



VENCO®

HOISTS

VC620

LINKAGE BODY PROP

INSTALLATION & OWNER'S MANUAL

Sold and Serviced by:

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VC 620 W/ LINKAGE BODY PROP MANUAL

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MANUFACTURING, INC.

TITLE

TABLE OF CONTENTS

DATE

10-7-10

SECTION

-

VC 620 W/ LINK. PROP

SUPERCEDES

-

620620

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:
 - ▲ VC520 NON SUBFRAME - 520601
 - ▲ VC520 W/ SUBFRAME - 520602
 - ▲ VC620 NON SUBFRAME - 620103
 - ▲ VC620 W/ SUBFRAME - 620104
 - ▲ VC628 - 628020
 - ▲ VC5520 - 552010
 - ▲ VC6620 - 662052
 - ▲ VC6628 - 662851
4. USE PUMP WHICH MEETS VENCO SPECIFICATION
SEE PAGE: 416763.
▲



MANUFACTURING, INC.

TITLE

CAUTION NOTE

-

DATE

1-22-08A

SUPERCEDES

10-1-01

SECTION

-

416733

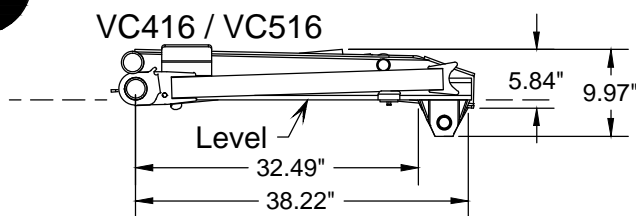
!! IMPORTANT WARNING !!

* ALL VENCO CONVERSION HOISTS → VC416 THRU VC6628 *

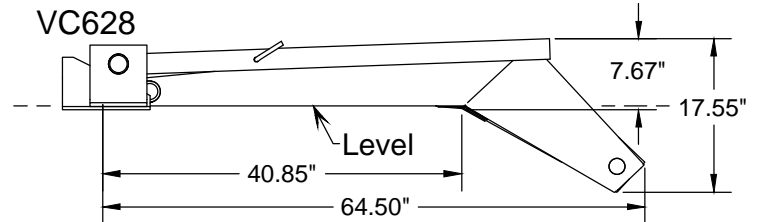
1

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

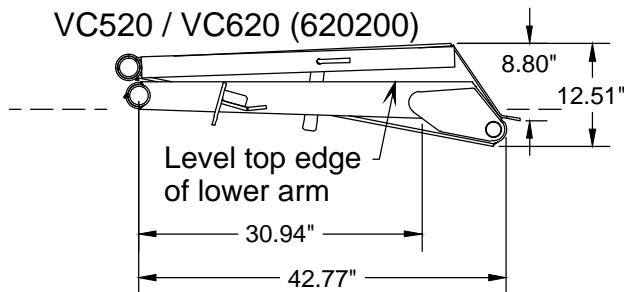
VC416 / VC516



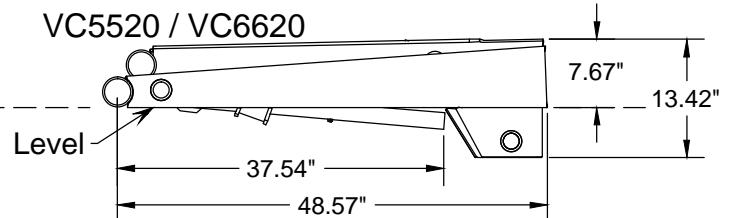
VC628



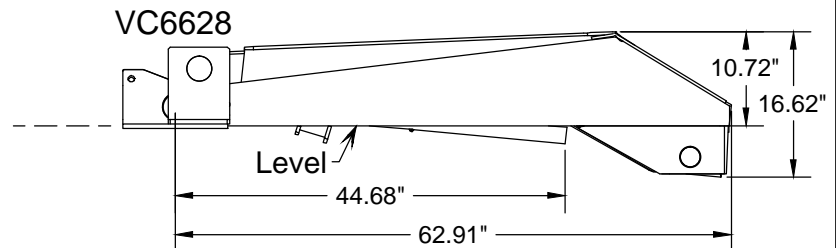
VC520 / VC620 (620200)



VC5520 / VC6620



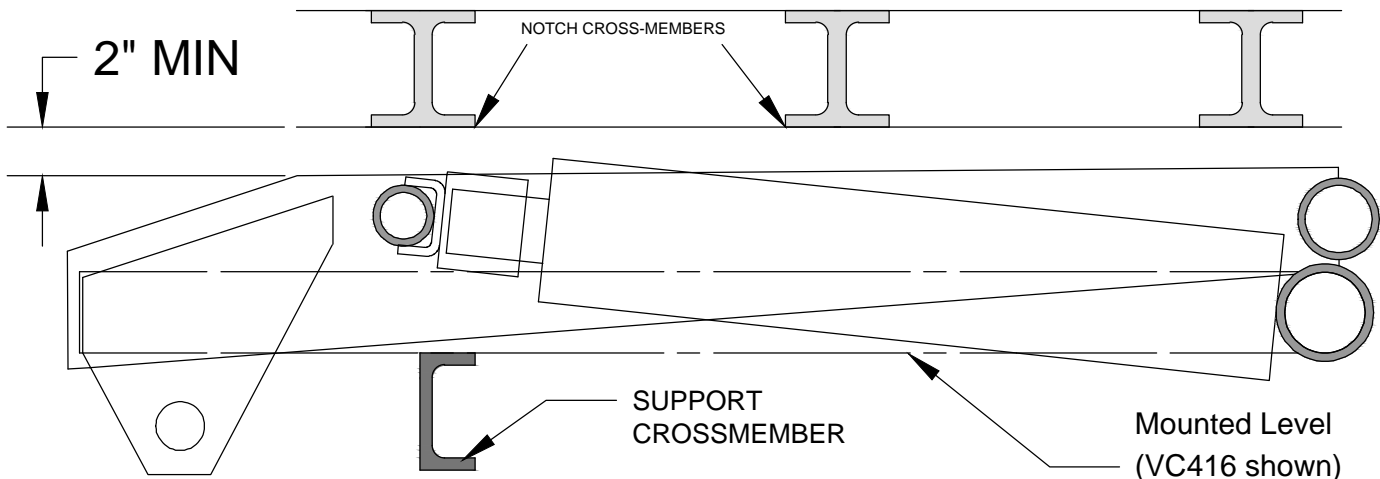
VC6628



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

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

WARNING
WHEN LIFTING HOIST LIFT
P.T.A. - 340" CLUTCH RELEASE
- 1000 LBS.

AFFIX TO TRUCK
DASHBOARD

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

CAUTION
1. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
2. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
3. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
4. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
5. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
6. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
7. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
8. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
9. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
10. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.

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

▲ DANGER

STAND CLEAR
WHILE OPERATING

VENCO 15254

VENCO #416624
1 REQ'D FOR
EACH SAFETY PROP

▼ DANGER

FAILURE TO OPERATE SAFELY CAN RESULT IN PERSONAL INJURY OR DEATH.
VEHICLE MUST BE ON LEVEL GROUND. NEVER OPERATE THE HOIST ON A SLOPE OF 10% OR GREATER.
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 ENGAGE AND POSITIONED.
 2. TURN BODY PROP HANDLE UNTIL HANDLE MAKES CONTACT WITH MECHANICAL STOP.
 3. LOWER BODY PROP UNTIL THE BODY PROP CONTACTS THE BODY PROP HANDLE.
- TO DISCHARGE**
1. RAISE BODY TO SUFFICIENT HEIGHT TO DISCHARGE BODY PROP.
 2. TURN BODY PROP HANDLE TO LOWER AND STOW BODY PROP.
 3. LOWER BODY TO CHASSIS RAILS.



TITLE
DECAL LOCATION
416/516/520 HOIST - w/ LINKAGE BODY PROP

DATE
7-28-08
SUPERSEDES

SECTION
C100
416850

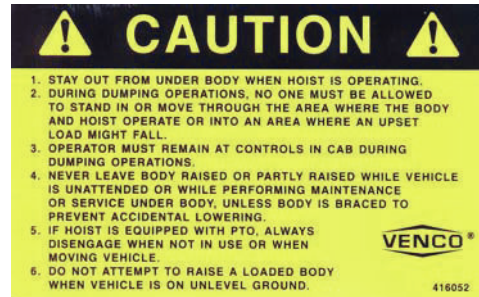
PART NO.: 416052

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

APPLICATION: 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.: 416624

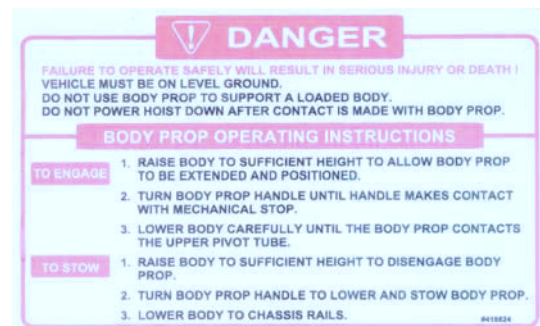
APPLICATION: VC416,516 & 520 MODELS ONLY

DECAL: SAFETY PROP OPERATION 'LINKAGE' PROP 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).



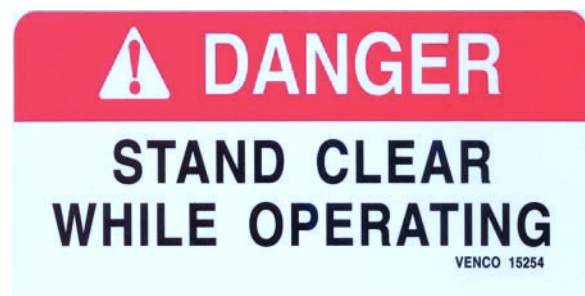
PART NO.: 15254

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.



TITLE
DECAL LIST

VC416-520, Linkage Prop

DATE
11-13-08A

SUPERSEDES
7-29-08

SECTION

-
628823

VENCO HOIST MODEL VC 620 (NON-SUBFRAME)

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 GUIDELINE ONLY.

DUMP CLASS: 40

CONVERSION CLASS: D

WEIGHT: 595 LBS

POWER SOURCE: PD - POWER TAKE OFF DOUBLE ACTING

ES - ELECTRIC SINGLE ACTING

ED - ELECTRIC DOUBLE ACTING

ADDITIONAL DATA:

SINGLE CYLINDER (6" BORE x 20" STROKE)

CA: 84" - 138"

DUMP ANGLE: 40°-50°

MOUNTING HEIGHT REQ'D: 8"

CONVERSION APPLICATIONS VC 620 WITHOUT SUBFRAME					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50°(TON)
13'	84"	42"	24.0	21.4	19.4
13'	102"	24"	16.0	14.3	12.9
13'	108"	18"	14.4	12.9	11.6
13'	114"	12"	13.1	11.7	10.6
13'	120"	6"	12.0	10.7	9.7
14'	102"	36"	18.0	16.1	14.5
14'	108"	30"	16.0	14.3	12.9
14'	114"	24"	14.4	12.9	11.6
14'	120"	18"	13.1	11.7	10.6
14'	124"	14"	12.4	11.0	10.0
14'	126"	12"	12.0	10.7	9.7
15'	102"	48"	20.6	18.4	16.6
15'	108"	42"	18.0	16.1	14.5
15'	114"	36"	16.0	14.3	12.9
15'	120"	30"	14.4	12.9	11.6
15'	124"	26"	13.5	12.0	10.9
15'	126"	24"	13.1	11.7	10.6
15'	138"	12"	11.1	9.9	8.9
16'	114"	48"	18.0	16.1	14.5
16'	120"	42"	16.0	14.3	12.9
16'	124"	38"	14.9	13.3	12.0
16'	126"	36"	14.4	12.9	11.6
16'	138"	25"	12.0	10.7	9.7
16'	144"	18"	11.1	9.9	8.9

DUMP APPLICATIONS VC 520 WITHOUT SUBFRAME					
BODY	CA	REAR O.H.	40° (TON)	45° (TON)	50° (TON)
8'	-	12"	24.0	21.4	19.4
9'	-	12"	20.6	18.4	16.6
10'	-	12"	18.0	16.1	14.5
12'	-	12"	14.4	12.9	11.6



MANUFACTURING, INC.

TITLE

CAPACITY CHART

VC 620 HOIST

DATE

3-24-05A

SUPERSEDES

6-12-03

SECTION

H100

620103

VENCO HOIST MODEL VC 620 WITH SUBFRAME

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 GUIDELINE ONLY.

DUMP CLASS: 40
CONVERSION CLASS: D
WEIGHT: 825 LBS
POWER SOURCE: PD - POWER TAKE OFF DOUBLE ACTING
ES - ELECTRIC SINGLE ACTING
ED - ELECTRIC DOUBLE ACTING
ADDITIONAL DATA;
SINGLE CYLINDER (6" BORE x 20" STROKE)
CA: 84" - 138"
DUMP ANGLE: 40°-50°
HEIGHT ABOVE SUBFRAME : 6-7/8" ▲

CONVERSION APPLICATIONS VC 620 WITH SUBFRAME					
BODY	CA	REAR O.H.	45° (TON)	47° (TON)	50°(TON)
13'	84"	42"	21.8	20.9	19.7
13'	102"	24"	14.5	13.9	13.1
13'	108"	18"	13.1	12.5	11.8
13'	114"	12"	11.9	11.4	10.7
13'	120"	6"	10.9	10.4	9.9
14'	102"	36"	16.3	15.7	14.8
14'	108"	30"	14.5	13.9	13.1
14'	114"	24"	13.1	12.5	11.8
14'	120"	18"	11.9	11.4	10.7
14'	124"	14"	11.2	10.7	10.1
14'	126"	12"	10.9	10.4	9.85
15'	102"	48"	18.7	17.9	16.9
15'	108"	42"	16.3	15.7	14.8
15'	114"	36"	14.5	13.9	13.1
15'	120"	30"	13.1	12.5	11.8
15'	124"	26"	12.2	11.7	11.1
15'	126"	24"	11.9	11.4	10.7
15'	138"	12"	10.0	9.6	9.1
16'	114"	48"	16.3	15.7	14.8
16'	120"	42"	14.5	13.9	13.1
16'	124"	38"	13.5	13.0	12.2
16'	126"	36"	13.1	12.5	11.8
16'	138"	25"	10.9	10.4	9.9
16'	144"	18"	10.0	9.6	9.1

DUMP APPLICATIONS VC 520 WITHOUT SUBFRAME					
BODY	CA	REAR O.H.	45° (TON)	47° (TON)	50° (TON)
8'	-	12"	21.8	20.9	19.7
9'	-	12"	18.7	17.9	16.9
10'	-	12"	16.3	15.7	14.8
12'	-	12"	13.1	12.5	11.8



MANUFACTURING, INC.

