

ЕТ12К(Х)

INSTALLATION & OWNER'S MANUAL

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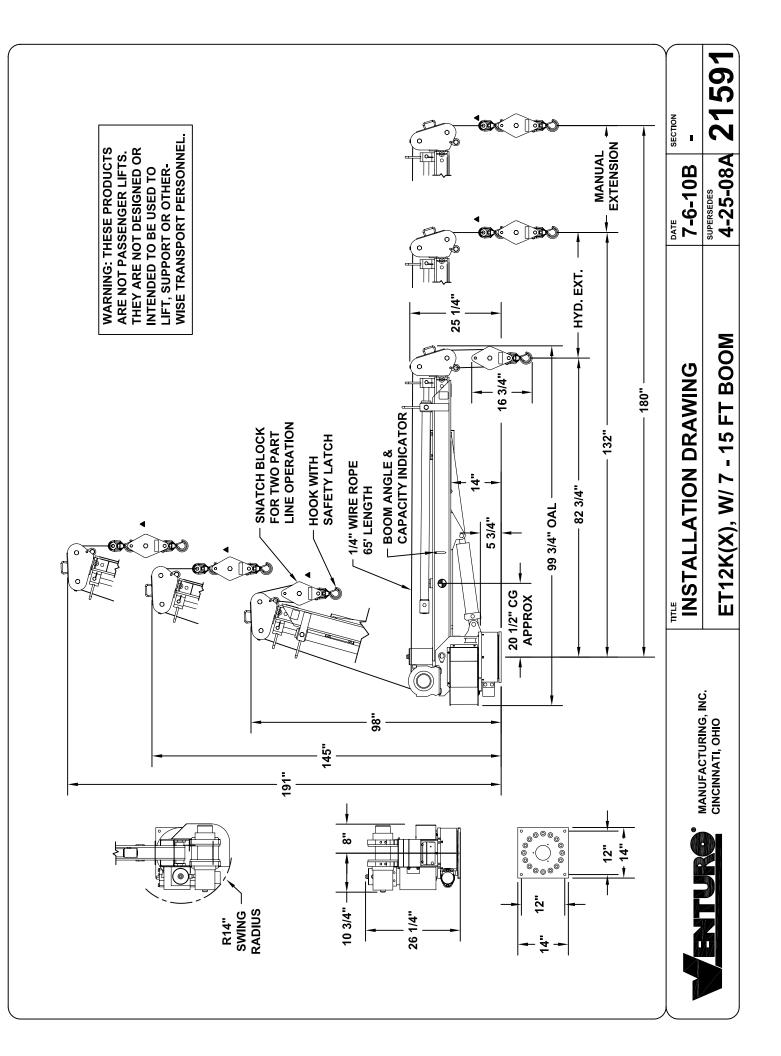
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			E112K(X)	7-31-08H	21390				

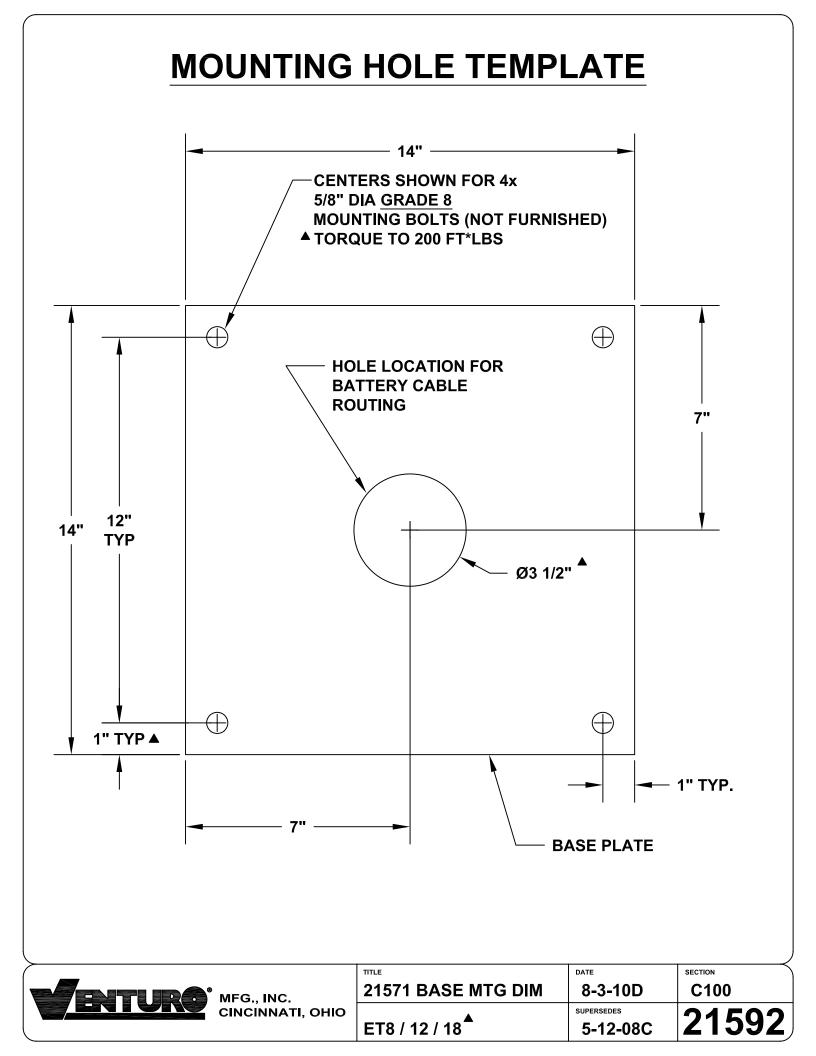
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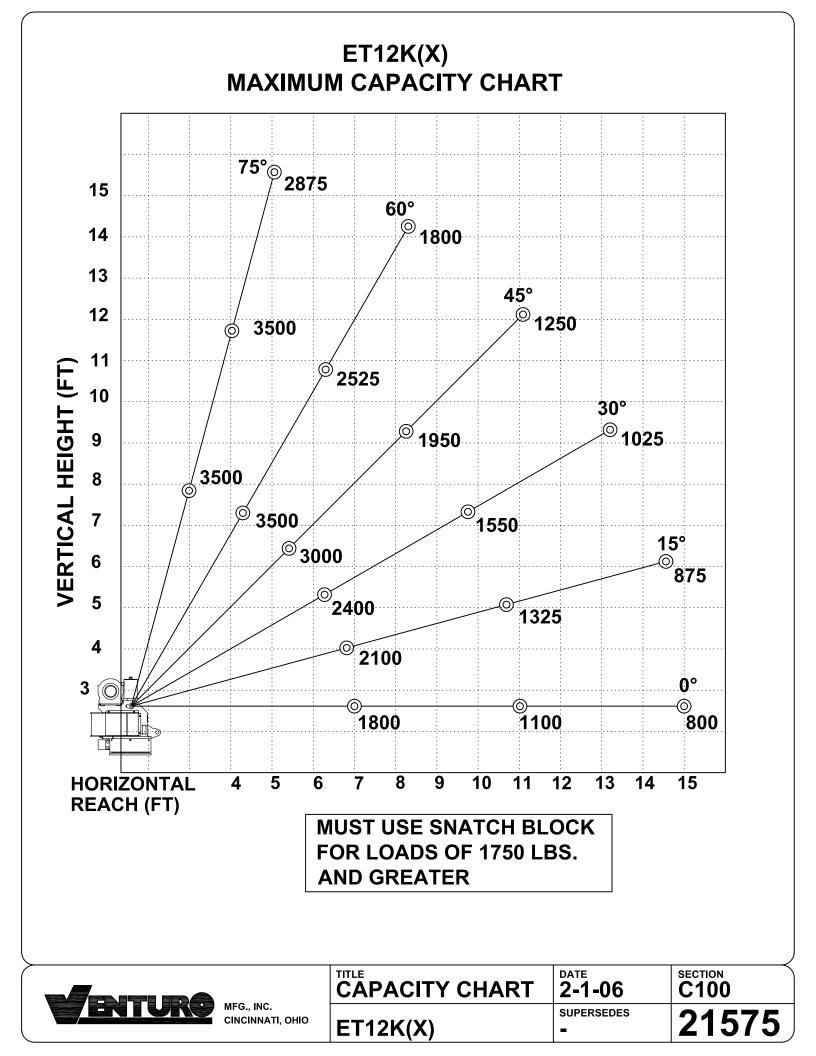


