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Pages 1 - 60

PARTS & INSTALLATION MANUAL ET12K(X)(P)-15'

Included in this manual:

ET12K

- 3,500 lbs Electric Telescopic Service Crane
- 7 11 15 ft Manual, Pullout, Boom Extensions

ET12KX

- 3,500 lbs Electric Telescopic Service Crane
- 7 11 ft Powered, Single-Stage, Boom Extension
- 11 15 ft Manual, Pullout, Boom Extension

ET12KXP-15'

- 3,500 lbs Electric Telescopic Service Crane
- 7 11 ft Powered, Single-Stage, Boom Extension
- 11 15 ft Manual, Pullout, Boom Extension
- Proportional Controls

VENCO VENTURO INDUSTRIES LLC

12110 BEST PLACE | CINCINNATI, OHIO 45241

800-226-2238



This manual also available online at www.venturo.com

ET12KX-15

INST-28070 - 1/16/2024 (Rev: D2)

DESCRIPTION & SPECIFICATIONS 7607100A

INSTALLATION DIMENSIONS 28071 21592 BASE MOUNTING DIMENSIONS

CAPACITY CHART 21575

TYPICAL REINFORCEMENT FOR MOUNTING CRANE ON TOP OF SERVICE BODY 16941

21571 MOUNTING PEDESTAL 21594

7607150A SAFETY

SAFETY & HAZARDS - GENERAL, 1/2 850711 850712

SAFETY & HAZARDS - GENERAL, 2/2 VEHICLE & CRANE ELECTRIC HAZARD INFORMATION 15394

SAFETY DECALS 21353

DECALS FOR ET CRANES 21354 ADDITIONAL DECALS 28545 28551 MODEL & CAPACITY DECALS

7607200A INSTALLATION

CABLE & BATTERY REQUIREMENTS - ET & HT CRANES CABLE & BATTERY INSTALLATION DRAWING STABILITY TESTING 711105

15660

20906-12 STABILITY CHART 20907

22245 WIRE ROPE INSTALLATION ADJUSTABLE BOOM REST 20872

7607300A MAINTENANCE & SERVICE

900530a **OPERATION & MAINTENANCE INSTRUCTIONS** OPERATION & MAINTENANCE INSTRUCTIONS OPERATION & MAINTENANCE INSTRUCTIONS LUBRICATION & MAINTENANCE CHART 900530b 900530c

21306

MINIMUM VOLTAGE TEST 19963

23225 WIRE ROPE & HOOK SPECIFICATIONS

MANUAL OVERRIDE INSTRUCTIONS, NON-PROPORTIONAL MANUAL OVERRIDE INSTRUCTIONS, PROPORTIONAL 23084 23775

7607400A REPLACEMENT PARTS

REPLACEMENT PARTS DRAWING; MECHANISM 28063 28064

REPLACEMENT PARTS LIST; MECHANISM
REPLACEMENT FASTENERS DRAWING; MECHANISM
REPLACEMENT FASTENERS LIST; MECHANISM 28066 28067

28123 REPLACEMENT PARTS DRAWING: BOOM ASSEMBLIES REPLACEMENT PARTS LIST; BOOM ASSEMBLIES REPLACEMENT FASTENERS DRAWING; BOOM ASSEMBLIES 28124

28125 REPLACEMENT FASTENERS LIST; BOOM ASSEMBLIES 28126

21515 ELECTRICAL COMPONENT ASSY 21600 26521

WIRING DIAGRAM, ET8/12K SERIES CRANES
WIRING DIAGRAM, ET8/12K SERIES CRANES W/ WINCH CONTACTOR
WIRING DIAGRAM, ET8/12KX SERIES CRANES
WIRING DIAGRAM, ET8/12KX SERIES CRANES
WIRING DIAGRAM, ET8/12KX SERIES CRANES W/ WINCH CONTACTOR 26536

26522

26537

26523 WIRING DIAGRAM, ET8/12KXP SERIES CRANES

WIRING DIAGRAM, ET8/12KXP SERIES CRANES W/ WINCH CONTACTOR 26538 28037

HYDRAULIC SYSTEM COMPONENTS REPLACEMENT PARTS DRAWING HYDRAULIC SYSTEM SCHEMATIC, NON-PROPORTIONAL HYDRAULIC SYSTEM SCHEMATIC, PROPORTIONAL REPLACEMENT PARTS LIST; SINGLE / 2-POLE SLIP-RING 21602 28077 21292 21293

REPLACEMENT PARTS DRAWING; SINGLE / 2-POLE SLIP-RING 21991 PENDANT; REPLACEMENT PARTS DRAWING / LIST (3 FUNCTION) 21990 PENDANT; REPLACEMENT PARTS DRAWING / LIST (4 FUNCTION) 23076 23075

23786 22158 RADIO: REPLACEMENT PARTS DRAWING/LIST 21556 WINCH REPLACEMENT PARTS DRAWING / LIST 21741

20873 HYDRAULIC POWER UNIT REPLACEMENT PARTS DRAWING / LIST 16942

21735 SLEWING REPLACEMENT PARTS DRAWING 21973

28543 **DECAL PLACEMENT**

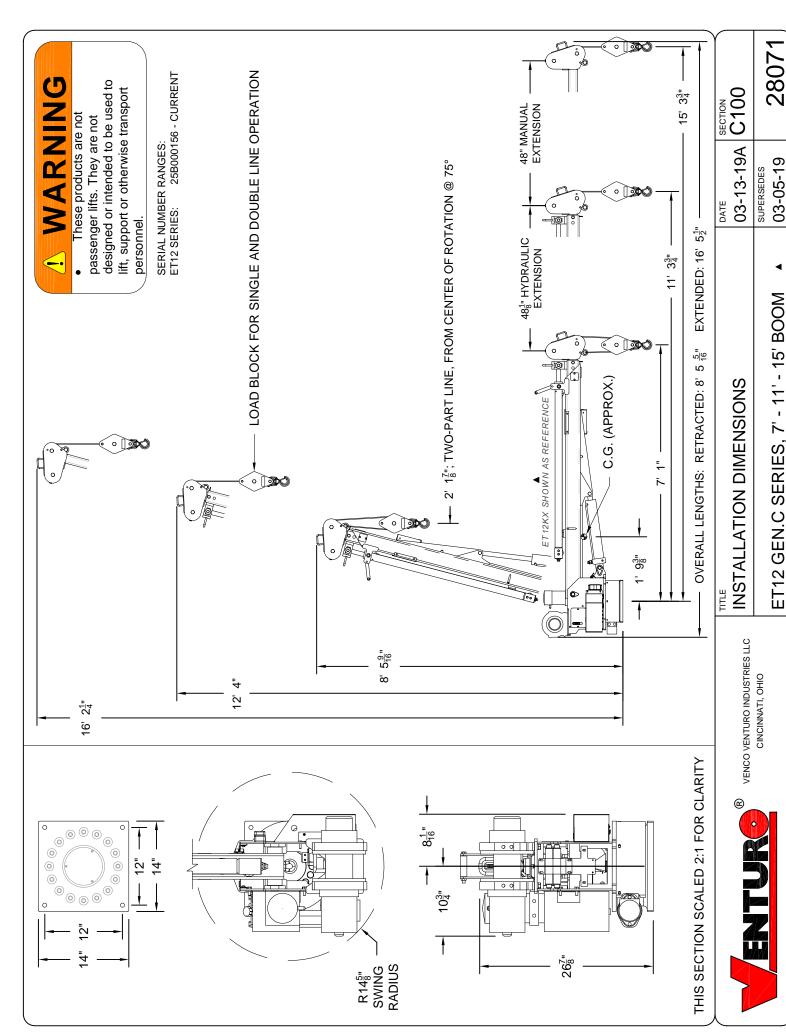
28552 FIELD SERVICE LABEL KITS; ET12 SERIES (7-11-15)

12-00073_VNT1 WARRANTY PAGE

SECTION 100

DESCRIPTION & SPECIFICATIONS



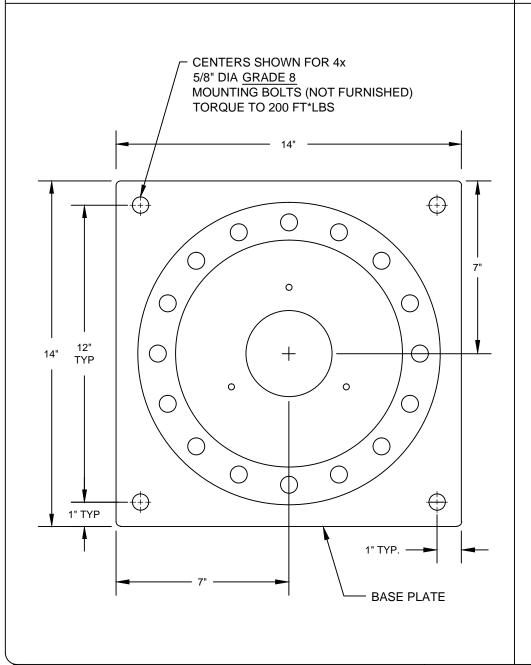


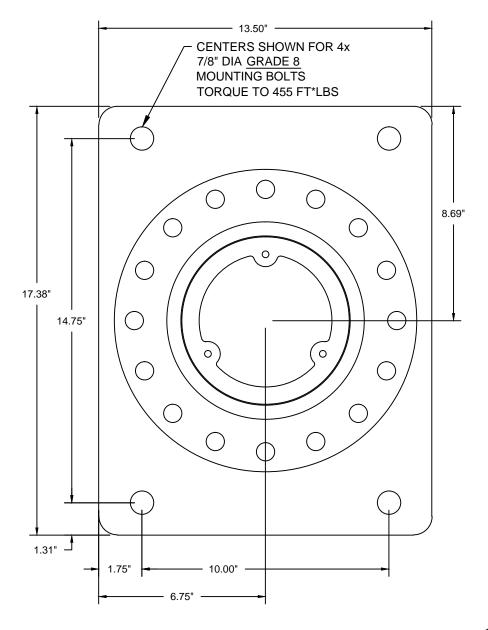
03-05-19

7' - 11' - 15' BOOM

21735 - SQUARE

21735-WRB/CRB - RECTANGULAR







VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

21735 BASE MOUNTING DIMENSIONS

SECTION 03-06-23G C100 SUPERSEDES

ET8/12/16/18 CRANES

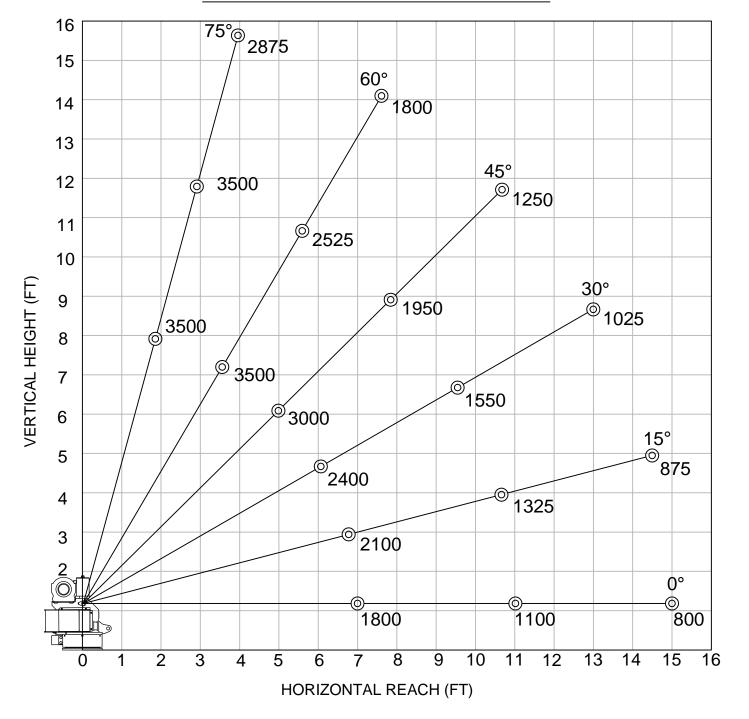
10-22-14F

21592

▲ ET12 SERIES, 7'-11'-15' BOOM

CRANE SERIAL NUMBER: _____

MAXIMUM LOAD CAPACITY CHART

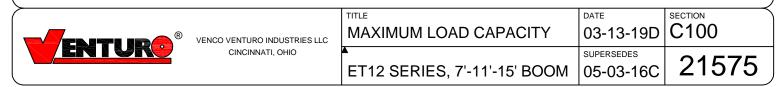


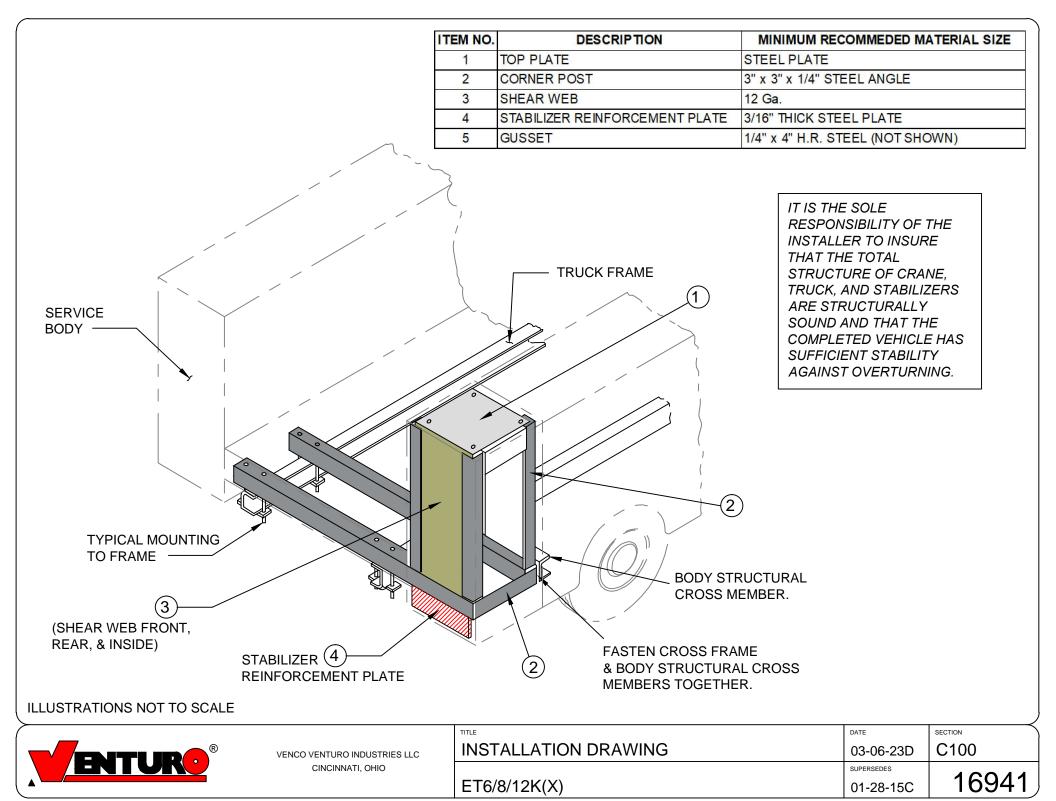
WEIGHT OF LOAD HANDLING DEVICES ARE PART OF THE LOAD AND MUST BE DEDUCTED FROM THE GROSS CAPACITY.

