

PARTS & INSTALLATION MANUAL VC6628

Included in this manual:

VC6628

• Capacity & Application Charts

VENCO VENTURO INDUSTRIES LLC 12110 BEST PLACE | CINCINNATI, OHIO 45241



INST-662874 - 1/30/2024 (Rev: A3)

520951 **INSTALLATION WARNINGS** 520952 **OPERATOR WARNINGS**

516913 SECTION 200: INSTALLATION

662851

CAPACITY CHART, VC6628 VC6628 MOUNTING DIMENSIONS 662867 HOIST LIFTING HOLE LOCATIONS 662864 IMPORTANT INSTALLATION NOTICE 416086 HOIST MOUNTING INSTRUCTIONS 662871 662872 HOIST MOUNTING INSTRUCTIONS 662873 HOIST MOUNTING INSTRUCTIONS INSTALLATION INSTRUCTIONS 520093

HINGE TO BED MOUNTING INSTRUCTIONS 628861

CABLE / HANDLE ASSEMBLY 620246 PTO PUMP CABLE INSTALLATION 416755

SPLIT PUMP 416763

416812 **BI-ROTATIONAL PUMP INSTALLATION** SPDG HOSE CONNECTION DIAGRAM 552004

WILLIAMS PTO WARNING 416287

416128 **DECAL LOCATIONS**

516917 SECTION 250: OPERATION

520079 MAINTENANCE & OPERATION INSTRUCTIONS 416644

BODY PROP OPERATION GUIDE, GENERAL BODY PROP OPERATION GUIDE, ILLUSTRATIONS / INSTRUCTIONS 628645

516914 SECTION 300: MAINTENANCE VC6620/6628 HOISTS GREASE POINTS 662124

516915 SECTION 400: REPLACEMENT PARTS

DECAL LIST 628820

REPLACEMENT PARTS DWG, VC6628 HOIST REPLACEMENT PARTS LIST, VC6628 HOIST 662853 662854

620245 REPLACEMENT PARTS DIAGRAM, PTO PUMP CABLE/CONCOLE

516919 **USER NOTES USER NOTES** 516919 12-00073_VNC3 WARRANTY PAGE

READ THIS FIRST - INSTALLATION

USE THE BODY PROP

- NEVER work under a raised body without the use of the body prop. Body could inadvertently fall, causing death or serious injury.
- NEVER perform maintenance on a Hoist without applying the following:
- Chassis brake set and engine turned off
- Removing battery cable, if necessary
- Properly deploying the Hoist body prop



WILL RESULT IN SERIOUS INJURY OR DEATH



INSTALLATION SAFETY REQUIREMENTS

- Cover all fuel related items (hoses, brake lines, wiring, etc.) so as not to cause fire or explosions that will result in serious injury or death.
- Route all wiring and hoses away from exhaust systems. Heat from exhaust systems can cause melting of wiring and hoses, resulting in fire and/or explosions that could result in serious injury or death.
- Hydraulic system must be designed to work within the manufacturer's specifications. Systems with more flow or PSI can cause hoist to fail during the dumping of a load; which could cause damage, serious injury or death.
- Always wear eye protection and protective clothing when working around hydraulic systems. Fluid under pressure can pierce the skin and enter the bloodstream, causing serious injury or death.



CAN RESULT IN SERIOUS INJURY OR DEATH



IMPORTANT INSTALLATION REQUIREMENTS

- Read and fully understand entire owner's manual prior to installation.
- Refer to Body Builder's Guide BEFORE welding or drilling on chassis as not to void the chassis warranty.
- When drilling the chassis make sure all brake lines, wire harnesses, and hoses are protected so as not to cause damage to these items resulting in failure. All fasteners must be installed so they do not interfere with these items as well.
- NEVER adjust factory relief valve settings without consulting with the factory.



COULD RESULT IN MINOR OR MODERATE INJURY





INSTALLATION WARNINGS

DATE

SECTION

12-11-23C

520951

VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

HOISTS

SUPERSEDES 11-07-23B

READ THIS FIRST - OPERATION

USE THE BODY PROP

- ▶ When performing maintenance, truck should be turned off and the emergency brake set along with the body prop set under an UNLOADED body. NEVER prop a loaded body. Body could inadvertently fall, causing death or serious injury.
- ► NEVER work under a raised body without the use of the body prop. Body could inadvertently fall, causing death or serious injury.



WILL RESULT IN SERIOUS INJURY OR DEATH



DUMP SAFETY

- ► Overloading Hoist can cause equipment malfunction, which will cause serious injury or death.
- ► Venco hoists are designed for and intended to be used on <u>stationary trucks</u>, dumping on firm and level ground. Spreading applications and/or <u>shock-unloading</u> are strictly prohibited. Failure to follow these guidelines could result in serious injury or death.
- ▶ Do not dump while on uneven ground or if vehicle is uneven side to side. Dumping while uneven can cause vehicle to overturn and cause property damage, equipment damage, serious injury or death.
- ► Stay clear of dump body when dumping. Moving vehicle parts or the moving load could cause serious injury or death.
- ▶ NEVER operate this Hoist from outside the cab. This could cause serious injury or death.



CAN RESULT IN SERIOUS INJURY OR DEATH



UNDERSTAND YOUR EQUIPMENT

- ► Read and fully understand entire owner's manual prior to operating this equipment.
- ▶ Only allow qualified personnel to work on this equipment that understands its functions.
- ► Make sure all warning and caution labels are legible and properly placed. Refer to the installation section for placement and the replacement parts section for replacement decals.
- ▶ We strongly recommend you contact your truck equipment distributor to perform any type of repair or maintenance on your equipment. If you do not have a local distributor, call VENCO VENTURO INDUSTRIES LLC for the closest authorized distributor.



COULD RESULT IN MINOR OR MODERATE INJURY





OPERATOR WARNINGS

HOISTS

12-11-23B

SECTION -

SUPERSEDES 11-07-23A

SECTION 200

INSTALLATION



VENCO HOIST MODEL VC6628

CAPACITIES ARE BASED ON WATER LEVELS AND NON-DIMINISHING LOADS. DUE TO THE VARIATIONS IN TRUCK EQUIPMENT AND CAB-AXLE LENGTHS (CA), THE DATA PROVIDED ON THIS PAGE IS TO BE USED AS A GUIDELINE ONLY.

DUMP CLASS: 90 CONVERSION CLASS: J WEIGHT: 1200 LBS.

POWER SOURCE:

ES - ELECTRIC SINGLE CTING ED - ELECTRIC DOUBLE ACTING

PD - POWER TAKE OFF DOUBLE ACTING

ADDITIONAL DATA:

DUAL CYLINDERS, 6" BORE x 28" STROKE

CA: 138"-252" CT: 126"-240"

DUMP ANGLE: 40° - 50°

MOUNTING HEIGHT REQ'D: 10-1/2"