TITLE
CAPACITY CHART

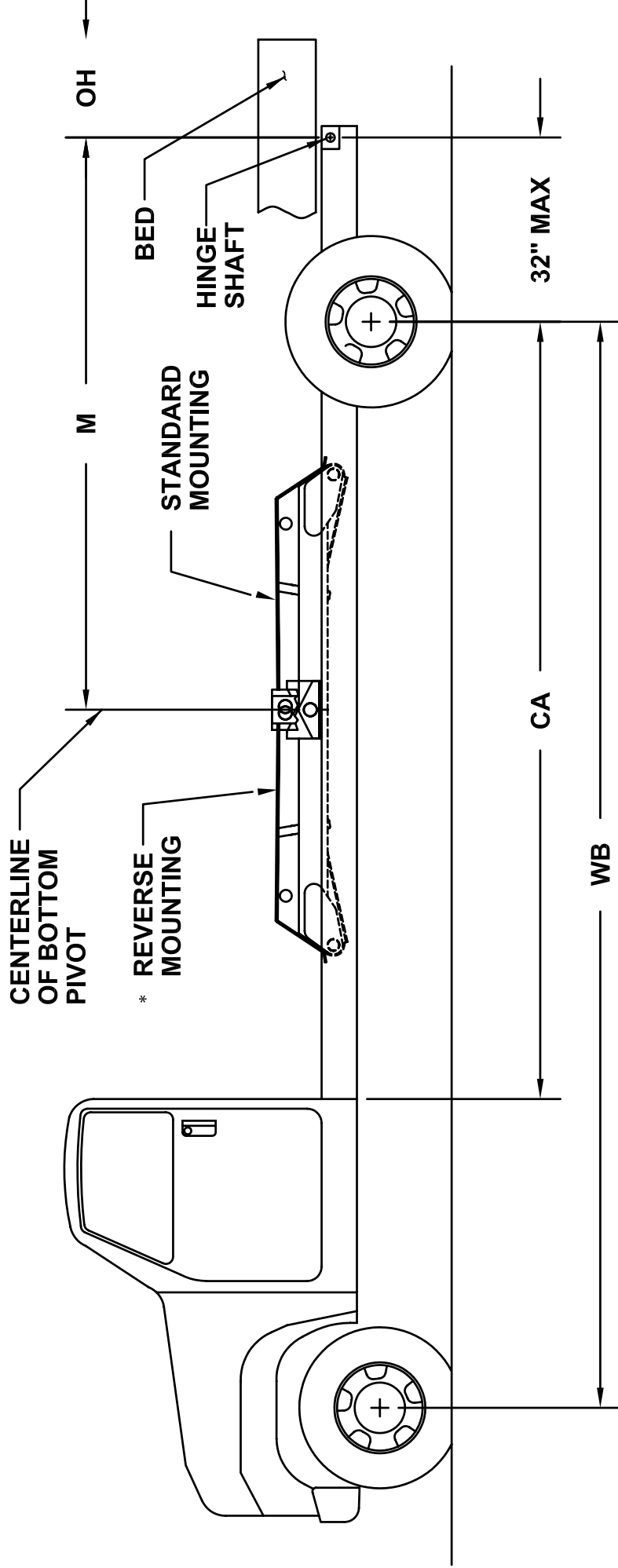
VC 620 HOIST

DATE
3-24-05B

SUPERSEDES
9-19-03A

SECTION
H100

620104



VC 620 HOISTS (NON SUBFRAME)

STANDARD / REVERSE MOUNTING

DUMP ANGLE	M
40°	102"
45°	91"
50°	83"

FIGURE 1.A

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.

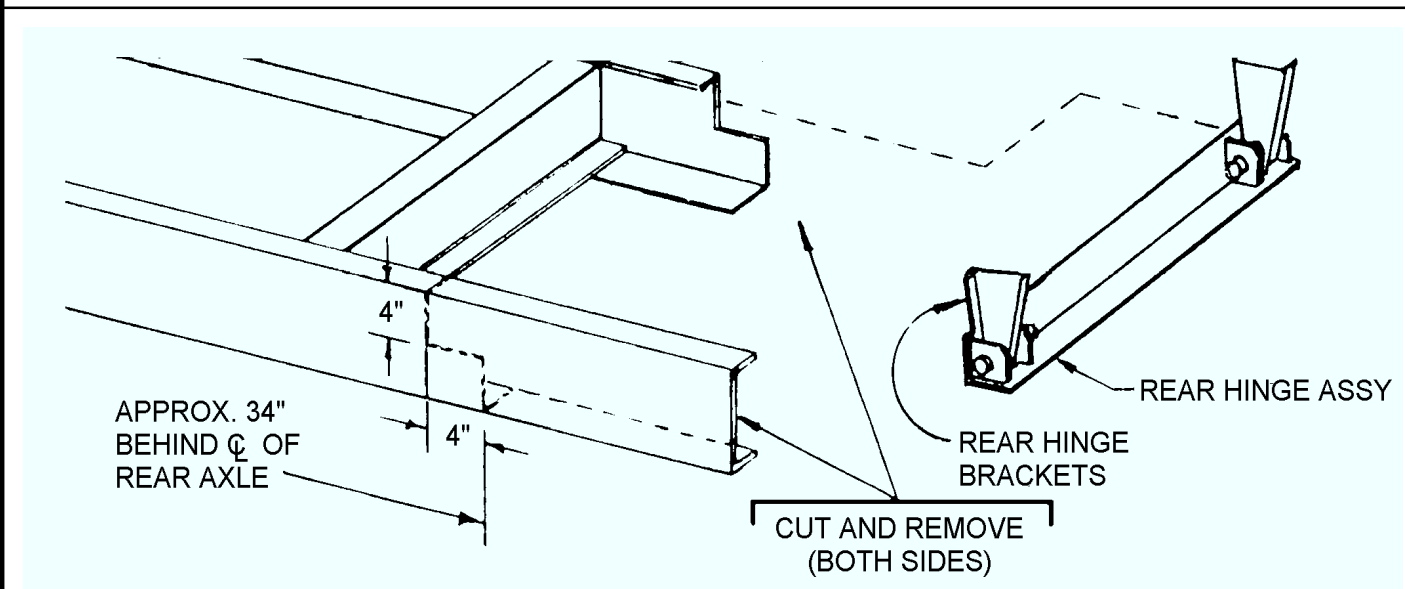


Figure 2 - Frame Modification and Rear Hinge Attachment

- 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

HOIST MOUNTING INSTRUCTIONS VC 520 NON-SUBFRAME ONLY

- . After the hoist is positioned, place the mounting angles (Figure 3) under the lower pivot angles and against the truck frame. Clamp securely in place. Drill through the frame and install the mounting angle with two (2) 1½" x 1-1½" hex head cap screws, lock washers, and hex nuts, and four flatwashers (both sides).

NOT □: 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 lower pivot angles.

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

- F. Weld each end of the lower pivot angle to its mounting angle as shown in Figure 3. Note the welding symbols. Do not weld to the truck frame.

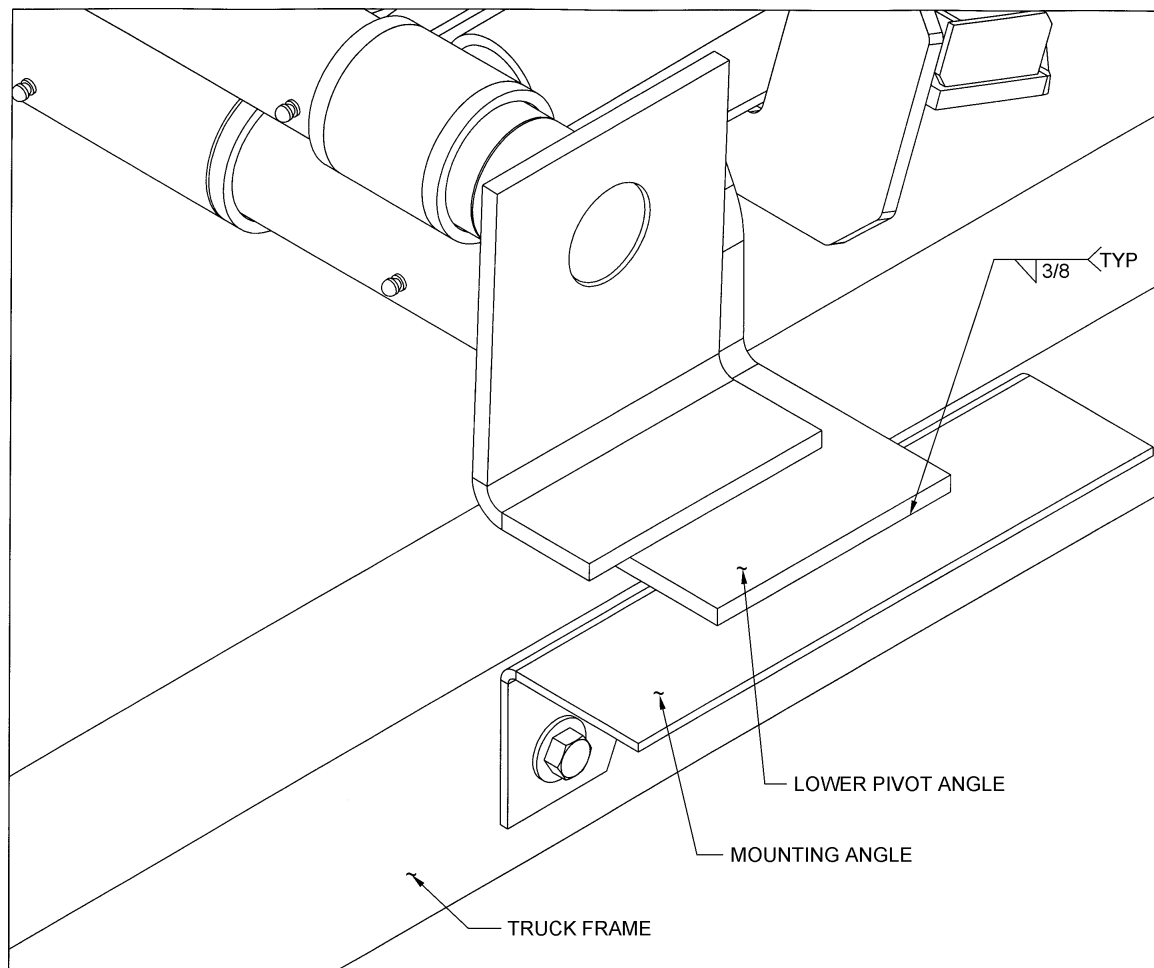


Figure 3 - Mounting Angle Assembly



MANUFACTURING, INC.

TITLE

MOUNTING INSTR.

DATE

11-16-98

SECTION

H200

VC 520 NON-SUBFRAME

SUPERCEDES

-

520605

HOIST MOUNTING INSTRUCTIONS (VC 520 / 620 WITH SUBFRAME ONLY)

Refer to drawing 520602 for VC 520 and 620104 for VC 620 (on the preceding pages).

- A. Position the hoist into the front half of the subframe by inserting the two lower pivot angles into the lower pivot tube on the scissors and then positioning that assembly inside the front half of the subframe. The two holes on each lower pivot angle should match up with a set of holes on the subframe mounting brace. The front set of holes on the subframe corresponds to a dump angle of 45 degrees, the middle to 47 degrees, and the rear to 50 degrees. See Dwg. 520607 for subframe features.

NOTE: If any dump angle other than 50 degrees is desired, an additional crossmember will be required to support the rear knuckle of the scissors.

- B. Fasten the lower pivot angles to the subframe using two (2) 1/2" x 1-1/2" hexhead cap screws, lockwashers, and nuts, and four (4) flatwashers (both sides). See Dwg. 520608 Figure 4a.

- C. Position the hoist with the subframe front section onto the truck frame.

NOTE: The front crossmember of the front section has only been tack welded into place. This was done to provide you with the flexibility to move the front crossmember and power unit, if desired. When the crossmember is where you want it, fully weld it into place.

- D. Place the rear section of the subframe onto the truck frame.

NOTE: A distance of less than 38" should be maintained between the center of the rear hinge and the center of the rear axle. If this distance exceeds 38", additional reinforcement of the truck frame may be necessary.

- E. Trim off any truck frame that extends beyond the rear hinge.

- F. Fasten the rear half of the subframe to the truck by welding the two frame tie down brackets onto the subframe, drilling corresponding holes through the truck frame, and using two (2) 1/2" x 1-1/2" hexhead cap screws, lockwashers, and nuts, and four (4) flatwashers (both sides). The tie down brackets should be located as close as possible to the rear hinge to insure stability.

- G. Fasten the two halves of the subframe together by welding the tabs extending from the rear half into the front half.

- H. After the two halves are welded together, place the mounting angles under the lower pivot angles and against the truck frame. Clamp them securely in place. Drill through the frame and install the mounting angle with two (2) 1/2" x 1-1/2" hex head cap screws, lock washers, and hex nuts, and four (4) flatwashers (both sides). See Figure 5.

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

- I. Weld each end of the lower pivot angle to its mounting angle as shown in Dwg. 520608 Figure 4b. Note the welding symbols. Do not weld to the truck frame.



MANUFACTURING, INC.

TITLE

MOUNTING INSTR.

DATE

6-18-03B

SECTION

H200

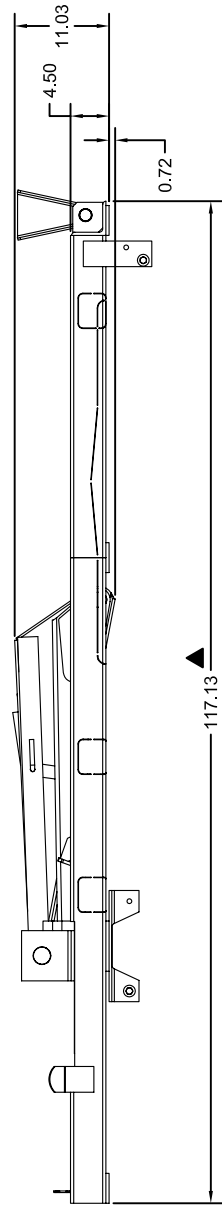
VC 520 / 620 (SUBFRAME)

SUPERCEDES

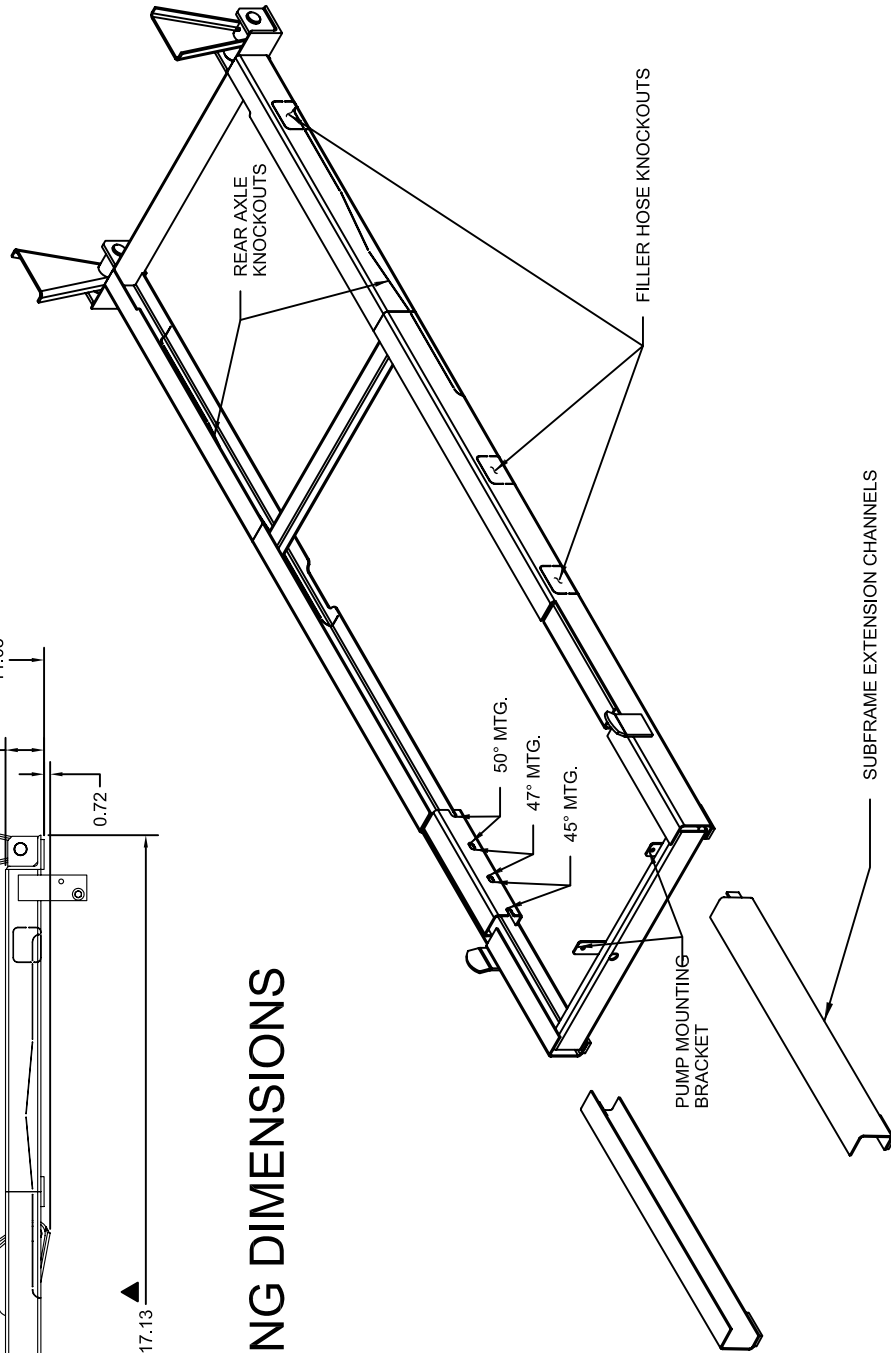
3-30-99A

520606

520 & 620 SUBFRAME FEATURES (520501)



