

INST-VT1223



**WORKFORCE SERIES**

**VTEC**

**OWNER'S MANUAL**

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# **WORKFORCE SERVICE TRUCK**

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**VENTURO TRUCK EQUIPMENT CENTER, LLC**  
12091 BEST PLACE | CINCINNATI, OHIO 45241  
800-226-2238



This manual contains information related to all Workforce model service trucks by Venturo Truck Equipment Center. This manual is provided to acquaint you with the proper operation of your Workforce service truck. It is the user's responsibility to maintain and operate this unit in a manner that will result in the safest working conditions possible. It is also the user's responsibility to be aware of any existing Federal, State, or Local codes and regulations governing the use and maintenance of this vehicle.

OSHA requires the crane operator to fully understand ALL applicable regulations, including OSHA 29 CFR Subpart CC, OSHA 1910.180, PCSA #2. Venturo Truck Equipment Center also recommends ANSI B30.5 (2021)

This manual also available online at [www.venturo.com](http://www.venturo.com).



# WORKFORCE SERVICE TRUCK

INST-VT1223 - 6/5/2024 (Rev: A0)

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## READ THIS FIRST **QUICK START GUIDE (QSG)**

THE QSG THAT FOLLOWS PROVIDES BASIC INSTRUCTIONS FOR OPERATING THE TRUCK, CRANE AND STABILIZERS.

**BEFORE** FOLLOWING THE QSG, REVIEW THESE WORK SAFELY RULES:



### **WORK SAFELY: FOLLOW THESE RULES**

**A careful operator is the best insurance against an accident.**

Important safety points to remember and follow while operating this unit:

- **ALWAYS** have a clear view of the work area.
- **ALWAYS** use the proper tools with safety glasses when working with and/or around the truck
- **ALWAYS** make sure no one is around or on the truck before starting it.
- **ALWAYS** depress the clutch pedal before engaging or disengaging the PTO.
- **ALWAYS** stabilize the unit before attempting any lifting operation.
- **ALWAYS** repair any defects before placing the unit in service.
- **ALWAYS** disengage the PTO before moving the vehicle.
- **ALWAYS** make sure to extend the wire rope before extending the inner boom when using the winch.
- **ALWAYS** keep the load as close to the ground as possible.
- **ALWAYS** deduct the weight of the load handling equipment from the rated capacity of the crane.
- **ALWAYS** stand clear when positioning outriggers.
- **ALWAYS** keep the crane operating area clear of unauthorized personnel.
- **ALWAYS** stow crane prior to moving the vehicle.
- **ALWAYS** have 5 minimum cable wraps on the crane winch drum.
  
- **NEVER** operate the crane too close to a power line. (see OSHA CFR 1926.1407-1411)
- **NEVER** lubricate, adjust or service truck while the engine is running, except when necessary.
- **NEVER** allow anyone in the operator's position to accidentally start the engine while servicing.
  - After servicing, be sure all equipment, tools, and parts are removed.
- **NEVER** swing a load so it passes over people.
- **NEVER** swing a load so it passes over the cab of truck.
- **NEVER** rotate the crane too fast with a load.
- **NEVER** exceed the rated lifting capacity.
- **NEVER** leave the operator's station with a load suspended in the air.
- **NEVER** use the winch to drag a load into position before lifting.
- **NEVER** side load the boom by dragging a load from the side.
- **NEVER** use the crane for lifting people.
- **NEVER** use quick, jerky movements when operating the crane.
- **NEVER** operate the crane during an electrical storm or when high wind conditions exist.
- **NEVER** perform any work on the crane unless authorized to do so.
- **NEVER** attempt to service or repair the crane while the crane is operating.
- **NEVER** pick and carry with any crane.

\*\*\* The most crucial factors in the safe operation of the crane are a competent operator, mechanical soundness of the crane, and absolute assurance that the crane is not loaded to exceed its maximum rated capacity. \*\*\*



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TITLE

**SAFETY RECOMMENDATIONS**

VTEC QUICK START GUIDE

DATE

04-08-24

SUPERSEDES

-

SECTION

**VT1217**

# SECTION 150

## SAFETY



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## TRUCK INSPECTION: (ANSI B30.5-2.1)

Before putting the truck into operation, always perform a thorough inspection of all equipment and follow all safety and inspection rules required by your company.

