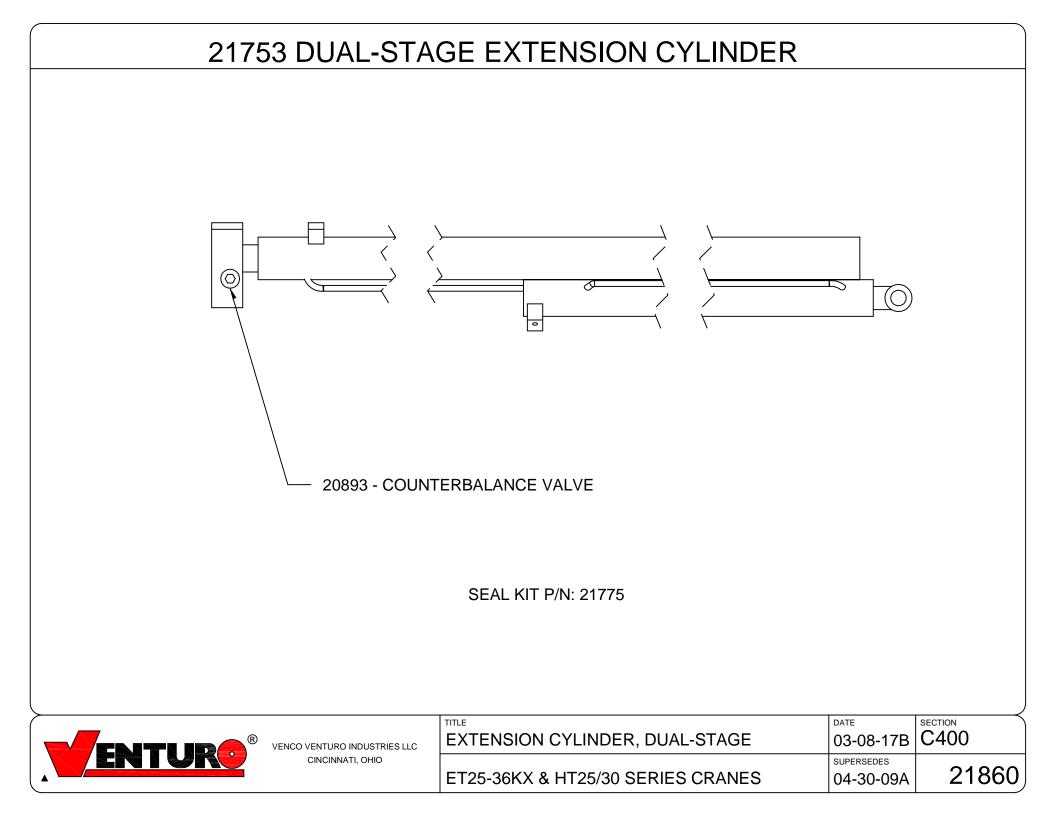


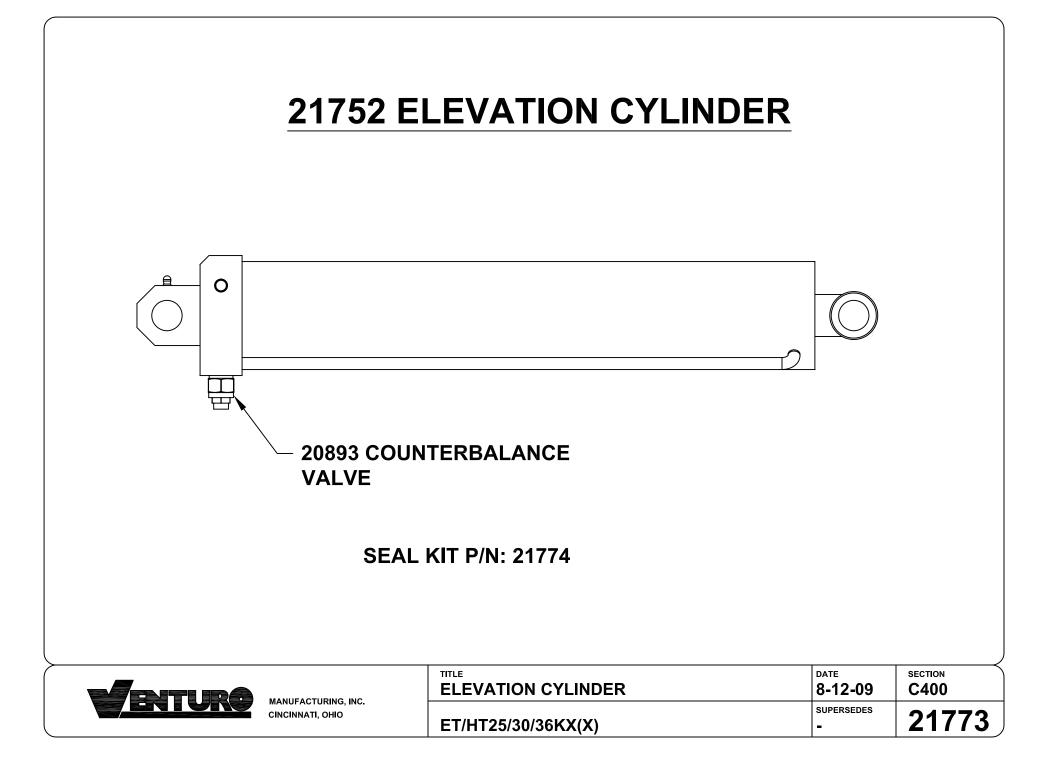
21990 PENDANT; 4 FUNCTION ET CRANES, E-STOP / HORN