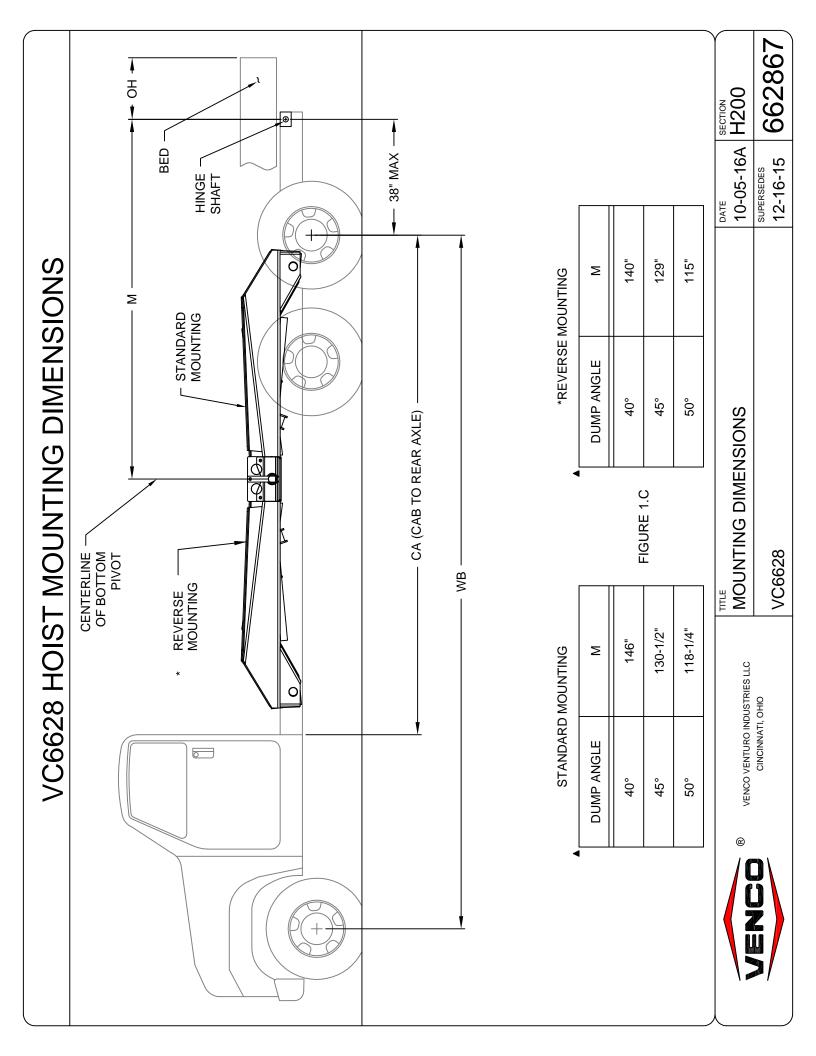
CONVERSION APPLICATIONS VC 6628						
BODY	CA	C T	O .H .	45° (TON)	50°(TON)	
18'	138"	1 2 6 "	48"	3 5 . 7	3 2 . 4	
18'	1 4 4 "	1 3 2 "	4 2 "	3 2 . 4	2 9 . 4	
18'	150"	138"	3 6 "	29.7	27.0	
18'	156"	1 4 4 "	3 0 "	27.4	2 4 . 9	
18'	162"	150"	2 4 "	25.5	2 3 . 1	
18'	168"	156"	18"	2 3 . 8	2 1 . 6	
18'	174"	162"	1 2 "	2 2 . 3	2 0 . 2	
18'	180"	168"	6 "	2 1 . 0	19.0	
20'	162"	150"	48"	2 9 . 7	27.0	
2 0 '	168"	156"	4 2 "	27.4	2 4 . 9	
2 0 '	174"	162"	3 6 "	2 5 . 5	2 3 . 1	
20'	180"	168"	3 0 "	2 3 . 8	2 1 . 6	
20'	186"	174"	2 4 "	2 2 . 3	2 0 . 2	
2 0 '	192"	180"	18"	2 1 . 0	19.0	
20'	198"	186"	1 2 "	1 9 . 8	18.0	
20'	2 0 4 "	192"	6 "	18.8	17.0	
2 2 '	186"	174"	4 8 "	2 5 . 5	2 3 . 1	
2 2 '	192"	180"	4 2 "	2 3 . 8	21.6	
2 2 '	198"	186"	3 6 "	2 2 . 3	2 0 . 2	
2 2 '	2 0 4 "	192"	3 0 "	2 1 . 0	19.0	
2 2 '	2 1 0 "	198"	2 4 "	19.8	18.0	
2 2 '	2 1 6 "	2 0 4 "	18"	18.8	17.0	
2 2 '	2 2 2 "	2 1 0 "	1 2 "	17.8	16.2	
2 2 '	2 2 8 "	2 1 6 "	6 "	17.0	15.4	
2 4 '	2 1 0 "	198"	4 8 "	2 2 . 3	2 0 . 2	
2 4 '	2 1 6 "	2 0 4 "	4 2 "	2 1 . 0	1 9 . 0	
2 4 '	2 2 2 "	2 1 0 "	3 6 "	1 9 . 8	18.0	
2 4 '	2 2 8 "	2 1 6 "	3 0 "	18.8	17.0	
2 4 '	2 3 4 "	2 2 2 "	2 4 "	17.8	16.2	
2 4 '	2 4 0 "	2 2 8 "	18"	17.0	15.4	
2 4 '	2 4 6 "	2 3 4 "	1 2 "	16.2	1 4 . 7	
2 4 '	252"	2 4 0 "	6 "	15.5	1 4 . 1	

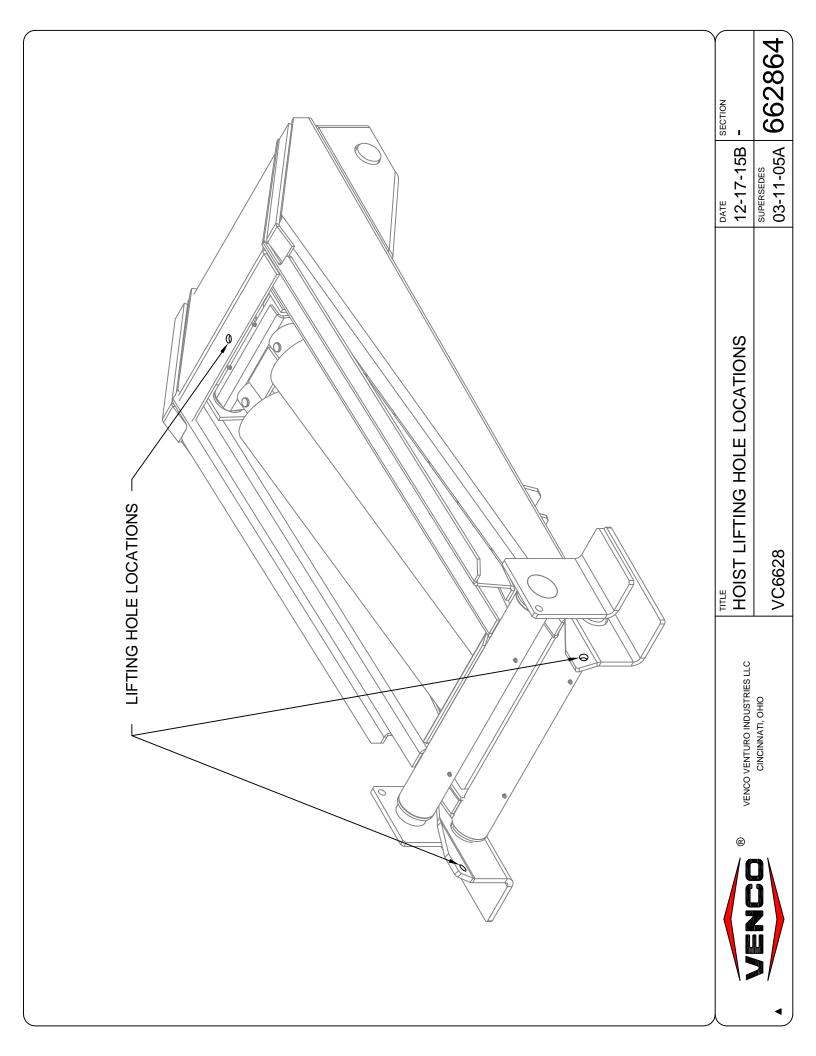
	DUMP BODY APPLICATIONS VC 6628 *					
BODY	CA	СТ	О.Н.	45° (TON)	50°(TON)	
12'	102"	90"	12"	35.7	32.4	
13'	1 1 4 "	102"	12"	3 2 . 4	29.4	
1 4 '	1 2 6 "	114"	12"	29.7	27.0	
15'	1 3 8 "	126"	12"	27.4	24.9	
16'	150"	138"	12"	25.5	23.1	
18'	174"	162"	12"	22.3	20.2	

^{*} VENCO hoists are designed for and intended to be used on stationary trucks dumping on firm and level ground. Spreading applications and/or shock unloading are strictly prohibited abd will void this warranty.



