



OWNER'S MANUAL

PARTS & INSTALLATION MANUAL

VC416 / VC516

Included in this manual:

VC416

- w/ Universal Subframe
- Capacity & Application Charts

VC516

- w/ Universal Subframe
- Capacity & Application Charts

VENCO VENTURO INDUSTRIES LLC
12110 BEST PLACE | CINCINNATI, OHIO 45241
800-226-2238



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

VC416/516

INST-416860 - 11/18/2025 (Rev: B1)

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12-00073_VNC3	WARRANTY PAGE

READ THIS FIRST - INSTALLATION

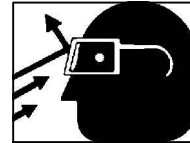
USE THE BODY PROP

- ▶ 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



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.



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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
INSTALLATION WARNINGS

HOISTS

DATE
12-11-23C

SUPERSEDES
11-07-23B

SECTION
-

520951

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.

 **DANGER**

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 stationary trucks, dumping on firm and level ground. Spreading applications and/or shock-unloading 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.

 **WARNING**

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.

 **CAUTION**

COULD RESULT IN MINOR OR
MODERATE INJURY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

OPERATOR WARNINGS

HOISTS

DATE

12-11-23B

SUPERSEDES

11-07-23A

SECTION

-

520952

SECTION 200

INSTALLATION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

VENCO HOIST MODEL VC416 (SF)

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: 10

CONVERSION CLASS: B

WEIGHT: 450 LBS., W/ SF: 550 LBS.

POWER SOURCE:

ES - ELECTRIC SINGLE ACTING

ED - ELECTRIC DOUBLE ACTING

PD - POWER TAKE OFF DOUBLE ACTING

ADDITIONAL DATA:

4" BORE x 16" STROKE

CA: 60" - 108"

DUMP ANGLE: 40° - 50°

W/ SF: 45° OR 50°

MOUNTING HEIGHT REQ'D: 5-3/4", LONG BEAMS 5"

CONVERSION APPLICATIONS VC416				
BODY	CA	OH	45° (TON)	50°(TON)
8'	60"	6"	6.9	6.4
9'	60"	18"	8.0	7.4
9'	72"	6"	6.0	5.5
9' 6"	72"	12"	6.4	6.0
10'	60"	30"	9.7	8.8
10'	72"	18"	6.9	6.3
10'	84"	6"	5.4	5.0
12'	72"	42"	9.7	8.8
12'	84"	30"	6.9	6.3
12'	108"	6"	4.4	4.0

VC416 (SF) DUMP BODY APPLICATIONS *		
BODY	O.H.	50°(TON)
8'	12"	7.1
9'	12"	6.1
10'	12"	5.3
12'	12"	4.3

* 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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
CAPACITY CHART

VC 416 HOIST

DATE
11-05-15D

SUPERSEDES
01-22-15C

SECTION
H200 ▲

416266

VENCO HOIST MODEL VC516 (SF)

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: 20

CONVERSION CLASS: C

WEIGHT: 500 LBS., W/ SF: 600 LBS.

POWER SOURCE:

ES - ELECTRIC SINGLE ACTING

ED - ELECTRIC DOUBLE ACTING

PD - POWER TAKE OFF DOUBLE ACTING

ADDITIONAL DATA:

5" BORE x 16" STROKE

CA: 60" - 108"

DUMP ANGLE: 40° - 50°

W/ SF: 45° OR 50°

MOUNTING HEIGHT REQ'D: 5-3/4", LONG BEAMS 5"

CONVERSION APPLICATIONS VC516 (SF)				
BODY	CA	OH	45° (TON)	50°(TON)
8'	60"	6"	10.8	10.0
9'	60"	18"	12.6	11.5
9'	72"	6"	9.4	8.6
9' 6"	72"	12"	10.0	9.3
10'	60"	30"	15.1	13.8
10'	72"	18"	10.8	9.8
10'	84"	6"	8.4	7.8
12'	72"	42"	15.1	13.8
12'	84"	30"	10.8	9.8
12'	108"	6"	6.9	6.4
13'	84"	42"	12.6	11.5
13'	102"	24"	8.4	7.6
13'	108"	18"	7.5	6.9

DUMP BODY APPLICATIONS VC516 (SF) *		
BODY	O.H.	50°(TON)
8'	12"	11.1
9'	12"	9.5
10'	12"	8.3
12'	12"	6.7

* 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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
CAPACITY CHART

VC 516 HOIST

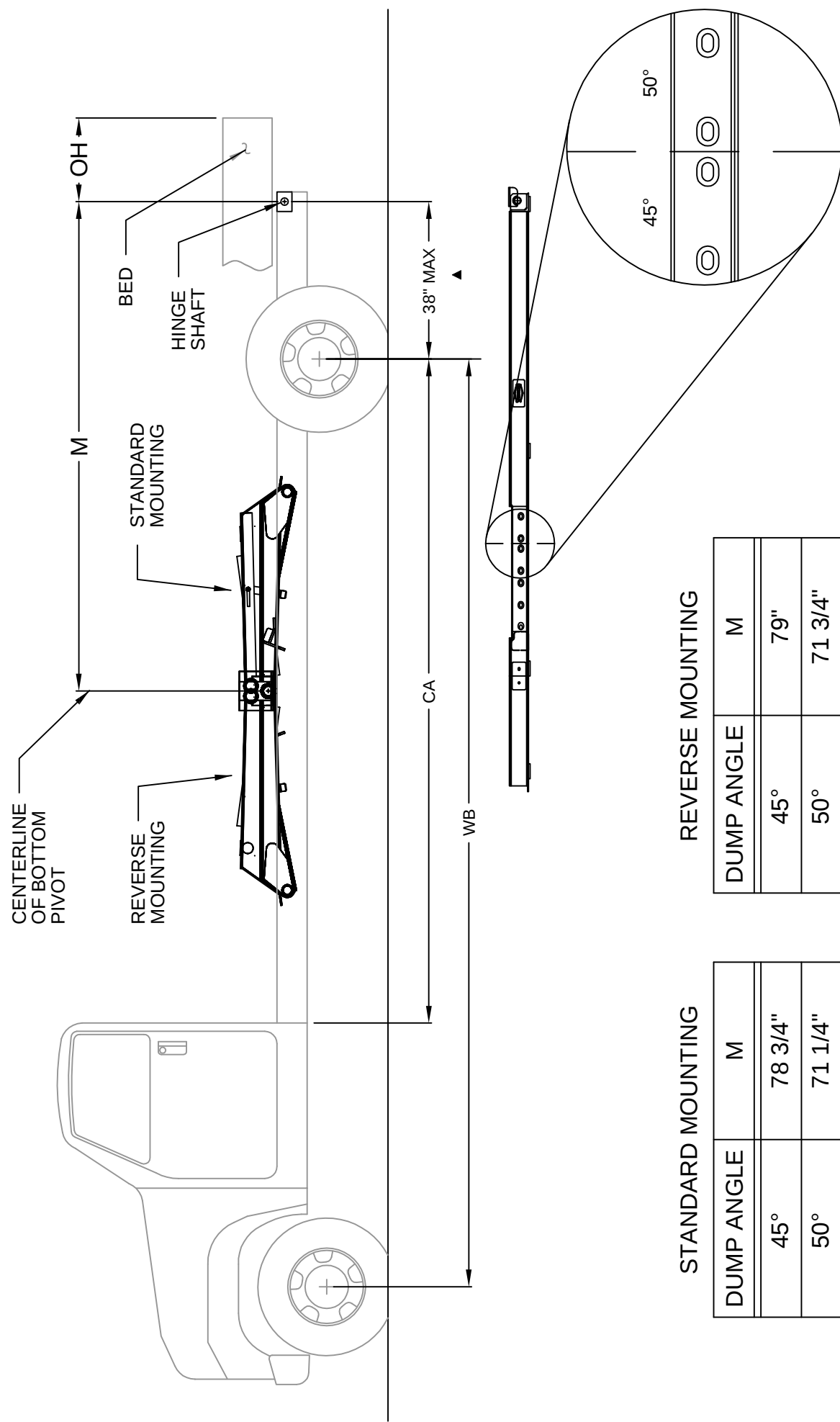
DATE
11-05-15D

SUPERSEDES
01-22-15C

SECTION
H200 ▲

516203

VC416/516 HOIST MOUNTING DIMENSIONS



STANDARD MOUNTING

DUMP ANGLE	M
45°	78 3/4"
50°	71 1/4"

REVERSE MOUNTING

DUMP ANGLE	M
45°	79"
50°	71 3/4"

NOTE: THE CROSSMEMBER / HYDRAULIC POWER UNIT MOUNTING BRACKET ACCOMMODATES **ES** & **ED** POWER UNITS. THE CROSSMEMBER IS '**FACTORY INSTALLED**' ON THE MAIN SUBFRAME AS SHOWN BELOW AND IS SET UP FOR AN '**ED**' HYDRAULIC POWER UNIT. IF SUBFRAME EXTENSIONS ARE USED, YOU CAN MOUNT THE POWER UNIT TO THE EXTENSIONS AS SHOWN.

NOTE: FOR **ES** POWER UNITS YOU MUST RELOCATE THE CROSSMEMBER TO THE '**ES**' MOUNTING SLOT POSITION AS SHOWN BELOW OR SWAP ENDS OF THE CROSSMEMBER TO SUIT.

NOTE: THE SCISSORS SUPPORT CROSSMEMBER CAN BE POSITIONED TO SUPPORT VC416 THRU VC620 MODEL HOISTS.

NOTE: THIS SUPPORT KEEPS THE HOIST '**LEVEL**' FOR OPTIMUM PERFORMANCE AND REDUCED WEAR.

CROSSMEMBER POSITIONING

VC416/516

VC520/620

SECTION A-A
CROSS MEMBER

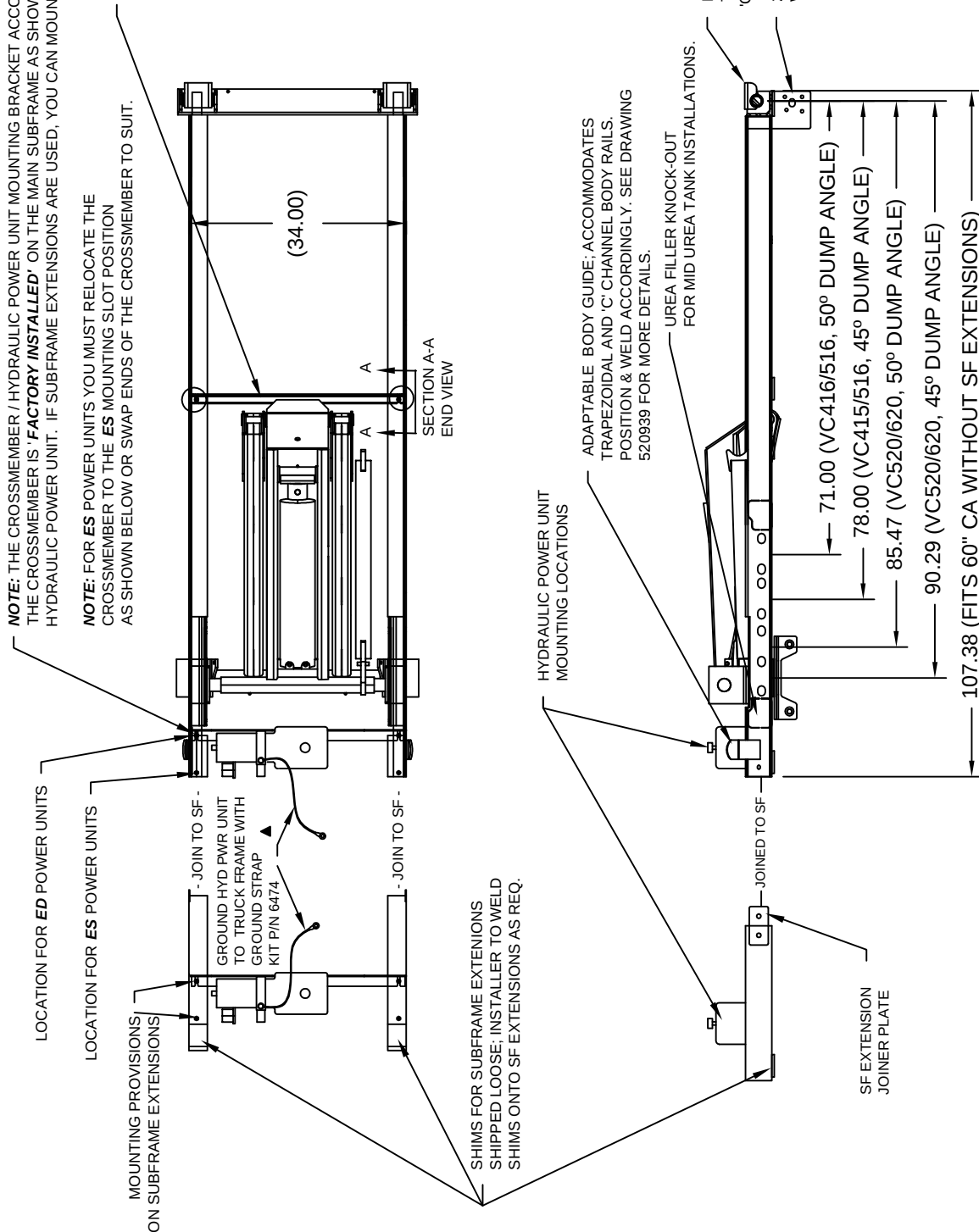
STANDARD SUPPORT

ALTERNATE ORIENTATION
(Only when required for greater clearance)

CAUTION

VC416, VC516, & VC520 ONLY

The alternate orientation shown above must be used if any portion of the hoist operation interferes with the vehicle's structure and/or components.



UNIVERSAL SUBFRAME SPECIFICATIONS			
HOIST MODEL	DUMP ANGLE	CA W/ NO SF EXTENSIONS	CA W/ SF EXTENSIONS
VC416/516	45° & 50°	60"	84", 108" & 120"
VC520/620	47° & 50°	60"	84", 108" & 120"

VENCO[®]

VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
UNIVERSAL SUB-FRAME FEATURES

DATE
07-07-17J

SECTION
-

SUPERSEDES
04-27-16H

520938

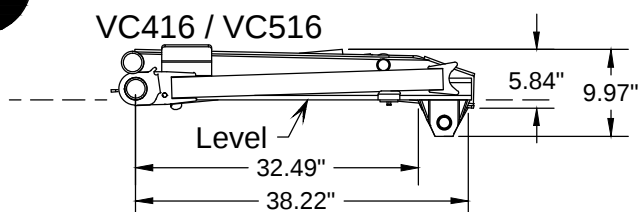
!! IMPORTANT WARNING !!

* ALL VENCO CONVERSION HOISTS → VC416 THRU VC6628 *

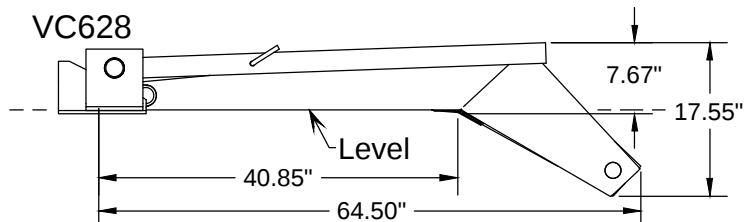
1

When installing the hoist, be sure to keep the hoist on a horizontal plane - LEVEL - with the truck frame.

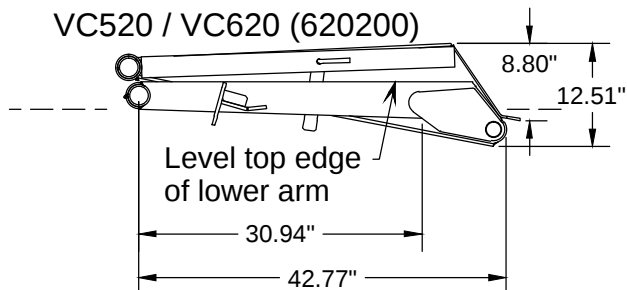
VC416 / VC516



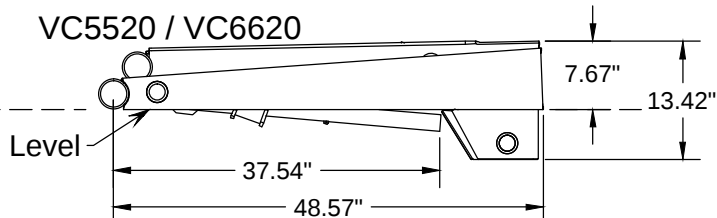
VC628



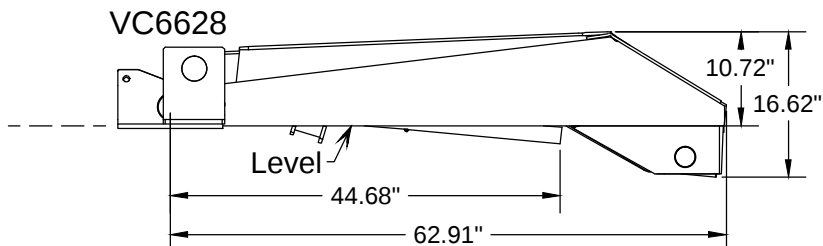
VC520 / VC620 (620200)



VC5520 / VC6620



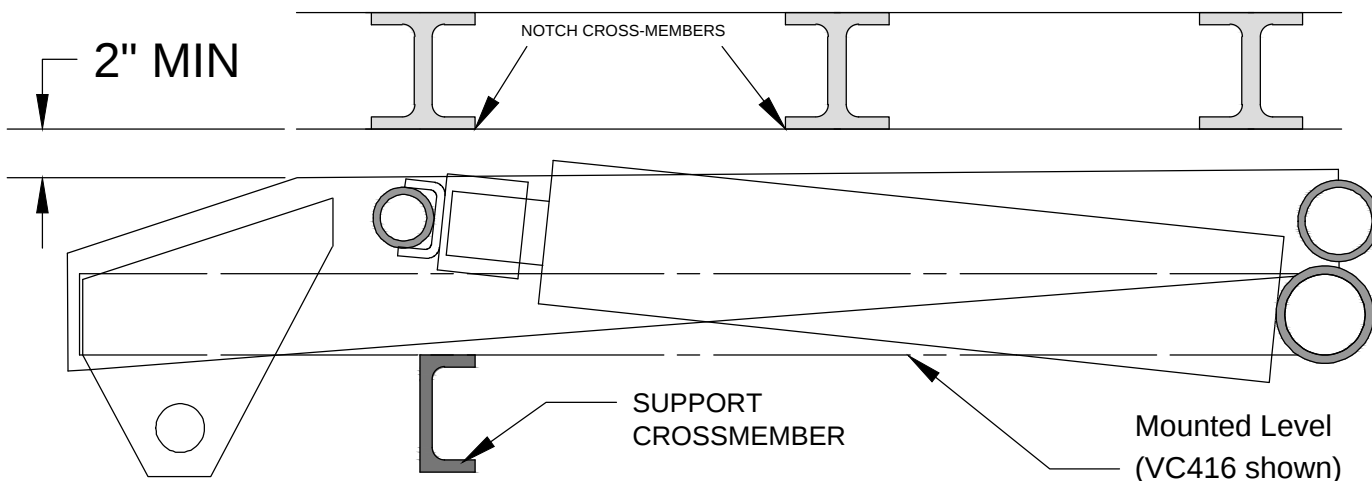
VC6628



2

!! 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 LLC
CINCINNATI, OHIO

TITLE
IMPORTANT WARNING

VENCO HOISTS

DATE
12-08-20P

SUPERSEDES
11-05-15N

SECTION
H200

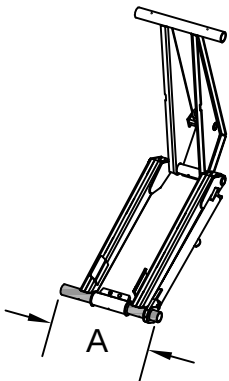
416086

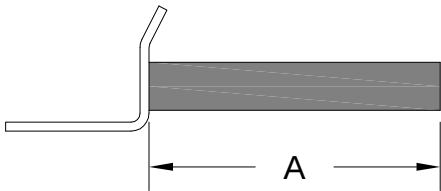
STANDARD HOIST MOUNTING INSTRUCTIONS

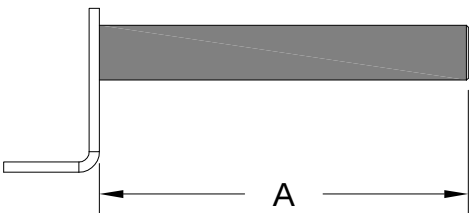
1. Moving the hoist along the truck frame forward or rearward will affect the hoist's performance. A forward movement will reduce the dump angle and increase capacity. A backward movement will increase dump angle and decrease capacity.
2. The VC416-520 Hoists are designed for 34" to 29.5" frame widths. The hoists are shipped from the factory for mounting on 34" O.D. frames. For a frame width O.D. smaller than 34", the following parts will have to be shortened as noted below.