LOAD BLOCK USAGE

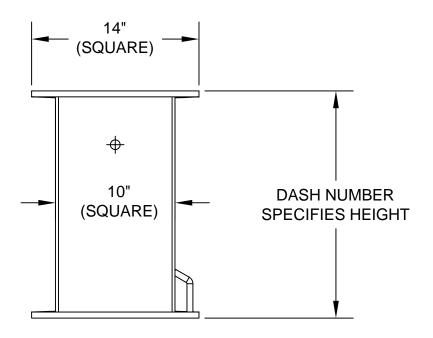
1 PART LINE FOR LOADS LESS THAN 1750 LBS 2 PART LINE FOR LOADS OF 1750 LBS AND GREATER

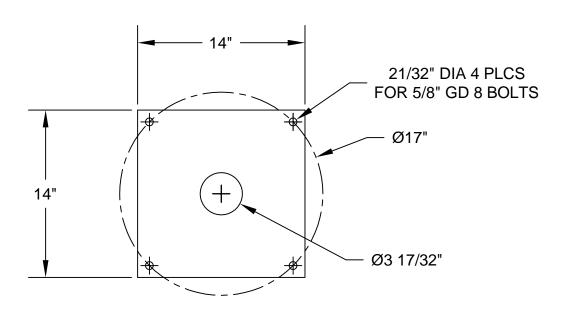
WEIGHT OF LOAD BLOCK = 24 LBS





21571-XX MOUNTING PEDESTAL





TITLE	DATE	SECTION
21571 MNTNG PEDESTAL	03-08-19D	C100
	SUPERSEDES	04504
ET8/12 SERIES CRANES	11-20-14C	21594

SECTION 150

SAFETY



CRANE SAFETY AND HAZARDS

CAUTIONS

- 1. INSPECT VEHICLE AND CRANE, INCLUDING OPERATION, PRIOR TO USE DAILY.
- 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

R VENCO VENTURO INDUSTRIES LLC	SAFETY & HAZARDS	01-29-15K	C150
CINCINNATI, OHIO	ELECTRIC CRANES	supersedes 12-20-13J	850711

CRANE SAFETY AND HAZARDS - CONT'D

OVERLOAD ALARM SYSTEM - OPTIONAL

- 1. OVERLOAD ALARM HORN SOUNDS IF RATED LOAD IS EXCEEDED AT ANY REACH.
- 2. IF ALARM SOUNDS, RAISE BOOM OR LOWER WINCH TO REMOVE OVERLOAD.
- 3. ALWAYS RAISE BOOM SLIGHTLY BEFORE LIFTING LOAD. WARNING SYSTEM INOPERATIVE WHEN CYLINDER IS COMPLETED BOTTOMED.
- 4. ALARM CAN BE TESTED BY TYING DOWN BOOM WITH WINCH CABLE AND OPERATING BOOM UP OR BY RAISING BOOM AGAINST UP LIMIT STOP.

NOTICE - WARRANTY VOID IF DISCONNECTED

THIS ALARM SYSTEM HAS BEEN INSTALLED AS A SAFETY FEATURE TO PROTECT BOTH THE EQUIPMENT AND THE OPERATOR.

DO NOT DISCONNECT THIS SYSTEM

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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.

UNLAWFUL TO OPERATE THIS EQUIPMENT

WITHIN 20 FEET OF HIGH-VOLTAGE LINES OF 350,000 VOLTS OR LESS.

FOR MINIMUM CLEARANCES OF HIGH-VOLTAGE LINES IN EXCESS OF 350,000 VOLTS, REFERENCE OSHA 1926.1408. CRANE'S SAFETY MANUAL, AND CAL-OSHA ARTICLE 37, TITLE 8, HIGH-VOLTAGE ELECTRICAL SAFETY ORDERS.

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 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 (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



HAZARD APPS & INFO ET/HT CRANES

C150 02-21-14M SUPERSEDES 15394 12-20-13L

SECTION

DECAL #: 15390

CAUTION, INSPECT VEHICLE & CRANE... DESCRIPTION:

PURPOSE: TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS.

QUANTITY:

REAR COVER OR SIDE OF CRANE PLACEMENT:

CAUTION MOUNTED ON FACTORY-RECOMMENDED TRUCK. FOR OPERATING (LOAD) LIMITATION DO NOT OPERATE, WALK, OR STAND BENEATH BOOM OR A SUSPENDED LOAD. OR TRAVEL, BOOM MUST BE IN STOWED

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:

PLACEMENT: REAR COVER OR SIDE OF CRANE



YOU MUST NOT **OPERATE THIS CRANE UNLESS:**

OPERATE THIS CRANE UNLESS:
YOU HAVE BEEN TRAINED IN THE SAFE
OPERATION OF THIS CRANE; AND
YOU KNOW AND FOLLOW THE SAFETY AND
OPERATING RECOMMENDATIONS CONTAINED I
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.

15392 DECAL #:

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



THIS MACHINE IS NOT INSULATED **ELECTROCUTION HAZARD**

THIS LIFTING DEVICE DOES NOT PROVIDE PRO-TECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.

TO AN ELECTRICALLY CHARGED CONDUCTOR. 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 VOLTS. ON EFOOT ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.

DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE.

DECAL #: 15401

DESCRIPTION: DANGER, UNLAWFUL TO OPERATE

PURPOSE: TO INFORM OPERATOR OF PROPER OPERATION

IN VICINITY OF ELECTRICAL LINES.

QUANTITY:

PLACEMENT: RING COVER OR SIDE OF CRANE

UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN 20 FEET OF HIGH-VOLTAGE LINES OF 350,000 VOLTS OR LESS.

FOR MINIMUM CLEARANCES OF HIGH-VOLTAGE LINES IN EXCESS OF 350,000 VOLTS, REFERENCE OSHA 1926.140 CRANE'S SAFETY MANUAL, AND CAL-OSHA ARTICLE 37, TITLE 8, HIGH-VOLTAGE ELECTRICAL SAFETY ORDERS

DECAL #: 15393

DESCRIPTION: DANGER, ELECTROCUTION HAZARD, VEHICLE (TRUCK)

WARNS OF DANGER FROM ELECTRICALLY CHARGED PURPOSE:

VEHICLE, CRANE, OR LOAD.

QUANTITY:

PLACEMENT: EACH SIDE & EACH END OF VEHICLE





SECTION



TITLE

SAFETY DECALS

DATE

C150 04-29-16E

SUPERSEDES 10-24-13D

VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

VENTURO CRANES

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.

OIL LEVEL

AW46 or DEXRON III ATF

Retract All Cylinders
Prior to Servicing

3397-E

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.

UNPLUG
REMOTE CONTROL
PENDANT WHEN
NOT IN USE

DATE

11-12-19E

12-23-13D

SUPERSEDES



MANUFACTURING, INC.

CINCINNATI, OHIO

DECALS
ET CRANES

SECTION

PART NO.: 27007-03a (ET8) / 27007-04a (ET12) DECAL: LOAD BLOCK CAPACITY DECAL

FUNCTION: To show the capacity of the load block.

QUANTITY: 2

PLACEMENT: Each side of load block.

27007-03a

PATRUM LOAD BLOCK SPECIFICATIONS

RATED CAPACITY: WEIGHT: 3,200 lbs 24 lbs

WARNING:

1 PART LINE FOR LOADS LESS THAN 1,600 LBS. 2 PART LINE FOR LOADS 1,600 LBS. & GREATER 27007-04a

WEITURE LOAD BLOCK SPECIFICATIONS

RATED CAPACITY: WEIGHT: 24 lbs 3,500 lbs

WARNING:

1 PART LINE FOR LOADS LESS THAN 1,750 LBS. 2 PART LINE FOR LOADS 1,750 LBS. & GREATER

PART NO.: 17813

DECAL: OVERLOAD SENSING SYSTEM DECAL

FUNCTION: To advise operator of overload sensing system.

QUANTITY: 1

PLACEMENT: Location may vary.

NOTICE - WARRANTY VOID IF DISCONNECTED

PART NO.: 14459 (WITH OPTIONAL ALARM)

DECAL: OVERLOAD ALARM SYSTEM DECAL

FUNCTION: To advise operator of alarm system.

QUANTITY: 1

PLACEMENT: Location may vary.

HIS CRANE IS EQUIPPED WITH AN OVERLOAD ALARM SYSTEM OVERLOAD ALARM HORN SOUNDS IF RATED LOAD IS EXCEEDED AT ANY REACH. FALARM SOUNDS, RAISE BOOM OR LOWER WINCH TO REMOVE OVERLOAD.

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

PART NO.: 28065 (RIGHT) & 23184 (LEFT)

28065 DECAL: MANUAL OVERRIDE DECAL ET8/12KX(P)

FUNCTION: To show the manual override ports.

23184 QUANTITY: 1

PLACEMENT: Right & Left side of housing.

MANUAL OVERRIDE

MANUAL OVERRIDE 굾

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ADDITIONAL DECALS

DATE 01-03-24A SUPERSEDES

SECTION C150

ET8/12KX(P)

11-16-23

2854

PART NO.: 21576 (RIGHT) & 21577 (LEFT)

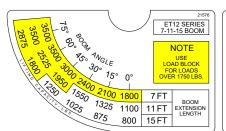
DECAL: CRANE CAPACITY

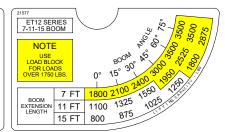
FUNCTION: To show the operator the operating

capacities of crane.

QUANTITY: 1 each

PLACEMENT: One on each side of boom.





PART NO.: 28550

DECAL: MODEL ET12KX-15'

FUNCTION: To show model of crane.

QUANTITY: 2

PLACEMENT: One on each side of boom.



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MANUFACTURING, INC. CINCINNATI, OHIO

MODEL/CAPCTY DECALS

11-15-23

SECTION C150

ET12-15' SERIES

SUPERSEDES 2855

SECTION 200

INSTALLATION



!! IMPORTANT!!

ADEQUATE WIRING IMPERATIVE FOR PROPER OPERATION

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

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE										
MODEL		TOTAL LENGTH OF CABLE (FT) * A 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 T12KX	#2	#2	#1	#0	#00	NOT R	ECOMN	MENDED	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.

_		TITLE	DATE	SECTION	١
	VENCO VENTURO INDUSTRIES LLC	CABLE & BATTERY	07-30-18X	C200	
	CINCINNATI, OHIO		SUPERSEDES	744405	1
		ELECTRIC CRANES	09-27-17W	<i>1</i> 11105 <i> </i>	

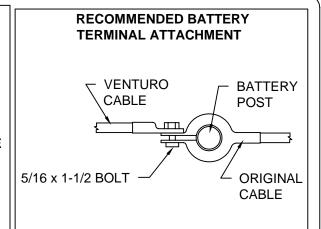
	RECOMMENDED CIRCUIT BREAKER TABLE						
	CRANE	DESCRIPTION	PART NO.				
	CT310KX	250 AMP, MAN RESET	22946-250				
	DT7	250 AMP, MAN RESET	22946-250				
	CE-1500-FB	150 AMP, MAN RESET	22946-150				
	CE6K	150 AMP, MAN RESET	22946-150				
	CT200X	250 AMP, MAN RESET	22946-250				
	ET6K	250 AMP, MAN RESET	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				
	·	·					

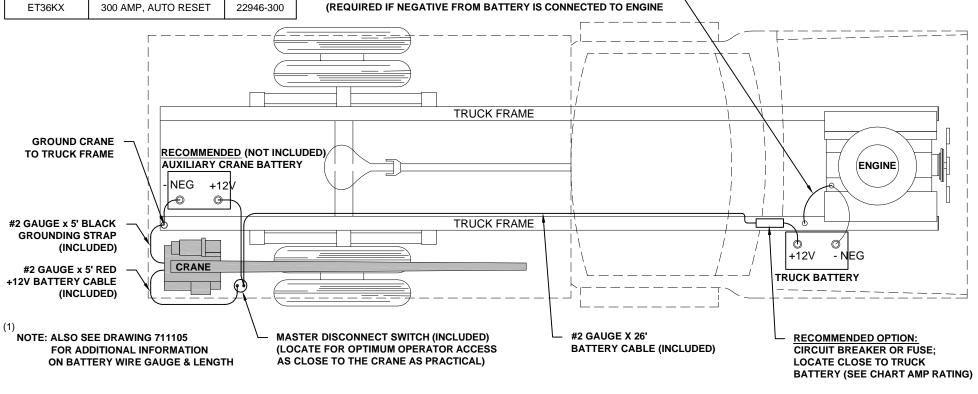
BATTERY REQUIREMENTS

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

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

INSTALL #2 GAUGE GROUND STRAP FROM ENGINE TO TRUCK FRAME







VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

III LE	DATE	SECTION
BATTERY CABLE & COMPONENT INSTALL	09-03-20M	C200
	SUPERSEDES	45000
ET CRANES	07-30-18L	15660

STABILITY TEST - ET12-15' 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

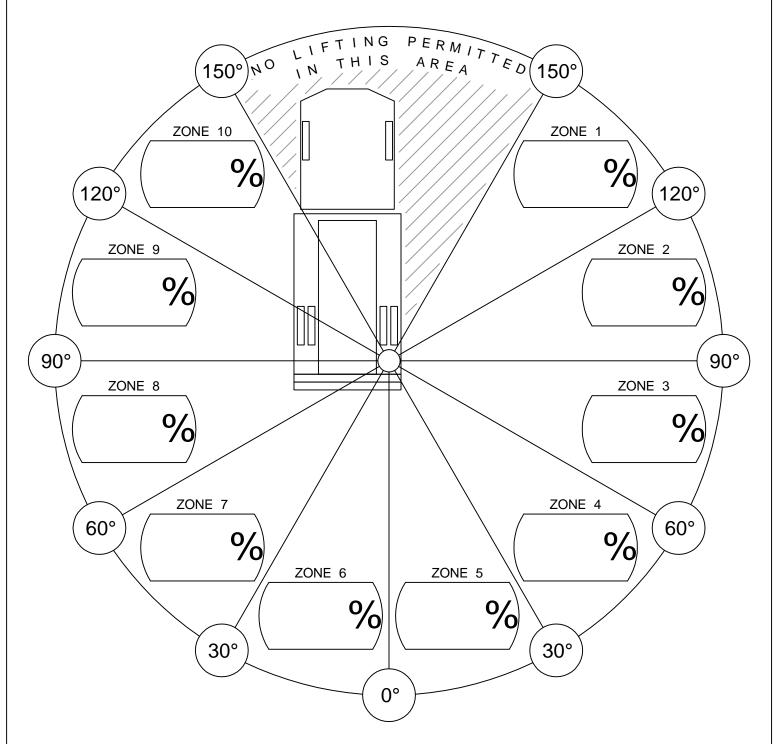
- 1. Locate the truck on firm, level ground and set parking brake.
- 2. Fully deploy stabilizers, making sure they are firmly in contact with supportive ground; use stabilizer pads as required. The tires of the truck should remain in full contact with the ground.
- 3. Inspect wire rope and other key 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 <u>941 lbs</u>, (includes load block weight of <u>24</u> lbs.) to a *maximum of 1000 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 contract 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"	
% Rated Capacity =		X 100
	184	

- 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.

® VENO	/ENCO VENTURO INDUSTRIES LLC	STABILITY TEST	03-16-23H	C200	
ENION	CINCINNATI, OHIO	ET12-15' SERIES	SUPERSEDES 11-23-21G	20906-12	

CRANE STABILITY



% of Rated Capacity for each of the 10 regions are provided above.

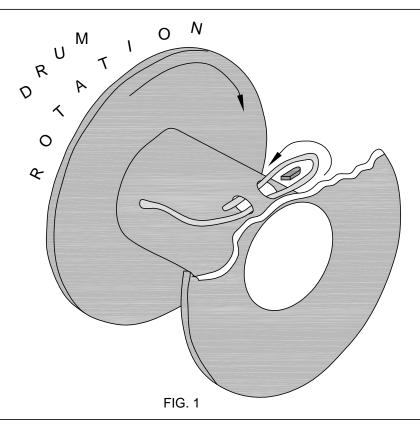
CONDITIONS:

 STABILIZERS FULLY EXTENDED & DOWN, ON FIRM LEVEL GROUND.



TITLE	DATE	SECTION
STABILITY CHART	05-11-17F	C200
	SUPERSEDES	00007
VENTURO CRANES	02-21-14E	20907

WIRE ROPE INSTALLATION



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.

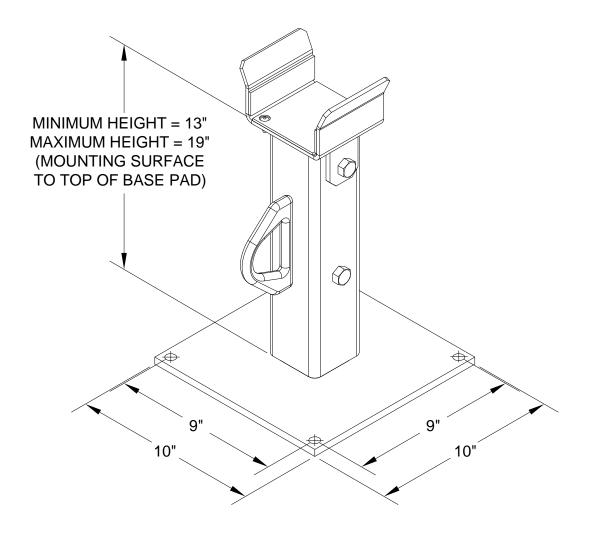
CAUTION

 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.

