



VENCO®

HOISTS

***INSTALLATION
& OWNER'S
MANUAL***



Sold and Serviced by:

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VC 620 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	TABLE OF CONTENTS
	VC 620

DATE	8-12-05J
SUPERCEDES	7-28-05H

SECTION	-
	620600

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, 628020, 552010, 662052 OR 662851.
4. USE PUMP WHICH MEETS VENCO SPECIFICATION
SEE PAGE: 416138.



MANUFACTURING, INC.

TITLE

CAUTION NOTE

DATE

10-1-01

SECTION

-

SUPERCEDES

-

416733

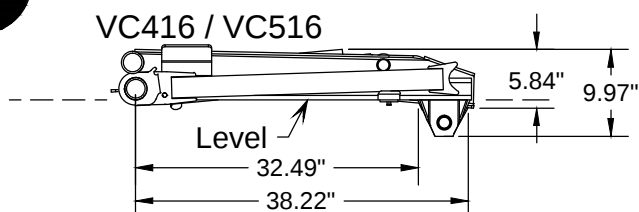
!! IMPORTANT WARNING !!

* ALL VENCO CONVERSION HOISTS → VC416 THRU VC6628 *

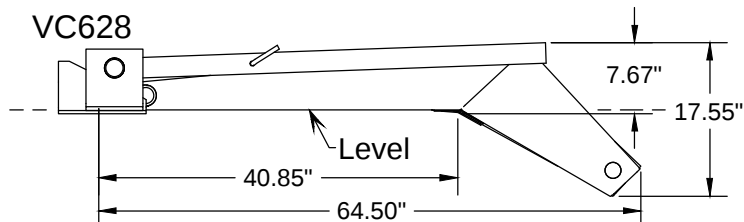
1

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

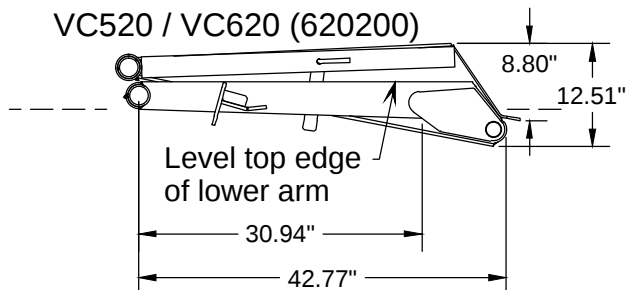
VC416 / VC516



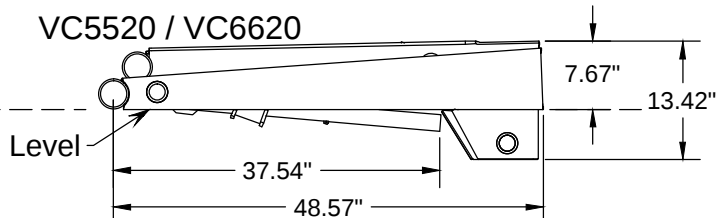
VC628



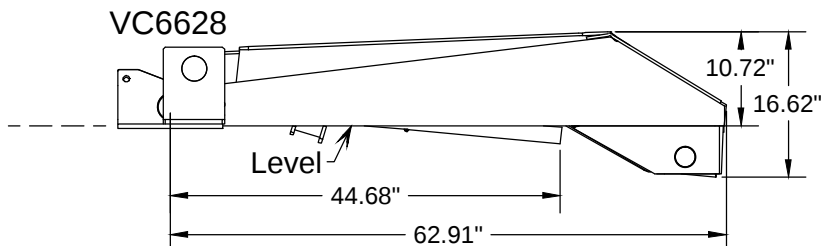
VC520 / VC620 (620200)



VC5520 / VC6620



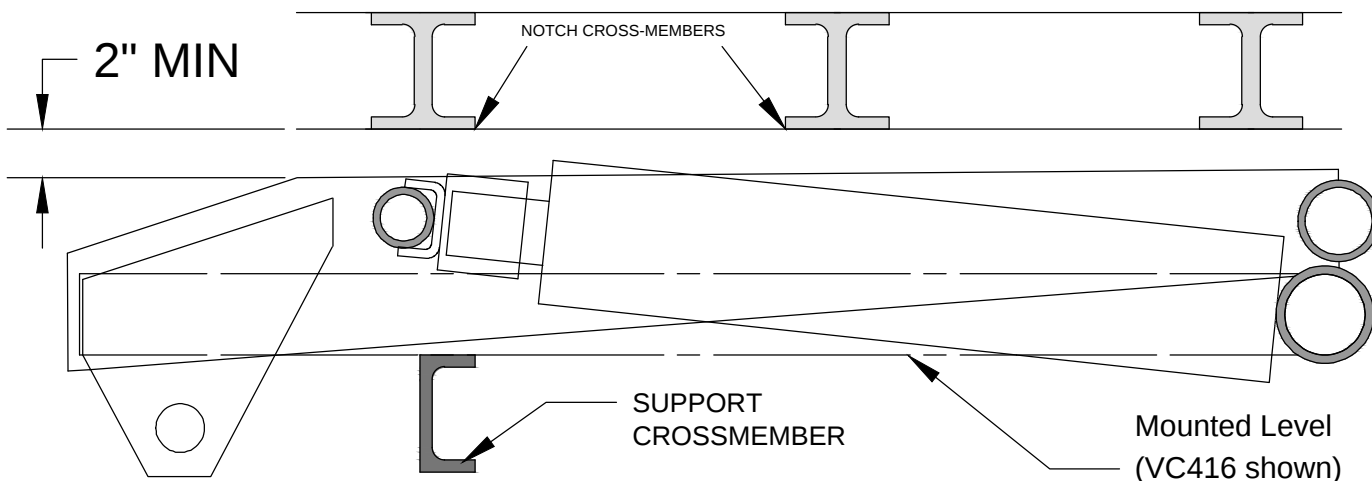
VC6628



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 LOWERING HOIST, KEEP
P.T.B. "LIFT" CLUTCH ENGAGED.
10-000-0000

AFFIX TO TRUCK
DASHBOARD

CAUTION

- 1. Do not use this equipment without proper training.
- 2. Do not use this equipment in the presence of flammable or explosive atmospheres.
- 3. Do not use this equipment in the presence of high voltage.
- 4. Do not use this equipment in the presence of high pressure.
- 5. Do not use this equipment in the presence of high temperature.
- 6. Do not use this equipment in the presence of high humidity.
- 7. Do not use this equipment in the presence of high dust.
- 8. Do not use this equipment in the presence of high noise.
- 9. Do not use this equipment in the presence of high vibration.
- 10. Do not use this equipment in the presence of high magnetic field.
- 11. Do not use this equipment in the presence of high electric field.
- 12. Do not use this equipment in the presence of high radio frequency.
- 13. Do not use this equipment in the presence of high electromagnetic interference.
- 14. Do not use this equipment in the presence of high static electricity.
- 15. Do not use this equipment in the presence of high ionizing radiation.
- 16. Do not use this equipment in the presence of high cosmic radiation.
- 17. Do not use this equipment in the presence of high solar radiation.
- 18. Do not use this equipment in the presence of high ultraviolet radiation.
- 19. Do not use this equipment in the presence of high infrared radiation.
- 20. Do not use this equipment in the presence of high microwave radiation.
- 21. Do not use this equipment in the presence of high laser radiation.
- 22. Do not use this equipment in the presence of high acoustic radiation.
- 23. Do not use this equipment in the presence of high mechanical radiation.
- 24. Do not use this equipment in the presence of high thermal radiation.
- 25. Do not use this equipment in the presence of high chemical radiation.
- 26. Do not use this equipment in the presence of high biological radiation.
- 27. Do not use this equipment in the presence of high nuclear radiation.
- 28. Do not use this equipment in the presence of high cosmic background radiation.
- 29. Do not use this equipment in the presence of high natural background radiation.
- 30. Do not use this equipment in the presence of high artificial background radiation.

© 1998 by [Company Name]

CAUTION
STAND CLEAR
WHILE OPERATING

[illegible]

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



VENCO MANUFACTURING, INC.

DECAL LOCATION

VC416-6628, TRL416-6628

DATE _____

H100

SUPERCEDES
12-27-99B

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.



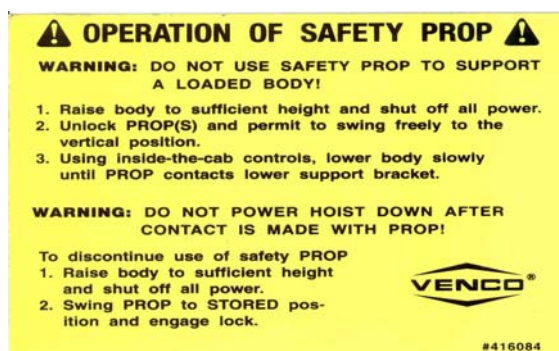
PART NO.: 416084

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.



MANUFACTURING, INC.

TITLE
DECAL LIST

VC416-6628, TRL416-6628

DATE
8-29-05B

SUPERSEDES
8-15-05A

SECTION
-

628820

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
6-12-03

SUPERSEDES
-

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°
SUBFRAME HEIGHT: 4-1/2"
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

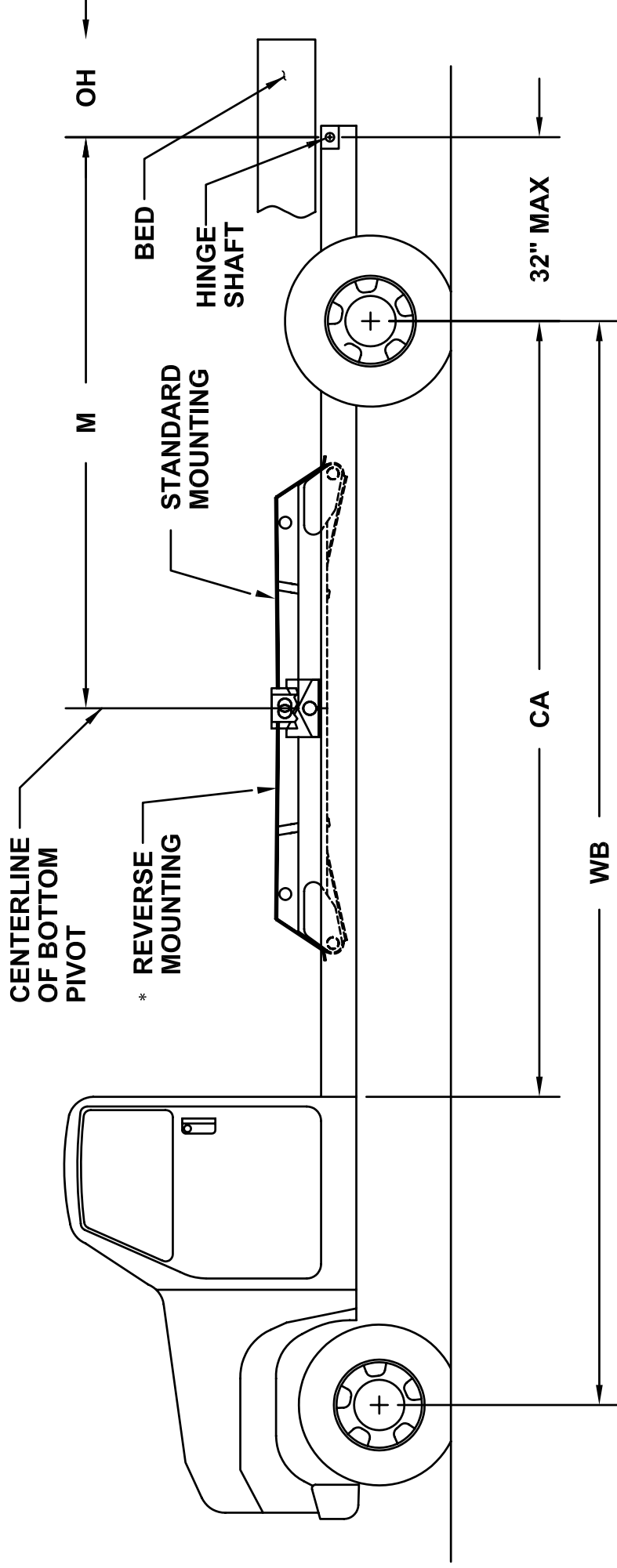
VC 620 HOIST

DATE
9-19-03A

SUPERSEDES
6-12-03

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.