MOUNTING DIMENSIONS



	TITLE		SUBFRAME FEATURES		SECTION
	VC 520 / 620		DATE	1-11-05C	H200
			SUPERSEDES	8-26-03B	520607

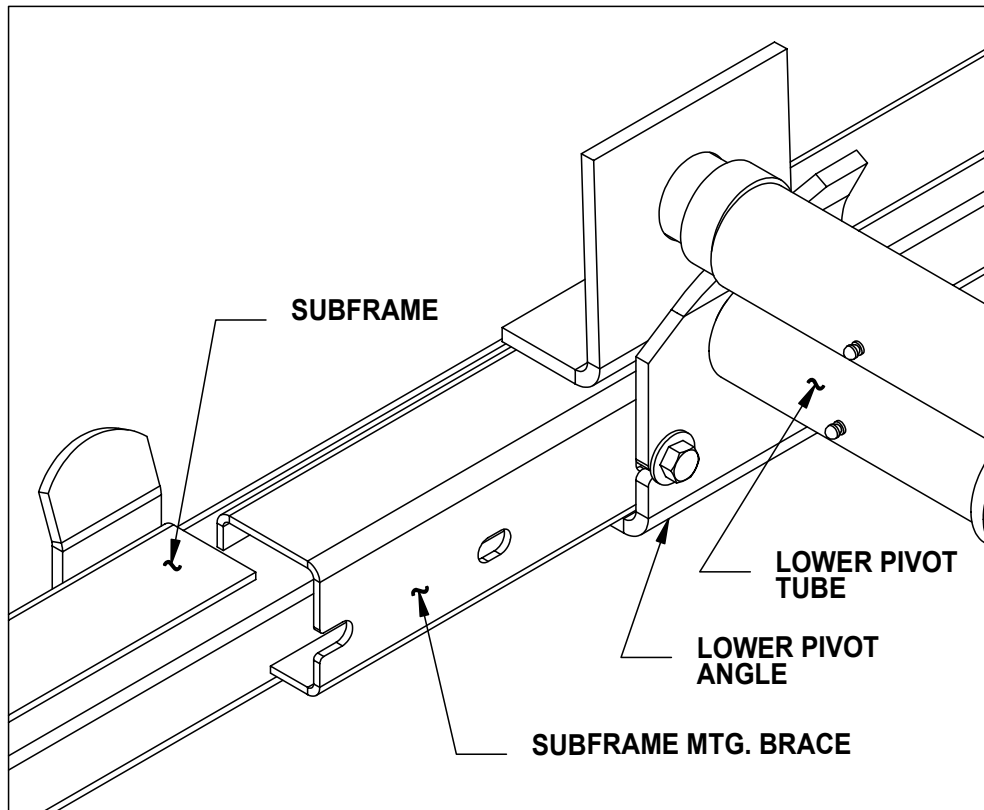


FIGURE 4a

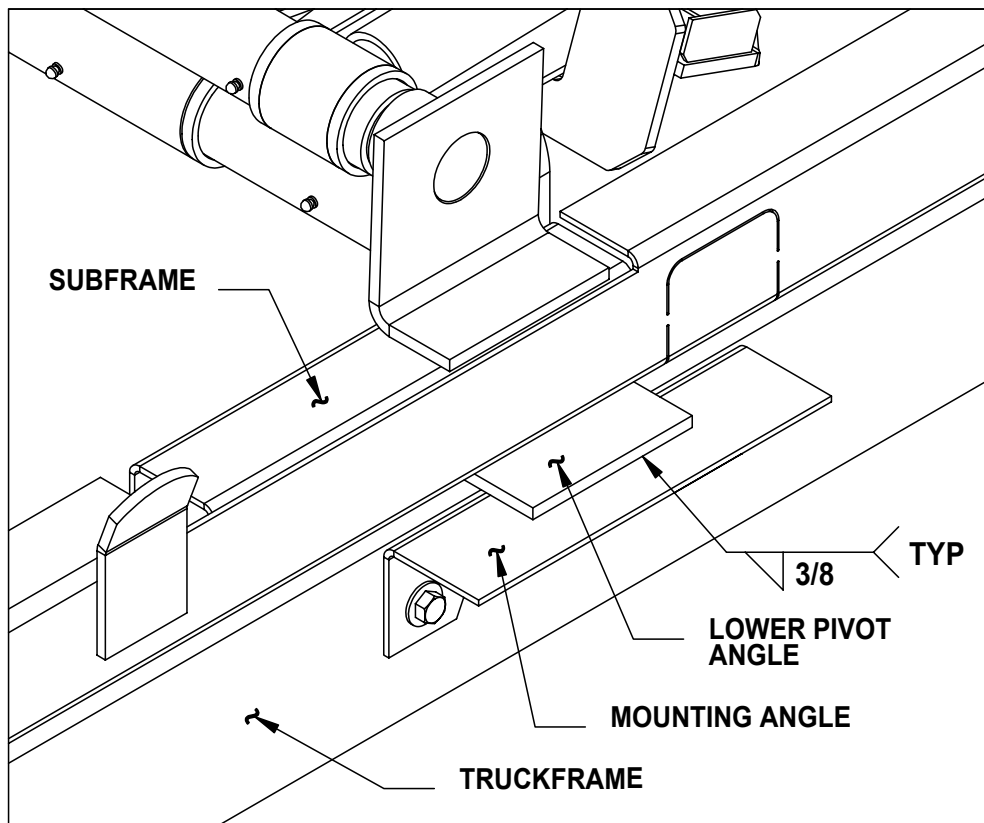


FIGURE 4b



MANUFACTURING, INC.

TITLE
MOUNTING INSTR.

VC 520 / VC 620▲

DATE
6-12-03A

SUPERSEDES
11-17-98

SECTION
H200

520608

HOIST MOUNTING INSTRUCTIONS ☒ C ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

☐. 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.

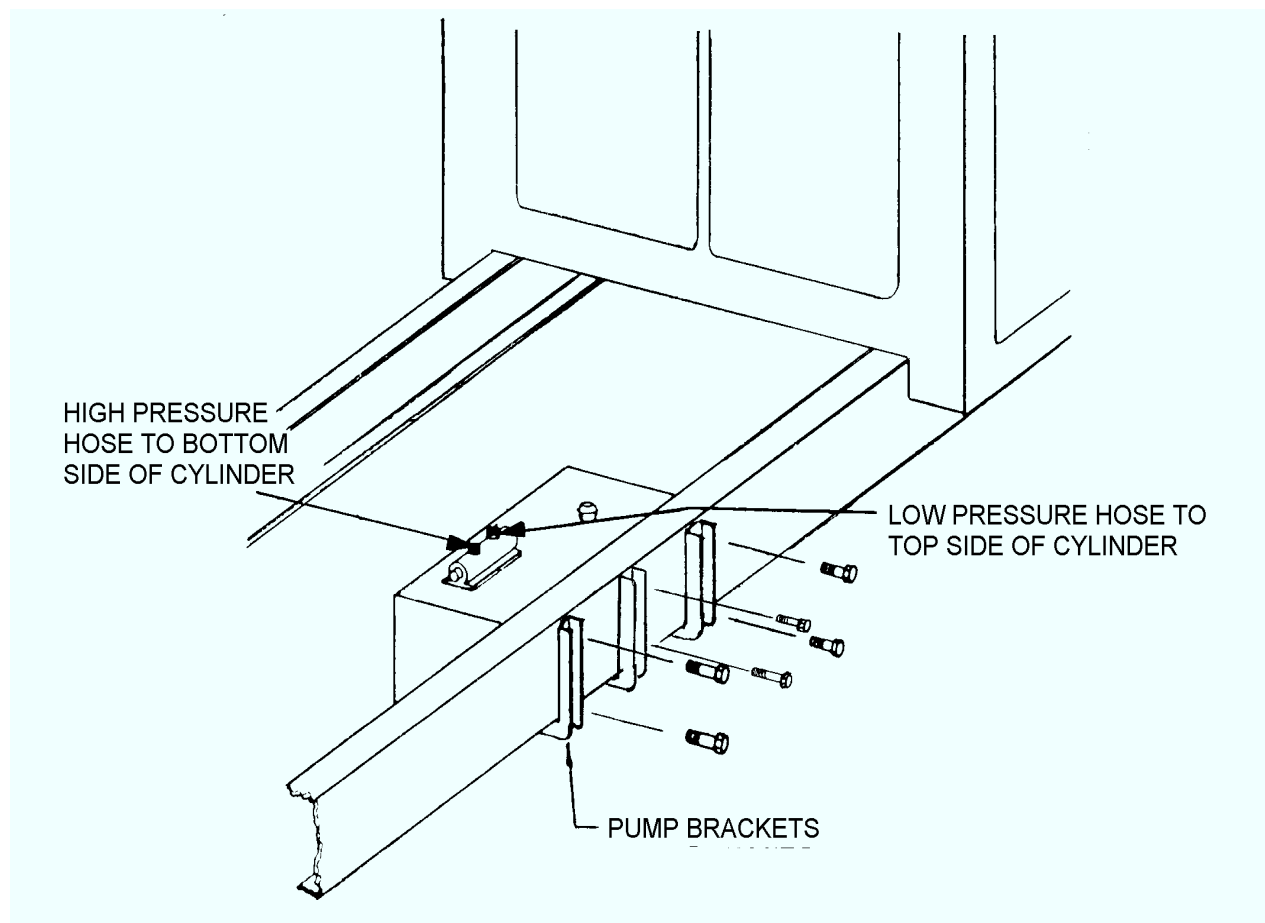


Figure 5 - Pump Installation



TITLE	MOUNTING INSTR.
	VC 520 - VC 6628

DATE	9-4-97A
------	---------

SECTION	H200
---------	------

SUPERCEDES	<input type="checkbox"/> -15-90
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520075

HOIST MOUNTING INSTRUCTIONS **C** ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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.

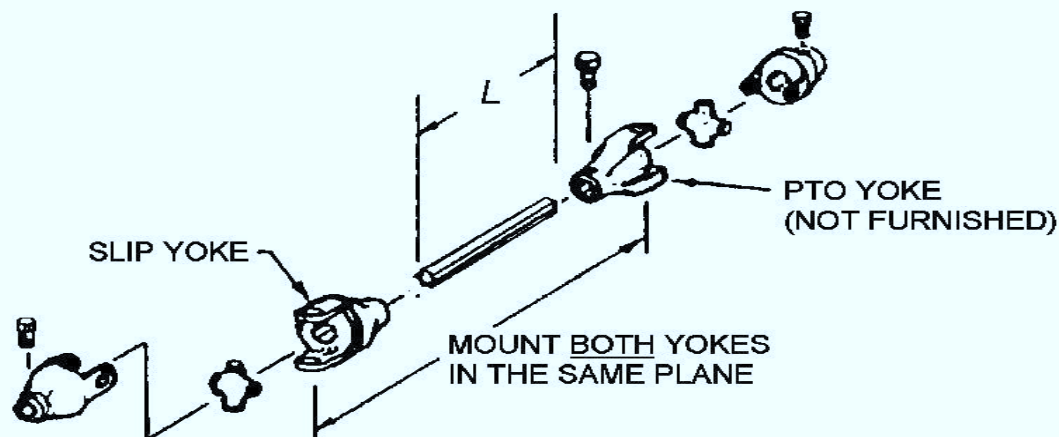


Figure 6 - Drive Shaft Assembly

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).



MANUFACTURING, INC.

TITLE
MOUNTING INSTR.

VC 520 - VC 6628

DATE
5-20-99D

SUPERCEDES
11-17-98C

SECTION
H200

520076

ATTACHING 620129 CABLE TO 620131 / 2 HANDLE

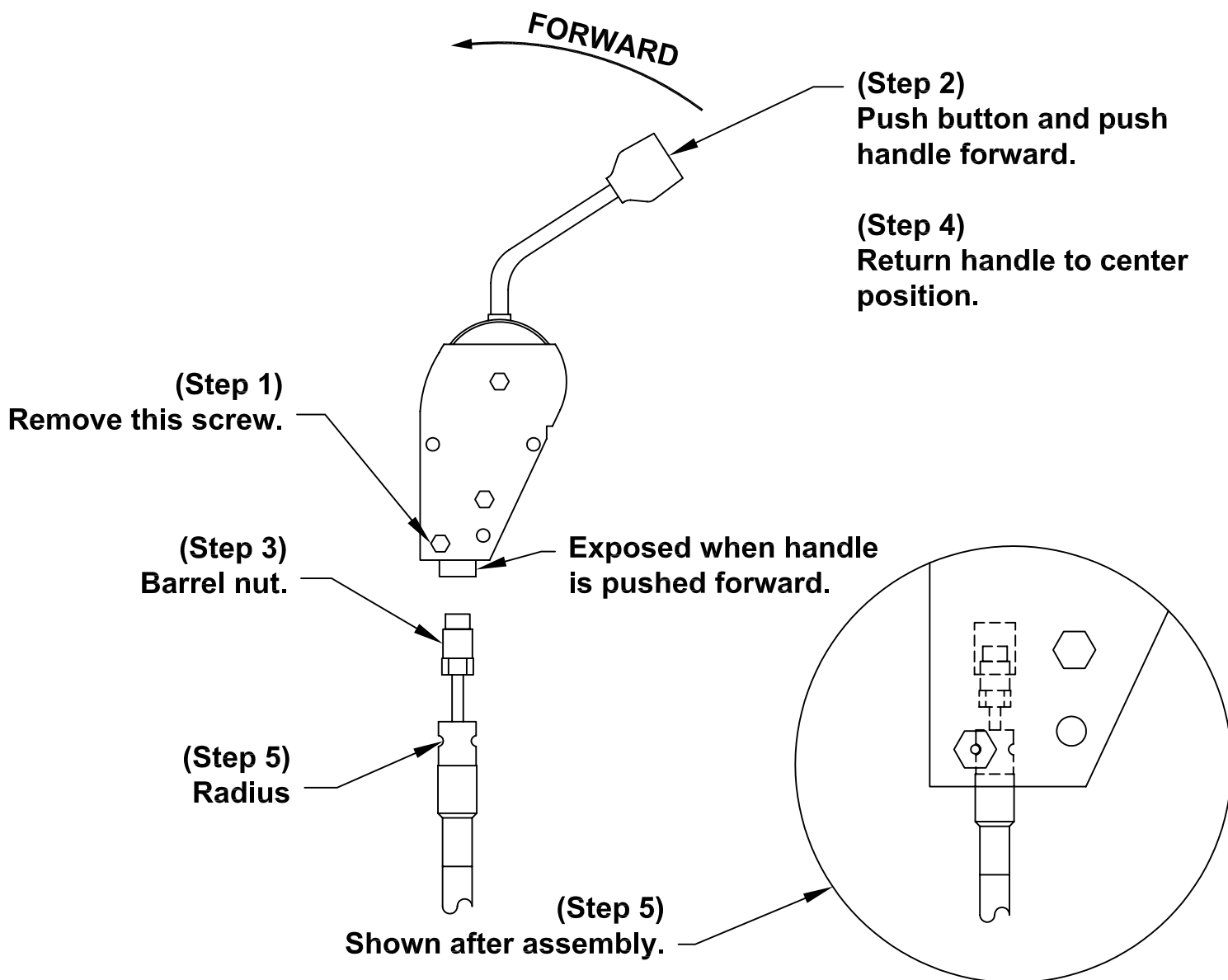
Step 1. Remove lowest screw & nut.

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.



MANUFACTURING, INC.