1		TITLE	DATE	SECTION	١
	VENCO VENTURO INDUSTRIES LLC	WIRE ROPE INSTALLTN	02-21-14K	C200	
	CINCINNATI, OHIO		SUPERSEDES	00045	ĺ
		ET6K & LARGER CRANES	12-26-13J	22245	

21440 ADJUSTABLE BOOM REST





21440 ADJUSTABLE BOOM REST	
ET6/8/12 SEDIES CDANES	

DATE

SUPERSEDES

12-26-13A

TITLE

SECTION 300

MAINTENANCE & SERVICE



CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

SAFETY

Before operating this crane, read and understand these instructions, the "CRANE SAFETY AND HAZARDS" pages, and review all safety and instruction labels on the crane.

CRANE INSPECTION

Before operating this crane, inspect for wear, damage, and oil leakage. After the wire rope has been run out, check for wear, kinks, and broken strands. Check the hook and safety latch for damage. Correct problems before using the crane.

CAPACITY

Before operating this crane, review the capacity charts on the sides of the boom to relate the load to be lifted to the boom length and angle. The boom angle is indicated by a gravity arrow.

LOAD BLOCK

If the load exceeds:

1000 lbs. for the ET6K, or

1600 lbs. for the ET8 Series and ET10K(X), or

1750 lbs. for the ET12 Series,

or if reduced winching speed for better control of smaller loads is required, use the load block to rig the crane for two-part line operation. Refer to your crane's "MAXIMUM LOAD CAPACITY" page within this manual.

CONTROLS

This crane is operated by a remote control pendant. The pendant should be unplugged and stored in a compartment or the cab when the crane is not in use.

Before plugging the pendant in, inspect the plug, socket, cord, pendant head, and switches for damage. Actuate all switches in both directions to verify that they all have the same feel and sound, and that they return to the center position.

Plug the pendant into the socket on the right side of the crane and, if applicable, snap the strain relief tether to the crane housing.

Turn on the Master Disconnect Switch. Use "WINCH DOWN" to release tension on the wire rope and unhook it from the storage tie-down position.

Use "BOOM UP" to elevate the boom from the boom rest position.

Check all control functions to see that they are working correctly.



CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

CONTROL FUNCTIONS

WINCH UP and WINCH DOWN - Raises and lowers the load with the wire rope.

<u>POWER EXTENSION</u> - "Up" raises the boom elevation by operating the valves and the electric hydraulic power unit. "DOWN" operates a solenoid release valve mounted on the cylinder to lower the load and/or boom by gravity at a controlled rate. A check valve on the cylinder prevents the boom from coming down if a hose breaks. A flow control valve controls the lowering rate.

<u>POWER ROTATION</u> - "L" and "R" control the direction of rotation. The ET6K, ET8K(X), ET10K(X) or ET12K(X) can be rotated continuously thru 360° or more. There are no restrictions on the number of rotations in any direction.

<u>CONTROL PRIORITY SYSTEM</u> (NON-PROPORTIONAL SYSTEMS) - As a built in safety feature, the operator can perform only one major and one minor function at any one time. Major functions include rotation, winching up of a load, and elevating, extending, and retracting the boom. Minor functions include winching down and lowering the boom.

- a. "WINCH UP" has priority over "BOOM UP", "BOOM OUT", "BOOM IN", and "ROTATION."
- b. "BOOM UP" has priority over "BOOM OUT", "BOOM IN", and "ROTATION."
- c. "BOOM OUT" and "BOOM IN" have priority over "ROTATION."
- d. "BOOM DOWN" and "WINCH DOWN" can be operated with any function.
- ▲ TRIGGER (ET12KXP Only) Varies the flow rate delivered to the crane valve. The farther the trigger is pulled, the faster the selected crane function operates.

OVERLOAD SENSING SYSTEM

This crane is equipped with an Overload Sensing System. If the capacity of the crane is exceeded, the "Winch Up", "Boom Down", and "Boom Out" functions will be shut down. The "Winch Down", "Boom Up", and "Boom In" functions will continue to operate and can be used to relieve the overload condition. The "Rotation" function also will continue to operate.

TWO-BLOCK SENSING SYSTEM

This crane is equipped with an anti two-block device that is mounted at the tip of the boom. If the load block / overhaul weight contacts the device the "Winch Up", "Boom Down", and "Boom Out" functions are disabled. The "Winch Down",

▲ "Boom Up", and "Boom In" functions will continue to operate and can be used to relieve the two-block condition.

CRANE OPERATION

Avoid rapid reversal of the winch and rotation control switches. The high inrush current to the motors during reversal can reduce the life of the contactors, motor brushes, and commutators.

When operating "WINCH UP", "BOOM DOWN", or "BOOM OUT," always maintain clearance between the boom head and the load block or hook.

Do not lift or drag a load sideways using any of the crane funcitons. The boom has much lower bending strength sideways than in a vertical direction.



CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

OVERLOAD ALARM SYSTEMS (OPTIONAL)

This crane may be equipped with an optional overload alarm system.

- 1. Overload alarm horn sounds if rated load is exceeded at any reach.
- 2. If alarm sounds, RAISE boom or LOWER winch to remove overload.
- 3. Always RAISE boom slightly before lifting load warning system INOPERATIVE when cylinder is completely bottomed.
- 4. Alarm can be tested by raising boom against up limit stop.

MANUAL TELESCOPIC BOOM

The 6'-14' and 7'- 15' booms have a 4' manual telescoping section in addition to the 4' power extension. A toggle pin locks the boom into either the extended or retracted position.

TRUCK SETUP & STABILIZERS

- 1. The truck should be parked on firm level ground when using the crane.
- 2. The center of the crane should be positioned close enough to the job so that it can be operated at a reach that puts the load within the rated capacity of the crane.
- 3. Set the vehicle parking brake and put the vehicle transmission in "park" (automatic transmission) or low gear (manual transmission), unless the engine is to be left running.
- 4. Deploy the stabilizers to stabilize the vehicle against rocking or overturning when lifting with the crane.

PREPARATION FOR TRAVEL

1. Return the stabilizers to the stowed position. Install and secure all pins.

MANUFACTURING, INC. CINCINNATI, OHIO

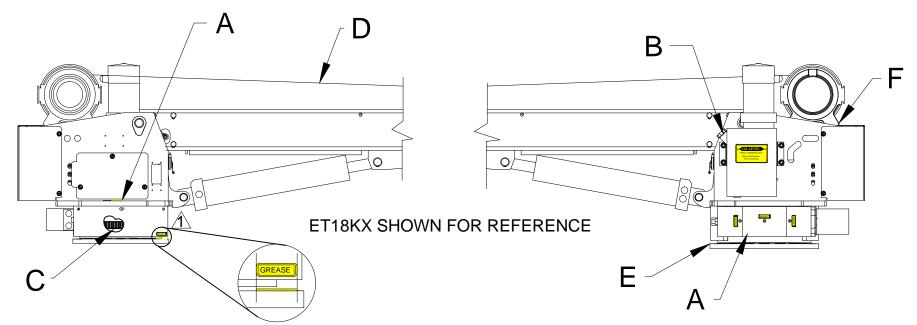
- 2. Stow the crane boom in the boom support.
- 3. Hook the winch line to a tie down point on the body or pedestal and apply tension.
- 4. TURN OFF MASTER DISCONNECT SWITCH.
- 5. Unplug the control pendant and store in a body compartment or the cab.



 The pendant (or receiver) plug must be unplugged from the crane socket and the Master Disconnect Switch (power) turned "OFF" when the crane is not in use! Leaving the pendant (or receiver) connected and power on when not in use may result in dangerous, unintentional activation of the crane functions.



ET6/8/10/12 SERIES	12-26-13E	900530C
INSTALLATION DWG	03-08-19F	C200
TITLE	DATE	SECTION



ATTENTION:

NEVER WASH THIS CRANE WITH CHEMICAL PRODUCTS OR HIGH PRESSURE WATER JETS, AS THEY CAN CAUSE DETACHMENT OF DECALS OR ENTRANCE OF WATER INTO ELECTRICAL OR SLEWING RING COMPONENTS

Location	Service Required	No	Service Interval	
Α	Grease fitting With Pressure Grease Gun	Use FUCHS Renolit Aluminum	Complex Grease, or equivalent	Time of Truck Service
		ALIGNMENT: To alig grease decals on lower	n hole w/ fitting, line up r cover and base gusset.	
В	Fill Oil Reservoir to Oil Level with Boom Down and Boom In.	Use Dextron ATF for Ambient Temperatures Between -22° F and 30° F	Use ISO Viscosity Grade 68 or Equivalent for Ambient Temperatures Between 10°F and 125°F	Time of Truck Service and as required by changes in the ambient temperature range
С	Lubricate Gear Teeth	Remove Cover & Use Chassis Grease		Time of Truck Service
D	Check Wire Rope and Hook	Rope should be free of kinks and fraying		Time of Truck Service
E	Check Torque of Base Mounting Bolts	Square Base: Torqued to 200 ft-lbs		Time of Truck Service
-	Check Torque of Base Mounting Bolts	Rectangular Base: Torqued to 455 ft-lbs		Time of Truck Service
F	Check Torque of Winch Mounting Bolts	Bolts should be torqued to 35 ft-lbs*		Time of Truck Service

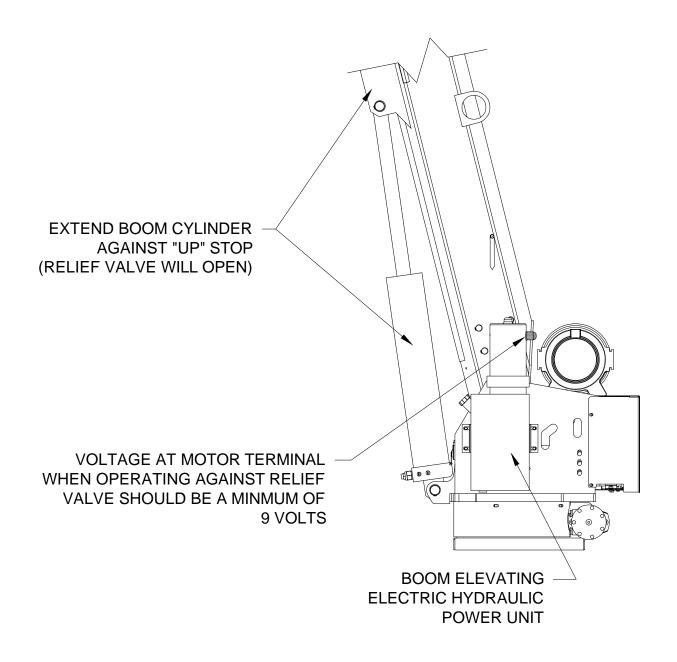
^{* 32} FT-LBS. FOR ET8/12 WITH GTD-2200 COMEUP WINCH. SEE PAGE 21741 FOR WINCH IDENTIFICATION.



ET8/12/16/18 SERIES CRANES	SUPERSEDES 01-30-23K	21306
LUBRICATION & MAINTENACE CHART	03-06-23L	C300

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





TITLE	DATE	SECTION
MINIMUM VOLTAGE TEST	12-26-13G	C300
ET SERIES CRANES	supersedes 10-05-09F	19963

WIRE ROPE ASSEMBLY

LOAD BLOCK ASSEMBLY

ET6K WIRE ROPE:

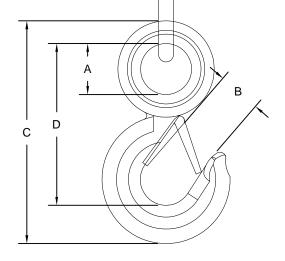
3/16" DIA, 50' LONG

GAC 7X19 LHRL-IWRC, SB 4200 LBS

▲ ET8/12 SERIES WIRE ROPE:

1/4" DIA, 65' LONG

GAC 7X19 IPS-LHRL-IWRC, SB 7000 LBS

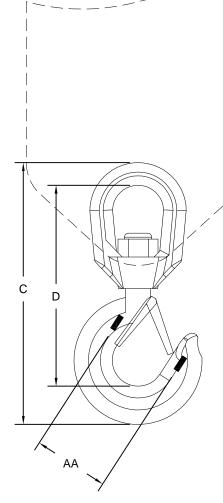


WIRE ROPE HOOK:

RATING: 1 TONNE (2205 LBS)

DIMENSIONS:

Α	В	С	D	
0.88"	1.06"	4.88"	3.63"	



ET6K LOAD BLOCK HOOK:

RATING: 1.5 TONNE (3307 LBS)

DIMENSIONS:

COLOR	BRAND	AA	С	D
GOLD	CROSBY	2.00"	7.75"	6.12"

▲ ET8/12 SERIES LOAD BLOCK HOOK:

RATING: 2 TONNE (4410 LBS)

DIMENSIONS:

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI OHIO

WIRE ROPE & HOOKS SPECIFICATIONS

O3-08-19G
C300

ET6/8/12 SERIES CRANES

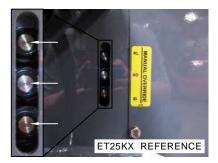
DATE
03-08-19G
C300

SUPERSEDES
05-09-16F
23225

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).

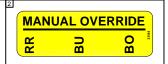


Rot. Right RL Rot. Left RR Boom Up BU BD Boom Down

3-STATION FUNCTIONS include previous functions, plus:

Boom In ВО **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!!



End Plate

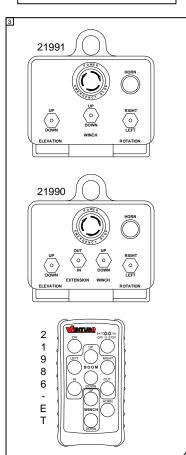
PORT

COIL

SHAFT

Procedure:

- Turn Master disconnect switch to "ON"
- 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
- Using a tool with a diameter of 1/8" or smaller, press the shaft inward and hold 4.
- 5. Reference the functions listed on your pendant or radio (see figure 3)
- Press the switch or button for the same function
- 7. If you need to change function,
 - Release switch or button 7.1.
 - Remove tool from shaft 7.2.
 - 7.3. Go to step 3



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

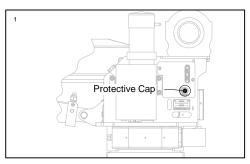
CINCINNATI, OHIO

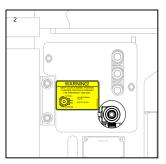


DATE SECTION C200 MAN. OVERRIDE INSTR. 03-08-19A SUPERSEDES 23084 ET NON-PROP CRANES 02-09-17

MANUAL OVERRIDE INSTRUCTIONS ET PROPRTIONAL SERIES CRANES

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

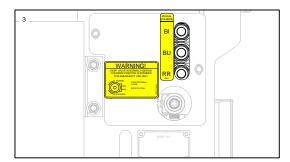


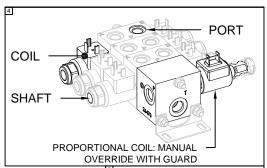


Each valve station incorporates [2] hydraulic ports and [2] coils. Manual override shafts are located in the center of the coils (see figure 4). Manual override decals are placed on each crane near the valve assembly. These decals provide a visual aid that helps the operator determine the function designations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

3-STATION FUNCTIONS:

RR = Rot. Right RL = Rot. Left BU = Boom Up BD = Boom DownBI = 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:

- 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
- 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

21988

UP OUT UP RIGHT
OOWN EXTENSION WINCH ROTATION

BATT POWER

UP OUT UP RIGHT
OOWN LEFT
DOWN IN DOWN LEFT
BOOM HORN WINCH ROTATE

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



MAN. OVERRIDE INSTR.