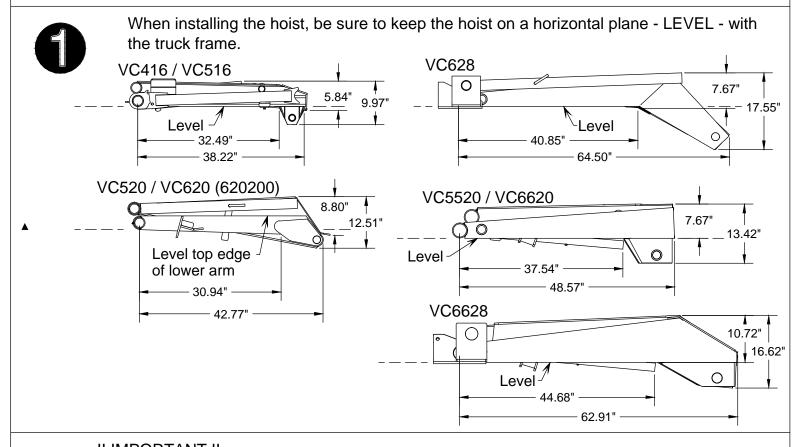
VC 6628 HOIST	supersedes 03-10-05C	662851
CAPACITY CHART	01-23-15D	SECTION H100





!! IMPORTANT WARNING !!

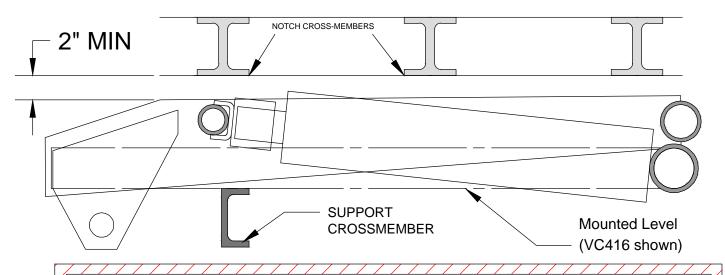
* ALL VENCO CONVERSION HOISTS → VC416 THRU VC6628 *





!! IMPORTANT !!

A minimum clearance of 2" is required between the hoist (upper arm) and the body cross-members in order to prevent a mechanical lockout. If clearance is less than 2", then cross-members must be notched above arms.



!! IMPORTANT !!

THE HOIST SCISSOR MUST BE SUPPORTED WITH A CHASSIS-MOUNTED SUPPORT CROSSMEMBER. IF THE TRUCK CHASSIS DOES NOT HAVE A CROSSMEMBER TO SUPPORT THE HOIST IN A 'LEVEL' POSITION, THE INSTALLER 'MUST' INSTALL A SUPPORT CROSSMEMBER AS SHOWN ABOVE.



VENCO VENTURO INDUSTRIES LLO
CINCINNATI, OHIO

VENCO HOISTS	11-05-15N	416086
IMPORTANT WARNING	12-08-20P	H200
TITLE	DATE	SECTION

HOIST MOUNTING INST VC6628

Refer to Capacity Chart drawing 662851.



- Mark the location for the rear hinge. Ideally, this location will be immediately behind a truck cross member, and the rear hinge assembly exceeds 38", additional reinforcement of the truck frame is necessary
- ⋋ approximately 38" behind the center of the rear axle on a single axle truck (see drawing 662867)
- œ Cut a 90° slot in each side of the frame as shown in Figure 2 below
- O sides). See DWG 628861 for information regarding the mounting of the Rear Hinge Brackets to the body. assembly is properly positioned on the truck frame. Weld all around truck frame rear hinge assembly joint (both Position the angle iron frame of the rear hinge assembly in the truck frame cut-outs. Make sure the rear hinge

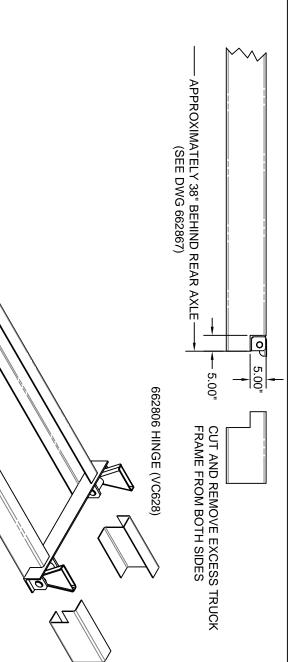


Figure 2 - Frame Modification and Rear Hinge Attachment

Ō Dimensions drawing 662867 provide the dump angles associated with the "M Dimensions. hinge assembly center and the center of the lower pivot is referred to as the "M Dimension" The table on Mounting may have to be moved slightly forward or backwards to avoid frame crossmembers. The distance between the rear designed to rest on the truck frame. A section of the hoist extends below the truck frame level. Therefore, the hoist Locate the hoist on the truck frame, making sure to center and square the hoist to the truck frame. The VC hoist is

cab) decreases dump angle and increases capacity. A backwards movement increases dump angle and decreases capacity. Reference Capacity Chart drawings 662851. Note: Moving the hoist along the truck frame will affect the hoist's performance. A forward movement (towards the



VENCO VENTURO

HOIST MOUNTING INST. - VC6628

E. After the hoist is positioned, place the mounting angles (Figure 3) under the lower pivot angles and against the truck frame. Clamp securely in place. Drill through the frame and install the mounting angle with two [2] 1/2-13 x 1-1/2" Grade 8 hex head cap screws, lock washers, hex nuts, and four [4] flat washers (both sides).

C A U T I O N

- The hoist lower pivot assembly must sit flush on the truck frame. If rivet head interference is encountered, use a filler block or countersink clearance holes in the bottom of the pivot assembly. DO NOT weld hoist mounting angle to truck frames this may void the truck warranty.
- F. Weld each end of the lower pivot angle to its mounting angle as shown in Figure 3. Note the welding symbols. Do not weld to the truck frame.

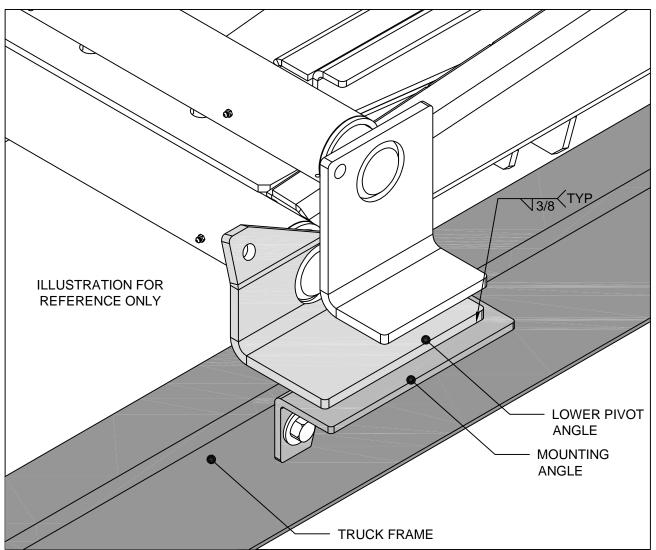


Figure 3. Mounting angle assembly.



VC6628	SUPERSEDES	662872
MOUNTING INSTRCTNS	12-17-15	H200
TITLE	DATE	SECTION

HOIST MOUNTING INSTRUCTIONS (CONT.)

- G. Install hydraulic hoses per the following instructions:
- 1. 7' (or 7'-10") hose(s) installation Connect one end of the hose to the front pump port (low pressure). Connect the other end of the hose to the rod end of the hoist cylinder (Reference DWGs 416763 and 552004).
- 2. 5' hose(s) installation Connect one end of the hose to the rear pump port (high pressure). Connect the other end of the hose to the base end of the hoist cylinder (Reference DWGs 416763 and 552004).
- H. Position and secure the filler strips (liner or sleeper) to the truck frame.

The VC6628 requires a minimum of 10-1/2" clearance above the truck frame.

NOTE: If the hoist needs to be mounted higher due to interference between the hoist knuckle and the truck frame, additional clearance above the truck frame will be required.

EXAMPLE:

Assuming that an 10-1/2" clearance is required and 6" long beams are on the truck body, a liner of at least 4 1/2" net will be required to obtain the minimum clearance required to mount the hoist.

6" + 4 1/2" = 10-1/2" minimum

 Position the body longitudinals (long beams) onto the truck frame / sub-frame.

NOTE: At least 2" clearance between the cab and closest point on the truck body is required.

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J.

