INST-32020



VENTURO LOGIC CONTROLS (-K) SYSTEM MANUAL

Included in this manual:

VENTURO LOGIC CONTROLS (VLC-K GEN C)

• Venturo Logic Controls (VLC)[™] system provides safe crane operations, allowing more control of capacities throughout the load operation.





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

VLC-K SYSTEM (GEN C) INST-32020 - 6/26/2025 (Rev: A0)

12-00073_VNT1 WARRANTY PAGE

Dear Venturo VLC Purchaser,

Thank You!

Thank you for your purchase of the Venturo Logic Controls (VLC) Crane. This crane was carefully engineered to provide excellent performance when properly installed, operated and maintained.

Please read all pertinent manuals entirely prior to installing and operating the equipment. Our manuals instruct you how to safely and easily install, set up and operate your crane. Please be sure that you, and any other person who will operate the crane, carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

The information in our manuals relate to the most recent product information available at the time of printing. Review all manuals for proper installation and to familiarize yourself with the crane's features and operations. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

If you have any problems or questions, please call Venco Venturo Industries LLC directly. We want to ensure your complete satisfaction at all times.

Sincerely,

Venco Venturo Industries LLC

Record Product Information

Before installing, setting up and operating your new crane, please locate the serial plate on the crane and record the information provided to the right. This information is helpful when seeking technical support assistance. Typical locations for serial plates are on either side of the mechanism near the main boom pivot. Model:

Serial Number:

Product Registration and Customer Support

Please register your product on our website, www.venturo.com/warranty-policy/.

If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this crane, you can seek help from our expert customer support. Choose from the options below:

- Visit us on the web at www.venturo.com
 - o Download our manuals at www.venturo.com/owner-manuals/
- > Call a Customer Support Representative or Technical Support at (800) 226-2238
- > Locate the nearest Venturo Distributor in your area (800) 226-2238 or info@venturo.com

ENTURO [®] VENCO VENTURO INDUSTRIES CINCINNATI, OHIO			date 11-28-18	SECTION
	CINCINNATI, OHIO	VLC SYSTEM CRANES	SUPERSEDES	30010

GENERAL INFORMATION VLC-K SYSTEM, OWNER'S MANUAL

The Venturo Logic Controls (VLC)[™] system facilitates safe crane operation, allowing more control of load during operation. Features include overload protection, wireless or wired communication, and detailed system information using the following components:

Transmitter - hand-held crane controller with information display

- Part Number: 23908-TX
- Over 20 hours of battery life
- •• 12V Charger: 23908-CHG (Included)
- •• 110V Wall Charger: 23908-ADP (Not Included)
- •• Replacement Battery: 23908-BAT
- Full color graphic OLED display
- [7] 2-way momentary toggle switches and [1] momentary push button
- Emergency stop
- Trigger for proportional control
- Wireless or Wired operation (via 25' CAN Cable)
- 25' CAN Cable: 23908-CAN (Included)
- Magnet for storage
- 900 MHz radio frequency

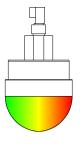
Receiver - receives control signals from and sends information to the transmitter

- Part Number: 23908-RX
- Location: Crane housing
- Potted electronics
- LED diagnostic indicators
- CAN cable connection
- Compact and lightweight



Inclinometer - detects boom angle

- Part Number: 23908-INC
- Location : Underneath boom near Elevation Cylinder and Tri-color LED Warning Light



Tri-Color LED Warning Light - provides information using three colors

- Part No.: 23438
- Location: Underneath boom near Elevation Cylinder and Inclinometer



Pressure Transducers - measure pressure in the elevation cylinder

- Part No.: 23908-PTD
- Location 1: Elevation Cylinder pressure port
- Location 2: Housing interior



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CINCINNATI, OHIO	

	TITLE	DATE	SECTION
S LLC	GENERAL INFORMATION	09-19-23	-
	VLC-K SYSTEM	SUPERSEDES	32001

QUICK START GUIDE VLC-K SYSTEM, OWNER'S MANUAL

OPERATE CRANE

- Turn the crane power ON this will power up the Receiver (RX).
- Push E-STOP in then Rotate E-STOP clockwise to turn ON the transmitter (TX).
- Actuate the HORN toggle switch.
- Select the crane function toggle switch to be actuated.
- Pull the proportional trigger to control the speed of the selected crane function.
- NOTE: Push E-STOP to turn OFF the transmitter and stop the crane.
- NOTE: For safety reasons, the crane function toggle switch must be selected *before* pulling the proportional trigger or the crane will not operate.

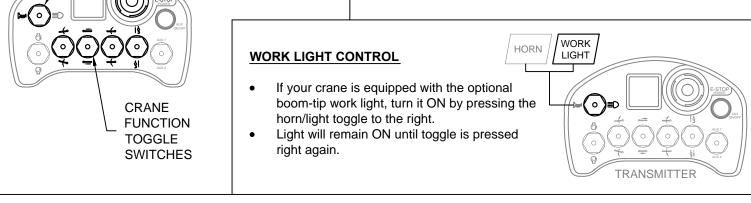
HORN

PAIR (TEACH) BY CAN CABLE

• Plug the CAN cable into the CAN port on both the receiver and transmitter and operate a function on the transmitter for at least 5 seconds. The units will be synchronized at this point.