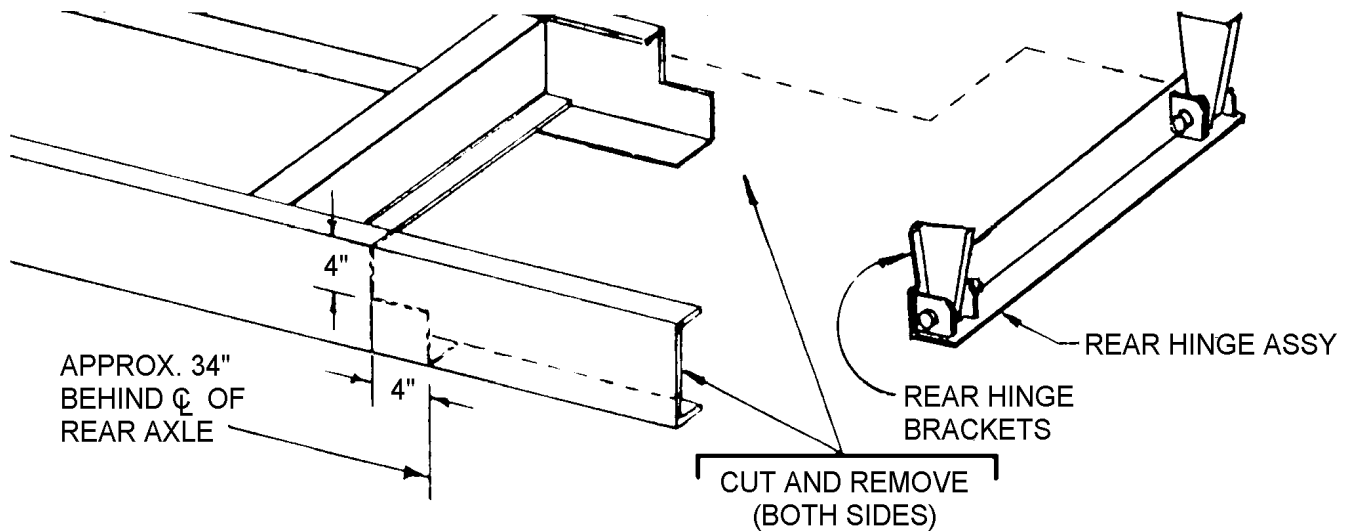


Figure 2 - Frame Modification and Rear Hinge Attachment

- 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.



MANUFACTURING, INC.

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)

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

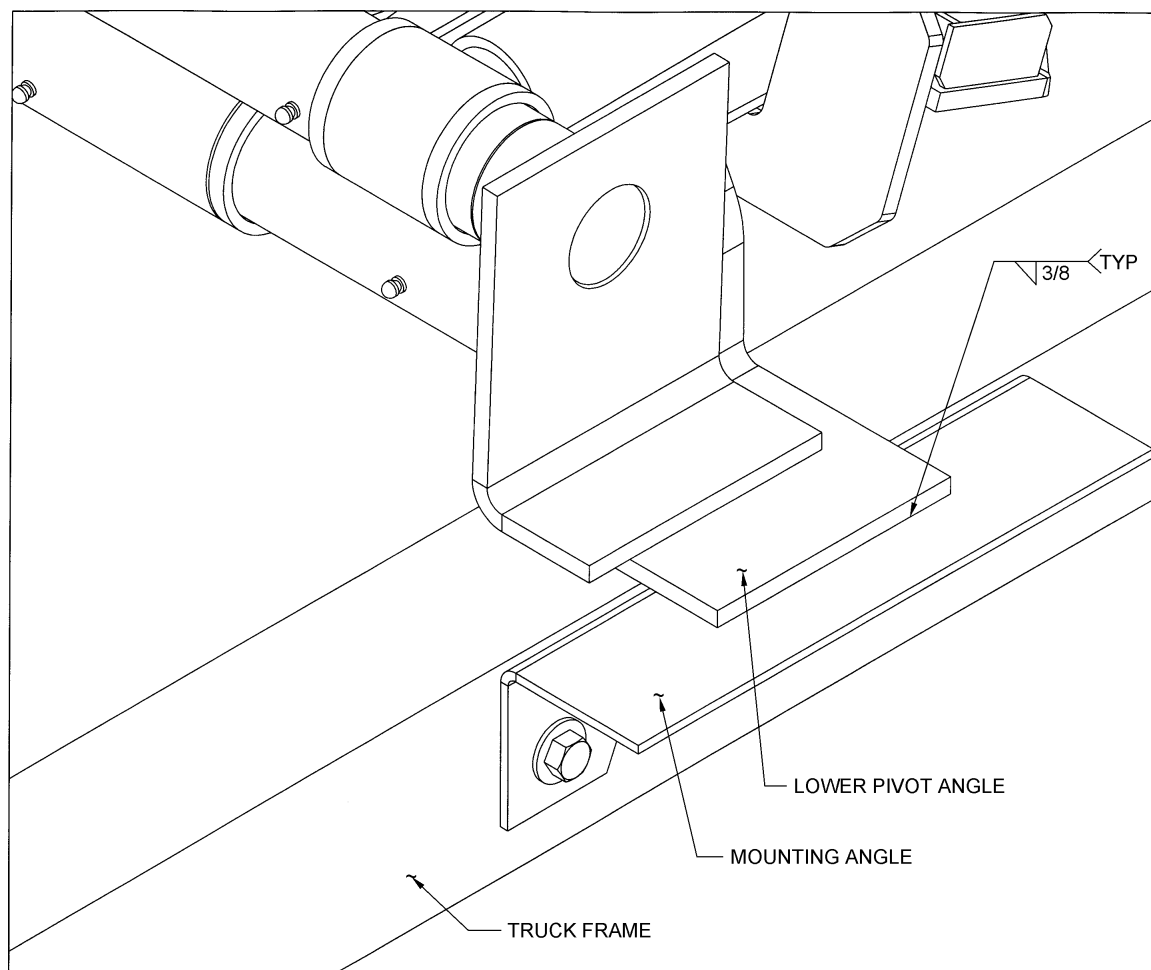


Figure 3 - Mounting Angle Assembly



MANUFACTURING, INC.

TITLE

MOUNTING INSTR.

VC 520 (NON-SUBFRAME)

DATE

11-16-98

SUPERCEDES

-

SECTION

H200

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.

VC 520 / 620 (SUBFRAME)

DATE

6-18-03B

SUPERCEDES

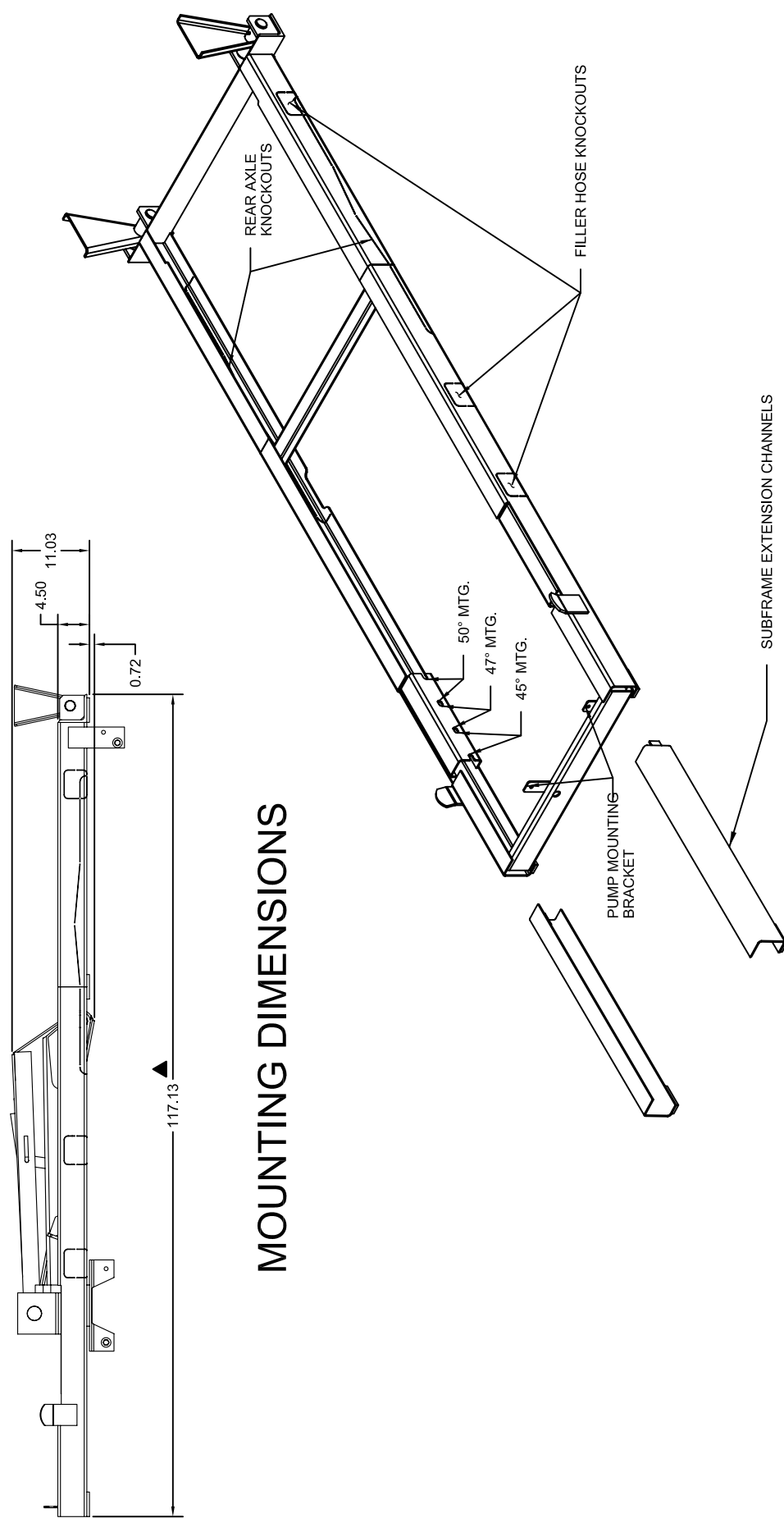
3-30-99A

SECTION

H200

520606

520 & 620 SUBFRAME FEATURES
(520501)