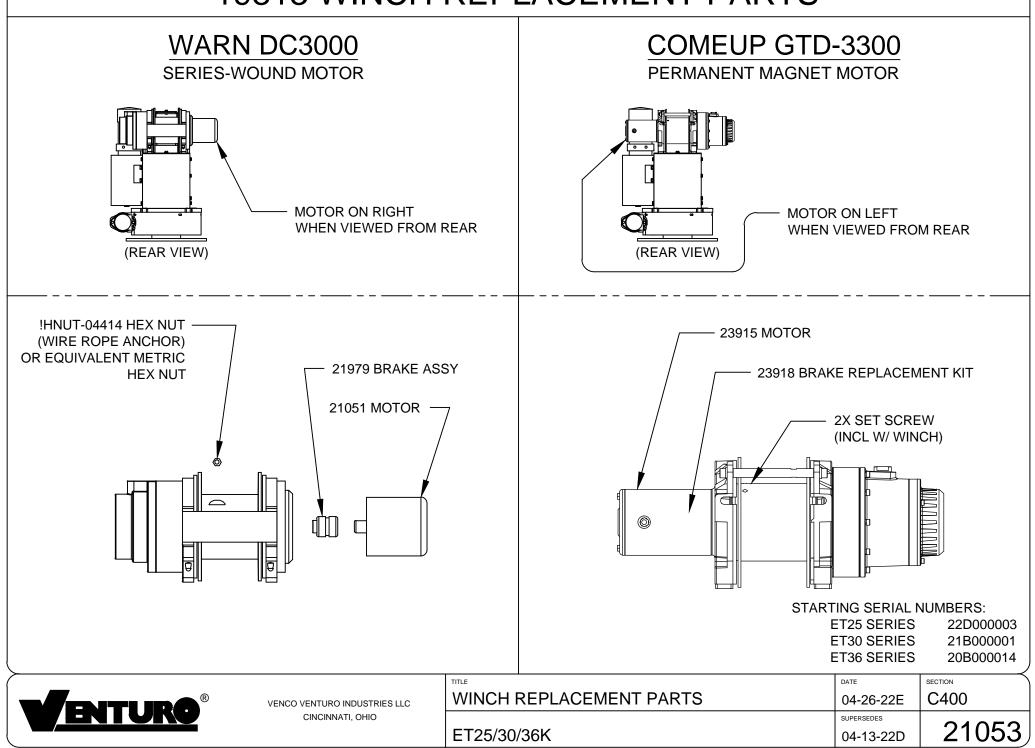


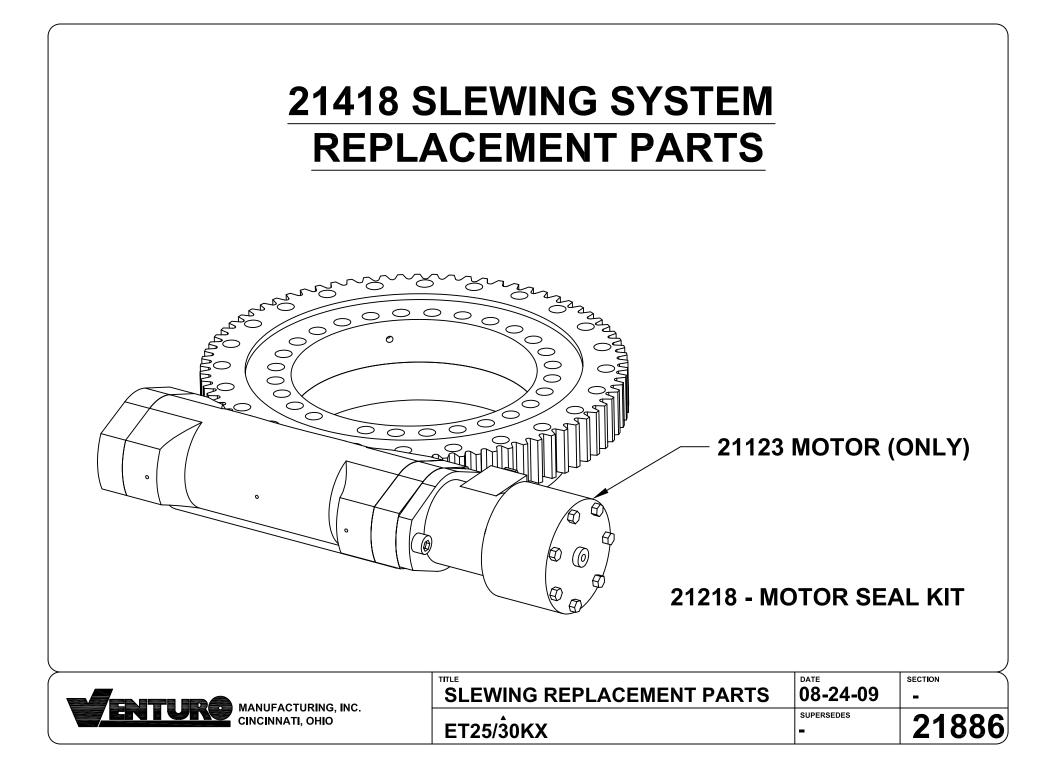


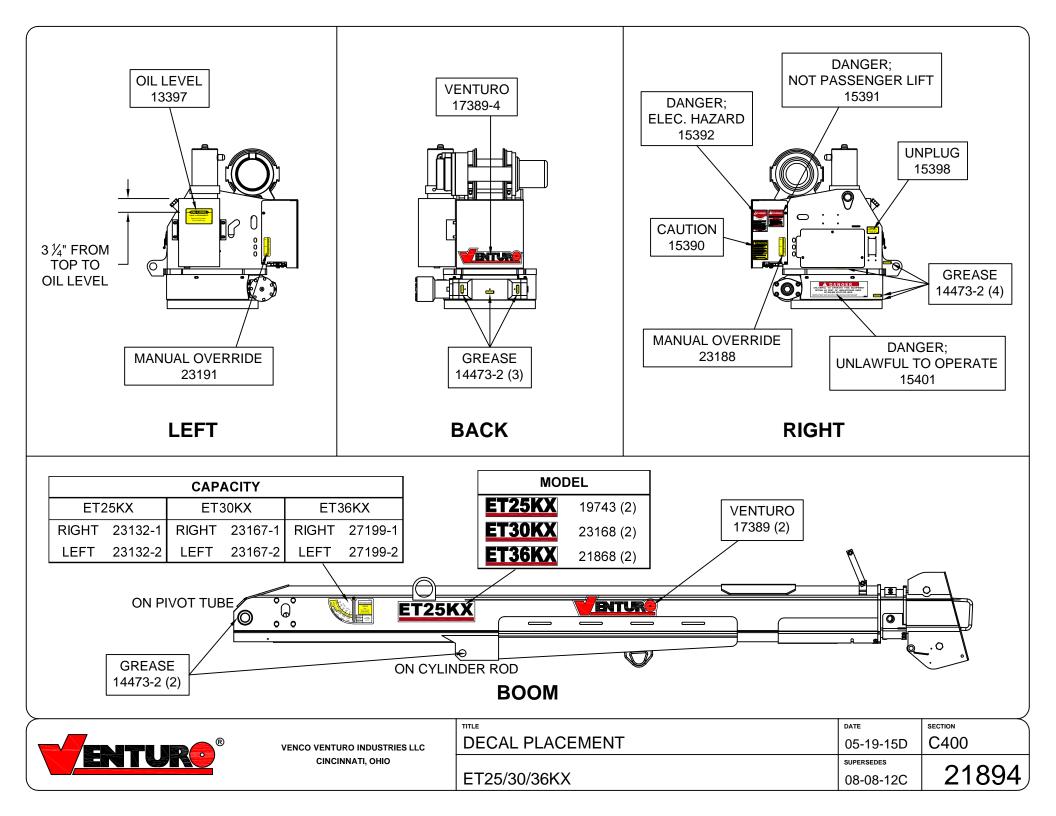




19813 WINCH REPLACEMENT PARTS







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



	TITLE	DATE	SECTION
VENTURO INDUSTRIES LLC	FIELD SERVICE LABEL KIT	03-13-23F	C400
CINCINNATI, OHIO		SUPERSEDES	21000
	ET25/30/36KX	08-04-20E	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.

<u>1-Year Limited Warranty Policy</u>

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

12110 BEST PLACE | CINCINNATI, OHIO 45241 P: 800-226-2238 | F: 513-326-5427 www.venturo.com

Revised: January 2015

12-00073_VNT1-D