The check list below can be used as a general guide for the inspection.

1. **Structural Integrity:** Examine truck for soundness and/or damaged/weakened members.
2. **Hydraulic Oil Supply:** Ensure adequate oil supply for proper hydraulic function.
3. **Hydraulic Oil Leakage:** With hydraulic system engaged, examine hoses and hydraulic equipment for leaks, blisters, and/or cracks.
4. **Equipment Controls:** Perform tests of all control functions to confirm operation.

Equipment should be checked prior to operation to ensure the safety of the operator and everyone in the vicinity. If inspection proves unsatisfactory, necessary repairs must be performed before equipment is used.



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TITLE	DATE	SECTION
TRUCK INSPECTION	05-23-24	150
WORKFORCE SERVICE TRUCKS	SUPERSEDES -	VT1231

**SECTION 300**

**OPERATION**

**&**

**MAINTENANCE**

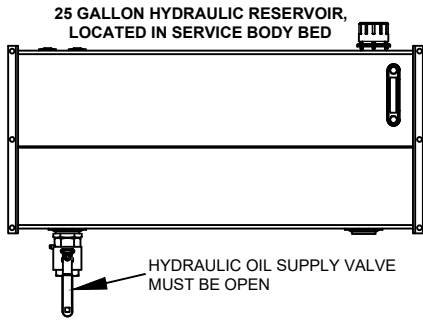


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CINCINNATI, OHIO



## STEP 1

OPEN HYDRAULIC OIL SUPPLY VALVE



## STEP 2

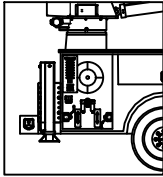
START ENGINE AND ENGAGE  
P.T.O. / HYDRAULIC SYSTEM

FOR HYDRAULIC OPERATION THE CHASSIS ENGINE MUST BE RUNNING AND THE P.T.O. (POWER TAKE OFF) UNIT MUST BE ENGAGED. FOR MORE INFORMATION SEE PAGE 3, FOR FURTHER INFORMATION SEE CHASSIS / P.T.O. OWNER MANUALS.

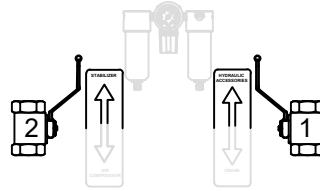
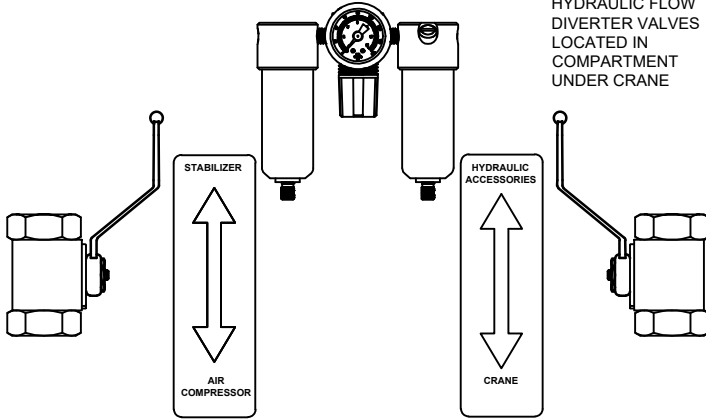


## STEP 3

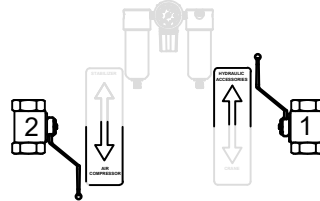
ORIENT HYDRAULIC FLOW  
DIVERTER VALVE HANDLES  
FOR DESIRED HYDRAULIC  
FUNCTION