PAIR (TEACH) BY RF

- 1. Turn the transmitter and receiver off.
- Press and hold the AUX ON/OFF button then release the E-STOP. Keep holding the AUX button for >10 seconds until the menu appears then release.
- 3. Scroll up and down using the AUX 1 and AUX 2 toggles. To select an option press the AUX ON/OFF button.
- 4. Select TEACH MODE from the menu.
- 5. Apply power to the receiver. The screen will display if successful.



BATTERY CHARGING

The battery can be charged by attaching the DC charger to the Transmitter and plugging it into the vehicle's auxiliary power outlet OR by connecting the CAN cable from the receiver module (powered on) to the port on the Transmitter. An optional AC wall charger is also available.

LED indicators on the right side of the transmitter indicate the status of the charger:

E-STOP

- RED charging
- GREEN fully charged

NOTE: When charging, batteries will reach 90-95% charge before switching to <u>slow charge</u>. Green LED will only display once batteries reach 100%

SLEEP TIME

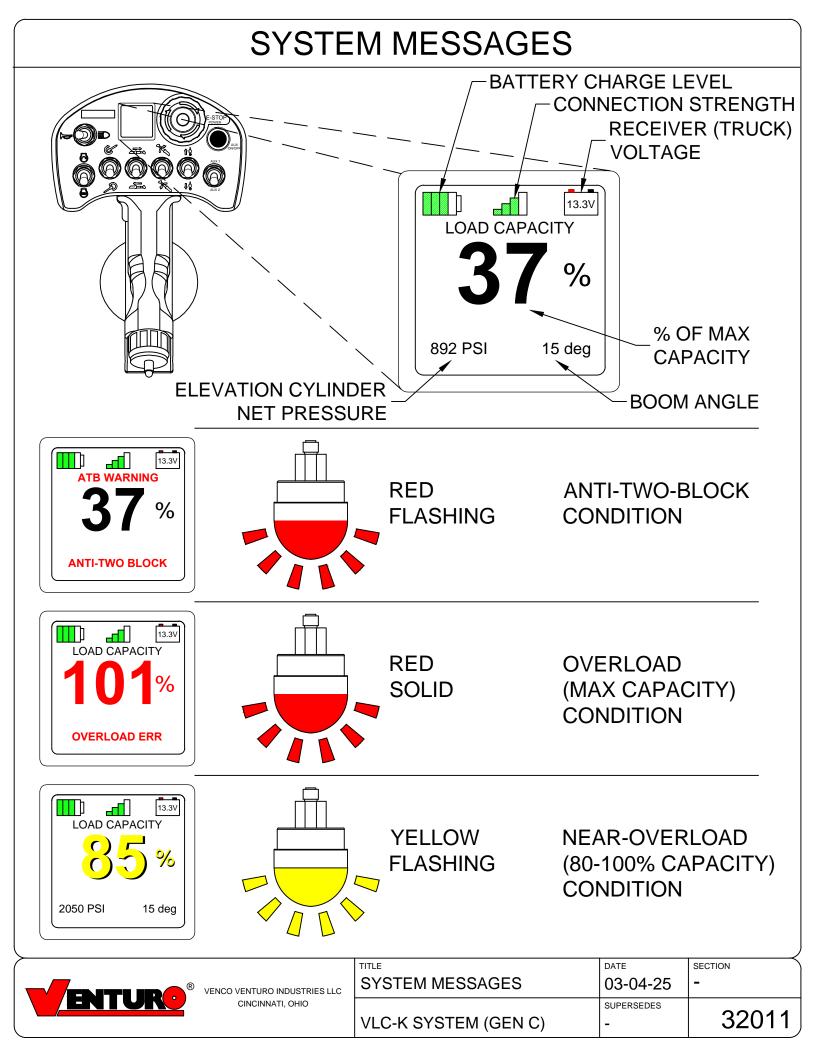
To save battery life, the transmitter will turn off after 15 minutes if the receiver is off. Press (Push IN) and release (Rotate Clockwise) E-STOP to restore transmitter operation.

IMPORTANT BATTERY INFO

The temperature that the transmitter battery is exposed to affects performance and useful life. It is strongly recommended you keep within the following limits:

- Charging and Storing: -4 to +86°F
- Operating: -20 to +122°F

ENTURO VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	^{date} 06-11-25A	SECTION
	SUPERSEDES 07-14-23	32002



OPERATION GUIDE, 1/4

W A R N I N G

- FAILURE TO FOLLOW OPERATING, MAINTENANCE, OR SAFETY INSTRUCTIONS CAN RESULT IN DEATH OR SERIOUS INJURY.
- VENTURO CRANE OPERATORS MUST CONFORM TO QUALIFICATIONS SPECIFIED IN ANSI B30.5 - CHAPTER 5-3 OPERATION. TRAINEES OR UNTRAINED PERSONS SHALL BE UNDER THE DIRECT SUPERVISION OF QUALIFIED PERSONS.

NOTE: A copy of this manual is provided with every VLC crane, and shall remain with the crane at all times. The operation section provides guidelines to the safe and proper use of the crane - it is not intended to be used as training material.

! PLEASE READ & UNDERSTAND THE VENTURO CRANE SAFETY MANUAL BEFORE OPERATING THIS EQUIPMENT !