QTY.	PART NO.	DESCRIPTION
1	520540	Lower Pivot Tube
2	520563	Lower Pivot Assy.
2	520562	Upper Lift Shaft Assy.

* Original length shipped from factory

Lower Pivot Tube 520540			
Frame Width		Dim A.	
34	*	25-13/16"	
31.3		23-5/16"	
29.5		21-5/8"	

Lower Pivot Assy. 520563			
Frame Width		Dim A.	
34	*	11-9/16"	
31.3		10-1/4"	
29.5		9-7/16"	

Upper Lift Shaft Assy. 520562			
Frame Width		Dim A.	
34	*	11-1/2"	
31.3		10-5/8"	
29.5		9-7/8"	



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
STND MNTNG INSTRCTN
VC416-520

DATE
10-23-15D
SUPERSEDES
03-26-14C

SECTION
H200
520101

HOIST MOUNTING INST. - VC416/516 NON-SUBFRAME

Refer to drawings 416266, 516203 (as applicable per hoist model).



CAUTION



- If the distance between the center of the rear axle and the rear hinge assembly exceed 38", additional reinforcement of the truck frame is necessary

- Mark the location for the rear hinge. Ideally, this location will be immediately behind a truck cross member approximately 38" behind the center of the rear axle on a single axle truck (see drawing 416286).
- Cut a 90° slot in each side of the frame as shown in Figure 2 below.
- Position the angle iron frame of the rear hinge assembly in the truck frame cut-outs. Make sure the rear hinge assembly is properly positioned on the truck frame. Weld all around truck frame rear hinge assembly joint (both sides).

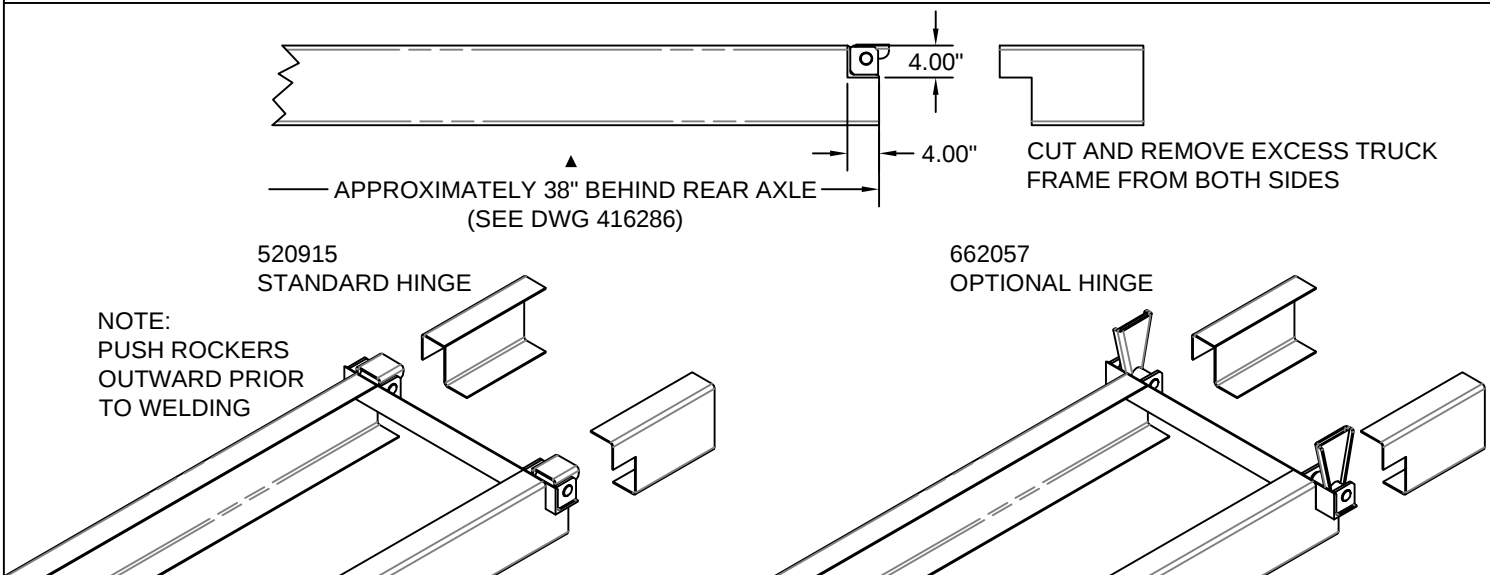


Figure 2 - Frame Modification and Rear Hinge Attachment



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CINCINNATI, OHIO

TITLE
MOUNTING INSTRCTNS
VC416/516 (NON-SF)

DATE
11-06-15C
SUPERSEDES
03-26-14B

SECTION
H200
416290

HOIST MOUNTING INSTRUCTIONS (NON-SF)

D. Locate the hoist on the truck frame, making sure to center and square the hoist to the truck frame. The VC-416/516 hoist is designed to rest on the truck frame as shown in Fig.3. A section of the hoist extends below the truck frame level, thus the hoist may have to be moved slightly forward or backward to avoid frame crossmembers. The distance between the rear hinge assembly center and hoist dimension. Table "A", figure 1 refers to dump angles associated with the "M" dimension.

▲ E. After the hoist is positioned, place a mounting angle (Fig. 3) under each of the lower pivots and against the truck frame. Clamp securely in place. Drill through the mtg. angle and frame (17/32") and fasten mounting angle with two [2] 1/2-13 X 1-1/2" hex head grade 8 bolts, lock washers and hex nuts (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. With the hoist lower pivot assys. clamped to the mounting angles (3-1/2x3-1/2x5/16-10" lg.), weld the lower pivot assy. to the mounting angles. Position and secure the filler strips (wood or steel) to the truck frame (see fig. 3) The VC416/516 hoist requires at least 5-3/4" clearance above the truck frame.

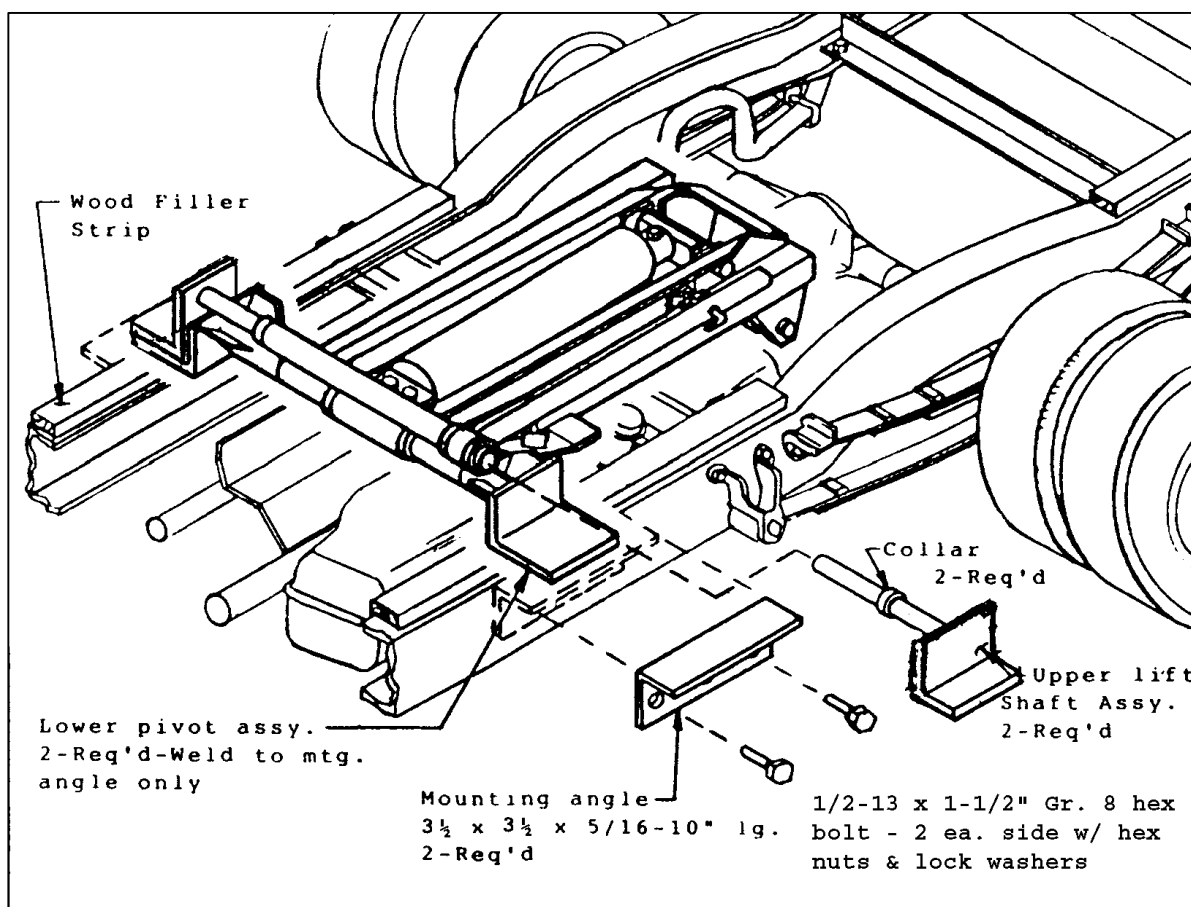


Figure 3 Mounting Angle/Lower Pivot Assembly



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MOUNTING INSTRCTNS

VC416/516

DATE
10-09-15D

SUPERSEDES
03-26-14C

SECTION
H200

416291

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 520621).
- ▲ 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 520621).

H. Position and secure the filler strips (liner or sleeper) to the truck frame.

The VC520 with sub-frame requires a minimum of 7-1/2" clearance above the truck frame.

The VC520 (non sub-frame) requires a minimum of 8" 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 (Non sub-frame model):

Assuming that a 8" clearance is required and 6" long beams are on the truck body, a liner of at least 2" net will be required to obtain the minimum clearance required to mount the hoist.

6" + 2" = 8" minimum

I. 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.

J.

a. STANDARD HINGE (520915)

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 520604 Figure 2). See installation DWG 662861 for more information regarding the mounting of the rear hinge rockers to the body.

b. OPTIONAL HINGE (662057)

Place the rear hinge brackets in the vertical position (DWG 520604 Figure 2). Weld and/or bolt the brackets to the longitudinals. If bolted, mark and drill each bracket four [4] places (17/32" holes) and secure the brackets to the longitudinals using eight [8] 1/2"-13 x 1-1/2" Grade 8 hex head cap screws, eight [8] 1/2" lock washers, and eight [8] 1/2"-13 hex nuts. See installation DWG 662861 for more information regarding the mounting of the rear hinge brackets 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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MOUNTING INSTRCTNS

VC416-VC620 ▲

DATE
07-31-17F

SUPERSEDES
01-12-16E

SECTION
H200

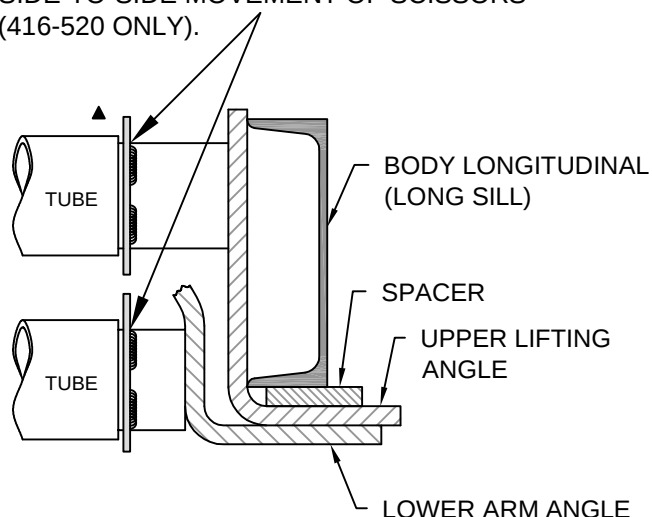
520609

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.

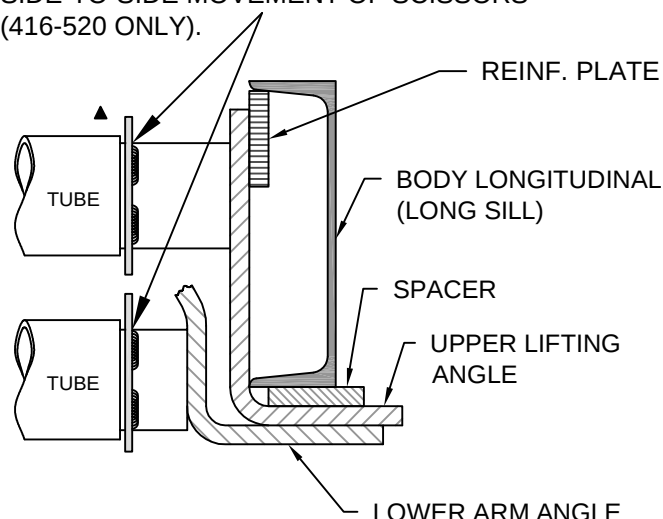
SITUATION A: LIFTING ANGLE FULLY ENVELOPS BODY LONG SILL.

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

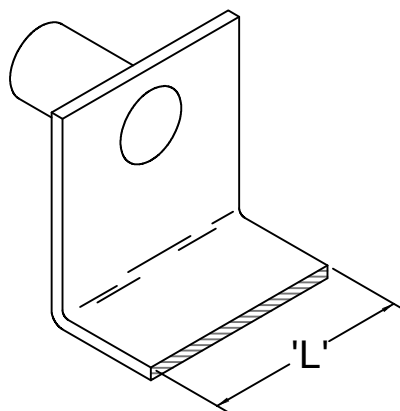


SITUATION B: LIFTING ANGLE DOES NOT ENVELOP BODY LONG SILL AND A REINFORCEMENT PLATE IS REQUIRED.

- ▲ 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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
INSTLL. INSTRUCTIONS