TITLE

CABLE / HANDLE ASSEMBLY

DATE

9-17-04

SECTION

-

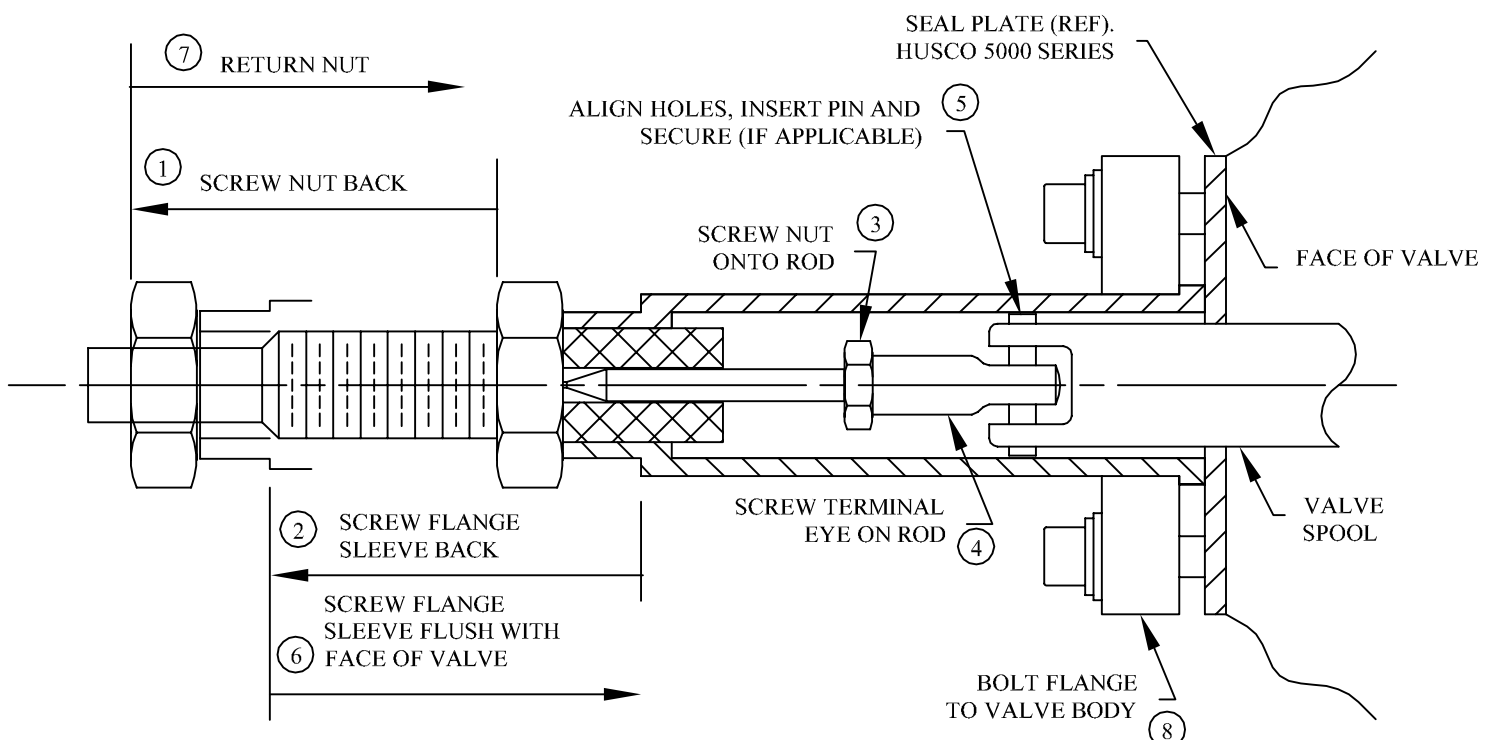
PTO PUMP CABLE

SUPERSEDES

-

620246

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.



MANUFACTURING, INC.

TITLE

PTO PUMP CABLE INSTALL

VC416 - 6628

DATE

5-11-04

SUPERSEDES

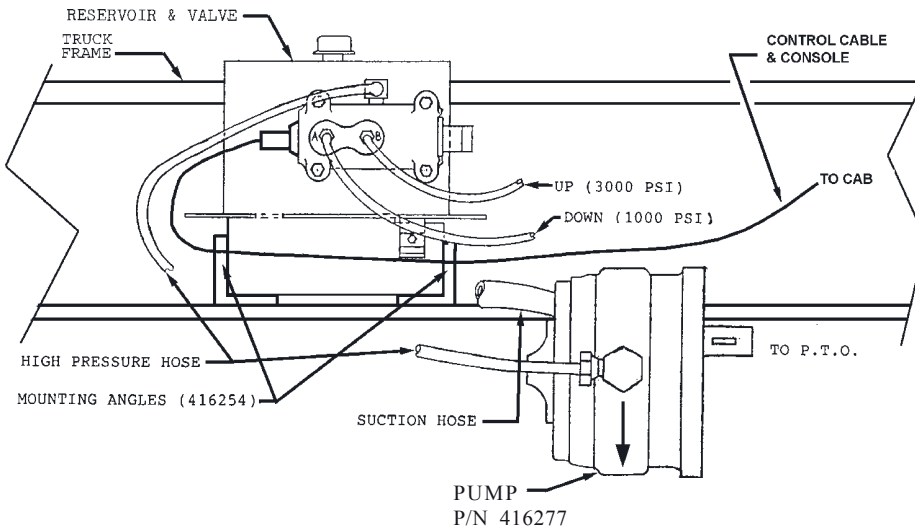
-

SECTION

-

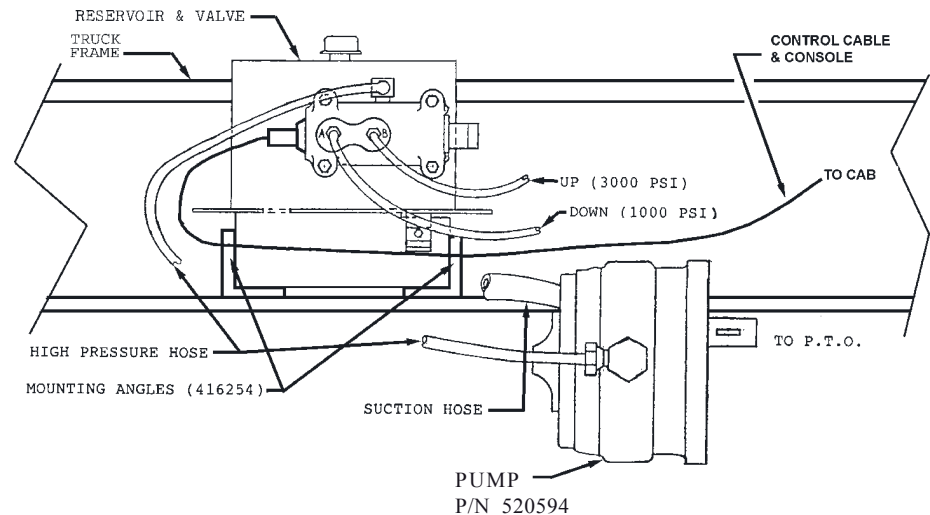
416755

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	416151		520619			(2) 520619		
Down Hose	416152				628043	(2) 416152		(2) 628043
High Pressure Hose	416152							
Suction Hose	416079				520088F			
Pump□Valve□Tank	620011 (9 □UART)				662077 (21 □UART)			
Pump (Only)	416277				520594			
Mounting□Spline Information	SA□ "A" 2 BOLT MOUNTIN□ FLAN□□, 5□8"-9 SPLIN□ SHAFT, CCW ROTATION				SA□ "B" 2 BOLT MOUNTIN□ FLAN□□□, 7□8"-13 SPLIN□ SHAFT			



MANUFACTURING, INC.

TITLE
SPLIT PUMP

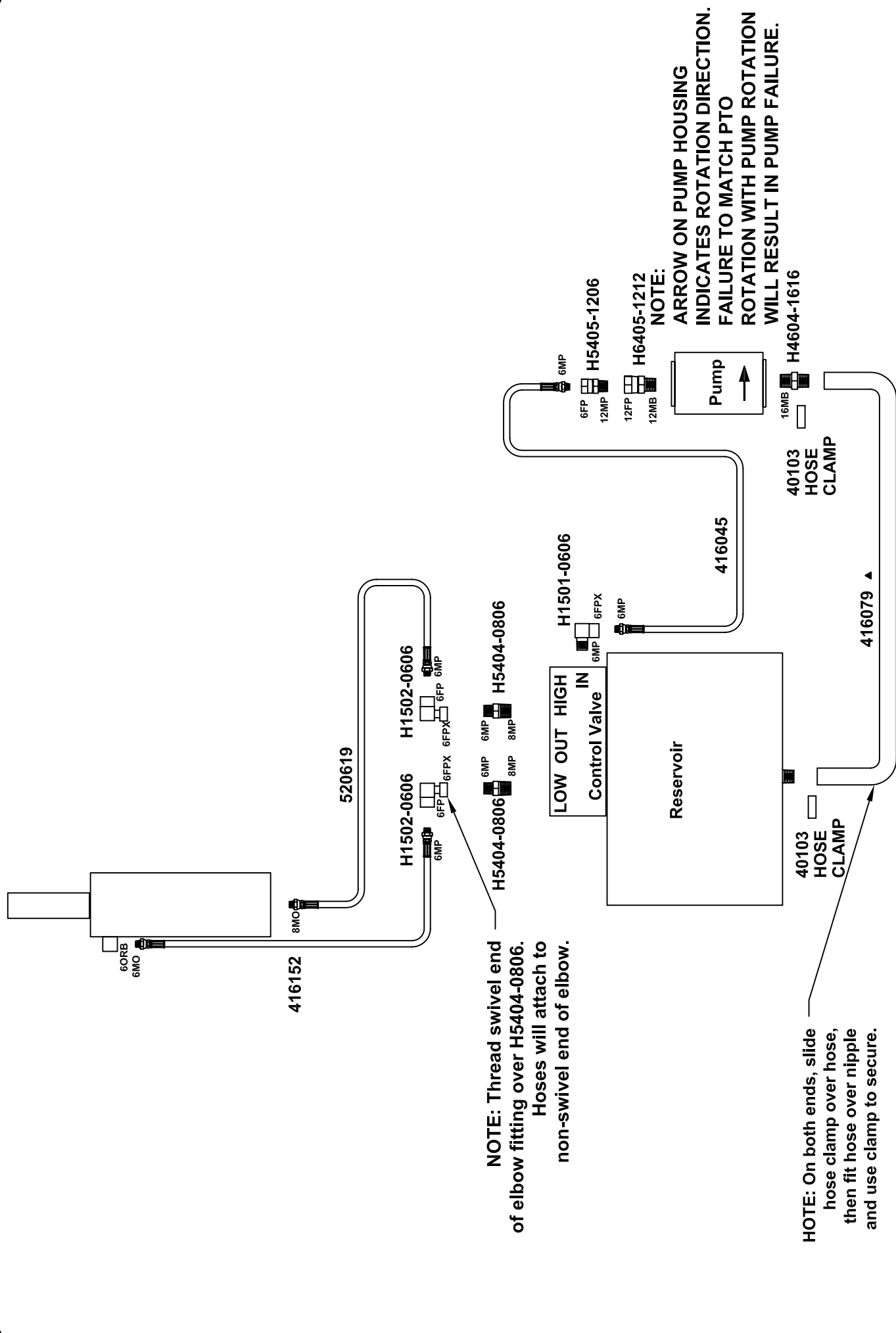
VC 416 □ 516, VC 520 - 6628

DATE
5-22-06

SUPERCEDES

SECTION
H200

41676 □



 VENCO[®] MANUFACTURING, INC.	TITLE	SPDG HOSE CONNECTION DIAGRAM	
	DATE	7-16-08A	SECTION
VC520, VC620		SUPERSEDES	5-22-06
			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 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

☐ ILLIAMS PTO ☐ ARNING

-

DATE

7-1-98

SUPERCEDES

-

SECTION

H200

416287

HOIST MOUNTING INSTRUCTIONS (Continued)

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

The VC 620 (non-subframe) requires a minimum of 11" clearance above the truck frame.

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

Example:

Assuming that a 11" clearance is required and 6" long beams are on the truck body, a liner of at least 5" net will be required to obtain the minimum clearance required to mount the hoist.

$6" + 5" = 11"$ min.

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

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

- K. Place the rear hinge brackets in the vertical position (Dwg. 520072 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. See installation drawing 662861 for more information regarding the mounting of the rear hinge brackets to the body.
- L. **Refer to Drawing 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 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.



MANUFACTURING, INC.

TITLE

MOUNTING INSTR.

VC 620

DATE

6-12-03

SUPERCEDES

-

SECTION

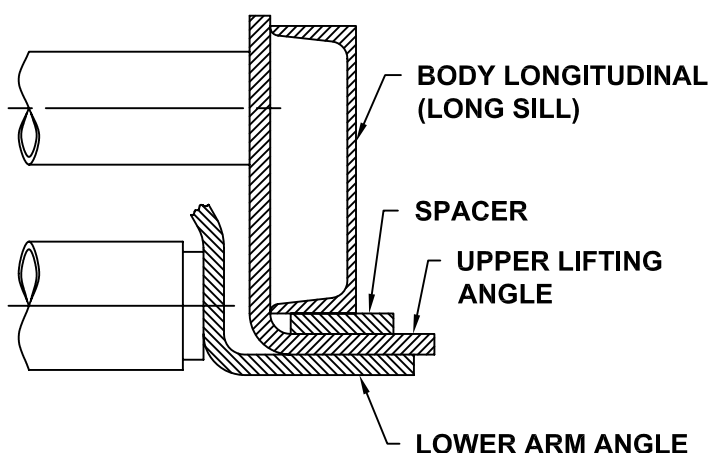
H200

620114

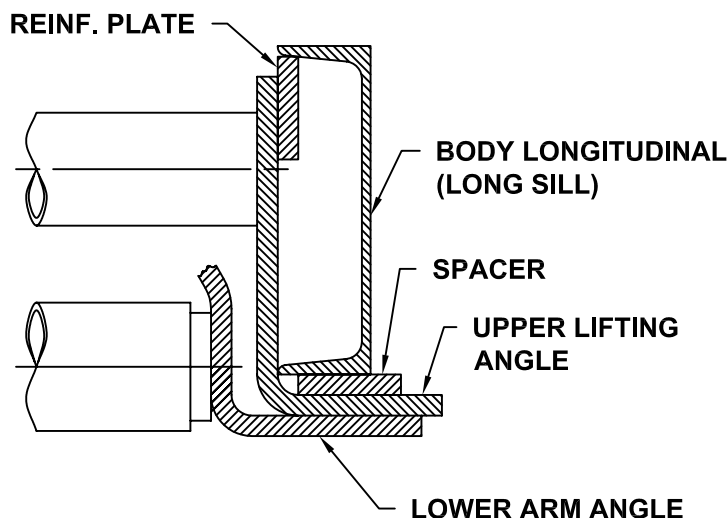
IMPORTANT!

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.

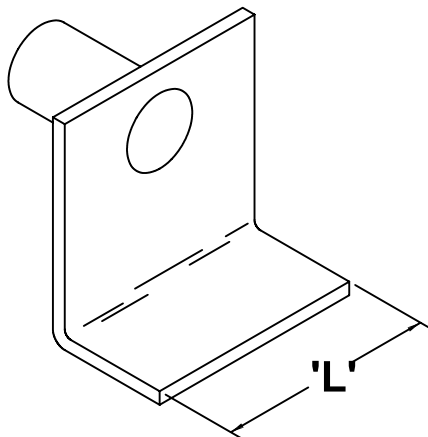
SITUATION A: LIFTING ANGLE FULLY ENVELOPS BODY LONG SILL.



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.



MANUFACTURING, INC.