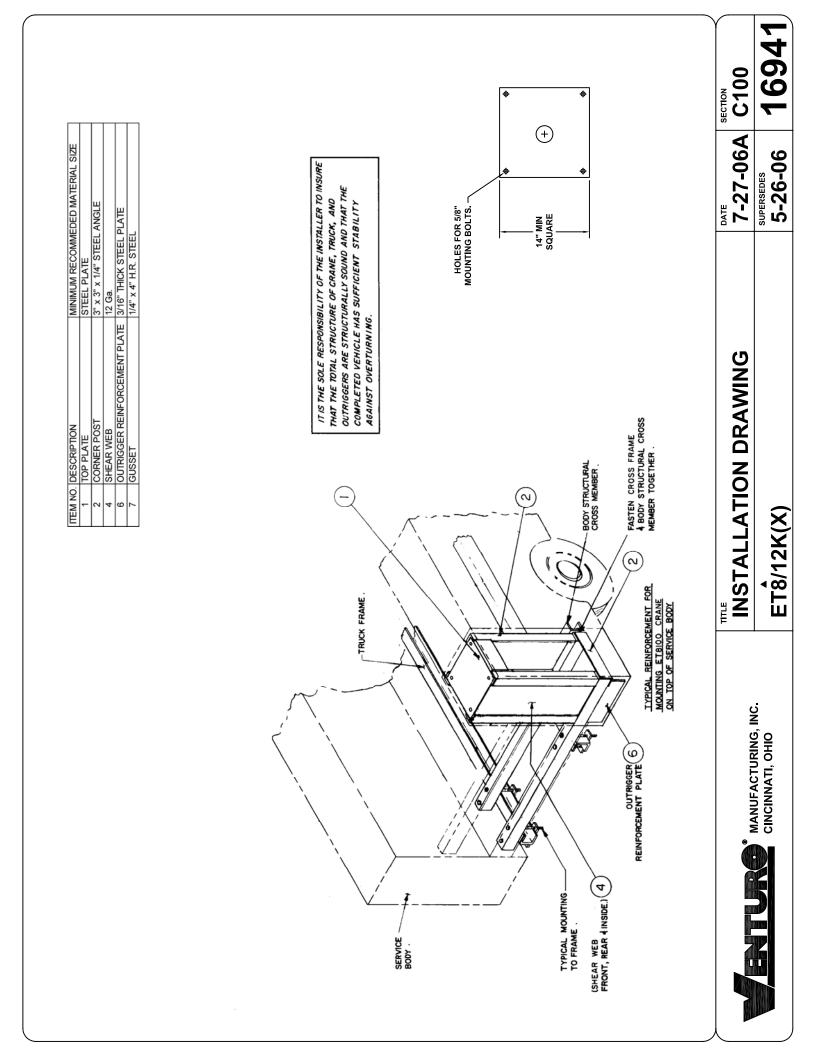
SPECIFICATIONS

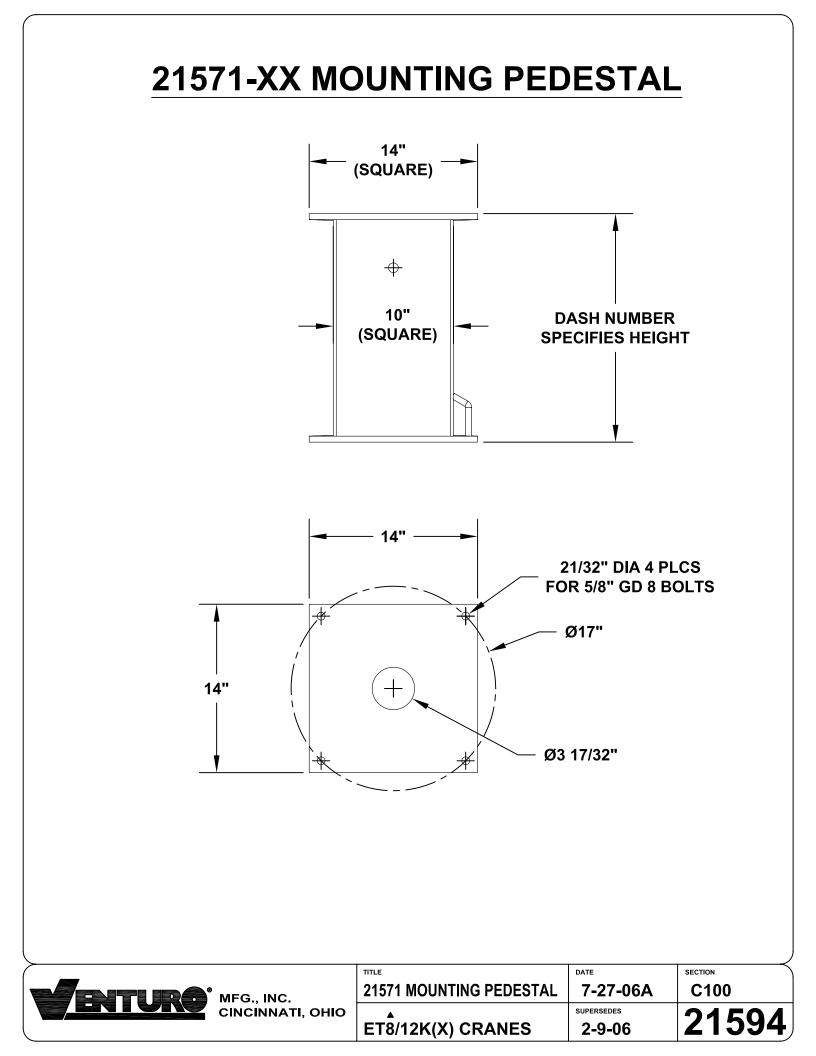


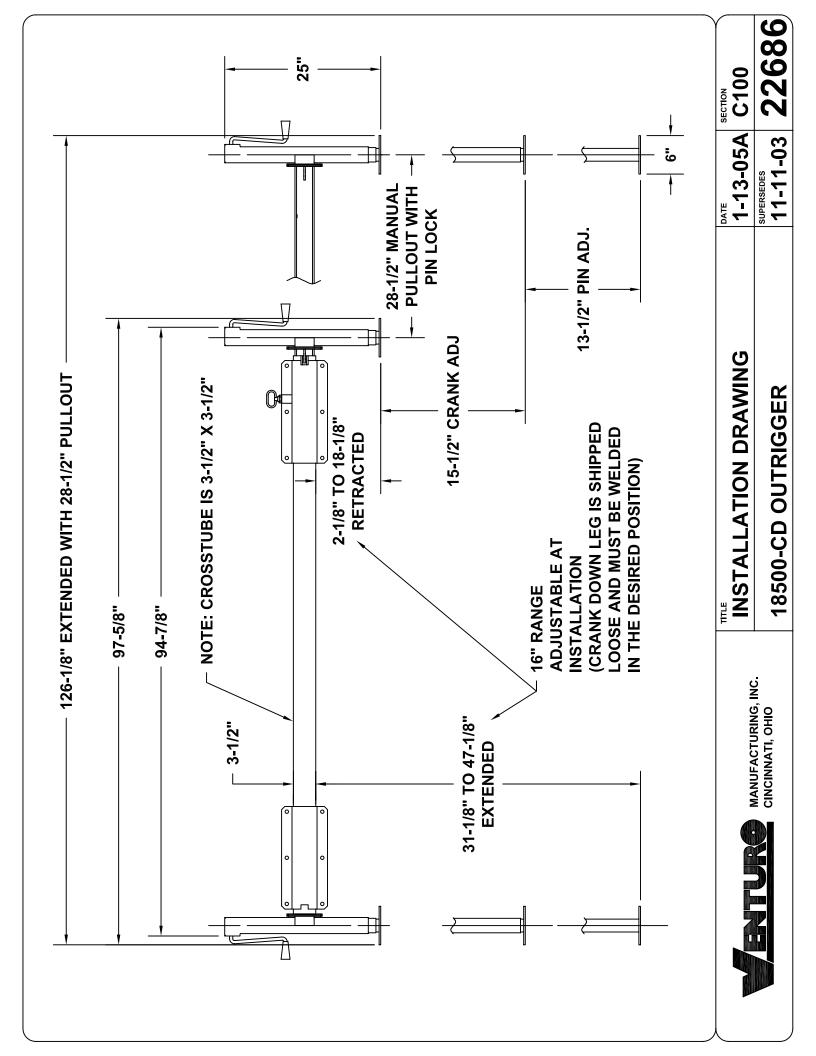


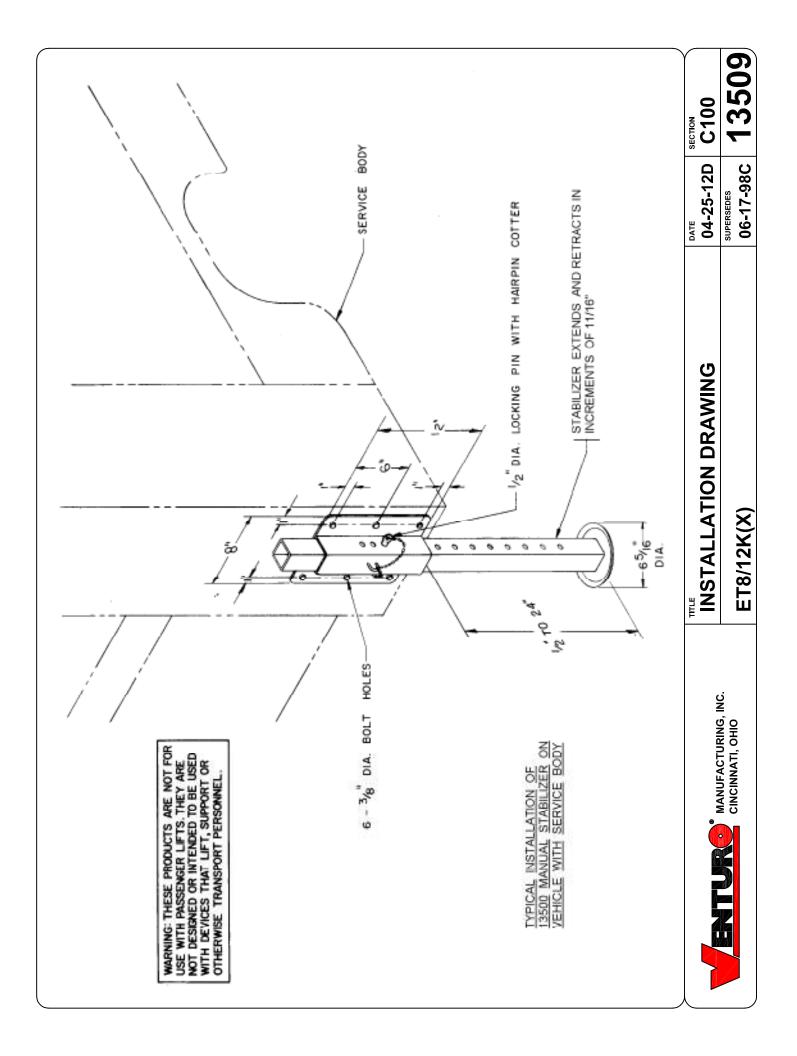


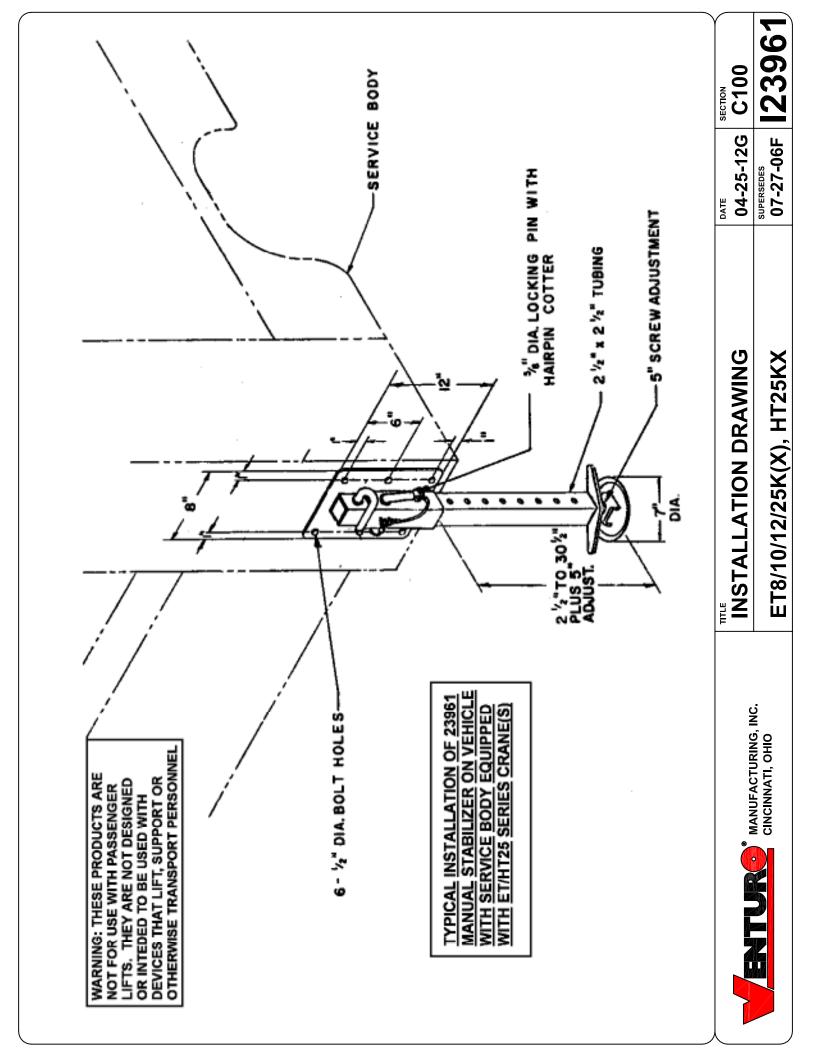


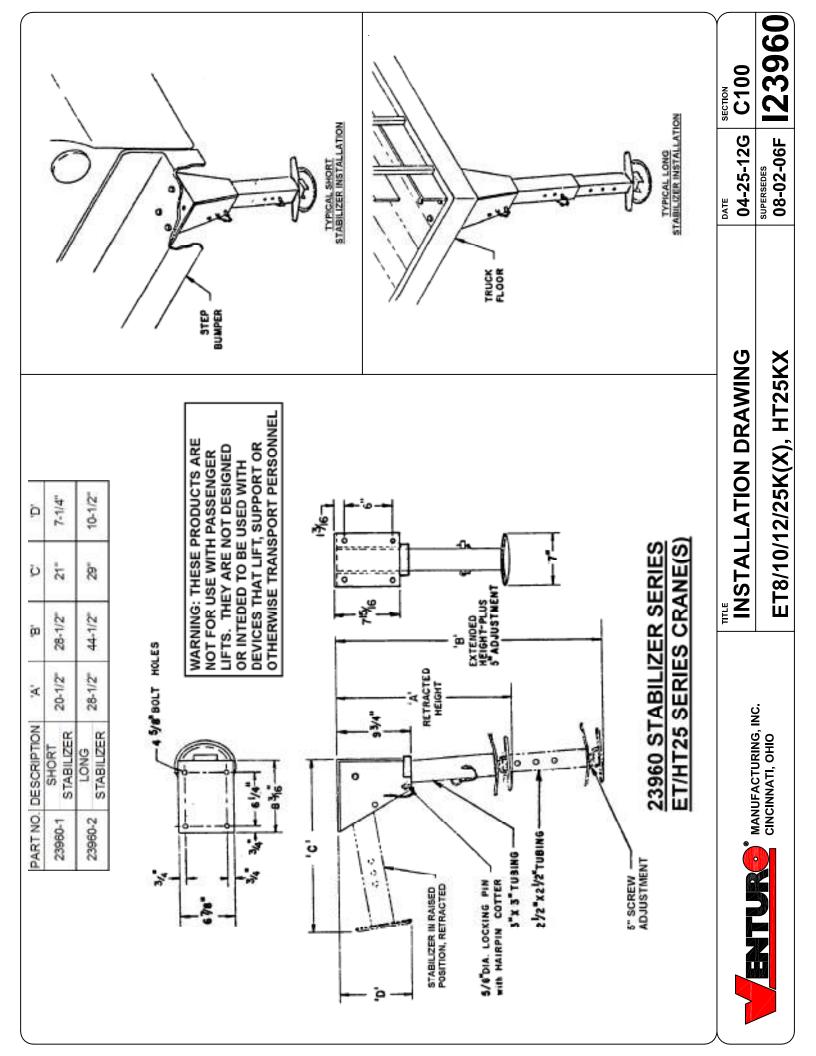












SAFETY



CRANE SAFETY AND HAZARDS

ETCRANES 🔺

CAUTIONS

- 1. INSPECT VEHICLE AND CRANE, INCLUDING OPERATION, PRIOR TO USE DAILY.
- 2. DO NOT USE THIS EQUIPMENT EXCEPT ON SOLID, LEVEL SURFACE 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 NOT IN USE.
- 7. FOR TRAVEL, BOOM MUST BE IN STOWED POSITION.

DANGER

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

YOU MUST NOT OPERATE THIS CRANE UNLESS

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

ELECTROCUTION HAZARD

- THIS MACHINE IS NOT INSULATED.
- MAINTAIN SAFE CLEARANCES FROM ELECTRICAL LINES AND APPARATUS.
- YOU MUST ALLOW FOR BOOM SWAY, ROCK OR SAG, AND ELECTRICAL LINE AND LOADLINE 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, LOADLINE, OR LOAD, AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 50,000 VOLTS. ADDITIONAL CLEARANCE IS REQUIRED FOR VOLTAGES IN EXCESS OF 50,000 VOLTS. REFER TO DRAWING 15394 FOR ADDITIONAL INFORMATION.
- **DEATH OR SERIOUS INJURY** WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE.

VENTURO	MFG., INC.		^{date} 4-18-08H	SECTION C150
	CINCINNATI, OHIO	▲ ELECTRIC CRANES	SUPERCEDES	850711

VEHICLE & CRANE MOUNTED ELECTRICAL HAZARD SIGN APPLICATION & INFORMATION

ET & HT CRANE SERIES



SIGN NO. 15393A 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 10 FEET OF HIGH - VOLTAGE LINES OF 50,000 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.

REQUIRED MINIMUM CLEARANCES REFERRED TO ON SIGN NO. 15401

REQUIRED CLEARANCES FROM OVERHEAD HIGH-VOLTAGE LINES

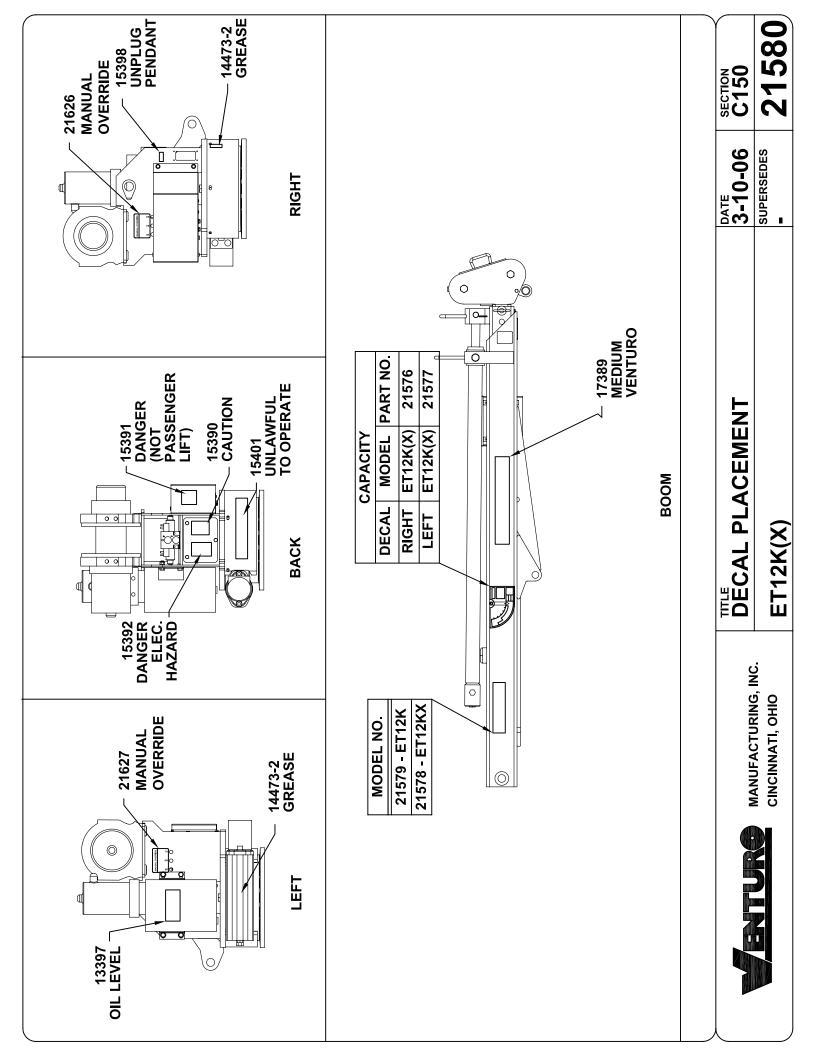
NOMINAL VOLTAGE (kV)	MINIMUM REQUIRED
(PHASE TO PHASE)	CLEARANCE (FEET) *
0 - 50	10
over 50 - 200	15
over 200 - 350	20
over 350 - 500	25
over 500 - 750	35
over 750 - 1000	45