VC416-6628, TRLR313-6628

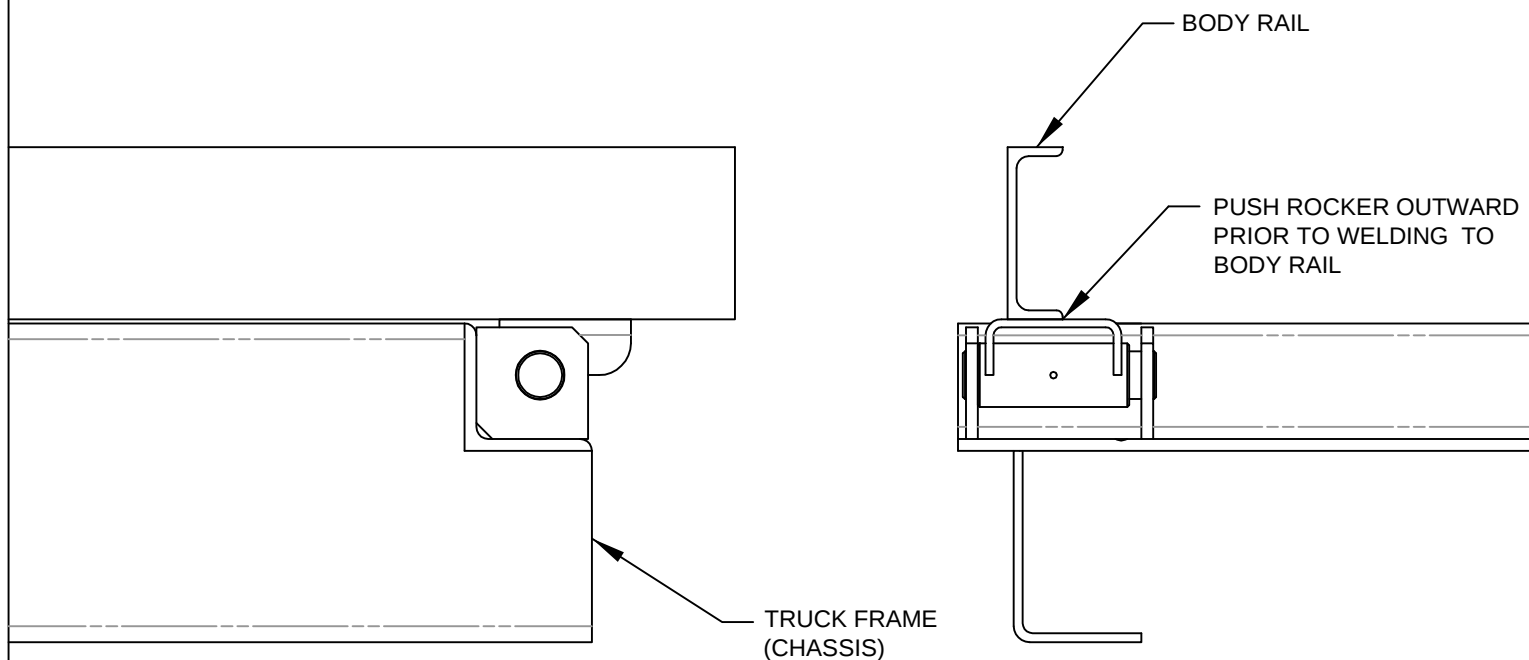
DATE
08-20-14E

SUPERSEDES
01-14-13D

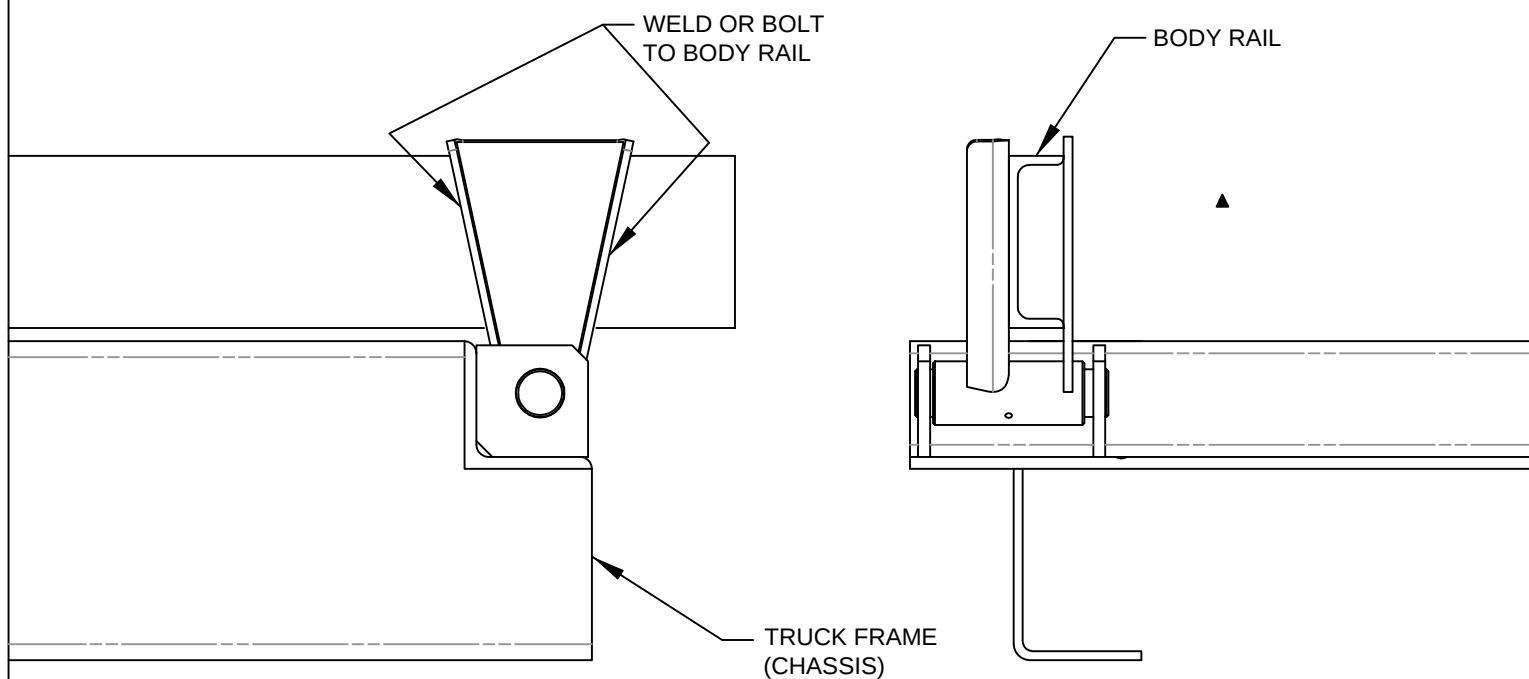
SECTION
H200

520093

HINGE MNTG INST. VC416 - VC620 NON-SUBFRAME



520915 HINGE
STANDARD → VC416-620



▲ 662057 HINGE
OPTIONAL → VC416-620



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

HINGE TO BED MNTG

VC416 - VC620 (NON-SF)

DATE

12-07-15E

SUPERSEDES

10-23-15D

SECTION

H200

662861

HOIST MOUNTING INST. - VC416-620 UNIVERSAL S/F

Refer to drawing 416266 (VC416), 516203 (VC516), 520602 (VC520), or 620104 (VC620) (preceding pages).

- A. Position hoist into the front half of the sub-frame by inserting the two lower pivot angles into the lower pivot tube on the scissors, and then positioning that assembly inside front half of sub-frame. The two holes on each lower pivot angle should match up with a set of holes on sub-frame mounting brace. The front hole set on sub-frame corresponds to a dump angle of 45°, and the rear to 50°. See DWG. 520938 for sub-frame features.

NOTE: Position scissor support cross-member for 50° or 45° dump angle accordingly.

- B. Fasten lower pivot angles to sub-frame using two [2] 1/2" x 1 1/2" hex head cap screws, lock washers, nuts, and four [4] flat washers (both sides). See DWG. 520608 Figure 4a.
- C. Position hoist with sub-frame front section onto truck frame.

NOTE: Refer to DWG. 520938 universal sub-frame features (section 100) for positioning the hydraulic power unit cross-member.

- D. Place rear section of sub-frame onto truck frame.

NOTE: Do not allow sub-frame to extend beyond truck frame. Sub-frame and hinge must be supported by truck frame.

- E. Trim off any truck frame that extends beyond the rear hinge.
- F. Fasten rear half of sub-frame to truck by welding the two shear plates (REF. P/N 520932) to rear hinge angle of sub-frame, drilling corresponding holes through truck frame, and using two [2] 1/2" x 1 1/2" hex head cap screws, lock washers, nuts, and four [4] flat washers (both sides).
- G. Install the sub-frame extensions (if required) using the provided hardware.
- H. After attaching the two halves, place mounting angles under the lower pivot angles and against truck frame. Clamp securely in place. Drill through frame, and install mounting angle with two [2] 1/2" x 1 1/2" hex head cap screws, lock washers, nuts, and four [4] flat washers (both sides). See figure 5.

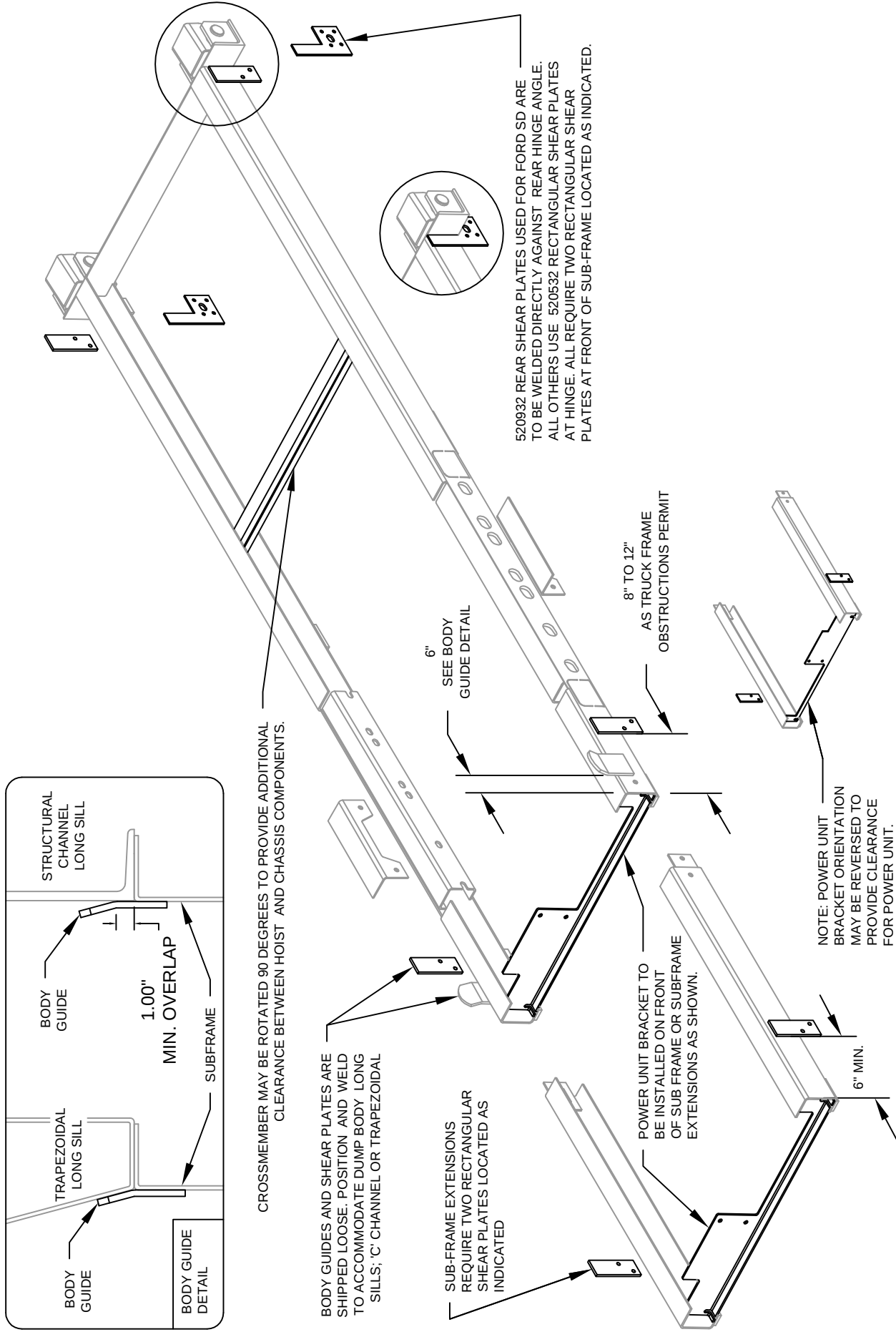
NOTE: Do not weld mounting angles to truck frame. This may void the truck's warranty.

- I. Weld each end of lower pivot angle to its mounting angle as shown on DWG. 520608, figure 4b. Note the welding symbols. Do not weld to truck frame.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
MOUNTING INSTRCTNS	11-05-15C	H200
VC416-620 UNIVSL S/F	SUPERSEDES 08-21-15B	520941



REPLACEMENT PARTS LIST REF 520940

 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE		SHEAR PLATE LOCATION DRAWING	
	DATE	SECTION	VC416-620 UNIVERSAL SUB-FRAME	
	10-26-15A	H200		
	SUPERSEDES			
	06-23-15	552009		

HOIST MNTG INST. VC416-6628 W/ SUB-FRAME

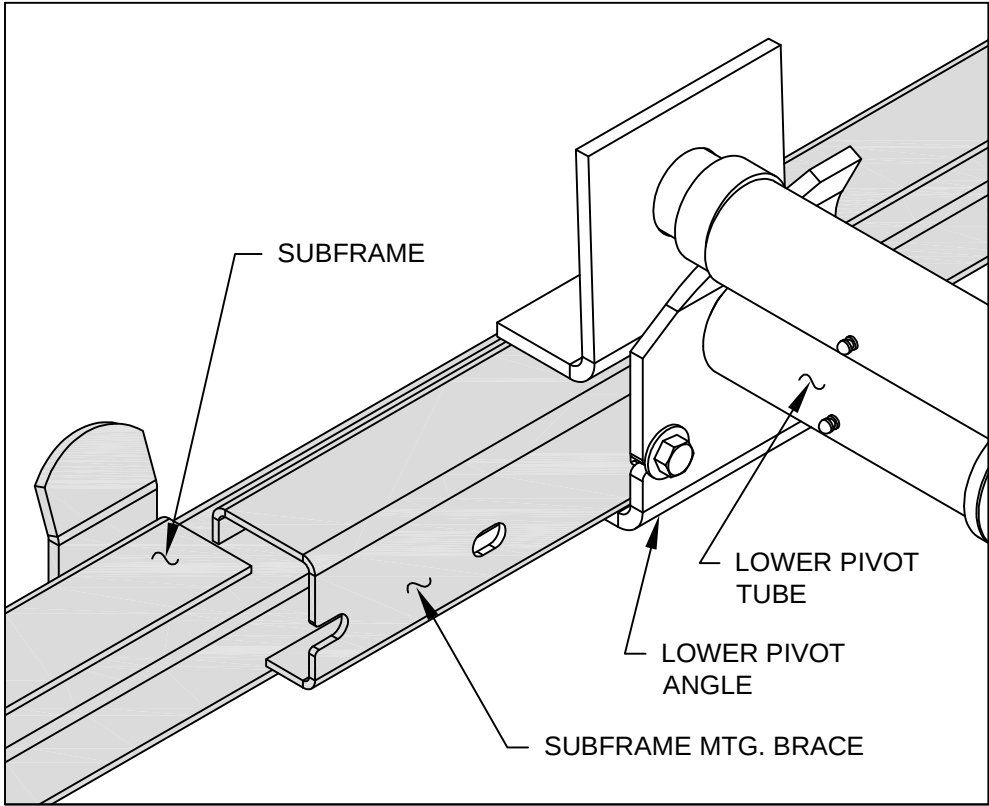


FIGURE 4a

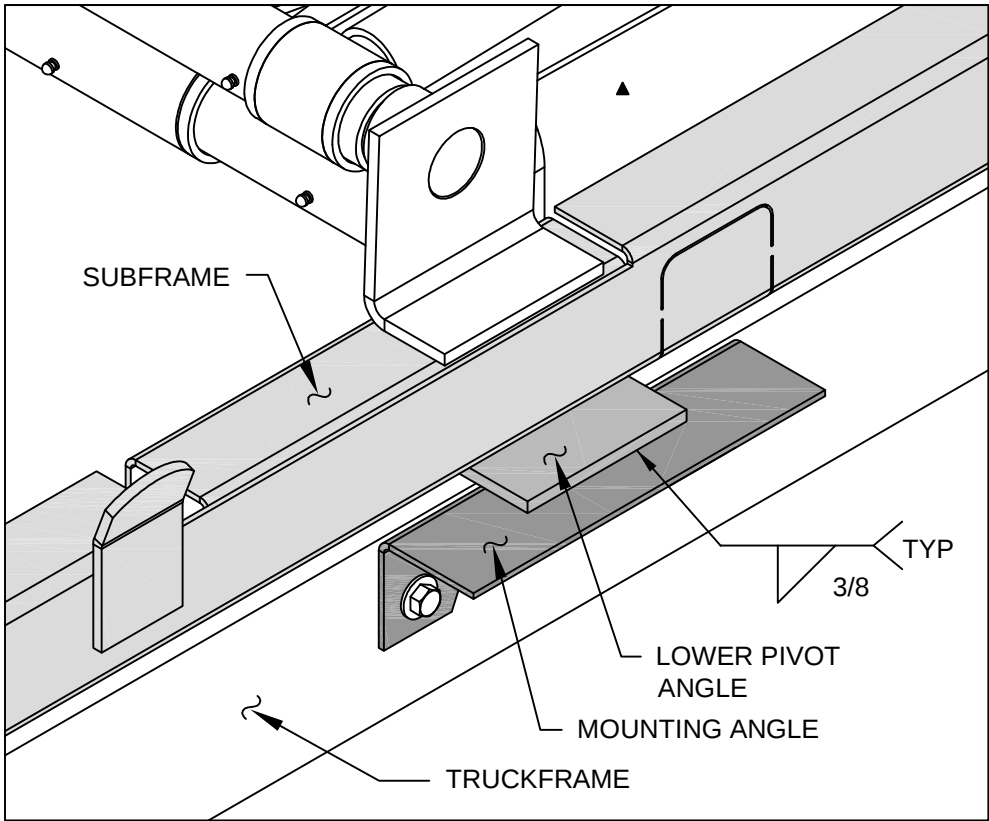


FIGURE 4b



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

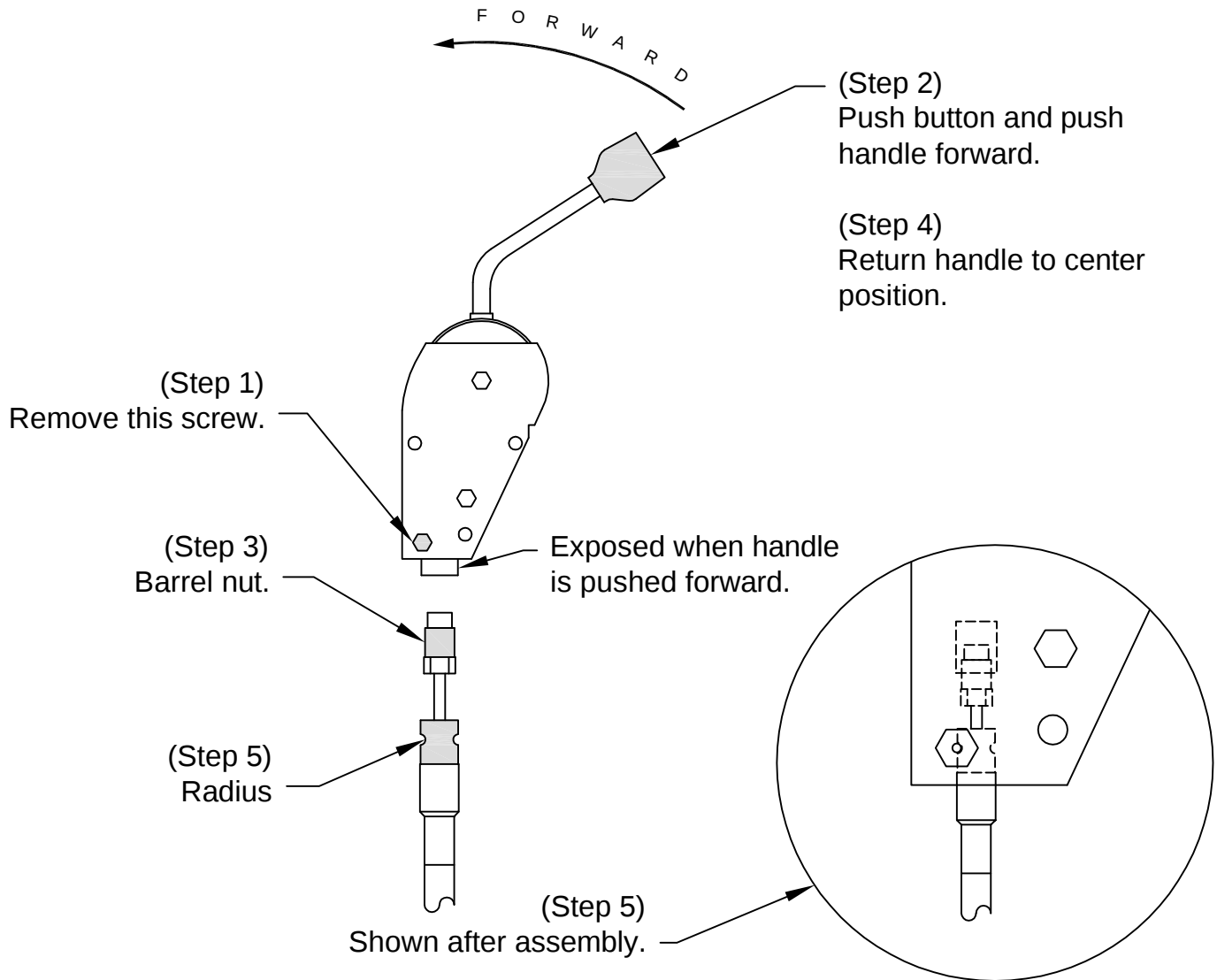
TITLE
MNTNG ILLUSTRATION
VC416-620

DATE
11-05-15D
SUPERSEDES
03-17-14C

SECTION
H200
520608

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 position.
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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
CABLE / HANDLE ASSY
PTO PUMP CABLE