MOUNTING DIMENSIONS

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

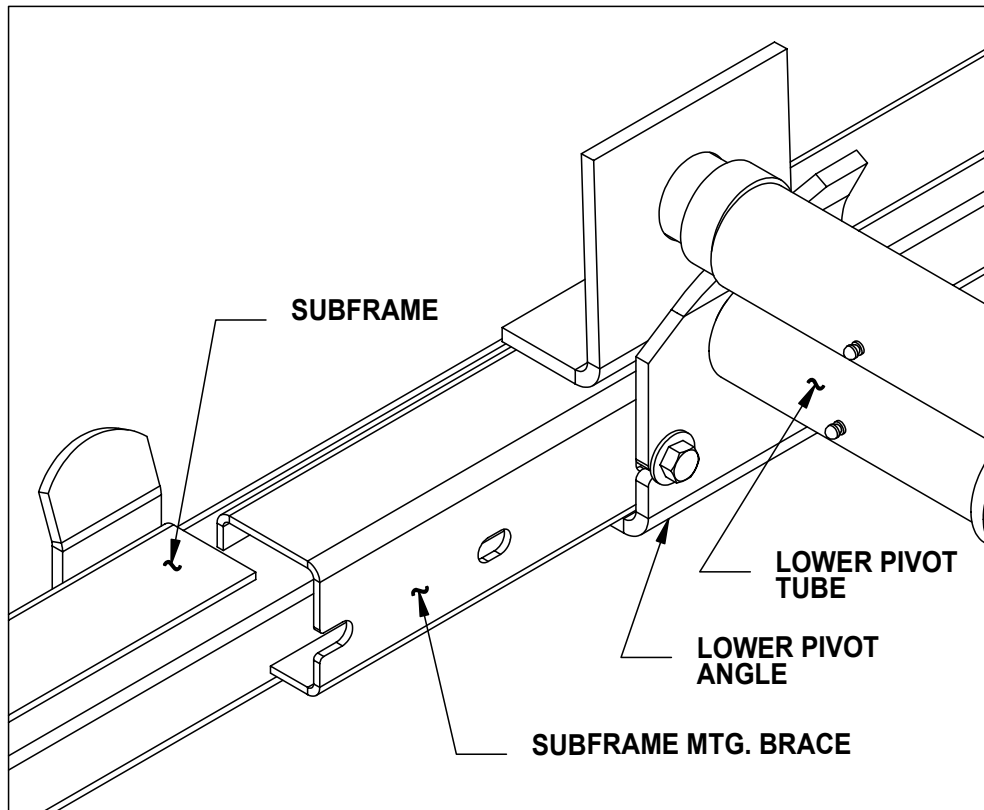


FIGURE 4a

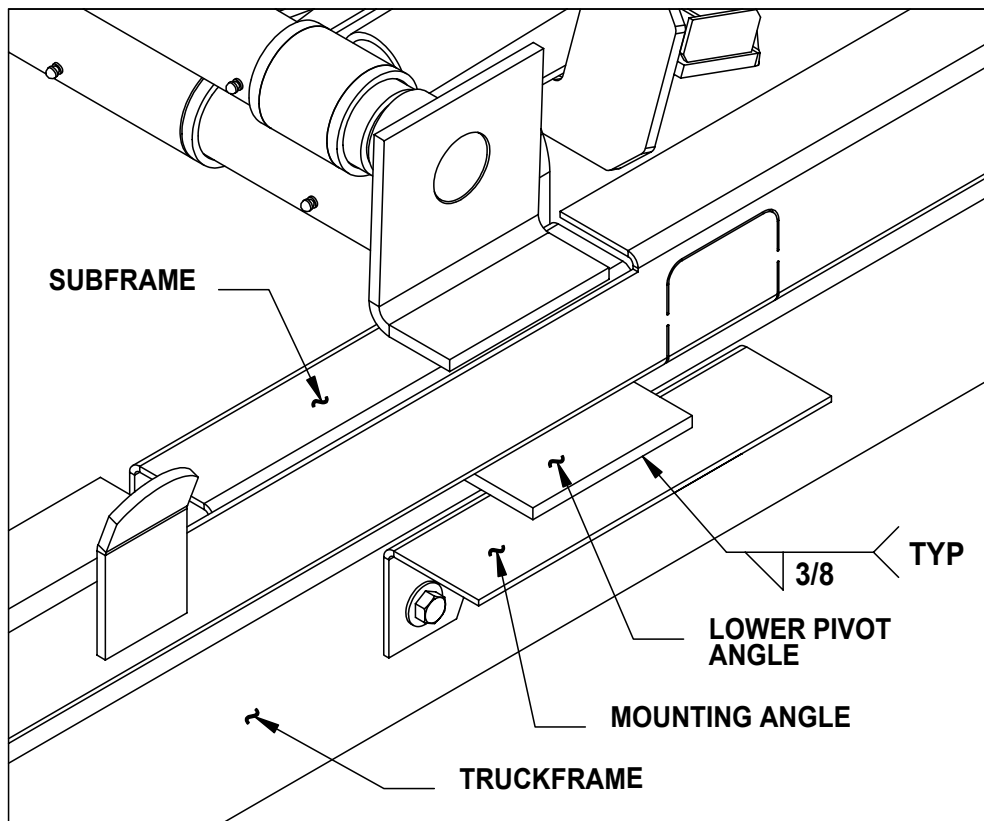


FIGURE 4b



MANUFACTURING, INC.

TITLE
MOUNTING INSTR.

VC 520 / VC 620▲

DATE
6-12-03A

SUPERSEDES
11-17-98

SECTION
H200

520608

HOIST MOUNTING INSTRUCTIONS (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.

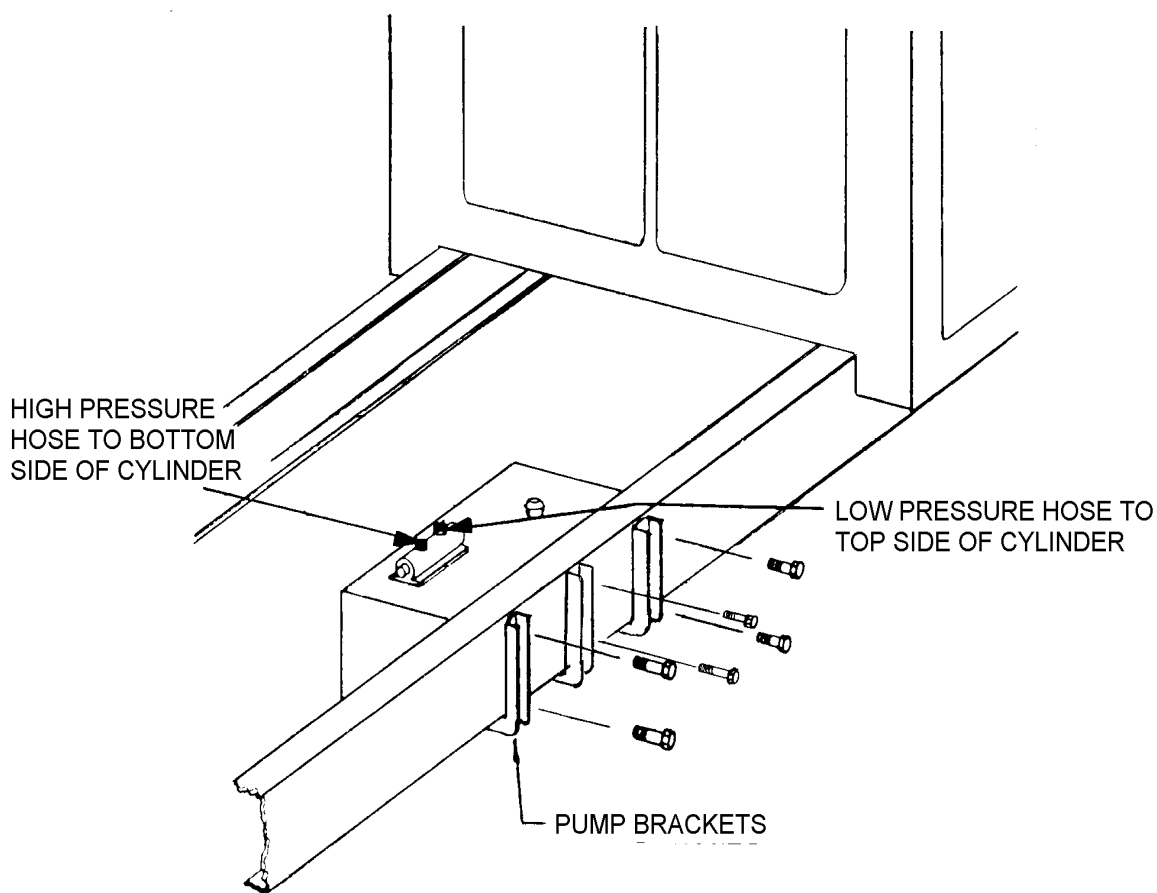


Figure 5 - Pump Installation



MANUFACTURING, INC.

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.