TITLE

03-08-19A

C200

ET PROPORTIONAL CRANES

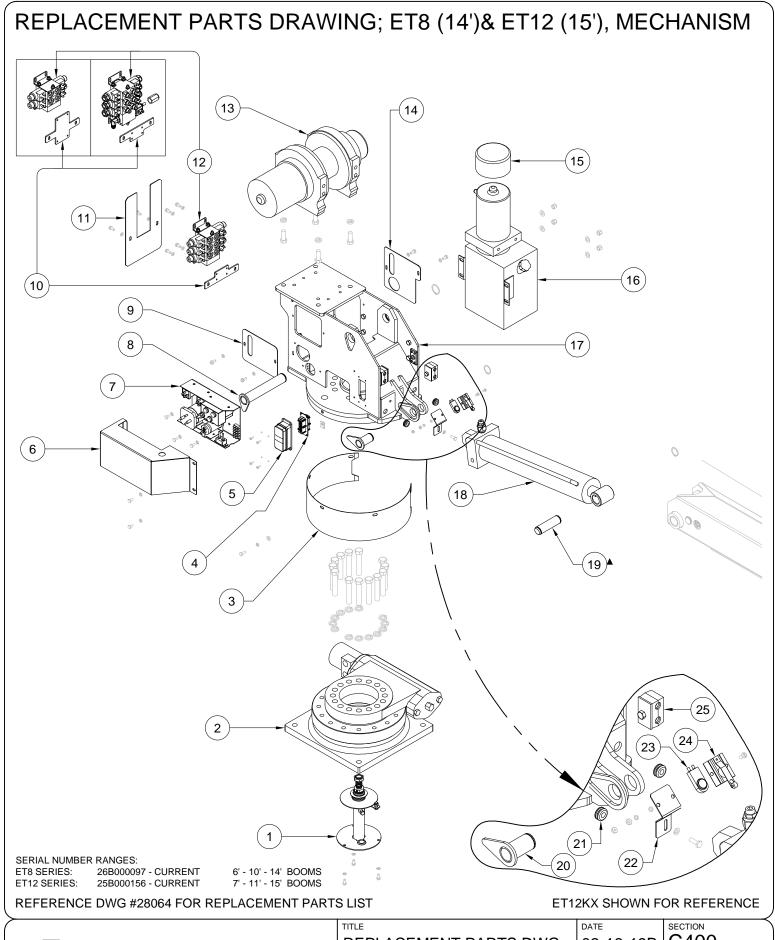
SUPERSEDES 07-30-18

23775

SECTION 400

REPLACEMENT PARTS







VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO REPLACEMENT PARTS DWG

03-18-19B

C400

ET8 (14') & ET12 (15') SERIES

03-08-19A

28063

REPLACEMENT PARTS LIST; ET8 (14') & ET12 (15') SERIES - MECHANISM

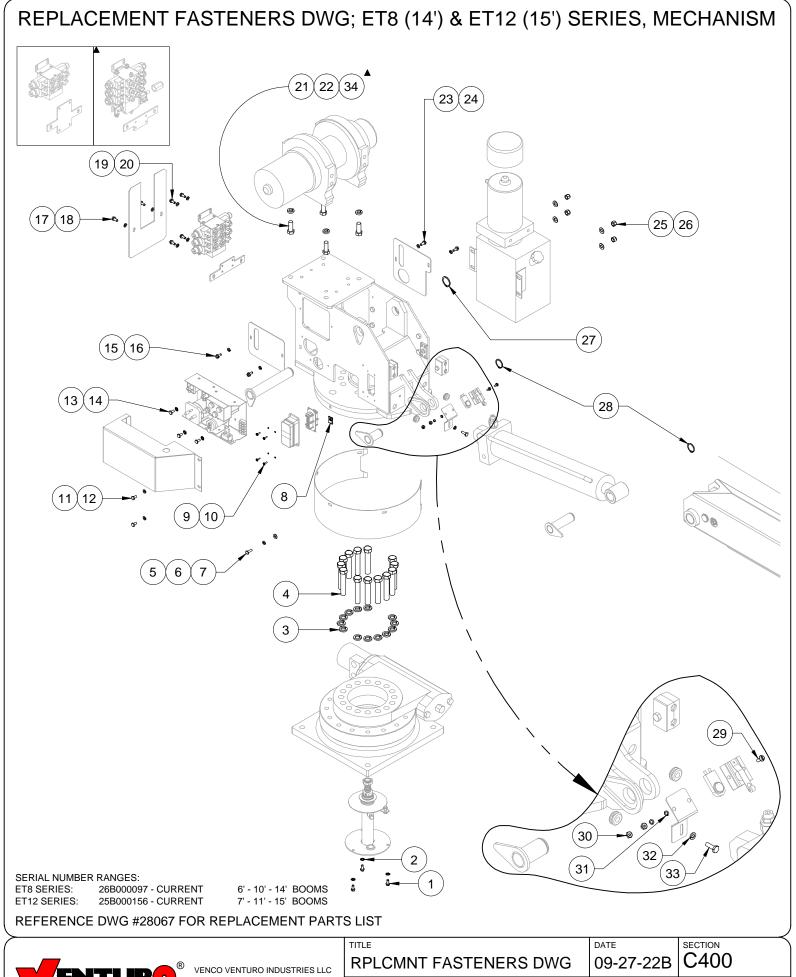
NON - PROPORTIONAL PROPORTIONAL

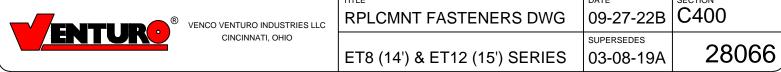
NON - PROPORTIONAL PROPORTIONAL								
	ITEM	ET8K QTY	ET8KX QTY	ET12KX QTY	ET8KX QTY	E12KX QTY	PART NO.	DESCRIPTION
	1	1	1	1	1	1	16780-2P8	SLIP RING; 2-POLE, SWIVEL ASSY
•	0*	4	4	4	4	4	21735	SLEW DRIVE; SQUARE BASE
^	2*	1	1	1	1	1	21735-1	SLEW DRIVE; RECTANGULAR BASE
	3	1	1	1	1	1	21185	ROTATION GEAR GUARD
	4	1	1	1	1	1	22482	FEMALE INSERT; 16 + 1 POLE
	5	1	1	1	1	1	22481	SOCKET CASE W/ HOOD
	6	1	1	1	1	1	MB21621	ELECTRICAL ENCLOSURE W/ INSULATOR
	7	1	1	1	1	1	21515	ASSY; ELECTRICAL COMPONENT PANEL
	8	1	1	1	1	1	21540	PIVOT PIN; PRIMARY BOOM, MAIN
	9	1	1	1	1	1	28113	COVER PLATE; RIGHT SIDE
	40	-	1	1	1	1	28110	ADAPTER PLATE; HYD. CONTROL VALVE (ET8/12KX)
	10	1	-	-	-	-	28110-1	ADAPTER PLATE; HYD. CONTROL VALVE (ET8K ONLY)
	11	1	1	1	1	1	28112	COVER PLATE; REAR
		-	1	1	-	-	21614	ASSY; VALVE BLOCK, 3-SPOOL, NON-PROP (ET8/12KX ONLY)
	12	1	-	-	-	-	21615	ASSY; VALVE BLOCK, 2-SPOOL, NON-PROP (ET8K ONLY)
		-	-	-	1	1	26479	ASSY; VALVE BLOCK, 3-SPOOL, PROPORTIONAL
	13	1	1	1	1	1	21556	WINCH; DC1600
	14	1	1	1	1	1	28114	COVER PLATE; LEFT SIDE
	15	1	1	1	1	1	16143-3	MOTOR COVER; 2 HOLES
	16	1	1	1	1	1	20873	HYDRAULIC POWER UNIT; 2600 PSI
	17	1	1	1	1	1	28122	WELDED ASSY; UNIVERSAL UPPER HSNG
	10	-	-	1	-	1	23059	ASSY; ELEV. CYL., COMPOSITE BRNGS (ET12 SERIES)
	18	1	1	-	1	-	21788	ASSY; ELEV. CYL., COMPOSITE BRNGS (ET8 SERIES)
	19	1	1	1	1	1	21547	PIN; ELEVATION CYL., OUTBOARD
	20	1	1	1	1	1	23703	WELDMENT; ELEVATION CYL. PIN, INBOARD
	21	2	2	2	2	2	14883	GROMMET; 3/8" ID, 5/8" OD, 3/16" GROOVE
	22	1	1	1	1	1	21545	BRACKET; BOOM SHUT-OFF SWITCH
	23	1	1	1	1	1	19918	SWITCH; TOP POSITION
	24	1	1	1	1	1	19917	BRACKET; TOP POSITION SWITCH
	25	2	2	2	2	2	21612	ASSY; HOSE CLAMP
	26	1	1	1	1	1	23700	BOOM FINAL ASSY; ET12KXP 9.5' - 16'
	27	1	1	1	1	1	20670	ASSY; SWIVEL LOAD BLOCK, 3500 LBS.
	* FITHER 24725 OR 2475 4 DEDENDING ON CONFIGURATION							

^{*} EITHER 21735 OR 2175-1 DEPENDING ON CONFIGURATION ITEMS 26 & 27 NOT SHOWN ON DRAWING

REFERENCE DWG #28063 FOR REPLACEMENT PARTS DWG







REPLACEMENT FASTENER LIST; ET8 (14') & ET12 (15') SERIES, MECHANISM

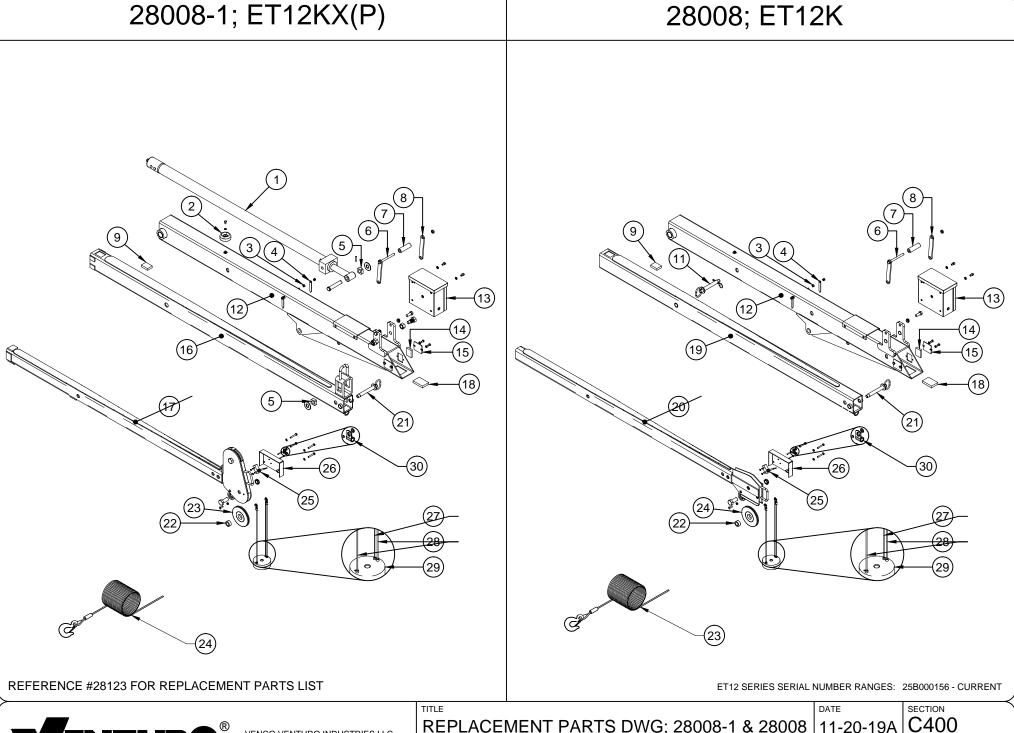
_					
	ITEM#	PART#	DESCRIPTION	QTY	INSTALLATION / LOCATION
	1	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8 S/S	3	CANDLESTICK TO CRANE BASE
	2	!LWSH-025-STAR-SS	LOCK WASHER; 1/4", EXTERNAL STAR, S/S	3	CANDLESTICK TO CRANE BASE
	3	!LWSH-063	LOCK WASHER; 5/8", GR. 5, ZINC	13	HOUSING TO SLEW RING
	4	!HHCS06311350	HEX HEAD CAP SCREW; 5/8-11 x 3-1/2, GR. 5, ZINC	13	HSNG TO SLEW RING (TORGUE 160 LBS.)
	5	!HHCS02520075S	HEX HEAD CAP SCREW; 1/4-20 X 3/4, S/S	5	ROTATION GEAR GUARD TO HOUSING
	6	!LWSH-025S	LOCK WASHER; 1/4", S/S	5	ROTATION GEAR GUARD TO HOUSING
	7	!FWSH-025S	FLAT WASHER; 1/4", S/S	5	ROTATION GEAR GUARD TO HOUSING
	8	!UNUT-02520-LKG	U-NUT; 1/4-20, LOCKING	5	LOWER GUARD MOUNTING RING (HSNG)
	9	!SHPMS#0832050S	SLOT-HEAD PAN MACHINE SCREW; #8-32 X 1/2, S/S	4	SOCKET CASE W/ HOOD TO HOUSING
	10	!LWSH-#08S	LOCK WASHER; #08, S/S	4	SOCKET CASE W/ HOOD TO HOUSING
	11	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	2	ELECTRIC PANEL COVER TO HOUSING
	12	!LWSH-025S	LOCK WASHER; 1/4, S/S	2	ELECTRIC PANEL COVER TO HOUSING
	13	!HHCS02520063	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	3	ELECTRICAL COMPONENT PANEL TO HSNG
	14	!LWSH-025-STAR	LOCK WASHER; 1/4, EXTERNAL STAR	3	ELECTRICAL COMPONENT PANEL TO HSNG
	15	!HHCS02520050S	HEX HEAD CAP SCREW; 1/4-20 X 1/2, S/S	2	RIGHT SIDE COVER PLATE TO HOUSING
	16	!LWSH-025-S	LOCK WASHER; 1/4, S/S	2	RIGHT SIDE COVER PLATE TO HOUSING
	17	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	2	REAR COVER & ADAPTER PLATE TO HOUSING
	18	!LWSH-025-S	LOCK WASHER; 1/4, S/S	2	REAR COVER & ADAPER PLATE TO HOUSING
	19	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8, S/S	4	VALVE BLOCK TO ADAPTER PLATE & HSNG
	20	!LWSH-025-S	LOCK WASHER; 1/4, S/S	4	VALVE BLOCK TO ADAPTER PLATE & HSNG
	21°	25922	SHCS; M12-175 X 35MM, GR. 12.9	4	WARN WINCH TO HOUSING
	21*	25920	SHCS; M10-150 X 50MM, GR. 12.9	6	COMEUP WINCH TO HOUSING
, [22°	!LWSH-M12-8.8	LOCK WASHER; M12, GRADE 8.8	4	WARN WINCH TO HOUSING
	22*	!LWSH-M10-18.1MM-OD	LOCK WASHER; M10, 18.1MM OD	6	COMEUP WINCH TO HOUSING
	23	!HHCS02520063S	HEX HEAD CA SCREW; 1/4-20 X 5/8, S/S	2	LEFT SIDE COVER PLATE TO HOUSING
	24	!LWSH-025-S	LOCK WASHER; 1/4, S/S	2	LEFT SIDE COVER PLATE TO HOUSING
	25	!LNUT-03816	LOCK NUT; 3/8-16, NYLON INSERT	4	HYDRAULIC POWER UNIT TO HOUSING
	26	!FWSH-038SAE	FLAT WASHER; 3/8 SAE, ZINC PLATED	4	HYDRAULIC POWER UNIT TO HOUSING
	27	!SRNG-125	SNAP RING; 1-1/4, PLATED	1	MAIN BOOM PIVOT PIN
	28	!SRNG-113	SNAP RING; 1-1/8, PLATED	2	ELEVATION CYLINDER PIVOT PINS
	29	!PHPMS#1024050S	PHILLIPS HEAD PAN MACH. SCREW; 10-24 X 1/2, S/S	2	TOP POS. BRCKT TO BOOM SHUT-OFF BRCKT
	30	!LWSH-#10S	LOCK WASHER; #10, S/S	2	TOP POS. BRCKT TO BOOM SHUT-OFF BRCKT
	31	!HNUT-#1024S	HEX NUT; #10-24, S/S	2	TOP POS. BRCKT TO BOOM SHUT-OFF BRCKT
	32	!LWSH-025-S	LOCK WASHER; 1/4, S/S	1	BOOM SHUT-OFF SWITCH BRACKET TO HSNG
	33	!HHCS02520075S	HEX HEAD CAP SCREW; 1/4-20 X 3/4, S/S	1	BOOM SHUT-OFF SWITCH BRACKET TO HSNG
	34°	!FWSH-M12	FLAT WASHER; M12	4	WARN WINCH TO HOUSING
-	34*	!FWSH-M10-18MM-OD	FLAT WASHER; M10, 18MM OD	6	COMEUP WINCH TO HOUSING
-					