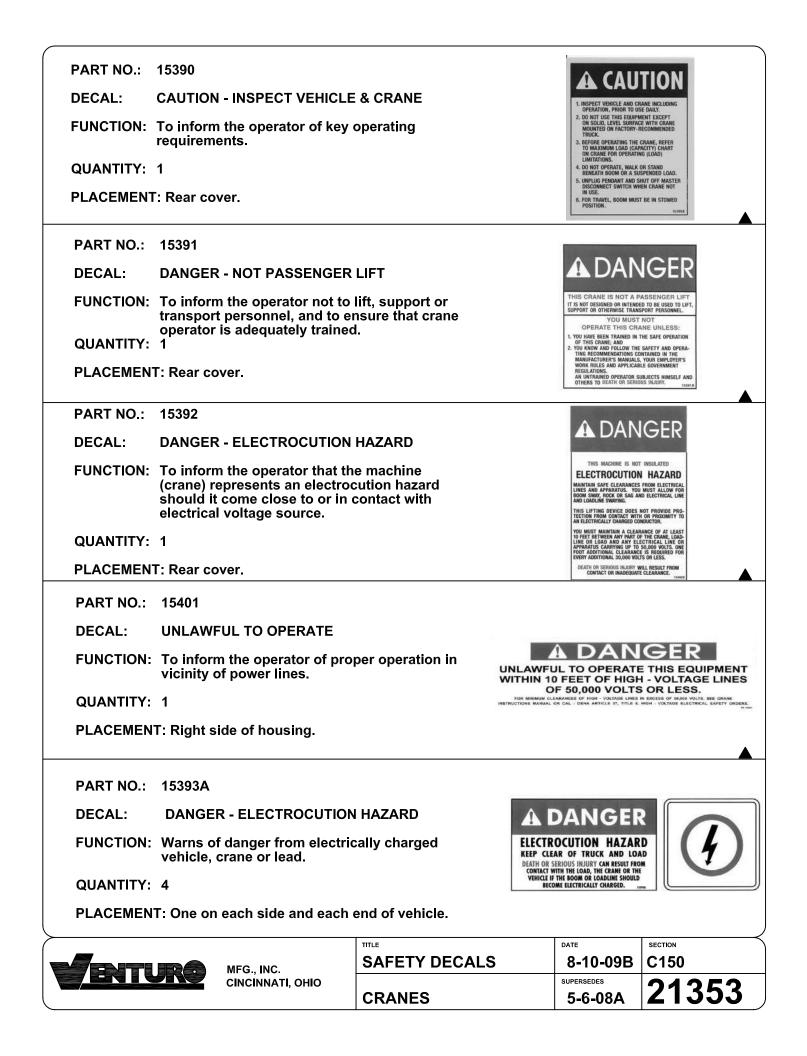
REQUIRED CLEARANCES FROM ENERGIZED HIGH-VOLTAGE CONDUCTORS (WHILE IN TRANSIT)

NOMINAL VOLTAGE (kV)	MINIMUM REQUIRED
(PHASE TO PHASE)	CLEARANCE (FEET) *
0 - 0.75	4
over 0.75 - 50	6
over 50 - 345	10
over 345 - 750	16
over 750 - 1000	20

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







PART NO.: 14473-2			
DECAL: GREASE			OF I
FUNCTION: To show the operator where t	o apply grease.	GREA	SE
QUANTITY: Varies			
PLACEMENT: Near grease fittings.			
PART NO.: 13397		ILL WITH BOOM	A DOWN
DECAL: OIL LEVEL		OIL LEVE	
FUNCTION: To inform the operator of prop maintain.	per oil level to u	SE AUTOMATIC TRANSMI	ISSION FLUID
QUANTITY: 1			#13397
PLACEMENT: Side of hydraulic power unit			
PART NO.: 15398			
DECAL: UNPLUG REMOTE CONTROL		UNPLU	JG
FUNCTION: To inform the operator to unp control when not in use.	lug remote	REMOTE CON PENDANT W NOT IN US	HEN
QUANTITY: 1			#15398
PLACEMENT: Near pendant socket.			
		DATE 8-10-09B	section C150
ENTURO [®] MFG., INC. CINCINNATI, OHIO	ET CRANES	SUPERSEDES 5-6-08A	21354

PART NO.: 17813

- DECAL: OVERLOAD SENSING SYSTEM
- FUNCTION: To advise the operator of the opera overload system.

QUANTITY: 1

PLACEMENT: Right side of housing.

PART NO.: 14459 .

- DECAL: **OVERLOAD ALARM SYSTEM**
- FUNCTION: To advise the operator of the overload alarm system.
- **QUANTITY: 1**

PLACEMENT: Rear of housing.

- PART NO.: 19731-2
- DECAL: SNATCH BLOCK CAPACITY DECAL
- FUNCTION: To show the capacity of snatch block.
- QUANTITY: 2

PLACEMENT: Each side of snatch block.

ation of the	CRANE IS EQUIPPED WITH AN OVERLOAD SENSING SYSTEM 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 SQUND. 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 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 #17813

THIS CRANE EQUIPPED WITH OVERLOAD ALARM SY	STEN
1. OVERLOAD ALARM HORN SOUNDS IF RATED LOAD IS EXCEEDED AT ANY	REACH
2. IF ALARM SOUNDS, RAISE BOOM OR LOWER WINCH TO REMOVE OVERLO	AD.
3. ALWAYS RAISE BOOM SLIGHTLY BEFORE LIFTING LOAD. WARNING SYSTEM INOPERATIVE WHEN CYLINDER IS COMPLETELY 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.	Ģ
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 ALARM	#14450

SNATCHBLOCK CAP. 4000 LBS. NOTE: ACTUAL CRANE CAP. MAY BE LOWER
19731-2

MFG., INC.	MISC. DECALS	^{date} 5-8-08C	section C150
CINCINNATI, OHIO	ET6KR - ET8K(X) - ET12K(X)	supersedes 6-8-07B	21362

PART NO ·	21576 & 21577	(OPPOSITE)
	LIGIOGEIGII	

DECAL: CRANE CAPACITY

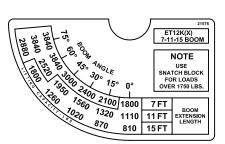
- FUNCTION: To show the operator the operating capacities of crane.
- QUANTITY: 1 each
- PLACEMENT: One on each side of boom.
- PART NO.: 21579
- DECAL: MODEL NUMBER (ET12K)
- FUNCTION: To show the model of the crane.
- QUANTITY: 2
- PLACEMENT: One on each side of boom.
- PART NO.: 21578
- DECAL: MODEL NUMBER (ET12KX)
- FUNCTION: To show the model of the crane.
- QUANTITY: 2
- PLACEMENT: One on each side of boom.
- PART NO.: 21626
- DECAL: MANUAL OVERRIDE RIGHT (ET12KX)
- FUNCTION: To show the manual override ports.
- QUANTITY: 1
- PLACEMENT: Right side of housing.
- PART NO.: 21627
- DECAL: MANUAL OVERRIDE LEFT (ET12KX)
- FUNCTION: To show the manual override ports.
- QUANTITY: 1
- **PLACEMENT:** Left side of housing.



TITLE

ET12K(X)

MODEL & CAPACITY DECALS





ET12KX

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MANU	JAL OVE	RRIDE
MANU	JAL OVE	RRIDE
MANU		RRIDE

SECTION

C150

21595

DATE

5-7-08A

SUPERSEDES

2-9-06

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 BATTERY SIZE

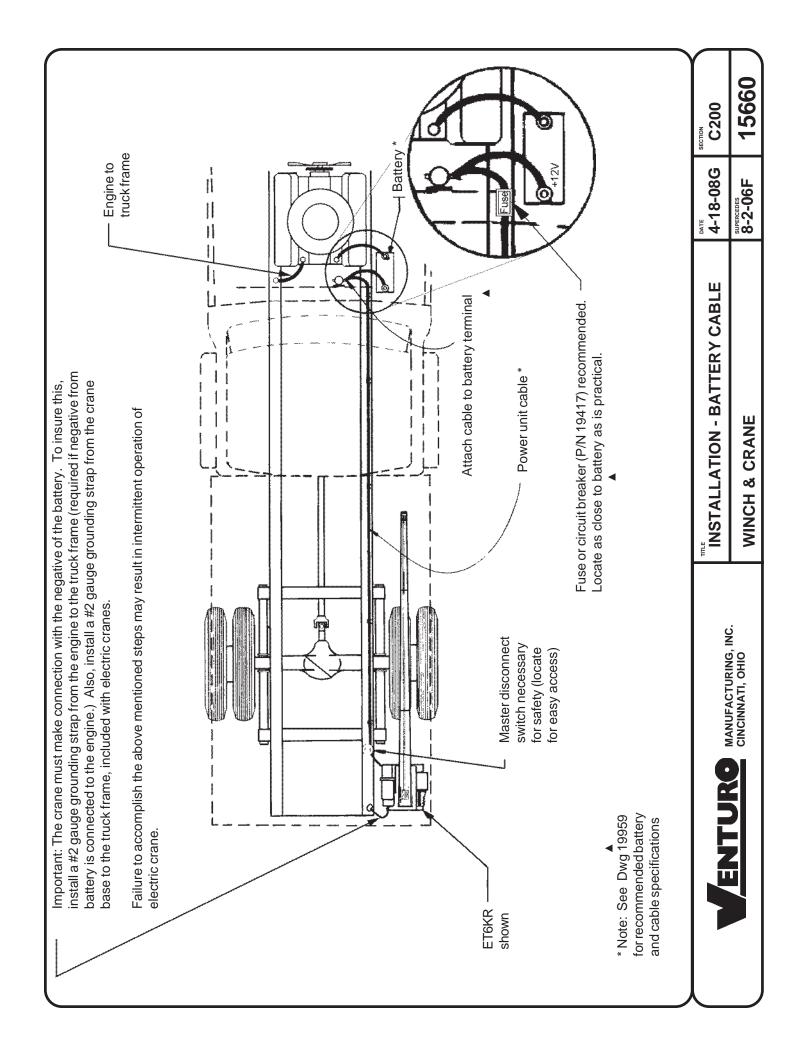
MODEL		TOTAL LENGTH OF CABLE (FT)*						12 VOLT BATTERY REQUIREMENTS		
	0-20	21-25	26-30	31-40	41-50	51-60	61-70	71-80	CCA (A)**	RC (MIN)***
CE6K CT2000 CT2003/4/5 DT7K	#4	#4	#2	#2	#1	#0	#0	#00	350	100
ET5500MPB ET5500R ET6KMPB ET6KR ET8K ▲ ET10K ET12K ▲	#2	#2	#1	#0	#00	NOTRECOMMENDED		450	100	
ET8KX A ET10KX ET12KX A	#2	#2	#1	#0	#00	NOTRECOMMENDED		550	150	
ET25K ET25KX	SEEDI	RAWING 12	24600 FOR	CABLEAN	IDBATTE	RY REQUI	REMENTS	3		

* INCLUDES GROUND CABLE

** CCA=COLD CRANKING AMPS AT 0' F. THE CCA RATING IS A MEASURE OF THE ABILITY OF THE BATTERY TO DELIVER A <u>HIGH CURRENT</u> FOR A SHORT PERIOD OF TIME.

*** RC=RESERVE CAPACITY IN MINUTES AT 25 AMPS AND 80' F. THE RC RATING IS A MEASURE OF THE <u>PERIOD OF TIME</u> THE BATTERY CAN SUPPLY A GIVEN CURRENT WITHOUT RECHARGING.