DATE
11-05-15B
SUPERSEDES
03-17-14A

SECTION
-
620246

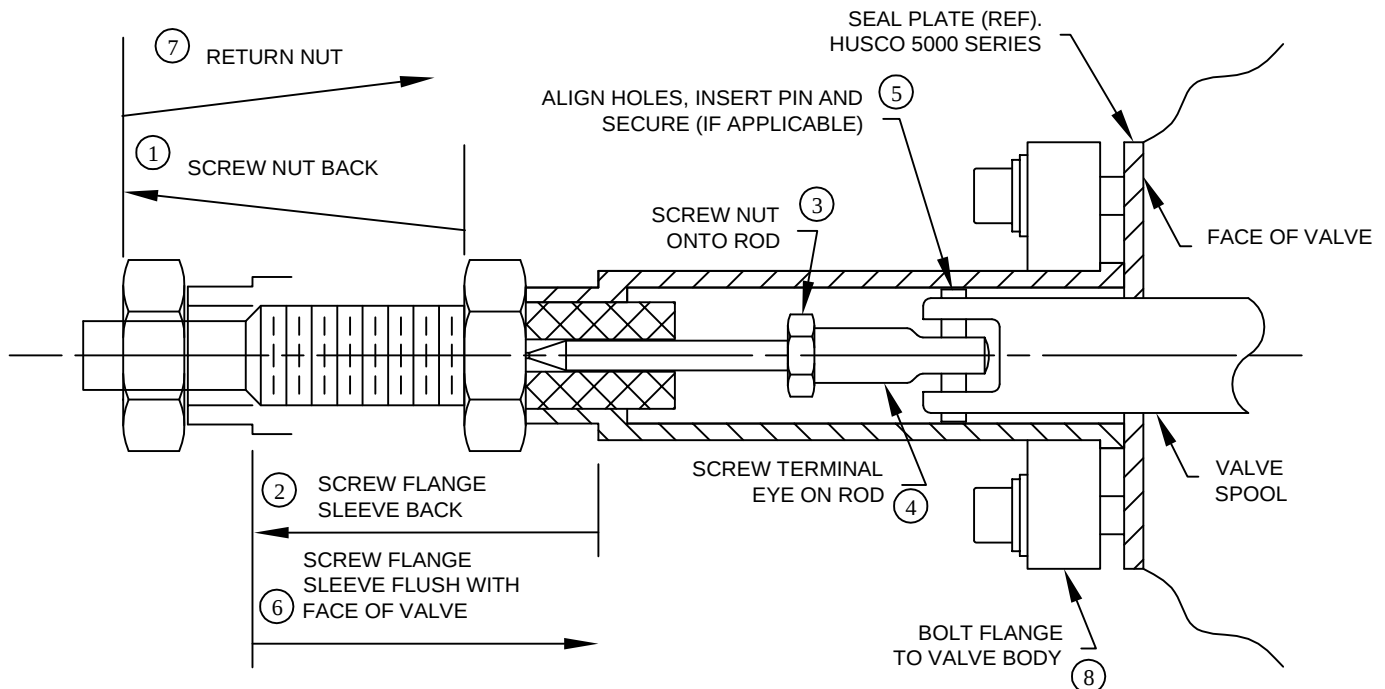
PTO PUMP CABLE INSTALLATION

1. Thread 0.750-16 UNF jam nut entire length of threaded hub and onto cable.
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.
4. 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).
6. 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 position.
7. Tighten the 0.750-16 UNF jam nut against the sleeve to lock in position.
8. 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 over-tightening will distort flange.



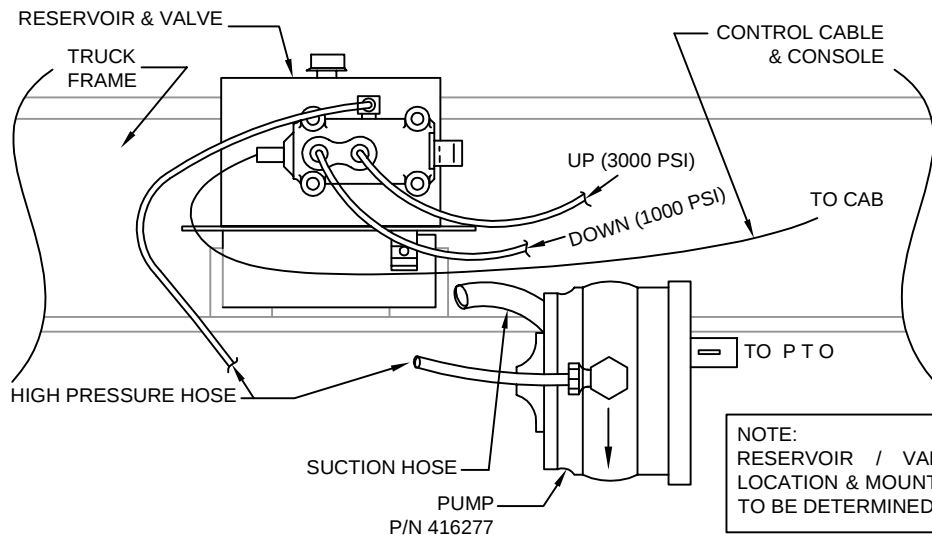
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
PTO PUMP CABLE INSTL
VC416-6628

DATE
11-05-15B
SUPERSEDES
03-17-14A

SECTION
-
416755

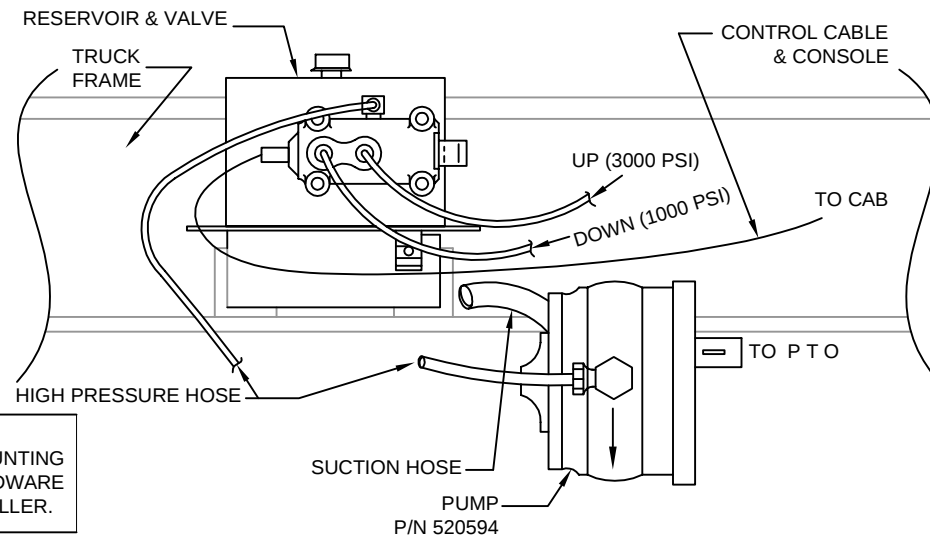
DIRECTIONAL PUMP CONFIGURATION FOR VC416-620



NOTE:
RESERVOIR / VALVE MOUNTING
LOCATION & MOUNTING HARDWARE
TO BE DETERMINED BY INSTALLER.

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

BI-DIRECTIONAL PUMP CONFIGURATION FOR VC628 & UP



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

Model	VC416	VC516	VC520	VC620	VC628	VC5520	VC6620	VC6628
Control Cable & Console	620125 - Curved 620124 - Straight							
Cylinder Up Hose	416044		520574			(2) 520574		
Cylinder Down Hose	416045				628041	(2) 416045		(2) 628041
High Pressure Hose (pump to valve)	416045 (7' LG, 3/8 HOSE)		620909 (10' LG, 3/8 HOSE) FOR VC620 NON-SF		620909 (10' LG, 3/8 HOSE)			
			416045 (7' LG, 3/8 HOSE) FOR VC620 SF					
Suction Hose (reservoir to pump)	416079 (7' LG, 1.00" I.D.)		620910 (10' LG, 1.00" I.D.) FOR VC620 NON-SF		520088F (10' LG, 1-1/4" I.D.)			
			416079 (7' LG, 1.00" I.D.) FOR VC620 SF					
Pump/Valve/Tank	620011 (9 QUART)				662077 (21 QUART)			
Pump (Only)	416277 (5gpm)				520594 (10gpm)			



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
SPLIT PUMP

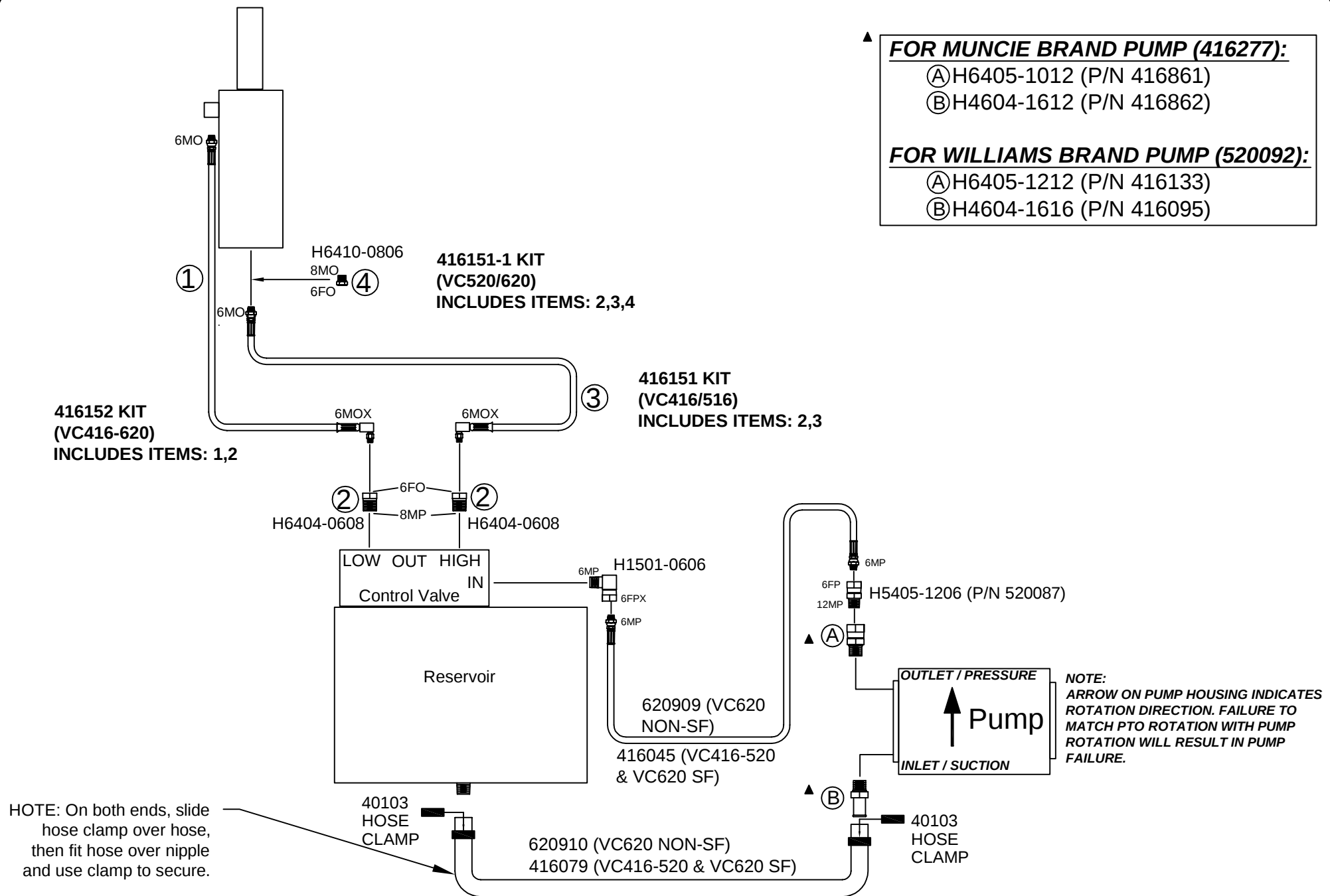
VC416-6628

DATE
03-16-22E

SUPERSEDES
08-01-17D

SECTION
H200

416763



FOR MUNCIE BRAND PUMP (416277):
 (A) H6405-1012 (P/N 416861)
 (B) H4604-1612 (P/N 416862)

FOR WILLIAMS BRAND PUMP (520092):
 (A) H6405-1212 (P/N 416133)
 (B) H4604-1616 (P/N 416095)



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
SPDG HOSE CONNECTION DIAGRAM

VC416-620

DATE
02-17-17F

SUPERSEDES
02-15-17E

SECTION
-

520621

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 rotation 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 rotation.

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

- 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 rotation (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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

WILLIAMS PTO WARNING

DATE

11-05-15D

SECTION

H200

SUPERSEDES

03-17-14C

416287

HPU GROUNDING CABLE INSTALLATION

HYDRAULIC POWER UNIT (HPU) GROUNDING CABLE INSTALLATION

STEP 1

Locate the 5/16-18 tapped hole in the aluminum pump housing and attach one end of the black #4 Gage battery cable with the 5/16" hex head cap screw and Lock Washer.



C A U T I O N

- Prior to drilling the 9/32" hole in step 2, inspect the area on both sides of the chassis rail to ensure that you will NOT drill into other components - i.e. brake lines, etc. Then, drill hole as close to the center of the chassis rail as possible.

STEP 2

Drill a 9/32" hole in the truck frame.

STEP 3

Remove any undercoating around the drilled hole for best connection to the truck frame - clean surface to bare metal.

STEP 4

Attach the other end of the black #4 Gage battery cable with the 5/16" hex washer-head self-tapping fastener to the truck frame.

NOTE: To prevent corrosion, both fasteners should be coated with dielectric grease (NOT provided in kit).

NOTE: Using the Ground Strap Kit (P/N 6474) and following the mounting instructions on page 6368 in your Hoist Owner's Manual will provide a solid ground.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

GROUND CABLE INSTLLTN

DATE

10-09-15A

SECTION

-

HOIST HYD. POWER UNITS

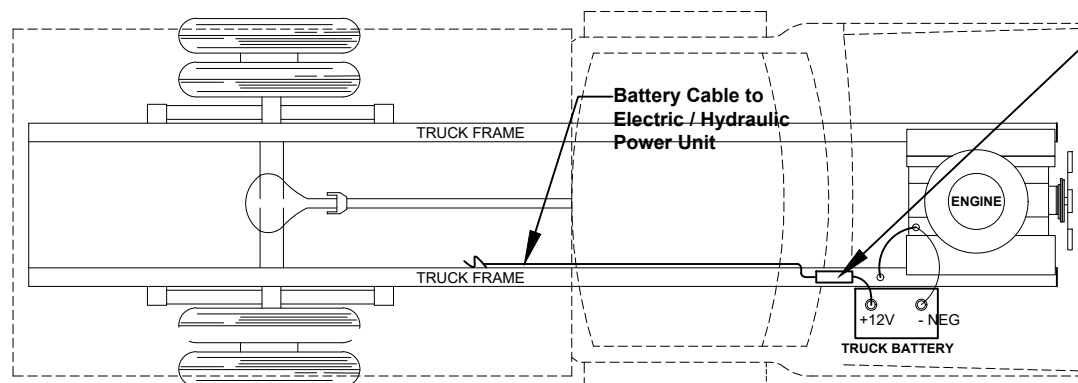
SUPERSEDES

09-25-09

416640

ELECTRICAL CONNECTIONS - HYDRAULIC POWER UNITS

+12 Volt Power Connection:



****IMPORTANT****

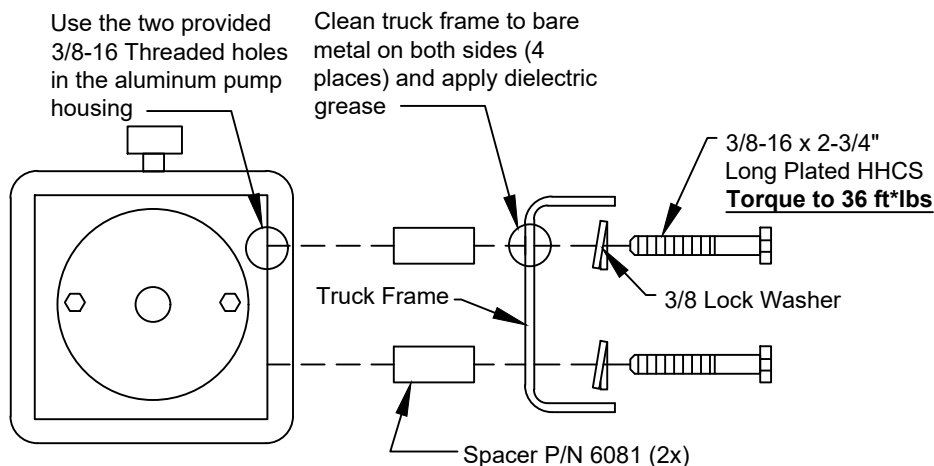
Locate the circuit breaker as close as practical to the battery for best protection of the battery cable servicing the electric / hydraulic power unit.

****NOTE****

Amp-draw of the electric / hydraulic power unit can be as high as **230amps** under normal conditions. The amp rating of the circuit breaker should be sized appropriately.

