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## VC 628 / 5520 / 6620 MANUAL

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**-PDECALS AND PACKAGE INCLUDES:**

15254	CAUTION STAND CLEAR	2 PCS.
416052	CAUTION DECAL	2 PCS.
416084	SAFETY PROP DECAL	1 PC.
6066	PLASTIC BAG	1 PC.



MANUFACTURING, INC.

TITLE	DATE	SECTION
TABLE OF CONTENTS	9-1-05G	-
VC 628 - VC 6620	SUPERCEDES 8-12-05F	628031

# READ THIS FIRST

BE SURE TO DO THE FOLLOWING AND YOU WILL AVOID THE MOST COMMON INSTALLATION MISTAKES.

1. HOIST MUST BE LEVEL  
SEE PAGE: 416086, 416272.
2. MUST HAVE 2" SPACE  
SEE PAGE: 416086.
3. SUFFICIENT OVERHANG  
SEE PAGE: 520069, 620010, 620103, 620104, 628020, 552010, 662052 OR 662851.
4. USE PUMP WHICH MEETS VENCO SPECIFICATION  
SEE PAGE: 416811.



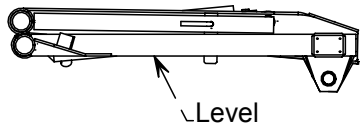
TITLE	CAUTION NOTE	DATE	12-15-04	SECTION	-
	-	SUPERCEDES	-		416756

# IMPORTANT WARNING

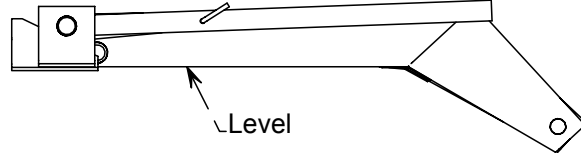
\* All VENCO Conversion Hoists - VC416 thru VC6628 \*

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

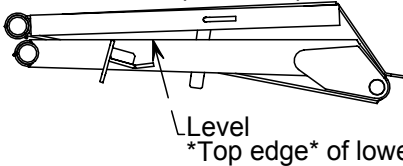
VC416 / VC516



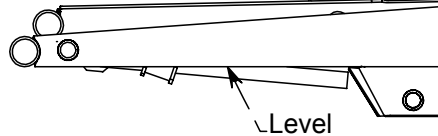
VC628



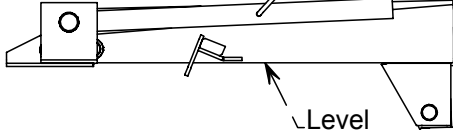
VC520 / VC620 (620200) ▲



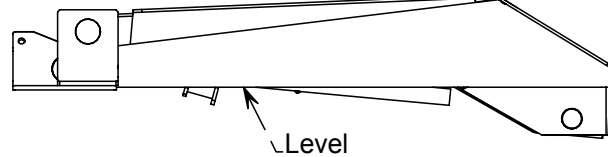
VC5520 / VC6620



VC620 (620000)▲

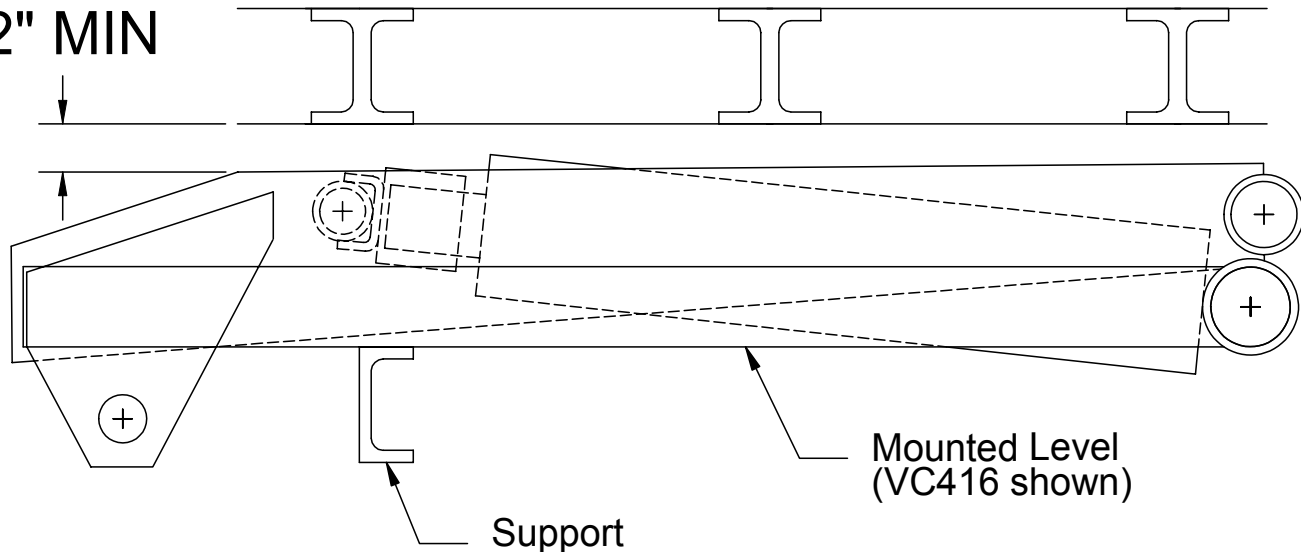


VC6628



**2** A minimum clearance of 2" is required between the hoist (upper arm) and the body cross members in order to prevent a mechanical lockout.

2" MIN



TITLE  
**IMPORTANT WARNING**

DATE  
6-12-03F

SECTION  
H150

**VENCO HOISTS**

SUPERSEDES  
11-7-02E

**416086**

Included with your Venco hoist are two (2) sets of warning and caution decals. These decals should be placed in a prominent location on each side of the truck body (roadside and curbside) so they are easily seen and readily identifiable.

PD MODEL ONLY  
Venco #416085  
1 REQ'D



AFFIX TO TRUCK  
DASHBOARD

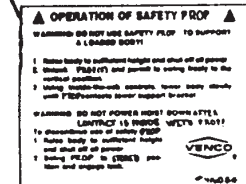
Venco #416052  
2 REQ'D (1 EACH SIDE)



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



Venco #416084  
1 REQ'D FOR  
EACH SAFETY PROP



TITLE  
DECAL LOCATION

▲ VC416-6628, TRL416-6628

DATE  
6-16-05C

SUPERCEDES  
12-27-99B

SECTION  
H100

416128

PART NO.: 416052  
 DECAL: CAUTION 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  
 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.: 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.



TITLE	DATE	SECTION
DECAL LIST	8-29-05B	-
VC416-6628, TRL416-6628	SUPERSEDES 8-15-05A	<b>628820</b>

## VENCO HOIST MODEL VC 628

CAPACITIES ARE BASED ON WATER LEVELS AND UNDIMINISHING 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 QUIDELINE ONLY.

DUMP CLASS: 50

CONVERSION CLASS: E

WEIGHT: 825 LBS.

POWER SOURCE: PD - POWER TAKE OFF DOUBLE ACTING

ADDITIONAL DATA:

SINGLE CYLINDER (6" BORE x 28" STROKE)

CA: 72"-162"

DUMP ANGLE: 40° - 50°

MOUNTING HEIGHT REQ'D: 8"



CONVERSION APPLICATIONS VC 628					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50°(TON)
12'	72"	43"	39.0	34.5	30.6
12'	84"	31"	27.6	24.4	21.7
13'	84"	43"	32.3	28.6	25.4
13'	102"	25"	21.3	18.9	16.8
13'	108"	19"	19.2	17.0	15.1
13'	114"	13"	17.4	15.4	13.7
13'	120"	7"	15.9	14.1	12.5
14'	102"	37"	24.1	21.3	19.0
14'	108"	31"	21.3	18.9	16.8
14'	114"	25"	19.2	17.0	15.1
14'	120"	19"	17.4	15.4	13.7
14'	124"	15"	16.4	14.5	12.9
14'	126"	13"	15.9	14.1	12.5
15'	108"	43"	24.1	21.3	19.0
15'	114"	37"	21.3	18.9	16.8
15'	120"	31"	19.2	17.0	15.1
15'	124"	27"	18.0	15.9	14.1
15'	126"	25"	17.4	15.4	13.7
15'	138"	13"	14.7	13.0	11.5
16'	114"	49"	24.1	21.3	18.9
16'	120"	43"	21.3	18.9	16.8
16'	124"	39"	19.8	17.6	15.6
16'	126"	37"	19.2	17.0	15.1
16'	138"	25"	15.9	14.1	12.5
16'	144"	19"	14.7	13.0	11.5
16'	150"	13"	13.7	12.1	10.7
16'	156"	7"	12.7	11.3	10.0
18'	126"	61"	24.1	21.3	19.0
18'	132"	55"	21.3	18.9	16.8
18'	138"	49"	19.2	17.0	15.1
18'	144"	43"	17.4	15.4	13.7
18'	150"	37"	15.9	14.1	12.5
18'	156"	31"	14.7	13.0	11.5
18'	162"	25"	13.6	12.1	10.7

DUMP APPLICATIONS VC 628					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50° (TON)
9'	-	12"	-	-	21.9
10'	-	12"	-	-	19.2
12'	-	12"	-	-	15.3



TITLE  
**CAPACITY CHART**

**VC 628 HOIST**

DATE  
3-10-05B

SUPERSEDES  
6-2-03A

SECTION  
H100

**628020**

## VENCO HOIST MODEL VC 5520

CAPACITIES ARE BASED ON WATER LEVELS AND UNDIMINISHING 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 QUIDELINE ONLY.

DUMP CLASS: 60

CONVERSION CLASS: F

WEIGHT: 930 LBS.

POWER SOURCE: PD - POWER TAKE OFF DOUBLE ACTING

ADDITIONAL DATA:

DUAL CYLINDERS (5" BORE x 20" STROKE)

CA: 84"-156"

DUMP ANGLE: 40° - 50°

▲ MOUNTING HEIGHT REQ'D: 8.5"

CONVERSION APPLICATIONS VC 5520					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50°(TON)
12'	84"	30"	31.1	27.6	26.2
12'	102"	12"	21.8	19.3	18.3
12'	114"	0"	18.2	16.1	15.3
13.5'	102"	30"	25.6	22.7	21.6
13.5'	114"	18"	20.7	18.4	17.4
13.5'	124"	8"	17.9	15.9	15.1
13.5'	132"	0"	16.1	14.3	13.6
14'	108"	30"	24.2	21.5	20.3
14'	114"	24"	21.8	19.3	18.3
14'	132"	6"	16.8	14.9	14.1
15'	114"	36"	24.2	21.5	20.4
15'	124"	26"	20.4	18.1	17.2
15'	132"	18"	18.2	16.1	15.3
15'	150"	0"	14.5	12.9	12.2
16'	108"	54"	31.1	27.6	26.2
16'	114"	48"	27.2	24.2	22.9
16'	120"	42"	24.2	21.5	20.3
16'	124"	38"	22.5	20.0	19.0
16'	132"	30"	19.8	17.6	16.7
16'	138"	24"	18.2	16.1	15.3
18'	138"	48"	21.8	19.3	18.3
18'	144"	42"	19.8	17.6	16.7
18'	150"	36"	18.2	16.1	15.3

DUMP APPLICATIONS VC 5520					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50° (TON)
11'	-	12"	-	-	20.4
12'	-	12"	-	-	18.3
13'	-	12"	-	-	16.7
14'	-	12"	-	-	15.3



TITLE  
**CAPACITY CHART**

DATE  
**3-10-05C**

SECTION  
**H100**

**VC 5520 HOIST**

SUPERSEDES  
**6-2-03B**

**552010**

## VENCO HOIST MODEL VC 6620

CAPACITIES ARE BASED ON WATER LEVELS AND UNDIMINISHING 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 QUIDELINE ONLY.

DUMP CLASS: 50

CONVERSION CLASS: G

WEIGHT: 965 LBS.

POWER SOURCE: PD - POWER TAKE OFF DOUBLE ACTING

ADDITIONAL DATA:

DUAL CYLINDERS (6" BORE x 20" STROKE)

CA: 84"-156"

DUMP ANGLE: 40° - 50°

MOUNTING HEIGHT REQ'D: 8.5"



CONVERSION APPLICATIONS VC 6620					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50°(TON)
12'	84"	30"	44.8	39.7	37.7
12'	102"	12"	31.3	27.8	26.4
12'	114"	0"	26.13	23.2	22.0
13.5'	102"	30"	36.9	32.7	31.0
13.5'	114"	18"	29.8	26.5	25.1
13.5'	124"	8"	25.7	22.9	21.7
13.5'	132"	0"	23.2	20.6	19.5
14'	108"	30"	34.8	30.9	29.3
14'	114"	24"	31.3	27.8	26.4
14'	132"	6"	24.1	21.4	20.3
15'	114"	36"	34.8	30.9	29.3
15'	124"	26"	29.4	26.1	24.7
15'	132"	18"	26.1	23.2	22.0
15'	150"	0"	20.9	18.5	17.6
16'	108"	54"	44.8	39.7	37.7
16'	114"	48"	39.2	34.8	33.0
16'	120"	42"	34.8	30.9	29.3
16'	124"	38"	32.4	28.8	27.3
16'	132"	30"	28.5	25.3	24.0
16'	138"	24"	26.1	23.2	22.0
18'	138"	48"	31.3	27.8	26.4
18'	144"	42"	28.5	25.3	24.0
18'	150"	36"	26.1	23.2	22.0
20'	150"	60"	31.3	27.8	26.4
20'	156"	54"	28.5	25.3	24.0

DUMP APPLICATIONS VC 6620					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50° (TON)
11'	-	12"	-	-	29.3
12'	-	12"	-	-	26.4
13'	-	12"	-	-	24.4
14'	-	12"	-	-	22.0



TITLE  
**CAPACITY CHART**

DATE  
3-10-05C

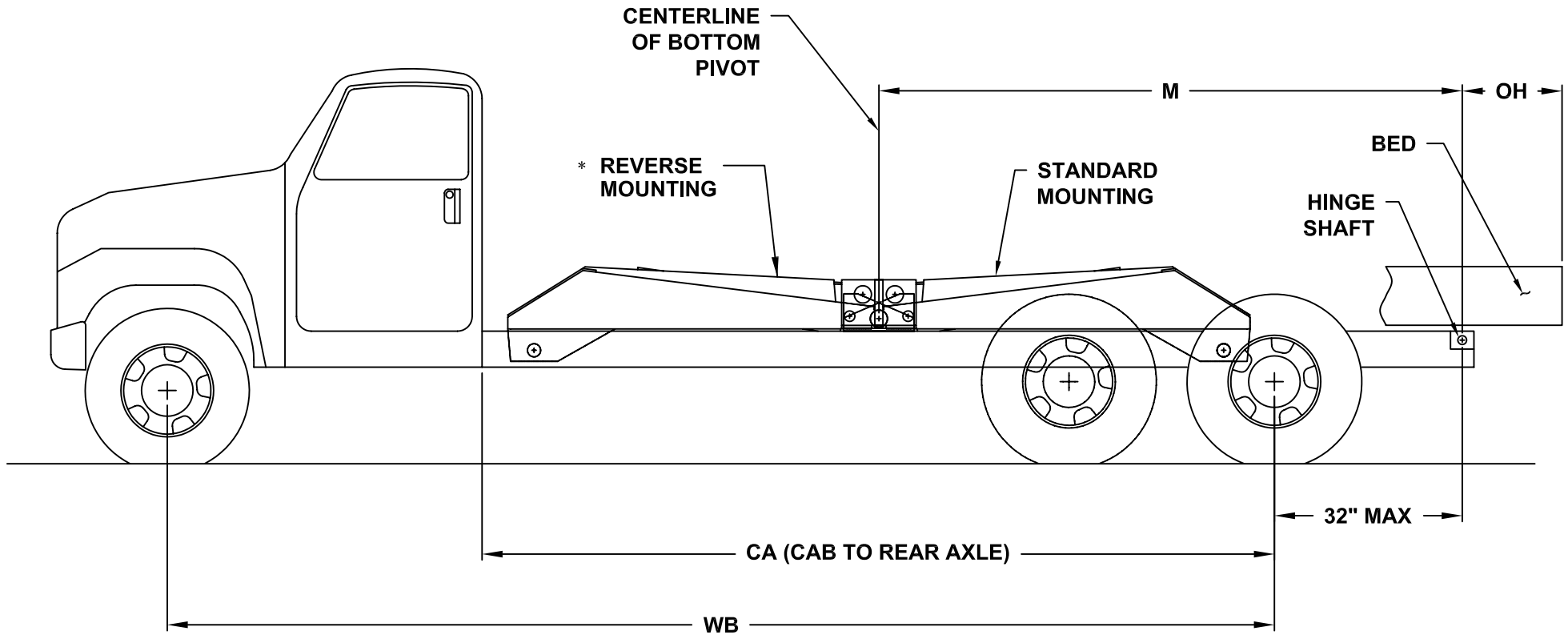
SECTION  
H100

**VC 6620 HOIST**

SUPERSEDES  
6-2-03B

**662052**





## VC 5520 AND VC 6620 HOISTS

### STANDARD MOUNTING

DUMP ANGLE	M
40°	106.5"
45°	94"
50°	84"