VENTURO	MEG INC	CABLE & BATTERY	DATE 8-2-06S	section C200
	MFG., INC. CINCINNATI, OHIO	CE, CT, DT, & ET	SUPERCEDES	711105



STABILITY TESTING - ET12K(X)

<u>Overview</u>

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

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

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

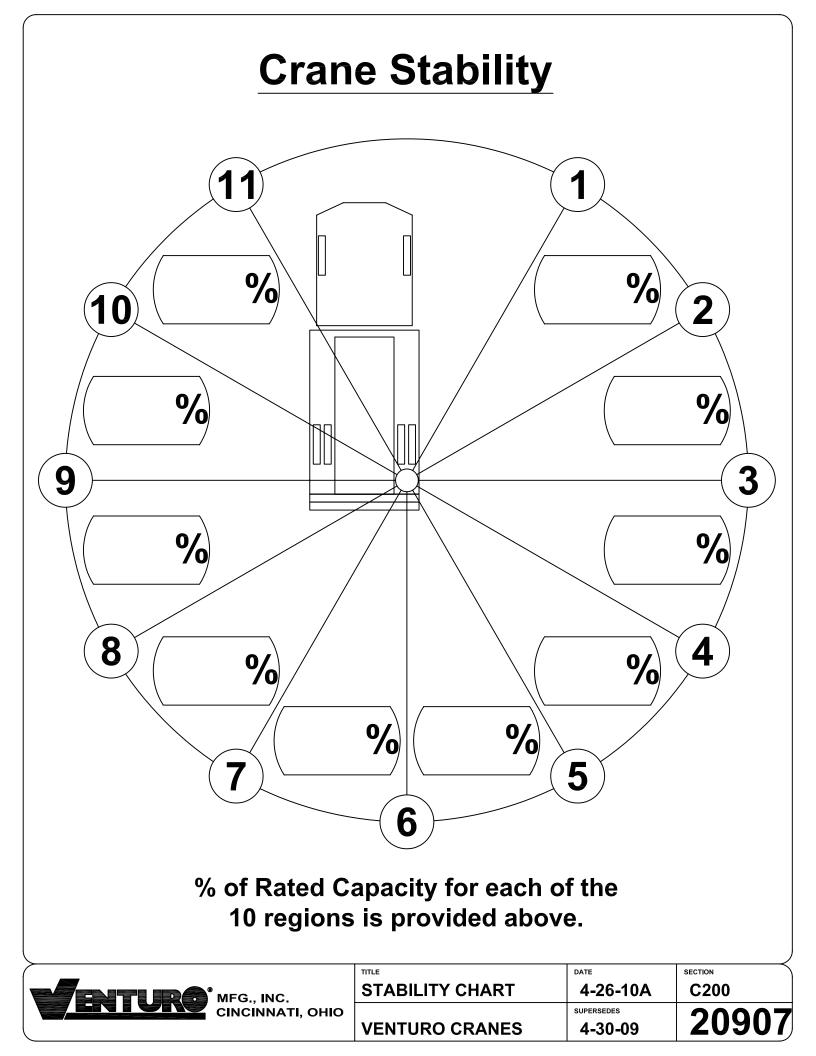
Testing Procedure

- 1. Locate the truck on level ground and set the parking brake.
- 2. Deploy outriggers, making sure they are firmly in contact with supportive ground; use outrigger pads as required. The tires of the truck should remain in full contact with the ground.
- 3. Inspect the wirerope and other key components of crane (consult owners manual for more information).
- 4. Conduct an operational check of all crane functions.
- 5. Use a test weight of <u>920 lbs</u> in conjunction with the <u>ET12K(X)'s</u> snatch block (weight = <u>23 lb</u>).
- 6. Do NOT allow the weight to be more than 6 inches from the ground at any time during testing this insures that if the truck does become unstable and tip, it will not tip far.
- 7. Rotate the crane to a position between 1 and 2 o'clock (the truck cab is facing 12 o'clock).
- 8. Be sure that the boom is horizontal (0° elevation) with the hydraulic section fully retracted and the manual section fully extended; the boom should begin at a length of <u>11 feet</u>. Note: On the ET12K, testing will be more difficult, because it will require an iterative ("trial and error") approach; please call technical support for more information.
- 9. Use the winch to lift the test weight, keeping it within 6 inches of the ground.
- 10. Extend the boom slowly until the boom reaches full extension (*<u>180 inches</u>*) or until the truck becomes unstable. As you extend, use the winch to keep the weight within 6 inches of the ground.
 - a. If the boom reaches full extension, the $\,\%$ of Rated Capacity is 100% for the tested region.
 - b. If, however, the truck becomes unstable (both tires leave the ground) prior to full extension, record (in inches) the horizontal distance from the center of rotation to the wirerope at this point (e.g. <u>160 inches</u>). This is the Maximum Stable Reach. Determine the % of Rated Capacity using the following formula:

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

- 11. Record the % of Rated Capacity in the appropriate blank on the Crane Stability chart and/or decal.
- 12. Repeat Steps 7-11 for each of the remaining regions (2-3 o'clock, 3-4 o'clock, etc.).

	MFG., INC.	STABILITY TEST	^{DATE} 12-12-11B	section C200
CINCINNATI, OHIO	ET12KX	supersedes 8-15-11A	20906-12	



CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

▲ ET8K(X), ET10KX, ET12K(X)

SAFETY

Before operating this crane, read and understand these instructions, the 850711 Crane Safety and Hazards Information Sheet, and review all safety & instruction labels on the crane.

CRANE INSPECTION

Before operating this crane, inspect for wear, damage, or 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 any problems before using the crane.

CAPACITY

Before operating this crane, review the capacity diagrams on the 891014 Capacity Information Sheet as well as 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 shown by a gravity arrow.

SNATCH BLOCK

If the load exceeds 1600 lbs. for the ET8K(X) and ET10K(X) or 1750 lbs. for the ET12K(X) or if reduced winching speed for better control of smaller loads is required, use the snatch block to rig the crane for two part line operation. Refer to drawing 21701, 17450 or 21575 for this.

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 four switches both ways 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 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 to unhook it from 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.

FNTURO			DATE 8-2-06E	SECTION	
ENIONO	MFG., INC. CINCINNATI, OHIO	ET8/10/12K(X)	SUPERCEDES	900530a)

CONTROL FUNCTIONS

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

<u>POWER ELEVATION</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 lowering rate.

<u>POWER EXTENSION</u> - "Out" and "In" extend and retract boom 4 ft. under power. A pilot operated check valve on the boom prevents the boom retracting without hydraulic power or if a hose should break. A flow control valve controls retract rate under load.

<u>POWER ROTATION</u> - "L" & "R" control direction of rotation. The ET8KX, ET10KX or ET12KX can be rotated continuously thru 360 degrees or more. There are no internal restrictions on the number of rotations in any direction.

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

- a. "Winch Up" has priority over "Boom Up", "Boom Out & In", and "Rotation"
- b. "Boom Up" has priority over "Boom Out & In", and "Rotation".
- c. "Boom Out & In" have priority over "Rotation".
- d. "Boom Down" and "Winch Down" can be operated with any function.

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 and the motor brushes and commutators.

When operating "Winch Up", "Boom Down" or "Boom Out" always maintain clearance between the boom head and the snatch block or hook.

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

VENTURO		INSTALLATION DWG	DATE 5-27-06D	section C200
	CINCINNATI, OHIO	ET8/10/12K(X)	supercedes 5-26-06C	900530b

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' to 14' and the 7' to 15' boom 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.

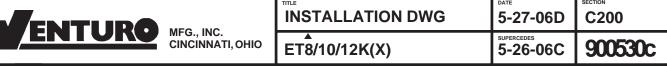
TRUCK SETUP & OUTRIGGERS

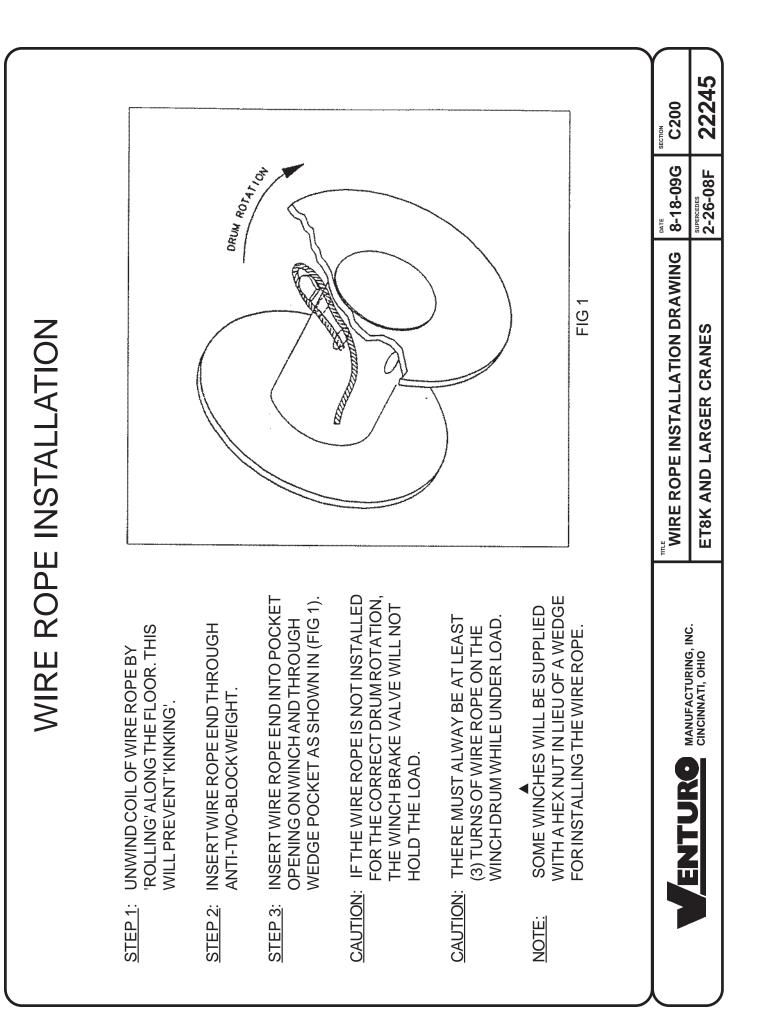
- 1. The truck should be parked on ground that is as level and as firm as possible when using the crane.
- 2. The center of the crane should be positioned close enough to the job so that it can be operated at a reach that puts the load within the rated capacity of the crane.
- 3. Set the vehicle parking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

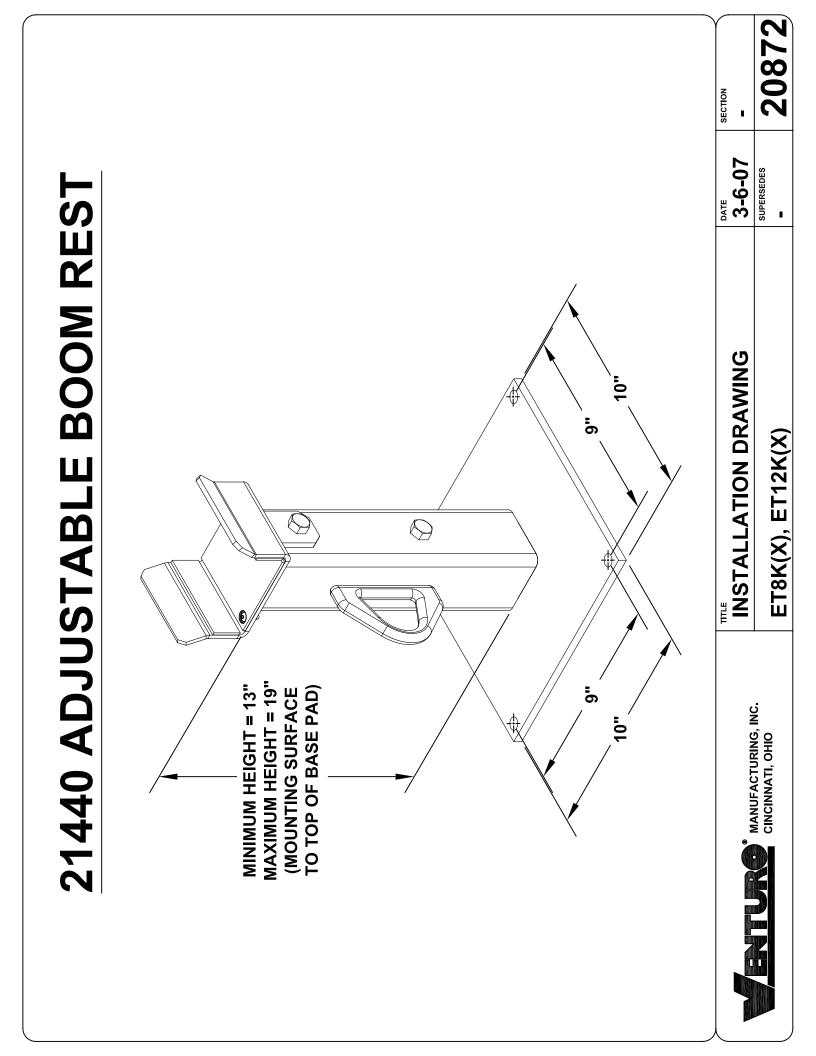
PREPARATION FOR TRAVEL

- 1. Return the outriggers to the stowed position. Install and secure all pins.
- 2. Stow the crane boom in the boom support.
- 3. Hook the winch line to a tie down point on the body or pedestal and apply tension.
- 4. TURN OFF THE MASTER DISCONNECT SWITCH.
- 5. Unplug the control pendant and store in a body compartment or the cab.

			VARI	NING		
	plugge Discor when (or rec not in	ed from nnect (p the crai ceiver) (use ma	oower) switch n ne is not in use connected and	et and the Master nust be turned "of Leaving the per the power on whe perous, unintention	ff" ndant en	
\langle						J
			TITLE		DATE	SECTION