- a. STANDARD HINGE (662806)
 - With the body aligned with the truck frame, push the hinge rockers outward as far as possible. Ensure that the longitudinal rails are sitting flat on the rockers, weld the body longitudinals to rockers (DWG 662871 Figure 2). See installation DWG 628861 for more information regarding the mounting of the rear hinge rockers to the body.
- K. **Refer to DWG 520093 on the following page**. Make sure that the dump body longitudinals are resting flush on the top of the lifting angles. Weld the top of both lifting angles (the vertical 'leg') to the top flanges of the body longitudinals a reinforcement plate may be required to fill the space between the lifting angles and body longitudinals. Weld all around the lifting angles, body longitudinals, and reinforcement plates (if applicable). **Be sure that your installation follows the method shown on the following page** (DWG 520093).



CAUTION



 Step "K" (above) is a critical installation procedure that must be carefully followed to ensure a successful hoist installation. Deviation from the suggested installation method may result in damage to the hoist.



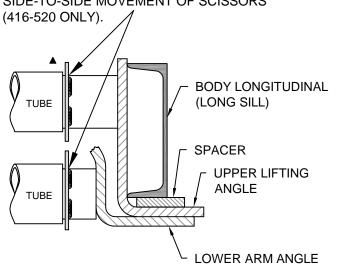
VC6628	12-17-15	662873
MOUNTING INSTRCTNS	08-01-17A	H200
TITLE	DATE	SECTION

IMPORTANT!

WHEN INSTALLING THE UPPER LIFTING ANGLES, THE GOAL IS TO COMPLETELY "BOX IN" THE LIFTING ANGLE, BODY LONG SILL SPACER, AND REINFORCEMENT PLATE - 100% WELD.

SITUATION A: LIFTING ANGLE FULLY ENVELOPS BODY LONG SILL.

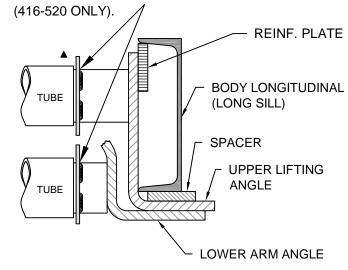
▲ COLLAR SHOULD BE PROPERLY LOCATED AND STITCH WELDED TO PIVOT ROD TO LIMIT SIDE-TO-SIDE MOVEMENT OF SCISSORS (416-520 ONLY)



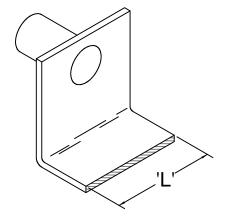
SITUATION B: LIFTING ANGLE DOES NOT ENVELOP BODY LONG SILL AND A REINFORCEMENT PLATE IS REQUIRED.

▲ COLLAR SHOULD BE PROPERLY LOCATED AND STITCH WELDED TO PIVOT ROD TO LIMIT SIDE-TO-SIDE MOVEMENT OF SCISSORS

(416-520 ONLY)

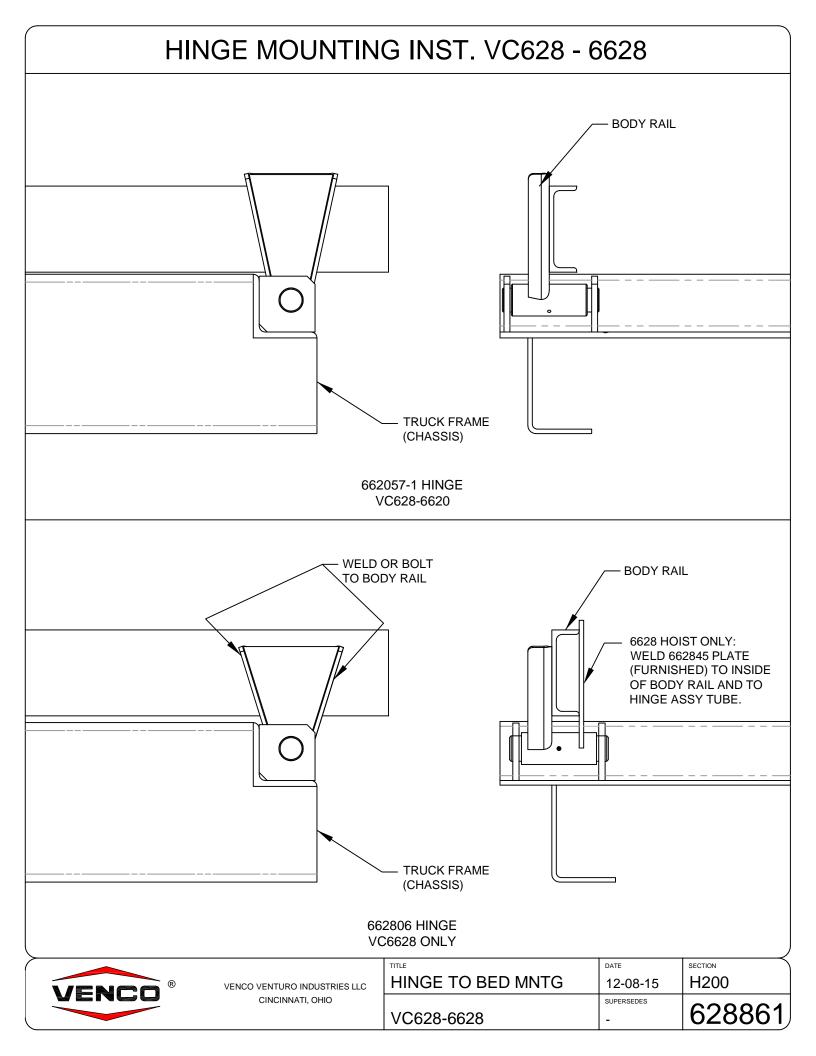


NOTE: THE SPACER AND REINFORCEMENT PLATE SHOULD BE THE SAME LENGTH AS THE LIFTING ARM. SEE 'L' DIMENSION BELOW.



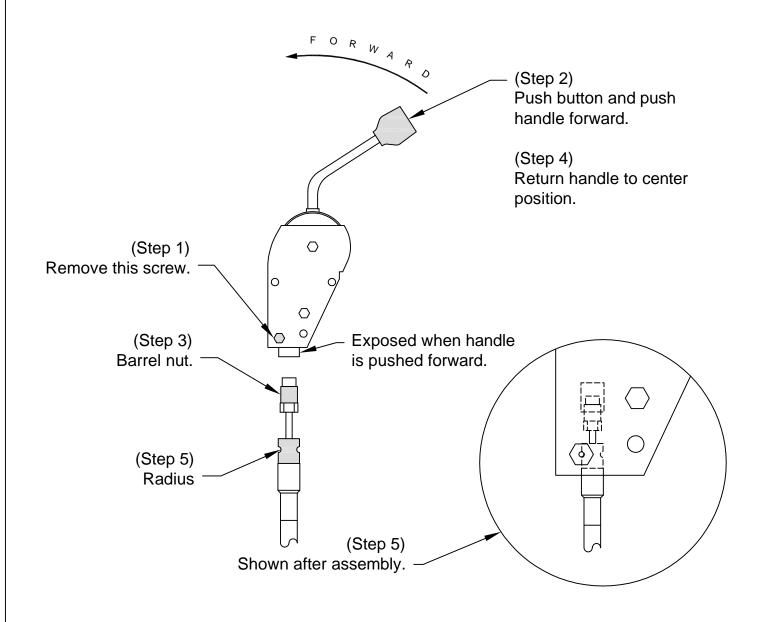


VC416-6628, TRI R313-6628	SUPERSEDES 01-14-13D	520093
INSTLL. INSTRUCTIONS	08-20-14E	H200
TITLE	DATE	SECTION



ATTACHING 620129 CABLE TO 620131 / 132 HANDLE

- Step 1. Remove lowest screw & nut.
- Step 2. Depress red button on top of handle. Push handle forward and hold.
- Step 3. While holding handle, thread "barrel nut" into threaded hole in bottom and tighten.
- Step 4. Release handle. Handle should return to center positon.
- Step 5. Replace screw & nut, making sure that radius on cable end is aligned with screw hole. After tightening screw, move handle forward and backward to make sure cable end is secure in console.