FIGURE 1.C

### \*REVERSE MOUNTING

DUMP ANGLE	M
40°	98.5"
45°	93"
50°	81"

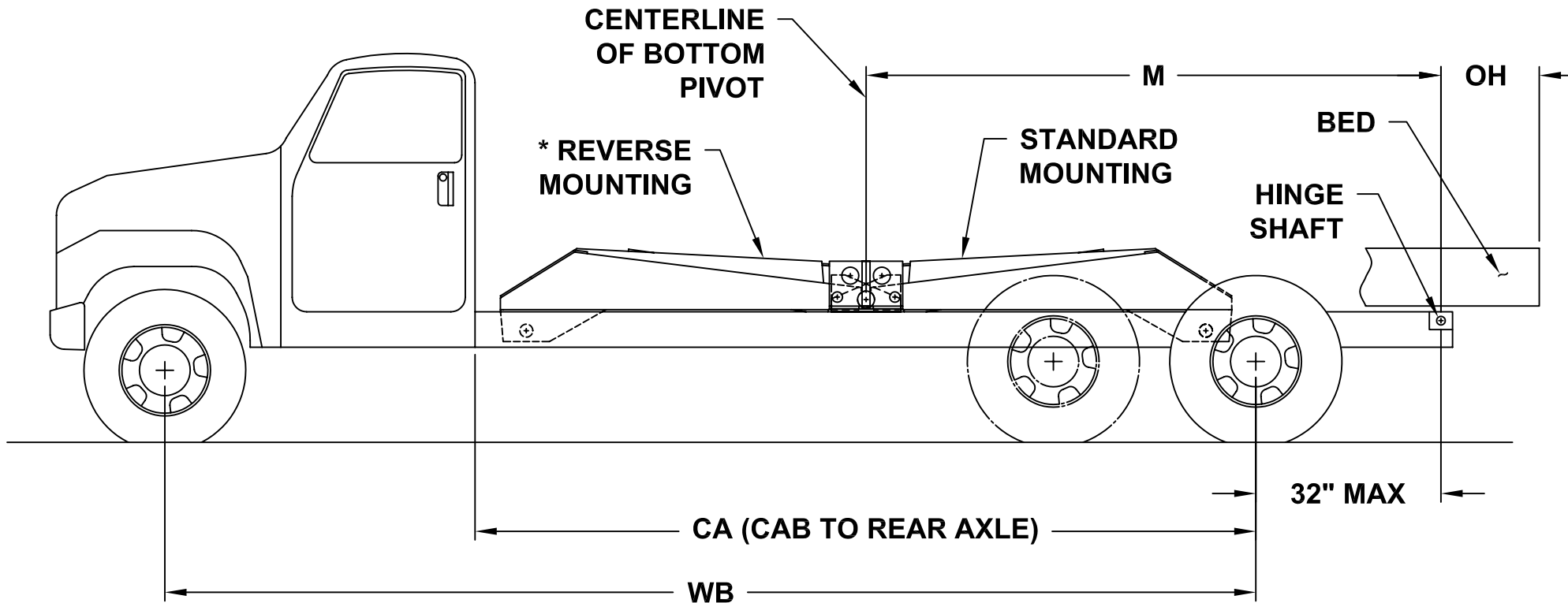


TITLE  
**MOUNTING DIMENSIONS**

**VC 5520 / VC 6620 HOIST**

DATE  
**3-10-05A** SECTION  
**H100**

SUPERSEDES  
**9-30-98** **662053**



## VC 628 AND VC 6628 HOISTS

### STANDARD MOUNTING

DUMP ANGLE	M
40°	146"
45°	130-1/2"
50°	118-1/4"

### \*REVERSE MOUNTING

DUMP ANGLE	M
40°	140"
45°	129"
50°	115"

FIGURE 1.B



TITLE  
**MOUNTING DIMENSIONS**

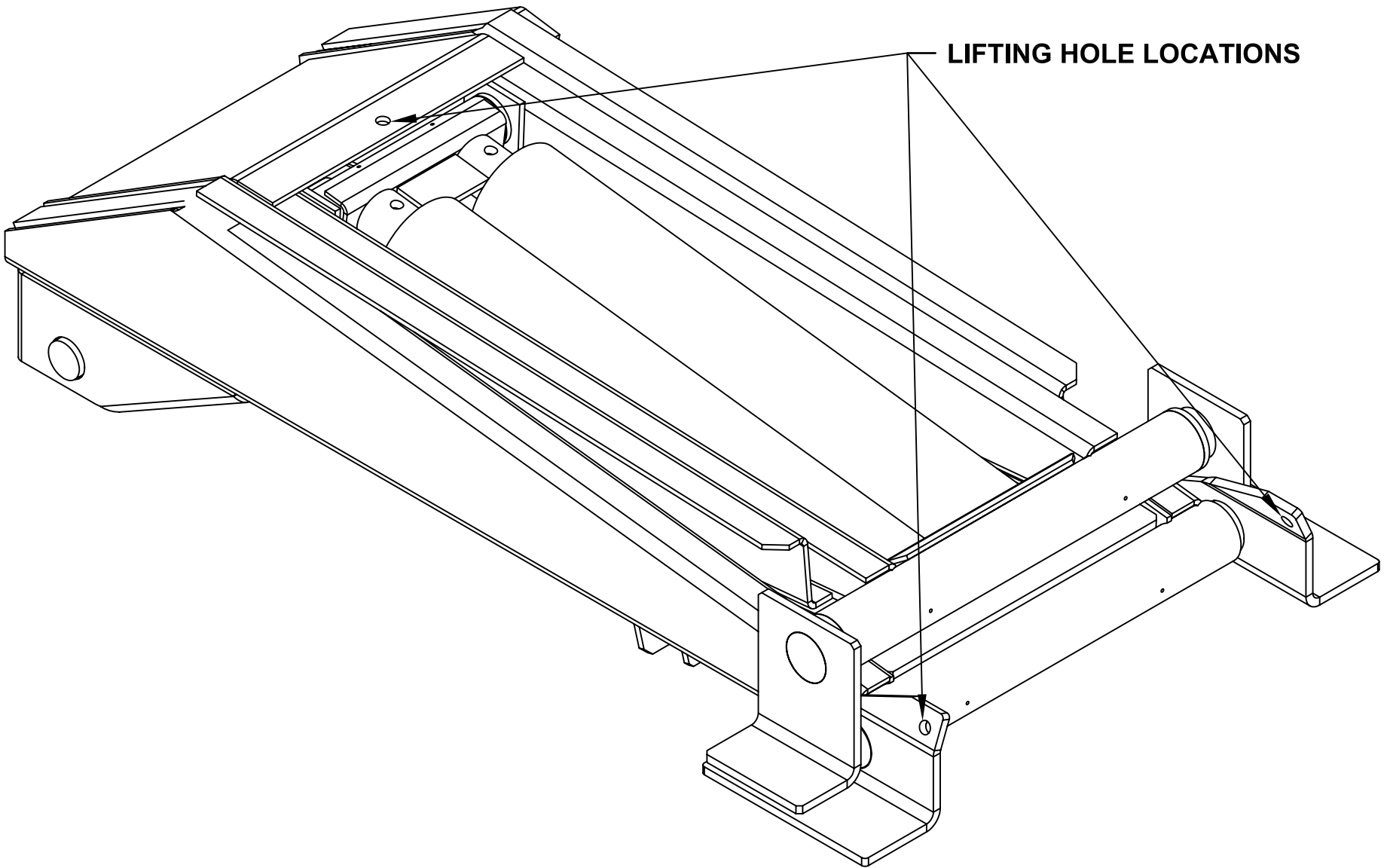
**VC 628 / VC 6628 HOIST**

DATE  
**3-10-05A**

SUPERSEDES  
**9-30-98**

SECTION  
**H100**

**628021**



TITLE	HOIST LIFTING HOLE LOCATIONS
VC 6620 - VC 6628	

DATE	3-11-05A
SUPERSEDES	2-6-02

SECTION	-
	<b>662864</b>

# HOIST MOUNTING INSTRUCTIONS

Refer to drawings 520071, 662053, or 628021 (on the preceding pages).

**CAUTION**

*If the distance between the centers of the rear axle and the rear hinge assembly exceeds 38", additional reinforcement of the truck frame is necessary.*

- A. Mark the location for the rear hinge. Ideally this location will be immediately behind a truck cross member approximately 34" behind the center of the rear axle on a single axle truck.
- B. Cut a 90° slot in each side of the frame as shown in Figure 2.
- C. 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). See installation drawing 662861 on the following page for information regarding the mounting of the rear hinge brackets to the body.

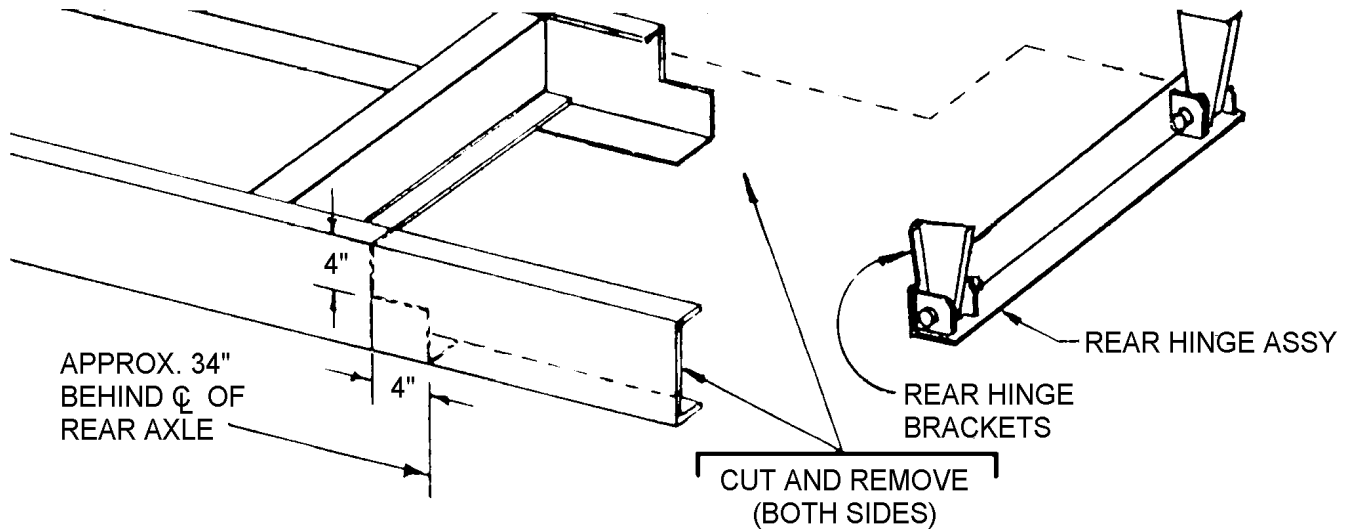


Figure 2 - Frame Modification and Rear Hinge Attachment

- D. Locate the hoist on the truck frame, making sure to center and square the hoist to the truck frame. The VC Hoist is designed to rest on the truck frame. A section of the hoist extends below the truck frame level. Therefore, the hoist may have to be moved slightly forward or backward to avoid frame crossmembers. The distance between the rear hinge assembly center and the hoist center is referred to as the "M" dimension. The tables on drawings 520071, 662053, and 628021 provide the dump angles associated with various "M" dimensions.

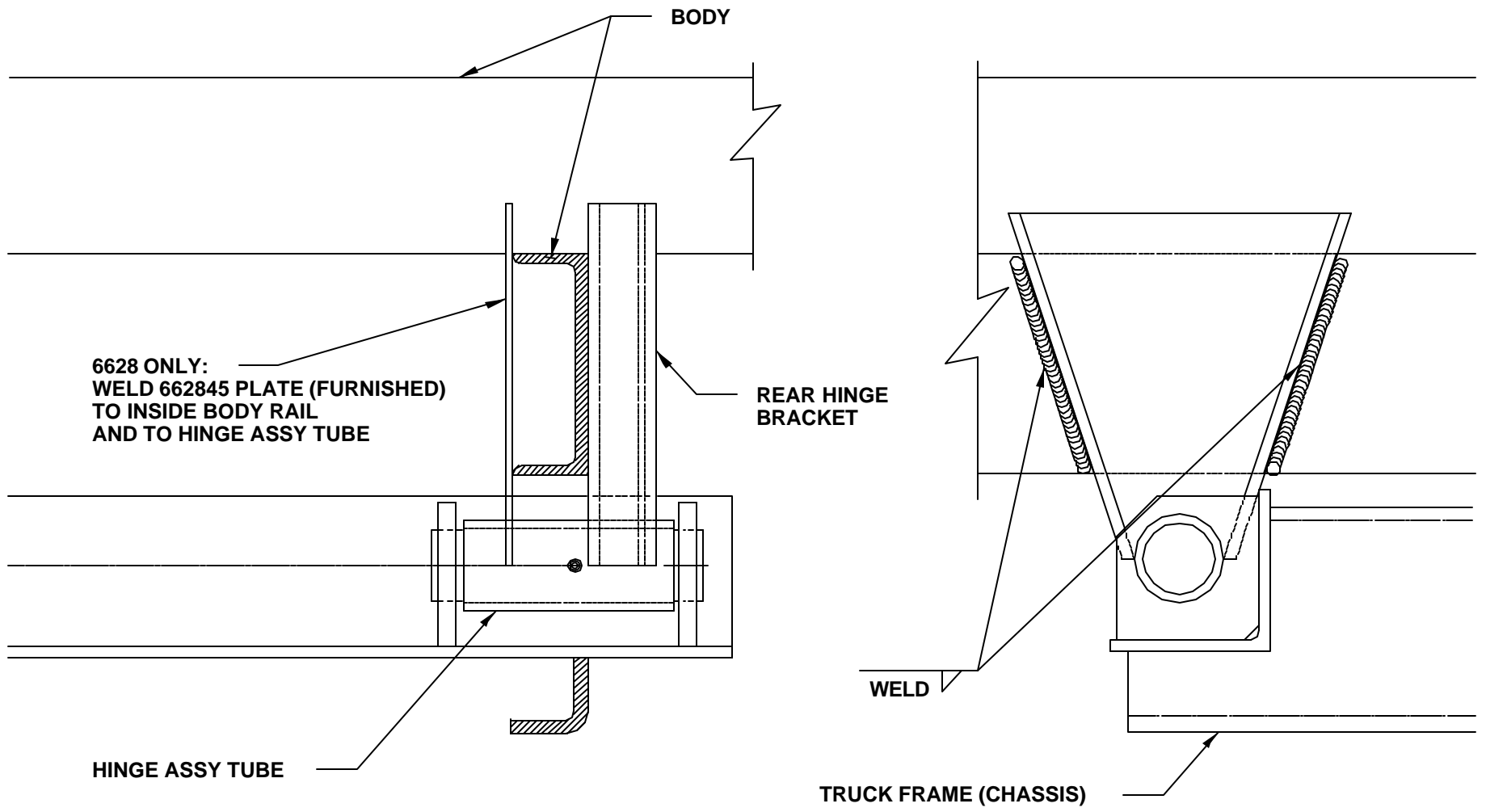
Note: Moving the hoist along the truck frame will affect the hoist's performance. A forward movement decreases dump angle and increases capacity. A backward movement increases dump angle and decreases capacity.



TITLE  
**MOUNTING INSTR.**  
VC 520 - VC 6628

DATE  
**10-27-97B**  
SUPERCEDES  
**9-4-97A**

SECTION  
**H200**  
**520072**



TITLE <b>REAR HINGE TO BED MTG. INSTR.</b>	DATE <b>6-28-97A</b>	SECTION <b>H200</b>
<b>VC 520 - VC 6628</b>	SUPERSEDES <b>10-23-97</b>	<b>662861</b>

## HOIST MOUNTING INSTRUCTIONS (Continued)

E. After the hoist is positioned, place the mounting angles (Figure 4) under each side of the hoist saddle and against the truck frame. Clamp securely in place. Drill through the frame (17/32") and install the mounting angle with three (3) 1/2" x 1-1/2" Grade 8 hex head cap screws, lock washers, and hex nuts (both sides).

NOTE: The hoist mounting bracket 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 hoist saddle.

Do not weld the hoist mounting bracket to the truck frame. This may void the truck warranty.

F. Weld each end of the hoist saddle to its mounting angle as shown in Figure 4. Note the welding symbols. Do not weld to the truck frame.