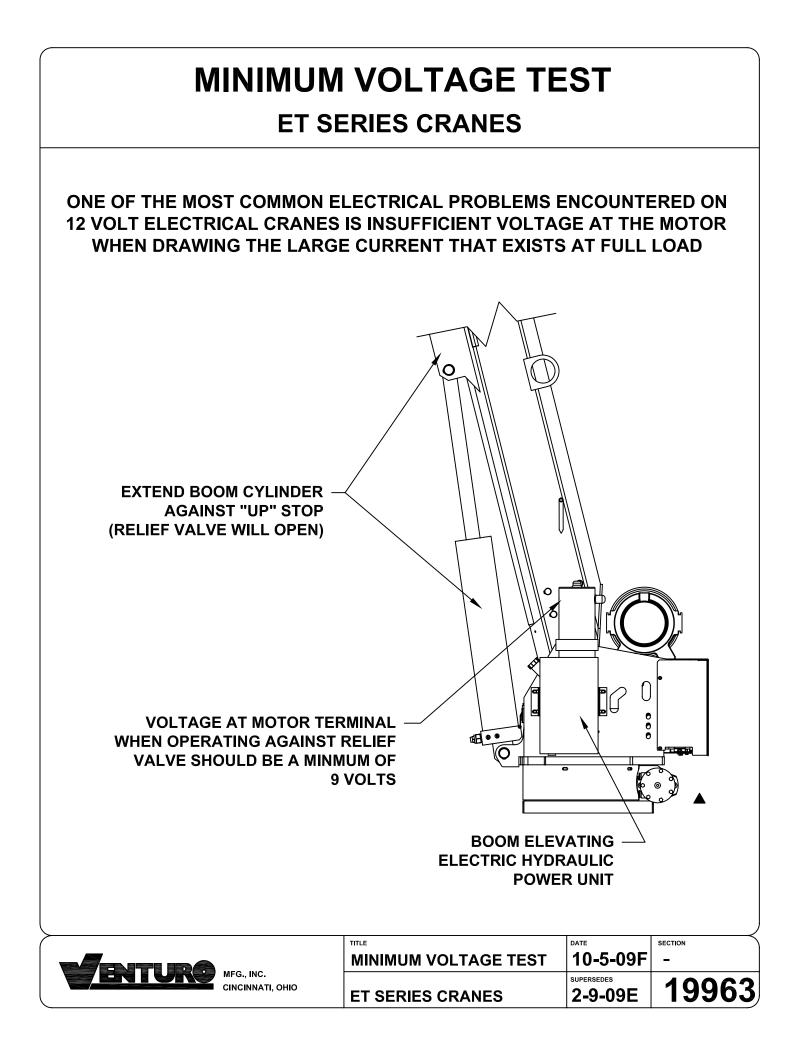
MAINTENANCE

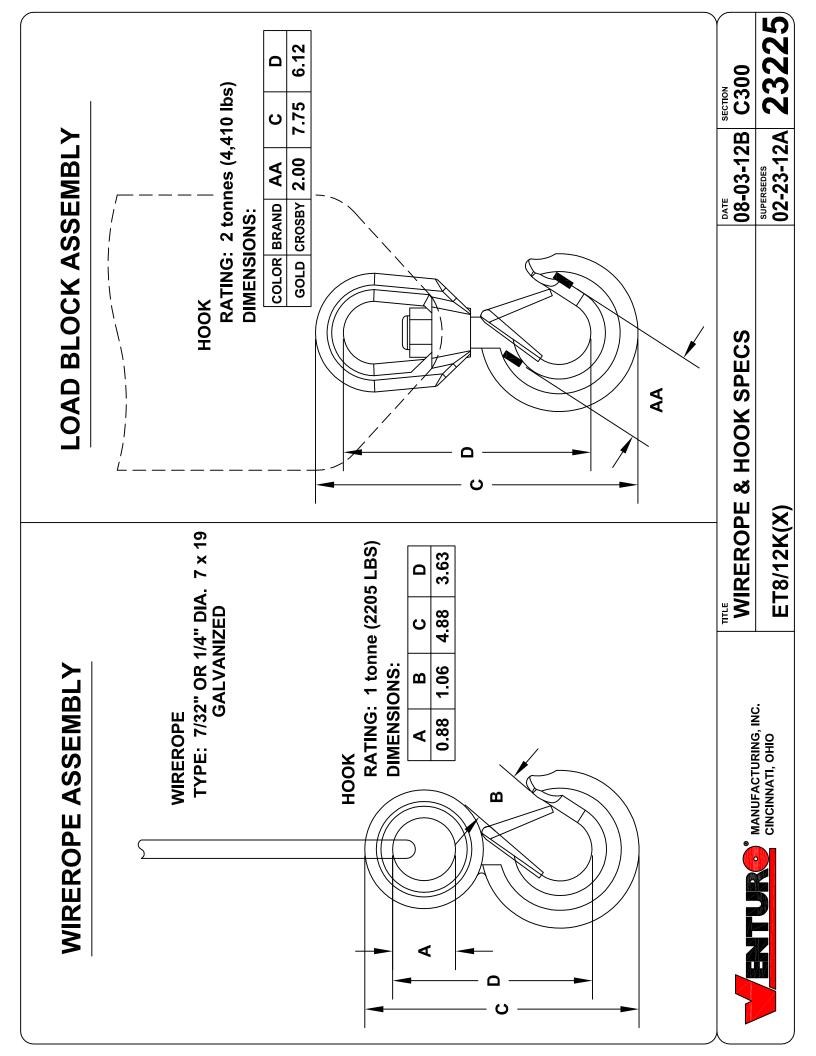
&

SERVICE



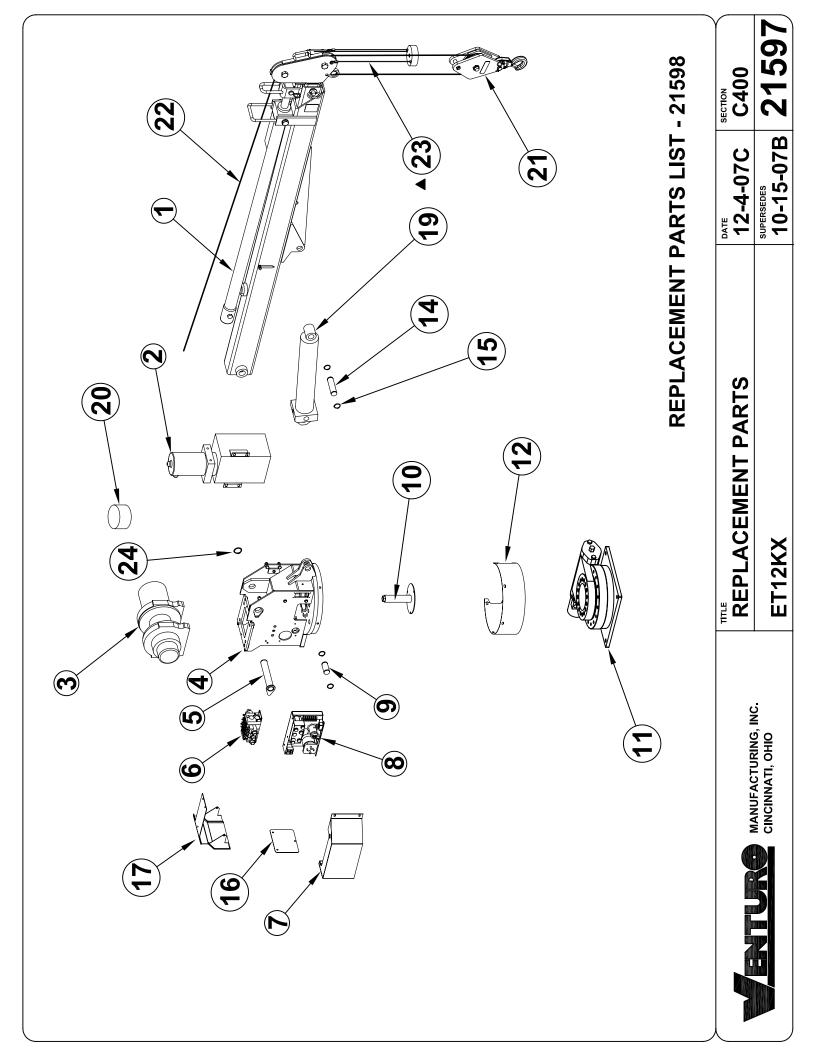
L OR LIGH	Service Interval	Time of Truck Service		Time of Truck Service	DATE SECTION 5-7-08D - SUPERSEDES 21306 7-27-06C 21306
A A A A A A A A A A A A A A	Note	Use Lithium Based Grease $\hat{\Delta}$ To align hole w/ fitting, line up grease decals on lower cover and base gusset.	Use Dextron ATF for Use ISO Viscosity Ambient Grade 68 or Equivalent Temperatures for Ambient Between -22° F and Temperatures Between 30° F	Remove Cover & Use Chassis Grease Rope should be free of kinks and fraying	LUBRICATION & MAINTENANCE CHART ET8K(X) - ET12K(X) - ET18K(X)
	tion	A Grease fitting With Pressure Grease Gun	B Fill Oil Reservoir to Oil Level with Boom Down and Boom In. ▲	C Lubricate Gear Teeth D Check Wire Rope and Hook	MANUFACTURING, INC. CINCINNATI, OHIO ET8K



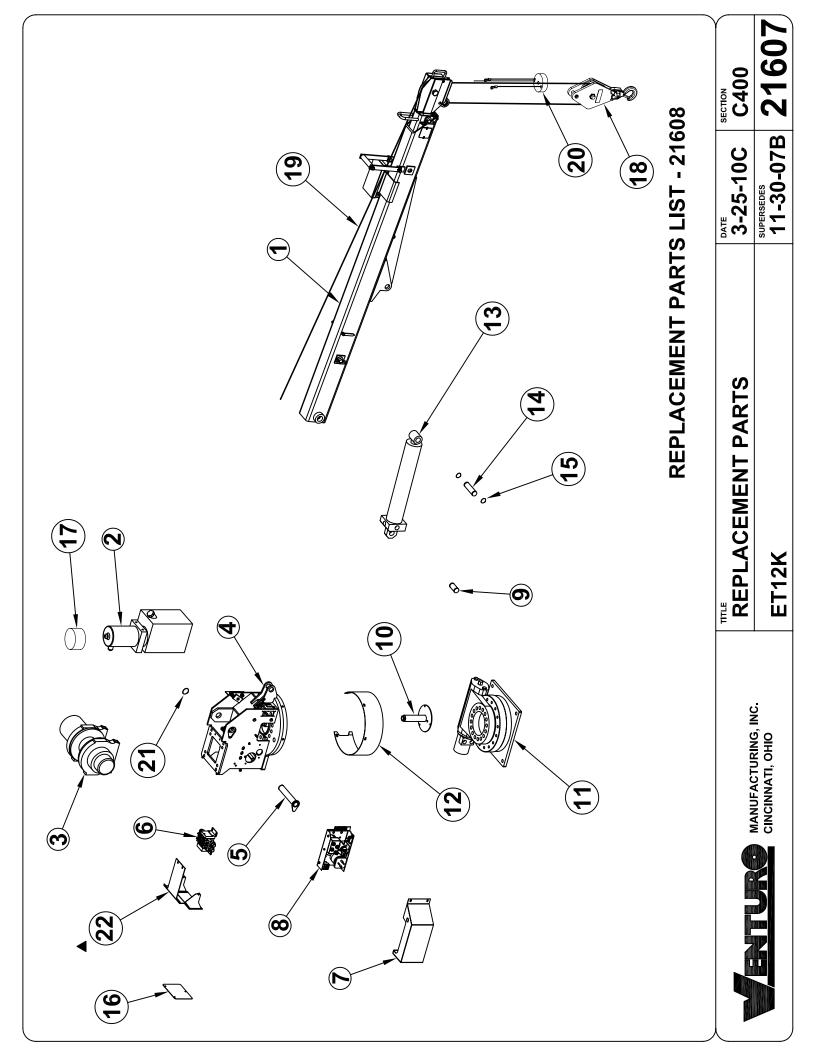


PARTS





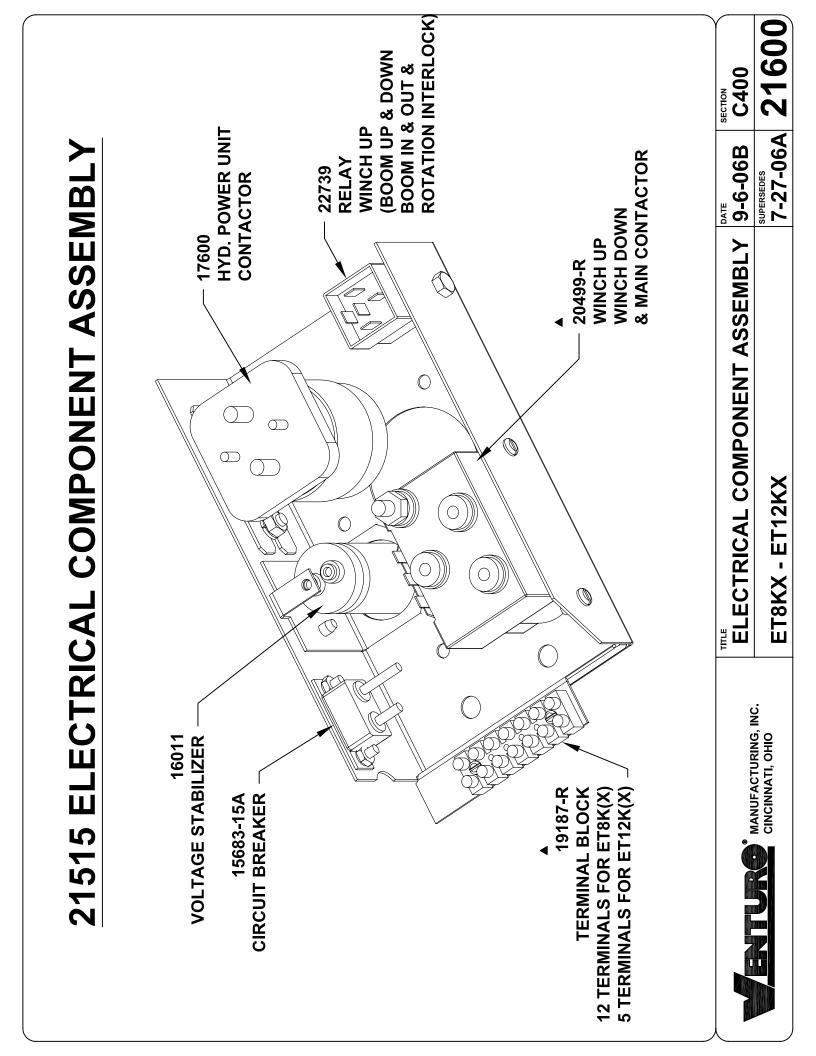
ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION		
- с к 4 и о r 8 0 ^с	21535 20873 21556 21616 21614 21614 21515 21515 21506 21506	BOOM FINAL ASSEMBLY - ET12KX HYDRAULIC POWER UNIT WINCH UPPER HOUSING ASSEMBLY PIVOT PIN - MAIN BOOM PIVOT MANIFOLD W/ VAL VES & COILS CRANE COVER WELDED ASSEMBLY ELECTRICAL COMPONENT ASSEMBLY PIN - ELEVATION CYLINDER BASE SWIVEL PIGTAIL CANDLESTICK ASSEMBLY					
11 12 13 20 13 14 13 13 13 13 13 13 13 13 13 13 13 13 13	21735 21185 - 21547 !SRNG-113 21624 21638 - 21543 16143-1 *	ROTATIONDRIVESYSTEM ROTATIONGEAR GUARD - BOOMPIVOT PIN SNAP RING 1-1/8" PLATE, COVER REAR REAR COVER ELEVATION CYLINDER MOTOR COVER					
21 22 25 26 28 29 29	20670 21639 19377-1 ISRNG-125 - - -	SWIVEL SNATCH BLOCK WIRE ROPE ASSEMBLY - 1/4" X 65FT ANTI 2 BLOCK WEIGHT ASSEMBLY SNAP RING - 1-1/4" - - -					
		REPLACEMENT PARTS DWG REF 21597 ▲ *REPLACEMENT PARTS SEND 16143-3					
		FNTURO MANUFACTURING, INC.		IENT PARTS		ыте 5-7-08D	SECTION C400
			ET12KX-7/15	5		11-30-07C	21598