PRE-OPERATION INSPECTION

Before operating the equipment, make sure regular maintenance has been completed, and check the following:

Condition of lifting devices
Switches
Harnesses
Anti-two block for operation
Wire rope
Safety guards

Replace/repair as necessary before operation. Please refer to the VENTURO Safety Manual for the detailed crane checklist.

PLANNING

•

Plan the lift by completely understanding the equipment, the work site, and the load(s) before positioning the vehicle. Below are some helpful suggestions for job site setup:

- Make sure all pre-operation inspections are completed
 - Vehicle positioned on firm level ground as close to the job as possible, or
 - •• Vehicle parked with the grade as close to the job as possible use wheel chocks
 - •• Cross-grade parking will require decreasing load capacity to prevent tipping
- Vehicle positioned in area free from bystanders and overhead obstructions
- Walk around the vehicle and identify any possible areas that may have limited visibility
- Follow OSHA guidelines for barricading the crane's swing radius
- Know where to make pickups, lifts, and turns
- Know where to place the load before it is lifted
- Warn personnel before starting
- Be alert! Do not eat, drink, or use your phone while operating the equipment
- Obey all rules, laws, and regulations

The following section contains instructions regarding the safe operation of VENTURO manufactured telescopic cranes and should be read and completely understood by persons working with or near the crane before putting the unit into operation.

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	CINCINNATI, OHIO	VLC SYSTEM	SUPERSEDES	30006

OPERATION GUIDE, 2/4

! PLEASE READ & UNDERSTAND THE VENTURO CRANE SAFETY MANUAL BEFORE OPERATING THIS EQUIPMENT !

- 1. DISENGAGE DRIVE AXLE / SET PARKING BRAKE
- a. The drive axle must be disengaged and the parking brake must be set before operating any of the equipment.

2. ENGAGE HYDRAULIC POWER SOURCE

- a. Transmission must be in neutral/park
- b. Engage PTO, and allow system to warm up before operating equipment.

3. CHECK SELECTOR VALVE

a. Handle should be in the position where outrigger / stabilizer circuit is selected.

4. POSITION OUTRIGGERS / STABILIZERS

- a. Remove all security pins from each outrigger / stabilizer.
- b. Using the control levers completely extend the rear outriggers out, and the stabilizers down.
- c. Using the control levers completely extend the front outriggers out, and the stabilizers down.



- MAINTAIN SAFE DISTANCE FROM OUTRIGGER / STABILIZER LEGS DURING OPERATION.
- DO NOT RAISE VEHICLE TIRES OFF THE GROUND. CONFIRM OUTRIGGER / STABILIZER LEGS ARE POSITIONED ON FIRM LEVEL GROUND, AND VEHICLE IS AS LEVEL AS POSSIBLE.

5. TURN ON MASTER DISCONNECT SWITCH

- a. Find the mounting bracket inside the compartment underneath the crane.
- b. On the lower right side of the bracket, flip the master switch to 'ON'.

6. CHANGE SELECTOR VALVE

a. Move handle to the position where the crane circuit is selected.

7. POWER UP THE VLC SYSTEM ▲

- a. Disengage the E-STOP.
- b. Actuate the HORN toggle switch.
- c. Check the handheld transmitter's display for home screen.
- d. NOTE: Crane function toggle switch must be selected before pulling proportional trigger or crane will not operate.

ENTURO VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		^{DATE} 06-12-25B	SECTION
	VLC SYSTEM	supersedes 05-09-23A	30007

OPERATION GUIDE, 3/4

! PLEASE READ & UNDERSTAND THE VENTURO CRANE SAFETY MANUAL BEFORE OPERATING THIS EQUIPMENT !

- 8. UNSTOW THE CRANE
- a. Winch down slightly.
- b. Raise the boom so it clears the boom rest and any other obstruction(s).
- c. Rotate the crane to the side of the vehicle so there is enough clearance to perform the next step.
- d. Winch down enough to release the load block from its stowed position.

9. ATTACHING THE LOAD

- a. Determine whether 1-part line or 2-part line lifting will be used, and adjust load block if necessary.
- b. Position the crane so that the load block is directly over the center of the load.
- c. Attach the load to the hook by means of slings or other approved devices.

WARNIN

- NEVER USE ANYTHING LARGER THAN THE HOOK THROAT THAT PREVENTS SAFETY LATCH FROM CLOSING.
- DO NOT WRAP WIRE ROPE AROUND LOAD.
- NEVER EXCEED MANUFACTURER'S CAPACITY CHARTS AND RATINGS.

d. Maintain a minimum of 5 full wraps of wire rope on the winch drum at all times.

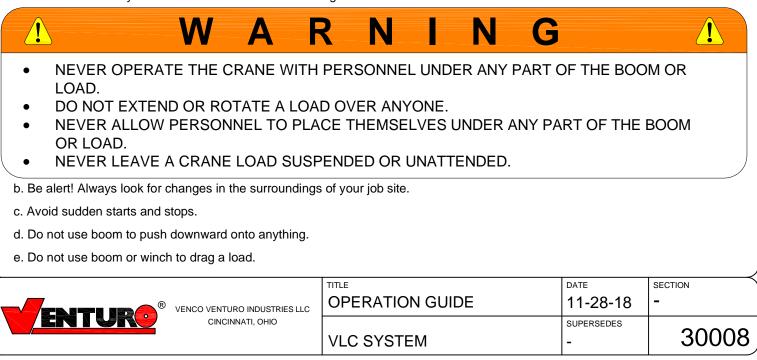
10. LIFTING THE LOAD

a. Lift the load slightly off the ground to check the safety of the cargo.