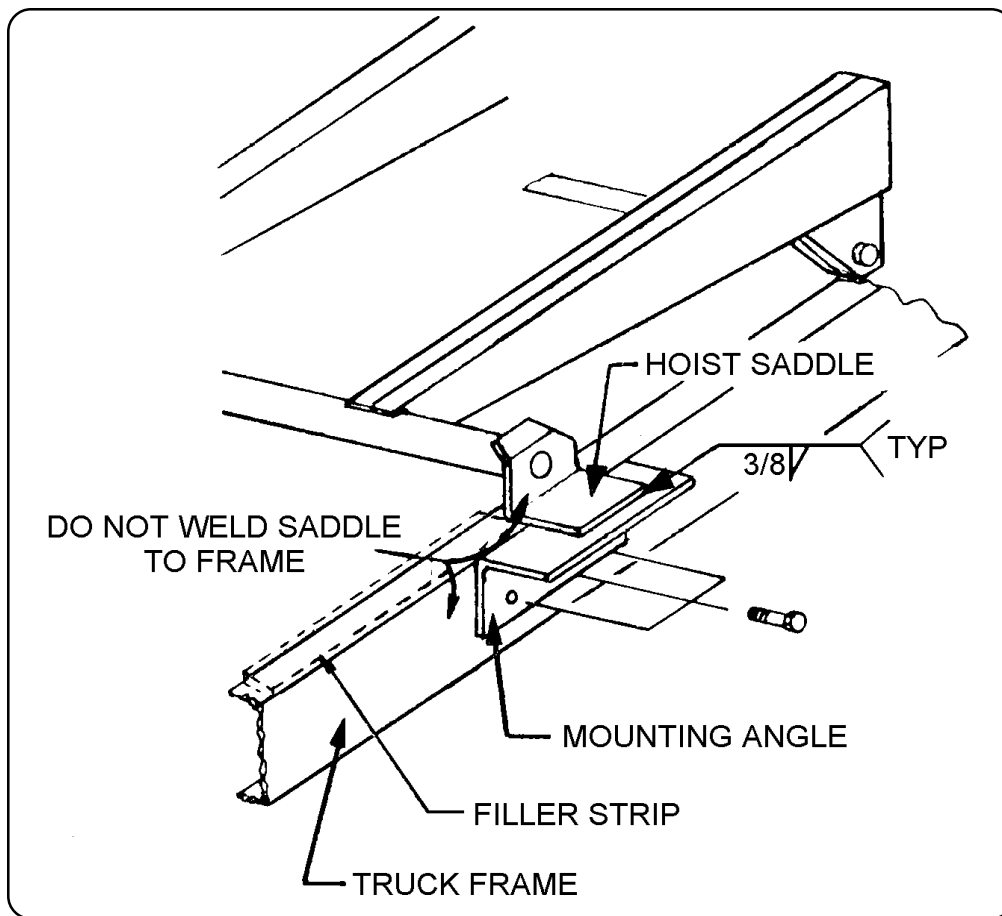


Figure 4 - Mounting Angle Assembly



TITLE  
**MOUNTING INSTR.**  
 VC 520 - VC 6628

DATE  
**9-4-97A**  
 SUPERCEDES  
**3-15-90**

SECTION  
**H200**  
**520074**

## HOIST MOUNTING INSTRUCTIONS (Continued)

G. Install the PTO pump per the following instructions and per the pump manufacturer's instructions.

1. See Figure 5. Position and bolt each pump bracket to the pump and secure with the 3/8 x 1-1/4" bolts and hex nuts (VC-520 requires only 2 pump brackets).
2. Position the pump assembly with brackets and securely clamp to the frame on the same side that the transmission mounted PTO shaft is located.

Note: Position the pump brackets as high on the truck frame as possible when mounting the pump.

3. Two (2) 17/32" holes need to be drilled in the pump brackets and truck frame (Figure 5). Mark the hole locations as close to the truck frame flanges as possible. Drill 17/32" holes and install the 1/2" x 1-1/2" hex head cap screws with lockwashers and hex nuts.

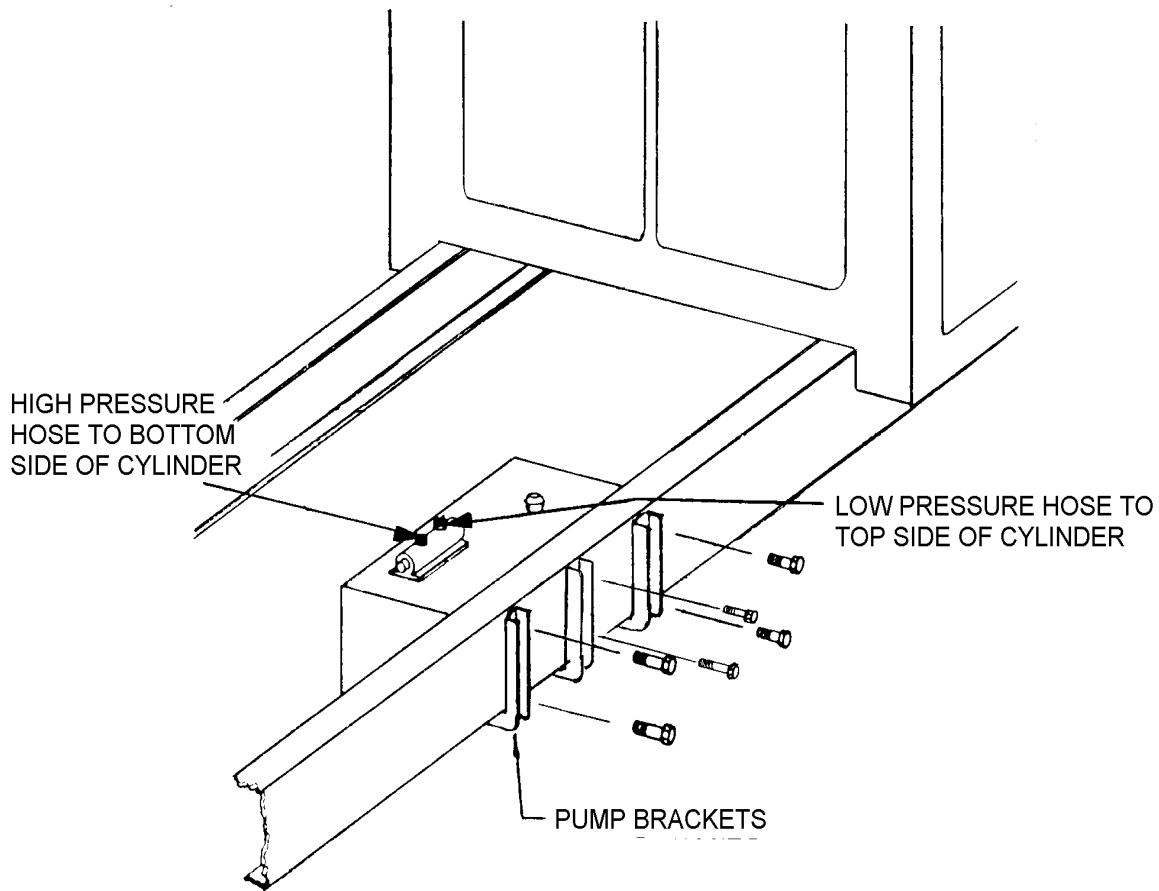


Figure 5 - Pump Installation



TITLE  
**MOUNTING INSTR.**  
VC 520 - VC 6628

DATE  
**9-4-97A**  
SUPERCEDES  
**3-15-90**

SECTION  
**H200**  
**520075**

## HOIST MOUNTING INSTRUCTIONS (Continued)

4. Install the truck PTO assembly using the manufacturer's instructions.
5. Determine the exact length "L" of the drive shaft (Figure 6). The drive shaft should be kept as short and level as possible.
6. Cut the 7/8" square drive shaft to the length that was determined in the previous steps.
7. The supplied U-joint (with the 1" round x 7/8" square slip yoke) fits on the pump drive shaft. The U-joint for the PTO is not furnished.
8. Trial fit each U-joint to the hex drive shaft and trial fit the drive shaft assembly to the pump and PTO. At this point, mark the set screw locations of the PTO U-joint on the square drive shaft. Disassemble the drive shaft assembly and countersink the drive shaft at the marked locations.
9. Assemble each U-joint to the hex drive shaft and install the drive shaft assembly. After installing, secure the PTO U-joint to the drive shaft using 3/8" x 5/8" drilled hex head set screw (furnished). Safety wire all (3) screws to insure that they do not loosen.
10. For additional pump and drive shaft mounting instructions, refer to the manufacturer's instructions included with the pump. Refer to Figures 6 and Dwg. 520078.

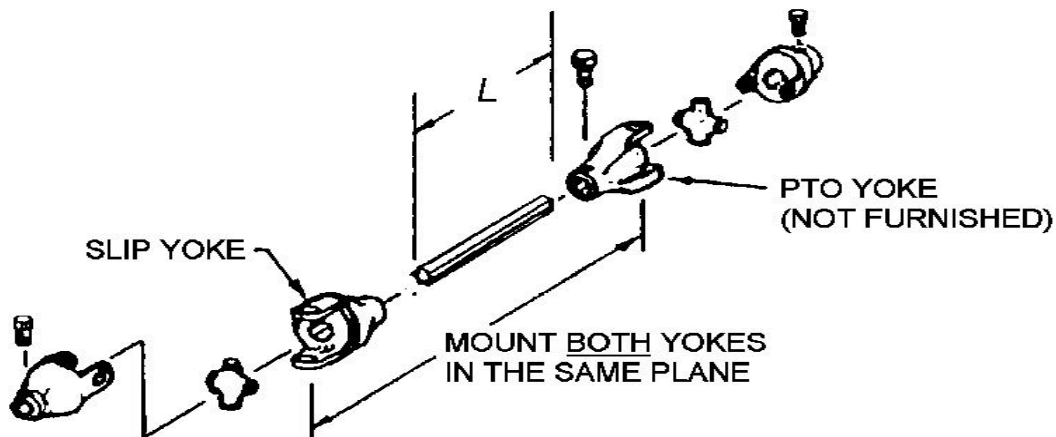


Figure 6 - Drive Shaft Assembly

### H. 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 (Figure 5).
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 (Figure 5).



TITLE  
**MOUNTING INSTR.**  
VC 520 - VC 6628

DATE  
**5-20-99D**  
SUPERCEDES  
**11-17-98C**

SECTION  
**H200**  
**520076**



## HOIST MOUNTING INSTRUCTIONS (Continued)

- I. Position and secure the filler strips (liner or sleeper) to the truck frame (Figure 4).

The VC 520 and VC 620 require a minimum of 7-1/2" clearance above the truck frame.

The VC 628 requires a minimum of 8" clearance above the truck frame.

The VC 5520 and VC 6620 require a minimum of 8-1/2" clearance above the truck frame.

The VC 6628 requires a minimum of 10-1/2" clearance above the truck frame.

Example: Assuming that a 7-1/2" clearance is required and 5" long beams are on the truck body, a liner of at least 2-1/2" net will be required to obtain the minimum clearance required to mount the hoist.  
 $5" + 2-1/2" = 7-1/2" \text{ min.}$

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

Note: At least 2" are required for clearance between the cab and closest point on the truck body.

- K. Place the rear hinge brackets in the vertical position (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" lockwashers, and eight (8) 1/2"-13 hex nuts.

- L. **Refer to Drawing 520093 on the following page.** Make sure that the dump body longitudinals are resting flush on the top of the spacers (which are welded to 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, spacers, and reinforcement plates (if used). **Be sure that your installation follows the method shown on the following page - Drawing 520093.**

Note: Step "L" (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.