TITLE
INST. INSTRUCTIONS

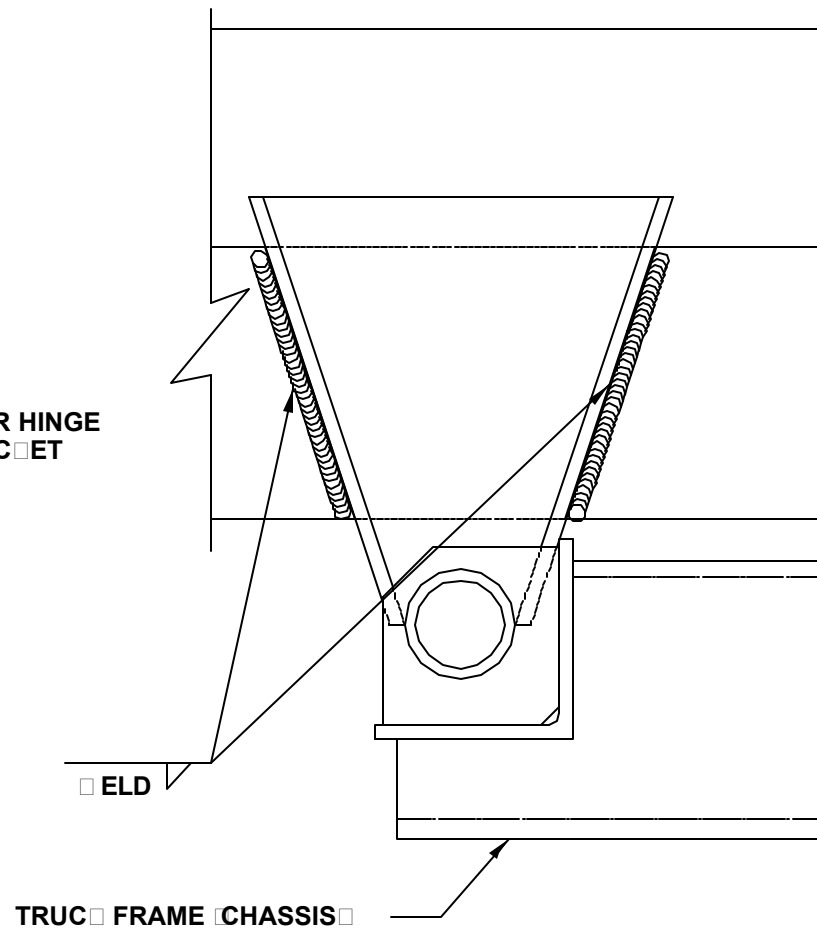
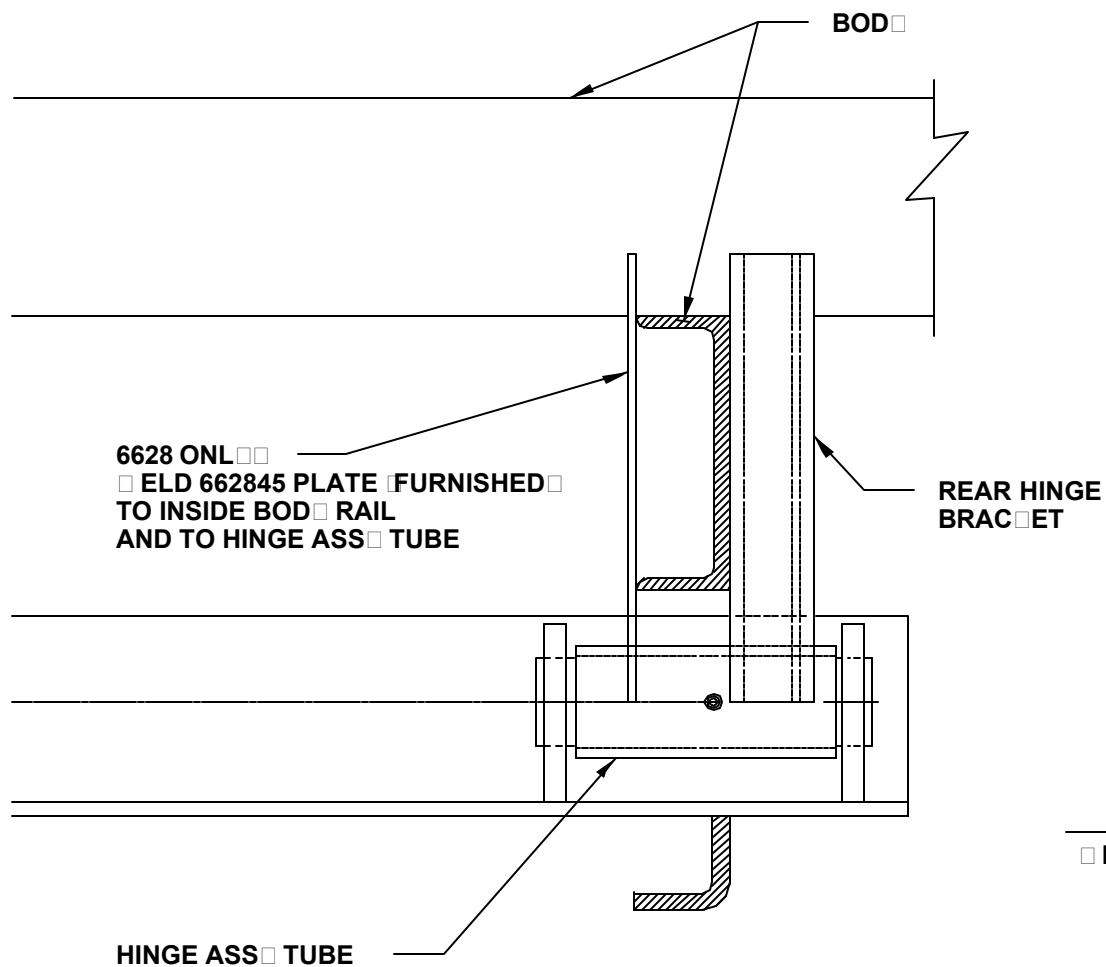
DATE
4-28-05B

SECTION
H200

▲ **VC416-6628, TRL313-6628**

SUPERSEDES
3-21-05A

520093



TITLE
 REAR HINGE TO BED MTG. INSTR.

VC 520 - VC 6628

DATE
 6-28-97A

SUPERSEDES
 10-2-97

SECTION
 H200

662861

HOIST MODEL(S)

ES/ED Hyd Pwr Unit Part Number	VP/VC6	TRL313	VC416, TRL416	VC516, TRL516	VC520, TRL520	VC620, TRL620	VC628, TRL628
Reservoir Capacity (Quarts)	6426 / 6425 3.4 / 3.4	40058M / 416081M 4.6 / 3.4	40058M / 416081M 4.6 / 3.4	40058M / 416081M 4.6 / 3.4	40058M / 416081M 4.6 / 3.4	40058MHD / 416081M 5.4 / 3.4	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.

Step 2 Fill the hydraulic reservoir as recommended below. Use only hydraulic fluid - Tellus 32 or equivalent is recommended.

2a With the hoist in the down position, add the indicated amount (Quarts) of hydraulic fluid.

2b Raise hoist one-quarter of the way (approximately 12° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.

2c Raise hoist one-half of the way (approximately 22-25° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.

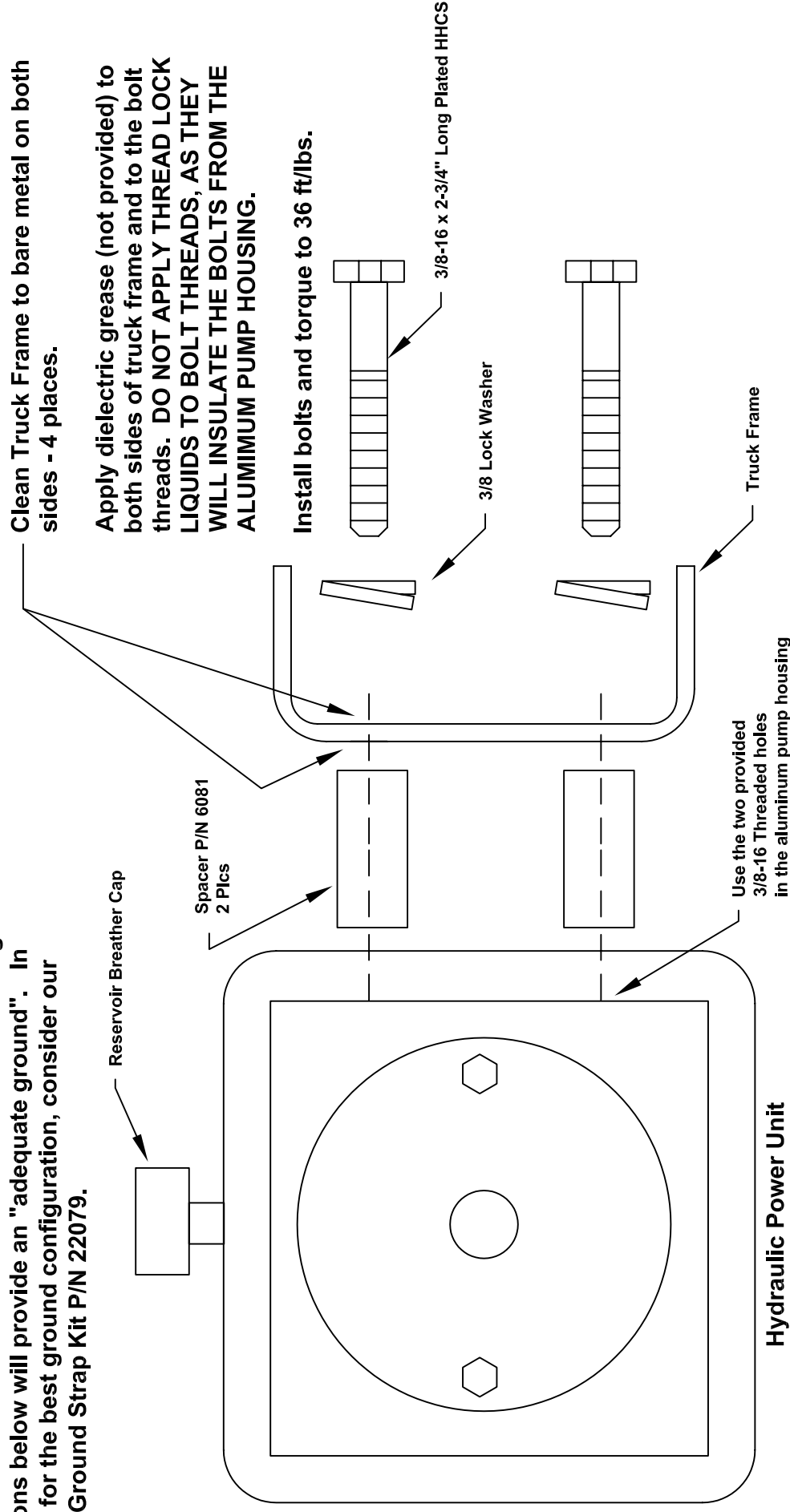
2d Raise hoist three-quarters of the way (approximately 36° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.

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.

Step 3 Attach the remaining hose to the Rod-end of they cylinder (not req'd on VP/VC6 & TRL313 hoists w/ ES hyd pwr unit)

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.

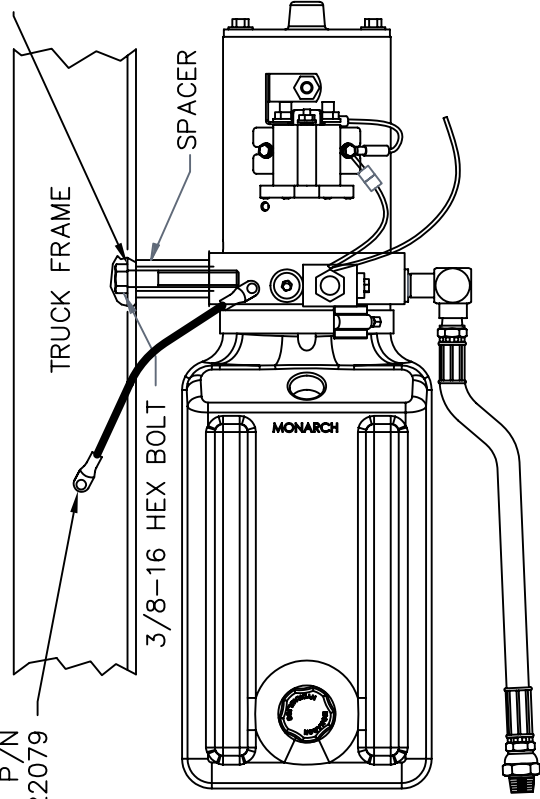


	TITLE	HYDRAULIC POWER UNIT GROUNDING	DATE	6-3-05	SECTION	-
		VP6, VC416/516, VC520/620, VC628, TRL HOISTS	SUPSEDES	-		6368

40058M

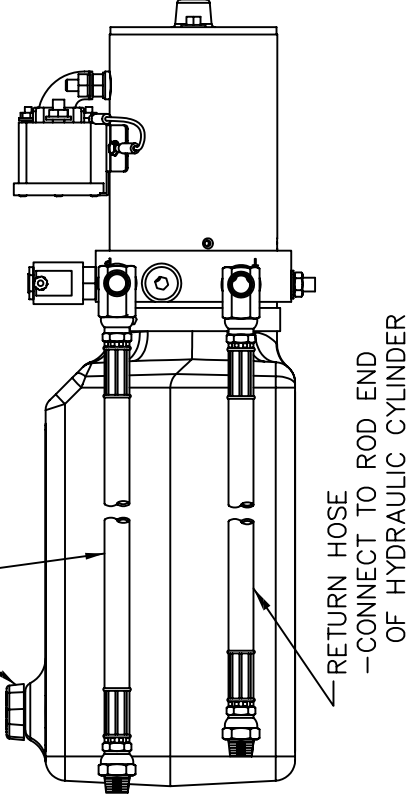
▲ OPTIONAL
GROUND STRAP
ASSY. P/N
22079

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

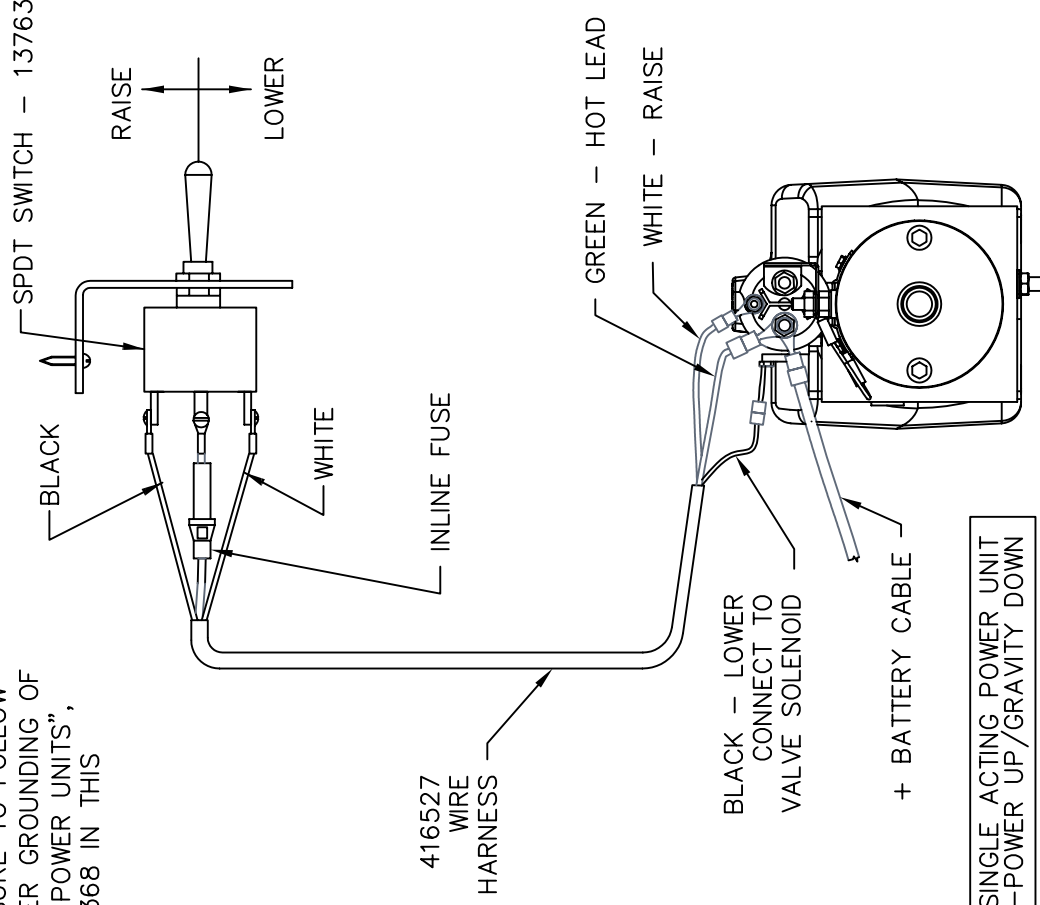


TOP VIEW

BREATHER/FILL-REF —
PRESSURE HOSE — CONNECT TO BASE END
OF HYDRAULIC CYLINDER



SIDE VIEW

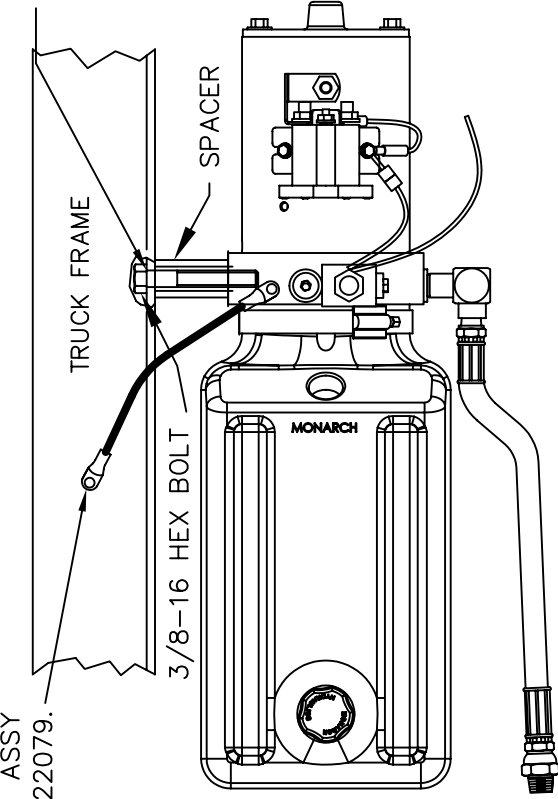


SINGLE ACTING POWER UNIT
—POWER UP/GRAVITY DOWN

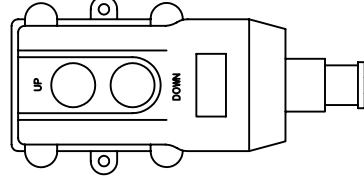
NOTE: BE SURE POWER UNIT HAS
GROUND TO TRUCK FRAME.
SEE DRAWING 416308
FOR PARTS

40058M WITH MONARCH PUSH BUTTON CONTROL

▲ OPTIONAL
GROUNDING
STRAP ASSY
P/N 22079.