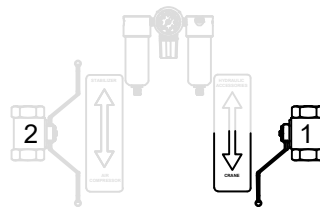
HYDRAULIC FLOW  
DIVERTER VALVES  
LOCATED IN  
COMPARTMENT  
UNDER CRANE



FOR STABILIZER OPERATION  
DIVERTER HANDLE #1 UP  
DIVERTER HANDLE #2 UP  
FOR MORE INFORMATION SEE PAGE 4,  
SEE ALSO THE STABILIZER MANUAL



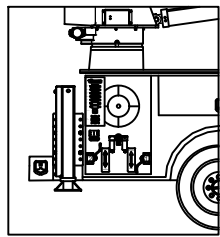
FOR AIR COMPRESSOR  
OPERATION  
HANDLE #1 UP  
HANDLE #2 DOWN



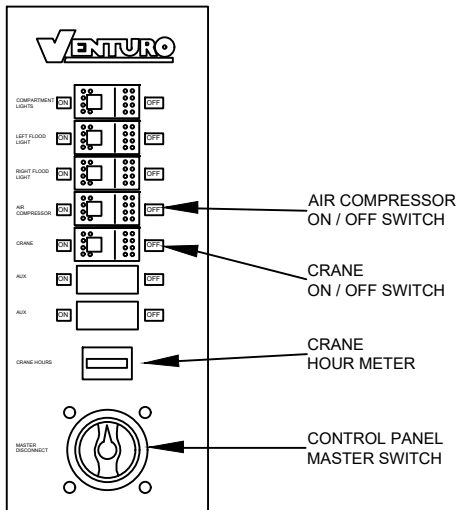
FOR CRANE OPERATION  
HANDLE #1 DOWN  
FOR MORE INFORMATION  
SEE VT1221 & VT1222. FOR DETAILED CRANE  
INFORMATION SEE CRANE MANUAL

## STEP 4

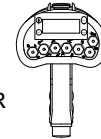
ENERGIZE THE VENTURO CONTROL  
PANEL AND SWITCH ON DESIRED  
ACCESSORY



VENTURO CONTROL PANEL  
LOCATED IN  
COMPARTMENT  
UNDER CRANE

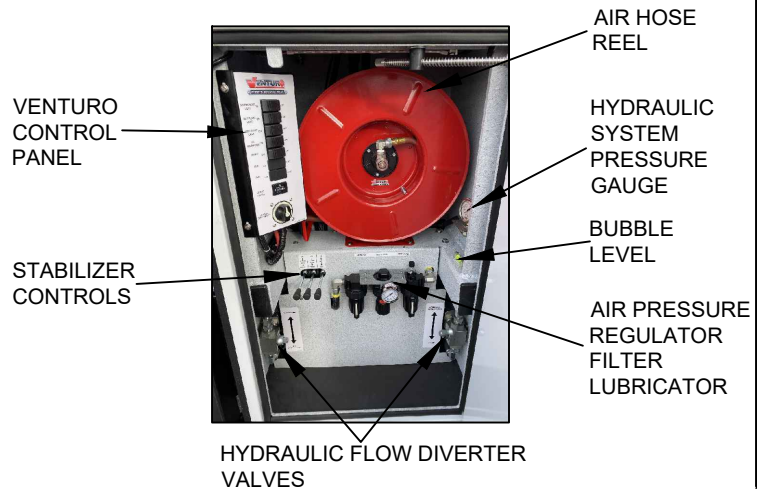


V.L.C .CRANE REMOTE  
TRANSMITTER  
LOCATED ON CHARGE BASE  
INSIDE VEHICLE PASSENGER  
COMPARTMENT



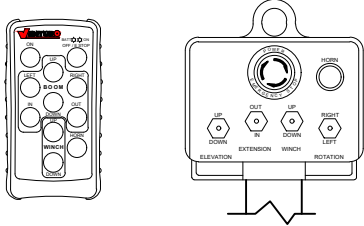
TO CONNECT THE  
TRANSMITTER TO THE CRANE,  
RELEASE STOP BUTTON AND  
TOGGLE THE HORN SWITCH  
SEE VT1221, SEE ALSO V.L.C. MANUAL