^{° =} WARN DC2500 WINCH MOUNTING

REFERENCE DWG #28066 FOR REPLACEMENT FASTENER DRAWING



^{* =} COMEUP GTD-2800 WINCH MOUNTING



REPLACEMENT PARTS DWG; 28008-1 & 28008

SUPERSEDES

ET12 GEN. 'C' SERIES, 7'-11'-15' BOOMS

03-14-19

28123

	REF	PLACEMENT PARTS LIS	ST; 28008-1, ET12KX(P)
ITEM#	QTY	PART#	DESCRIPTION
1	1	21754	EXTENSION CYLINDER
2	1	20285	BUMPER; BOOM
3	2	22490	SPACER; BOOM ARROW
4	2	13459-1	ARROW; 3.19" LONG
5	2	21734	BEARING; UHMW, EXTENSION PIN
6	1	27089	WELDED ASSY; WIRE ROPE GUIDE
7	1	27088	ROLLER; UHMW, WIRE ROPE GUIDE
8	1	21936	FLAT MOUNT; WIRE ROPE GUIDE
9	1	21538	BEARING; UHMW, BOOM, 2 X 1.5 X 0.5
10	-	-	-
11	-	-	-
12	1	28010-1	WELDED ASSY; PRIMARY BOOM
13	1	22683	ASSY; CORD REEL, LEFT
14	2	21209	BEARING; UHMW, BOOM, 2 X 1.5 X 0.44
15	2	21528	BEARING CAP
16	1	28016	WELDED ASSY; SECONDARY BOOM
17	1	21534	WELDED ASSY; TERTIARY BOOM
18	1	21208	BEARING; UHMW, BOOM, 3 X 2 X 0.5
19	-	-	-
20	-	-	-
21	1	23042-B-14-14	ASSY; PIN / LANYARD
22	2	20536	SPACER; SHEAVE
23	2	21630	SHEAVE W/ BUSHING
24	1	21639	WIRE ROPE; 1/4 X 65 FT W/ EYEHOOK
25	1	19376	SWITCH; ANTI-2-BLOCK
26	1	21291	HOUSING; ANTI-2-BLOCK
27	1	20929	CABLE HANGER; ANTI-TWO BLOCK
28	2	20951-1	CABLE HANGER; 16 ½" LG
29	1	20950	WEIGHT; ANTI-TWO BLOCK
30 REFERENCE #2	1 28123 F0	19269 OR REPLACEMEN	CLAMP; 1/4" T PARTS DRAWING

	F	REPLACEMENT PARTS	LIST; 28008, ET12K
ITEM#	QTY	PART#	DESCRIPTION
1	-	-	-
2	-	-	-
3	2	22490	SPACER; BOOM ARROW
4	2	13459-1	ARROW; 3.19" LONG
5	-	-	-
6	1	27089	WELDED ASSY; WIRE ROPE GUIDE
7	1	27088	ROLLER; UHMW, WIRE ROPE GUIDE
8	1	21936	FLAT MOUNT; WIRE ROPE GUIDE
9	1	21538	BEARING; UHMW, BOOM, 2 X 1.5 X 0.5
10	-	-	-
11	1	23042-B-34-34	ASSY; PIN / LANYARD
12	1	28010	WELDED ASSY; PRIMARY BOOM
13	1	22683	ASSY; CORD REEL, LEFT
14	2	21209	BEARING; UHMW, BOOM, 2 X 1.5 X 0.44
15	2	21528	BEARING CAP
16	-	-	-
17	-	-	-
18	1	21208	BEARING; UHMW, BOOM, 3 X 2 X 0.5
19	1	21550	WELDED ASSY; SECONDARY BOOM
20	1	21551	WELDE ASSY; TERTIARY BOOM
21	1	23042-B-14-14	ASSY; PIN / LANYARD
22	1	20536	SPACER; SHEAVE
23	1	21639	WIRE ROPE; 1/4 X 65 FT W/ EYEHOOK
24	1	20537	SHEAVE W/ BUSHING
25	1	19376	SWITCH; ANTI-2-BLOCK
26	1	21291	HOUSING; ANTI-2-BLOCK
27	1	20929	CABLE HANGER; ANTI-TWO BLOCK
28	2	20951-1	CABLE HANGER; 16 ½" LG
29	1	20950	WEIGHT; ANTI-TWO BLOCK
30	1	19269	CLAMP; 1/4"
	•	ET12 SERIES S	ERIAL NUMBER RANGES: 25B000156 - CURRENT



VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

REPLACEMENT PARTS LIST - 28008-1 & 28008

11-20-19A C400 SUPERSEDES

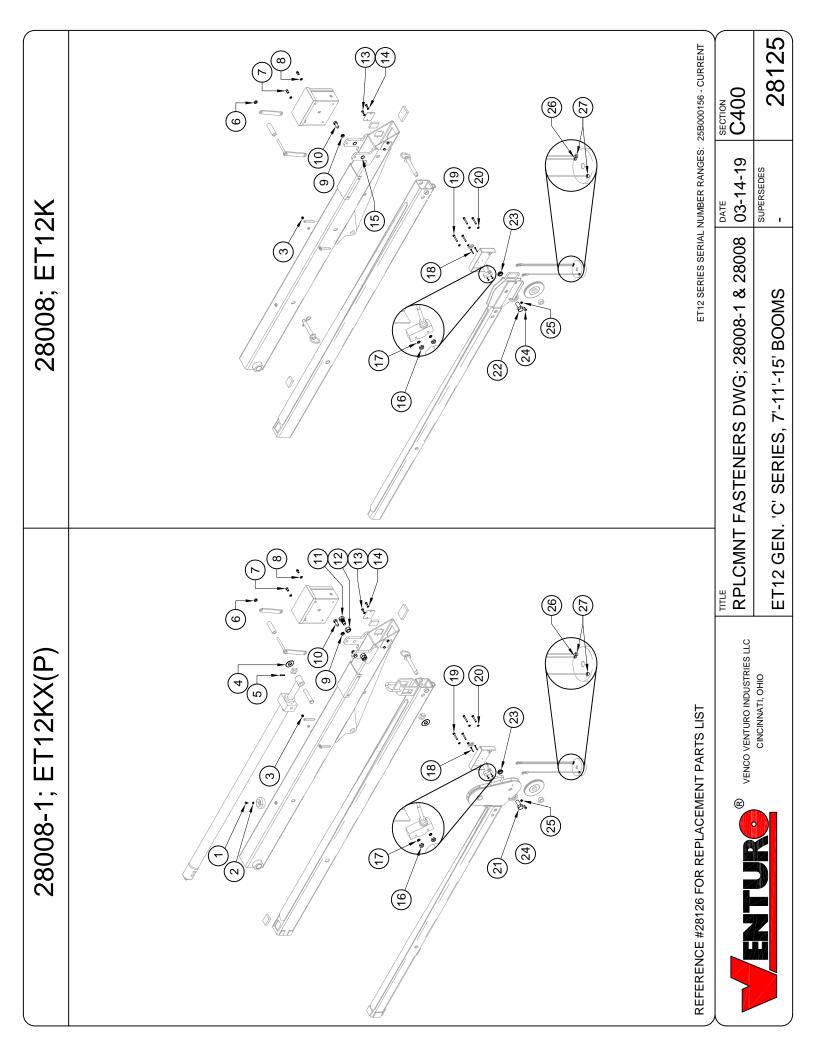
DATE

SECTION

ET12 GEN. 'C' SERIES, 7' - 11' - 15' BOOMS

03-14-19

28124



		REPLACEMENT FAS	REPLACEMENT FASTENERS LIST: 28008-1: ET12KX(P)			RFP
ITEM #	QTY	PART#	DESCRIPTION	ITEM #	ΔT	. 4
-	_	!HHCS02520063S	HEX HEAD CAP SCREW; 1/4-20 X 5/8", S/S	-	.	
2	1	iFWSH-025S	FLAT WASHER; 1/4", S/S	2		
က	2	!ANUT-02520S	ACORN NUT; 1/4-20, S/S	က	2	IANU
4	2	iFWSH-075S	FLAT WASHER; 3/4", S/S	4		
2	1	!RPIN-016150	ROLL PIN; 5/32 X 1-1/2"	5		
9	1	!JNUT-04414N	JAM NUT; 7/16-14, NYLON	9	_	-DNC:
7	2	ISHCS03118050-SS	SOCKET HEAD CAP SCREW; 5/16-18 X 1/2", S/S	7	2	iSHCS0
80	2	!LWSH-031S	LOCK WASHER; 5/16", S/S	∞	2	iLWS
6	2	JNUT-05013N	JAM NUT; 1/2-13, NYLON	o	2	-DNC:
10	2	!HHCS05013125	HEX HEAD CAP SCREW; 1/2-13 X 1-1/4", ZINC	10	2	SJHH:
11	2	17487	ECCENTRIC PIVOT BOLT; 3/4-16	11		
12	2	:HNUT-07516S	HEX NUT; 3/4-16, S/S	12		
13	4	!HHCS02520050S	HEX HEAD CAP SCREW; 1/4-20 X 1/2", S/S	13	4	:HHCS
14	4	iLWSH-025S	LOCK WASHER; 1/4", S/S	41	4	iLW8
15	-	ı		15	4	
16	2	:HNUT-#0632S	HEX NUT; #06-32, S/S	16	2	.ONHi
17	2	S90#-HSMTi	LOCK WASHER; #06, S/S	17	2	iLW8
18	2	!PHMS#0632125	PHILIPS HEAD MACHINE SCREW; #06-32 X 1-1/4"	18	2	SMHdi
19	4	!HHCS02520175S	HEX HEAD CAP SCREW; 1/4-20 X 1-3/4", S/S	19	4	HHCS
20	4	iLWSH-025S	LOCK WASHER; 1/4", S/S	20	4	irws
21	2	17059-4	SHEAVE AXLE; HHCS07510169, SPCL SHLDR, S/S	21	-	
22	•	-		22	1	17
23	2	N01570-TUNL!	JAM NUT; 3/4-10, NYLON	23	2	-UNC:
24	1	!HHCS02520075S	HEX HEAD CAP SCREW; 1/4-20 X 3/4", S/S	24	1	HHCS
25	1	S970-LUNHi	HEX NUT; 1/4", S/S	25	1	NH:
26	2	19302	SET COLLAR; 3/32" DIA.	26	2	
27	2	20952	AFT COLLAB. 5/32" DIA	27	C	

REPLACEMENT FASTENERS LIST; 28008, ET12K	DESCRIPTION			S/			NOT	SOCKET HEAD CAP SCREW; 5/16-18 X 1/2", S/S	S/S	NO	W; 1/2-13 X 1-1/4", ZINC			W; 1/4-20 X 1/2", S/S	8/8			S/S	PHILIPS HEAD MACHINE SCREW; #06-32 X 1-1/4"	W; 1/4-20 X 1-3/4", S/S	S/S		SHEAVE AXLE; HHCS07510200,1" SPCL SHLDR, S/S	NC	W; 1/4-20 X 3/4", S/S			A .
DESC .		ī		ACORN NUT; 1/4-20, S/S			JAM NUT; 7/16-14, NYLON	SOCKET HEAD CAP SCR	LOCK WASHER; 5/16", S/S	JAM NUT; 1/2-13, NYLON	HEX HEAD CAP SCREW; 1/2-13 X 1-1/4", ZINC	-	1	HEX HEAD CAP SCREW; 1/4-20 X 1/2", S/S	LOCK WASHER; 1/4", S/S	PLUG; 11/16" HOLE	HEX NUT; #06-32, S/S	LOCK WASHER; #06, S/S	PHILIPS HEAD MACHINE	HEX HEAD CAP SCREW; 1/4-20 X 1-3/4", S/S	LOCK WASHER; 1/4", S/S	-	SHEAVE AXLE; HHCS078	JAM NUT; 3/4-10, NYLON	HEX HEAD CAP SCREW; 1/4-20 X 3/4", S/S	HEX NUT; 1/4", S/S	SET COLLAR; 3/32" DIA.	
	PART#	1	,	!ANUT-02520S	,	,	!JNUT-04414N	ISHCS03118050-SS	ILWSH-031S	UNUT-05013N	!HHCS05013125	-	,	S05002520050HHi	iLWSH-025S	28019	SZE90#-LNNHi	S90#-HSM7i	!PHMS#0632125	!HHCS02520175S	!LWSH-025S	-	17059-6	13NUT-07510N	S520025200758	S420-TUNH!	19302	
	QTY	-		2	-		1	2	2	2	2	-		4	4	4	2	2	2	4	4	-	1	2	1	1	2	
	ITEM#	1	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	

REFERENCE #28125 FOR REPLACEMENT FASTENERS DRAWING

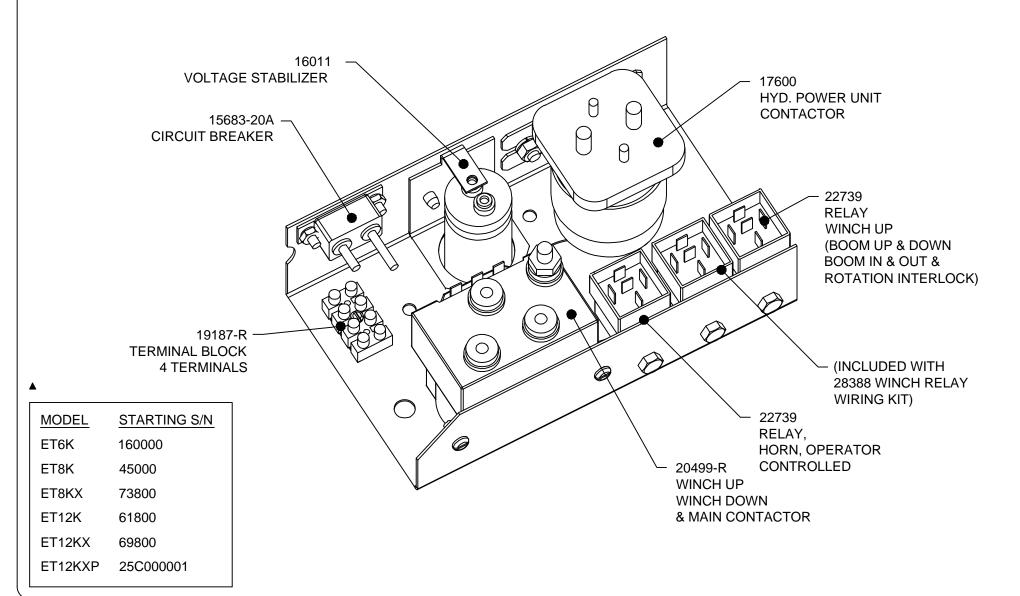
VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

	RPLCMNT FASTENERS LIST - 28008-1 & 2800	ET12 GEN. 'C' SERIES, 7' - 11' - 15' BOOMS
TE	RPLC	ET12

28126		EN. 'C' SERIES, 7' - 11' - 15' BOOMS
00100	SUPERSEDES	
C400	03-14-19	NT FASTENERS LIST - 28008-1 & 28008 03-14-19
SECTION	DATE	
25B000156 - CURRENT	JMBER RANGES: 3	ET12 SERIES SERIAL NUMBER RANGES: 25B000156 - CURRENT