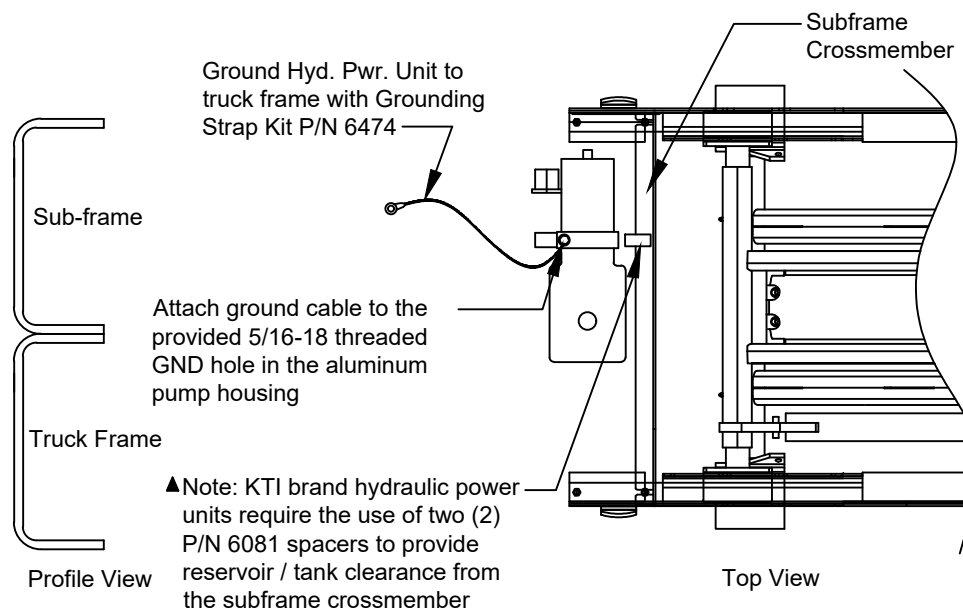
Grounding: Hydraulic power units WILL run with a poor ground connection, BUT the service life of the motor and control valve coils WILL be greatly reduced unless a proper ground connection is made - see illustrations below.

Non Sub-frame Grounding



DO NOT APPLY THREAD LOCK LIQUIDS TO BOLT THREADS, AS THEY WILL INSULATE THE BOLTS FROM THE ALUMINUM PUMP HOUSING.

Sub-frame Grounding



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

ELECTRICAL CONNECTIONS - HYD PWR UNITS

ALL ELECTRIC HOIST APPLICATIONS

DATE

01-30-24E

SUPERSEDES

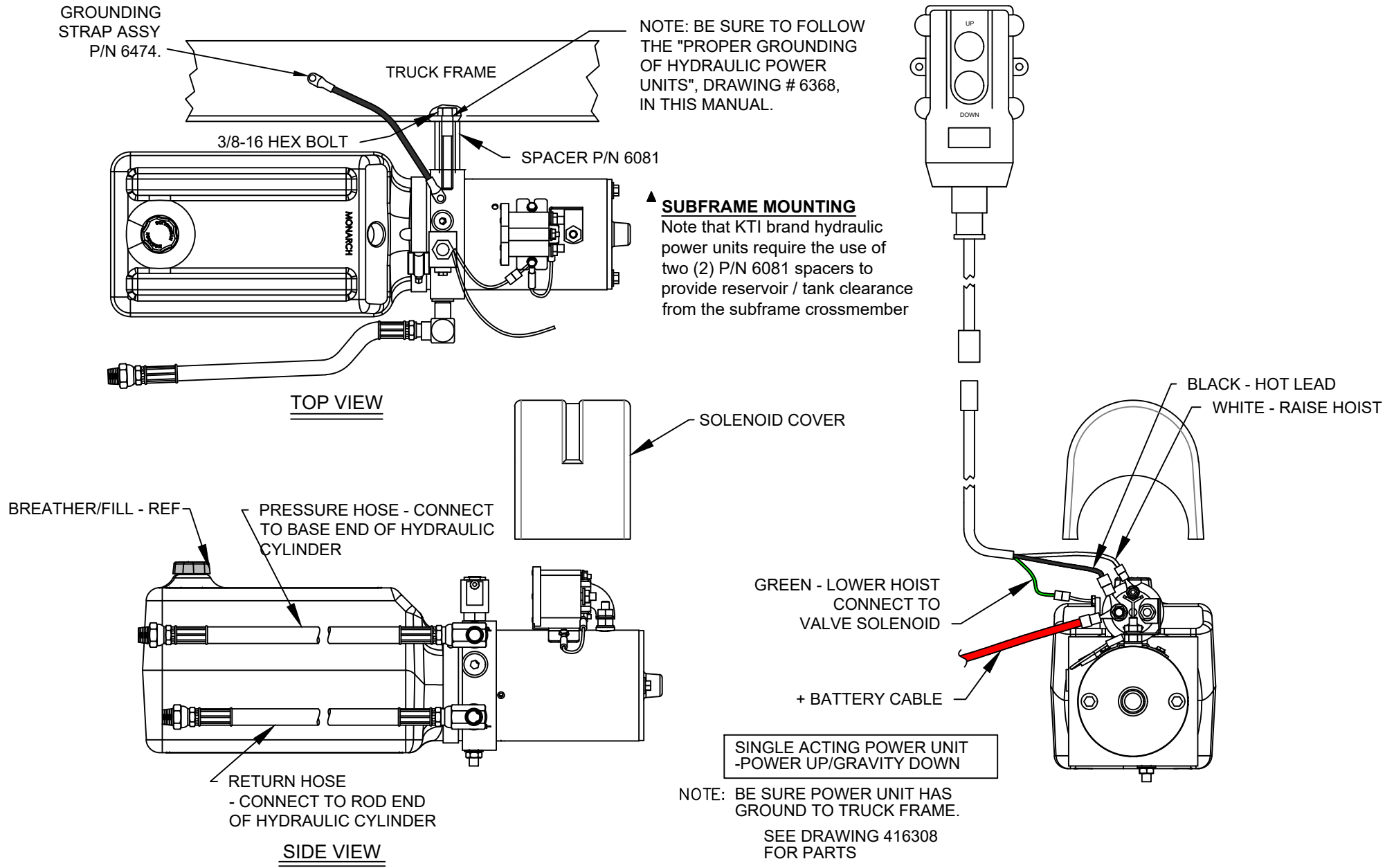
09-23-20D

SECTION

-

6368

40058M / MHD WITH MONARCH PUSH BUTTON CONTROL



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

40058M / 40058MHD POWER UNIT

VC416-628

DATE

01-30-24H

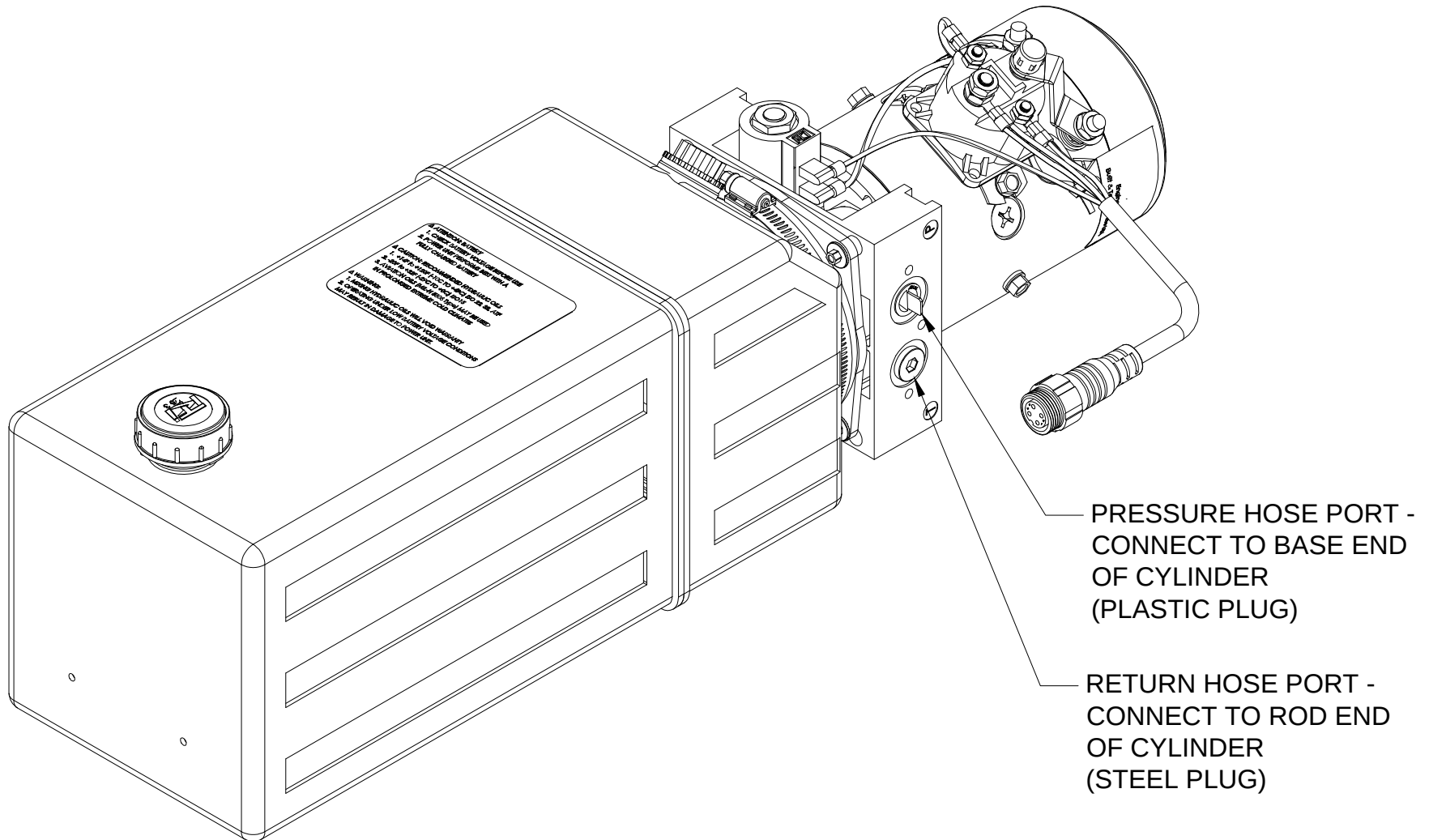
SUPERSEDES

12-09-15G

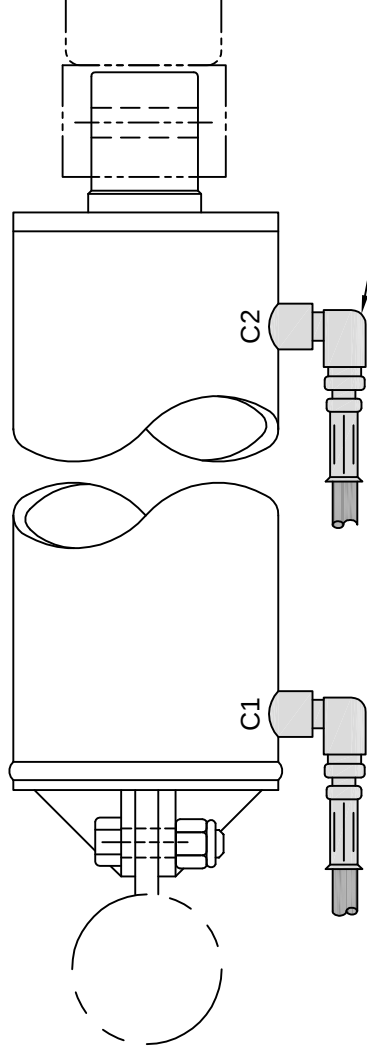
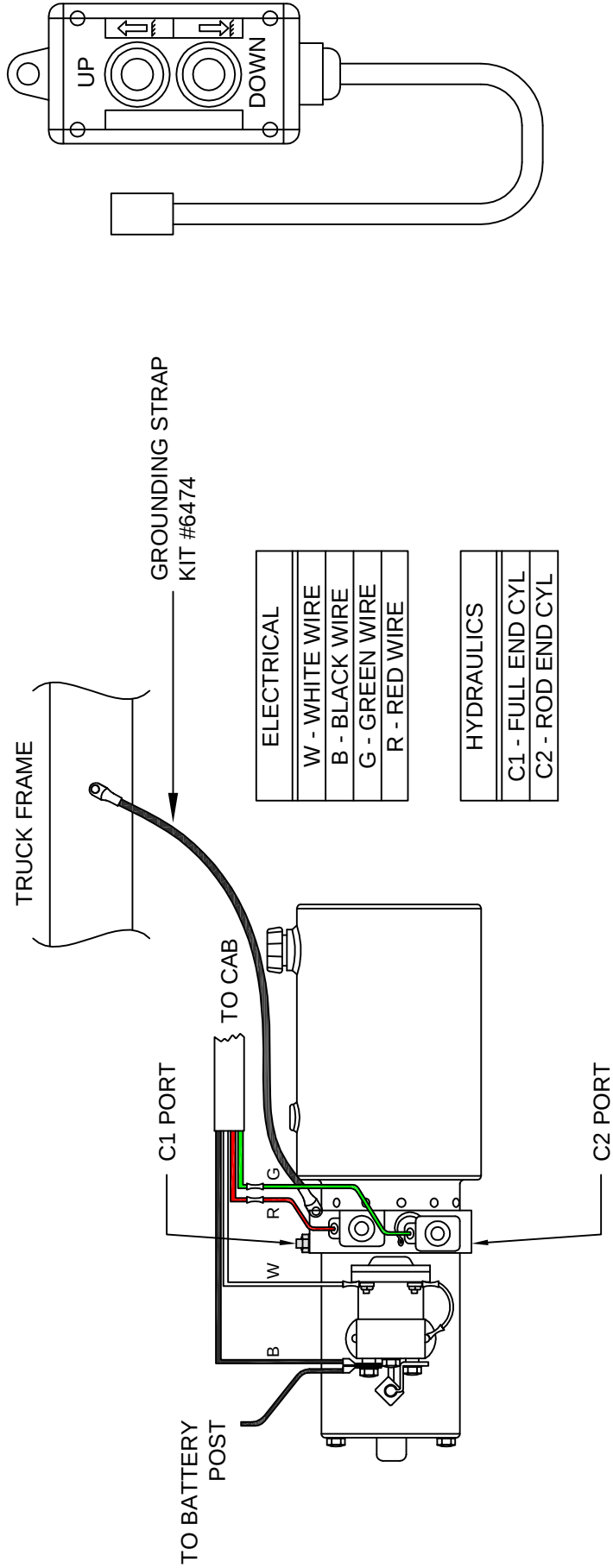
SECTION

H200

416809



416081M WITH MONARCH PUSH BUTTON CONTROL



90° ELBOWS NOT REQUIRED IF
90° PORTS ARE ON CYLINDER

NOTE: ENERGIZING 'G' COIL SENDS FLOW TO 'C1' PORT (HOIST UP)
ENERGIZING 'R' COIL SENDS FLOW TO 'C2' PORT (HOIST DOWN)



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
416081M ED POWER UNIT

VC416-628 ▲

DATE

12-08-15J

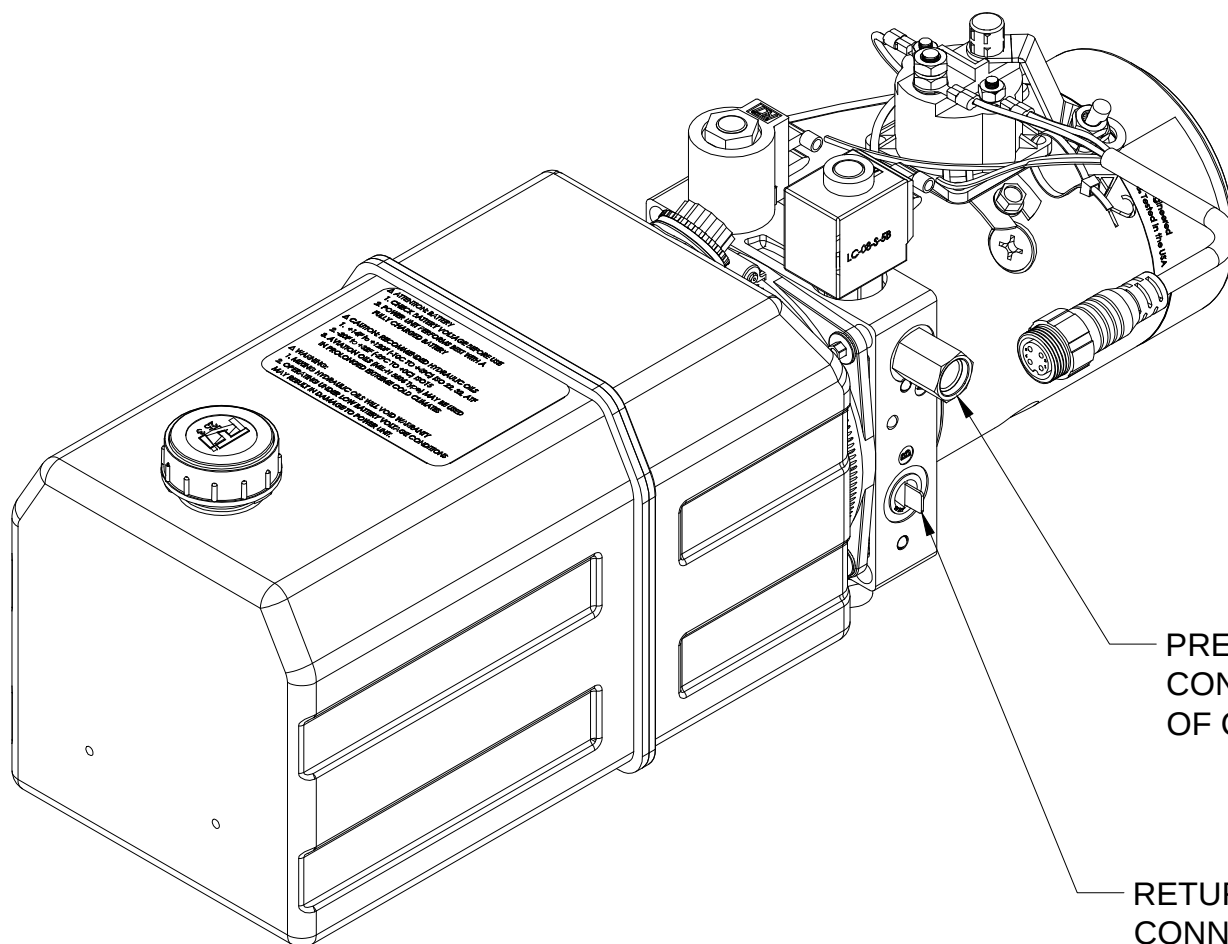
SUPERSEDES

10-09-15H

SECTION

-

416307



PRESSURE HOSE PORT (A) -
CONNECT TO BASE END
OF CYLINDER

RETURN HOSE PORT (B) -
CONNECT TO ROD END
OF CYLINDER



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
HYD PORT LOCATIONS - KTI 416081M
VC ED HOISTS