### HYDRAULIC COMPARTMENT ILLUSTRATION



**STEP 1**

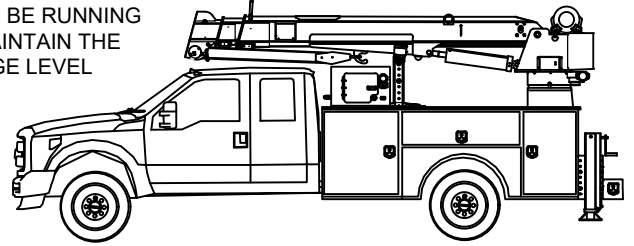
**LOCATE THE CRANE TRANSMITTER**  
(WIRED OR WIRELESS)  
TYPICALLY STORED IN THE VEHICLE PASSENGER CABIN



**STEP 2**

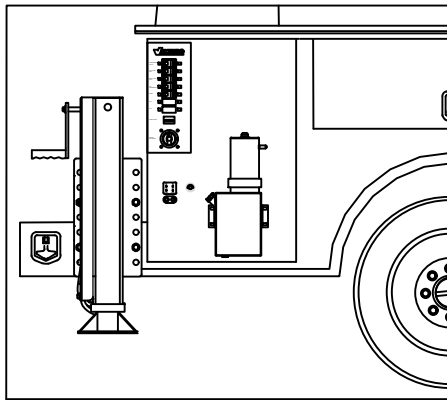
**START THE ENGINE**

FOR ELECTRIC CRANE / POWERED STABILIZER OPERATION THE CHASSIS ENGINE SHOULD BE RUNNING IN ORDER TO MAINTAIN THE BATTERY CHARGE LEVEL

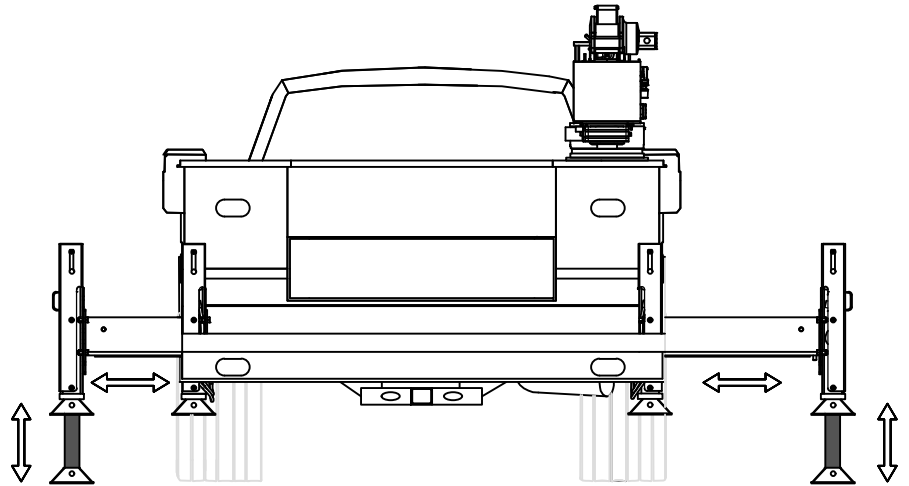


**STEP 3**

**DEPLOY STABILIZERS**  
FOR MORE INFORMATION SEE VT1222, FOR DETAILED INSTRUCTIONS SEE STABILIZER MANUAL (S)



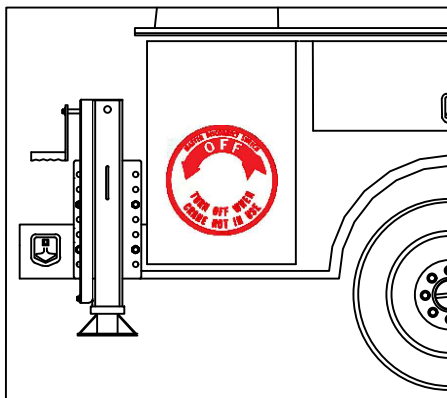
OPTIONAL: **POWERED STABILIZER**  
POWER UNIT AND CONTROLS  
LOCATED IN EITHER REAR COMPARTMENT