28126

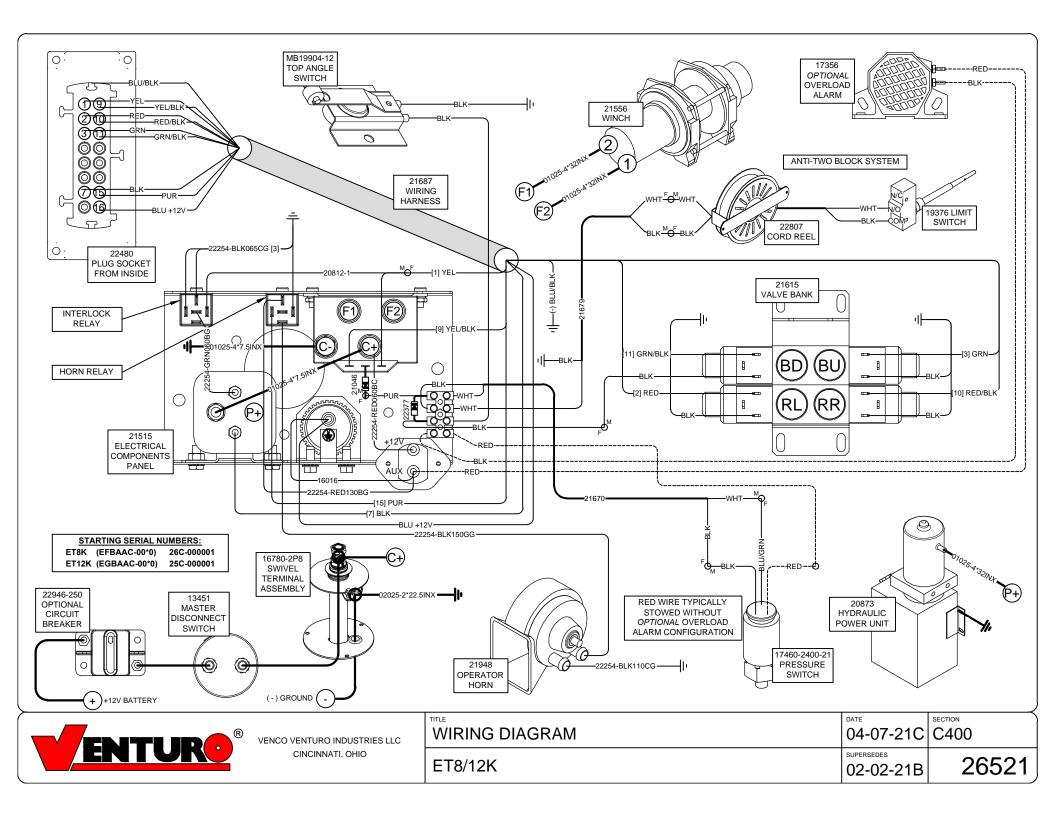
21515 ELECTRICAL COMPONENT ASSEMBLY

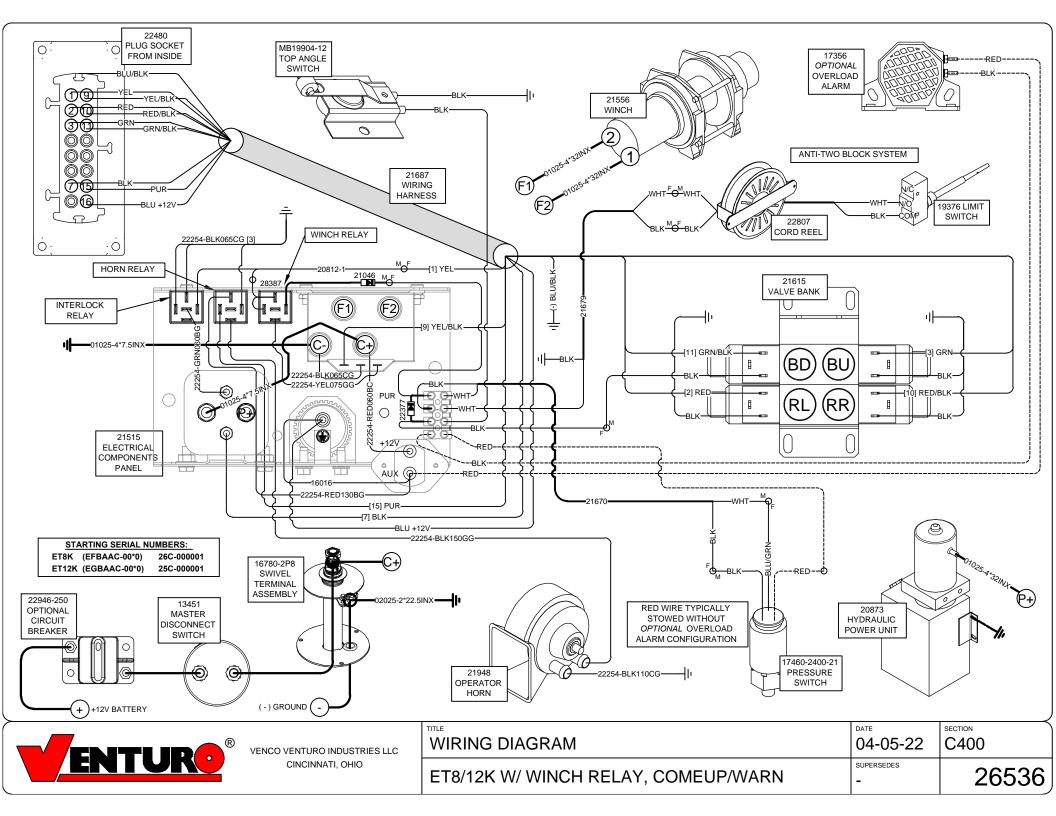


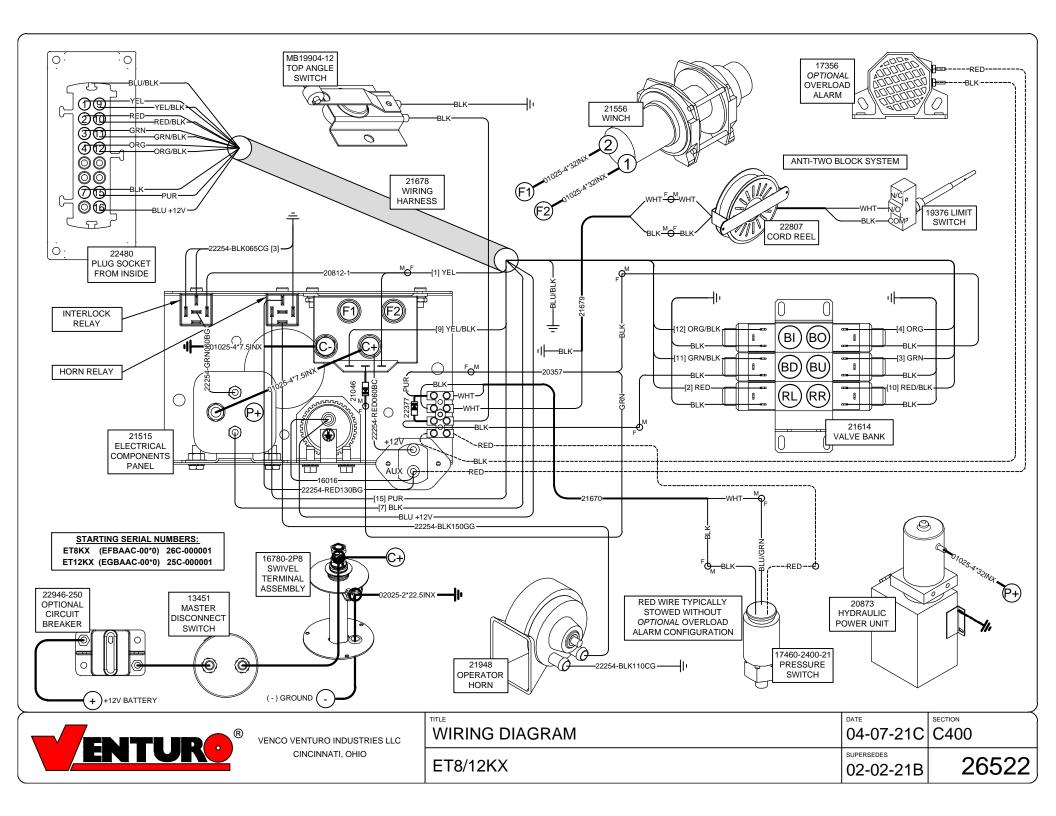


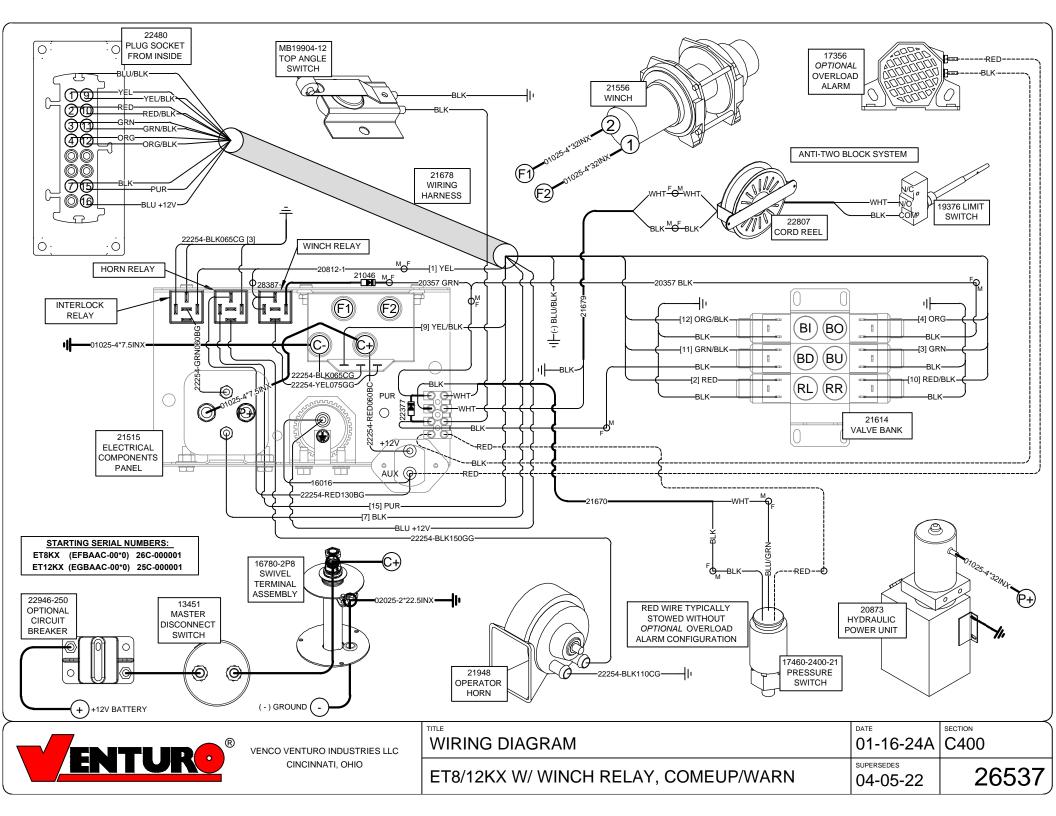
VENCO VENTURO INDUSTRIES LLC CINCINNATI. OHIO

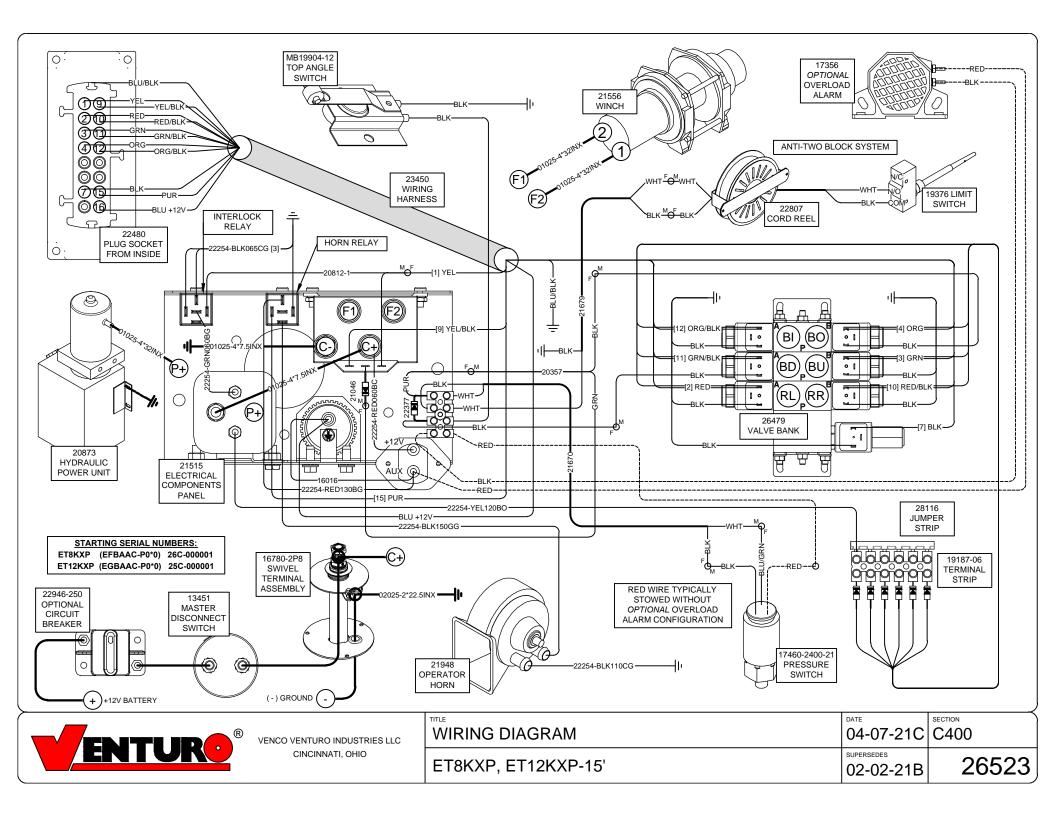
	TITLE	DATE	SECTION
	ELECTRICAL COMPONENT ASSEMBLY	03-02-23G	C400
Ī		SUPERSEDES	04000
	ET6K, ET8/12K(X), ET12KXP	07-31-18F	21600

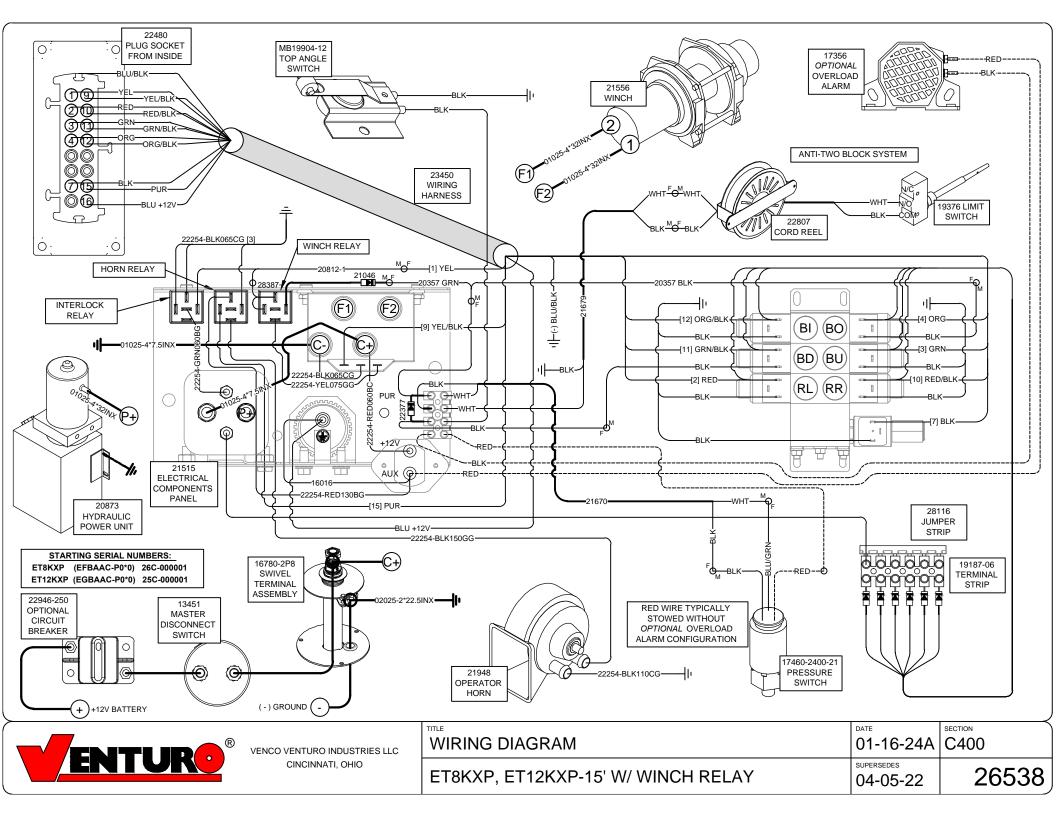




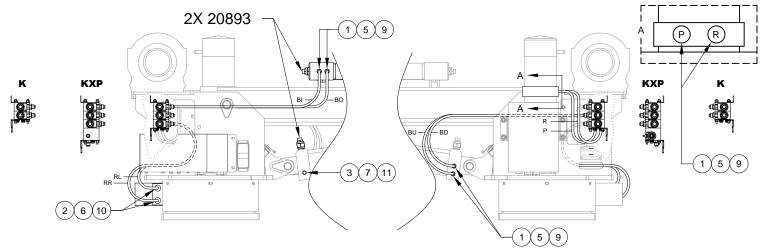








REPLACEMENT PARTS; HYDRAULIC COMPONENTS, ET8 (6-10-14) & ET12 (7-11-15) GEN 'C' SERIES

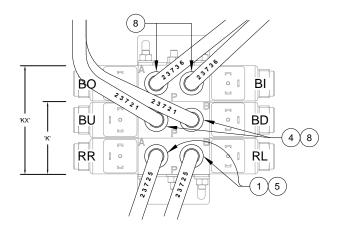


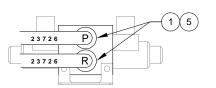
	23737 - ET8K GE	NERATI	ON 'C', NON-PROPORTIONAL, 6' - 10' - 14'
ITEM	PART#	QTY	DESCRIPTION
1	FF6400-0606	8	FITTING; ADAPTER, STRAIGHT, 6OFS-6MO
2	FF6400-0610	2	FITTING; ADAPTER, STRAIGHT, 6OFS-10MO
3	H6805-0404	1	FITTING; ADAPTER, 90° ELBOW, 4MO-4FP
4	FF6802-0606	2	FITTING; ADAPTER, 45° SWIVEL, 6MOFS-6MORB