DATE
01-20-25
SUPERSEDES
-

SECTION
H200
416870

HOIST MODELS	ES/ED HYD PWR UNIT PART NUMBER RESERVOIR CAPACITY (QUARTS)	VP/VC6 6425/6426 3.4 / 3.4	TRLR313 40058M / 41608M 4.6 / 3.4	VC/TRLR 416 40058M / 41608M 4.6 / 3.4	VC/TRLR 516 40058M / 41608M 4.6 / 3.4	VC/TRLR 520 40058M / 41608M 4.6 / 3.4	VC/TRLR 620 40058MHD / 416081M 5.4 / 3.4	VC/TRLR 628 40058MHD / 416081M 5.4 / 3.4
	TOTAL HYDRAULIC FLUID REQUIRED (QUARTS)	4	4	6	8	9	12	15
STEP 1	Attach base-end hose to cylinder. Do NOT attach the Rod-end hose at this time.	YES	YES	YES	YES	YES	YES	YES
STEP 2	Fill the hydraulic reservoir as recommended below. (see fluid note below)							
2a	With the hoist in the down position, add the indicated amount (quarts) of hydraulic fluid.	2	2	3.5	3.5	3.5	3.5	3.5
2b	Raise hoist one-quarter of the way (approximately 12° dumonig angle) and add the indicated amount (quarts) of hydraulic fluid.	-	-	-	1	1.5	2	3
2c	Raise hoist one-half of the way (approximately 22-25° dumping angle) and add the indicated amount (quarts) of hydraulic fluid.	2	2	1.5	1	1.5	2	3
2d	Raise hoist three-quarters of the way (approximately 36° dumping angle) and add the indicated amount (quarts) of hydraulic fluid.	-	-		1	1.5	2	3
2e	Raise hoist completely (45-50° dumping angle) and add the indicated amount (quarts) of hydraulic fluid. DO NOT "TOP OFF", or you will likely have overflow when the hoist is lowered.	0	0	1	1.5	1	2.5	2.5
STEP 3	Attach the remaining hose to the rod-end of the cylinder (not req'd on VP/VC6 & TRLR313 hoists w/ ES hyd. Power unit).	ED ONLY	ED ONLY	YES	YES	YES	YES	YES

Hydraulic fluid:

Electric power units - ISO AW46 or Dextron III (type 3) ATF

PTO power units - ISO AW46 (cold climates), ISO AW68 (warm climates)



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
FILLING HYDRAULIC RESERVOIR

VP/VC6-628, TRLR 313-628

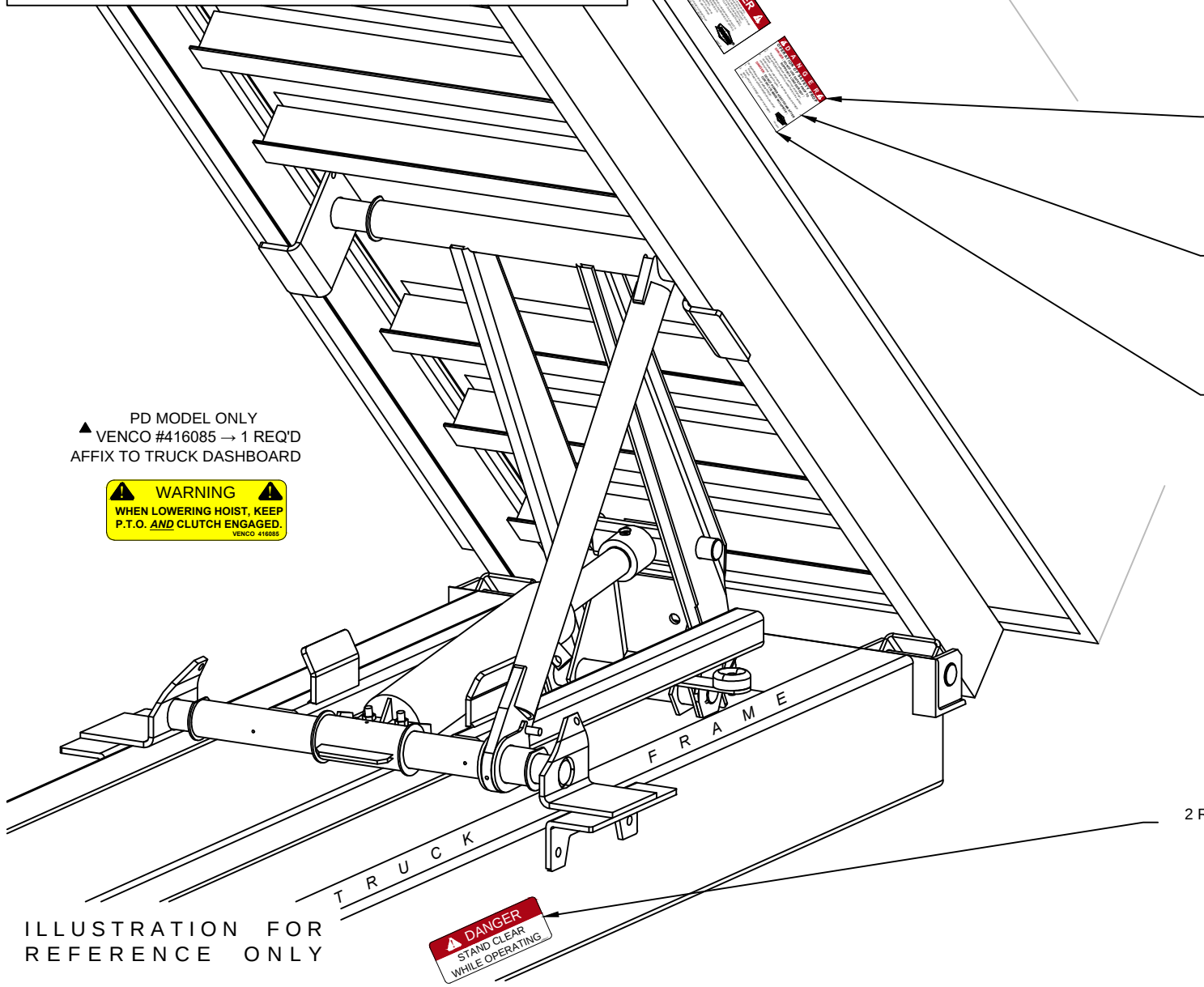
DATE
11-04-15F

SUPERSEDES
08-21-15E

SECTION
-

416140

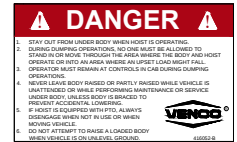
Included with your Venco hoist are various danger, warning, and caution decals. These decals must be placed in prominent locations so they are easily seen and readily identifiable. This illustration provides the recommended decal locations.



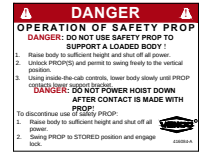
PD MODEL ONLY
▲ Venco #416085 → 1 REQ'D
AFFIX TO TRUCK DASHBOARD



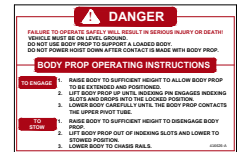
Venco #416052
2 REQ'D (1 EACH SIDE)



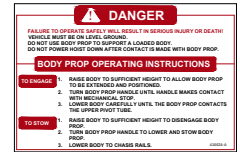
Venco #416084
1 REQ'D FOR EACH SIDE
SAFETY PROP
(SWING-DOWN)



Venco #416626
1 REQ'D FOR EACH SIDE
SAFETY PROP
(INDEXING)



Venco #416624
1 REQ'D FOR EACH SIDE
SAFETY PROP
(LINKAGE)



Venco #15254
2 REQ'D (1 EACH SIDE)



ILLUSTRATION FOR
REFERENCE ONLY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
DECAL LOCATIONS

VC416-6628, TRLR416-6628

DATE
01-29-24G

SUPERSEDES
10-27-15F

SECTION
H200

416128

SECTION 250

OPERATION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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.



C A U T I O N



- 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.



C A U T I O N



- 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 in the center 'hold' position.
6. Disengage PTO from transmission per the manufacturer's instructions.



C A U T I O N



- 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.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

MAINT. & OPER. INSTRC.

DATE

11-05-15D

SECTION

H250

VC 520-6628

SUPERSEDES

08-12-15C

520079

BODY PROP OPERATION GUIDE - GENERAL INFORMATION

D. Body prop(s): Federal Regulation 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	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	OPTIONAL	NOT AVAILABLE	SWING-DOWN=416084, LINKAGE=416624
VC628	SWING-DOWN	NOT AVAILABLE	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.



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

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



WARNING

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



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

BODY PROP OP. GUIDE

DATE

11-05-15A

SECTION

H250 ▲

VC416 - VC6628 HOISTS

SUPERSEDES

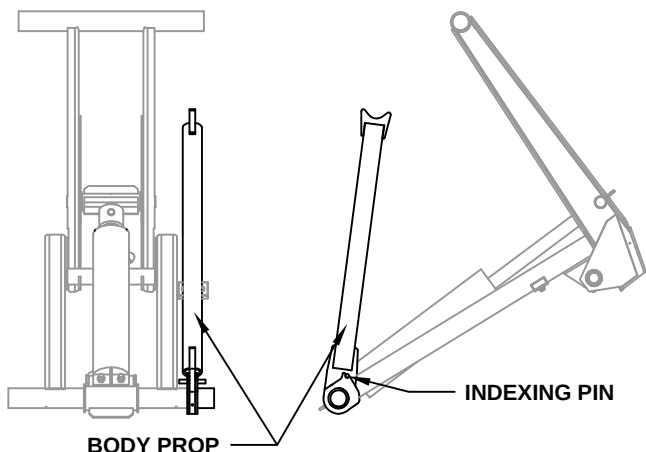
5-28-14

416644

▲

BODY PROP OPERATION GUIDE - ILLUSTRATIONS & INSTRUCTIONS

VC416 / VC516 / VC520 (STANDARD) INDEXING BODY PROP



! 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

TO ENGAGE

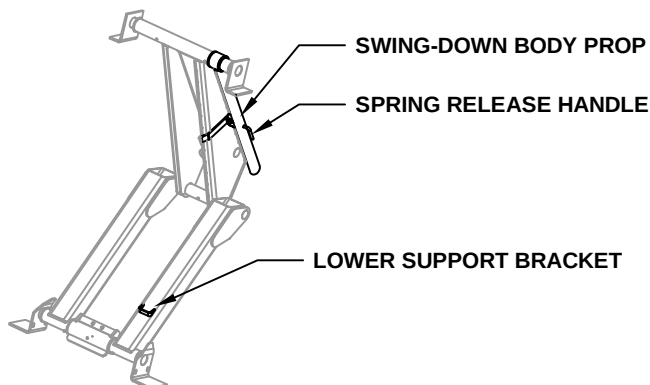
1. RAISE BODY TO SUFFICIENT HEIGHT TO ALLOW BODY PROP TO BE EXTENDED AND POSITIONED.
2. **LIFT BODY PROP UP UNTIL INDEXING PIN ENGAGES INDEXING SLOTS AND DROPS INTO THE LOCKED POSITION.**
3. LOWER BODY CAREFULLY UNTIL THE BODY PROP CONTACTS THE UPPER PIVOT TUBE.

TO STOW

1. RAISE BODY TO SUFFICIENT HEIGHT TO DISENGAGE BODY PROP.
2. LIFT BODY PROP OUT OF INDEXING SLOTS AND LOWER TO STOWED POSITION.
3. LOWER BODY TO CHASIS RAILS.

416626-A

VC620 (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!

1. Raise body to sufficient height and shut off all power.
2. Unlock PROP(S) and permit to swing freely to the vertical position.
3. 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!

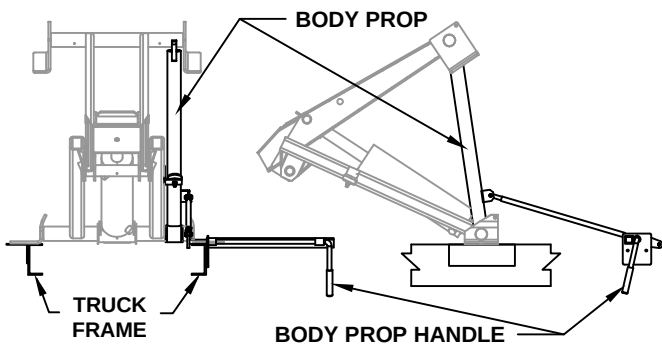
To discontinue use of safety PROP:

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



416084-A

VC516 / VC520 / VC620 (OPTIONAL) LINKAGE BODY PROP



NOTE: THE LINKAGE BODY PROP OPTION ALLOWS THE OPERATOR TO POSITION THE BODY PROP FROM OUTSIDE OF THE BODY FOR ADDED SAFETY. ASK YOUR SALES REPRESENTATIVE FOR MORE INFORMATION.

! 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

TO ENGAGE

1. RAISE BODY TO SUFFICIENT HEIGHT TO ALLOW BODY PROP TO BE EXTENDED AND POSITIONED.
2. **TURN BODY PROP HANDLE UNTIL HANDLE MAKES CONTACT WITH MECHANICAL STOP.**
3. LOWER BODY CAREFULLY UNTIL THE BODY PROP CONTACTS THE UPPER PIVOT TUBE.

TO STOW

1. RAISE BODY TO SUFFICIENT HEIGHT TO DISENGAGE BODY PROP.
2. TURN BODY PROP HANDLE TO LOWER AND STOW BODY PROP.
3. LOWER BODY TO CHASIS RAILS.

416624-A



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

BODY PROP OPERATIONS

DATE

12-18-15B

SECTION

H250

VC416 - VC620 HOISTS ▲

SUPERSEDES

11-05-15A

416645

SECTION 300

MAINTENANCE

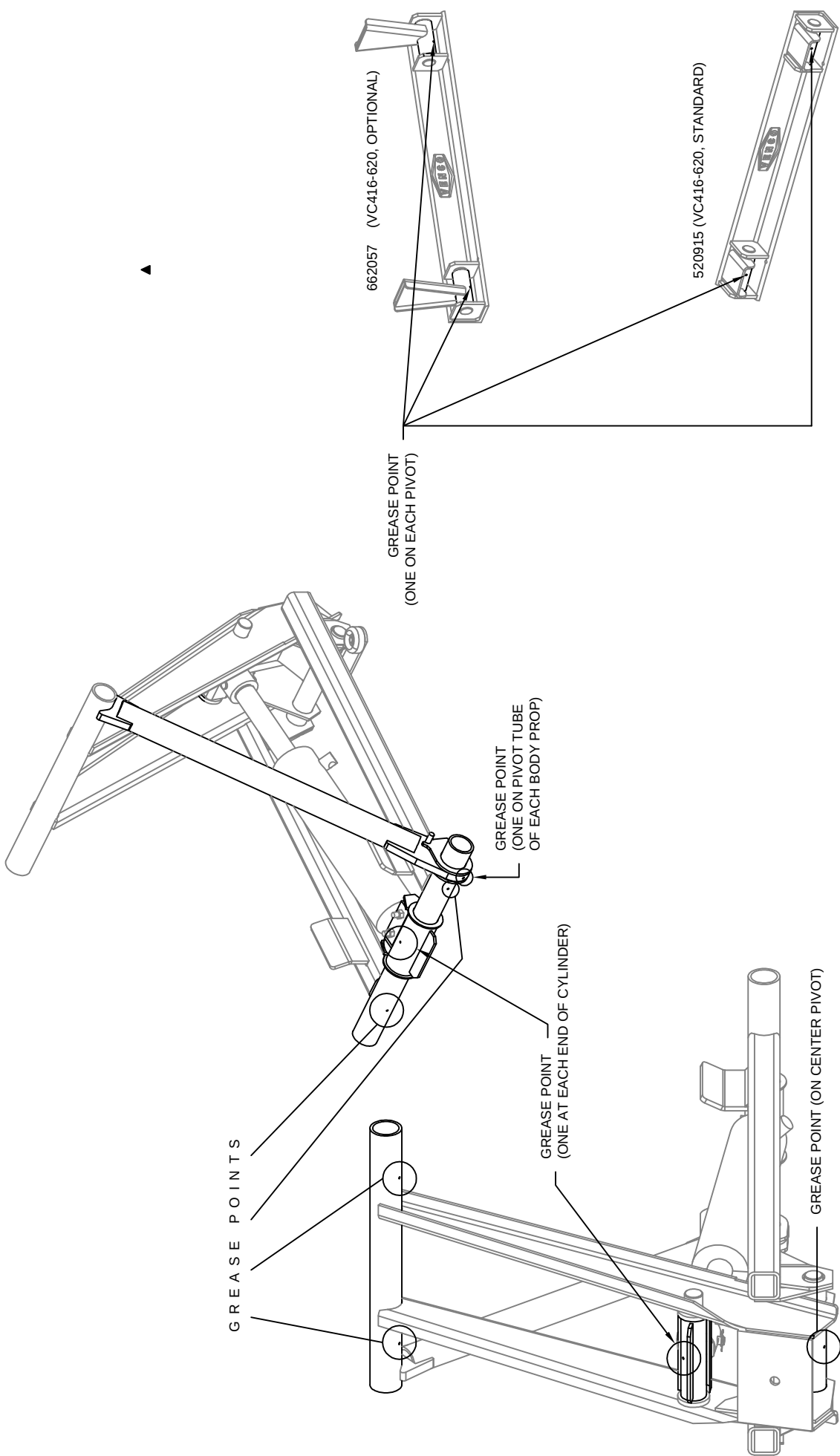
&

SERVICE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

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.

	TITLE		SECTION	
	GREASE POINTS FOR HOISTS		DATE	-
	VC416-620 ▲		12-18-15F	520054
VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		SUPERSEDES	10-27-15E	

SECTION 400

REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

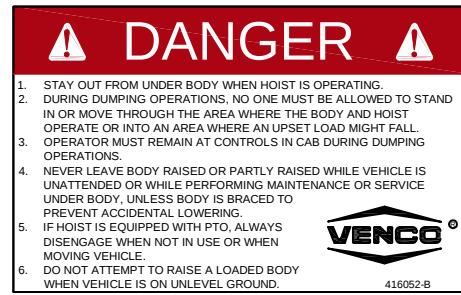
PART NO.: 416052

DECAL: DANGER STAY CLEAR

FUNCTION: To provide operator with a summary of key hoist operating procedures.

QUANTITY: 2

PLACEMENT: One on each side of body.



▲

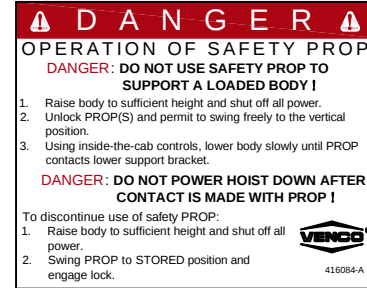
PART NO.: 416084 (VC620-VC6628 MODELS ONLY)

DECAL: SAFETY PROP OPERATION

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).



▲

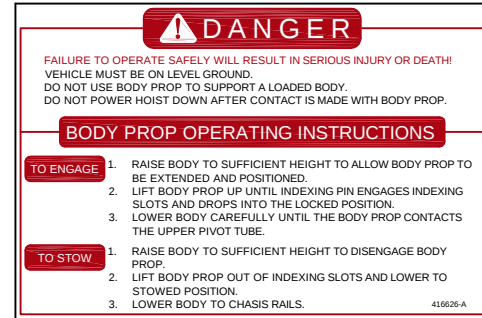
PART NO.: 416626 (VC416,516 & 520 MODELS ONLY)

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).



PART NO.: 15254

DECAL: CAUTION STAND CLEAR

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

QUANTITY: 2

PLACEMENT: One on each side of truck frame.