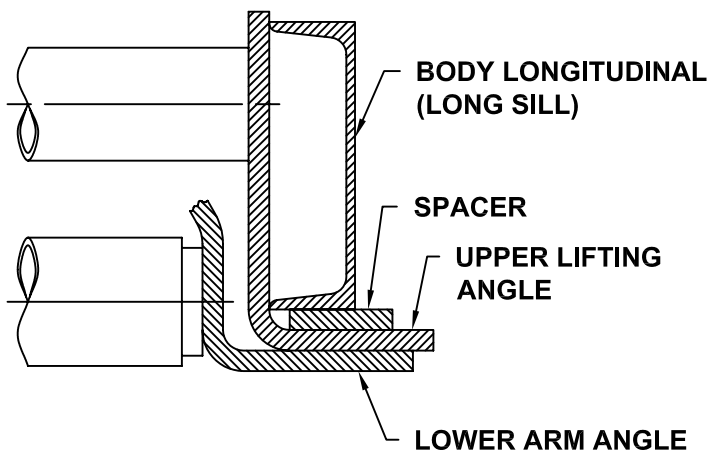


TITLE	DATE	SECTION
MOUNTING INSTR.	5-19-98	H200
VC 520 - VC 6628	SUPERCEDES 9-4-97	520077

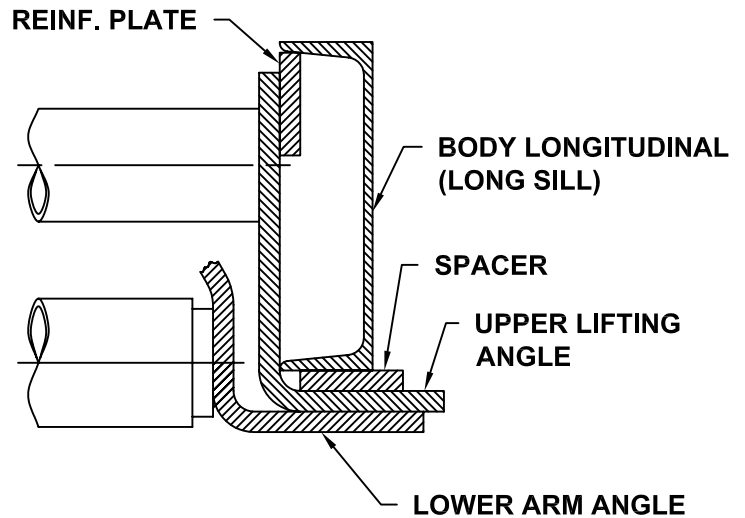
**IMPORTANT!**

**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.**

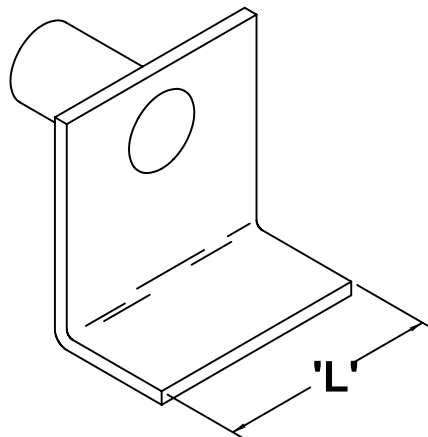
**SITUATION A:  
LIFTING ANGLE FULLY  
ENVELOPS BODY LONG SILL.**



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



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



TITLE  
**INST. INSTRUCTIONS**

DATE  
**4-28-05B**

SECTION  
**H200**

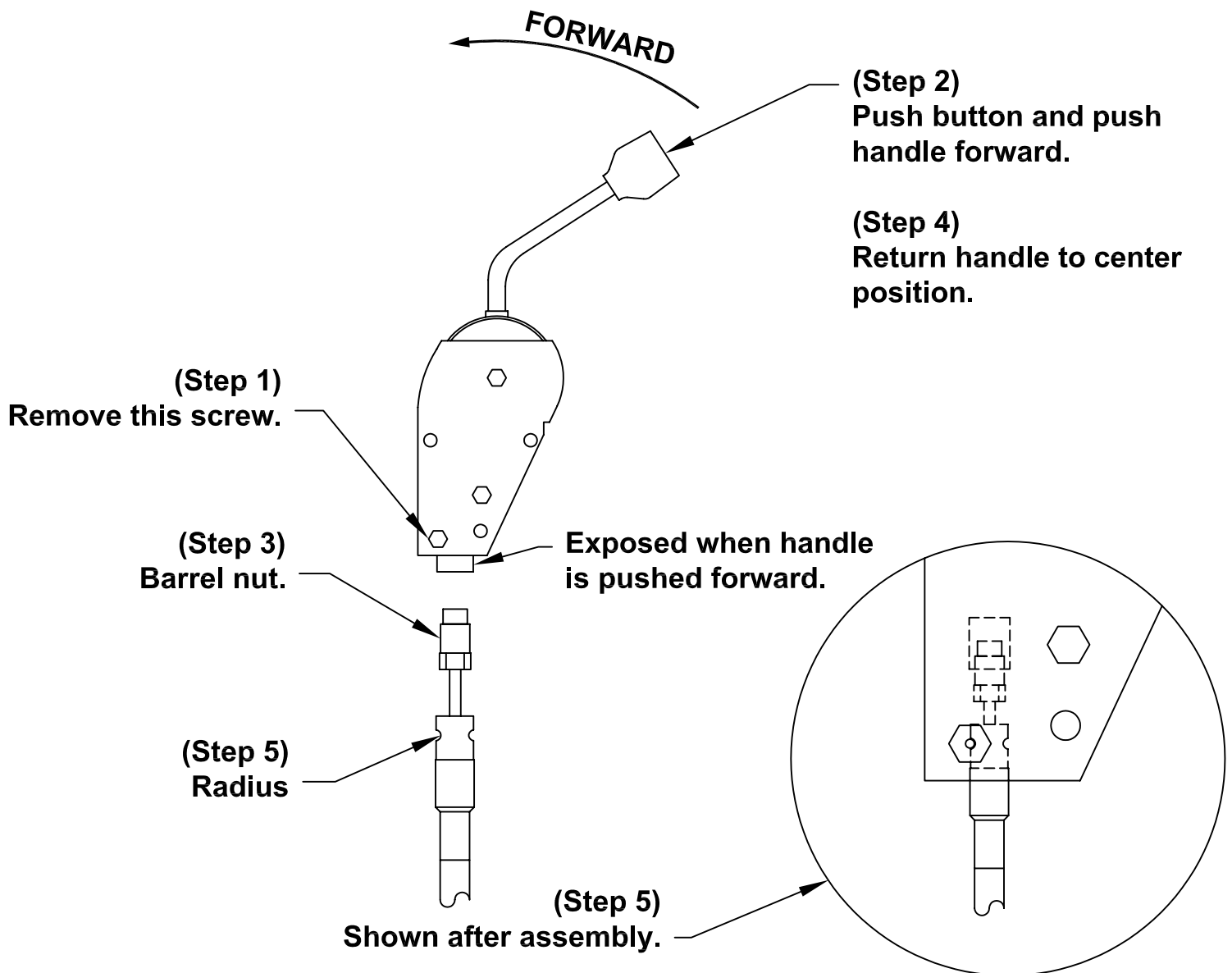
▲ **VC416-6628, TRL313-6628**

SUPERSEDES  
**3-21-05A**

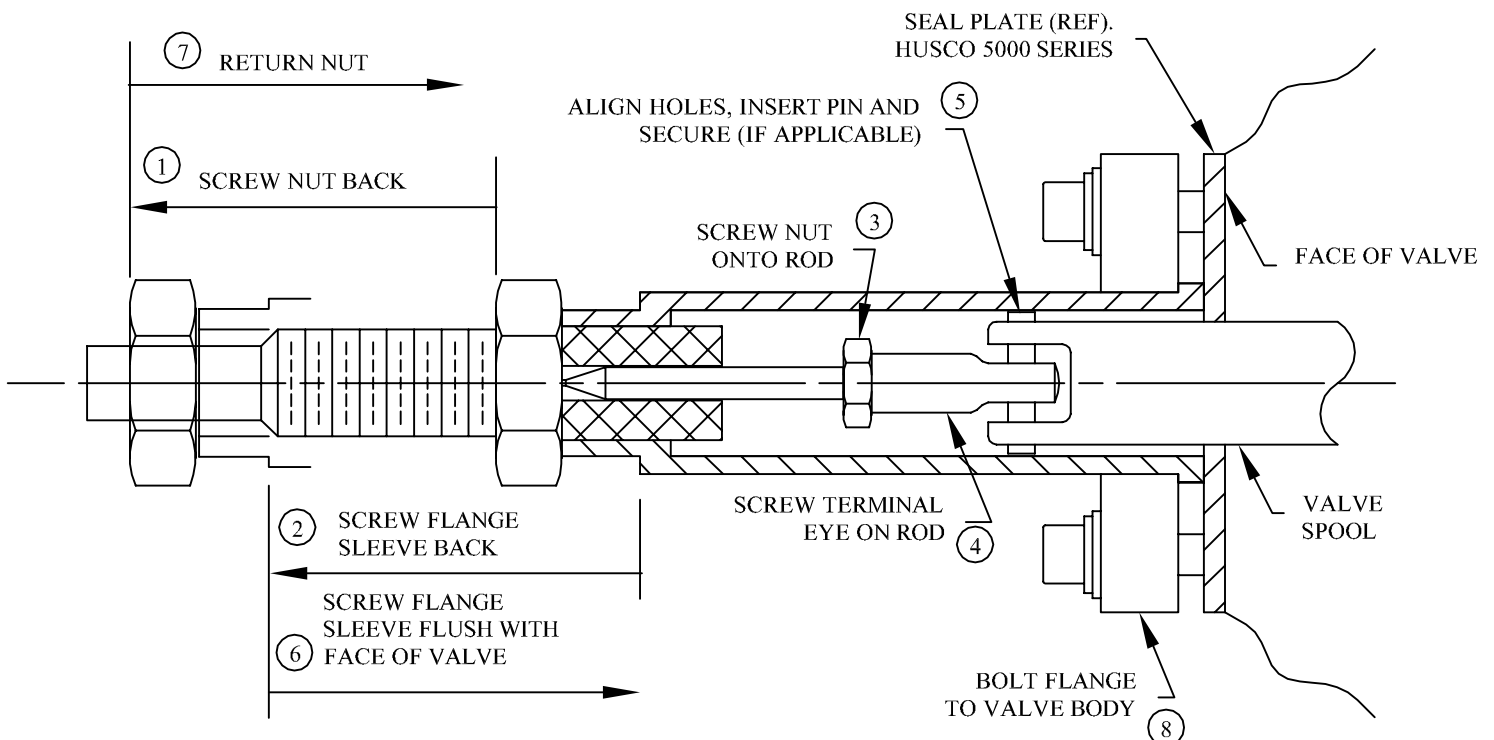
**520093**

# ATTACHING 620129 CABLE TO 620131 / 2 HANDLE

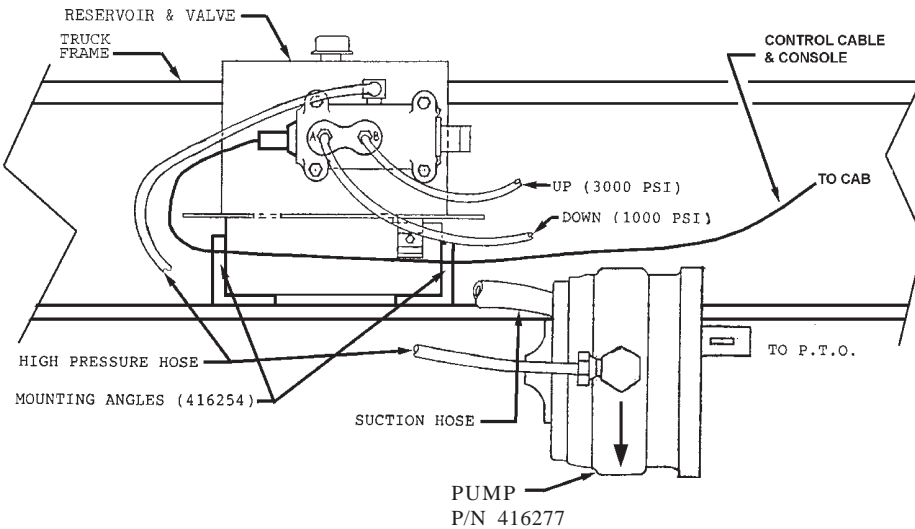
- Step 1. Remove lowest screw & nut.
- Step 2. Depress red button on top of handle. Push handle forward and hold.
- Step 3. While holding handle, thread "barrel nut" into threaded hole in bottom and tighten.
- Step 4. Release handle. Handle should return to center position.
- Step 5. Replace screw & 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.



1. Thread .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. Thread .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 .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 lockwashers under head and two (2) flat washers under lockwashers. Tighten screws sufficiently to flatten lockwashers or secure flange. Caution any further torquing/overtightening will distort flange.

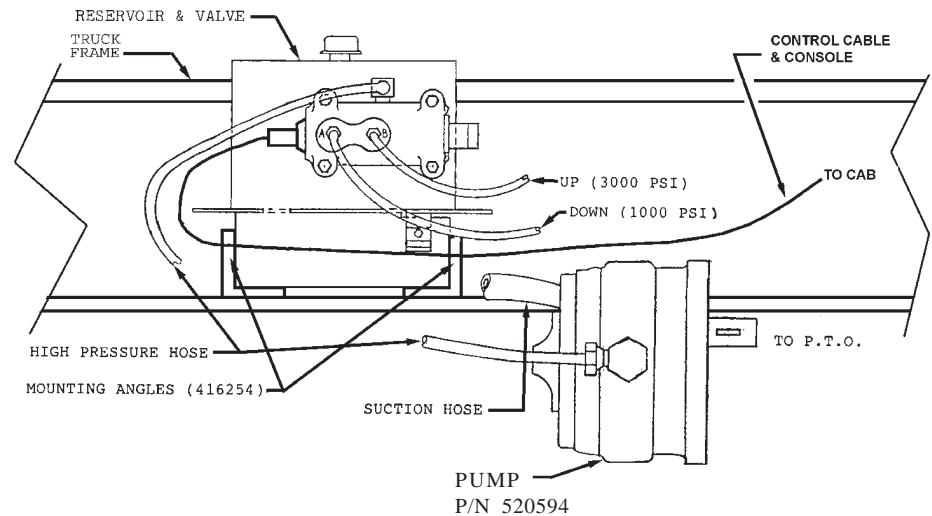


### DIRECTIONAL PUMP CONFIGURATION FOR VC416 - VC620



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

### BI-ROTATIONAL PUMP CONFIGURATION FOR VC628 & UP



NOTE: FOR BI-ROTATIONAL PUMP MOUNTING AND HOSE CONNECTION  
INFORMATION, SEE DRAWING 416812.

Model	VC416	VC516	VC520	VC620	VC628	VC5520	VC6620	VC6628
Control Cable & Console	620125 - Curved				620124 - Straight			
Up Hose	416044 ▲		▲ 520574		▲ (2) 520574			
Down Hose	416045				628041	(2) 416045		(2) 628041
High Pressure Hose	416045							
Suction Hose	416079				520088F			
Pump/Valve/Tank	620011 (9 QUART)				662077 (21 QUART)			
Pump (Only)	416277				520594			
Mounting/Spline Information	SAE "A" 2 BOLT MOUNTING FLANGE, 5/8"-9 SPLINE SHAFT, CCW ROTATION				SAE "B" 2 BOLT MOUNTING FLANGE, 7/8"-13 SPLINE SHAFT			



MANUFACTURING, INC.

TITLE  
**SPLIT PUMP**

**VC 416/516, VC 520 - 6628**

DATE  
**3-2-06C**

SUPERCEDES  
**10-6-05B**

SECTION  
**H200**

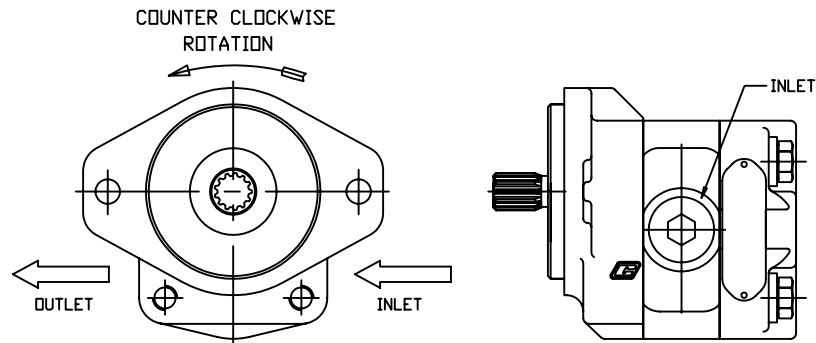
**416811**

# BI-ROTATIONAL PUMP INSTALLATION

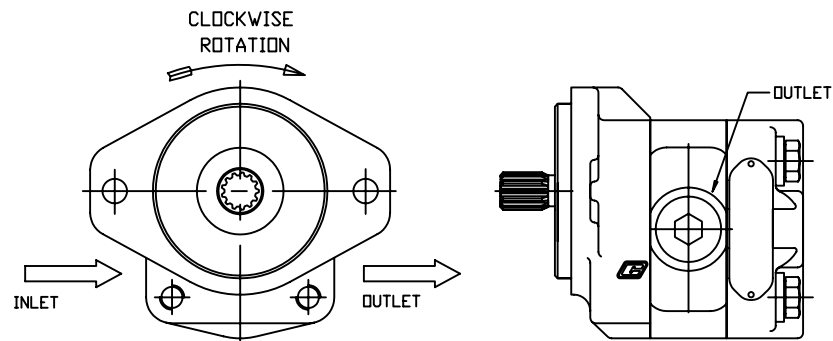
TO VERIFY THE INLET PORT ON A BI-ROTATIONAL PUMP, DETERMINE WHICH WAY THE SHAFT OF THE PUMP IS GOING TO TURN FROM THESE TWO SAMPLE DIAGRAMS AND PLUMB ACCORDINGLY.

NOTE: DO NOT OPERATE THE PUMP WITHOUT OIL.

CLOCKWISE ROTATION PTO  
REQUIRES COUNTER CLOCKWISE  
ROTATION PUMP



COUNTER CLOCKWISE ROTATION PTO  
REQUIRES CLOCKWISE  
ROTATION PUMP



3098



MANUFACTURING, INC.