23734	1 - ET8KX (6'-10'-1	4') & ET	12KX (7'-11'-15') GEN. 'C', NON-PROPORTIONAL
ITEM	PART#	QTY	DESCRIPTION
5	FF6400-0606	10	FITTING; ADAPTER, STRAIGHT, 6OFS-6MO
6	FF6400-0610	2	FITTING; ADAPTER, STRAIGHT, 60FS-10MO
7	H6805-0404	1	FITTING; ADAPTER, 90° ELBOW, 4MO-4FP
8	FF6802-0606	4	FITTING; ADAPTER, 45° SWIVEL, 6MOFS-6MORB

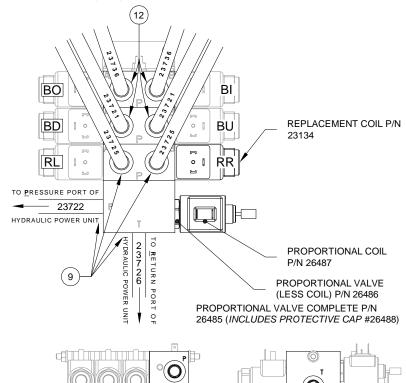
2373	35 - ET8KXP (6'-10)'-14') & E	ET12KXP (7'-11'-15'), GEN. 'C', PROPORTIONAL
ITEM	PART#	QTY	DESCRIPTION
9	FF6400-0606	10	FITTING; ADAPTER, STRAIGHT, 6OFS-6MO
10	FF6400-0610	2	FITTING; ADAPTER, STRAIGHT, 6OFS-10MO
11	H6805-0404	1	FITTING; ADAPTER, 90° ELBOW, 4MO-4FP
12	FF6802-0606	4	FITTING; ADAPTER, 45° SWIVEL, 6MOFS-6MORB

21615 (K) or 21614 (KX) NON-PROPRTIONAL VALVE BLOCK





26479 (KXP) PROPORTIONAL VALVE BLOCK

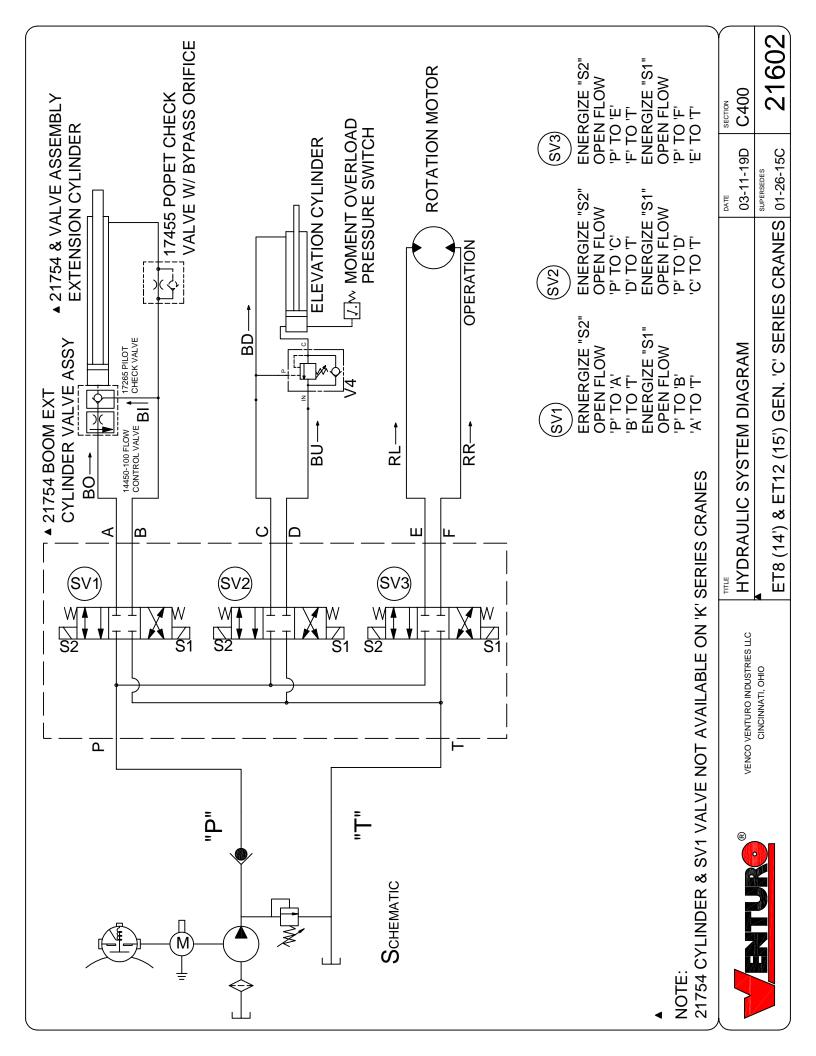


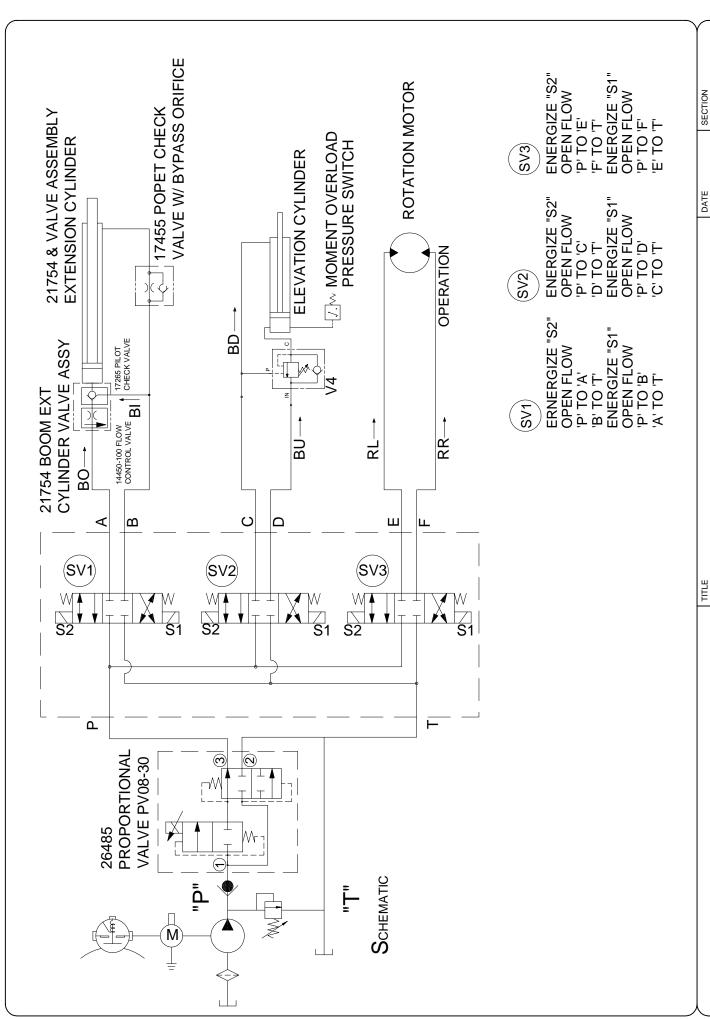


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VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

REPLACEMENT PARTS	03-08-19F	SECTION C400
ET8 (14') & ET12 (15') SERIES	12-16-16E	28037





WENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

LLC	HYDRAULIC SYSTEM DIAGRAM	03-11-19	C400
		SUPERSEDES	
	ET8KXP (6-10-14), ET12KXP (7-11-15), GEN. 'C'	1	28077

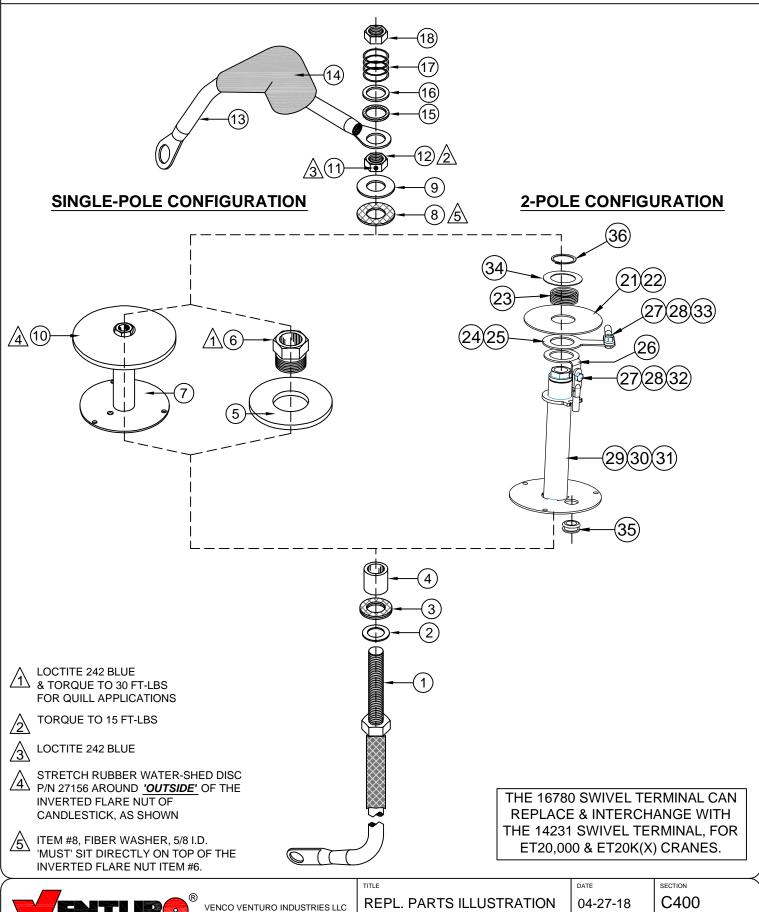
Single & 2-Pole Slip-ring Replacement Parts (1 of 2)

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- Fing (ET25-36KX)	F ALL CRANES		16780 BILLS OF MATERIALS		
16780	16780 - 1	16780 - 2P6	16780 - 2P8	16780 - 2P25	16780 - KIT				
		Q	TY			#	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	2	-	-	12	2	5	14318	FLAT WASHER; 1 3/16" I.D. X 2 3/4" O.D. X 3/16"	
1	=	-	-	(=)		6	The state of the s		
-	-	-	-	-	-	7	The standard		
1	1	1	1	1	1	8			
1	1	1	1	1	1	9	BE THE RESIDENCE OF THE PROPERTY OF THE PROPER		
_	1	-	-			10			
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- "	-	-	-	-	-	13			
	_	-		152		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		a a page a man an appropriate a man appropriate	
					-				
1	1	1	1	1	1	17	TO ACTUAL CONTROL OF THE CONTROL OF		
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 -	1	1	-	21	27456 27456-1	UHMW WATER SHIELD, (ET6K ONLY) UHMW WATER SHIELD, (ET8 - ET36)	
-	-	1	1	1		23	27461	SPRING, (-) SLIP-RING ASSY.	
-	-		1	1	-	24	27441-1	COPPER SLIP-RING, (ET8 - ET36)	
-	ij	1	=	-	-	25	27441	COPPER SLIP-RING, (ET6K ONLY)	
-	-	1	1	1	-	26	27449-1	BRASS SLIP-RING (ET6 - ET36)	
-	-	1	1	1	-	27 28	!HHCS03118075-B !HNUT-03118-B	BRASS HHCS BRASS NYLOC NUT	
=	-	1	-	-		29	23255	SLIP-RING, WELDED ASSY, ET6K	
-		•	1	(I II)		30	23255-1	SLIP-RING, WELDED ASSY, ET8 - 18K(X)	
=	H	=	=	1	T	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	÷	34	02025-2*22.5INX 27463	(-) WELDING CABLE ASSY, COPPER SLIP-RING SHIM, WIDE RIM, 18GA, 2-1/4 O.D. X 1-1/2 I.D.	
-	-	1	1	1	Ė	35	20889	RUBBER GROMMET	
-	-	1	1	1	=	36	!SRNG-150	SNAP-RING, EXTERNAL, 1-1/2"	



TITLE	DATE	SECTION
16780 REPLACEMENT PARTS	03-29-19A	C400
	SUPERSEDES	21202
ET6/8/12/16/18/25/30/36K(X)	04-27-18	Z1Z9Z

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

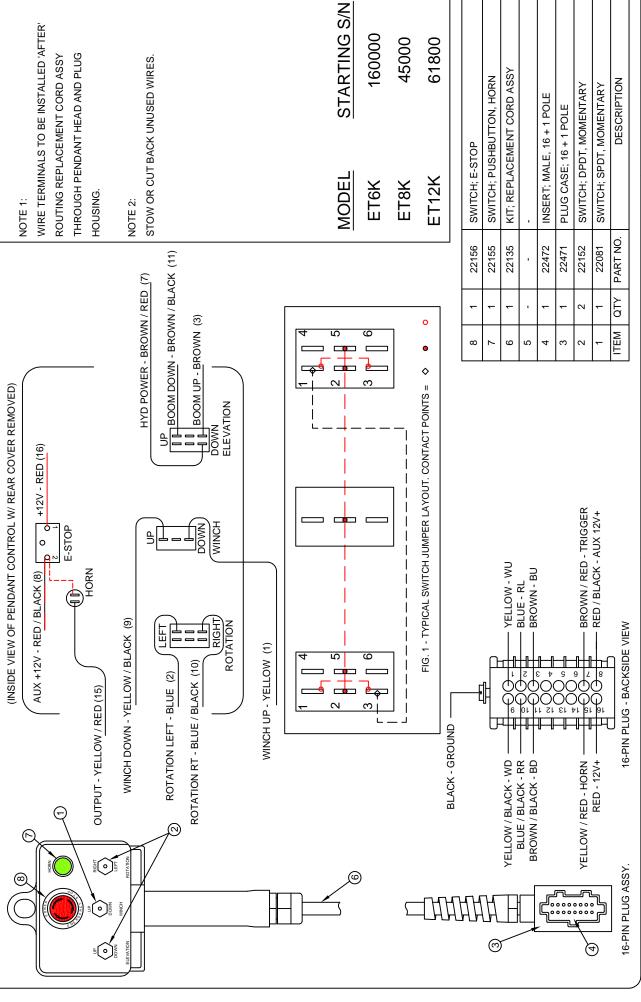


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A		

/ENCO VENTURO INDUSTRIES LI CINCINNATI, OHIO

ET6/8/12/16/18/25/30/36K(X)	SUPERSEDES	21293
REPL. PARTS ILLUSTRATION	04-27-18	C400
TITLE	DATE	SECTION

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



8	1	22156	SWITCH; E-STOP
7	1	22155	SWITCH; PUSHBUTTON, HORN
9	1	22135	KIT; REPLACEMENT CORD ASSY
2	-	-	-
4	ı	22472	INSERT; MALE, 16 + 1 POLE
3	1	22471	PLUG CASE; 16 + 1 POLE
5	7	22152	SWITCH; DPDT, MOMENTARY
_	1	22081	SWITCH; SPDT, MOMENTARY
ITEM	QTY	ITEM QTY PART NO.	DESCRIPTION



VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

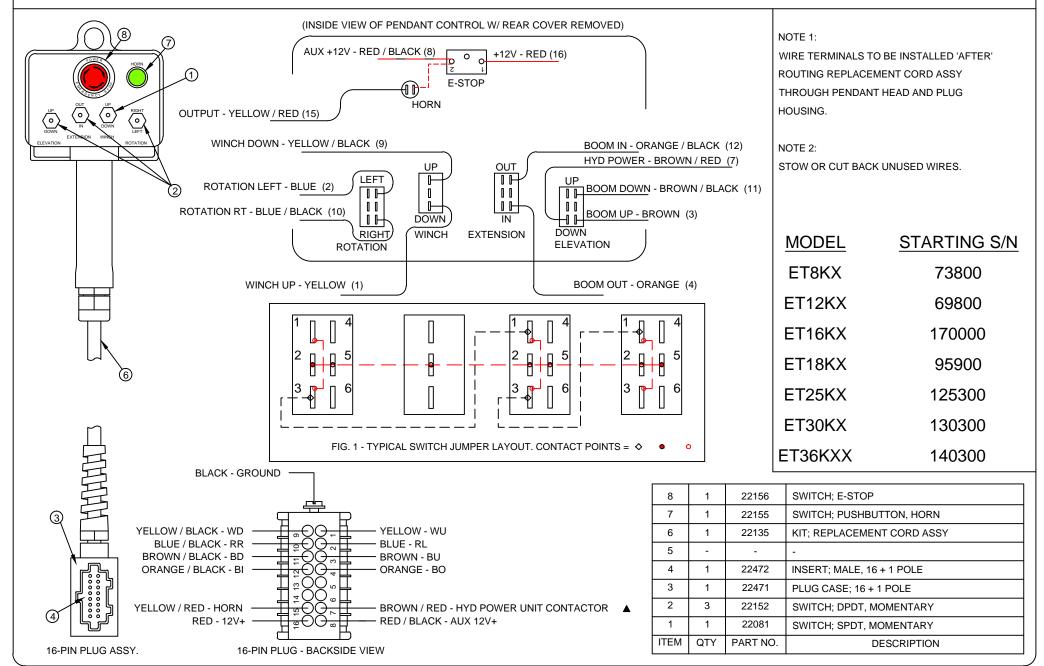
EPLACEMENT PARTS DWG & LIST	10-03-14
	SUPERSEDES
1991 PNDNT 3 FNCTN FT CRNS FSTP/HRN	

23076

C400

DATE

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





VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO REPLACEMENT PARTS DWG & LIST

01-12-17B

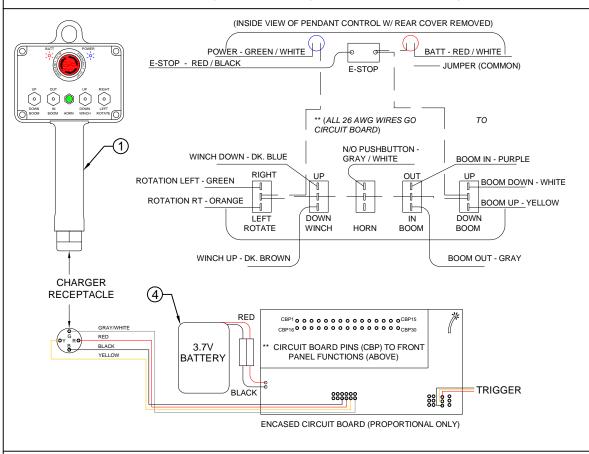
C400

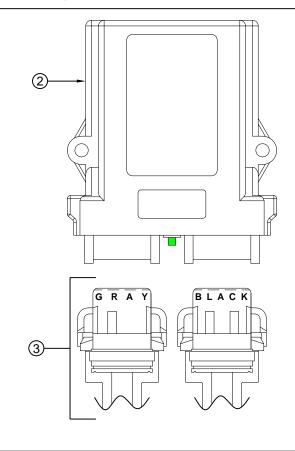
21990 PNDNT; 4 FNCTN ET CRNS, ESTP/HRN

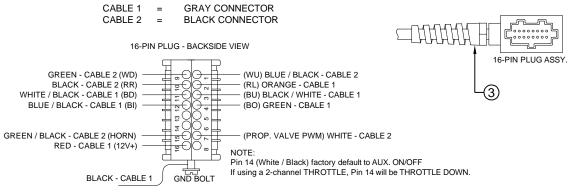
10-20-14A

23075

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







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



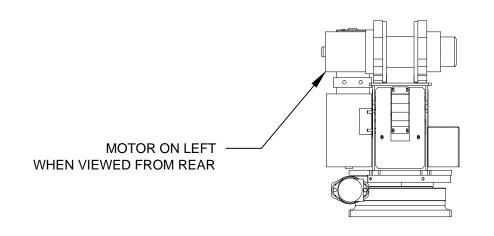
VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

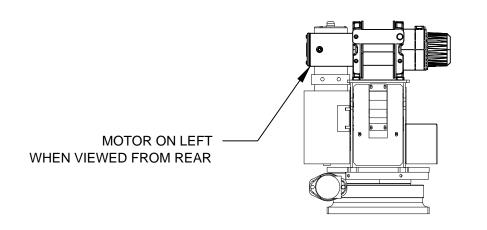
TITLE			DATE	SECTION
REPLACEMENT PARTS	DWG & LIST		03-11-19A	C400
			SUPERSEDES	00-00
ET PROPORTIONAL SE	RIES CRANES	A	07-31-18	23786

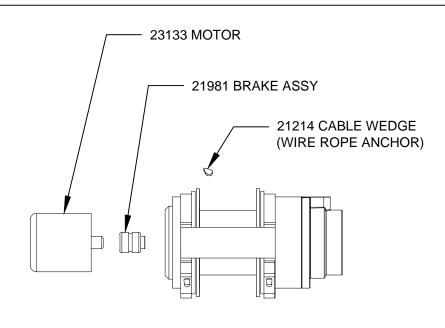
21556 WINCH REPLACEMENT PARTS

WARN DC1600

COMEUP GTD-2200

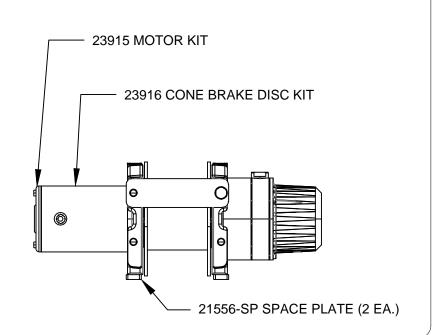






MANUFACTURING, INC.

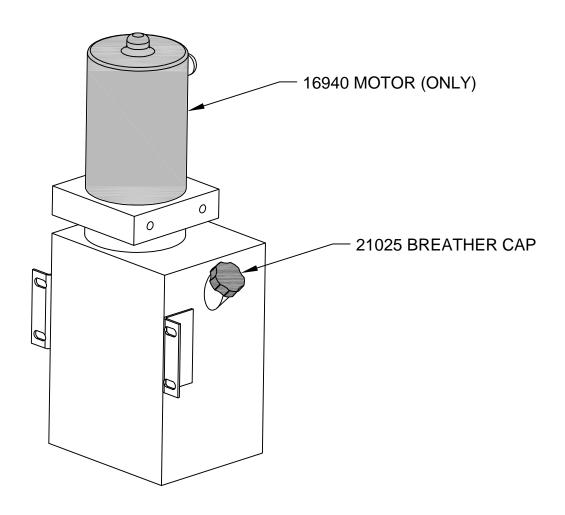
CINCINNATI, OHIO





WINCH REPLACEMENT PARTS (DC1600) C400 10-24-22E SUPERSEDES 21741 ET8/12K(X) 06-16-22D

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



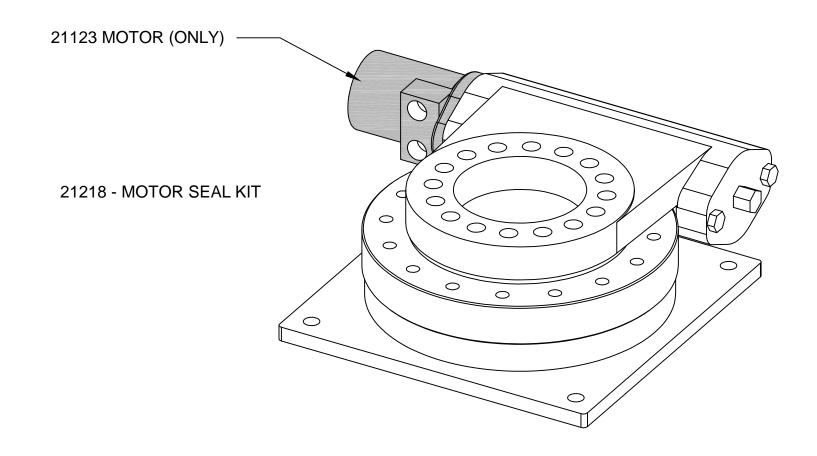
NOTE:

HYDRAULIC POWER UNIT SETTINGS ARE AS FOLLOWS:

▲ ET8/12K(X) PRESSURE = 2600 PSI

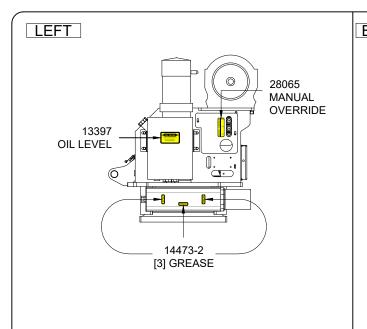
VENCO VENTURO INDUSTRIES LLC I I.F.U. NF LOIVIN I FAN I 3 UI-20-13D	0.00	· · ·			
® HPII RPI CMNT PARTS 01.26-15R	C400	01-26-15B			

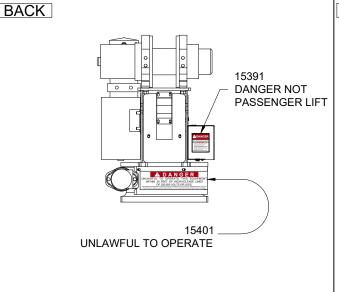
21735 SLEWING SYSTEM REPLACEMENT PARTS

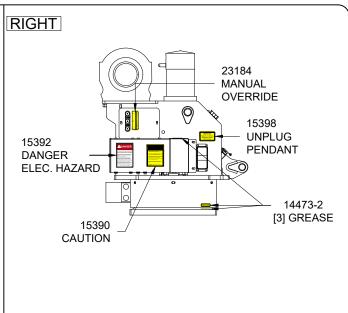




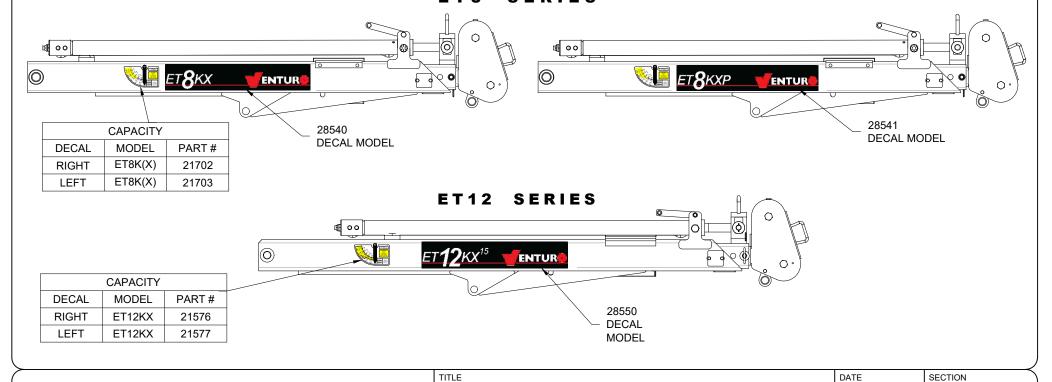
TITLE	DATE	SECTION
SLEWING SYSTEM REPLACEMENT PARTS	10-23-14B	C400
ET8/12K & ET8/12/16/18KX	SUPERSEDES 12-27-13A	21973













VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

DECAL PLACEMENT

11-14-23

C400

ET8 & ET12-15' SERIES

28543

FIELD SERVICE LABEL KIT; ET12KX-15'

21586; FIELD SERVICE LABEL KIT, ET12KX						
	SERIAL RANGE: 68900 - CURRENT					
PART#	QTY	DESCRIPTION				
14473-2	6	DECAL; GREASE				
28550	2	DECAL; VENTURO, ET12-15'				
21576	1	DECAL; BOOM CAPACITY, ET12 SERIES, RIGHT				
21577	1	DECAL; BOOM CAPACITY, ET12 SERIES, LEFT				
13397	1	DECAL; OIL LEVEL				
28065	1	DECAL; MANUAL OVERRIDE, RIGHT				
23184	1	DECAL; MANUAL OVERRIDE, LEFT				
17813	1	DECAL; OVERLOAD SENSING SYSTEM				
16184-1	1	DECAL; HORN RELAY				
28552	1	IDWG; FIELD SERVICE LABEL KIT LIST				
28543	1	IDWG; DECAL PLACEMENT				
INST-23233	1	SAFETY MANUAL, VENTURO CRANES				
15397	1	KIT; ACCIDENT PREVENTION SIGNS				



FIELD SERVICE LABEL KIT	11-15-23	C400
FT12KX-15'	SUPERSEDES	285

VENTURO CRANES LIMITED WARRANTY POLICY



Venturo products are built to last...we guarantee them.

As a purchaser of any new Venturo product covered by warranty, you will receive 1 year of the most complete coverage available...and, at no added cost to you.

1-Year Limited Warranty Policy

This limited policy warrants new products of Venturo to be free from defects in material and workmanship for a period of one (1) year from date of original installation. OEM products or accessories purchased by Venturo as part of or offered with our product will carry the OEM manufacturer's respective warranty. Our warranty covers:

- Repair or replacement of product
- Labor to repair or replace product
- Freight to return and/or replace product

We shall not be liable for any contingent liabilities arising out of the improper function of any products. Warranty shall become void if the product is improperly installed, modified, damaged, abused or used for application other than intended use. There is no warranty of merchantability, fitness for a particular purpose, warranty arising from course of dealing or usage of trade, or any other implied or expressed warranty, except as made specifically herein. This warranty supersedes all previous warranties, written or implied.

Warranty Claims

Venco Venturo Industries LLC will make a good faith effort for prompt correction or other adjustment with respect to any product, which proves to be defective after our inspection and within the warranty period. Before any repairs are attempted or before returning any product, your Venturo Distributor is required to obtain a warranty claim number. This number is necessary for any claim to be considered. To obtain a warranty claim number, Venturo requires the model and serial number. Only authorized Venturo Distributors can perform warranty. For the name and address of your local Venturo Distributor call the **Warranty Claim Department - 513-772-8448.**

WARNING - It is the responsibility of the installer to ensure the installation is completed according to the manufacturer's recommendations, ensure the ultimate user understands how to operate product in a safe manner, and understands the need for regular service and maintenance by an authorized Venturo Distributor. No modifications or alterations may be made to any Venturo product without the expressed written consent of Venco Venturo Industries LLC. Installation of any Venturo product must be done by an authorized Venturo Distributor, to the standards of the industry; including maintenance, service and affixing of all instruction, safety and warning decals. Users should be instructed as to the safe operation at time of delivery. Maintenance, service, operation and safety warning decals are available on request from Venco Venturo Industries LLC.

VENCO VENTURO INDUSTRIES LLC

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

Revised: January 2015 12-00073_VNT1-D