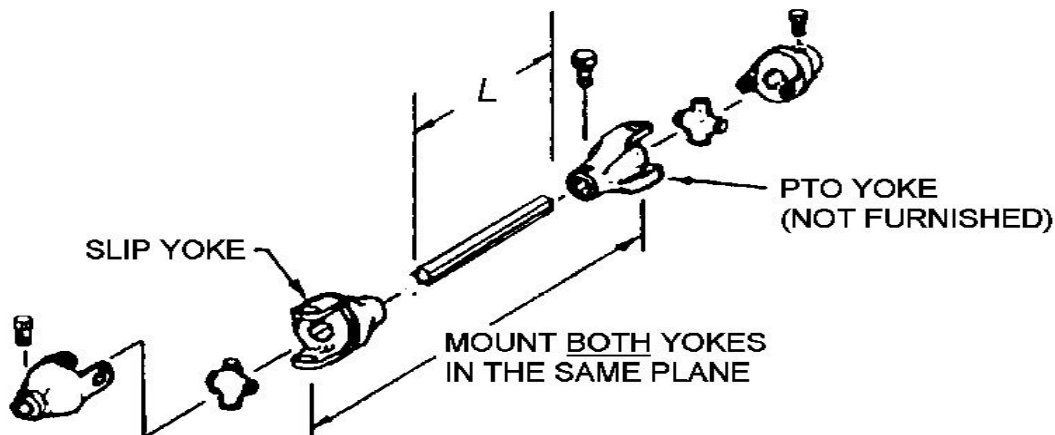


Figure 6 - Drive Shaft Assembly

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

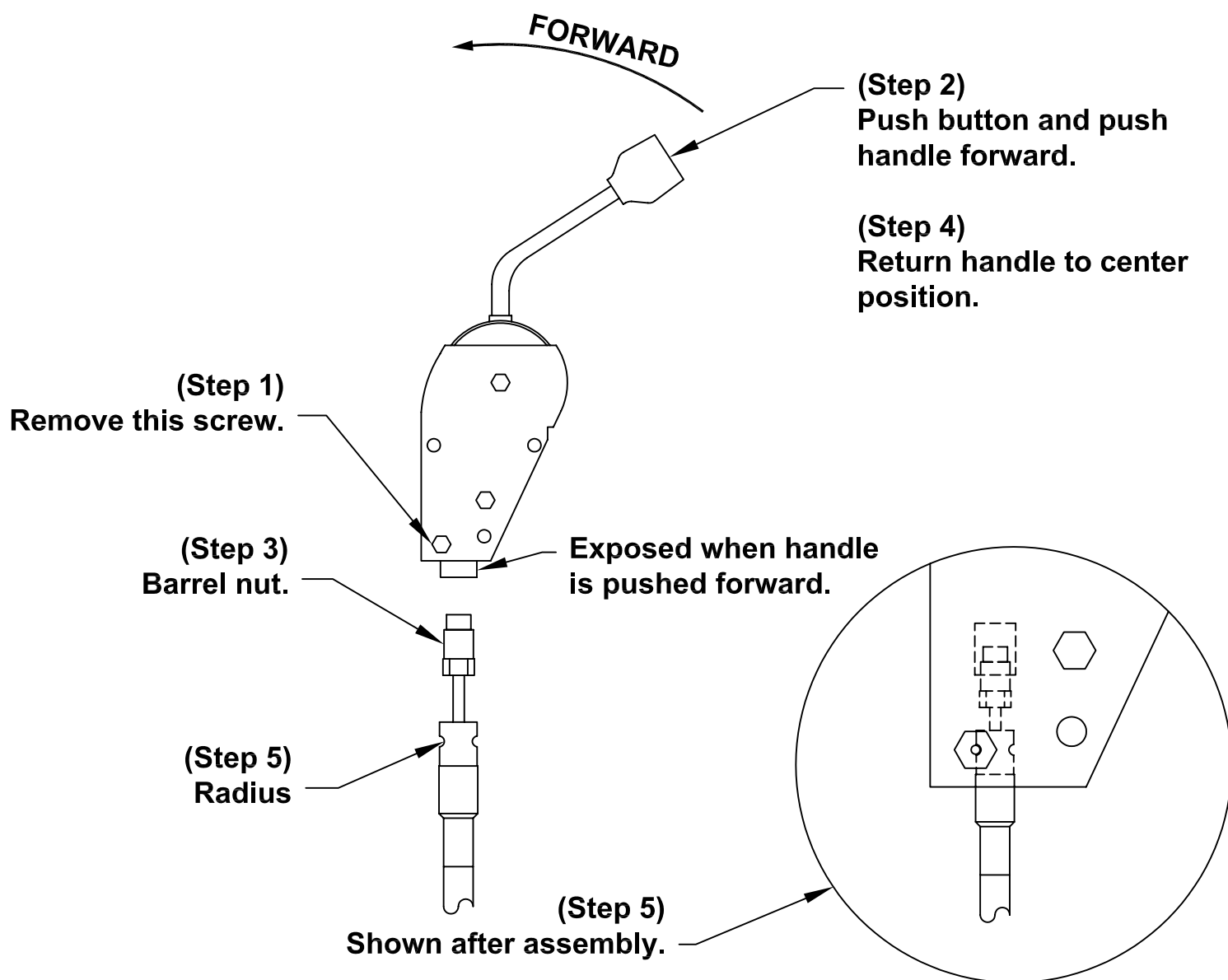
SUPERCEDES
11-17-98C

SECTION
H200

520076

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

PTO PUMP CABLE

DATE

9-17-04

SUPERSEDES

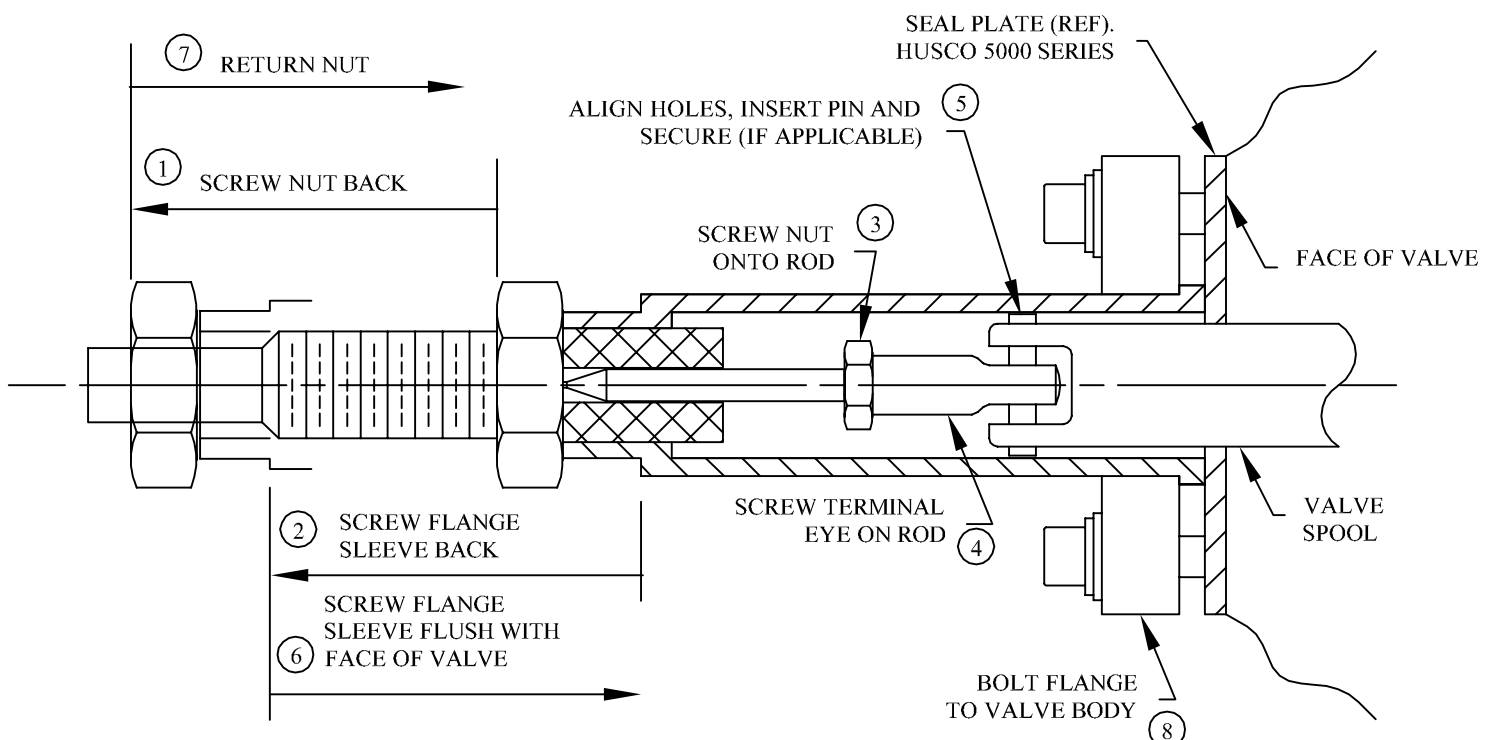
-

SECTION

-

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

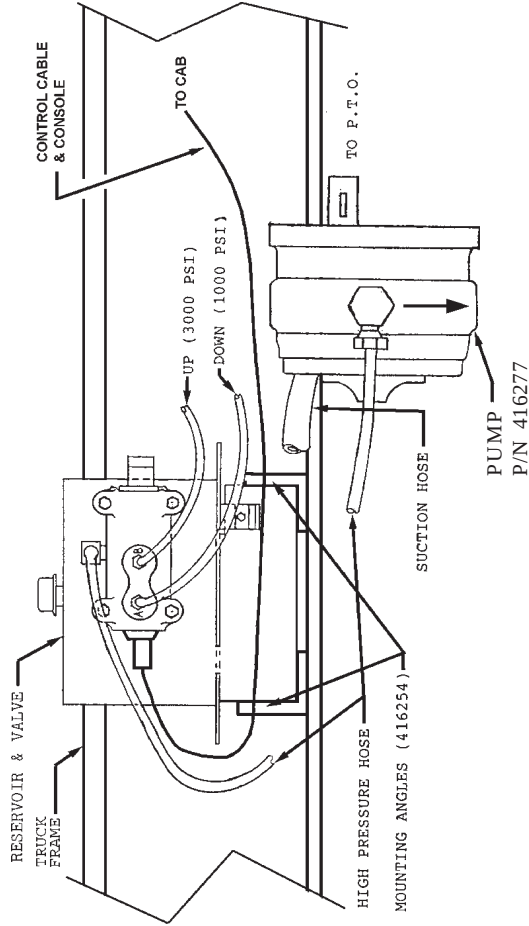
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SECTION

-

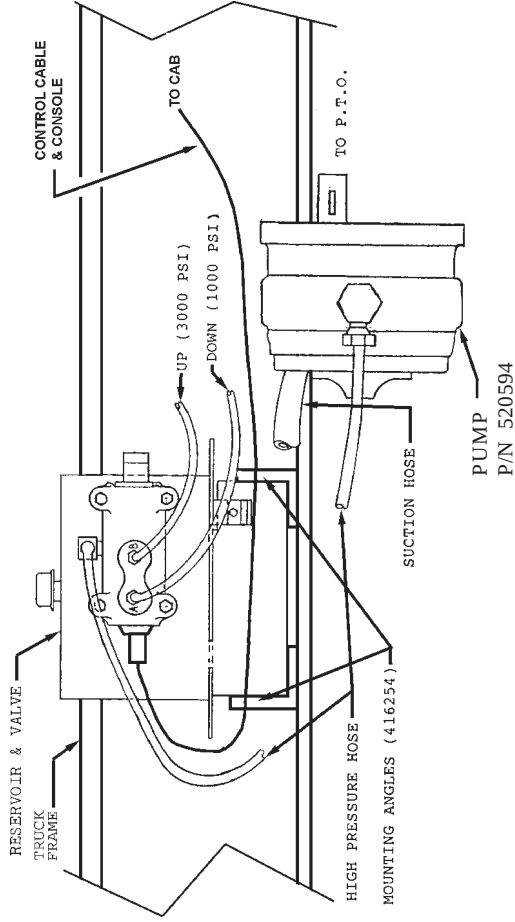
416755

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	416044 ▲			▲ 520574		▲ (2) 520574		
Down Hose		416045			628041	(2) 416045	(2) 416041	
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

SECTION

H200

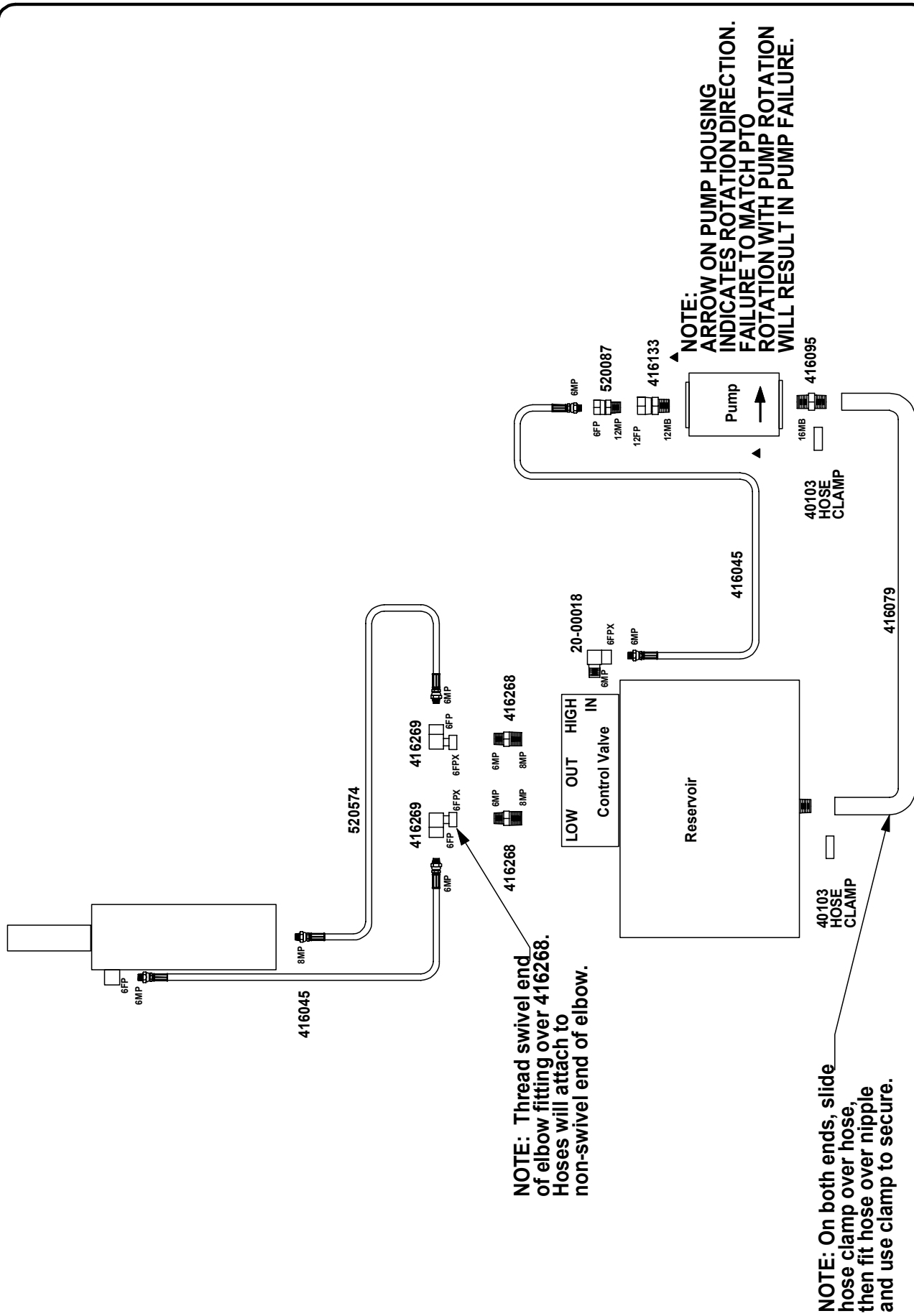
DATE

3-2-06C

SUPERCEDES

10-6-05B

416811



	TITLE		SPDG HOSE CONNECTION DIAGRAM		SECTION
	VC520, VC620		DATE	4-15-04B	-
			SUPERSEDES	2-24-04A	520573

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
WILLIAMS PTO WARNING

-

DATE
7-13-98

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.

$6" + 5" = 11" \text{ min.}$

- 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

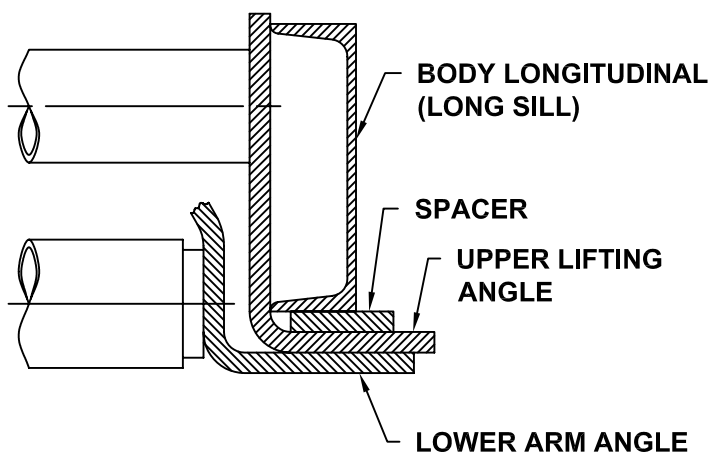
H200

620114

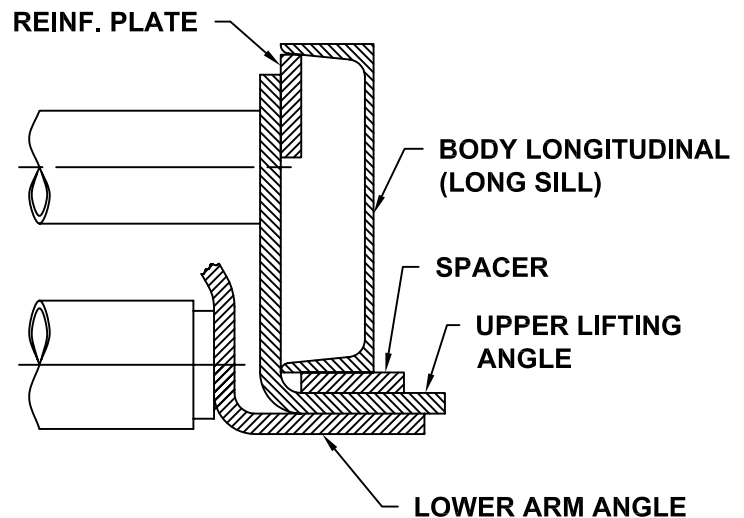
IMPORTANT!

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.