TITLE

**BI-ROTATIONAL PUMP INSTALLATION**

**VC416/516, VC 520 - 6628**

DATE

**6-2-05**

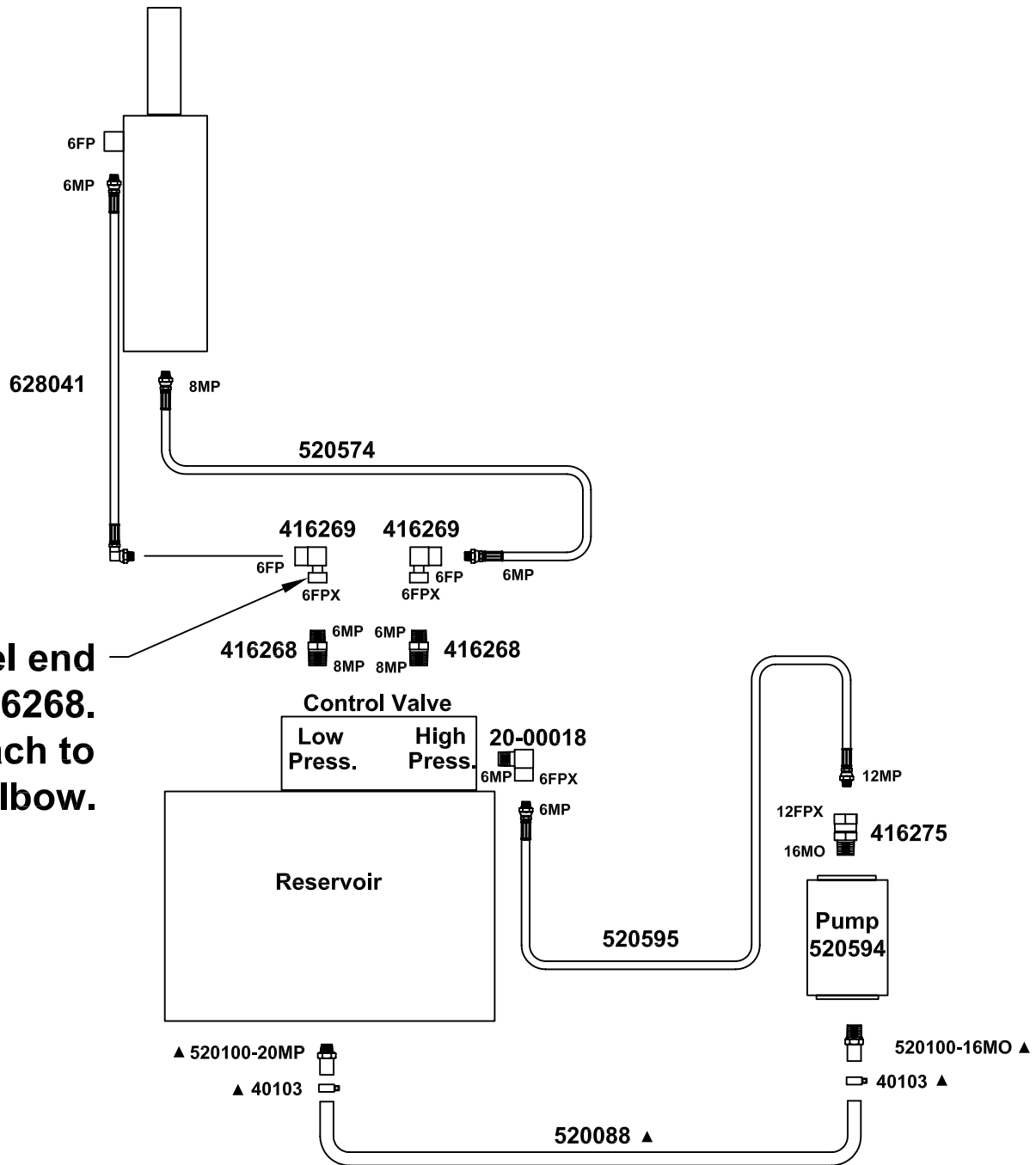
SUPERSEDES

-

SECTION

-

**416812**

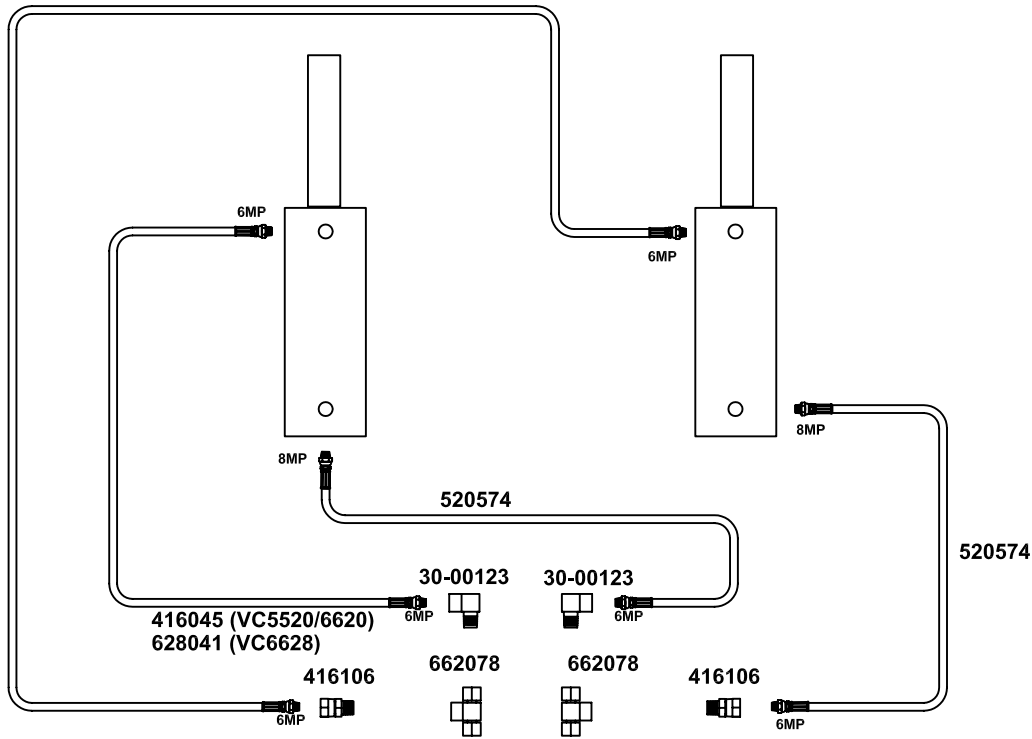




**NOTE: Thread swivel end of elbow fitting over 416268. Hoses will attach to non-swivel end of elbow.**



TITLE	DATE	SECTION
<b>SPDG HOSE CONNECTION DIAGRAM</b>	<b>5-11-05C</b>	-
VC628	SUPERSEDES <b>5-3-05B</b>	<b>628032</b>

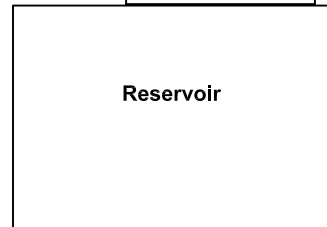
416045 (VC5520/6620)  
628041 (VC6628)



416268   416268

Control Valve

Low Press. High Press.



▲ 520100-20MP  
▲ 40103

12MP  
12FPX 16MO 416275

Pump  
520594

520100-16MO ▲  
40103 ▲

520088 ▲



TITLE

SPDG HOSE CONNECTION DIAGRAM

VC5520, VC6620, VC6628

DATE

5-11-05C

SUPERSEDES

5-2-05B

SECTION

-

552003



# HOIST MAINTENANCE AND OPERATION INSTRUCTIONS

## A. Hoist Unit Lubrication

1. PTO Driven Pump - Tighten and grease (with high quality commercial grade grease) the lube fittings located in the PTO drive shaft assembly.
2. Lubricate all grease fittings on the hoist unit.
3. Lubricate the rear hinge assembly.
4. 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.
5. 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.

### WARNING

*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.*

### CAUTION

*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 knob out. This will cause the hoist to raise. Refer to Drawing 520078.
3. When the hoist 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.

### CAUTION

*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 knob in.

### NOTE

The Venco Hoists 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.

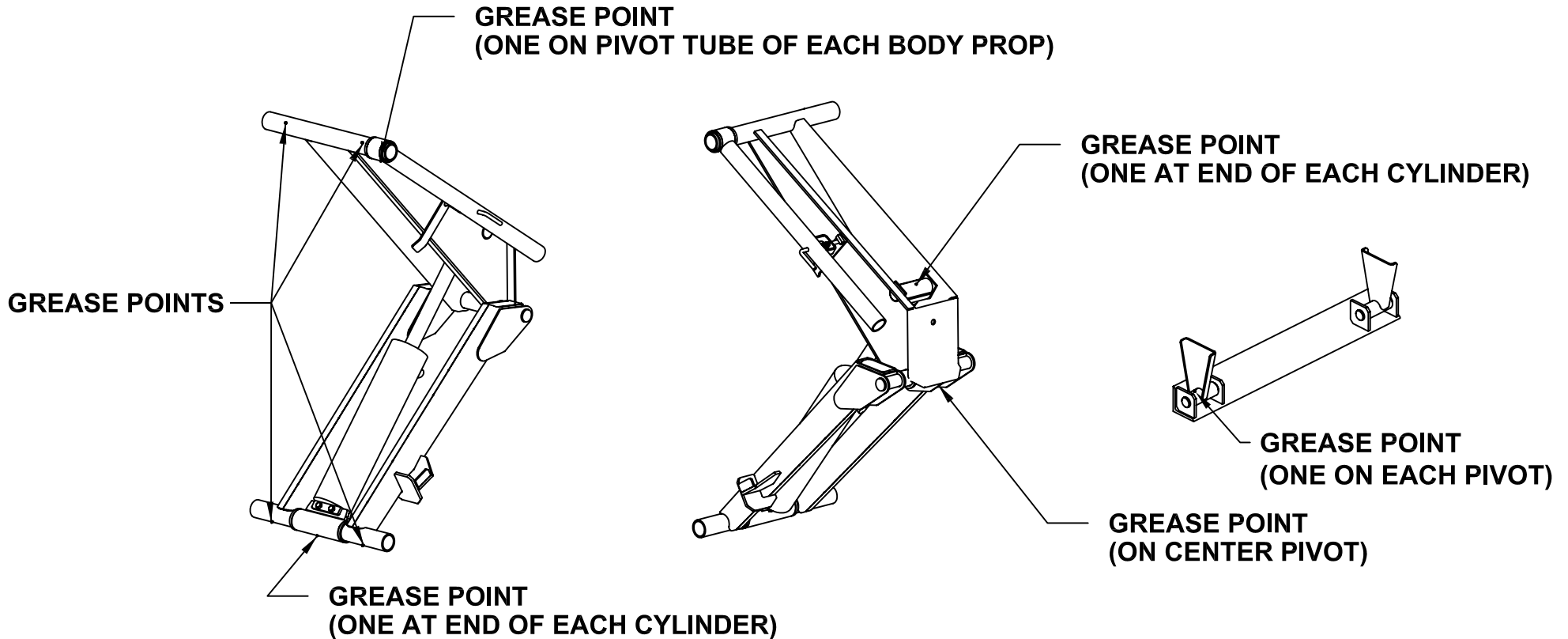
### WARNING

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



TITLE	DATE	SECTION
MAINT. & OPER. INSTR.	9-4-97A	H200
VC 520 - VC 6628	SUPERCEDES 3-15-90	520079

# 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 HINGE ARE SHOWN ABOVE. ADDITIONAL FITTINGS FOR TWIN CYLINDER HOISTS AND ADDITIONAL BODY PROPS ARE ALSO NOTED.



TITLE

GREASE POINTS FOR HOISTS

DATE

3-11-05A

SECTION

-

VC416/516/520/620/628/5520/6620/6628

SUPERSEDES

9-4-02

520054

## BODY PROP USE AND WARNINGS

D. Body prop(s): Federal Regulation 1926.601, Paragraph 10, 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.

### 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*

*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.*

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

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 inspection 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.

Note: For all dump bodies two (2) body props are required.


3. On models equipped with a spring-loaded release pin, use a suitable tool to pull out the release pin to release the body prop from the hoist frame. This will release the body prop allowing it to swing downward to a vertical position.
4. 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.
5. 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

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



TITLE	DATE	SECTION
<b>BODY PROP INSTR.</b>	<b>5-24-02C</b>	<b>H200</b>
<b>VC 520 - VC 6628</b>	SUPERCEDES <b>5-6-01B</b>	<b>520081</b>

HOIST MODEL(S) 	VP/VC6	TRL313	VC416, TRL416	VC516, TRL516	VC520, TRL520	VC620, TRL620	VC628, TRL628
ES/ED Hyd Pwr Unit Part Number	6426 / 6425	40058M / 416081M	40058M / 416081M	40058M / 416081M	40058M / 416081M	40058MHD / 416081M	40058MHD / 416081M
Reservoir Capacity (Quarts)	3.4 / 3.4	4.6 / 3.4	4.6 / 3.4	4.6 / 3.4	4.6 / 3.4	5.4 / 3.4	5.4 / 3.4
Total Hydraulic Fluid Required (Quarts)	4	4	6	8	9	12	15
<b>Step 1</b> Attach base-end hose to cylinder. Do NOT attach the Rod-end hose at this time.	YES	YES	YES	YES	YES	YES	YES
<b>Step 2</b> Fill the hydraulic reservoir as recommended below. Use only hydraulic fluid - Tellus 32 or equivalent is recommended.							
2a With the hoist in the <u>down position</u> , add the indicated amount (Quarts) of hydraulic fluid.	2	2	3.5	3.5	3.5	3.5	3.5
2b Raise hoist <u>one-quarter</u> of the way (approximately 12° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.	-	-	-	1	1.5	2	3
2c Raise hoist <u>one-half</u> 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 <u>three-quarters</u> of the way (approximately 36° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.	-	-	-	1	1.5	2	3
2e Raise hoist <u>completely</u> (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
<b>Step 3</b> Attach the remaining hose to the Rod-end of they cylinder (not req'd on VP/VC6 & TRL313 hoists w/ ES hyd pwr unit)	ED ONLY	ED ONLY	YES	YES	YES	YES	YES



MANUFACTURING, INC.

TITLE

**FILLING HYDRAULIC RESERVOIR**

DATE

**6-16-05C**

SECTION

-

**VP/VC6-628, TRL313-628**

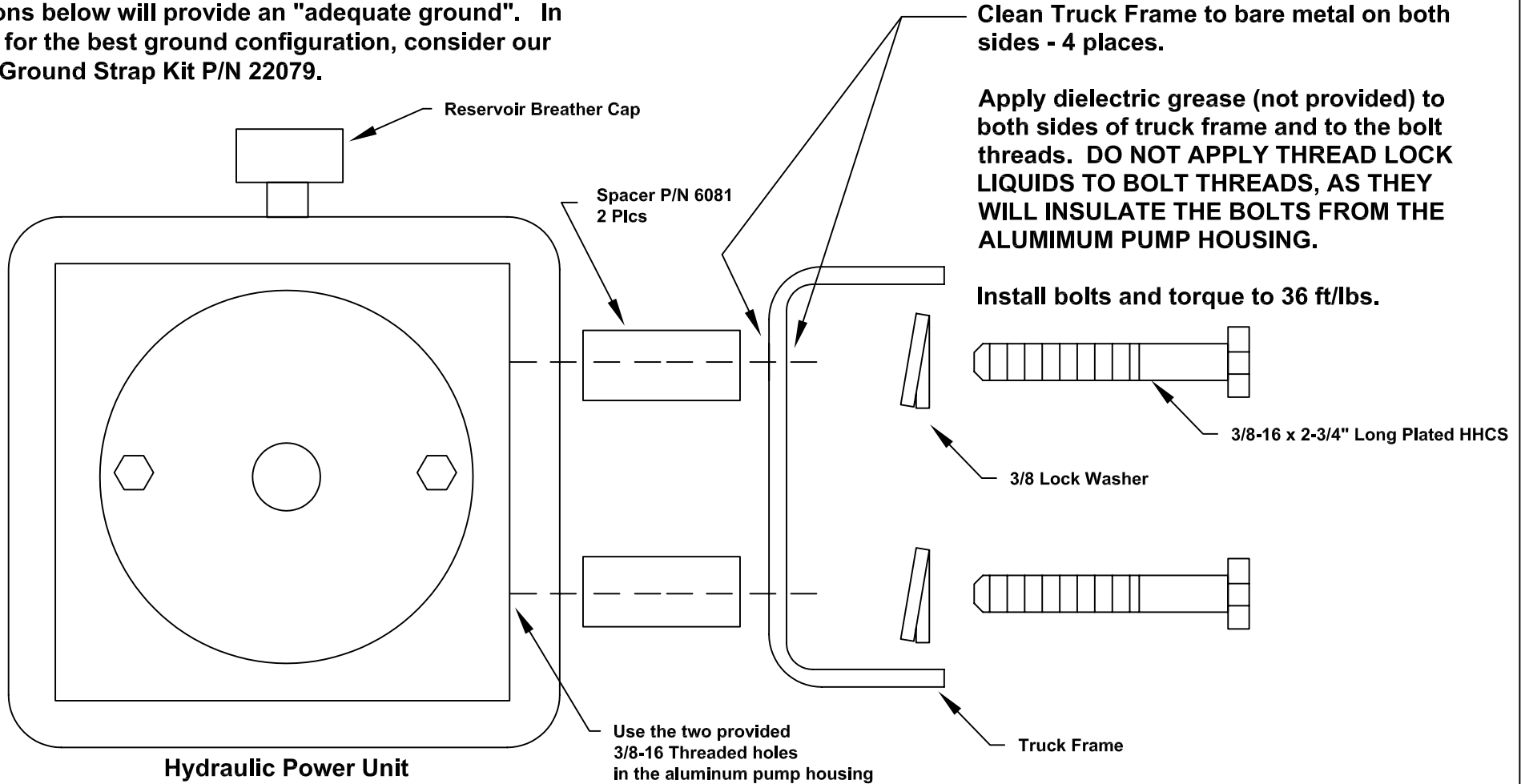
SUPERSEDES

**6-18-03B**

**416140**

# Proper Grounding of Hydraulic Power Units - IMPORTANT!!!

Note: 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 illustration below. The mounting instructions below will provide an "adequate ground". In addition, for the best ground configuration, consider our optional Ground Strap Kit P/N 22079.