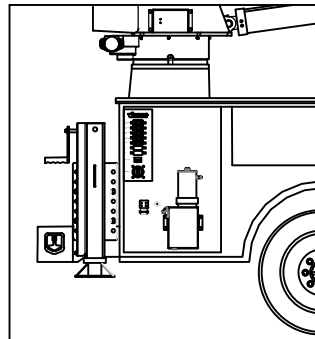
**STEP 4**

**ENERGIZE THE CRANE**

**STANDARD MASTER DISCONNECT SWITCH & DECAL**  
LOCATED INSIDE THE COMPARTMENT BELOW THE CRANE



**TURN ON THE MASTER DISCONNECT SWITCH**



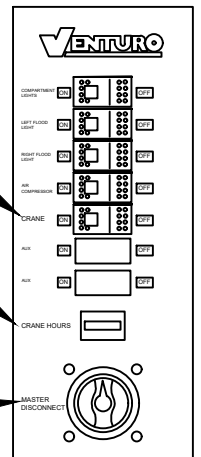
**VENTURO CONTROL PANEL**  
LOCATED INSIDE THE COMPARTMENT BELOW THE CRANE

OPTIONAL:  
**VENTURO CONTROL PANEL**

**CRANE HOUR METER ON / OFF SWITCH**

**CRANE HOUR METER**

**MASTER DISCONNECT SWITCH**  
POWERS CRANE AND STABILIZER POWER UNIT AS WELL AS OTHER ACCESSORIES



### **ENGINE SPEED CONTROL:**

Recommended engine speed for PTO operation is 1200-1400 RPM. Chassis engine speed can be adjusted, though it is set at the factory for target hydraulic flow of 12 GPM.

### **HYDRAULIC DIVERTER VALVES:**

The diverter valves located in the crane compartment control the hydraulic flow to the different hydraulic accessories. Decals located inside the crane compartment illustrate valve positions for desired hydraulic functions.

### **VENTURO CONTROL PANEL:**

The Venturo Control Panel and relay/fuse box are located within the crane compartment. The control panel features a crane hour meter, as well as the master disconnect switch, which must remain in the ON position to use electrical accessories operated by control panel.

The main circuit breaker for the control panel is located adjacent to the chassis battery.

### **ELECTRIC CRANES:**

Venturo electric cranes are controlled by a master disconnect switch located in the crane compartment or on the crane pedestal.



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TITLE	DATE	SECTION
GENERAL OPERATION INFO	05-23-24A	300
WORKFORCE SERVICE TRUCKS	SUPERSEDES 04-08-24	VT1218

## P.T.O. OPERATING INSTRUCTIONS

### **HYDRAULIC OIL SUPPLY:**

The hydraulic reservoir must have adequate oil supply. The shutoff valve located under the reservoir must be open.

### **POWER TAKE-OFF:**

Transmission driven PTO's can be either switch or mechanically activated.

#### Mechanically activated:

The pull-type shifter control knob is located in the vehicle's cab, normally through the floor.

To engage the PTO, place the emergency brake on and depress the clutch with the transmission in neutral, then pull out the control knob and release the clutch. To disengage, depress the clutch and push the control knob in, then release the clutch.

#### Switch activated (either electrically or air switched):

The switch is located in the vehicle's cab, normally on the dash.

#### Manual Transmission:

- To engage PTO:

- Engage emergency brake.
- Depress clutch with transmission in neutral.
- Activate PTO switch.
- Release clutch.

- To disengage PTO:

- Depress clutch with transmission in neutral.
- Deactivate PTO switch.
- Release clutch.

#### Automatic Transmission:

- To engage PTO:

- Put transmission in park or neutral.
- Engage emergency brake.
- Activate PTO switch.