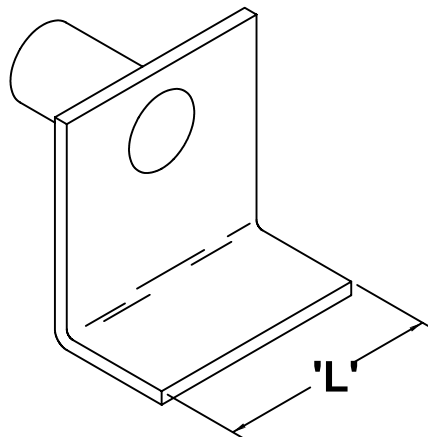
SITUATION A: LIFTING ANGLE FULLY ENVELOPS BODY LONG SILL.

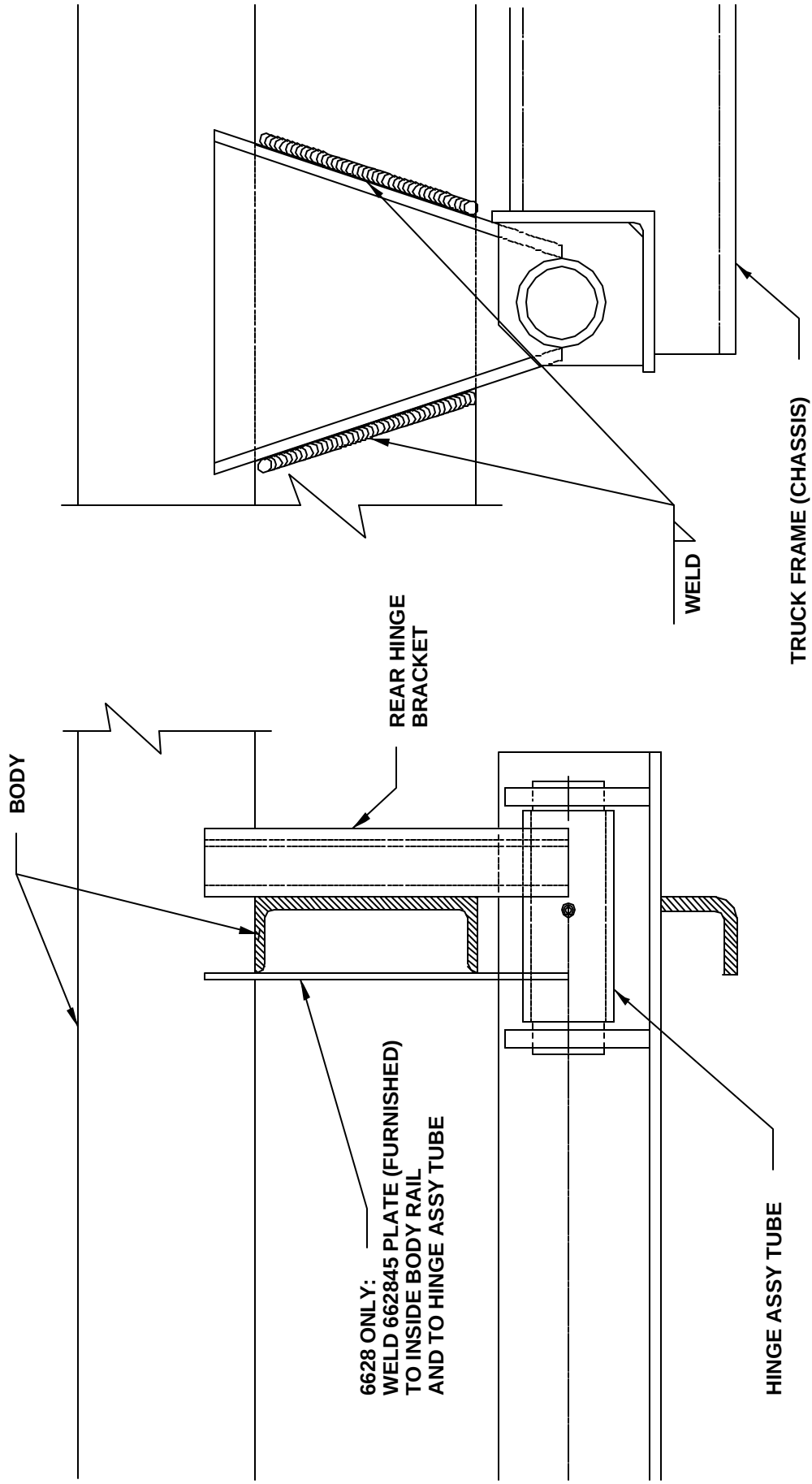


SITUATION B: LIFTING ANGLE DOES NOT ENVELOP BODY LONG SILL AND A REINFORCEMENT PLATE IS REQUIRED.



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





TITLE
REAR HINGE TO BED MTG. INSTR.
VC 520 - VC 6628

DATE
6-28-97A

SUPERSEDES
10-23-97

SECTION
H200

662861

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
Step 1 Attach base-end hose to cylinder. Do NOT attach the Rod-end hose at this time.	YES	YES	YES	YES	YES	YES	YES
Step 2 Fill the hydraulic reservoir as recommended below. 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
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)	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

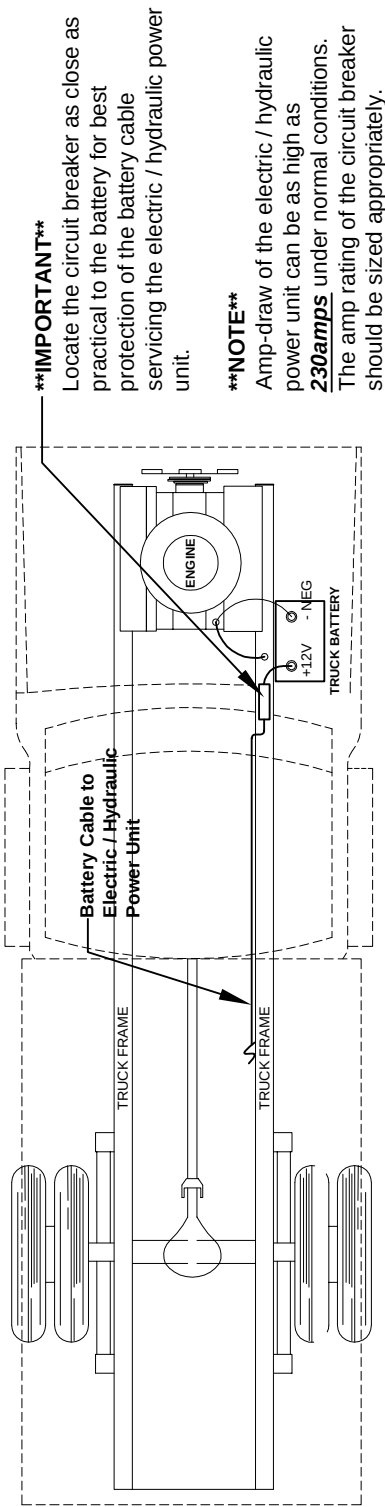
SUPERSEDES

6-18-03B

416140

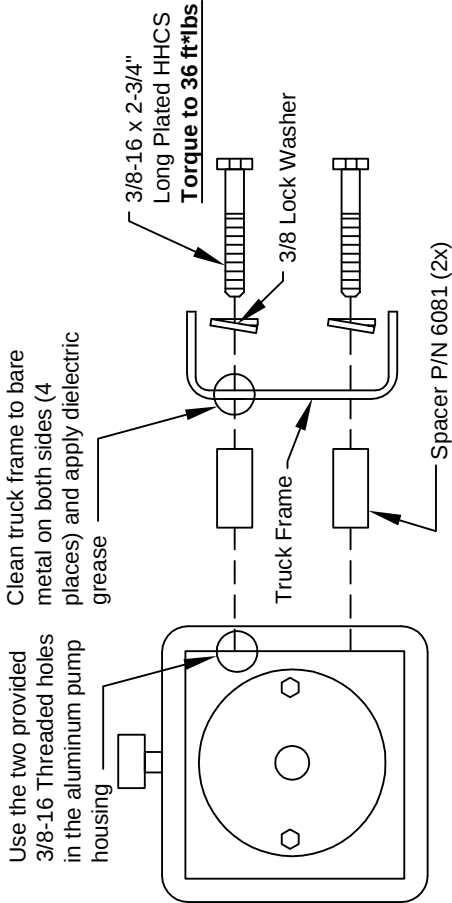
ELECTRICAL CONNECTIONS - HYDRAULIC POWER UNITS

+12 Volt Power Connection:



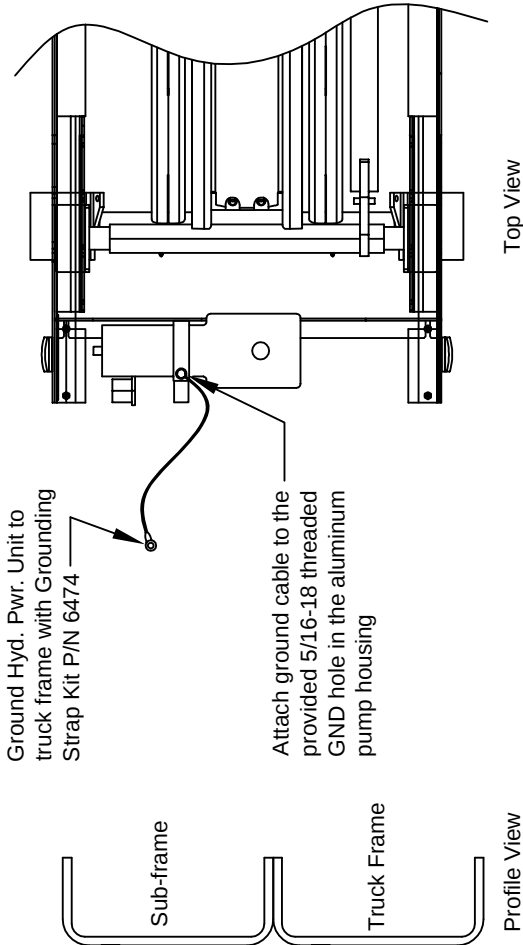
Grounding: Hydraulic power units WILL run with a poor ground connection, BUT the service life of the motor and control valve coils WILL be greatly reduced unless a proper ground connection is made - see illustrations below.

Non Sub-frame Grounding



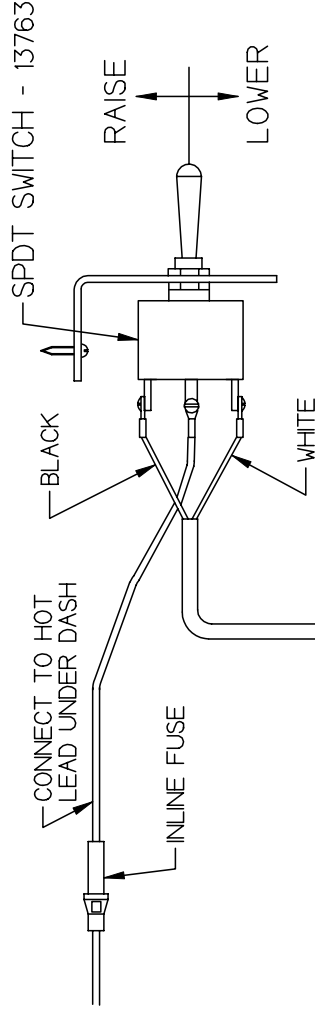
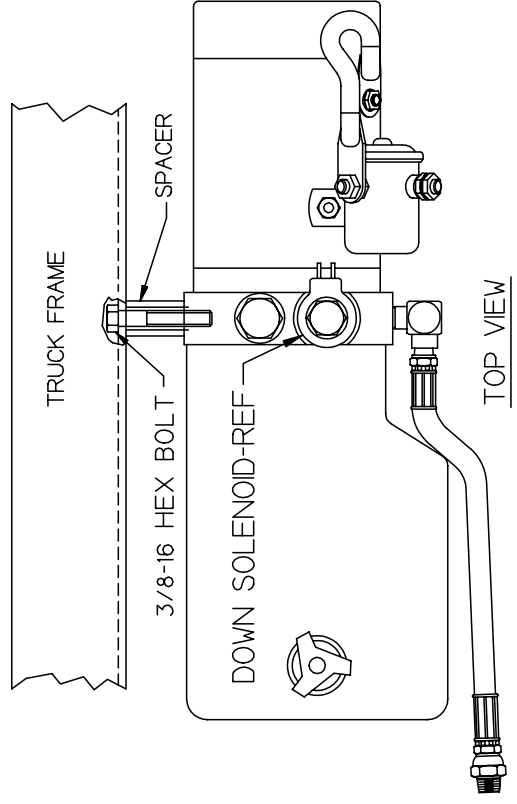
DO NOT APPLY THREAD LOCK LIQUIDS TO BOLT THREADS, AS THEY WILL INSULATE THE BOLTS FROM THE ALUMINUM PUMP HOUSING.