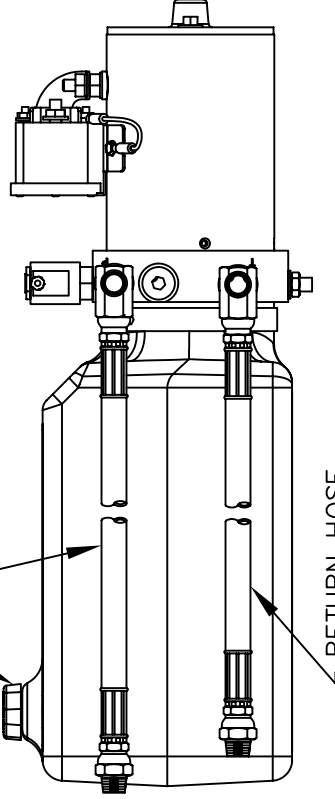
▲ NOTE: BE SURE TO FOLLOW
THE "PROPER GROUNDING
OF HYDRAULIC POWER
UNITS", DRAWING # 6368,
IN THIS MANUAL.



TOP VIEW

BREATHER/FILL - REF

PRESSURE HOSE - CONNECT TO BASE END
OF HYDRAULIC CYLINDER

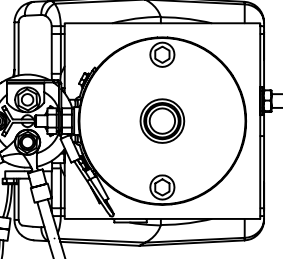


SIDE VIEW

BLACK - HOT LEAD
WHITE - RAISE HOIST

GREEN - LOWER HOIST
CONNECT TO
VALVE SOLENOID

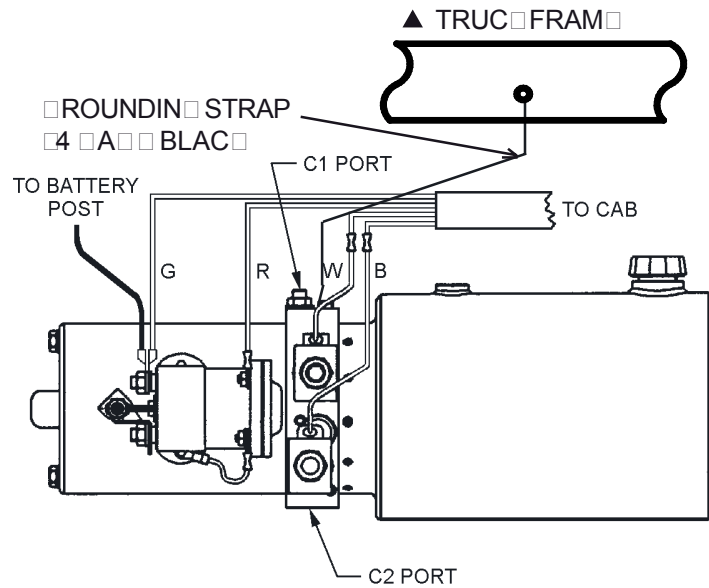
+ BATTERY CABLE



SINGLE ACTING POWER UNIT
-POWER UP/GRAVITY DOWN

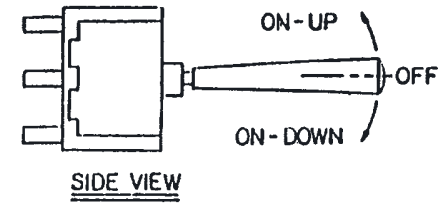
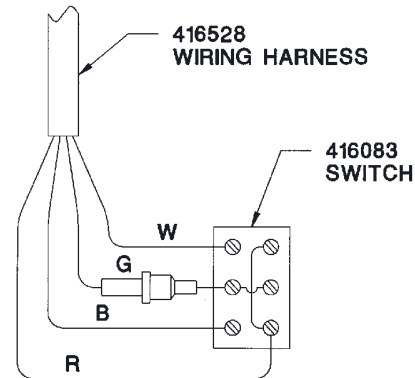
NOTE: BE SURE POWER UNIT HAS
GROUND TO TRUCK FRAME.
SEE DRAWING 416308
FOR PARTS

416081M

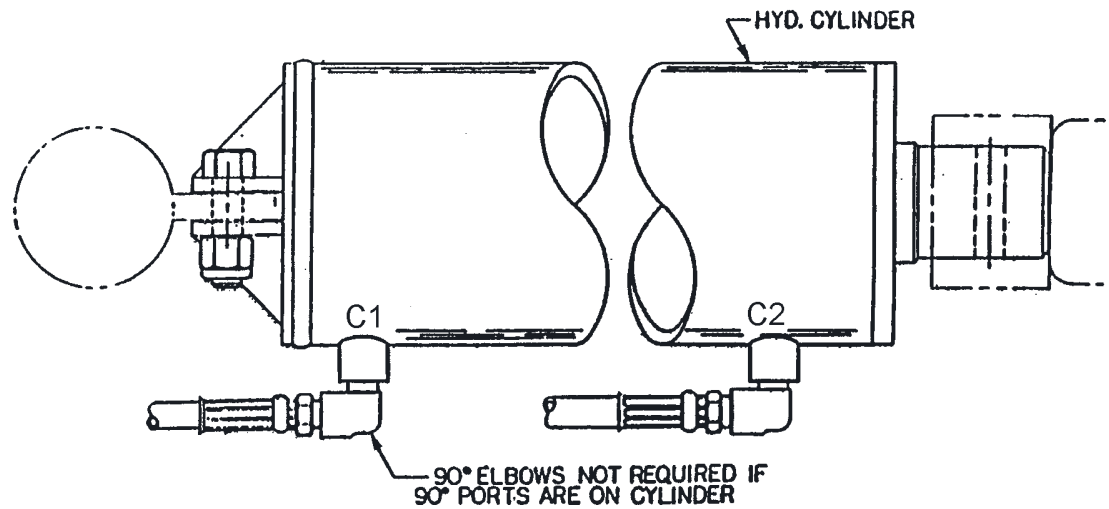


ELECTRICAL
W - WHITE WIRE
B - BLACK WIRE
G - GREEN WIRE
R - RED WIRE

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



MANUFACTURING, INC.

TITLE
416081 ED POWER UNIT

VC416 516, VC520 620

DATE
12-1-04D

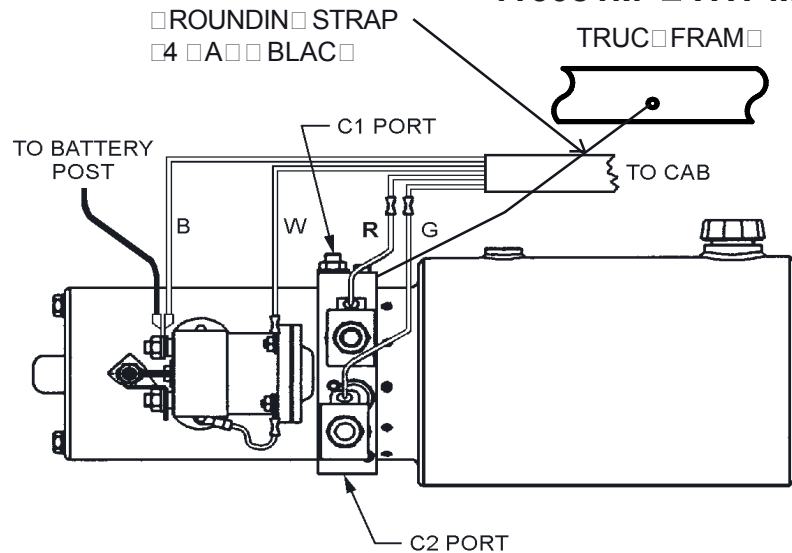
SUPERCEDES
2-15-99C

SECTION

-

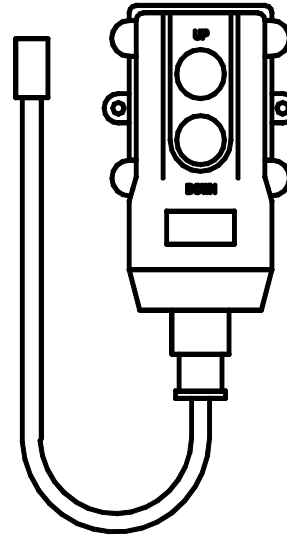
416 06

416081M ITH MONARCH PUSH BUTTON CONTROL

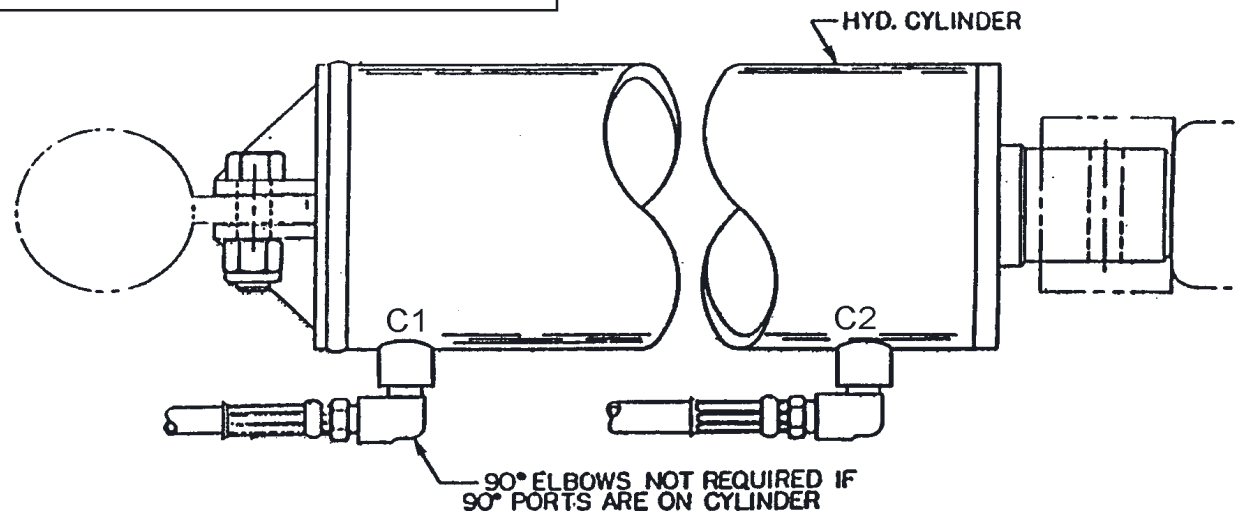


ELECTRICAL
W - WHITE WIRE
B - BLACK WIRE
G - GREEN WIRE
R - RED WIRE

HYDRAULICS
C1 - FULL END CYL
C2 - ROD END CYL



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



MANUFACTURING, INC.

TITLE
 416081M ED POWER UNIT

VC416516, VC520620

DATE
 4-20-05F

SUPERCEDES
 12-1-04E

SECTION

-

41607

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.

WARNIN

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. ☐ngage 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.

NOT

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.

WARNIN

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.



MANUFACTURING, INC.

TITLE

MAINT. ☐ OPER. INSTR.

VC 520 - VC 6628

DATE

9-4-97A

SUPERCEDES

☐-15-90

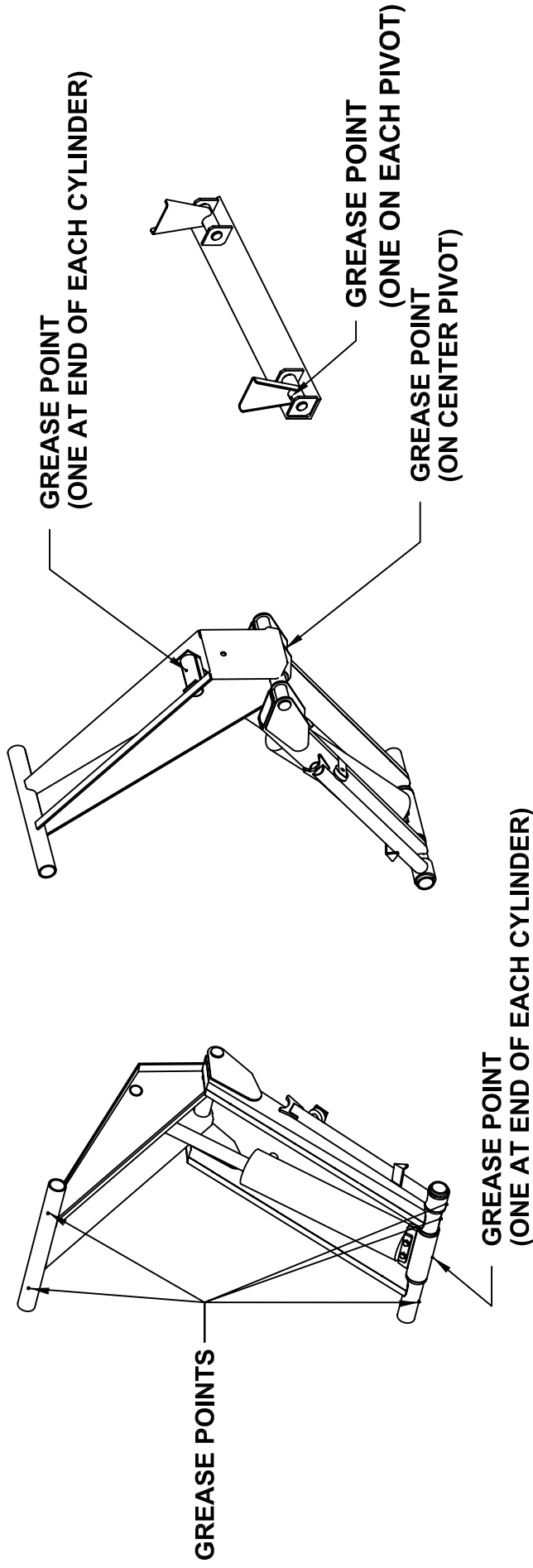
SECTION

H200

520079

HOIST GREASE POINTS

— GREASE POINT
(ONE ON PIVOT TUBE OF EACH BODY PROP)



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.



MANUFACTURING, INC.