- To disengage PTO

- Deactivate PTO switch.



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TITLE

P.T.O. OPERATION

WORKFORCE SERVICE TRUCKS

DATE

04-08-24

SUPERSEDES

-

SECTION

-

VT1219

## CRANE OPERATION:

Prior to any work at job sites, operators should thoroughly familiarize themselves with the controls, load limits, safety factors and proper operating procedures and practices. In addition, operators should practice operating the crane before lifting loads.

Before removing the crane boom from the boom rest saddle, it is important that all stabilizers are extended and on a firm level foundation.

Before performing any lifting operation, be sure to study and understand the capacity chart. The chassis stability chart is located on the crane compartment door; an additional chart can be found in the crane manual. The percentages on the chart are in reference to a full load full extension measured from the boom tip to the center of rotation.

Venturo cranes are equipped with an A2B (Anti-Two-Block) device. When A2B is activated, the following functions will be shut down: Winch UP, Boom Out and Boom Down. These functions will be restored when the A2B condition is resolved, by activating Winch Down or Boom In.

### For VLC-equipped model cranes:

Venturo cranes are equipped with a load-sensing system incorporating a Tri-color LED, located on the bottom of the primary boom, and LCD display screen on the transmitter.

When Anti-Two-Block activated, the tri-color warning light under the primary boom will FLASH RED, the transmitter will vibrate and the LCD screen will indicate 'Anti-Two-Block'.

#### Tri-color LED:

- Green = within load limits
- Flashing Green = Stability Mode (for stability vehicle testing only)
- Amber = at or above 80% of rated load or A2B condition
- Flashing Red = at or above 100% of rated load or A2B condition

#### Transmitter LCD Screen:

- Displays % of load
- A2B condition
- Sensor Errors

These safety features are not intended to relieve the operator of any responsibility with the use of the crane. The main deterrent against accidents is an informed and competent operator. (OSHA & ANSI require qualified and competent individuals to operate cranes)



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TITLE	DATE	SECTION
CRANE OPERATION	04-08-24	-
WORKFORCE SERVICE TRUCKS	SUPERSEDES -	VT1221

**CRANE OPERATION CONTINUED:**

**WARNING: ATTEMPTING TO LIFT MORE THAN THE INDICATED CAPACITY COULD RESULT IN CRANE COMPONENT DAMAGE, IN-STABILITY, OR STRUCTURAL FAILURE LEADING TO SERIOUS INJURY OR DEATH!**

After the operation is complete and the crane is ready to be shutdown, inspect the crane and its components to be sure it has not been damaged during use.

1. Retract the boom and cable before swinging the crane over the saddle.
2. Stow the crane in the boom rest saddle.
3. Raise and retract all stabilizers and make sure they are properly secured.
4. Disengage the throttle and the PTO controls and make sure all toggle switches are in the OFF position. Turn the master switch to the off position.
5. Before moving the vehicle make sure all compartments are closed and that any items on the truck bed have been secured.

**STABILIZER OPERATION:**

When setting up a crane for operation, ensure the work area has a firm, level foundation that will not fail under working conditions. Avoid operating the crane with low overhead obstructions. Exhibit extreme caution when in vicinity of overhead power lines.

When lowering stabilizers, ensure everyone is standing clear and nothing is obstructing stabilizer pad and ground. For maximum stability, fully extend all stabilizer(s) and lower all legs on a firm foundation.

**OSHA requires the truck to be level within 1% of grade before performing any lift.**

**ALWAYS HAVE STABILIZERS IN PLACE FOR ANY LIFTING OPERATION!**

**NOTE: STABILIZERS ARE NOT MEANT TO LIFT THE VEHICLE TIRES OFF THE GROUND. TIRE-TO-GROUND CONTACT IS ESSENTIAL AND PART OF THE VEHICLE STABILITY CALCULATION SYSTEM.**



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TITLE	DATE	SECTION
CRANE OP. CONT. / STABILIZER OP.	04-08-24	-
WORKFORCE SERVICE TRUCKS	SUPERSEDES -	VT1222



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04-08-2024