Sub-frame Grounding

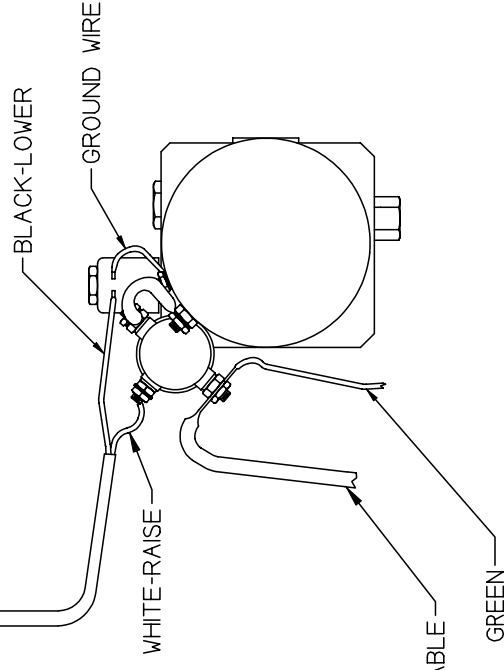
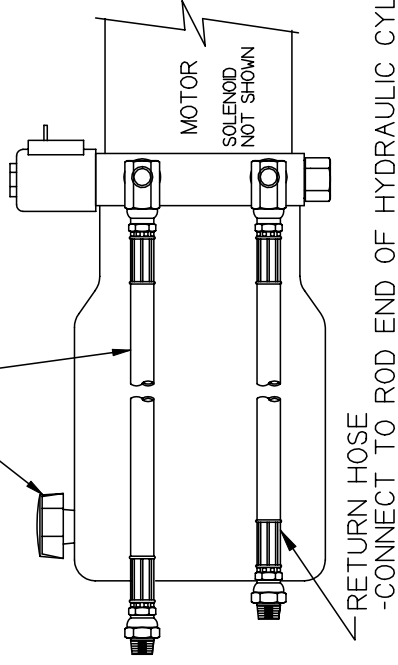


 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO		TITLE	DATE	SECTION
		ELECTRICAL CONNECTIONS - HYD PWR UNITS	09-23-20D	-
		ALL ELECTRIC HOIST APPLICATIONS	SUPERSEDES 06-16-20C	6368

* IF SPACERS ARE NOT USED USE 1" LG. BOLTS



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



SINGLE ACTING POWER UNIT
-POWER UP/GRAVITY DOWN

NOTE: BE SURE POWER UNIT HAS
GROUND TO TRUCK FRAME.
SEE DRAWING 40058-HD
FOR PARTS & HYDRAULIC
SCHEMATIC.

VENCO MANUFACTURING, INC.

TITLE
PLUMBING & WIRING DIAGRAM

DATE
6-18-03

SECTION
H200

FENNER ES POWER UNIT 40058-HD

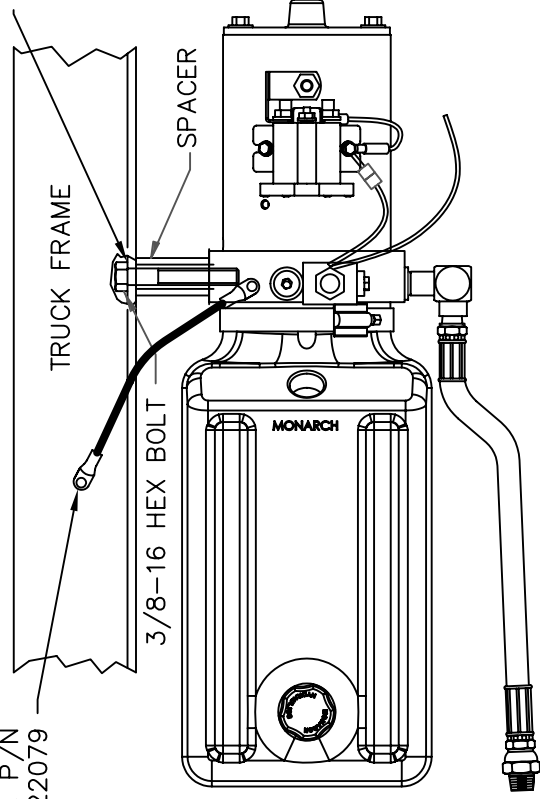
SUPERSEDES
-

620123

40058M

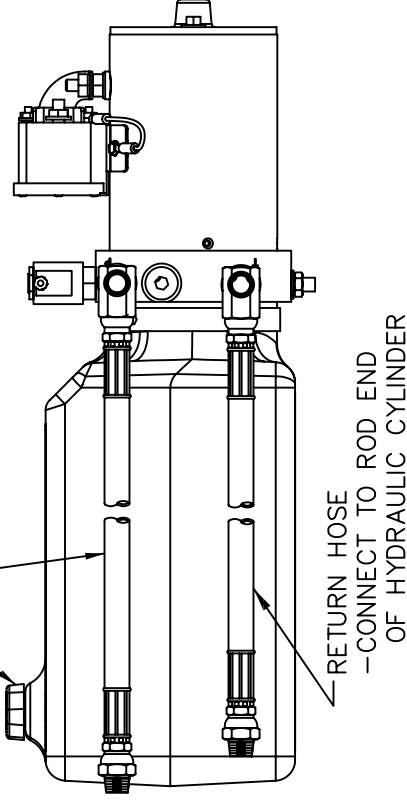
▲ OPTIONAL
GROUND STRAP
ASSY. P/N
22079

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

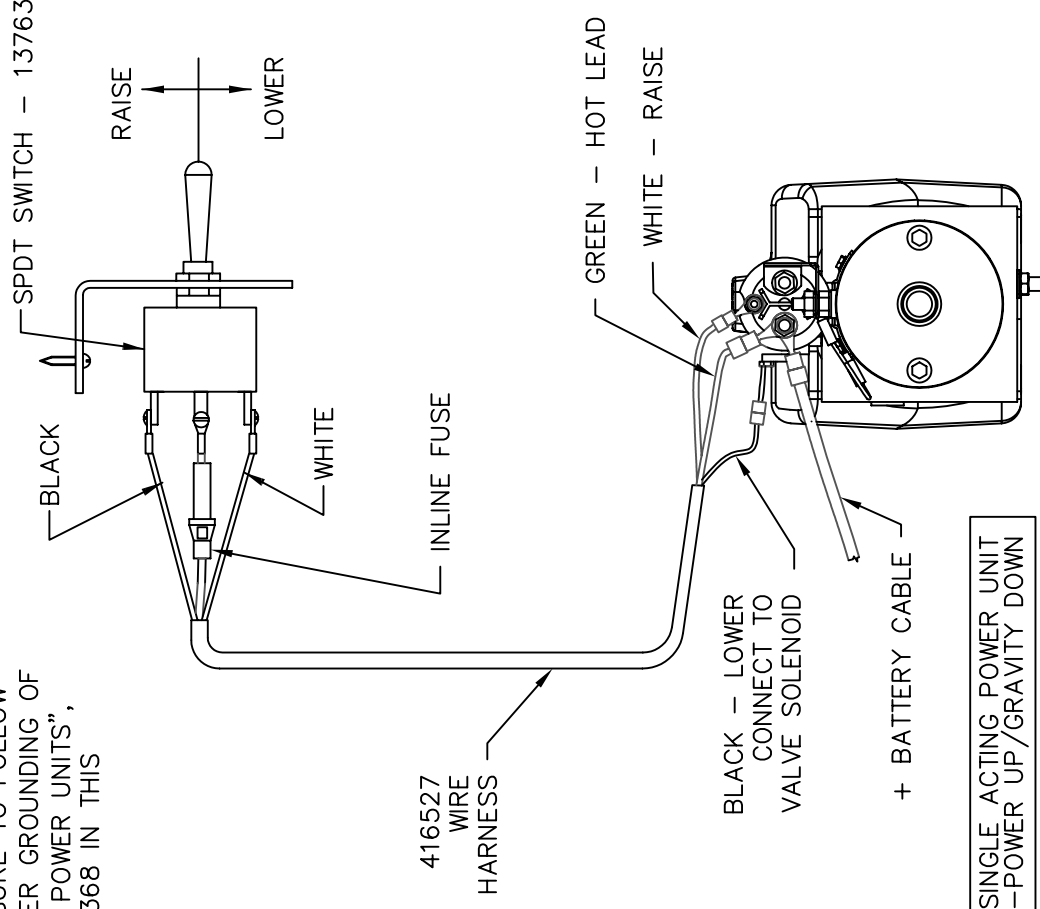


TOP VIEW

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



TITLE
40058M / 40058MHD POWER UNIT

DATE
6-6-05A

SECTION
H200

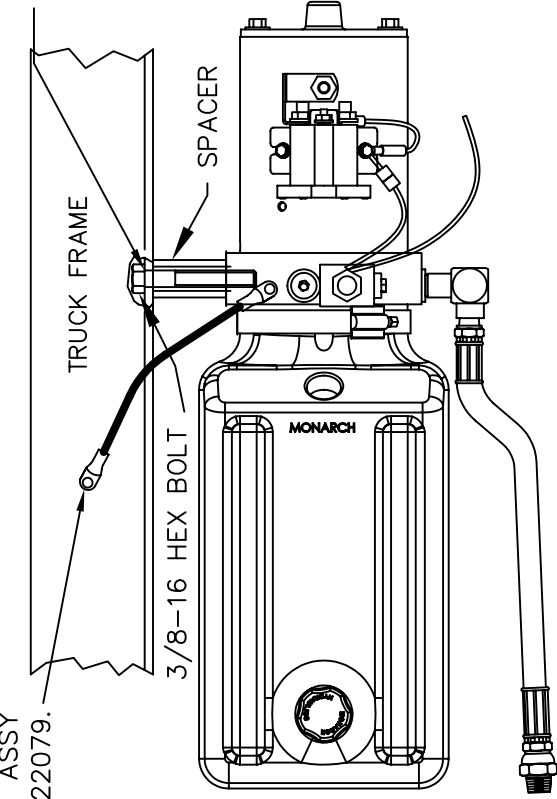
VC416/516/520/620/628

SUPERSEDES
12-2-04

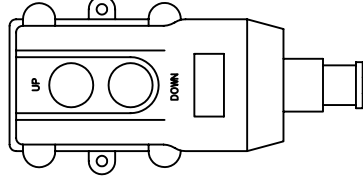
416810

40058M WITH MONARCH PUSH BUTTON CONTROL

▲ OPTIONAL
GROUNDING
STRAP ASSY
P/N 22079.



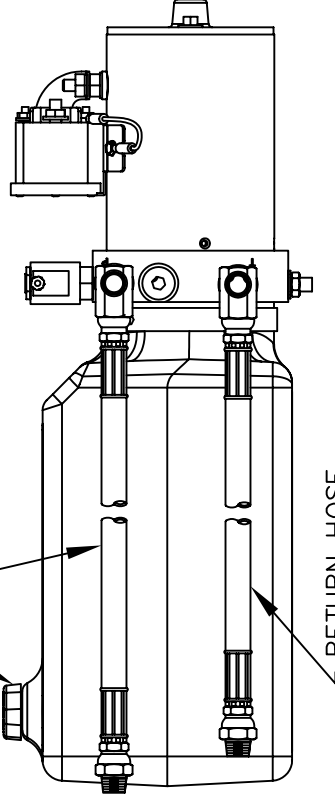
▲ NOTE: BE SURE TO FOLLOW
THE "PROPER GROUNDING
OF HYDRAULIC POWER
UNITS", DRAWING # 6368,
IN THIS MANUAL.