TITLE

GREASE POINTS FOR HOISTS

DATE

07/21/08

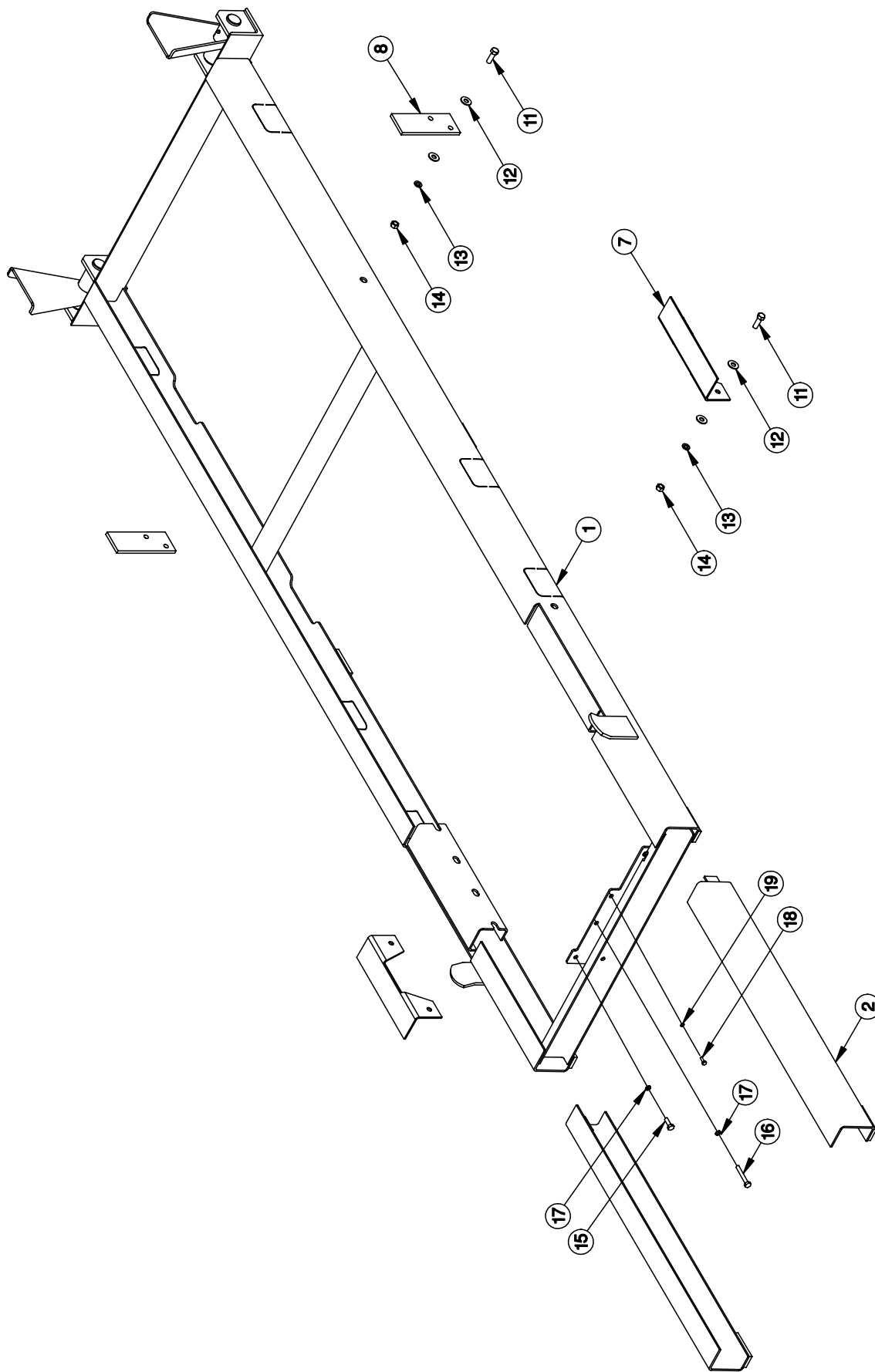
SECTION

-


SUPERSEDES

VC416/516/520 w/LINKAGE BODY PROP

520625



REPLACEMENT PARTS LIST REF 620116

 MANUFACTURING, INC.	TITLE REPLACEMENT PARTS DRAWING		DATE 6-17-03	SECTION H200
	VC 620 WITH SUBFRAME		SUPERSEDES -	620115

VC 620 □ ITH SUBFRAME REPLACEMENT PARTS LIST

IT□M	PART NUMB□R	QTY	DESCRIPTION
1	520590	1	SUBFRAM□ W□LD□D ASS□MBL□
2	520588	-	SUBFRAM□□□T□NSION □IT (OPTIONAL)
3	-	-	-
4	-	-	-
5	-	-	-
6	-	-	-
7	520531	2	FRAM□ MOUNTIN□ AN□L□
8	520532	2	BRAC□□T - FRAM□ TI□ DOWN
9	□ - ▲	-	-
10	□ - ▲	-	-
11	□HHCS05013150	4	H□□ H□AD CAP SCR□W - 1□2"-13 x 1-1□2" L□.
12	□FWSH-050	8	FLAT WASH□R - 1□2"
13	□LWSH-050	4	LOC□ WASH□R - 1□2"
14	□HNUT-05013	4	H□□ NUT - 1□2"-13
15	□HHCS03816075	1	H□□ H□AD CAP SCR□W - 3□8"-16 x 3□4" L□.
16	□HHCS03816200	1	H□□ H□AD CAP SCR□W - 3□8"-16 x 2" L□.
17	□LWSH-038	2	LOC□ WASH□R - 3□8"
18	□HHCS02520075	1	H□□ H□AD CAP SCR□W - 1□4"-20 x 3□4" L□. (□S ONL□)
19	□LWSH-025	1	LOC□ WASH□R - 1□4" (□S ONL□)
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-

□IT□M NOT SHOWN ON DRAWIN□

R□PLAC□M□NT PARTS DW□ R□F 620115



MANUFACTURING, INC.

TITLE
REPL. PARTS LIST

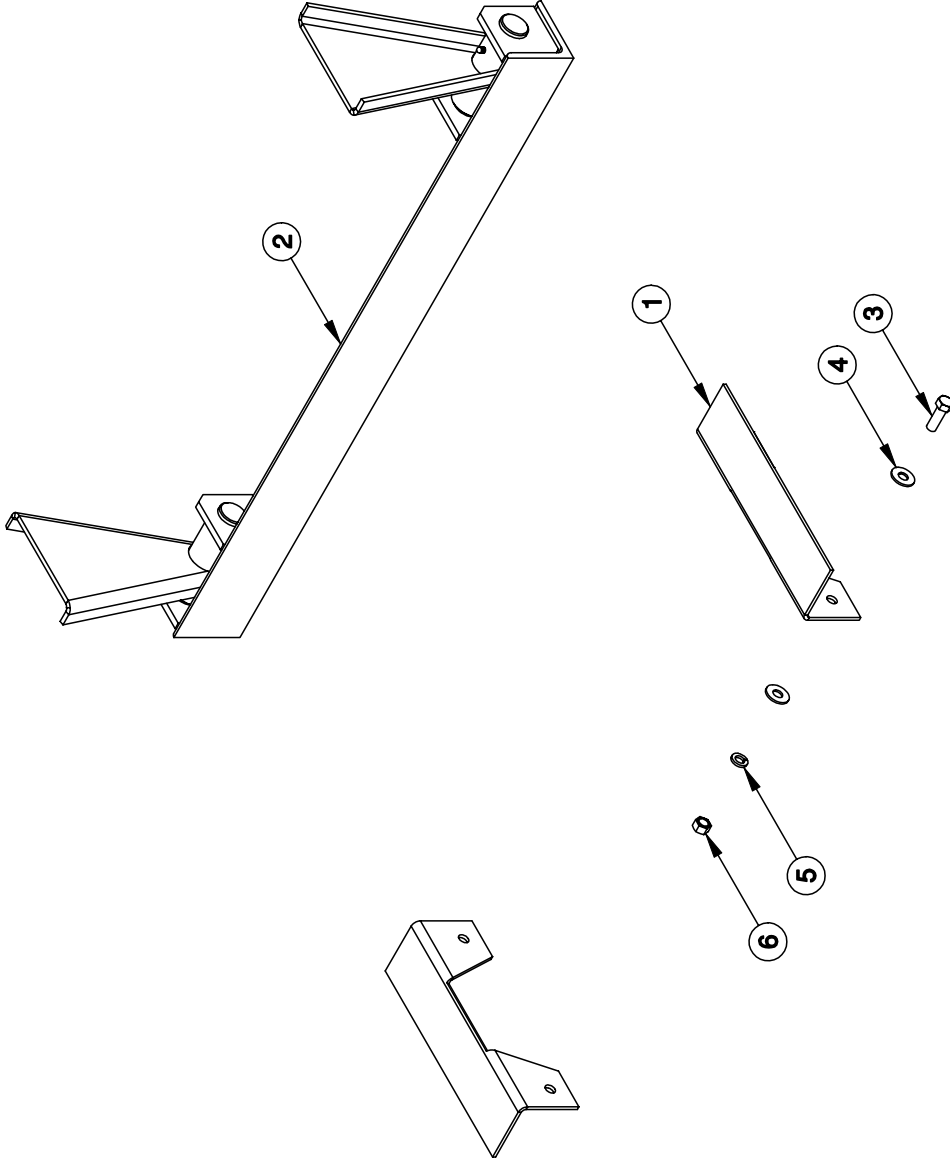
VC 620 □ ITH SUBFRAME

DATE
5-22-06A

SUPERCEDES
6-17-0□

SECTION
H200

620116



REPLACEMENT PARTS LIST REF 620118

 VENCO MANUFACTURING, INC.	TITLE	DATE	SECTION
	REPLACEMENT PARTS DRAWING	6-17-03	H200
	VC 620 (NON-SUBFRAME)	SUPERSEDES	620117
		-	

VC620 NON-SUBFRAME REPLACEMENT PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	520531	2	FRAME MOUNTING ANGLE
2	662057	1	REAR HINGE ASSMBLY
3	HHCS05013150	4	HEX HEAD CAP SCREW - 1/2"-13 x 1-1/2" L.
4	FWSH-050	8	FLAT WASHER - 1/2"
5	LWSH-050	4	LOCK WASHER - 1/2"
6	HNUT-05013	4	HEX NUT - 1/2-13
7	- ▲	-	-
8	- ▲	-	-
9	-	-	-
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-

REPLACEMENT PARTS DRAWING OF 620117



MANUFACTURING, INC.

TITLE
REPL. PARTS LIST

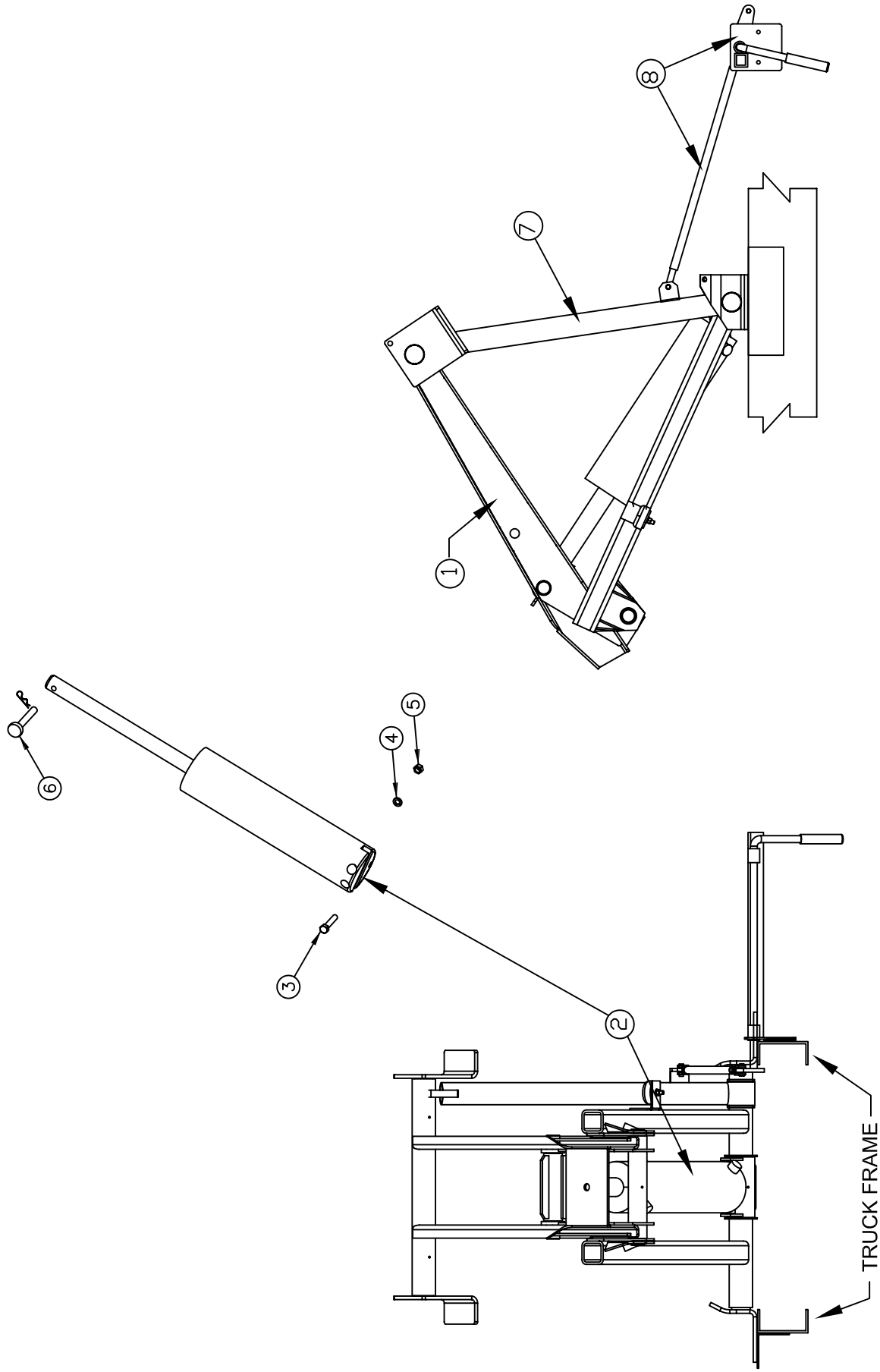
VC 620 NON-SUBFRAME

DATE
5-22-06A

SUPERCEDES
6-17-0

SECTION
H200

620118



REPLACEMENT PARTS LIST REF 620134

 Venco MANUFACTURING, INC.	TITLE		SECTION
	REPLACEMENT PARTS		C100
	VC620 - LINKAGE BODY PROP		DATE 10-7-10 SUPERSEDES -

62014

REPLACEMENT PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	620203	1	SCISSORS ASSY/MBL
2	620907 ▲	1	HYDRAULIC CYLINDER
3	HHCS05013275-8	2	HEAD CAP SCREW - 1/2"-13 x 2-3/4" L. R 8
4	LWSH-050	2	LOCK WASH - 1/2"
5	HNUT-05013	2	HEX NUT 1/2" - 13
6	416545	1	5/8 x 3-1/2 CLIP VIS PIN ASSY/MBL
7	620025	1	BODY PROP W/LOAD ASSY/MBL
8	520638-ALT01	1	CONTROL HANDLE W/LOAD ASSY. W/31/4AD LIN
9	-	-	-
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-

REPLACEMENT PARTS DWG REF 620133



MANUFACTURING, INC.