CABLE / HANDLE ASSY

11-05-15B SUPERSEDES

03-17-14A

62024

SECTION

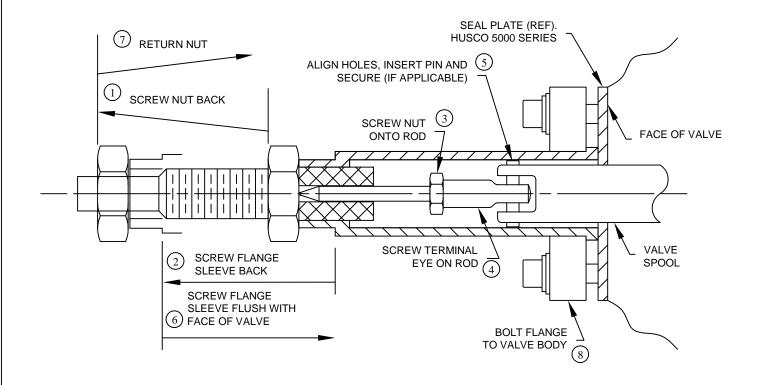
PTO PUMP CABLE

PTO PUMP CABLE INSTALLATION

- Thread 0.750-16 UNF jam nut entire length of threaded hub and onto cable. 1.
- 2. Place flange on sleeve and turn flange / sleeve assembly entire length of threaded hub and onto cable.
- 3. Threade 0.250-28 UNF jam nut onto threaded rod until it bottoms.
- Thread terminal eye onto threaded rod and bottom against jam nut, turn to align with spool slot and secure jam nut against terminal eye.
- 5. Slide terminal eye into slot in spool and align holes. Insert connecting pin and secure with cotter pin (if applicable).
- With cable attached to valve and input device, thread the flange / sleeve assembly onto the threaded hub until it is flush with the valve face. When turning the flange / sleeve assembly, make sure the input device remains in the neutral
- Tighten the 0.750-16 UNF jam nut against the sleeve to lock in position.
- Bring flange into position and bolt assembly to valve housing using two [2] socket head cap screws and two [2] split lock washers under head and two [2] flat washers under lockwashers. Tighten screws sufficiently to flatten lock washers or secure flange (see CAUTION).

CAUTION

Excessive torque or overtightening will distort flange.





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PTO PUMP CABLE INSTL

11-05-15B SUPERSEDES

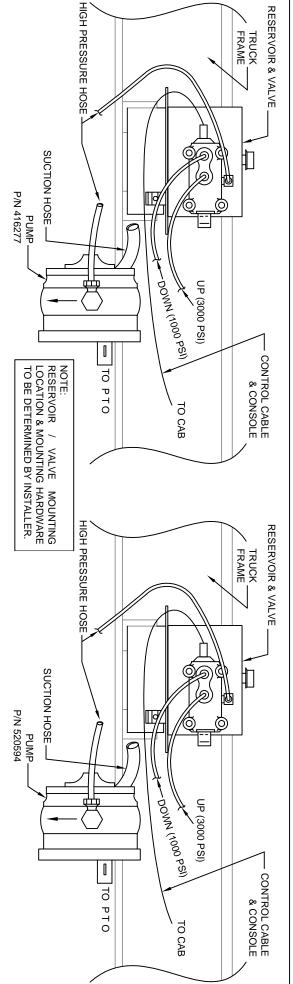
SECTION

VC416-6628

03-17-14A

DIRECTIONAL PUMP CONFIGURATION FOR VC416-620

BI-DIRECTIONAL PUMP CONFIGURATION FOR VC628 & UP



NOTE: ARROW ON PUMP HOUSING INDICATED ROTATION DIRECTION. FAILURE TO MATCH PTO ROTATION WITH PUMP ROTATION WILL RESULT IN PUMP FAILURE.

NOTE: FOR BI-ROTATIONAL PUMP MOUNTING AND HOSE CONNECTION INFORMATION, SEE DWG 416812 (IF APPLICABLE).

		Pump/Valve/Tank 620011 (9 QÜART)	pump)	Suction Hose (reservoir to	to valve)	se (pump 416045 (7' LG. 3/8 HOSE)	Cylinder Down Hose 416045	Cylinder Up Hose 416044	Control Cable & Console	
•	ypm)	UART)	620909 (10' LG, 3/8 HOSE) FOR VC620 NON-SF 416045 (7' LG, 3/8 HOSE) FOR VC620 SF 620910 (10' LG, 1.00" I.D.) FOR VC620 NON-SF 416079 (7' LG, 1.00" I.D.) FOR VC620 SF		520574	620125 - Curved 620124 - Straight	V CO20			
			Ş			၈	628041		 Straight 	V 0020
•	520594 (10gpm)	662077 (21 QUART)		520088E (10' G. 1-1/4" D.)	620909 (10' LG, 3/8 HOSE)		(2) 416045 (2) 628041	(2) 520574		ACCOSO ACCOSO



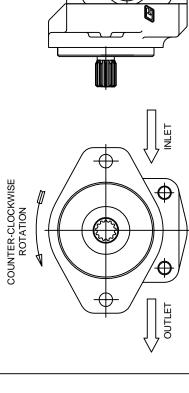
VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

SPLIT PUMP

VC416-6628

BI-ROTATIONAL PUMP INSTALLATION

CLOCKWISE ROTATION PTO REQUIRES COUNTER-CLOCKWISE ROTATION PUMP



·INLET

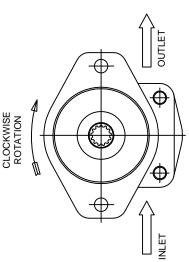
COUNTER-CLOCKWISE ROTATION PTO REQUIRES CLOCKWISE ROTATION PUMP

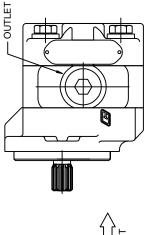
TO VERIFY THE INLET PORT ON A BI-ROTATIONAL PUMP, DETERMINE WHICH WAY THE SHAFT OF THE PUMP IS GOING TO TURN FROM THESE TWO SAMPLE DIAGRAMS AND PLUMB

DO NOT OPERATE THE PUMP WITHOUT OIL.

ACCORDINGLY.

NOTE





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VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

TITLE

BI-ROTATIONAL PUMP INSTALLATION VC628-6628

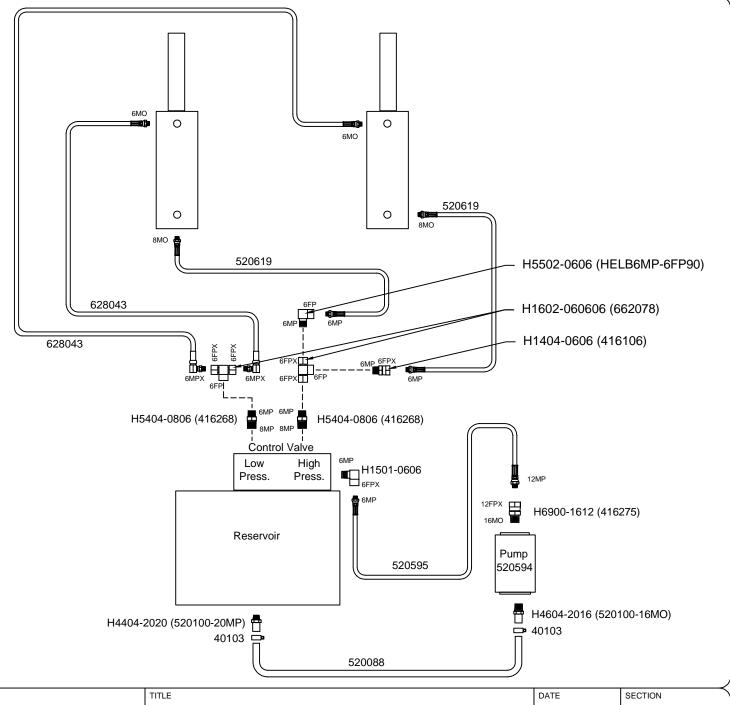
06-02-05

SECTION

DATE

12-09-15A

SUPERSEDES





Williams. Machine & Tool Co.

MANUFACTURERS OF HYDRAULIC PISTON PUMPS

CAUTION (

 The gear pump you have purchased is a single rotation Gear Pump. Installation of this Gear Pump into a system that does not match the rotation of the Gear Pump may result in personal injury and/or property damage.