PART NO.: 416085

DECAL: WARNING WHEN LOWERING

FUNCTION: To inform the operator to keep P.T.O. and clutch engaged when lowering the hoist.

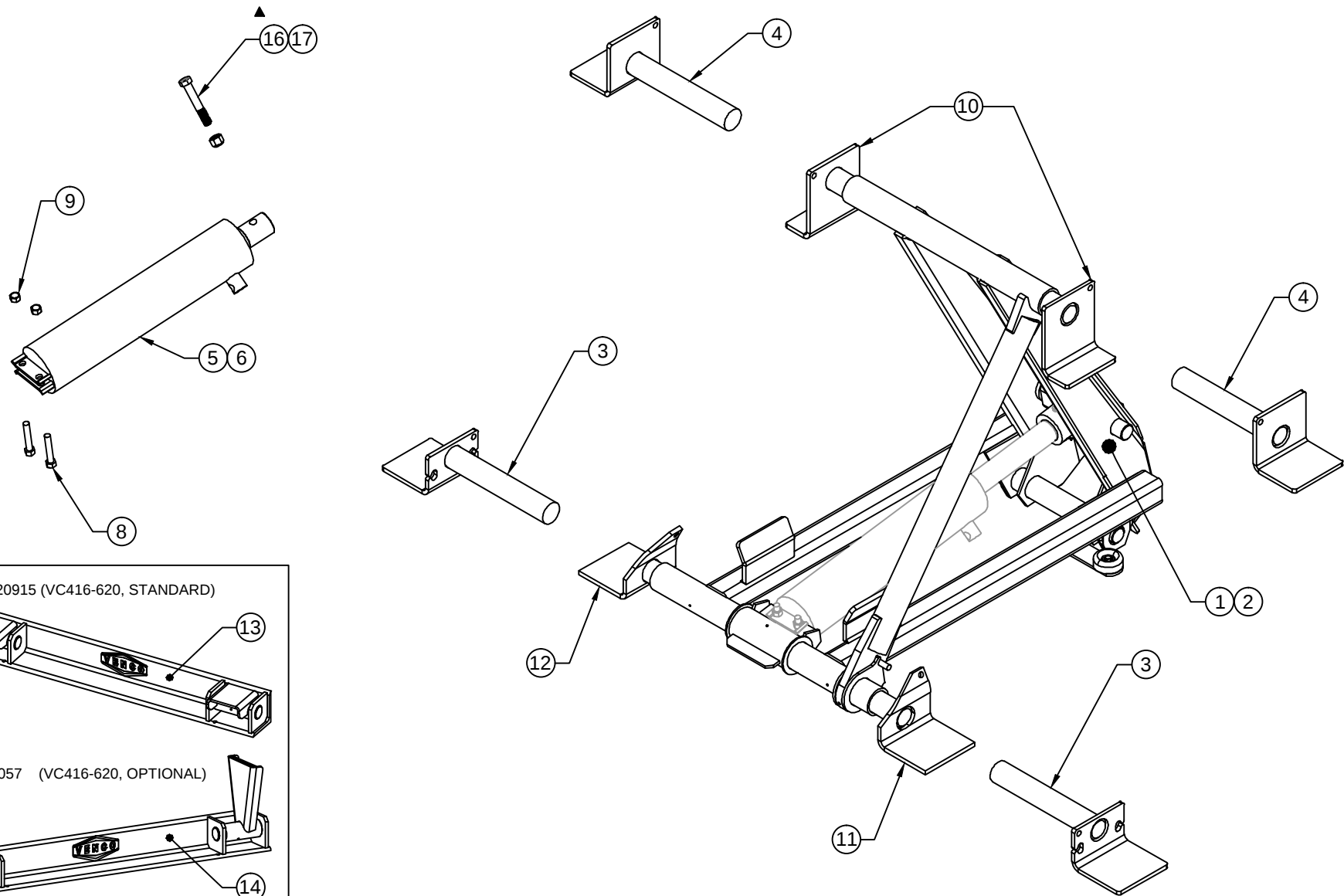
QUANTITY: 1

PLACEMENT: Affixed to truck dashboard.

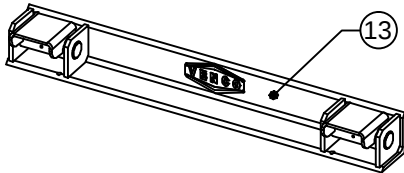


 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE	DATE	SECTION
	DECAL LIST	11-05-15E	-
	VC/TRLR 416-6628	SUPERSEDES 03-26-14D	628820

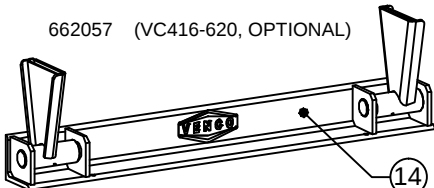
VC416/516 NON-SUBFRAME & SUBFRAME SCISSORS ASSEMBLY



520915 (VC416-620, STANDARD)



662057 (VC416-620, OPTIONAL)



REPLACEMENT PARTS LIST REFERENCE 416698



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS DRAWING
VC416/516 SCISSORS ASSEMBLY

DATE
11-15-23F
SUPERSEDES
04-27-17E

SECTION
H400
416455A

VC416/516 REPLACEMENT PARTS LIST

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	MB516402	1	VC516 SCISSORS ASSEMBLY, LESS HYDRAULIC CYLINDER
2	MB416402	1	VC416 SCISSORS ASSEMBLY, LESS HYDRAULIC CYLINDER
3	520930	2	LOWER PIVOT ASSY., LEFT & RIGHT, UNIVERSAL SUBFRAME
4	520923	2	UPPER PIVOT ASSY. , LEFT & RIGHT, UNIVERSAL SUBFRAME
5	416900	1	CYLINDER, VC416 HOIST
6	516900	1	CYLINDER, VC516 HOIST
7	-	-	-
8	!HHCS05013250-8	2	HEX HEAD CAP SCREW, 1/2-13 X 2-1/2 LG GR 8
9	!LNUT-05013	2	LOCK NUT, 1/2-13
10	520562	2	UPPER PIVOT ASSY., NON-SUBFRAME
11	520563-1	1	LOWER PIVOT ASSY., LEFT, NON-SUBFRAME
12	520563-2	1	LOWER PIVOT ASSY., RIGHT, NON-SUBFRAME
13	520915	1	WELDED ASS'Y; REAR HINGE (STANDARD EQUIPMENT)
14	662057	-	WELDED ASS'Y; REAR HINGE (OPTIONAL EQUIPMENT)
15	-	-	-
▲ 16	!HHCS06311400-8	1	HHCS; 5/8-11 X 4 GR.8
▲ 17	!LNUT-06311-8	1	LOCK NUT; 5/8-11, GR. 8, ZNC/YLW, NYL-INSERT
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-

REPLACEMENT PARTS DRAWING REFERENCE 416455A



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST

DATE

11-15-23D

SECTION

H400

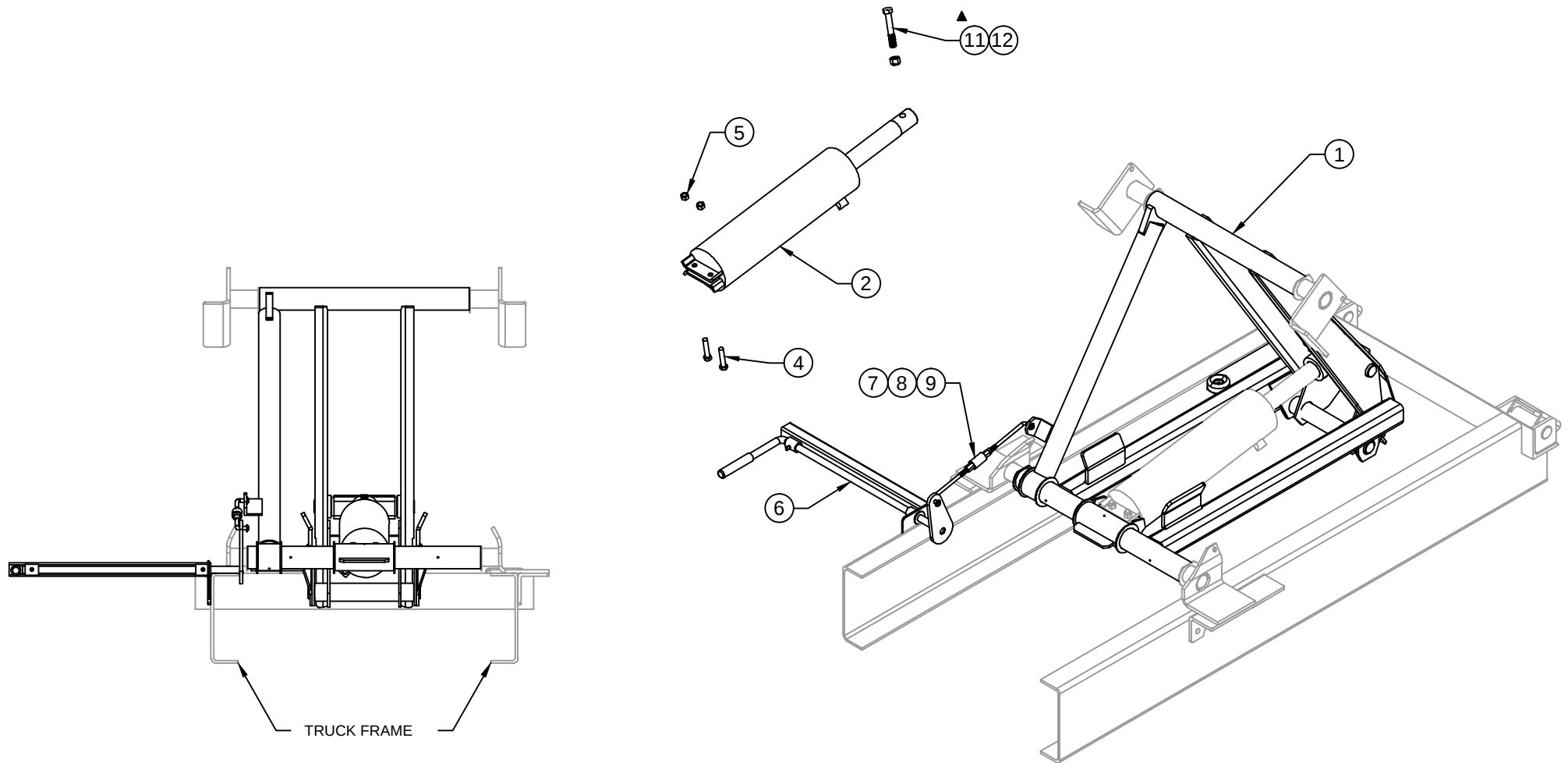
VC416/516 HOISTS

SUPERSEDES

04-27-17C

416698

VC416/516 W/ OPTIONAL LINKAGE BODY PROP



REPLACEMENT PARTS LIST REF 416699



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DRAWING

VC416/516 W/ OPT. LINKAGE BODY PROP

DATE

11-15-23E

SUPERSEDES

01-27-16D

SECTION

H400

416851

VC416/516 W/ OPTIONAL LINKAGE BODY PROP

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	MB516502	1	SCISSORS ASSEMBLY w/ LINKAGE PROP, LESS HYDRAULIC CYLINDER
2	516900	1	HYDRAULIC CYLINDER (VC516 HOIST)
3	-	-	-
4	!HHCS05013250-8	2	HEX HEAD CAP SCREW; 1/2-13 X 2 1/2" LG. GR. 8
5	!LNUT-05013	2	LOCK NUT; 1/2-13
6	520646	1	WELDED HANDLE ASSY.
7	520633-1	1	LINKAGE ROD ASSY., 31" LONG
8	520633-2	1	LINKAGE ROD ASSY., 15" LONG
9	520633-ALT03	1	LINKAGE ROD ASSY., 10" LONG
10	-	-	-
11	!HHCS06311400-8	1	HHCS; 5/8-11 X 4 GR.8
12	!LNUT-06311-8	1	LOCK NUT; 5/8-11, GR. 8, ZNC/YLW, NYL-INSERT
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-

REPLACEMENT PARTS DWG REF 416851



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RPLCMNT PARTS LIST

DATE

11-15-23D

SECTION

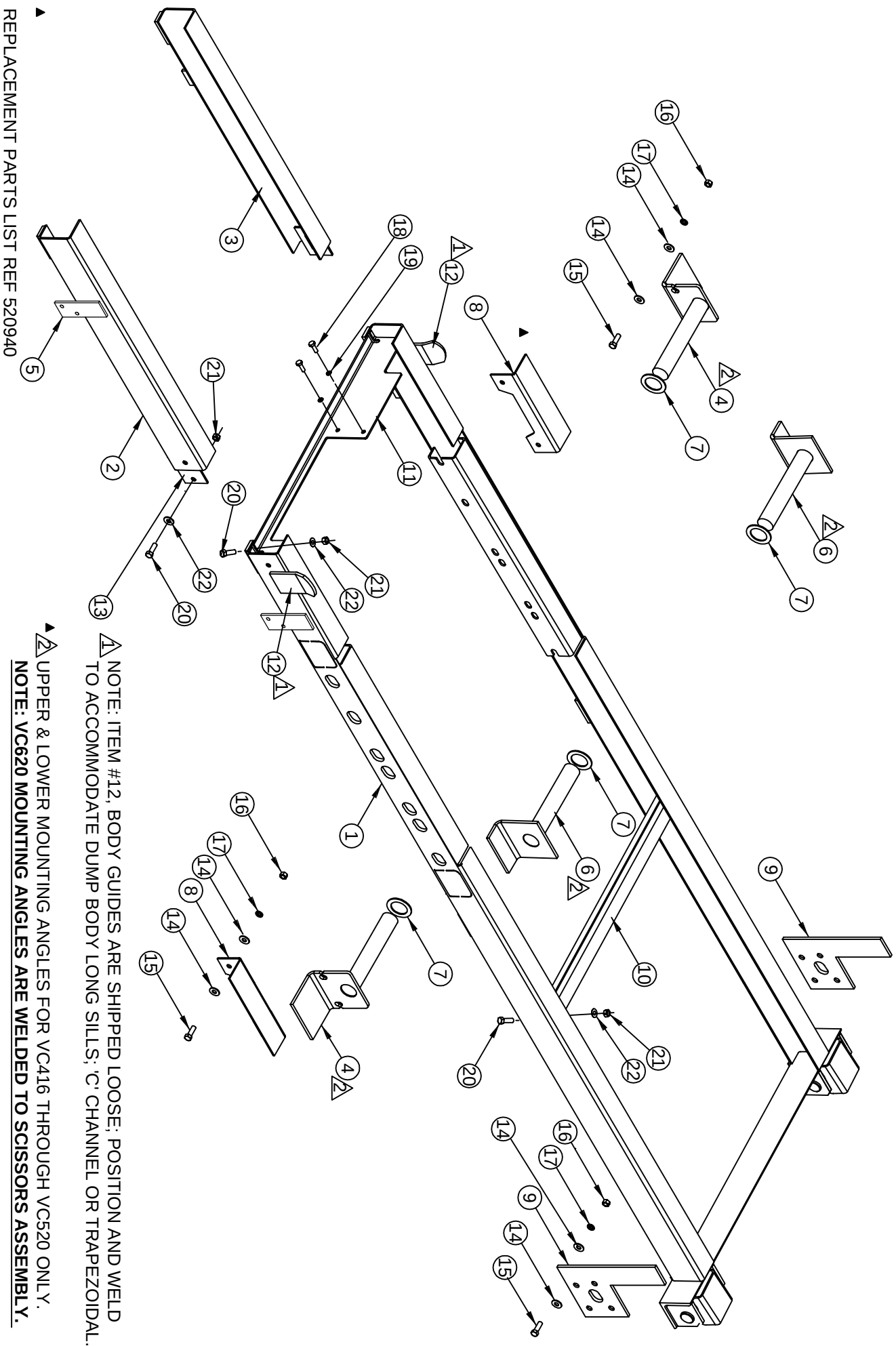
H400

VC416/516 W/ OPT. LNK PROP

SUPERSEDES

10-09-15C

416699



REPLACEMENT PARTS LIST REF 520940

▲ NOTE: ITEM #12, BODY GUIDES ARE SHIPPED LOOSE; POSITION AND WELD TO ACCOMMODATE DUMP BODY LONG SILLS; 'C' CHANNEL OR TRAPEZOIDAL.

▲ NOTE: UPPER & LOWER MOUNTING ANGLES FOR VC416 THROUGH VC520 ONLY.

NOTE: VC620 MOUNTING ANGLES ARE WELDED TO SCISSORS ASSEMBLY.