! DO NOT ATTEMPT TO LIFT FIXED LOADS !

11. MOVING THE LOAD

a. Ensure the stability of the crane and load before moving the load.



OPERATION GUIDE, 4/4

! PLEASE READ & UNDERSTAND THE VENTURO CRANE SAFETY MANUAL BEFORE OPERATING THIS EQUIPMENT !

12. STOW THE CRANE

- a. Completely retract the boom extensions.
- b. Rotate crane to a position that allows you access to the boom tip.
- c. Winch up to bring load block within proper distance of stow hook.
- d. Lower boom to where load block is within comfortable reach.
- e. Hook load block to stow hook under the main boom.

WARNING

- MAINTAIN CONTROL OF LOAD BLOCK TO AVOID PERSONAL INJURY OR DAMAGE TO EQUIPMENT.
- NEVER USE THE STOW HOOK FOR ANYTHING OTHER THAN STOWING THE LOAD BLOCK.

f. Slowly winch up to remove some of the slack leading to the load block. **Do Not Tighten Wire Rope & Avoid activating the Anti-Two System.**

g. Raise the boom so it clears the boom rest and any other obstruction(s).

h. Rotate the crane to where the center of the boom is directly over the center of the boom rest. *Maintain <u>some</u> slack in the wire rope while lowering the boom into the boom rest to avoid over tightening & damaging the wire rope.*

i. Gradually lower the boom until it rests gently onto the cradle of the boom rest. Stop Boom Down once contact is made with the boom rest to avoid damaging the service body.

- 13. POWER DOWN THE CRANE
- a. Hit the E-STOP button on the transmitter.
- b. Charge and stow transmitter.
- c. Locate the mounting bracket inside the compartment underneath the crane.
- d. On the lower right side of the bracket, flip the master switch to 'OFF'.

14. STOW OUTRIGGERS / STABILIZERS

- a. Change selector valve handle to the position where outrigger / stabilizer circuit is selected.
- b. Using the control levers (locations may vary), completely retract the rear outriggers / stabilizers.
- d. Using the control levers (locations may vary), completely retract the front outriggers / stabilizers.
- e. Reattach all security pins

15. DISENGAGE HYDRAULIC POWER SOURCE / PARKING BRAKE

- a. Disengage PTO.
- b. Release parking brake.



• BEFORE MOVING THE VEHICLE, DISSIPATE ALL OTHER PERTINENT POWER SOURCES.

ENTURO [®] VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		^{DATE} 05-09-23B	SECTION
	VLC SYSTEM	SUPERSEDES 12-04-20A	30009

VLC GATE - OVERVIEW

- The VLC system's on-board web portal (GATE) provides access to Diagnostics, Histogram (error reporting), and User Settings.
- GATE is accessible using a web browser on your phone, tablet, or personal computer.
- •• Google Chrome is recommended.

ACCESSING GATE:

- 1. Make sure all Venturo cranes other than the one you are programming are turned OFF.
- 2. Cycle (turn off then back on) the power to the crane/receiver to be programmed.
- 3. Use WiFi to connect to "VENTURO3B306".
- 4. Enter "3B3063X1" (the two letters must be capitalized) when prompted for a password.
- 5. Once connected, enter http://192.168.1.1 in your browser's address bar.
- 6. You should now see the Main Screen / Home Menu.
- 7. The GATE will time-out after five minutes of inactivity, and you will need to repeat the connection process.

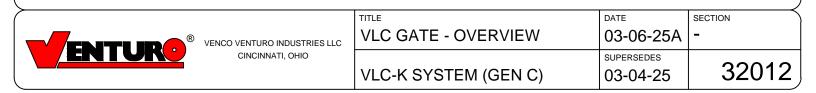
E	Help!
	n Screen
Vento ven	nuru muusines EEG.
Diagnostics	Update Crane Data
Histogram	Wi-Fi Configuration
User Settings	Software Update
Calibration	

DIAGNOSTICS OVERVIEW:

- The Diagnostic screen shows the present state of remote communications and system I/O.
- When the round circle next to a label is dark, the corresponding ON/OFF input or output is sensed to be active or ON.

HISTOGRAM OVERVIEW:

- The Histogram screen shows which error codes are active and how many times the specific error code has been active.
- This feature can be used to troubleshoot wiring and other problems.



VLC GATE - USER SETTINGS

USER SETTINGS OVERVIEW:

- The VLC system has several user-configurable settings:
 - Stability Test Mode Enabled or Disabled ••
 - AUX ON/OFF Latching Enabled or Disabled (Momentary) ••
 - AUX 1 Latching Enabled or Disabled (Momentary) ••
- AUX 2 Latching Enabled or Disabled (Momentary) ..