TOP VIEW

BREATHER/FILL - REF

PRESSURE HOSE - CONNECT TO BASE END
OF HYDRAULIC CYLINDER

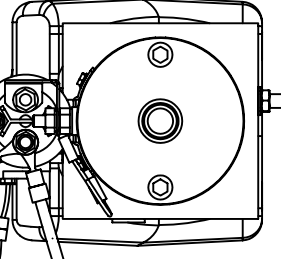


SIDE VIEW

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

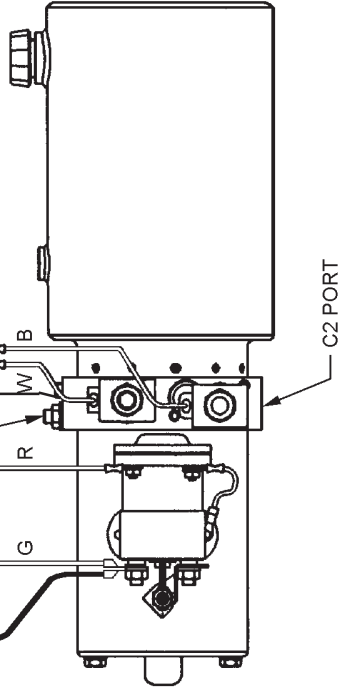
▲ TRUCK FRAME

GROUNDING STRAP
#4 GAGE BLACK

C1 PORT

TO BATTERY
POST

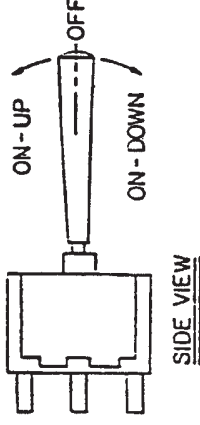
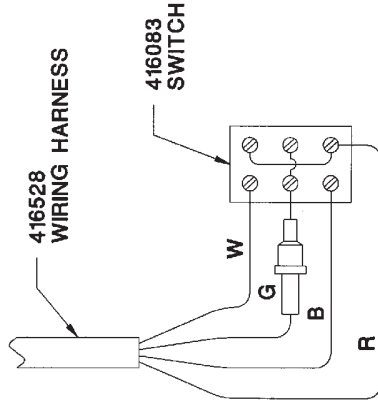
TO CAB



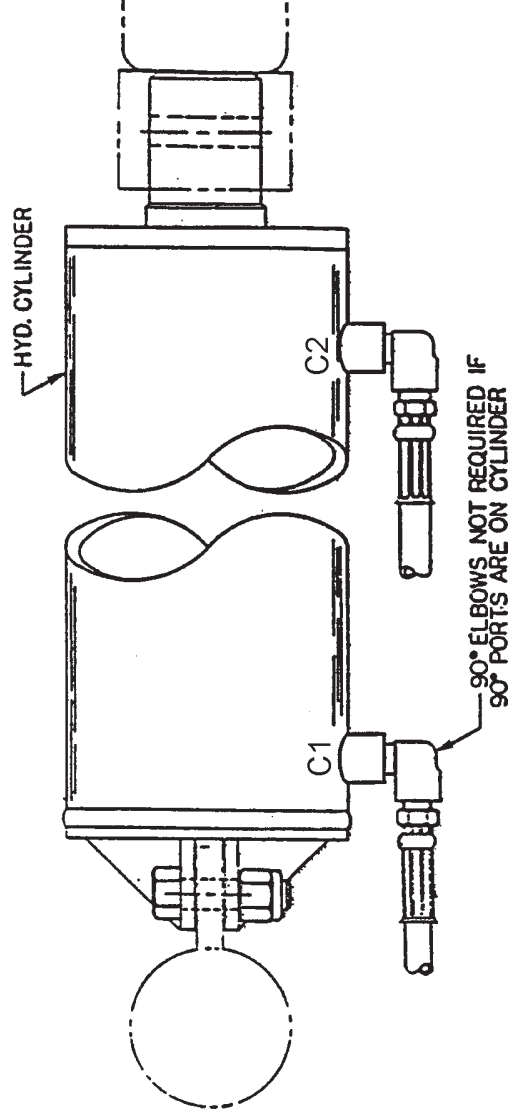
416081M

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



VENCO MANUFACTURING, INC.

TITLE
416081 ED POWER UNIT

VC416/516, VC520/620

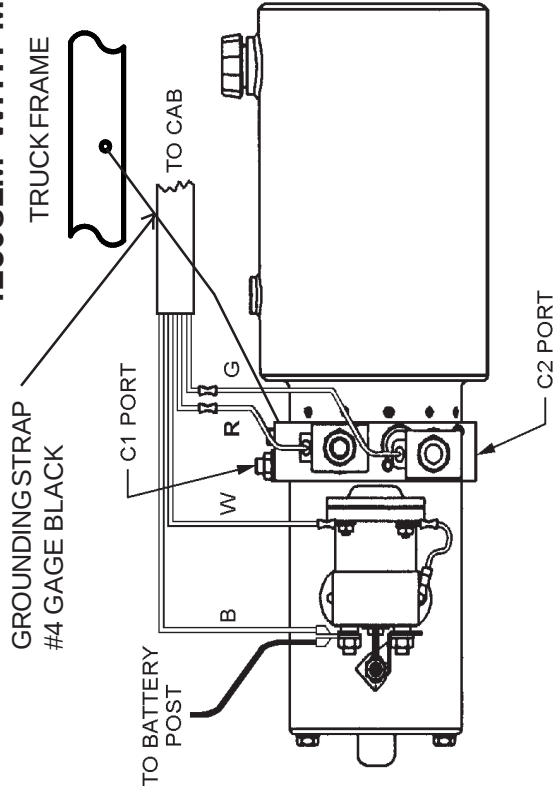
DATE
12-1-04D

SECTION
-

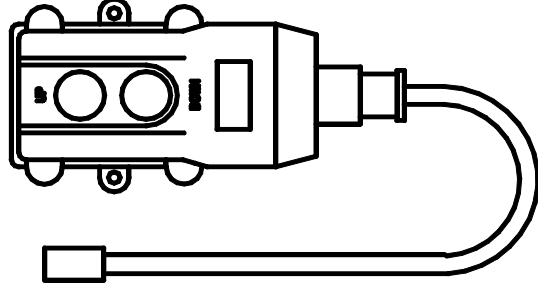
SUPERCEDES
2-15-99C

416306

416081M WITH MONARCH PUSH BUTTON CONTROL

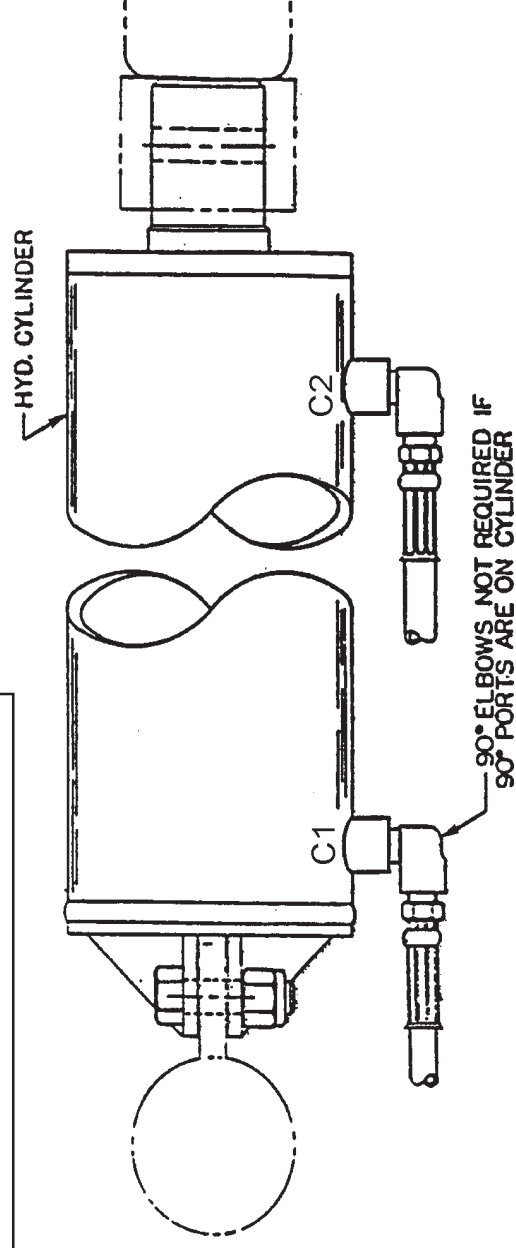


ELECTRICAL	
W - WHITE WIRE	
B - BLACK WIRE	
G - GREEN WIRE	
R - RED WIRE	



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	
VC416/516, VC520/620	

DATE	
4-20-05F	
SUPERCEDES	
12-1-04E	
SECTION	
-	
416307	

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.



MANUFACTURING, INC.

TITLE

MAINT. & OPER. INSTR.

DATE

9-4-97A

SECTION

H200

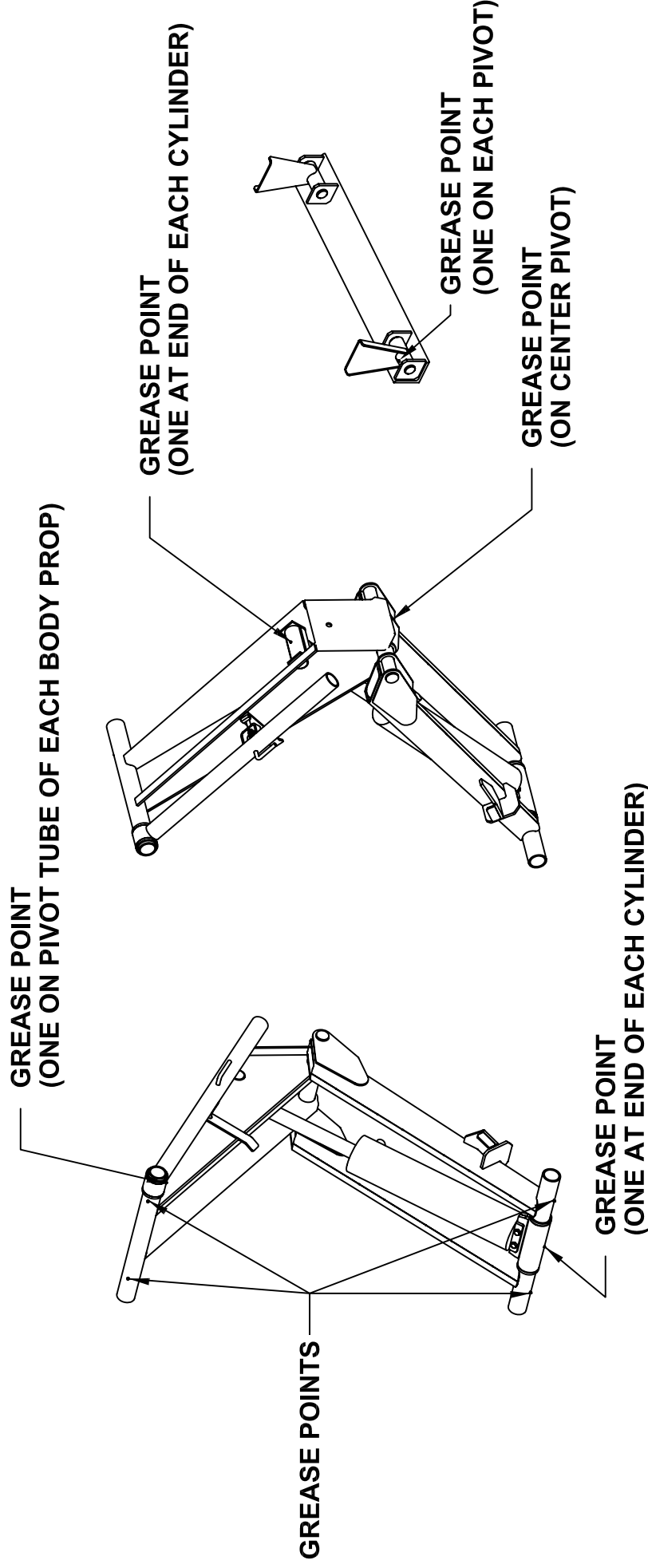
VC 520 - VC 6628

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.

 Venco [®] MANUFACTURING, INC.	TITLE GREASE POINTS FOR HOISTS	DATE 3-11-05A	SECTION -
	VC416/516/520/620/628/5520/6620/6628	SUPPERSEDES 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.



MANUFACTURING, INC.

TITLE

BODY PROP INSTR.