TITLE

REPL. PARTS LIST

DATE

5-24-06A

SECTION

H200

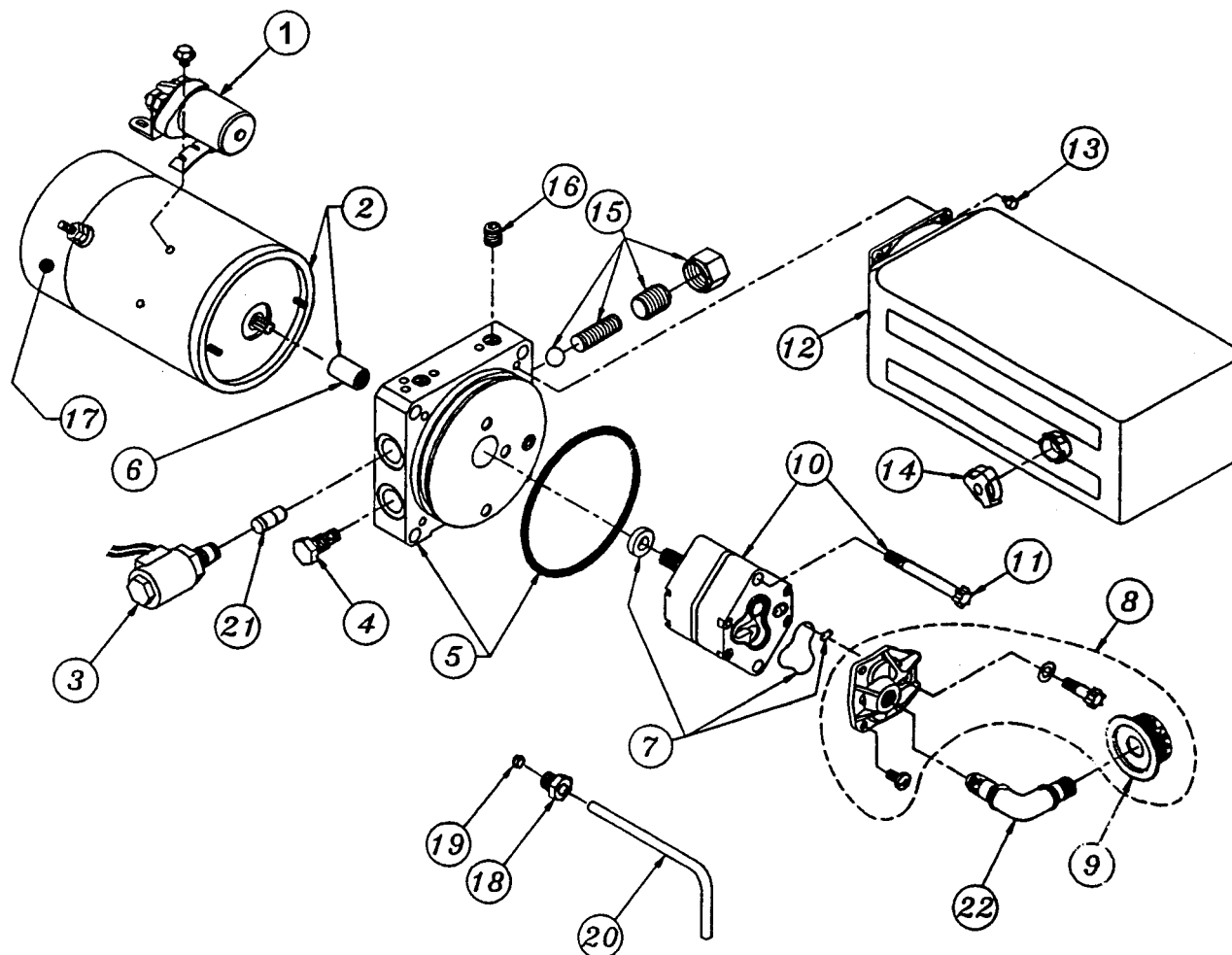
VC 620 1/2 LIN. PROP

SUPERCEDES

6-17-04

62014

40058-HD SINGLE-ACTING HYDRAULIC POWER UNIT SERVICE PARTS LIST



ITEM NO.	DESCRIPTION	FENNER P/N	QTY.
1	SOLENOID 12 VDC	2145-AA	1
2	MOTOR 12 VDC, EXT. DUTY	1789-AC	1
3	VALVE NC 12 VDC	EI-1019-04	1
4	VALVE CARTRIDGE CHECK	2507-AA	1
5	RESERVOIR O-RING	G1-1073-48	1
6	COUPLING	1118-AA	1
7	PUMP O-RING KIT	K-40	1
8	INLET PLUMBING KIT	KH	1
9	FILTER	1611-AA	1
10	PUMP ASSEMBLY	PS-2.0	1
11	PUMP MOUNTING BOLT	2825-AA	2

ITEM NO.	DESCRIPTION	FENNER P/N	QTY.
12	RESERVOIR	4454-AC	1
13	RESERVOIR SCREW	3346-AA	4
14	BREATHER	8060-CC	1
15	ADJ. RELIEF VALVE ASSY	RV-2	1
16	PLUG	1456-AA	1
17	MOTOR BRUSH KIT	K-90	1
18	COMPRESSION NUT	816-217	1
19	TUBE SLEEVE	816-218	1
20	RETURN TUBE	T2-1006-28	1
21	FLOW CONTROL	FC-2.5	1
22	INLET ELBOW ASSEMBLY	S7-4000-09	1



MANUFACTURING, INC.

TITLE
SERVICE PARTS LIST

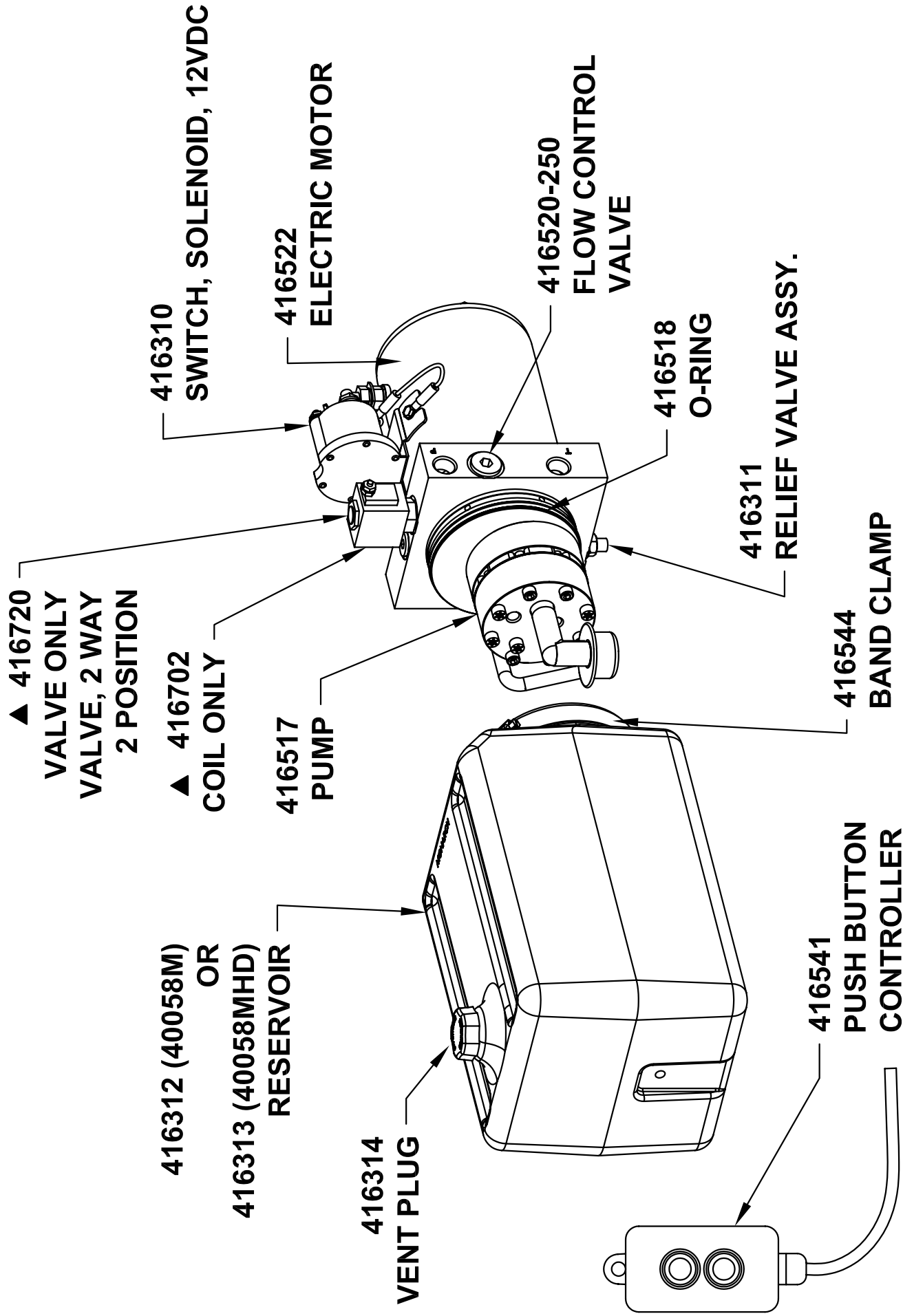
VC 620 628


DATE
12-98

SUPERCEDES
-

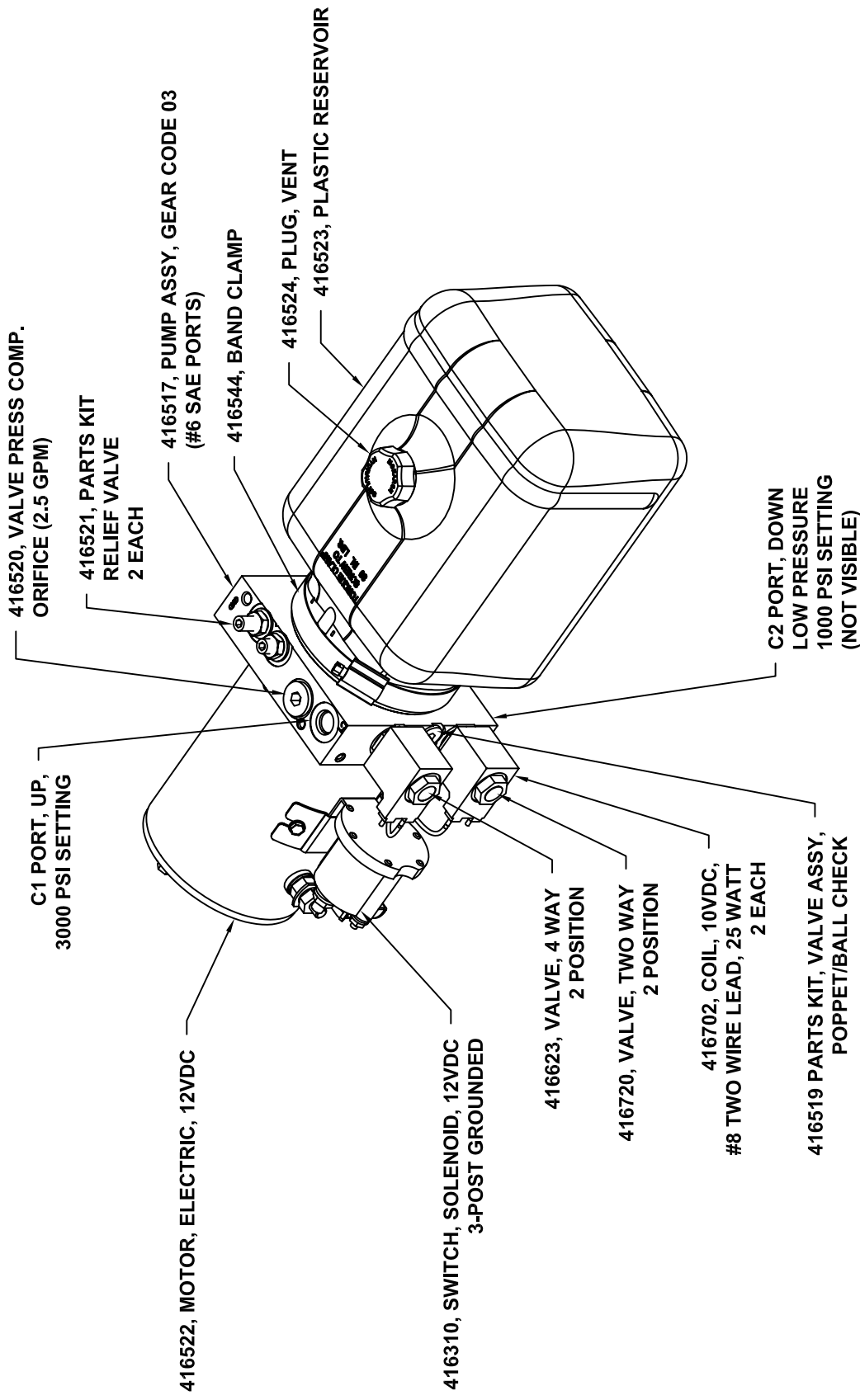
SECTION
H400

40058-HD



 VENCO [®] MANUFACTURING, INC.	TITLE		DATE		SECTION
	PARTS LIST & DRAWING		6-14-05B		-
			SUPERSEDES		
	40058M & 40058MHD POWER UNITS		4-20-05A		416308

REPLACEMENT PARTS 416081M



NOT SHOWN: 416533, PUSH BUTTON PENDANT, YELLOW & GREY
416518, O-RING, INDUSTRIAL (3-5/8 x 3-7/8 x 1/8)



MANUFACTURING, INC.

TITLE

REPLACEMENT PARTS DRAWING

DATE

7-27-05D

SECTION

-

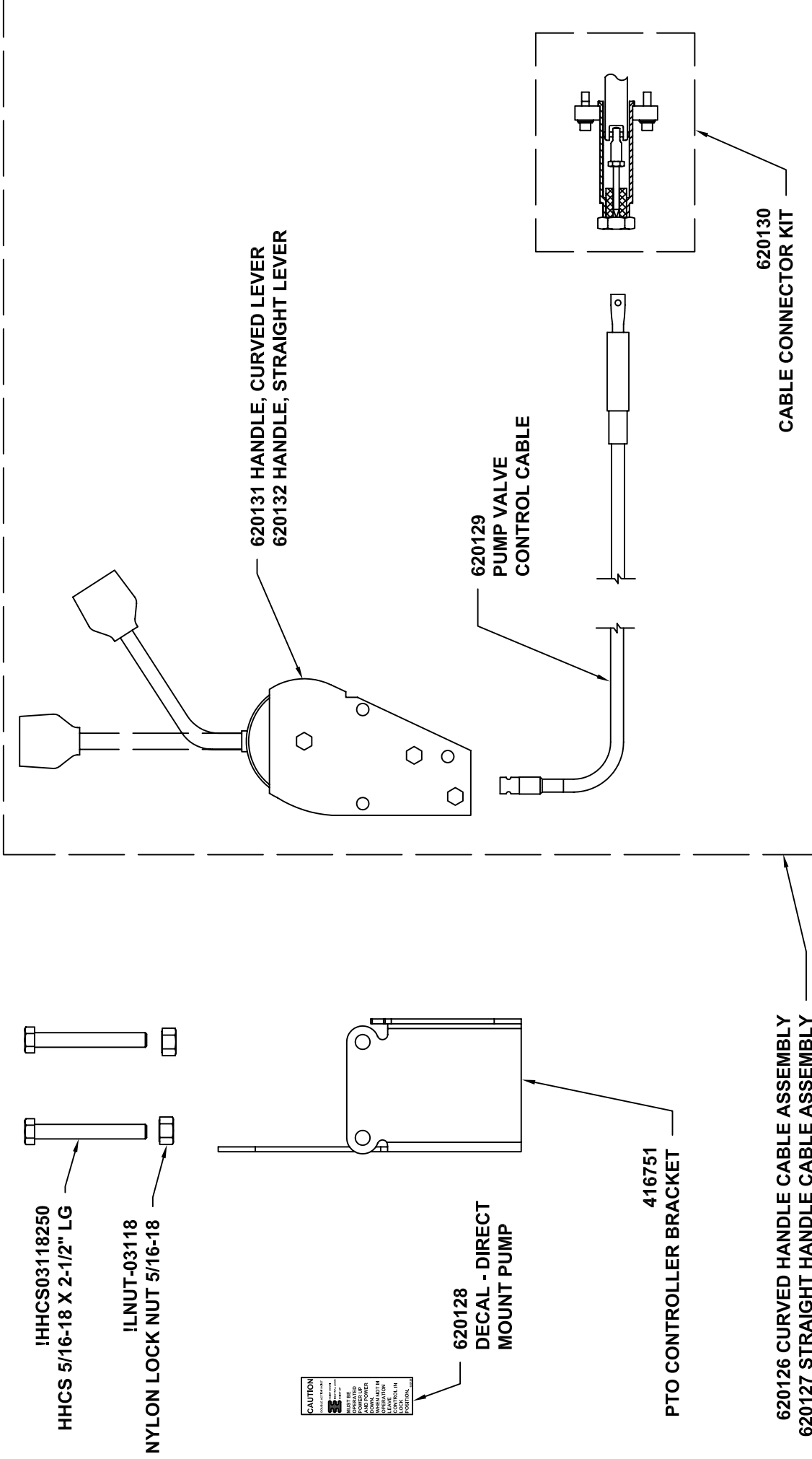
SUPERSEDES


6-14-05C

416081M POWER UNIT

416508

620125 CABLE & CONSOLE KIT - CURVED HANDLE 620124 CABLE & CONSOLE KIT - STRAIGHT HANDLE



 VENCO MANUFACTURING, INC.	TITLE		DATE	SECTION
	REPLACEMENT PARTS & DRAWING		9-16-04	-
	PTO PUMP CABLE		SUPERSEDES	620245



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.

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