TITLE

**HYDRAULIC POWER UNIT GROUNDING**

DATE

**6-3-05**

SECTION

-

VP6, VC416/516, VC520/620, VC628, TRL HOISTS

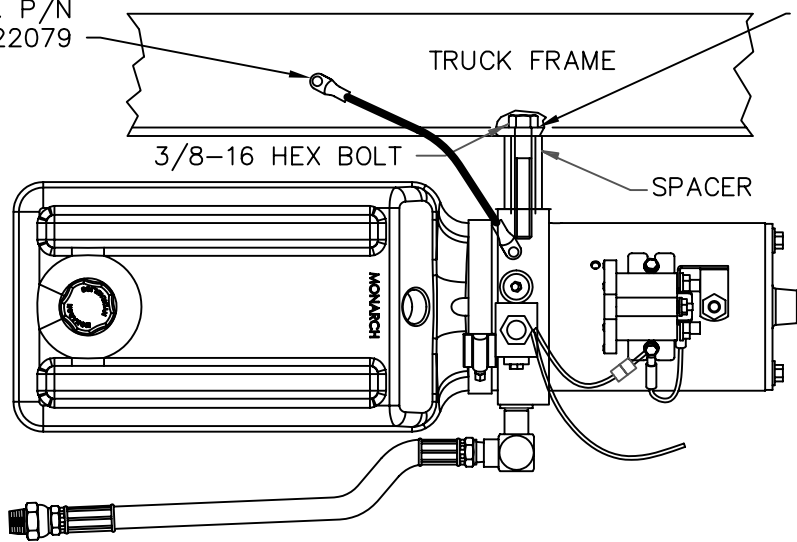
SUPERSEDES

-

**6368**

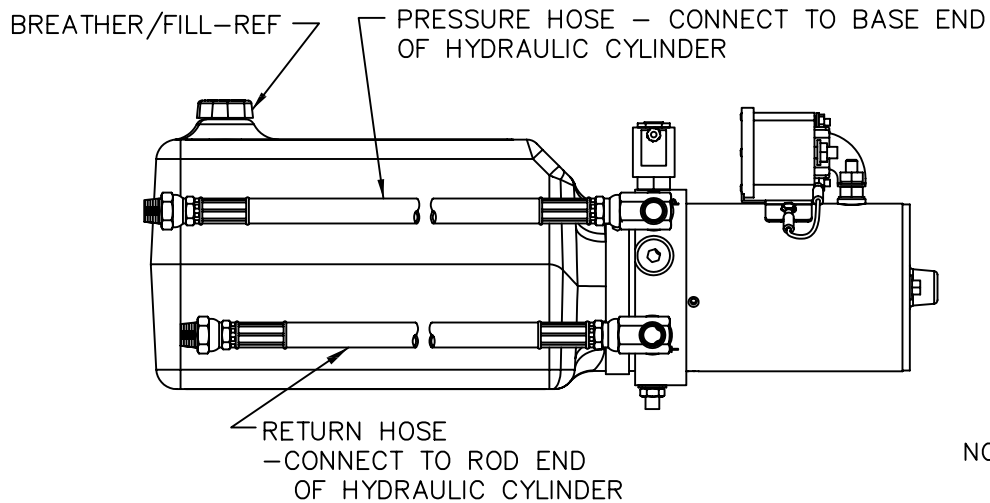
# 40058M

▲ OPTIONAL  
GROUND STRAP  
ASSY. P/N  
22079

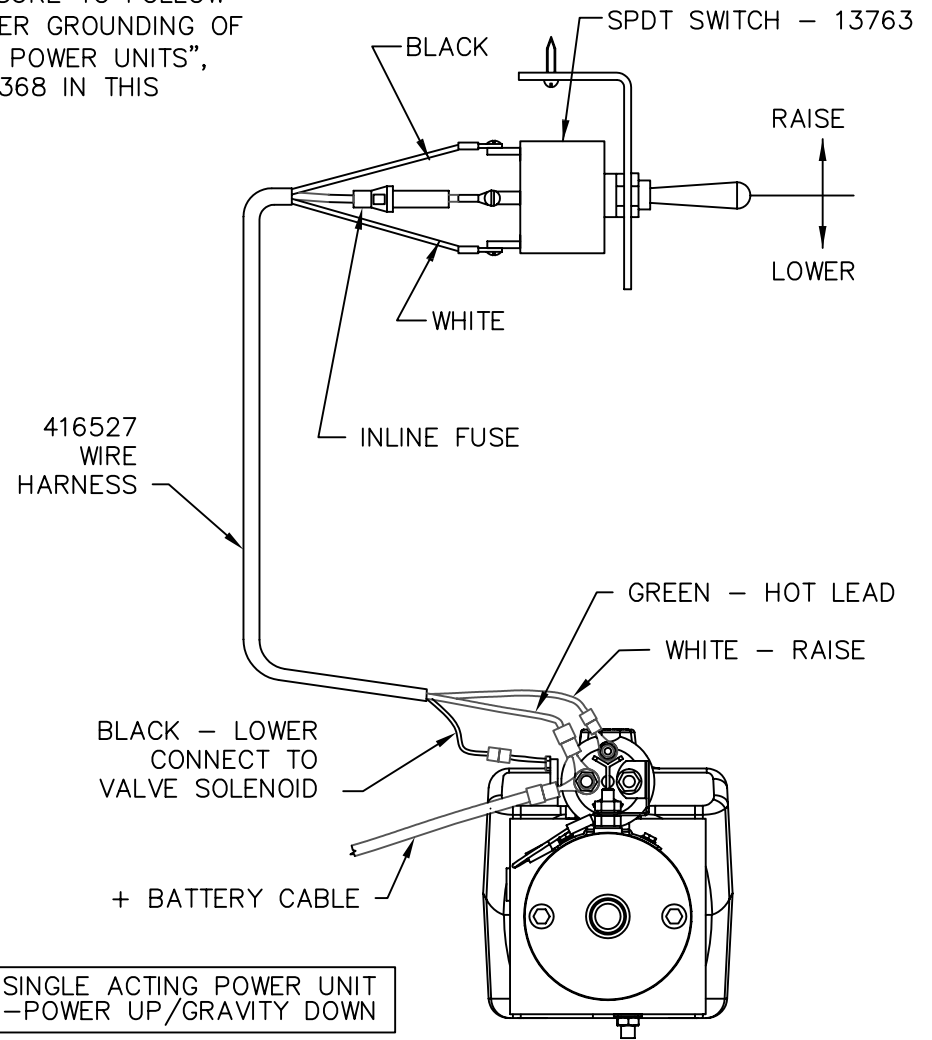


TOP VIEW

NOTE: BE SURE TO FOLLOW  
THE "PROPER GROUNDING OF  
HYDRAULIC POWER UNITS",  
DRAWING 6368 IN THIS  
MANUAL.



SIDE VIEW



SINGLE ACTING POWER UNIT  
-POWER UP/GRAVITY DOWN

NOTE: BE SURE POWER UNIT HAS  
GROUND TO TRUCK FRAME.

SEE DRAWING 416308  
FOR PARTS



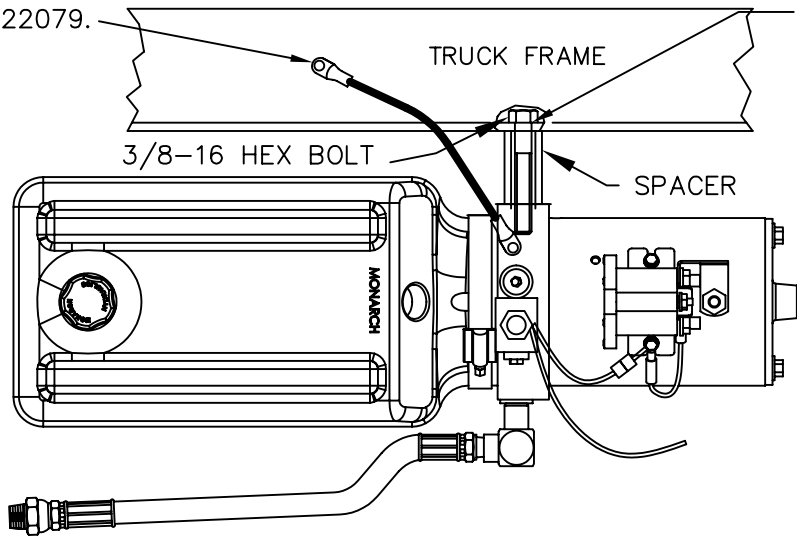
TITLE  
**40058M / 40058MHD POWER UNIT**  
**VC416/516/520/620/628**

DATE  
**6-6-05A**  
SUPERSEDES  
**12-2-04**

SECTION  
**H200**  
**416810**

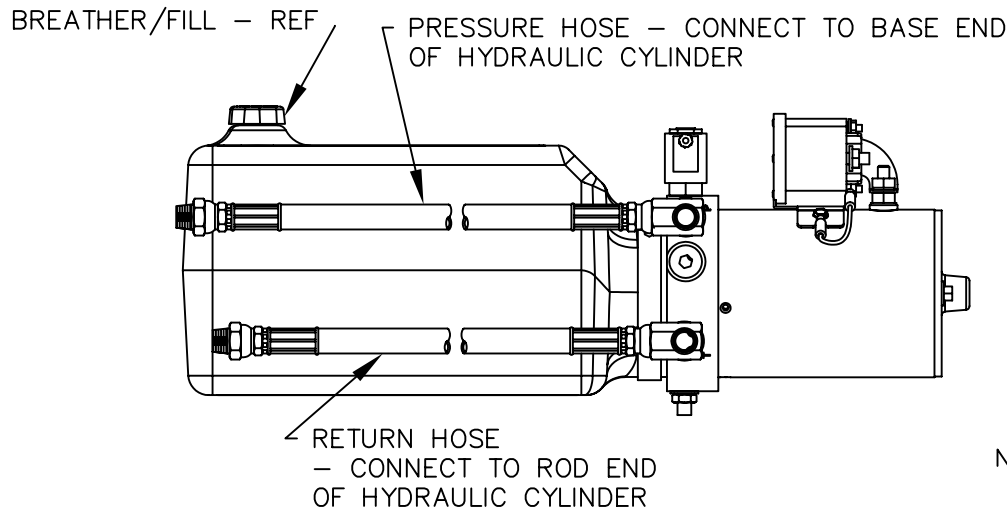
# 40058M WITH MONARCH PUSH BUTTON CONTROL

▲ OPTIONAL  
GROUNDING  
STRAP ASSY  
P/N 22079.

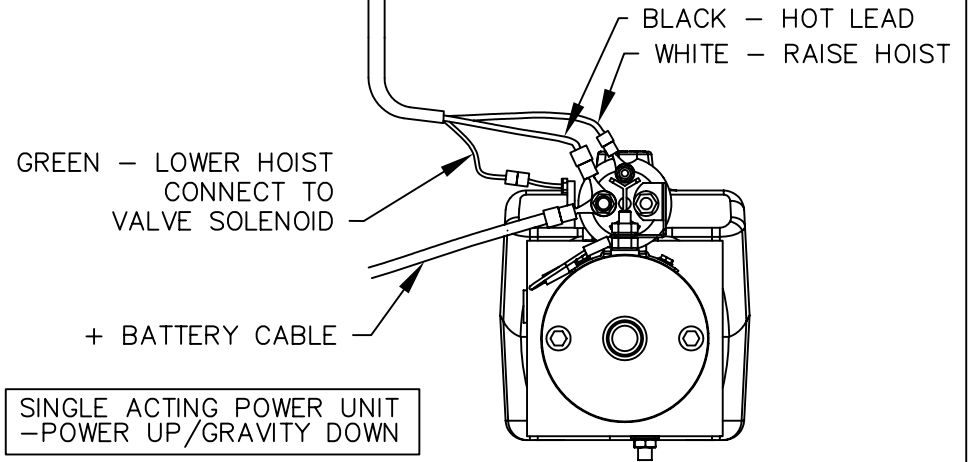
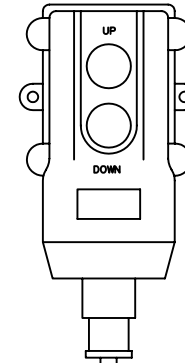


TOP VIEW

▲ NOTE: BE SURE TO FOLLOW THE "PROPER GROUNDING OF HYDRAULIC POWER UNITS", DRAWING # 6368, IN THIS MANUAL.



SIDE VIEW



SINGLE ACTING POWER UNIT  
-POWER UP/GRAVITY DOWN

NOTE: BE SURE POWER UNIT HAS  
GROUND TO TRUCK FRAME.

SEE DRAWING 416308  
FOR PARTS

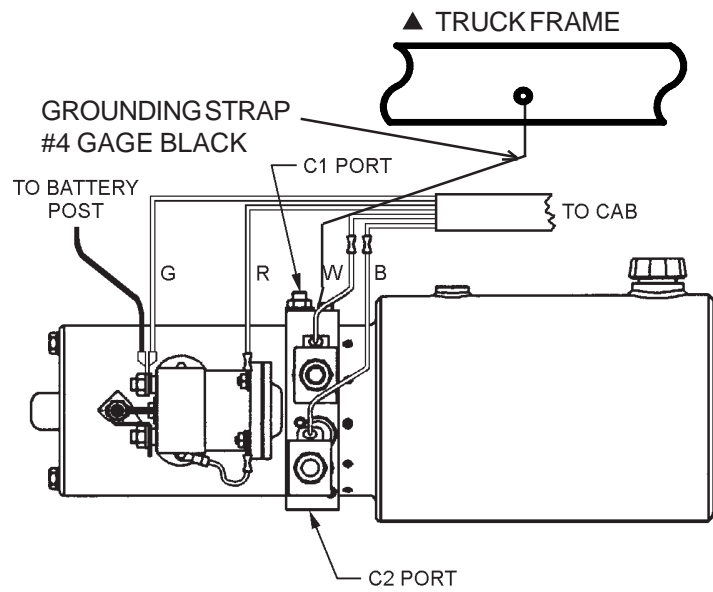


TITLE  
**40058M / 40058MHD POWER UNIT**  
VC416-628, TRL416-628

DATE  
**6-6-05C**  
SUPERSEDES  
**4-29-05B**

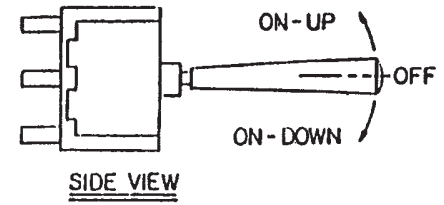
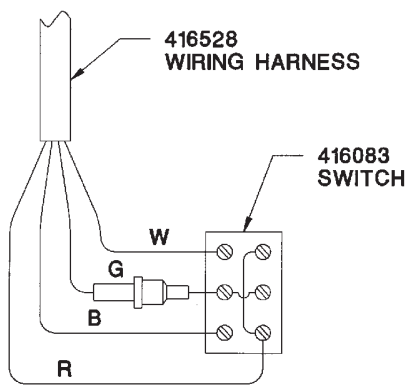
SECTION  
**H200**  
**416809**

# 416081M

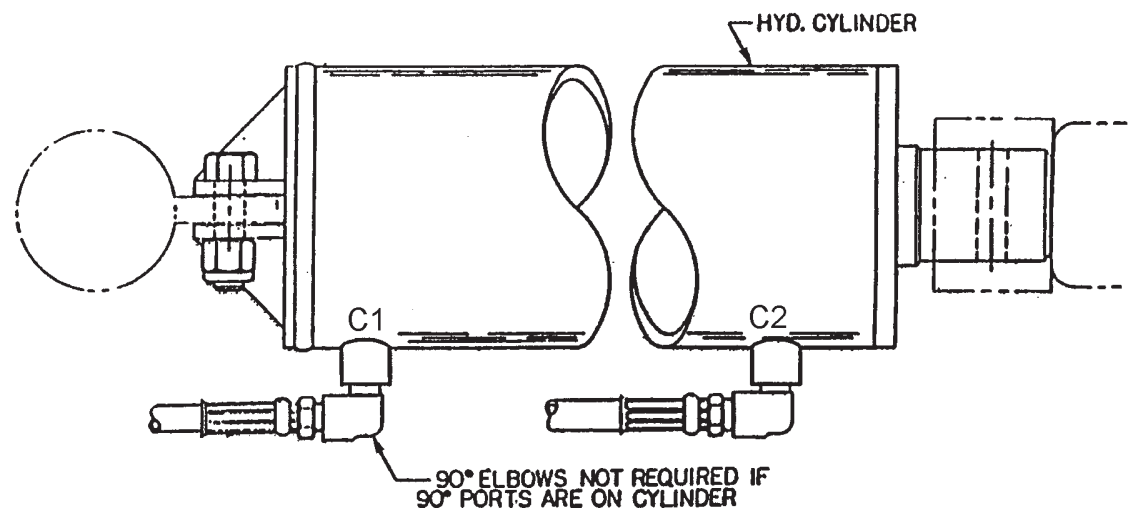


ELECTRICAL
W - WHITE WIRE
B - BLACK WIRE
G - GREEN WIRE
R - RED WIRE

HYDRAULICS
C1 - FULL END CYL
C2 - ROD END CYL



NOTE: ENERGIZING 'B' COIL SENDS FLOW TO 'C1' PORT  
 ENERGIZING 'W' COIL SENDS FLOW TO 'C2' PORT



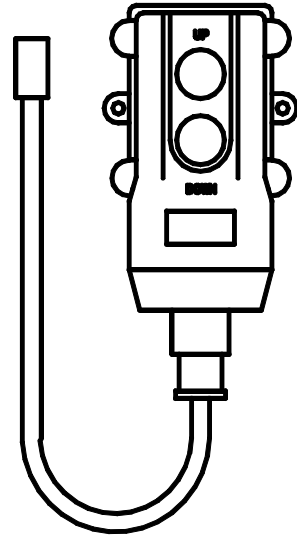
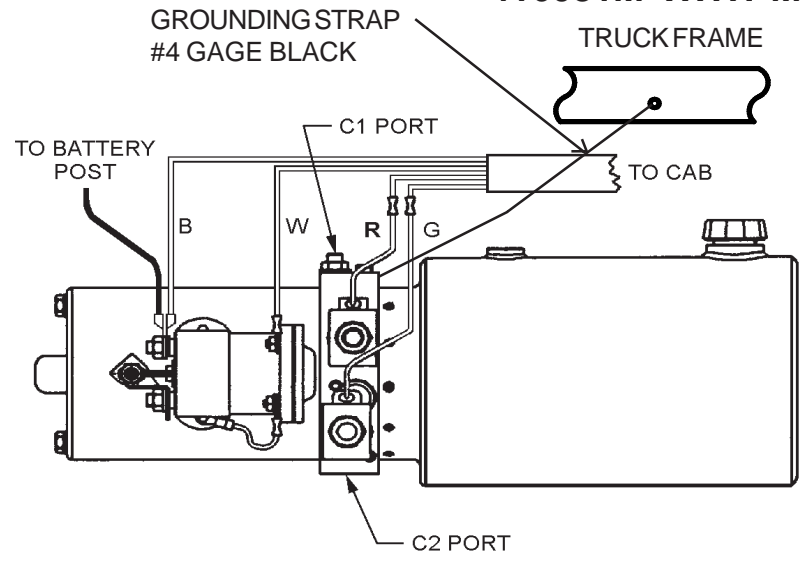
TITLE	416081 ED POWER UNIT
	VC416/516, VC520/620