The Gear Pump you have purchased is a single rotatation Gear Pump. The direction of rotation can be found by using the Williams Machine and Tool Co.'s Model Number. Directly following the Model Number are the letters CCW or CW. These letters indicate the direction of rotation for the Gear Pump. CCW indicates a counter-clockwise rotation. CW indicates a clockwise rotation. Pump shaft rotation is determined by viewing pump from the shaft end.

Example: GP1538 CCW. The CCW indicates a counter-clockwise roation.

To verify the direction of rotation of your Gear Pump, perform the following steps:

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- 1.) Locate the Part Number on the Gear Pump. The Part Number, Serial Number, and date code are located on the rear of the Gear Pump.
- 2.) Part Numbers ending in an even number are clockwise roation (CW). Part Numbers ending in an odd number are counter-clockwise rotation (CCW).

Example:

1830201. The last number is 1 (an odd number). This indicates a counter-clockwise rotation (CCW).

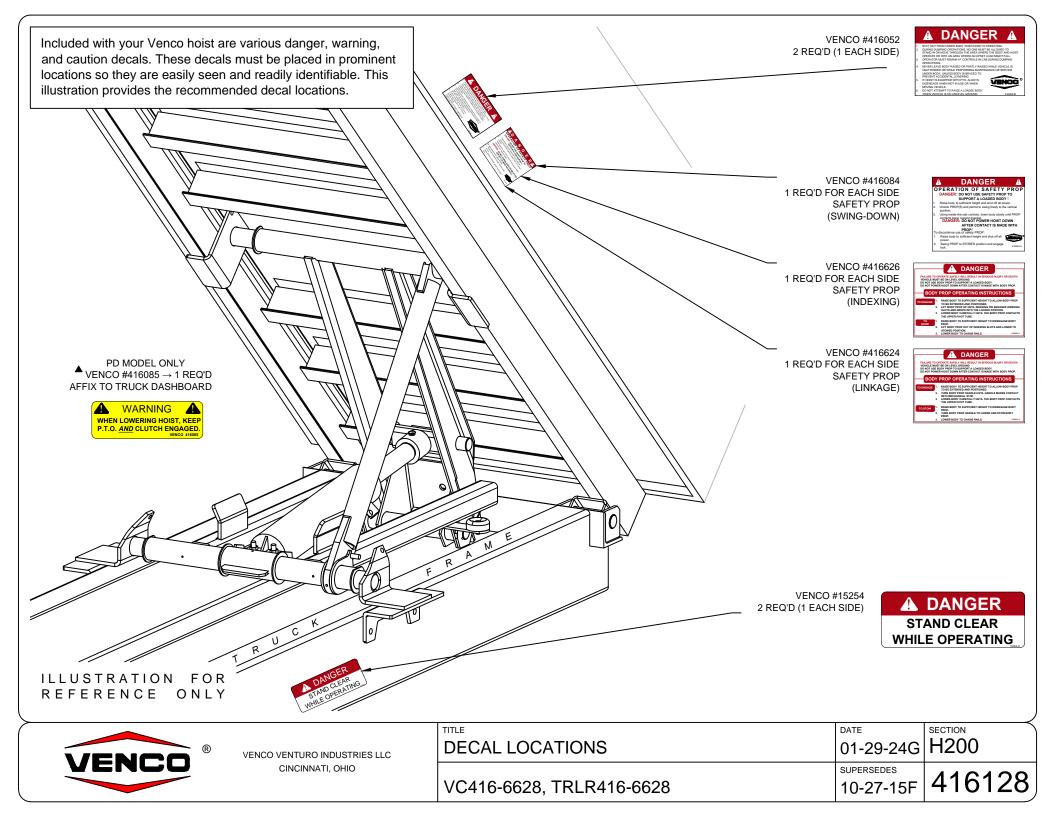
Date GP Serial #
Part Number

The following chart specifies torque requirements for the SAE O' ring plugs installed into the side or rear ports of the Gear Pump. Any combination of inlet and outlet ports may be used, ie., inlet large rear port. outlet small side port; inlet large side and outlet small rear ports; or both side ports or both rear ports. One inlet and one outlet part must be plugged for proper Gear Pump operation.

PORT SIZE (SAE)	TORQUE (FT. LBS)	
3/4 - 16	15 - 20	
7/8 - 14	20 - 25	
1 - 1/16 - 12	30 - 35	
1 - 5/16 - 12	45 - 50	
1 - 5/8 - 12	65 - 70	



_	03-17-14C	416287
	CLIDEDCEDEC	
WILLIAMS PTO WARNING	11-05-15D	H200
TITLE	DATE	SECTION



SECTION 250

OPERATION



HOIST MAINTENANCE AND OPERATION INSTRUCTIONS

- A. Hoist unit lubrication
 - 1. Lubricate all grease fittings on the hoist unit.
 - 2. Lubricate the rear hinge assembly.
 - 3. The hoist system should be serviced at the same time the truck is serviced, and sooner if the hoist unit is performing heavy duty service.
 - 4. Pump Reservoir → Shall be filled with the recommended oil per the manufacturer's instructions. Periodically check the hydraulic fluid and change when the truck engine oil is changed.
- B. PTO Pump Operation

With the hoist and body completely installed, cycle the hoist several times to purge the hydraulic system of air. Operate the hoist system per the instructions in this manual and per the PTO manufacturer's instructions.



- Do not operate the pump at more than 1000 RPM. Severe hoist system damage could result. The PTO speed to engine speed is governed by the gear ratio of the PTO drive installed in the truck transmission.
- For long service and safety from VC hoists, it is important that the following procedure be followed each time the hoist is operated:
- 1. Engage the PTO from the truck cab and adjust the engine speed to obtain the correct PTO and lift speed desired.
- 2. Pull the pump stick out. This will cause the hoist to raise.
- 3. When the pump has reached its maximum capacity, the pump will bypass through the relief valve. To prevent the pump from bypassing, push the pump knob to the center / middle position. Whenever the pump knob is centered, the hoist will stop moving and hold its position.



- Do not allow the pump to bypass for long periods of time, as this will put stress on the hydraulic and electrical systems of the hoist.
- 4. To lower the hoist, push the pump stick in.
 - NOTE: The Venco hoist powered by PTO drive pumps must be 'powered down'. Failure to 'power down' will cause the reservoir to overflow.
- 5. To lock the hoist against the truck frame when it is in the down position, push the pump knob in. When the pump bypasses, place the knob n the center 'hold' position.
- 6. Disengage PTO from transmission per the manufacturer's instructions.

CAUTION

• Do not drive the truck without first disengaging the PTO. Failure to disengage the PTO may result in severe damage to the pump and pump drive unit.



MAINT. & OPER. INSTRC. 11-05-15D H250

VC 520-6628 08-12-15C 520

CINCINNATI, OHIO

VENCO VENTURO INDUSTRIES LLC

BODY PROP OPERATION GUIDE - GENERAL INFORMATION

D. Body prop(s): Federal Regualtion 1926.601, Paragraph10, requires the use of a body prop. Accordingly, all Venco hoist units will have included as a standard item a body prop (safety strut). See Paragraphs D.1. & D.2. below.

- 1. The body prop is designed for use only when the truck body is **empty**. The purpose of the body prop is to provide a safety strut for use when maintenance or inspections are performed on an **unloaded** truck body in the raised position.
- 2. One [1] body prop shall be furnished for truck bodies up to and including 15 feet. For bodies longer than 15 feet in length, two [2] body props should be used.
- 3. Venco hoists are equipped with one of three types of body props: *Indexing*, *Swing-down* or *Linkage*. The chart below shows the hoist model number and the corresponding body prop types available.

▲

HOIST BODY PROP CONFIGURATION CHART					
HOIST MODEL	STD. BODY PROP TYPE	OPTIONAL LINKAGE BODY PROP	NAL LINKAGE BODY PROP DUAL BODY PROP	OPERATIONAL DECAL PART NUMBER	
VC416/516	INDEXING	OPTIONAL	NOT AVAILABLE	INDEX= 416626, LINKAGE= 416624	
VC520 INDEXING		OPTIONAL	NOT AVAILABLE	INDEX= 416626, LINKAGE= 416624	
VC620	SWING-DOWN		NOT AVAILABLE	SWING-DOWN=416084, LINKAGE=416624	
VC628	SWING-DOWN		OPTIONAL	SWING-DOWN=416084	
VC6620	SWING-DOWN	NOT AVAILABLE	OPTIONAL	SWING-DOWN=416084	
VC6628	SWING-DOWN	NOT AVAILABLE	STANDARD	SWING-DOWN=416084	

NOTE: For an illustration and operating instructions for each body prop type, see page 416645 in this manual.