▲  VENCO® VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE		DATE	SECTION
	REPLACEMENT PARTS DRAWING		08-16-19E	H400
	VC416-620 UNIVERSAL SUB-FRAME	SUPERSEDES 11-05-15D	520939	

22	8	iFWSH-038	FLAT WASHER; 3/8"
21	8	iLNUT-03816	LOCK NUT; 3/8-16, NYLON
20	8	iHHCS03816125	HEX HEAD CAP SCREW (HHCS); 3/8-16 X 1-1/4" LG, GR. 5
19	2	iLWSH-038	LOCK WASHER; 3/8"
18	2	iHHCS03816075	HHCS; 3/8-16 X 3/4" LG, GR. 5
17	12	iLWSH-050	LOCK WASHER; 1/2"
16	12	iHNUT-05013-8	HEX NUT; 1/2-13, GR. 8
15	12	iHHCS05013150-8	HHCS; 1/2-13 X 1-1/2" LG, GR. 8
14	24	iFWSH-050	FLAT WASHER; 1/2"
13	2	520925	JOINER PLATES
12	2	520929	BODY GUIDES; C-CHANNEL & TRAPEZOIDAL
11	1	520918	CROSSMEMBER; HYD. POWER UNIT MNTNG BRACKET
10	1	520919	CROSSMEMBER; SCISSORS SUPPORT
9	2	520932	SHEAR PLATE, FORD S/D
8	2	520920	MOUNTING ANGLE; TRUCK CHASSIS
7	4	416220	COLLAR (ALL PIVOT ASSEMBLIES)
6	2	520923	UPPER PIVOT ASSEMBLY; LEFT & RIGHT (VC416 - VC520)
5	4	520532	FRAME TIE DOWN BRACKET
4	2	520930	LOWER PIVOT ASSEMBLY; LEFT & RIGHT (VC416 - VC520)
3	1	520926-2	EXTENSION; 84" SUB-FRAME, RIGHT
2	1	520926-1	EXTENSION; 84" SUB-FRAME, LEFT
1	1	520912	WELDED ASSEMBLY; UNIVERSAL SUB-FRAME
ITEM	QTY	PART NO.	DESCRIPTION

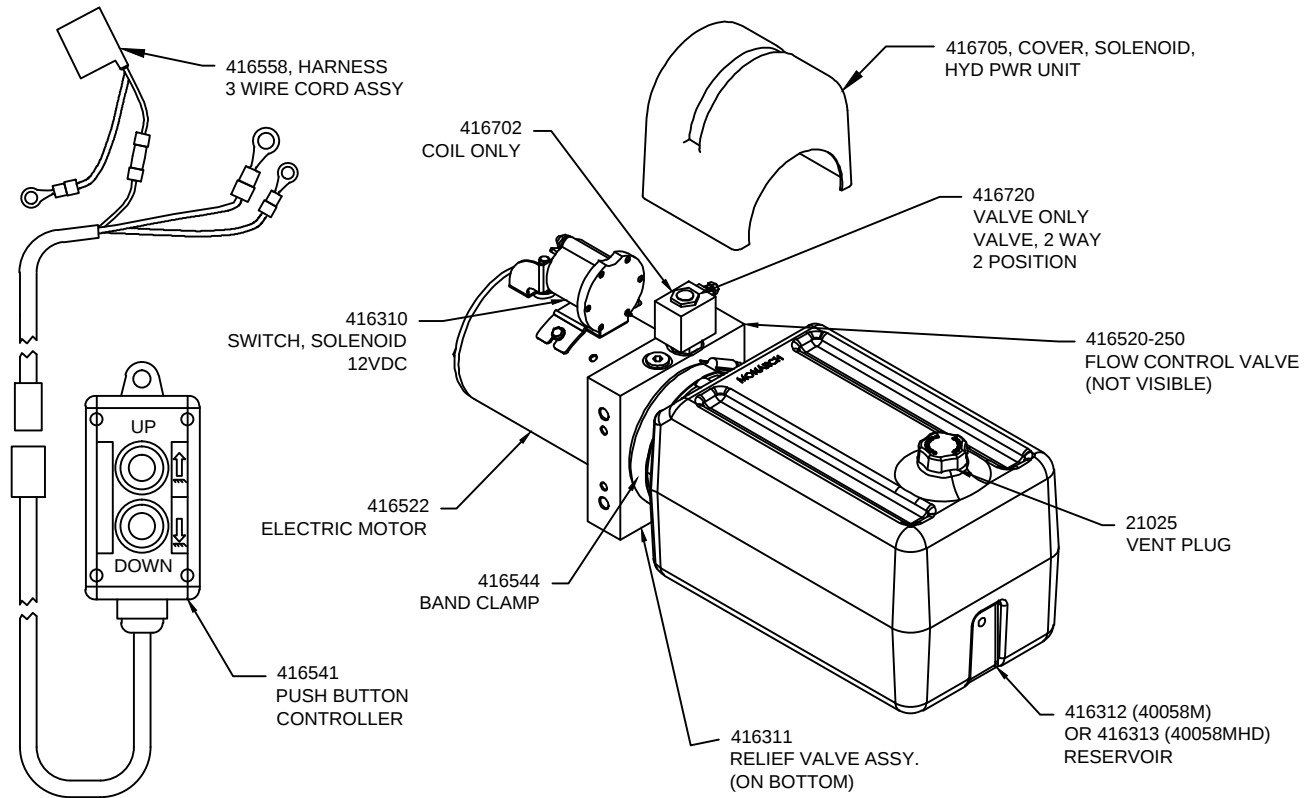
REPLACEMENT PARTS DWG REF. 520939



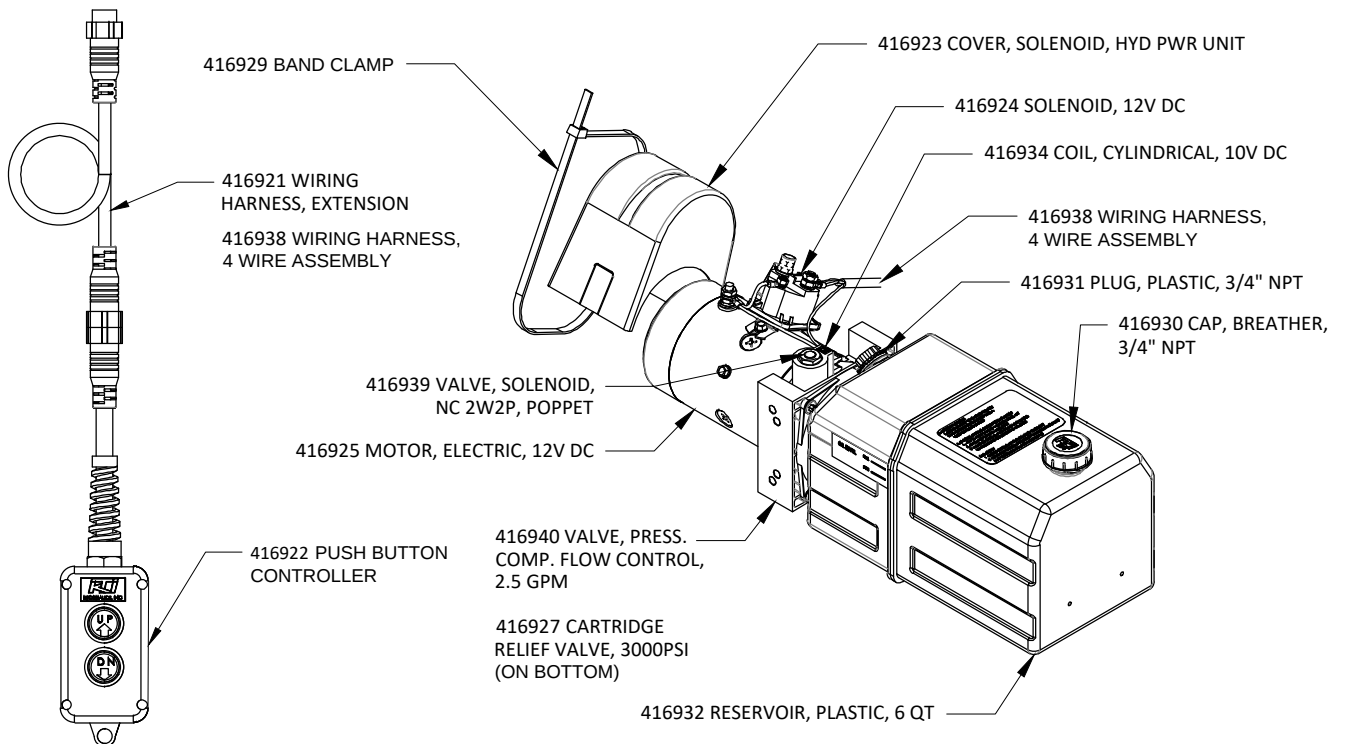
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
REPLACEMENT PARTS LIST	08-16-19E	H400
VC416-620 UNIVERSAL SUB-FRAME	SUPERSEDES 12-14-18D	520940

REPLACEMENT PARTS; 40058M (BUCHER)



REPLACEMENT PARTS; 40058M (KTI)



NOT SHOWN: 416937, O-RING, INDUSTRIAL, 113MM ID, C/S 4MM



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS

DATE

04-09-21H

SECTION

C999

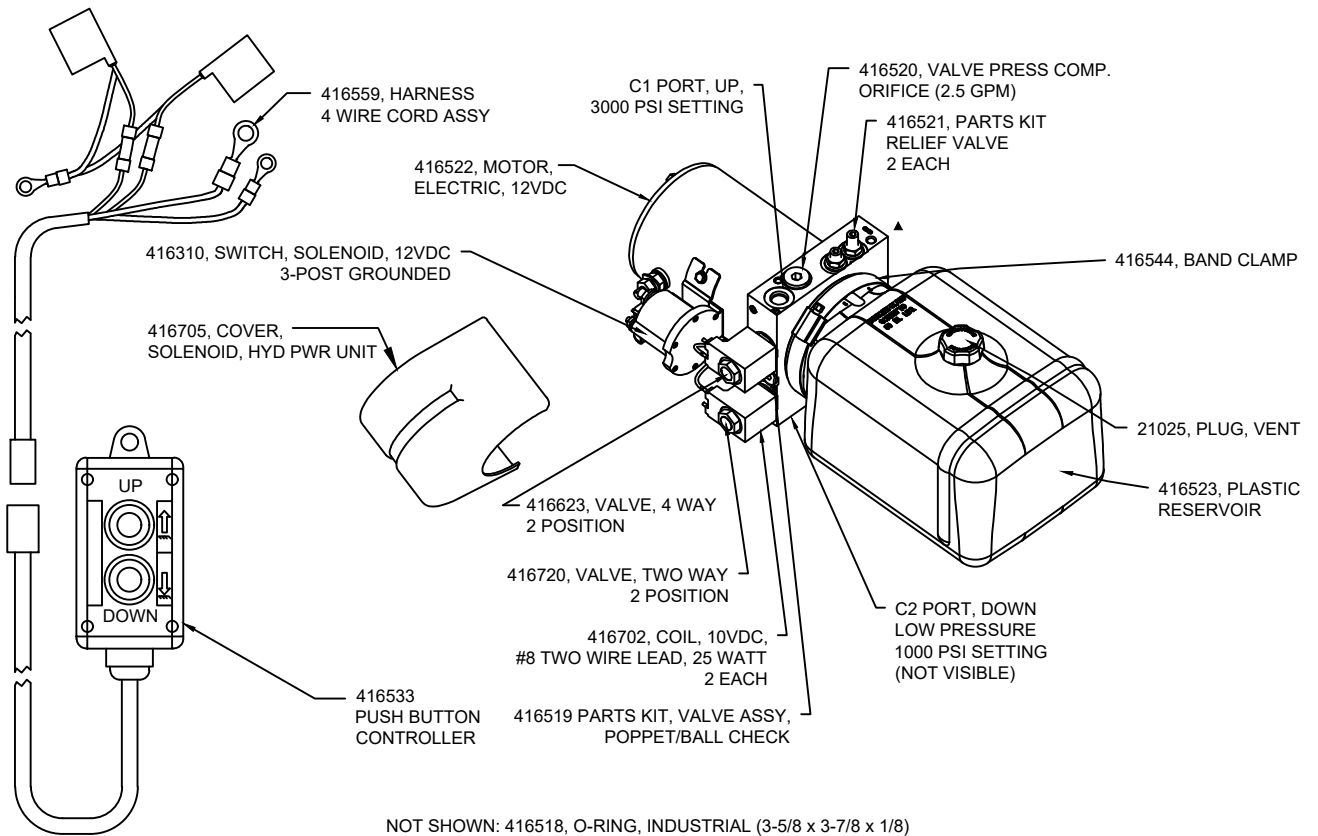
40058M HYD. POWER UNIT

SUPERSEDES

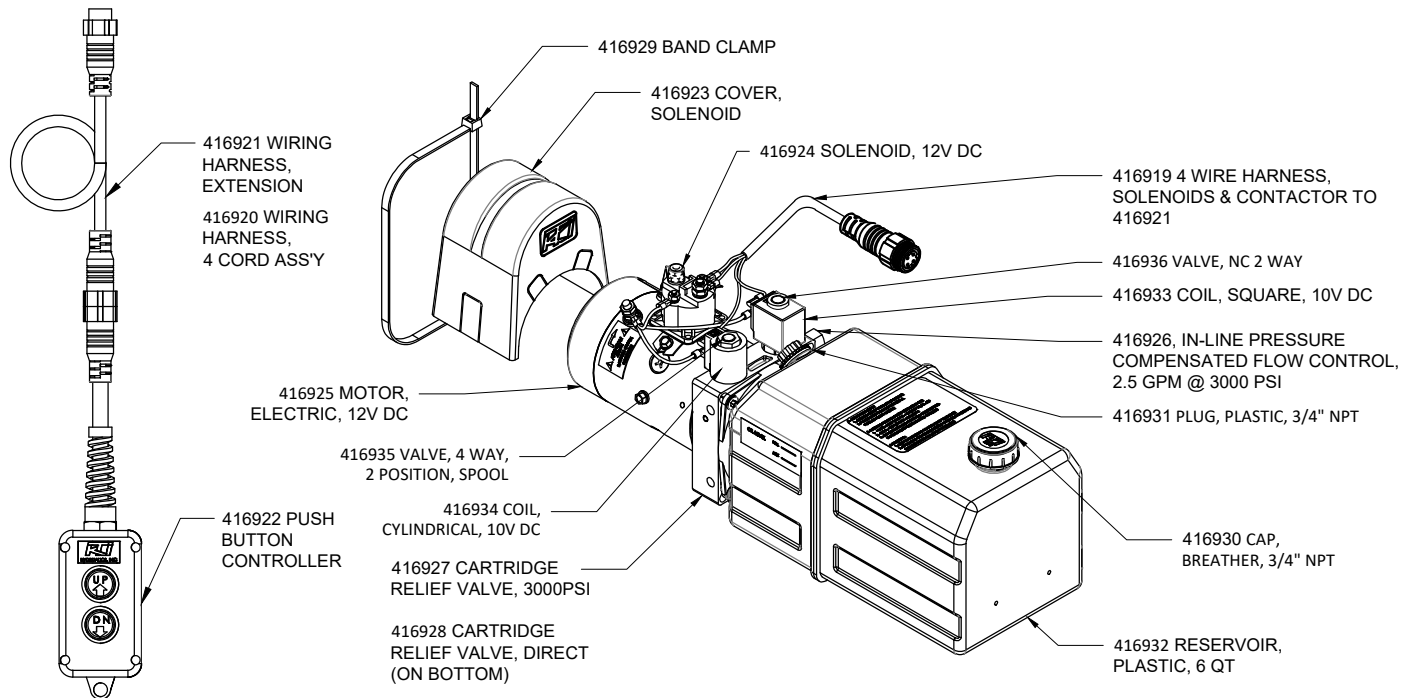
08-21-15G

416308

REPLACEMENT PARTS; 416081M (BUCHER)



REPLACEMENT PARTS; 416081M (KTI)



VENCO VENTURO LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS

416081M HYD. POWER UNIT

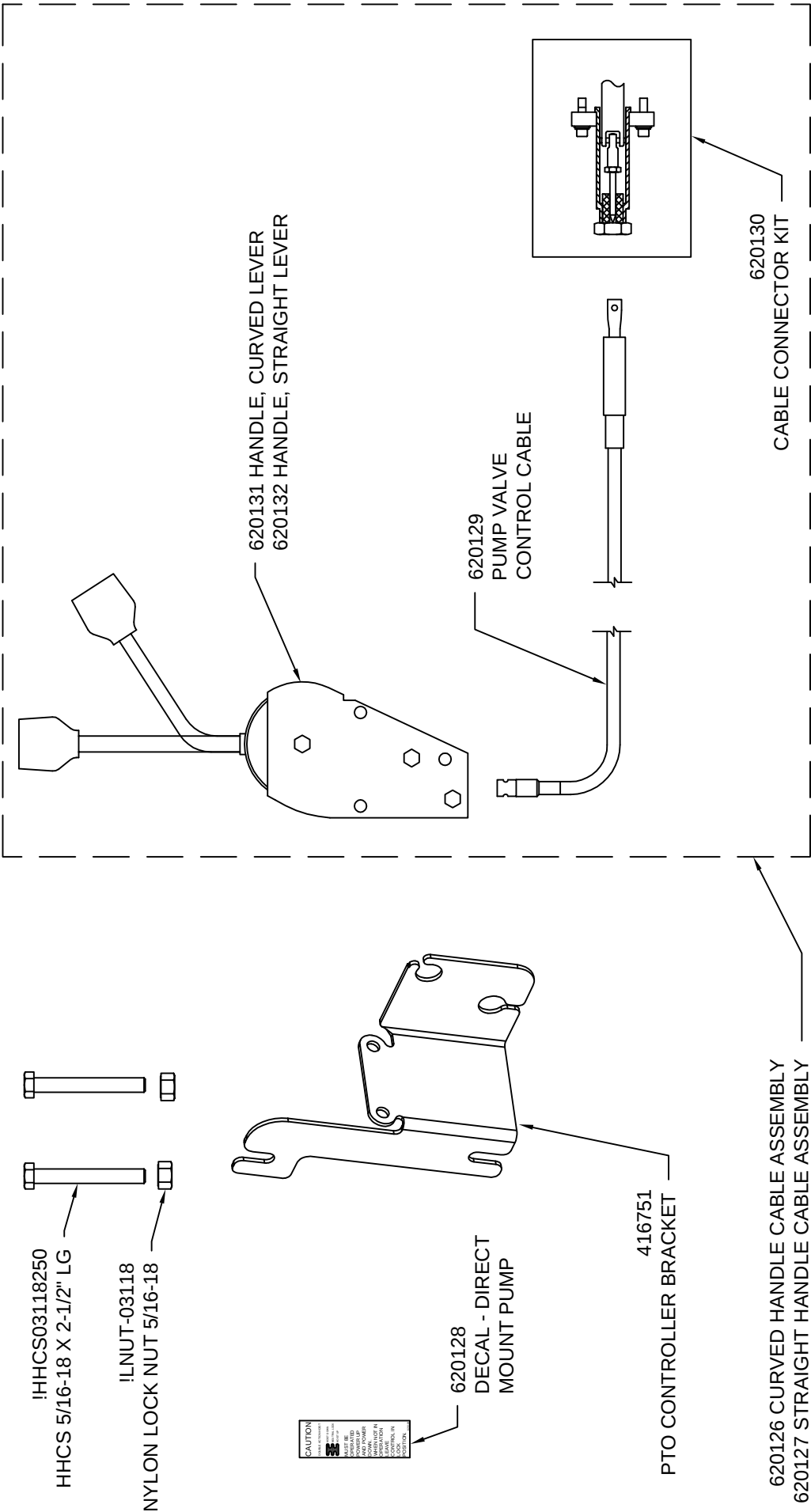
DATE
11-17-25L

SUPERSEDES
04-09-21K

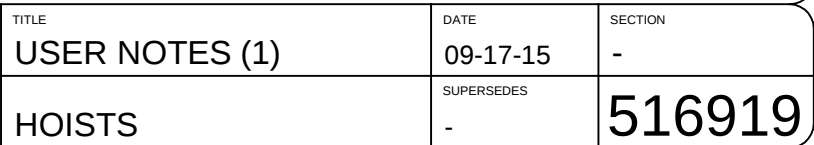
SECTION
H400

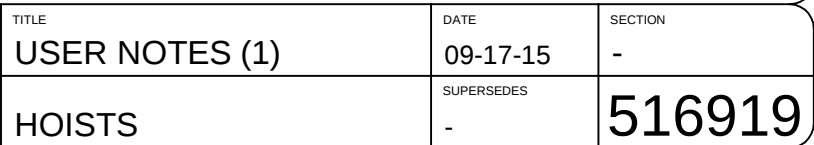
416508

CABLE & CONSOLE KITS; 620125 (CURVED) & 620124 (STRAIGHT)



	VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		TITLE	REPLACEMENT PARTS DWG & LIST	DATE	SECTION
				PTO PUMP CABLE	10-29-15B	H400
					SUPERSEDES 03-17-14A	620245

[illegible]

[illegible]



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