DATE	12-1-04D
SUPERCEDES	2-15-99C

SECTION	-
	416306



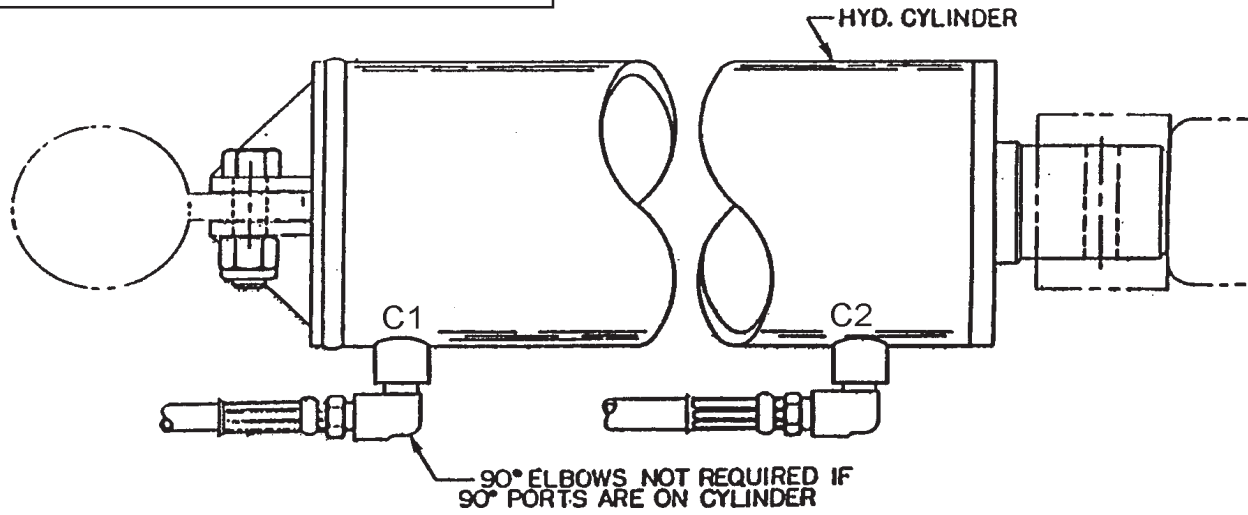
# 416081M WITH MONARCH PUSH BUTTON CONTROL



ELECTRICAL
W - WHITE WIRE
B - BLACK WIRE
G - GREEN WIRE
R - RED WIRE

HYDRAULICS
C1 - FULL END CYL
C2 - ROD END CYL

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



TITLE	416081M ED POWER UNIT
TITLE	VC416/516, VC520/620

DATE	4-20-05F
SUPERCEDES	12-1-04E

SECTION	-
SECTION	416307

# Williams<sup>®</sup> 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 port 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



MANUFACTURING, INC.

TITLE  
**WILLIAMS PTO WARNING**

DATE  
**7-13-98**

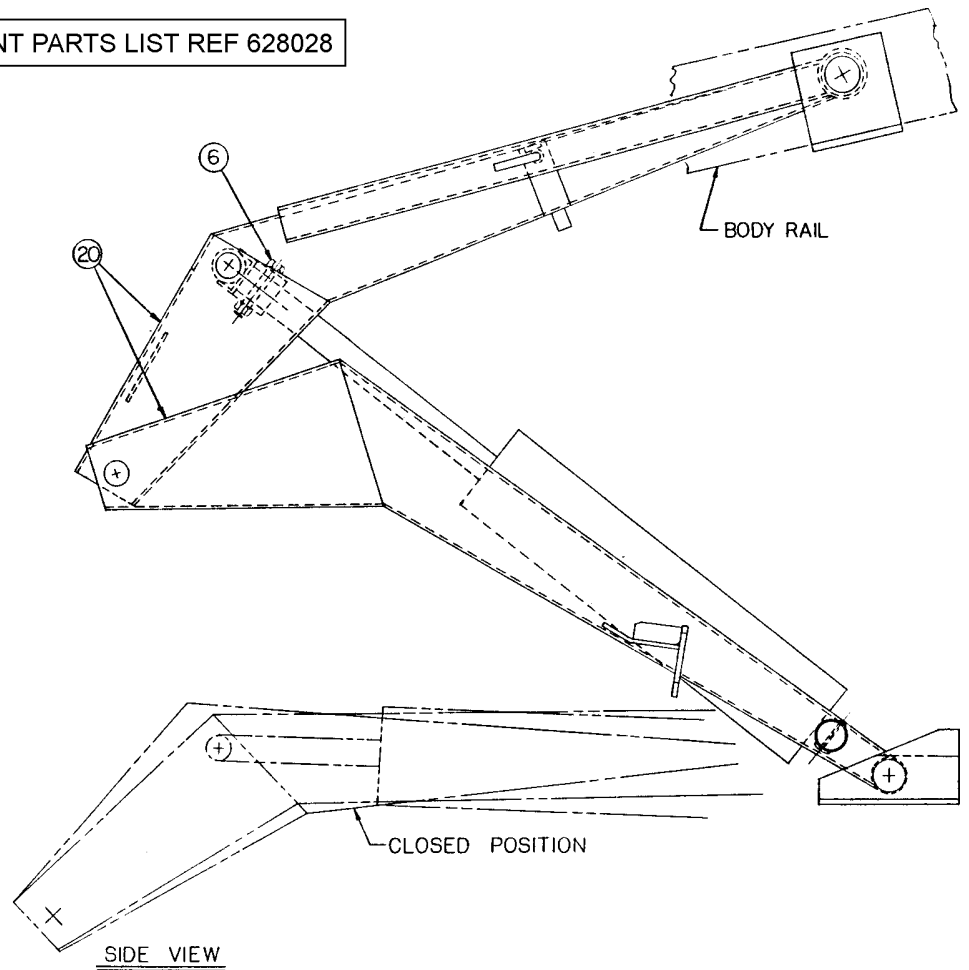
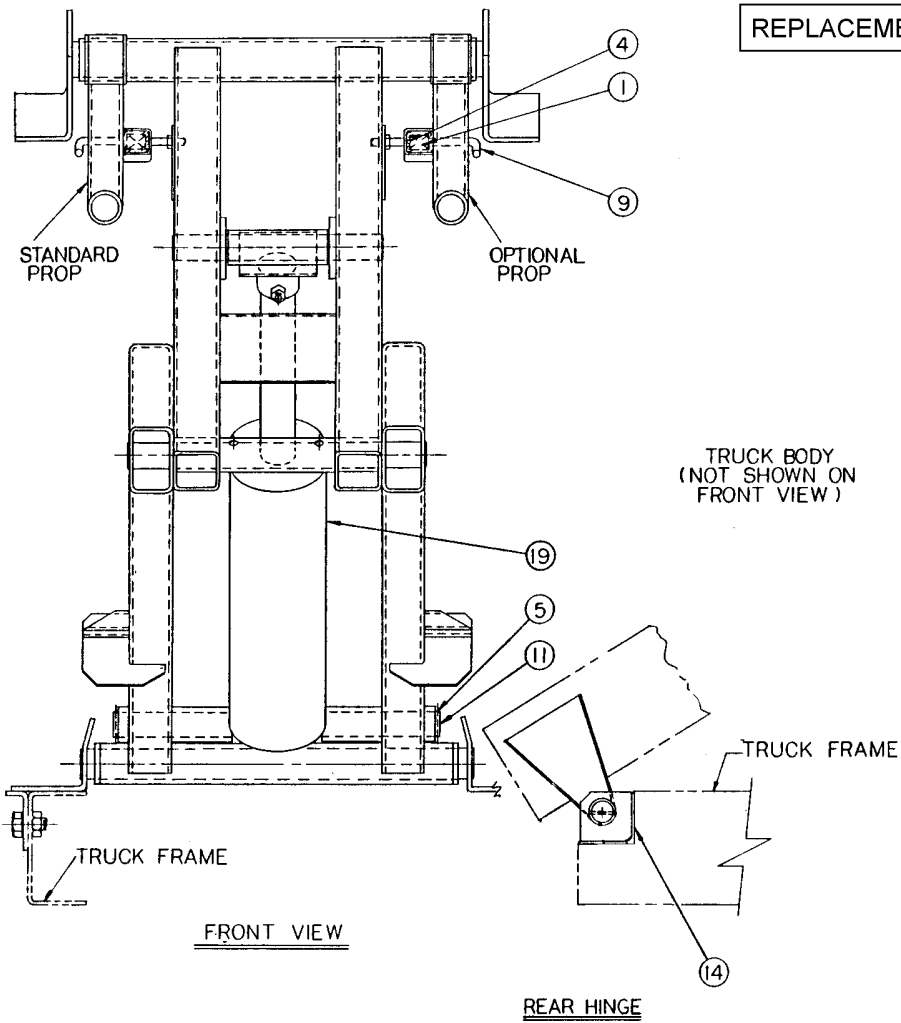
SECTION  
**H200**

-

SUPERCEDES  
-

**416287**

REPLACEMENT PARTS LIST REF 628028



TITLE  
**REPLACEMENT PARTS**

VC 628

DATE  
**8-4-00C**

SUPERCEDES  
**10-4-99B**

SECTION  
**H400**

**628017**

**VC 628 PD  
REPLACEMENT PARTS LIST**

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	00170	SPRING - 11/16" O.D. x 1-3/4" LONG
*2	2	15254	CAUTION - STAND CLEAR DECAL
*3	2	16-00012	MOUNTING BRACKET - PUMP
4	1	20-00022	ROLL PIN - 5/32" DIA x 1" LONG
5	2	416010	COTTER PIN - 1/4" DIA x 3" LONG
6	1	416545	5/8 X 3-1/2 X CLEVIS PIN ASSEMBLY ▲
7	-	-	-
*8	2	416052	CAUTION - INSTRUCTIONS DECAL
9	1	416068-2	LOCKING PIN - PROP
*10	2	416084	SAFETY PROP DECAL
11	1	520014	LOWER PIVOT SHAFT - CYLINDER
12	-	-	-
13	-	-	-
14	1	662057-1	HINGE ASSEMBLY
15	-	-	-
*16	1	520065	HYDRAULIC HOSE - 3/8" x 5'
*17	1	620006	HYDRAULIC P.T.O. PUMP
*18	1	620008	INSTALLATION INSTRUCTIONS
19	1	628039	HYDRAULIC CYLINDER
20	1	628040	SCISSORS ASSEMBLY
*21	1	628041	HYDRAULIC HOSE - 3/8" x 7'-10"
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-

\*ITEM NOT SHOWN ON DRAWING

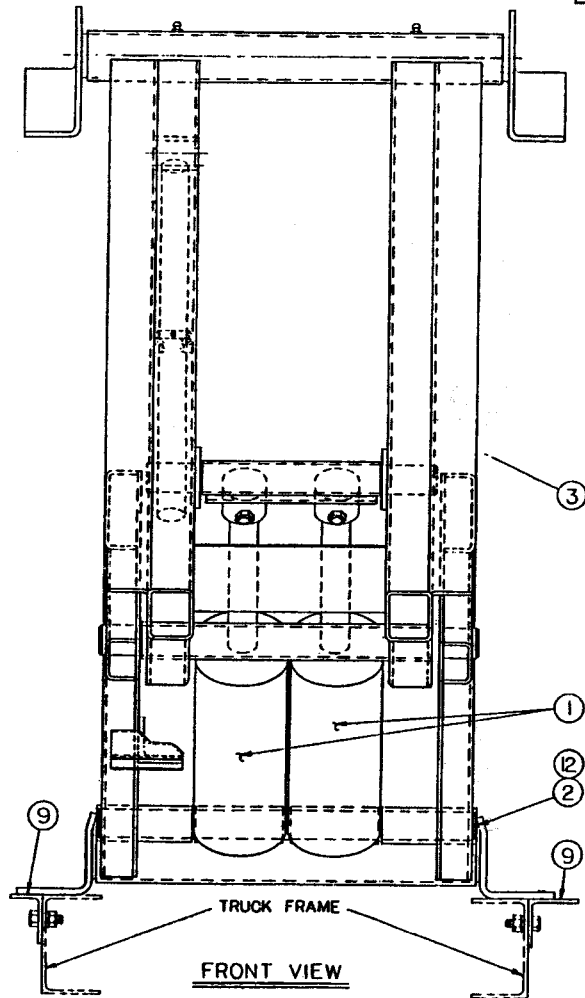
REPLACEMENT PARTS DWG REF 628017

NOTE: PIN FOR MULTI-PIECE HINGE IS 520028

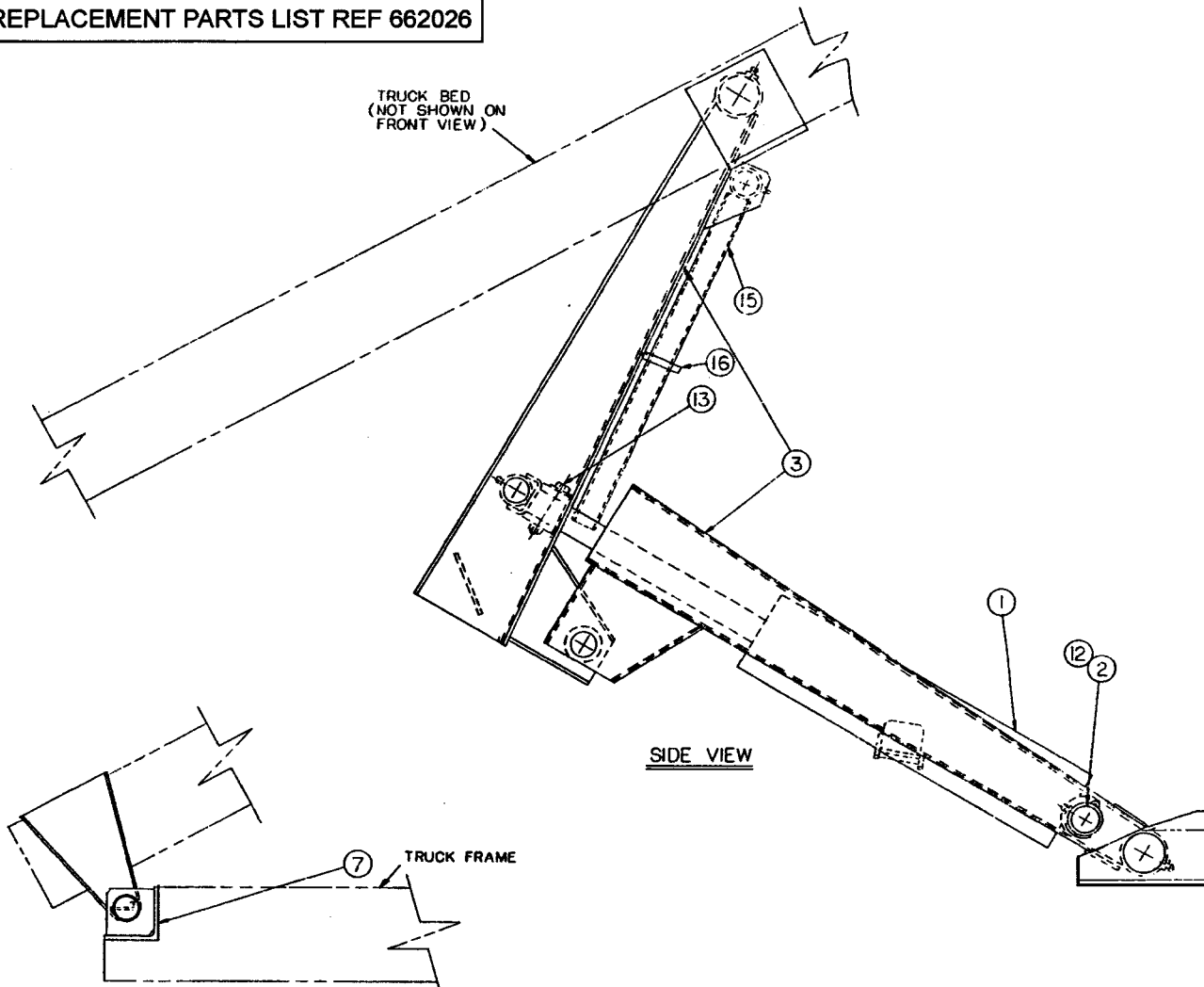


TITLE	DATE	SECTION
REPL. PARTS LIST	4-9-03D	H400
VC 628 PD	SUPERCEDES	628028
	8-4-00C	

REPLACEMENT PARTS LIST REF 662026



TRUCK BED  
(NOT SHOWN ON  
FRONT VIEW)