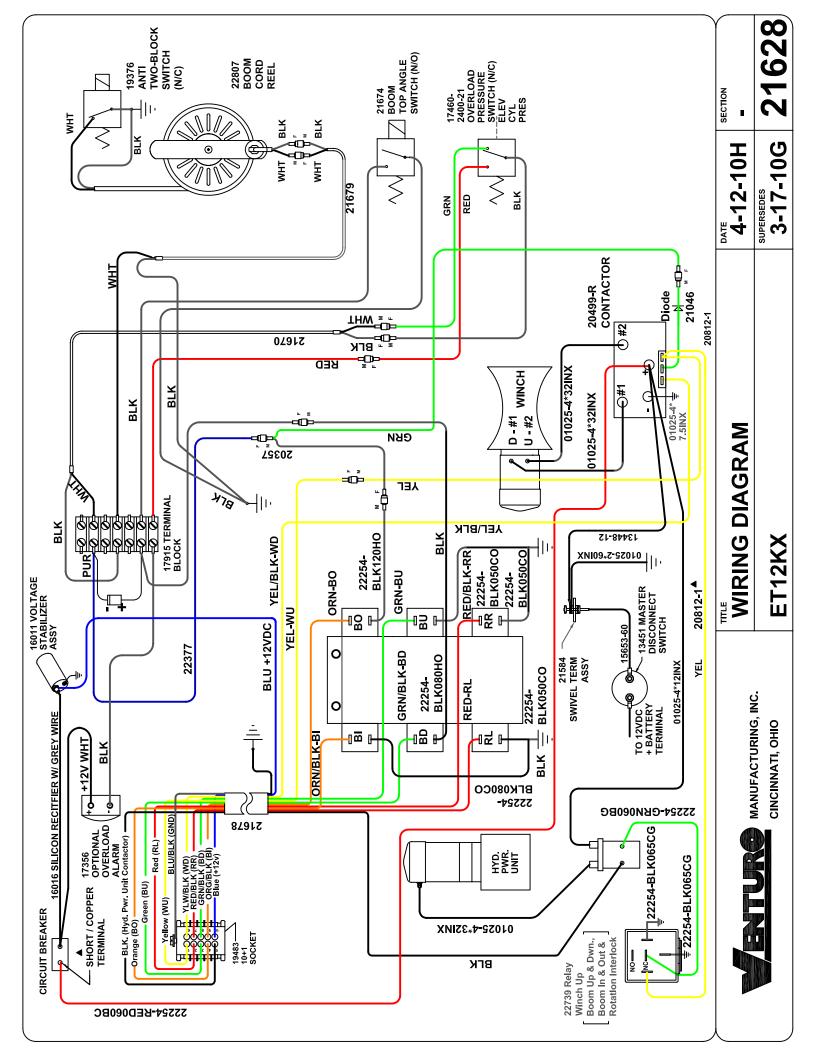


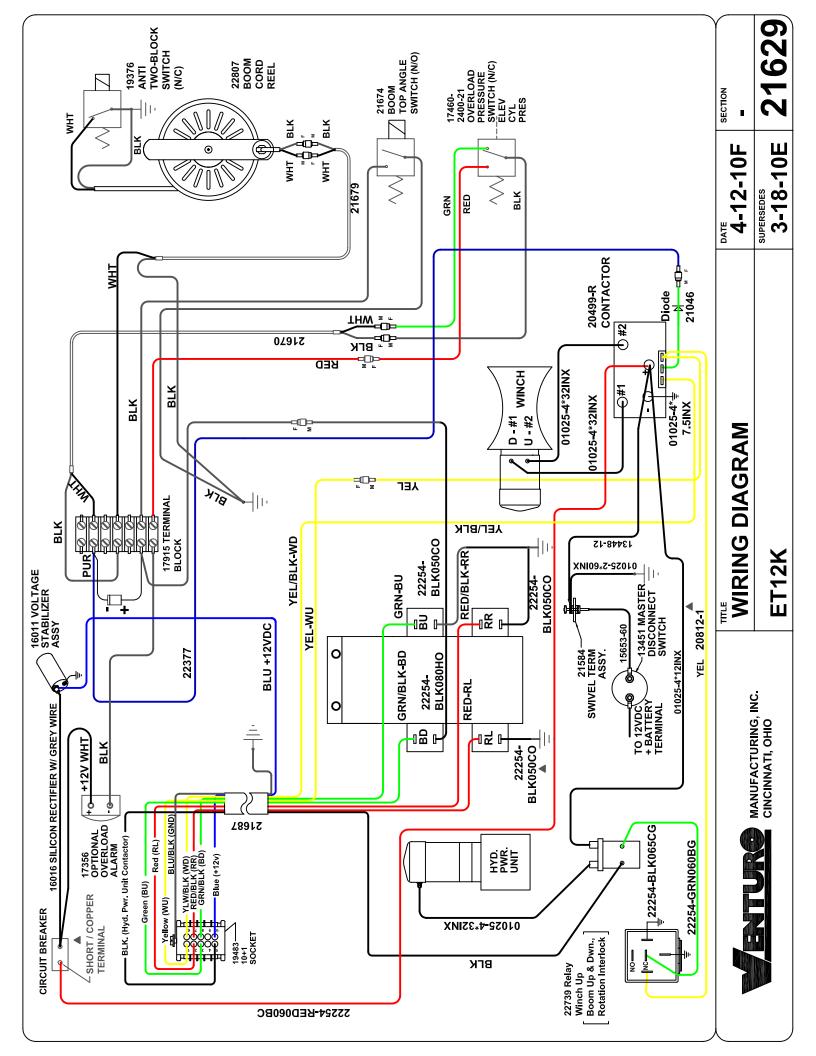
ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION		
- ска 4 к к к к с с с с с с с с с с с с с с с	21548 20873 21556 21616 21615 21615 21615 21515 21516 21506	BOOM FINAL ASSEMBLY - ET12K HYDRAULIC POWER UNIT WINCH UPPER HOUSING ASSEMBLY PIVOT PIN - MAIN BOOM PIVOT MANIFOLD W/ VALVES & COILS ELECTRICAL PANEL SHIELD ELECTRICAL COMPONENT ASSEMBLY PIN - ELEVATION CYLINDER BASE SWIVEL PIGTAIL CANDL ESTICK ASSEMBLY					
2 0 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0	21735 21785 21745 21547 ISRNG-113 21624 16143-1 * 20670 21639 19377-1	ROTATIONDRIVE SYSTEM ROTATIONGEAR GUARD ELEVATIONCYLINDER BOOMPIVOT PIN SNAP RING 1-1/8" PLATE, COVER REAR MOTOR COVER SWIVEL SNATCH BLOCK WIRE ROPE ASSEMBLY - 1/4" X 65FT ANT12 BLOCK WEIGHT ASSEMBLY					
21 22 75 75 77 79 80 80	ISRNG-125 21638 - - - - -	SNAPRING 1-1/4" REARCOVER - - - -					
		REPLACEMENT PARTS DWG REF 21607 ▲ *REPLACEMENTPARTS SEND16143-3					
		ENTLIRG MANUFACTURING, INC.	™LE REPLACEM	ERPLACEMENT PARTS		^{рате} 3-25-10Е	SECTION C400
			ET12K-7/15			SUPERCEDES 1-25-10D	21608

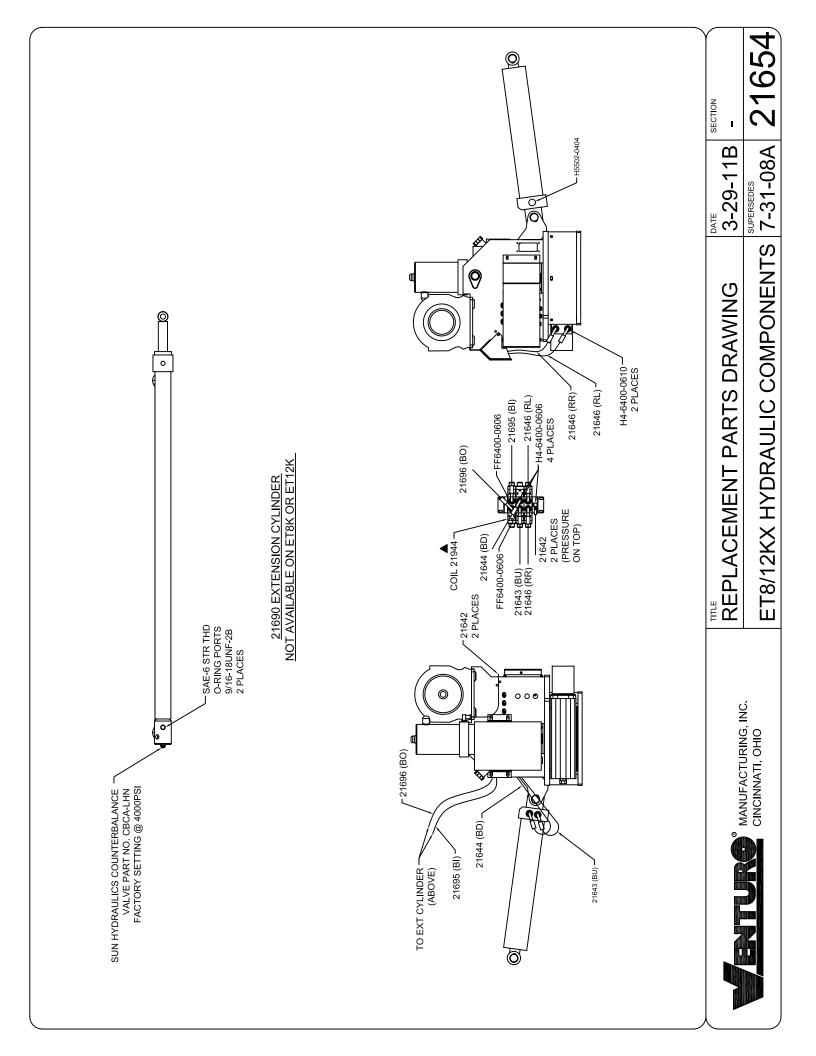
FASTENER LIST FOR ET12KX

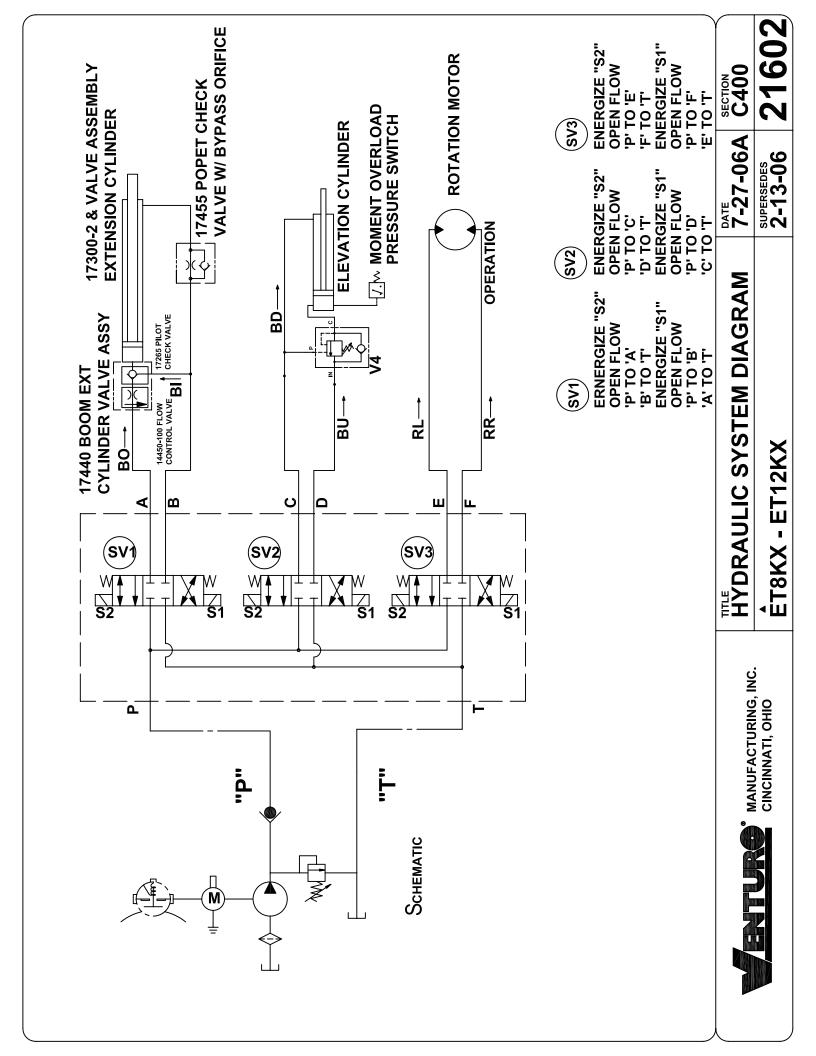
TAOTENEN					
PART NUMBER	DESCRIPTION	QTY	LOCATION/FUNC	TION	
!HHCS03118063	HEX HEAD CAP SCREW 5/16-1	18 X 5/8" 1	GROUNDSTRAPC	NCANDLESTICK	
!LWSH-031	LOCK WASHER - 5/16	1	GROUNDSTRAPC		
ILWSH-031-STAR	STAR LOCKWASHER - 5/16 EX		GROUNDSTRAPC		
!HHCS02520063-F	HHCS 1/4-20 X 5/8" - SELF TAP		CANDLESTICKTO	BASE	
!ZERK01327NPT	STRAIGHT GREASE FITTING	1	SLEWINGRING		
!SHCS03816050	SOCKET HEAD CAP SCREW 3		SLEWINGRING		
!HHCS06311350 !LWSH-063	HEX HEAD CAP SCREW 5/8-17 LOCK WASHER - 5/8"	1 X 3-1/2" 15 15			10150F1/LB)
!FWSH-038	FLAT WASHER - 3/8"	4	HYDRAULICPOWE		
!LWSH-038	LOCK WASHER - 3/8"	4	HYDRAULICPOWE	-	
!HNUT-03816	HEX NUT - 3/8-16	4	HYDRAULICPOWE		
!LWSH-031-STAR	STAR LOCKWASHER - 5/16 EX	TERNAL 2	HOUSINGGROUND	DS	
!PHCS#0832050	PAN HEAD SCREW#8-32X1/2"	4	PENDANTPLUGC/	ASE	
!LWSH-#08	LOCK WASHER - #8	4	PENDANTPLUGC	-	
!PHCS#1032038	PAN HEAD SCREW#10-32 X 3/		TOPPOSITIONSWI		
!LWSH-#10	LOCKWASHER - #10	2	TOPPOSITIONSWI	-	
!HNUT-#10-32	HEX NUT - #10-32	2	TOPPOSITIONSWI		
UNUT-02520		5	GUARD RING ON H		
!HHCS02520075 !FWSH-025	HEX HEAD CAP SCREW 1/4-20 FLAT WASHER 1/4") X 3/4" 5 5	LOWERRINGGUA		
!FWSH-025	LOCK WASHER 1/4"	5	LOWERRINGGUA		
!HHCS02520063-F	HHCS 1/4-20 X 5/8" - SELF TAP		HOUSINGSIDECO		
!HHCS03118075-F	HHCS 5/16-18 X 3/4" - SELF TAF		UPPER REAR HOU		
!HHCS02520050-F	HHCS 1/4-20 X 1/2" - SELF TAP	-	LOWER REAR HOL		
!HHCS02520063-F	HHCS 1/4-20 X 5/8" - SELF TAP		ELECTRICALPANE	L	
!LWSH-025-STAR	STAR LOCKWASHER - 1/4 EXT		ELECTRICALPANE		
14775	RUBBER GROMET 1/2" ID	3	HOUSINGPUMPSI	DE	
14883	RUBBER GROMET 3/8" ID	2	HOUSINGBOOMS		
!HNUT-02520	HEX NUT - 1/4-20	2	WINCHTERMINAL		
!HHCS03118075-F	HHCS 5/16-18 X 3/4"	2	VALVE BLOCK GR		
!SRNG-125	EXTERNAL SNAP RING 1-1/4"	1		PIN	
HHCS02500075	HEX HEAD CAP SCREW - 1/4-2	20 X 3/4" 2 2	VALVE BLOCK		
!LWSH-025 !FNUT-02520	LOCK WASHER - 1/4" FLANGE NUT - 1/4-20	2	VALVE BLOCK		
!HHCS02520075	HEX HEAD CAP SCREW 1/4-20			ISWITCHBRACKET	-
!LWSH-025	LOCKWASHER - 1/4"	1		ISWITCHBRACKET	
!FNUT-02520	FLANGE NUT - 1/4-20	2		ISWITCHBRACKET	
25019	HOLE PLUG - 7/8 DIA.	1	HOUSINGSIDECC		
25019	HOLE PLUG - 7/8 DIA.	1	HOUSING BASE - C	GREASEHOLE	
		İ			
				DATE	SECTION
		KEPL. FAS	TENERS LIST	5-8-08B	C400
V ENTU	MFG., INC.			SUPERCEDES	
	CINCINNATI, OHIO	ET12KX		5-11-07A	21599