STABILITY TEST MODE OVERVIEW:

- The Stability Test Mode is intended to be used only by the equipment upfitter that installs the crane and only for the purpose of evaluating the overall stability of the installation.
- When Enabled (box checked), the crane will be able to reach 118% of the maximum rated capacity.
- This mode is automatically Disabled when the receiver is powered off.
- When in Stability Test Mode, the screen will appear as shown here:

ENABLING STABILITY TEST MODE:

- 1. From the Home Screen, select User Settings.
- 2. Select "Stability Test" from the left-side dropdown menu.
- 3. Check the checkbox.
- 4. Click "Save".

AUXILIARY LATCHING OVERVIEW:

St

- When latching is Enabled (box checked), the specified AUX function will latch on and stay on until • the same AUX function is selected again (at which point it will turn off).
- When latching is Disabled (box unchecked), the specified AUX function will only be energized for as long as the switch or button is actuated.

ENABLING/DISABLING AUXILIARY LATCHING:

- 1. From the Home Screen, select User Settings.
- 2. Select "Aux Settings" from the left-side dropdown menu.
- 3. Select the desired Aux switch (AUX, AUX 1, AUX 2) from the right-side dropdown menu.
- 4. Check the checkbox to enable latching or Uncheck to disable latching.
- 5. Click "Save".

Aux Settings Aux 1 Latched	 ✓ Aux 1 Latched ✓ 		
	Save		
NCO VENTURO INDUSTRIES LLC	VLC GATE - USER SETTINGS	^{DATE} 03-06-25А	SECTION
CINCINNATI, OHIO	VLC-K SYSTEM (GEN C)	SUPERSEDES 03-04-25	32013

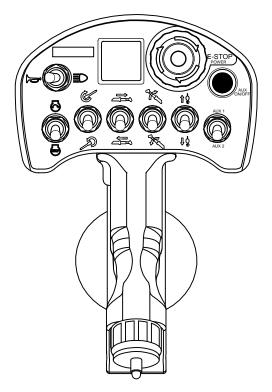


Stability lest	•	
Stability Test:		

MAINTENANCE

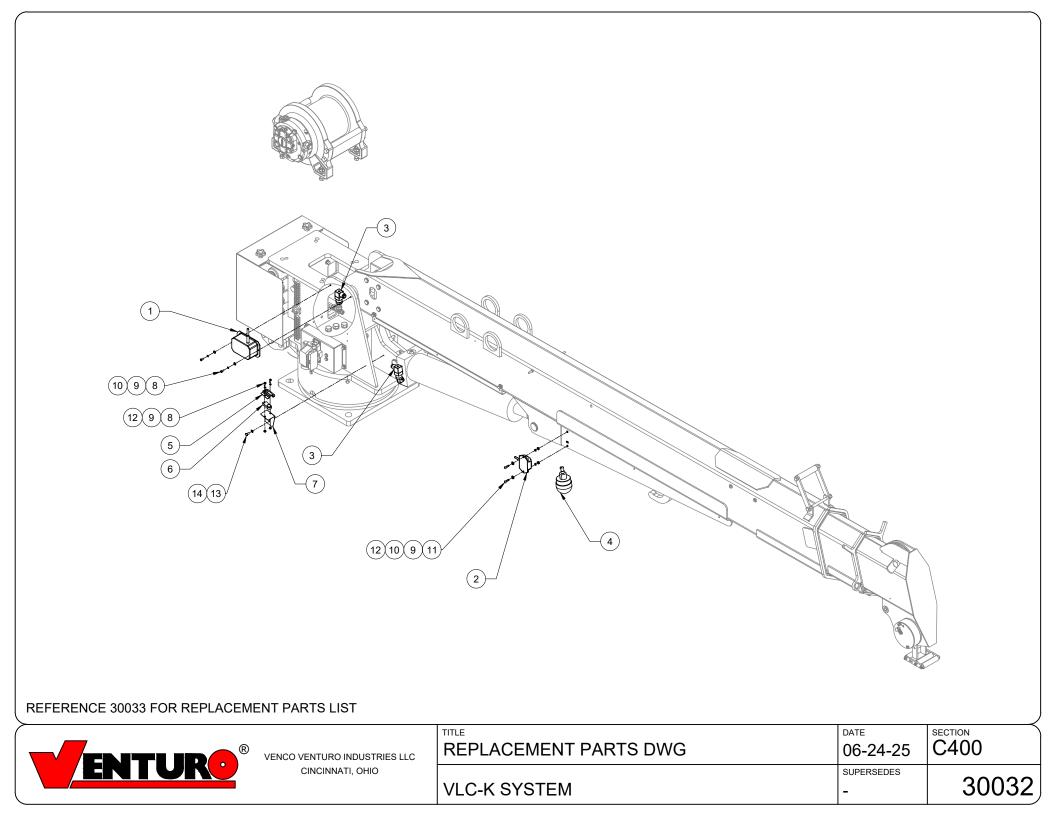
The VLC-K Venturo Logic Controls system requires only minimal maintenance:

- Make sure that transmitter is OFF and that both the crane master power and crane hydraulics are OFF
- Clean transmitter housing as-needed with a damp cloth and mild detergent (e.g. dish soap)
- Clean trigger control by blowing air around the trigger area to remove debris; use light machine oil at trigger pivot
- Inspect switches and connector for looseness; tighten as necessary





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TRIES LLC	VLC-K SYSTEM	SUPERSEDES	32010