4. Special Precautions for Swing-down Body Props -

- Make sure the truck is parked on a flat level surface.
- Use a suitable tool to pull out the Spring-loaded release pin (stowage device) to release the body prop from the hoist frame. This will release the body prop allowing it to swing downward to a vertical position.
- Make sure that the body prop is aligned with the body prop foot rest (the body prop will be in a vertical position), then allow the truck body to move downward until the body prop is seated in the foot rest.
 NOTE: DO NOT POWER DOWN AFTER MAKING CONTACT WITH BODY PROP FOOT REST
- To disengage the body prop, raise the truck body until the body prop swings freely away from the foot pad. Using
 a suitable tool, place the tool in a leverage position on the body prop and propel sharply to the left and upward (or
 to the right and upward) so that the locking pin can be compressed and seated in the locking pin hole. Make
 certain the body prop is latched securely before the hoist is operated.

WARNING

 Do not place arms, hands, or any part of the body between the truck longitudinals (long beams) or moving parts to pull the body prop release / locking pin.



Read operation of safety strut and caution labels **before** operating the hoist.

! WARNING

- Do not use the body prop(s) to support a loaded truck body.
- Body prop(s) should be free swinging to a vertical position after the locking pin is released

WARNING

Use care when reseating the body prop(s) in the locked position.

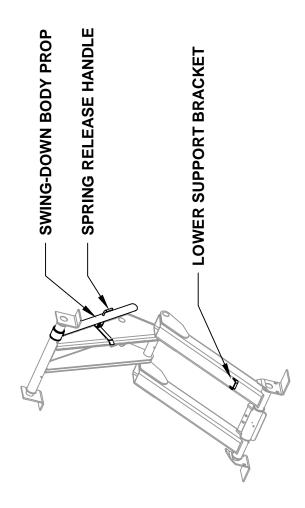


BODY PROP OP. GUIDE 11-05-15A H250	16 - VC6628 HOISTS 5-28-14	416644
	Y PROP OP. GUIDE 11-05-15A	\ H250 ▲
TITLE DATE SECTION	DATE	SECTION

VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

BODY PROP OPERATION GUIDE - ILLUSTRATIONS & INSTRUCTIONS

VC628 - VC6628 (STANDARD) SWING-DOWN BODY PROP



NOTE: DUAL BODY PROPS ARE STANDARD ON HOIST MODEL VC6628. REFER TO THE HOIST BODY PROP CONFIGURATION CHART ON DRAWING 416644 TO DETERMINE THE AVAILABILITY OF DUAL BODY PROPS FOR OTHER HOIST MODELS.

▲ D A N G E R ▲

OPERATION OF SAFETY PROP DANGER: DO NOT USE SAFETY PROP TO SUPPORT A LOADED BODY!

- Raise body to sufficient height and shut off all power.
- Unlock PROP(S) and permit to swing freely to the vertical position
- Using inside-the-cab controls, lower body slowly until PROP contacts lower support bracket.

DANGER: DO NOT POWER HOIST DOWN AFTER CONTACT IS MADE WITH PROP!

To discontinue use of safety PROP:

- 1. Raise body to sufficient height and shut off all VENCO
- Swing PROP to STORED position and engage lock



WENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

BODY PROP OPERATIONS	VC628-6628

628645

H250

12-09-15 SUPERSEDES

DATE

SECTION 300

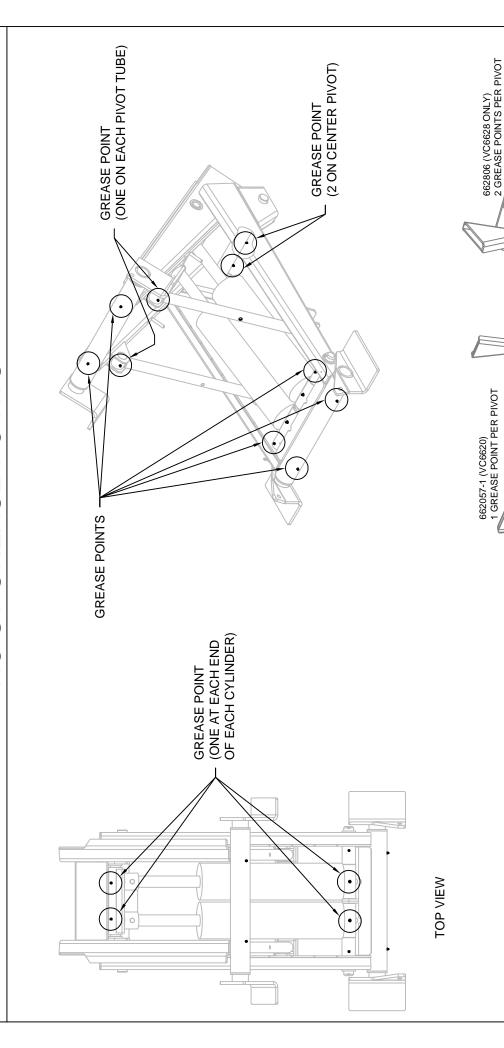
MAINTENANCE

&

SERVICE



HOIST GREASE POINTS



TO ENSURE THE RELIABLE PERFORMANCE OF YOUR VENCO HOIST, IT IS NECESSARY THAT YOU GREASE THE HOIST AT THE TIME OF TRUCK SERVICE WITH CHASSIS GREASE. THE GREASE POINTS FOR THE HOIST SCISSORS AND REAR HINGES ARE SHOWN ABOVE. ADDITIONAL FITTINGS FOR TWIN CYLINDER HOISTS AND ADDITIONAL BODY PROPS ARE ALSO NOTED.

GREASE POINT PER PIVOT



VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

GREASE POINTS FOR HOISTS TITLE

VC6620/6628

12-14-15 SUPERSEDES

SECTION

DATE

SECTION 400

REPLACEMENT PARTS



PART NO .: 416052

DECAL: DANGER STAY CLEAR

FUNCTION: To provide operator with a summary of key

hoist operating procedures.

QUANTITY:

PLACEMENT: One on each side of body.

STAY OUT FROM UNDER BODY WHEN HOIST IS OPERATING.
DURING DUMPING OPERATIONS, NO ONE MUST BE ALLOWED TO STAND
IN OR MOVE THROUGH THE AREA WHERE THE BODY AND HOIST
OPERATE OR INTO AN AREA WHERE AN UPSET LOAD MIGHT FALL.
OPERATOR MUST REMAIN AT CONTROLS IN CAB DURING DUMPING
OPERATIONS.
NEVER LEAVE BODY RAISED OR PARTLY RAISED WHILE VEHICLE IS
UNATTENDED OR WHILE PERFORMING MAINTENANCE OR SERVICE
UNDER BODY, UNLESS BODY IS BRACED TO
PREVENT ACCIDENTAL LOWERING.
IF HOIST IS EQUIPPED WITH PTO, ALWAYS
DISENGAGE WHEN NOT IN USE OR WHEN
MOVING VEHICLE.
DO NOT ATTEMPT TO RAISE A LOADED BODY
WHEN VEHICLE IS ON UNLEVEL GROUND.

416052-B



PART NO .: 416084 (VC620-VC6628 MODELS ONLY)

SAFETY PROP OPERATION DECAL:

FUNCTION: To inform the operator of proper operation

of safety prop.

QUANTITY: 1 For each safety prop.

PLACEMENT: On side of body closest to safety prop(s).

D A N G E OPERATION OF SAFETY PROP DANGER: DO NOT USE SAFETY PROP TO SUPPORT A LOADED BODY!

Raise body to sufficient height and shut off all power Unlock PROP(S) and permit to swing freely to the vertical position

Using inside-the-cab controls, lower body slowly until PROP contacts lower support bracket.

DANGER: DO NOT POWER HOIST DOWN AFTER CONTACT IS MADE WITH PROP!