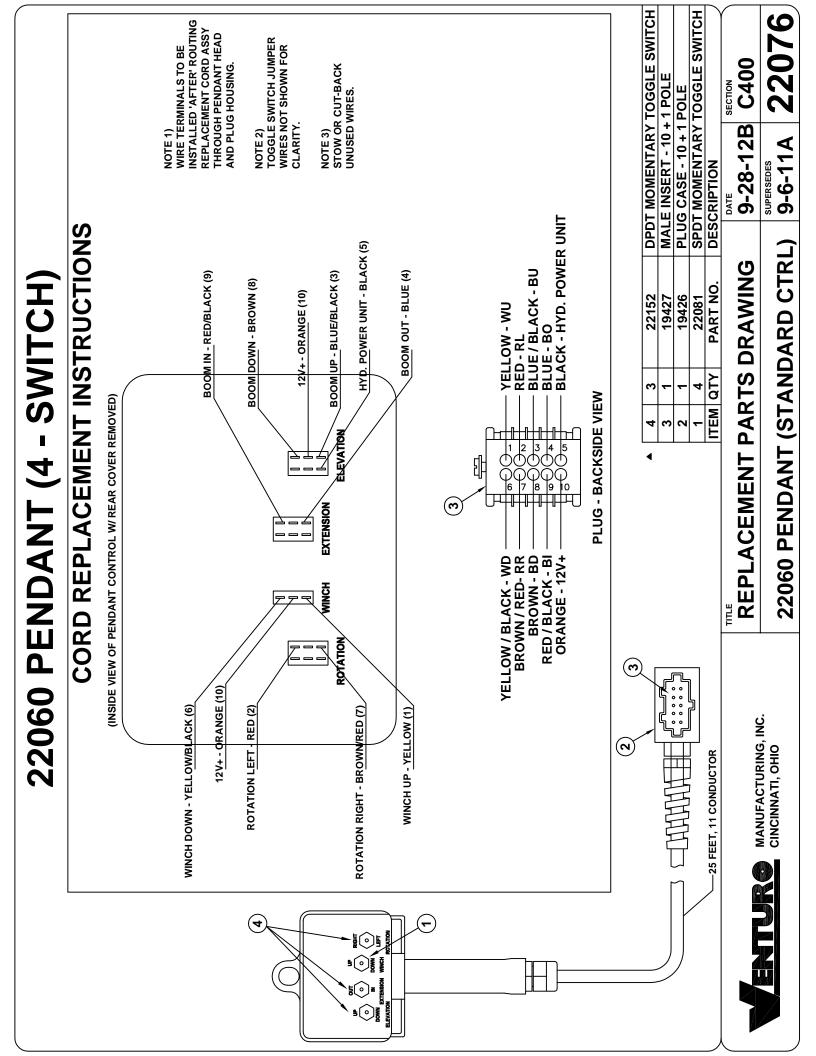


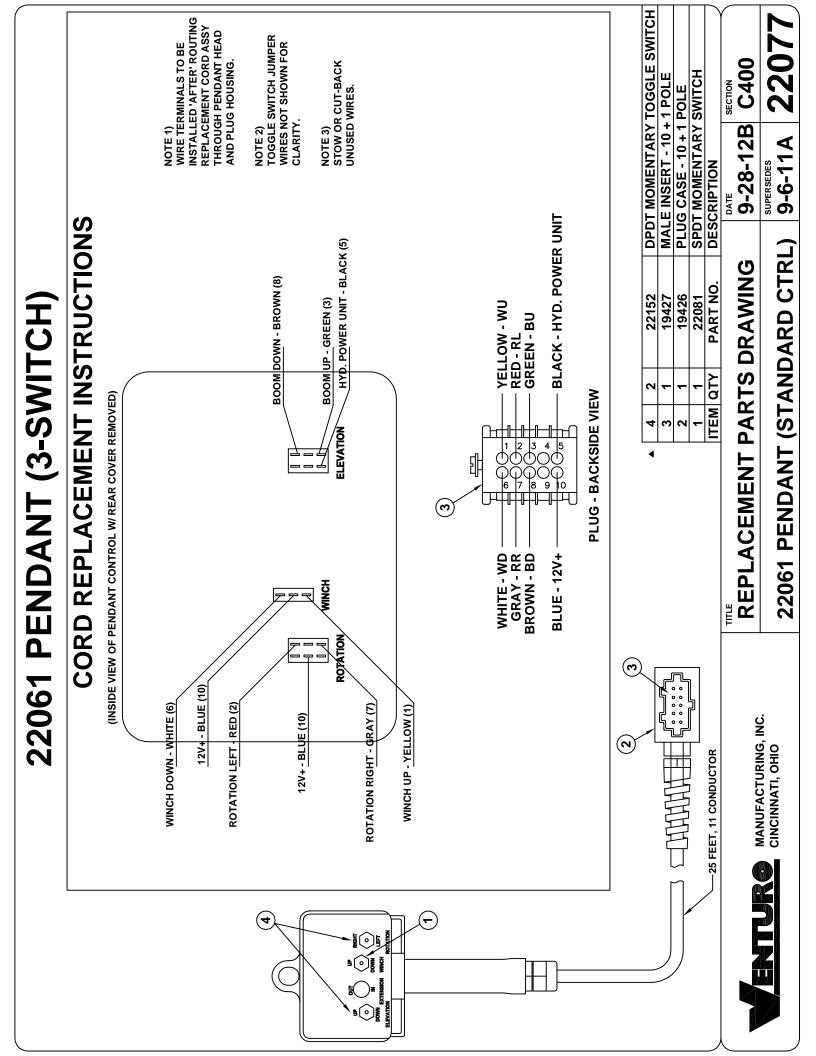


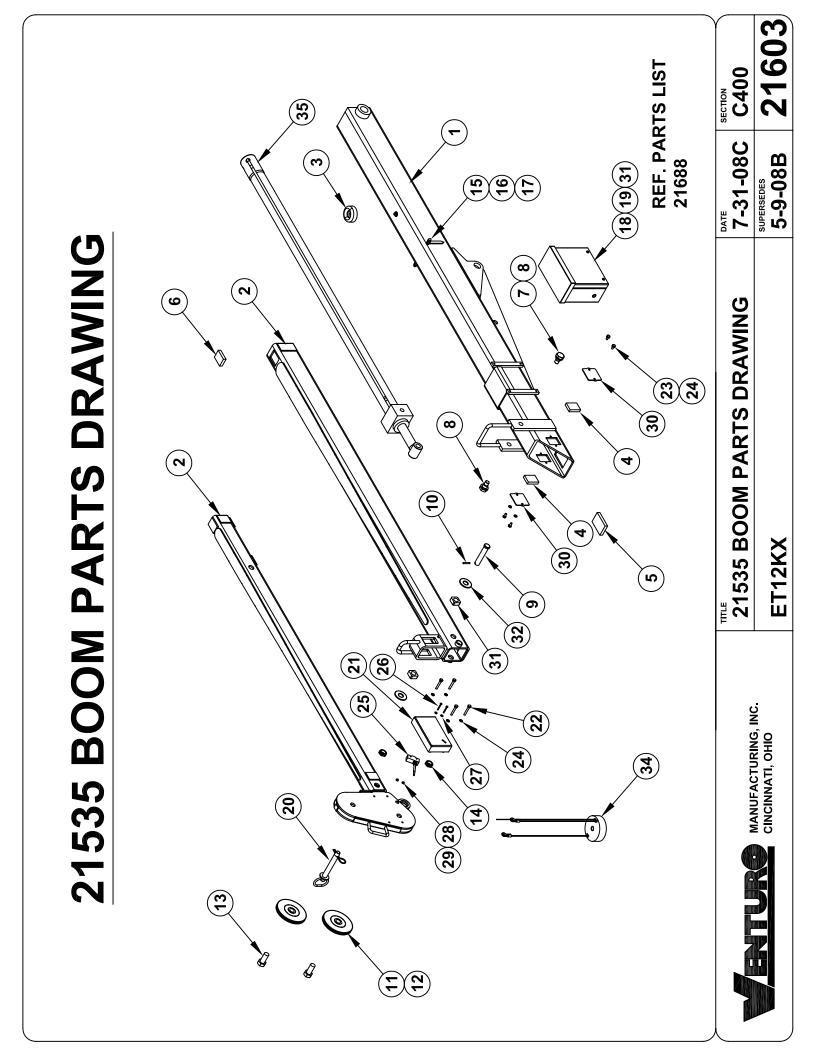




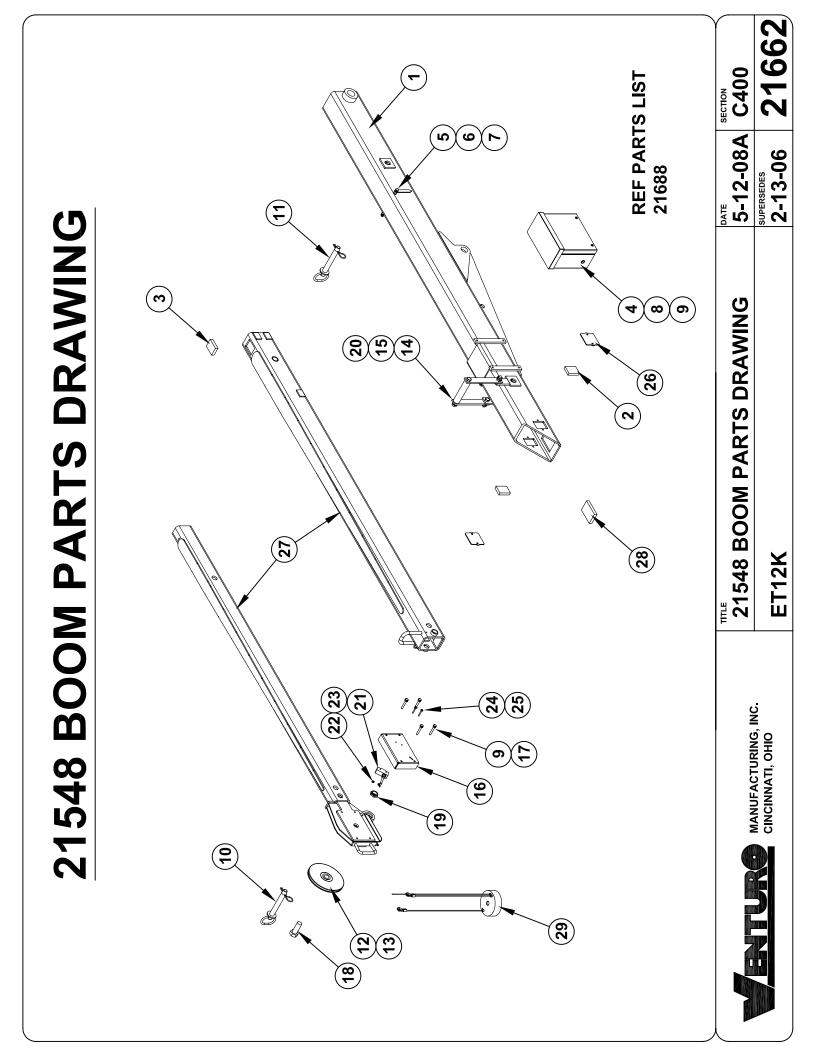
2′	158	4 SWIV		RMINAL ASSY		
		13448->	(X SWIVEL PIC	STAIL		
ITEM	QTY	PART NO.	C	DESCRIPTION	$\hat{\boldsymbol{\lambda}}$	\bigcirc
1	1	15653-60	PIGTAIL & ST	UD ASSY		
*2	3	16771-1	FIBER WASH		(6)	
			1/2" I.D. x 15/	16" O.D. x 1/16" THK		(\bigcirc)
*3	1	13410	INSULATING		5	
4	1	21506	CANDLESTIC	K ((\bigcirc)
*5	1	16771-2	FIBER WASH	ER		
				/4" O.D. x 1/16" THK		
*6	1	16770*7	BRASS WAS			
				/4" O.D. x 5/64" THK	E	
*7	1	19800		NUT - 1/2"-13NC - MODIFIED		
*8	1	16770*11	TEFLON WAS			\backslash
		40770+40		" O.D. x 1/32" THK		
*9	1	16770*10	BRASS WAS		0	
*10	1	LC-063HJ-1	SPRING	16" O.D. x 1/32" THK		THE ASSAULT
×10	1	LC-003HJ-1		3" W x 5/8" F.L.		
*11	1	!JNUT-05013N		RT-JAMNUT - 1/2"-13	3	\sim
*12	1	12534-4	MACHINERY		-	
	•			" O.D. x 14 GA THK	(2)	$\widehat{\mathbf{O}}$
*13	1	LOCTITE-24205	LOCTITE CA	PSULE GRADE 242 BLUE	12	
*14	1	21584	REPL. PARTS	6 DWG (THIS PAGE)	(12)	
٨				<u>1585</u> SERVICE PARTS KIT EABLE WITH 16772 (EXCEPT*1	4)	
		E WITH LOCTITE		,		
Ат	OROLI	E TO 30 FT-LBS		EN SET SCREW		L
<u>4</u> T	IGHTE		READ IS VISI	BLE ABOVE THE NUT & ENSU	RE	6
	7	-			DATE 7-27-06A	SECTION
	EN	TURO MFG.			SUPERSEDES	
		CINC	INNATI, OHIO 🔺	ET8K(X), ET12K(X) -	2-17-06	21584