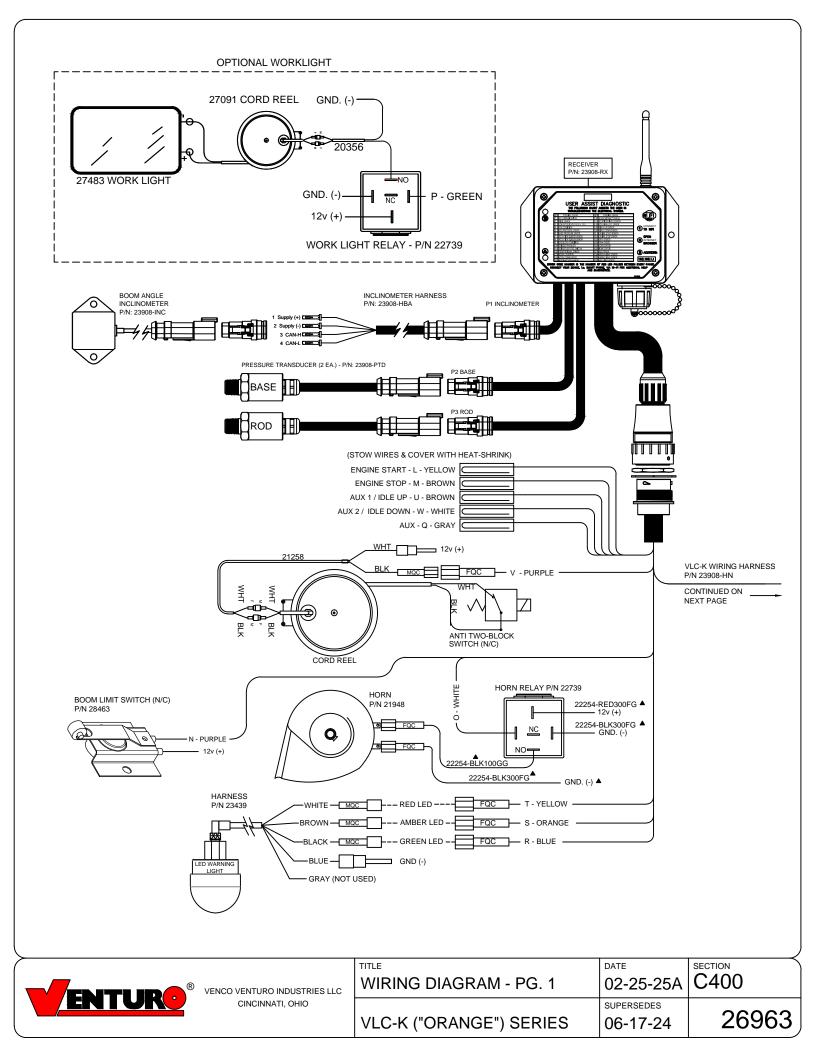
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	23908-RX	RECEIVER; ESCAN,
2	1	23908-INC	UNIVERSAL INCLINOMETER
3	2	23908-PTD	PRESSURE TRANSDUCER; VLC SYSTEM
4	1	23438	WARNING LIGHT; TRI-COLOR, LED
5	1	19917	BRACKET; BOOM SHUT-OFF SWITCH
6	1	28463	SWITCH; BOOM TOP POSITION
7	1	20497	BRACKET; SWITCH
8	4	PHPMS#1024050S	PAN HEAD PHILLIPS SCREW- #10-24 X 1/2" LG, S/S
9	6	!LWSH-#10S	LOCK WASHER; #10, S/S
10	6	!FWSH-10300S	FLAT WASHER; #10, S/S
11	2	!PHPMS#1024075S	PAN HEAD PHILLIPS SCREW- #10-24 X 3/4" LG, S/S
12	2	!HNUT-#1024S	HEX NUT - #10-24 S/S
13	1	!HHCS02520050S	HEX HEAD CAP SCREW- #1/4-20 X 1/2" LG, S/S
14	1	!LWSH-025S	LOCK WASHER; 1/4", S/S