TITLE  
REPLACEMENT PARTS

VC 5520/6620

DATE  
8-7-00A

SUPERCEDES  
10-5-99

SECTION  
H400

662079

**VC 5520 / VC 6620  
REPLACEMENT PARTS LIST**

ITEM	QTY	VC 5520	VC 6620	DESCRIPTION
1	2	520004	620004	CYLINDER - 5" OR 6" BORE x 20" STROKE
2	1	662008	662008	LOWER CYLINDER PIVOT SHAFT
3	1	662024	662024	SCISSORS ASSEMBLY
* 4	1	620006	662025	PTO PUMP
5	-	-	-	-
6	-	-	-	-
7	1	662057-1	662057-1	REAR HINGE ASSEMBLY
8	-	-	-	-
9	2	520063	520063	MOUNTING ANGLE
* 10	2	520065	520065	HYDRAULIC HOSE - 3/8" x 5 FT.
* 11	2	520067	520067	HYDRAULIC HOSE - 3/8" x 7 FT.
12	2	416010	416010	COTTER PIN - 1/4" X 3"
13	2	▲ 416545	▲ 416545	▲ 5/8 X 3-1/2 CLEVIS PIN ASSEMBLY
14	-	-	-	-
15	1	662032	662032	BODY PROP
16	1	662046	662046	ADJUSTABLE CLIP
17		-		-
18		-		-
19		-		-
20		-		-
21		-		-
22		-		-
23		-		-
24		-		-
25		-		-
26		-		-
27		-		-
28		-		-
29		-		-
30		-		-
31		-		-
32		-		-
33		-		-
34		-		-
35		-		-

\*ITEM NOT SHOWN ON DRAWING

NOTE: SHAFT FOR MULTI-PIECE HINGE IS 662072



MANUFACTURING, INC.  
CINCINNATI, OHIO

TITLE  
**REPL. PARTS LIST**

**VC 5520 / 6620**

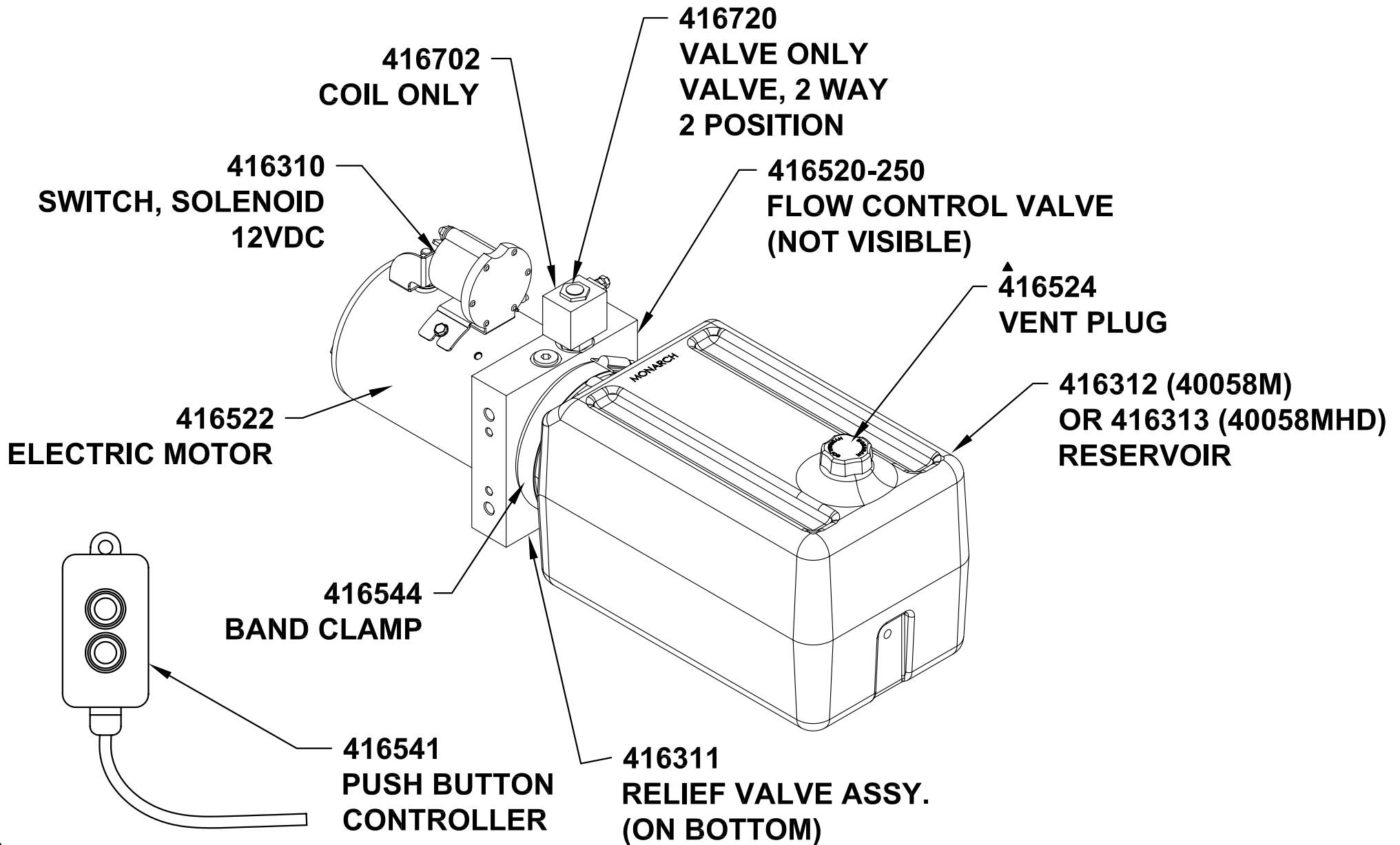
DATE  
**4-9-03E**

SUPERCEDES  
**3-14-03D**

SECTION  
**H400**

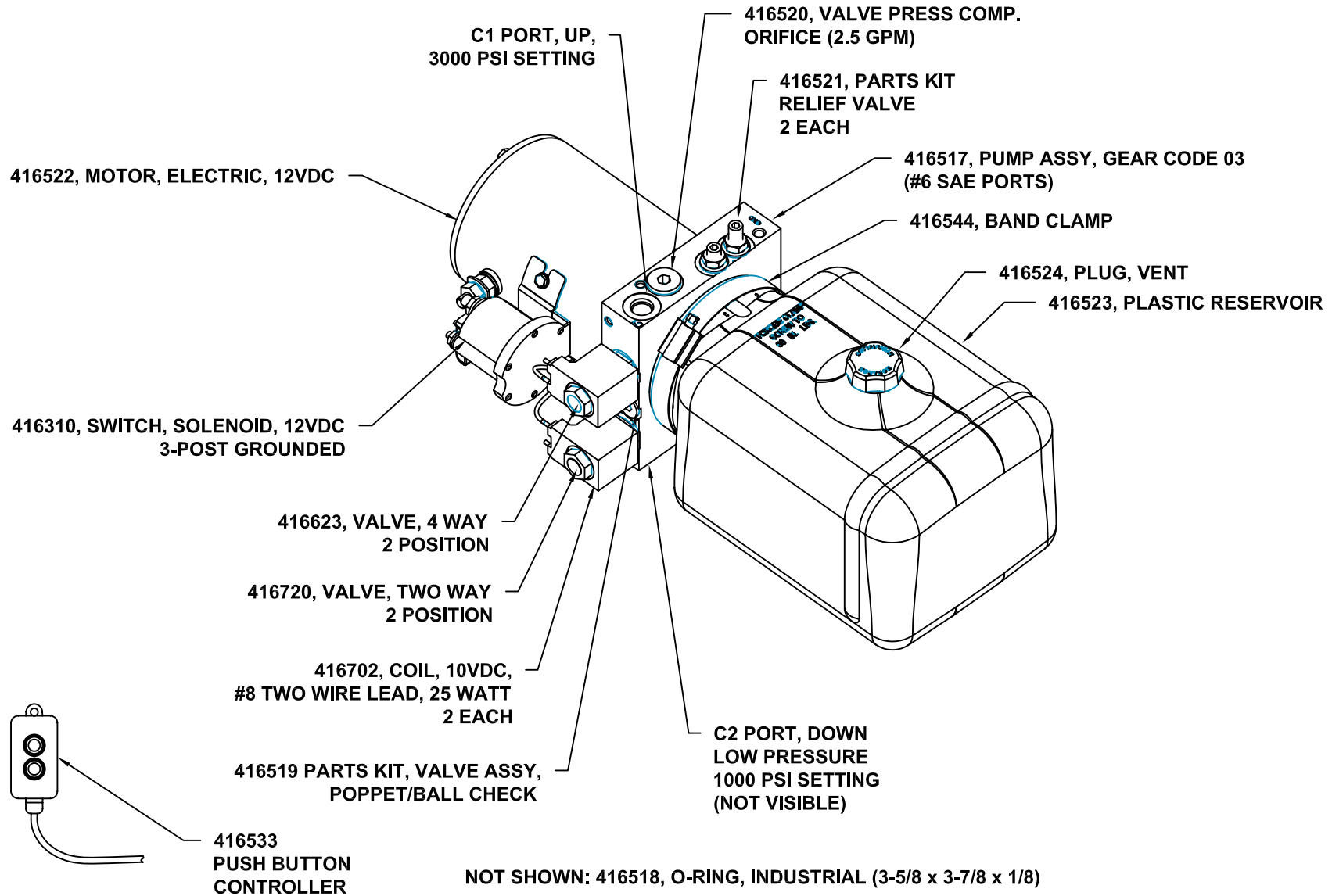
**662026**

# REPLACEMENT PARTS 40058M & 40058MHD



TITLE	DATE	SECTION
PARTS LIST & DRAWING	12-18-06D	-
40058M & 40058MHD POWER UNITS	SUPERSEDES 12-11-06C	<b>416308</b>

# REPLACEMENT PARTS 416081M



MANUFACTURING, INC.

TITLE

REPLACEMENT PARTS DRAWING

416081M POWER UNIT

DATE

12-11-06E

SUPERSEDES

7-27-05D

SECTION

-

416508

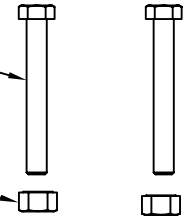


# 620125 CABLE & CONSOLE KIT - CURVED HANDLE

## 620124 CABLE & CONSOLE KIT - STRAIGHT HANDLE

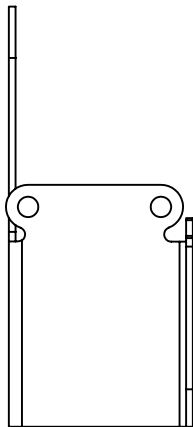
!HHCS03118250  
HHCS 5/16-18 X 2-1/2" LG

!LNUT-03118  
NYLON LOCK NUT 5/16-18



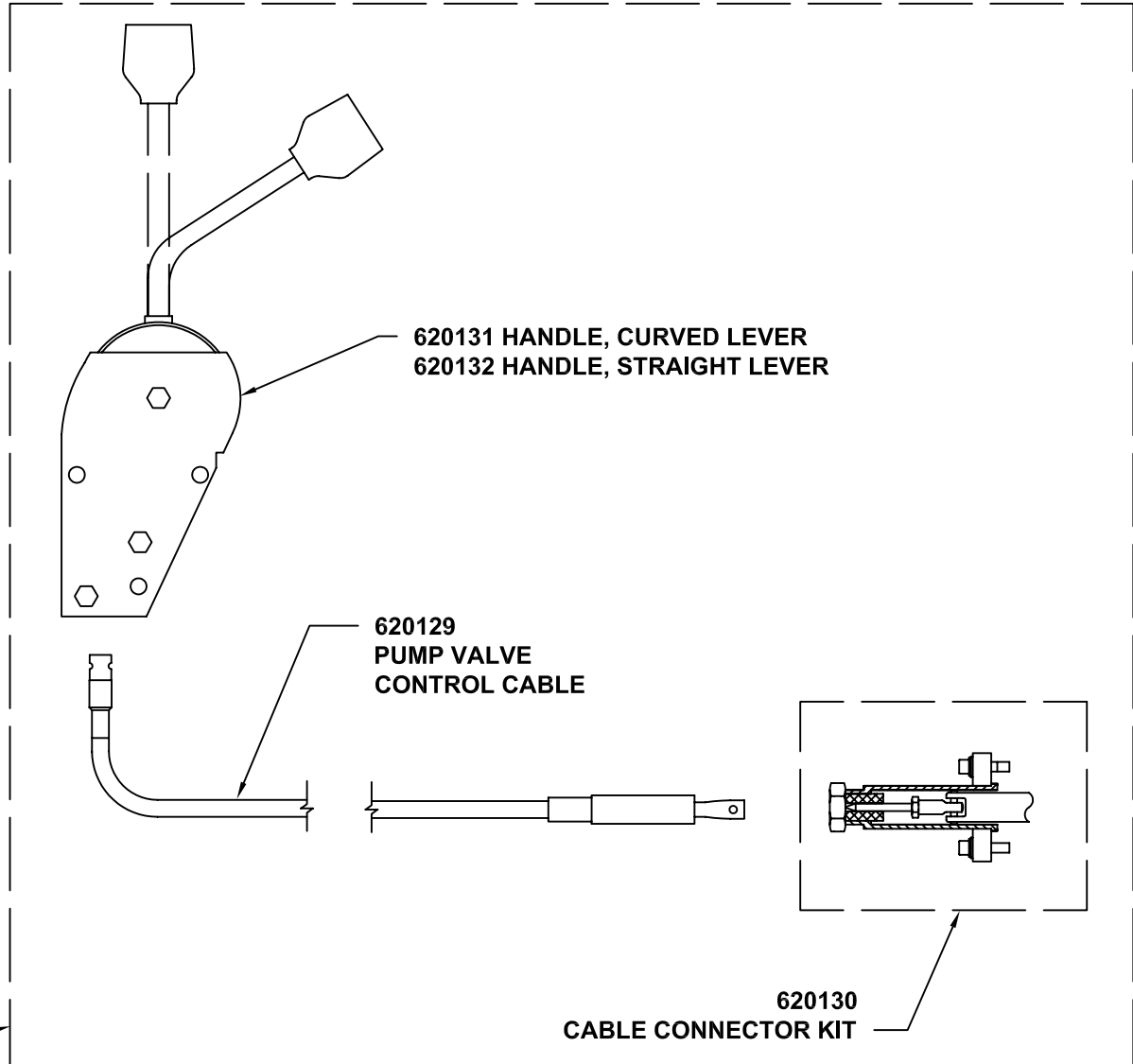
**CAUTION**  
 DO NOT OPERATE  
 EQUIPMENT  
 WITH THIS  
 PART IN PLACE  
 MUST BE  
 OPERATED  
 POWER UP  
 AND POWER  
 DOWN  
 WHEN NOT IN  
 OPERATION  
 LEAVE  
 CONTROL IN  
 LOCK  
 POSITION.

620128  
DECAL - DIRECT  
MOUNT PUMP



416751  
PTO CONTROLLER BRACKET

620126 CURVED HANDLE CABLE ASSEMBLY  
620127 STRAIGHT HANDLE CABLE ASSEMBLY



MANUFACTURING, INC.

TITLE

REPLACEMENT PARTS & DRAWING

PTO PUMP CABLE

DATE

9-16-04

SUPERSEDES

-

SECTION

-

620245



## HOISTS

### **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. This warranty covers:

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

We shall not be liable for any contingent liabilities arising out of the improper function of any products. Warranty shall become void if the product is improperly installed, modified, damaged, abused or used for application other than intended use.

### **WARRANTY CLAIMS**

Venco Manufacturing, Inc. will make a good faith effort for prompt correction or other adjustment with respect to any product, which proves to be defective after our inspection and within the warranty period. Before any repairs are attempted or before returning any product, your 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 insure the installation is completed according to the manufacturer's recommendations, insure 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 products without the expressed written consent of the manufacturer. Reinstallation 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 again be instructed as to the safe operation at time of delivery. Maintenance, service, operation and safety warning decals are available on request from Venco Manufacturing, Inc.

**VENCO MANUFACTURING, INC**  
DIVISION OF COLLINS ASSOCIATES, INC  
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513.772.8448  
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