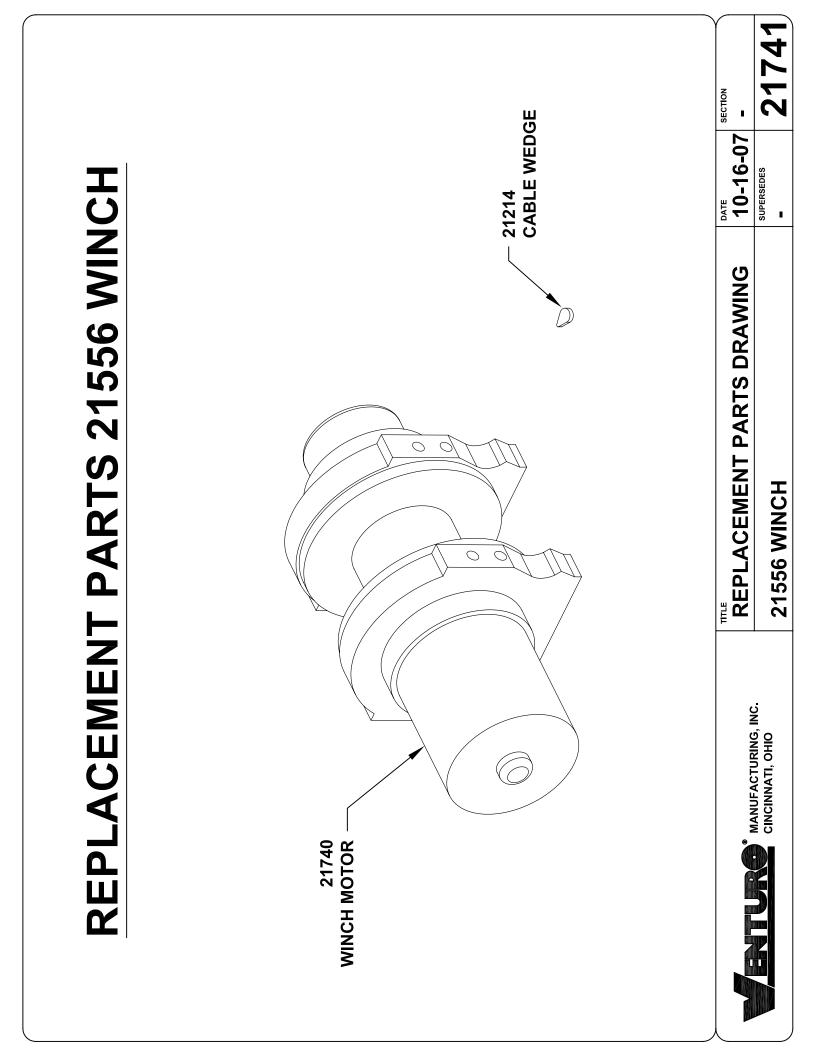


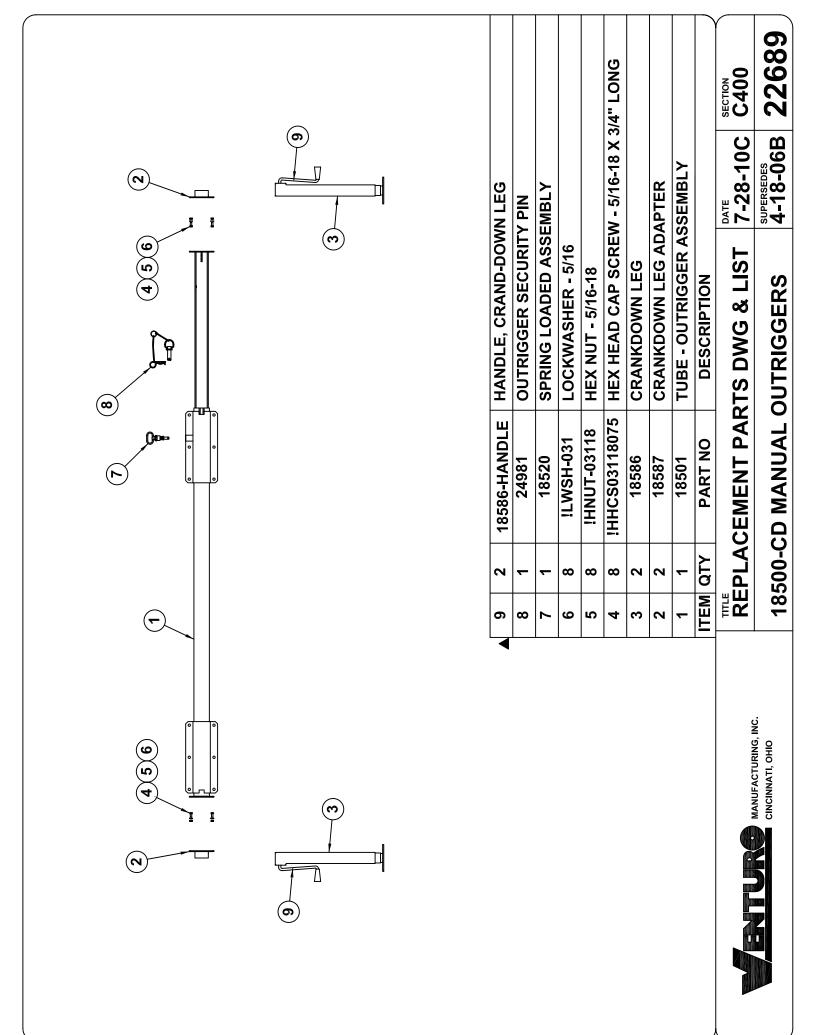


21688	5-9-08	12KX	ET1	, OHIO	CINCINNATI, OHIO
SECTION C400	08A	535 BOOM REPLACEMENT PARTS LIST	^{™⊾} 215:	URING, INC.	MANUFACTURING, INC.
		ART NUMBER DESCRIPTION	. PA	EXPLODED/Q1Y	ITEM NO. E
DDAWING 21602		21526		-	-
ARTS	REF. PARTS			-	2
			_	-	n
				5	4
			_	-	5
			_	-	6
		75	=	2	7
				2	8
		⊿	-	-	6
		PIN-016125	:RF	-	10
				2	11
				2	12
		17059-4 SHEAVE AXLE		2	13
		ILNUT-07510 LOCKNUT 3/4-10		2	14
		13459-1 BOOM ARROW 3-3/16 LONG		2	15
		22490 SPACER, BOOM ARROW 1/2" O.D.		2	16
		ANUT-025205 ACORN NUT 1/4-20 STAINLESS	IAN	2	17
		22683 ANTI 2 BLOCK CORD REEL ASSEMBLY		-	18
			iSH	4	19
				-	20
		21291 ANTI-TWO-BLOCK HOUSING ASSEMBLY		-	21
		IHCS02520175 HEX HEAD CAP SCREW - 1/4-20 X 1-3/4 LG	HHi	4	22
		IHCS02520050 HEX HEAD CAP SCREW - 1/4-20 X 1/2 LG	HHi	4	23
		ILWSH-025 LOCKWASHER - 1/4		8	24
		19376 ANTI-TWO BLOCK SWITCH		-	25
		PHMS#0632125 PHILLIPS HEAD CAP SCREW 6-32 X 1-14 LG	VHdi	2	26
		IFWSH-#06 FLAT WASHER #06	<u>ш</u> .	2	27
		ILWSH-#06 LOCK WASHER - 6		2	28
		HNUT-#0632 HEX NUT 6-32	H	2	29
		21528 BEARING CAP		2	30
		21734 THRUST ROLLER		2	31
		IFWSH-075 3/4" FLAT WASHER	<u>ц</u> ;	2	32
		ILWSH-031 LOCK WASHER 5/16"		4	33
		19377-1 ANTI-2-BLOCK WEIGHT ASSEMBLY		-	34
		21690 1-7/8 X 48-1/8 DA CYLINDER		-	35



21689	SUPERSEDES		ET12K	CINCINNATI, OHIO	
section C400	ьте 5-12-08	OOM REPLACEMENT PARTS LIST	™LE 21548 BC	MANUFACTURING. INC.	
		DESCRIPTION	PART NUMBER	EXPLODED/QTY.	ITEM NO. EXI
62	21662	PRIMARY BOOM WELDED ASSEMBLY		_	\rightarrow
DRAWING	DR	BOOM BEARING - 1-1/2 X 2 X 7/16	21209	2	2
KEF. PAKIN		BOOM BEARING - 1-1/2 X 2 X 1/2	21538	-	m
		ANTI 2 BLOCK CORD REEL ASSEMBLY	22683		4
		SPACER, BOOM ARROW 1/2" O.D.	22490	2	5
		BOOM ARROW 3-3/16 LONG	13459-1	2	6
		ACORN NUT 1/4-20 STAINLESS	IANUT-02520S	2	7
		HEX HEAD CAP SCREW 1/4-20 X 1/2 LG	IHHCS02520050	4	ω
		LOCKW ASHER - 1/4	iLWSH-025	ω	6
		BOOM PIN - 33/15/12	19258-3	-	10
		BOOM PIN - 73/35/32	19258-2	-	11
		POLY CABLE SHEAVE W/ BUSHING	20537	-	12
		SPACER - 20537 SHEAVE	20536	-	13
		ASS'Y, WIRE ROPE GUIDE	21566	-	14
		HEX HEAD CAP SCREW 7/16-14 X 1-1/4 LG	IHHCS04414125	2	15
		SWITCH BRACKET	21277	-	16
		HEX HEAD CAP SCREW - 1/4-20 X 1-3/4 LG	IHHCS02520175	4	17
		SHEAVE AXLE 3/4 X 2 W / 1" SHANK	17059-6	-	18
		NYLON LOCK-JAMNUT 3/4-10	INUT-07510N	-	19
		NYLON LOCK-JAM NUT - 7/16-14	IJNUT-04414N	4	20
		ANTI-TWO BLOCK SWITCH	19376	-	21
		LOCK WASHER - 6	iLWSH-#06	2	22
		HEX NUT 6-32	!HNUT-#0632	2	23
		PHILLIPS HEAD CAP SCREW 6-32 X 1-14 LG	PHMS#0632125		24
		FLAT WASHER #06	iFWSH-#06	2	25
		BEARING CAP	21528	2	26
	ABLY	Secondary & tertiary boom weld assembly	21685	_	27
		BOOM BEARING - 2 X 3 X 1/2	21208	_	28
		ANTI-2-BLOCK WEIGHT ASSEMBLY	19377-1	_	29





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PART NO.	QTY.	PART NO. QTY. DESCRIPTION
14473-2	2	DECAL, GREASE
17389	2	DECAL, VENTURO - MEDIUM
15401	-	DECAL, UNLAWFUL TO OPERATE
21576	-	DECAL, BOOM CAPACITY ET/HT12K(X) RIGHT
21577	-	DECAL, BOOM CAPACITY ET/HT12K(X) LEFT
21578	2	DECAL, MODEL NAME DECAL
15392	-	DECAL, DANGER ELECTROCUTION HAZARD
15391	-	DECAL, CRANE NOT PASSENGER LIFT
15390	-	DECAL, CAUTION, INSTRUCTIONS
13397	-	DECAL, OIL LEVEL
15398	-	DECAL, UNPLUG PENDANT
21580	-	INST. DWG DECAL PLACEMENT
20174	-	DECAL, GROUND CABLE ATTACH TO TRUCK FRAME
21626	~	MANUAL OVERRIDE - RIGHT
21627	~	MANUAL OVERRIDE - LEFT



KIT	
CAL	
DEC	
587	
213	

PART NO. QTY. DESCRIPTION	73-2 5 DECAL, GREASE	389 2 DECAL, VENTURO - MEDIUM	401 1 DECAL, UNLAWFUL TO OPERATE	576 1 DECAL, BOOM CAPACITY ET/HT12K(X) RIGHT	577 1 DECAL, BOOM CAPACITY ET/HT12K(X) LEFT	579 1 DECAL, MODEL NAME DECAL	392 1 DECAL, DANGER ELECTROCUTION HAZARD	391 1 DECAL, CRANE NOT PASSENGER LIFT	390 1 DECAL, CAUTION, INSTRUCTIONS	397 1 DECAL, OIL LEVEL	398 1 DECAL, UNPLUG PENDANT	580 1 INST. DWG DECAL PLACEMENT	174 1 DECAL, GROUND CABLE ATTACH TO TRUCK FRAME	683 1 MANUAL OVERRIDE DECAL - RIGHT	684 1 MANUAL OVERRIDE DECAL - LEFT	
PART NO.	14473-2	17389	15401	21576	21577	21579	15392	15391	15390	13397	15398	21580	20174	21683	21684	

		рате 5-15-08А С400	SECTION C400
CINCINNATI, OHIO	ET12K	supersedes 2-16-06	21610



🖸 RUGGED. RELIABLE. REAL. 🖸

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. This 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.

WARRANTY CLAIMS

Venturo Manufacturing, Inc. 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 products without the expressed written consent of the manufacturer. Reinstallation 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 again be instructed as to the safe operation at time of delivery. Maintenance, service, operation and safety warning decals are available on request from Venturo Manufacturing, Inc.

VENTURO MANUFACTURING, INC DIVISION OF COLLINS ASSOCIATES, INC 12110 BEST PLACE – CINCINNATI, OHIO 45241 513-772-8448 www.venturo.com

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