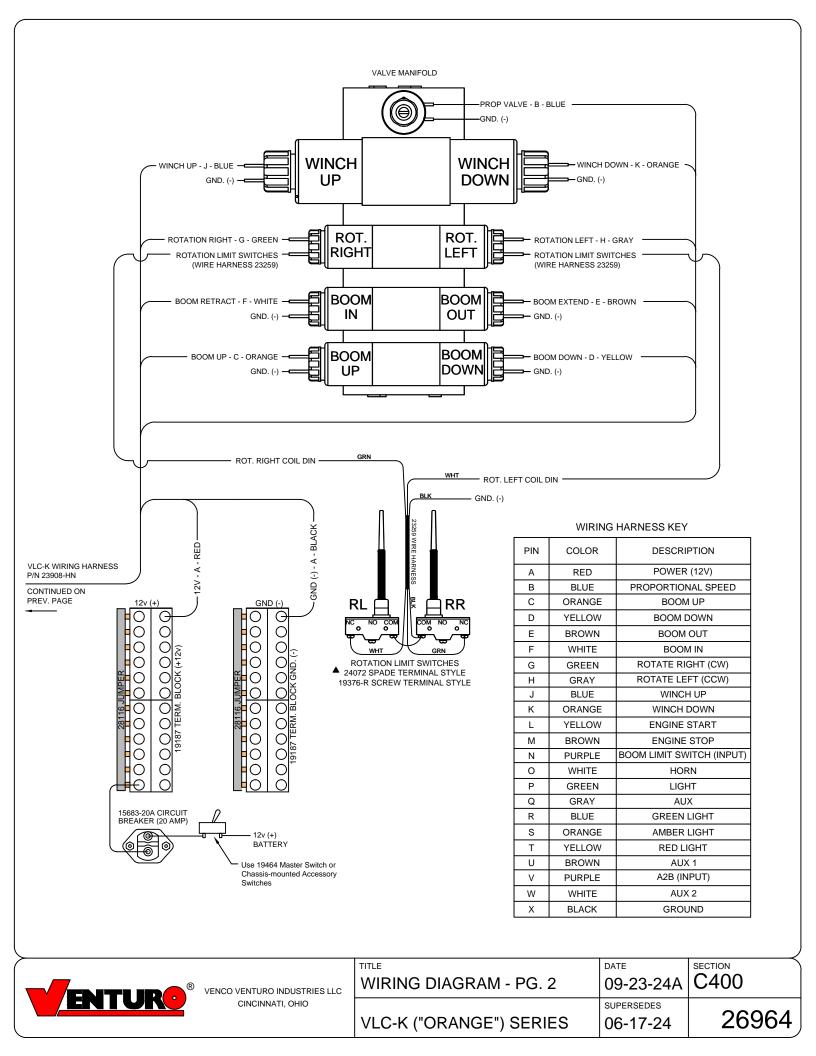
REFERENCE 30032 FOR REPLACEMENT PARTS DRAWING



TITLE	DATE
REPLACEMENT PARTS LIST	06-
VLC-K SYSTEM	SUPE

-25-25	section C400
RSEDES	30033





REPLACEMENT PARTS & ACCESSORIES VLC-K SYSTEM, OWNER'S MANUAL

VLC-K SYSTEM INCLUDED COMPONENTS & REPLACEMENT PART NUMBERS:

#	QTY	PART NO.	DESCRIPTION
1	1	23908-TX	RADIO TRANSMITTER (900 MHZ) (INCLUDES BATTERY)
2	1	23908-RX	RADIO RECEIVER W/ ANTENNA (900 MHZ, POTTED)
3	2	23908-PTD	PRESSURE TRANSDUCER (4-20 mA / 0-5000 psi)
4	1	23908-INC	INCLINOMETER
5	1	23908-HBA	HARNESS - BOOM ANGLE TRANSDUCER KIT
6	1	23908-HN	HARNESS - CRANE MECHANISM
7	1	23908-CAN	CAN CABLE - 25 FT
8	1	23908-CHG	CHARGER - 12 V - VEHICLE LIGHTER/AUX PLUG
9	1	23438	TRI-COLOR LED WARNING LIGHT
10	1	23439	HARNESS, TRI-COLOR LED WARNING LIGHT
11	1	23731	PARKER SEAL-LOK ORFS TEE FITTING P/N 6R6LO-S (6 MORFS x 6 FORFS SWIVEL x 6 MORFS BRANCH)
12	1	23910	PARKER SEAL-LOK ADAPTER P/N #6 G6L-S (6 FORFS SWIVEL X 4 FP) - BRANCH OF TEE TO PRESSURE TRANSDUCER
13	1	H6805-0404	ELBOW FITTING - 4 MORB SWIVEL x 4 FP - ELEV CYL BASE END
14	1	23258	WIRE HARNESS ASSY, COIL GROUNDS, HYD CONTROL VALVE ASSY
16	1	24185	"DO NOT PRESSURE WASH" DECAL

ADDITIONAL ACCESSORIES & REPLACEMENT PARTS (NOT INCLUDED)

#	VENTURO P/N	DESCRIPTION
2	23908-ADP	AC ADAPTER - 110 V WALL CHARGER
3	23908-BAT	BATTERY - TX



REP. PARTS & ACC.	^{DATE} 12-07-22	SECTION
VLC-K SYSTEM	SUPERSEDES	32004

VLC-K TROUBLESHOOTING GUIDE

CONDITION: WILL NOT OPERATE		
PROBABLE CAUSES	SOLUTION(S)	
E-STOP ENGAGED	RELEASE E-STOP BUTTON BY ROTATING CLOCKWISE	
	1 RESTABLISH COMMUNICATION	
	- WALK TOWARD RECEIVER / CRANE	
LOST COMMUNICATION	- WATCH FOR NORMAL OPERATING SCREEN	
	2 TURN TRANSMITTER OFF THEN ON TO REESTABLISH CONTACT	
	1 CHECK WIRING HARNESS, PIN A (RED) FOR +12V	
	2 TRACE & CHECK SUPPLY TO TERMINAL BLOCK (RED)	
	3 CHECK TERMINAL BLOCK CONNECTION TO CIRCUIT BREAKER <cb></cb>	
NO POWER - RECEIVER	4 CHECK CONNECTION FROM <cb> TO MASTER DISCONNECT</cb>	
	5 CHECK WIRING HARNESS, PIN X (BLACK) FOR GROUND	
	6 TRACE & CHECK GROUND TO TERMINAL BLOCK	
	7 TRACE & CHECK GROUND CONNECTIONS FROM TERMINAL BLOCK	
	CHECK TRANSMITTER BATTERY LEVEL & CHARGE AS NEEDED	
NO POWER - TRANSMITTER	PAIR TRANSMITTER AND RECEIVER	
	SEE PAGE 32002 FOR PAIRING PROCEDURE	