To discontinue use of safety PROP:

1. Raise body to sufficient height and shut off all

power.
Swing PROP to STORED position and engage lock.

PART NO.: 416626 (VC416,516 & 520 MODELS ONLY)

DECAL: SAFETY PROP OPERATION, 'INDEXING' ONLY

FUNCTION: To inform the operator of proper operation of

safety prop.

QUANTITY: 1 For each safety prop.

PLACEMENT: On side of body closest to safety

prop(s).

A DANGER

FAILURE TO OPERATE SAFELY WILL RESULT IN SERIOUS INJURY OR DEATH VEHICLE MUST BE ON LEVEL GROUND.

DO NOT USE BODY PROP TO SUPPORT A LOADED BODY.

DO NOT POWER HOIST DOWN AFTER CONTACT IS MADE WITH BODY PROP.

BODY PROP OPERATING INSTRUCTIONS

RAISE BODY TO SUFFICIENT HEIGHT TO ALLOW BODY PROP TO

BE EXTENDED AND POSITIONED.
LIFT BODY PROP UP UNTIL INDEXING PIN ENGAGES INDEXING
SLOTS AND DROPS INTO THE LOCKED POSITION.
LOWER BODY CAREFULLY UNTIL THE BODY PROP CONTACTS
THE LUDGED DIVOT TIBE.

THE LIPPER PIVOT TUBE

RAISE BODY TO SUFFICIENT HEIGHT TO DISENGAGE BODY

PROP.
LIFT BODY PROP OUT OF INDEXING SLOTS AND LOWER TO

PART NO.: 15254

DECAL: CAUTION STAND CLEAR

FUNCTION: To inform the operator to stay clear of body /

hoist.

QUANTITY:

PLACEMENT: One on each side of truck frame.

DANGER

STAND CLEAR WHILE OPERATING

PART NO .: 416085

DECAL: WARNING WHEN LOWERING

FUNCTION: To inform the operator to keep P.T.O. and

clutch engaged when lowering the hoist.

QUANTITY: 1

PLACEMENT: Affixed to truck dashboard.



WARNING

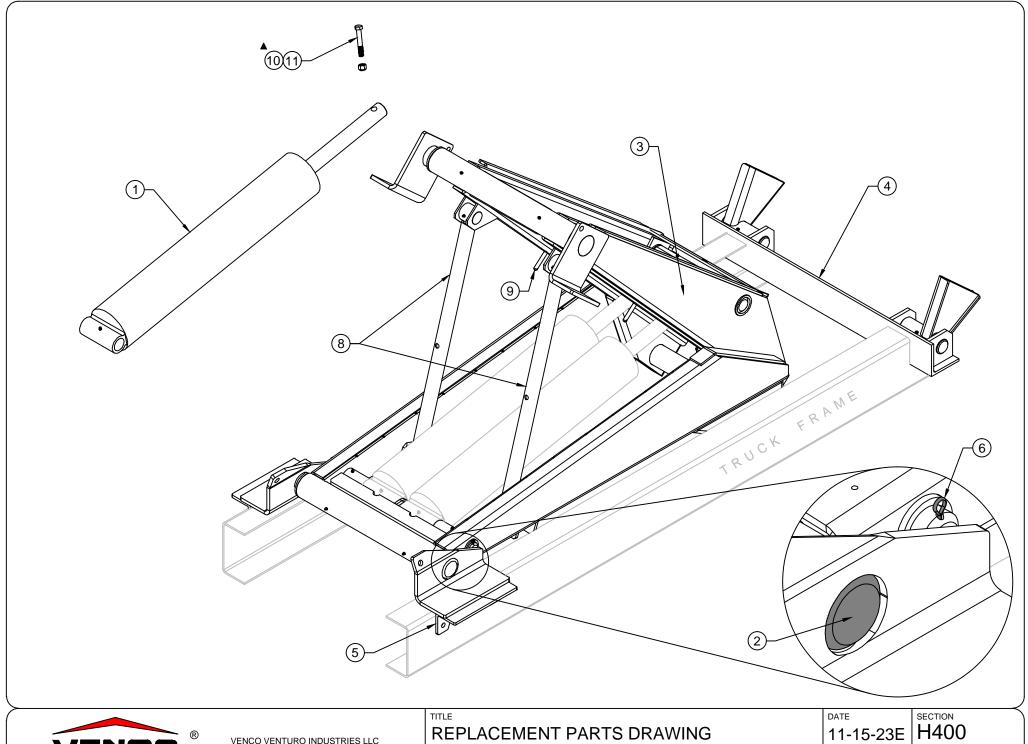


WHEN LOWERING HOIST, KEEP P.T.O. AND CLUTCH ENGAGED.



VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

TITLE	DATE	SECTION
DECAL LIST	11-05-15E	-
	SUPERSEDES	00000
VC/TRLR 416-6628	03-26-14D	628820





VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

REPLACEMENT PARTS DRAWING

SUPERSEDES

VC6628

12-17-15D

662853 REPLACEMENT PARTS LIST

	ITEM	PART NUMBER	QTY.	DESCRIPTION
	1 2 3 4 5	628900 662808 662809 662806 520920	2 1 1 1 2	CYLINDER; 6" BORE X 20" STROKE LOWER CYLINDER PIVOT SHAFT SCISSORS ASSEMBLY REAR HINGE ASSEMBLY MOUNTING ANGLE
•	6 7 8 9 10	416010 - 662836 662860 !HHCS06311400-8	2 - 2 2 1	COTTER PIN; 1/4" X 3" - BODY PROP (STANDARD) PIN; BODY PROP KEEPER HHCS; 5/8-11 X 4 GR.8
A	11 12 13 14 15	!LNUT-06311-8 - - -	1 - - -	LOCK NUT; 5/8-11, GR. 8, ZNC/YLW, NYL-INSERT
	16 17 18 19 20	- - - -	- - - -	- - - -
	21 22 23 24 25	- - - -	- - - -	- - - -
	26 27 28 29 30	- - - -	- - - -	- - - -
	31 32 33 34 35	- - - -	- - - -	- - - -

REPLACEMENT PARTS DWG REF 662853



VC6628	SUPERSEDES 12-17-15F	662854
RPLCMNT PARTS LIST	11-15-23G	H400
TITLE	DATE	SECTION

CABLE & CONSOLE KITS; 620125 (CURVED) & 620124 (STRAIGHT) 620130 CABLE CONNECTOR KIT 620131 HANDLE, CURVED LEVER 620132 HANDLE, STRAIGHT LEVER CONTROL CABLE PUMP VALVE 620129 0 0 0 0 620126 CURVED HANDLE CABLE ASSEMBLY 620127 STRAIGHT HANDLE CABLE ASSEMBLY 416751 PTO CONTROLLER BRACKET DECAL - DIRECT MOUNT PUMP !HHCS03118250 HHCS 5/16-18 X 2-1/2" LG NYLON LOCK NUT 5/16-18 !LNUT-03118 620128

620245 SECTION H400 03-17-14A 10-29-15B SUPERSEDES DATE REPLACEMENT PARTS DWG & LIST PTO PUMP CABLE TITLE

> VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

USER NOTES



HOISTS	SUPERSEDES	516919
USER NOTES (1)	09-17-15	-
TITLE	DATE	SECTION

USER NOTES



HOISTS	SUPERSEDES	516919
USER NOTES (1)	09-17-15	-
TITLE	DATE	SECTION

VENCO HOISTS LIMITED WARRANTY POLICY



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

As a purchaser of any new Venco product covered by warranty, you will receive 3 years of the most complete coverage available...and, at no added cost to you.

3-Year Limited Warranty Policy

This limited policy warrants new products of Venco to be free from defects in material and workmanship for a period of three (3) years from date of original installation. OEM products or accessories purchased by Venco 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. Venco hoists are designed for and intended to be used on stationary trucks dumping on firm and level ground. Spreading applications and/or shock unloading are strictly prohibited and will void this warranty. 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 Venco 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, Venco requires the model and serial number. Only authorized Venco Distributors can perform warranty. For the name and address of your local Venco 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 Venco Distributor. No modifications or alterations may be made to any Venco product without the expressed written consent of Venco Venturo Industries LLC. Installation of any Venco product must be done by an authorized Venco 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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