NEED HELP? PLEASE CALL TECHNICAL SUPPORT AT 1-800-226-2238



DATE

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VLC TROUBLESHOOTING GUIDE

CONDITION: ATB (ANTI-2-BLOCK) ERROR

1

PROBABLE CAUSES

SOLUTION(S)

A2B SENSOR ACTUATED

LOWER THE LOAD AWAY FROM BOOM HEAD (WINCH DOWN, BOOM IN, OR BOOM UP)

CONDITION: YELLOW	LIGHT ILLUMINATED
PROBABLE CAUSES	SOLUTION(S)
	THIS ALERT IS TO MAKE OPERATOR AWARE THAT CRANE IS1APPROACHING ITS MAXIMUM CAPACITY; THE CRANE WILL CONTINUE TO OPERATE NORMALLY
CRANE IS OPERATING AT 80% OR	2 IF YOU WISH TO OPERATE BELOW THE 80% THRESHOLD:
GREATER OF ITS MAX CAPACITY	♦ WINCH DOWN AND REDUCE THE LOAD (WINCH DOWN)
	◆ INCREASE BOOM ANGLE (BOOM UP)
	◆ RETRACT BOOM (BOOM IN)

CONDITION: OVERLC	AD ERROR / RED LIGHT ILLUMINATED
PROBABLE CAUSES	SOLUTION(S)
	ONLY WINCH DOWN, BOOM UP, BOOM IN, AND ROTATION WILL FUNCTION; WINCH UP, BOOM DOWN, AND BOOM OUT WILL BE DISABLED
CRANE IS OPERATING AT OVER 100% OF	2 TO RESTORE NORMAL CRANE FUNCTION:
	♦ WINCH DOWN AND REDUCE THE LOAD (WINCH DOWN)
	◆ INCREASE BOOM ANGLE (BOOM UP)
	◆ RETRACT BOOM (BOOM IN)

NEED HELP? PLEASE CALL TECHNICAL SUPPORT AT 1-800-226-2238



TITLE	DATE
TROUBLESHOOTING GUIDE	07-14-23
	SUPERSEDES
VLC-K SYSTEMS	-

3200
-
SECTION

TROUBLESHOOTING; ERROR CODES VLC-K SYSTEM, OWNER'S MANUAL

ERROR CODES INDICATED BY FLASHING RED LED ON RECEIVER MODULE. ERROR CODES ALSO VIEWABLE ON HISTOGRAM PAGE ON GATE.

EC	ERROR CODE EXPLANATION	POSSIBLE CAUSES		
1	RF COMMUNICATION PROBLEM	TRANSMITTER IS OFF		
		TRANSMITTER WENT TO SLEEP MODE		
		INTERFERENCE IN RF COMMUNICATION	LINK	
2	LOW INPUT VOLTAGE (<11V)	SYSTEM VOLTAGE IS BELOW 11V (12V SYSTEM)		
3	-	-		
4	PRESSURE 1 ERROR	NO CURRENT OR TOO MUCH CURRENT (>20mA) READ AT PRESSURE TRANSDUCER		
5	PRESSURE 2 ERROR			
6	OVERLOAD ERROR	OVERLOAD CONDITION PRESENT		
7	A2B ERROR	ANTI-TWO BLOCK CONDITION PRESENT, A2B INPUT LOW		
8	BOOM UP LIMIT ERROR	BOOM UP LIMIT ACTIVE, BOOM LIMIT INPUT LOW		
9	BOOM SENSOR ERROR	NO CAN MESSAGES BEING RECEIVED FROM BOOM SENSOR		
10	-	-		
11	PROP. OUTPUT ERROR	_		
12	BOOM UP OUTPUT ERROR			
13	BOOM DOWN OUTPUT ERROR			
14	BOOM OUT OUTPUT ERROR			
15	BOOM IN OUTPUT ERROR			
16	ROTATE CW OUTPUT ERROR			
17	ROTATE CCW OUTPUT ERROR			
18	WINCH UP OUTPUT ERROR			
19	WINCH DOWN OUTPUT ERROR	SHORT OR OPEN LOAD/COIL ON OUTPUT		
20	ENGINE START OUTPUT ERROR	_		
21	ENGINE STOP OUTPUT ERROR	_		
22	HORN OUTPUT ERROR			
23	LIGHT OUTPUT ERROR			
24	AUX OUTPUT ERROR]		
25	GREEN LIGHT OUTPUT ERROR]		
26	AMBER LIGHT OUTPUT ERROR	1		
27	RED LIGHT OUTPUT ERROR			
28	TRIGGER INPUT ERROR	NO VOLTAGE PRESENT ON TRIGGER IN TX		
29	TRIGGER BEFORE SWITCH ERROR	TRIGGER PULLED ON TX BEFORE SWITC	H WAS ACTIVE	Ξ
			DATE	SECTIC



VLC-K SYSTEM

CINCINNATI, OHIO

32005

SUPERSEDES

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VENTURO CRANES LIMITED WARRANTY POLICY



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

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

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

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

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

Warranty Claims

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

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

VENCO VENTURO INDUSTRIES LLC

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