DATE

5-24-02C

SECTION

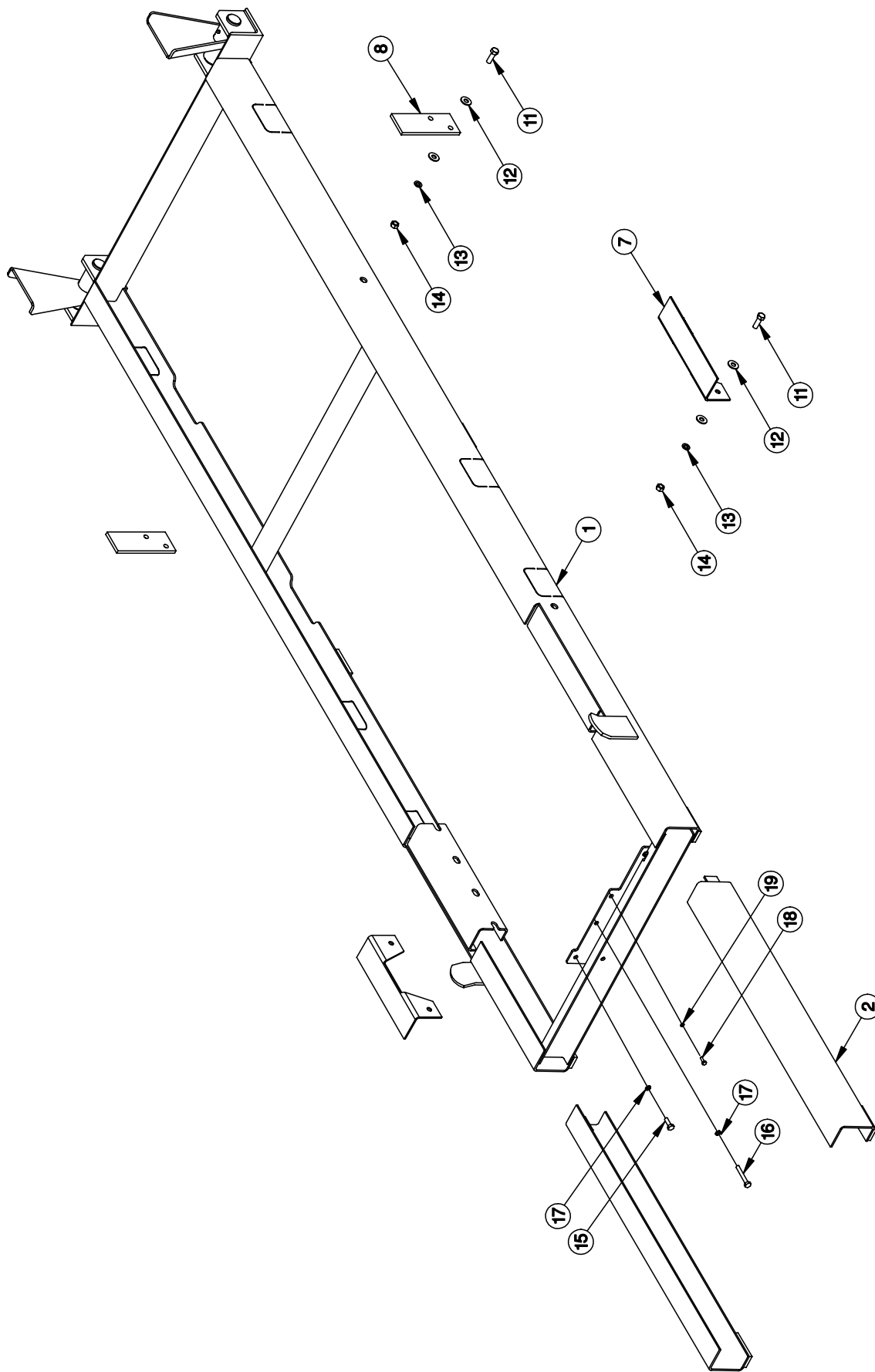
H200

VC 520 - VC 6628

SUPERCEDES

5-6-01B

520081



REPLACEMENT PARTS LIST REF 620116

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

VC 620 WITH SUBFRAME REPLACEMENT PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	520590	1	SUBFRAME WELDED ASSEMBLY
2	520588	-	SUBFRAME EXTENSION KIT (OPTIONAL)
3	-	-	-
4	-	-	-
5	-	-	-
6	-	-	-
7	520531	2	FRAME MOUNTING ANGLE
8	520532	2	BRACKET - FRAME TIE DOWN
9	* 520533	1	PRESSURE HOSE - MALE 5' X 3/8"
10	* 416045	1	RETURN HOSE - MALE 7' X 3/8"
11	!HHCS05013150	4	HEX HEAD CAP SCREW - 1/2"-13 x 1-1/2" LG.
12	!FWSH-050	8	FLAT WASHER - 1/2"
13	!LWSH-050	4	LOCK WASHER - 1/2"
14	!HNUT-05013	4	HEX NUT - 1/2"-13
15	!HHCS03816075	1	HEX HEAD CAP SCREW - 3/8"-16 x 3/4" LG.
16	!HHCS03816200	1	HEX HEAD CAP SCREW - 3/8"-16 x 2" LG.
17	!LWSH-038	2	LOCK WASHER - 3/8"
18	!HHCS02520075	1	HEX HEAD CAP SCREW - 1/4"-20 x 3/4" LG. (ES ONLY)
19	!LWSH-025	1	LOCK WASHER - 1/4" (ES ONLY)
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-

* ITEM NOT SHOWN ON DRAWING

REPLACEMENT PARTS DWG REF 620115



MANUFACTURING, INC.

TITLE

REPL. PARTS LIST

DATE

6-17-03

SECTION

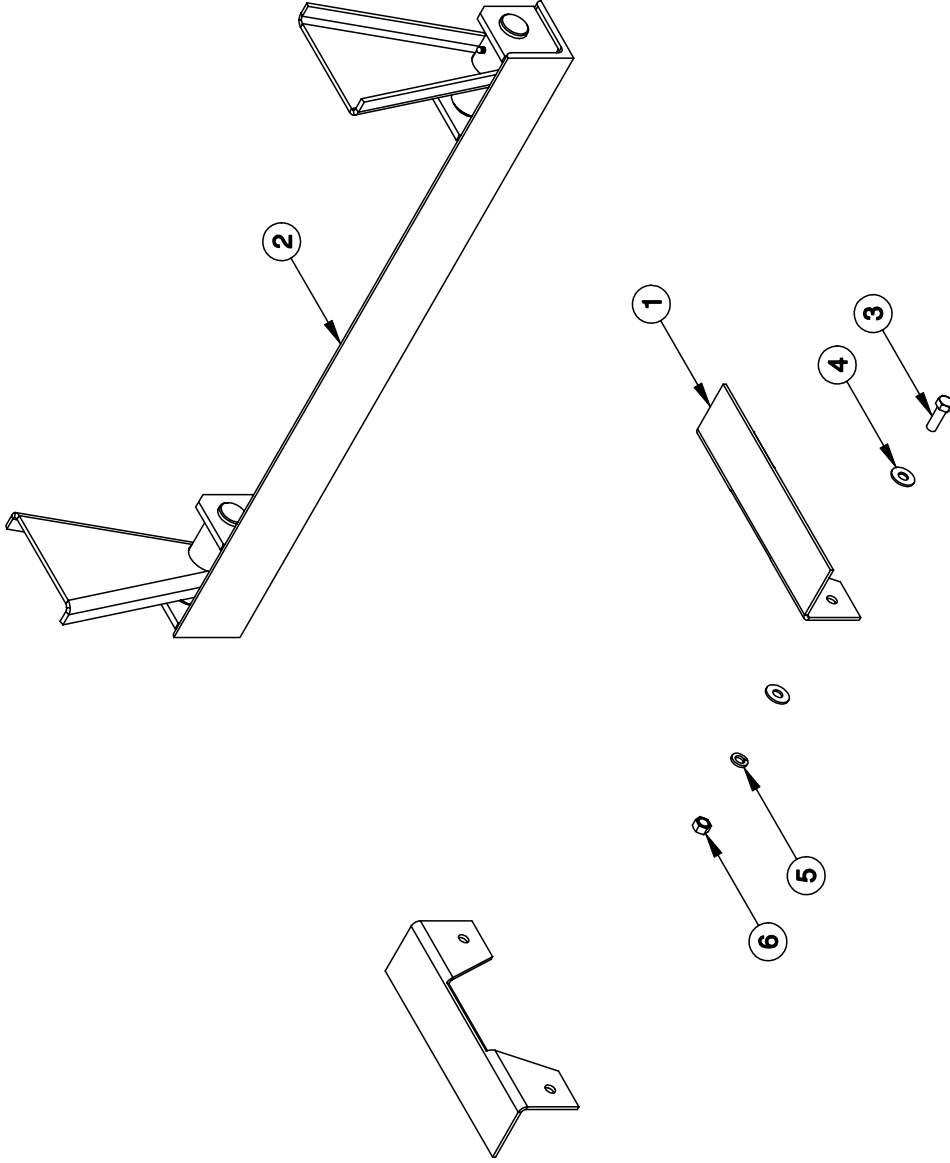
H200

VC 620 WITH SUBFRAME

SUPERCEDES

-

620116



REPLACEMENT PARTS LIST REF 620118

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

VC620 (NON-SUBFRAME) REPLACEMENT PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	520531	2	FRAME MOUNTING ANGLE
2	662057	1	REAR HINGE ASSEMBLY
3	!HHCS05013150	4	HEX HEAD CAP SCREW - 1/2"-13 x 1-1/2" LG.
4	!FWSH-050	8	FLAT WASHER - 1/2"
5	!LWSH-050	4	LOCKWASHER - 1/2"
6	!HNUT-05013	4	HEX NUT - 1/2-13
7	* 520533	1	PRESSURE HOSE - MALE 5' X 3/8"
8	* 416045	1	RETURN HOSE - MALE 7' X 3/8"
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	-	-	-

* ITEM NOT SHOWN ON DRAWING

REPLACEMENT PARTS DWG REF 620117



MANUFACTURING, INC.

TITLE

REPL. PARTS LIST

DATE

6-17-03

SECTION

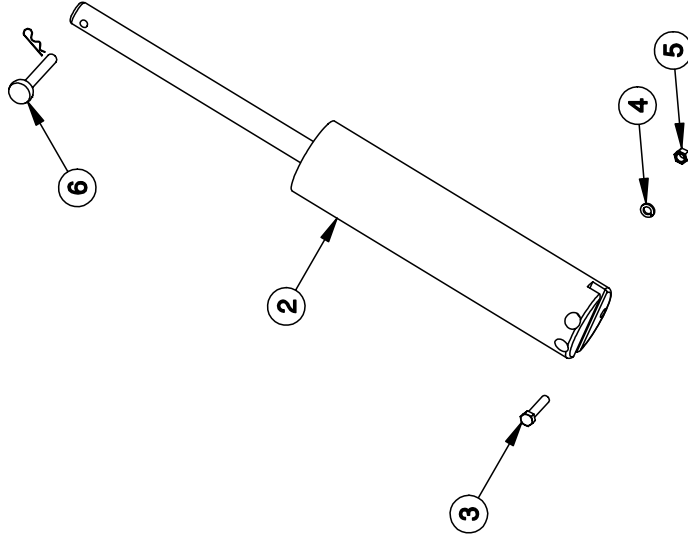
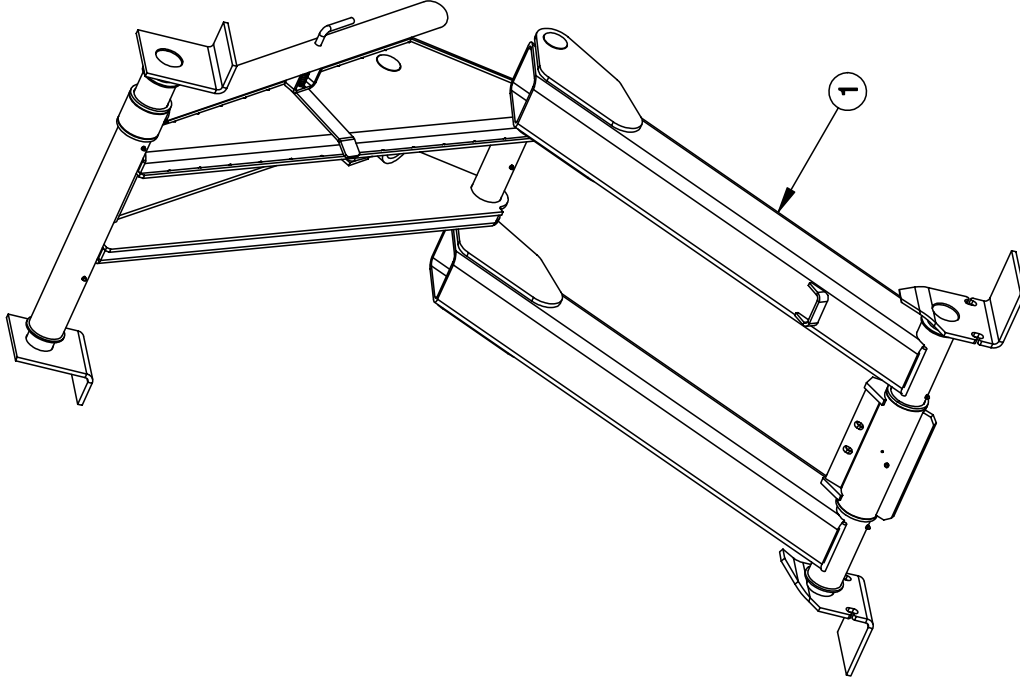
H200

VC 620 (NON-SUBFRAME)

SUPERCEDES

-

620118



REPLACEMENT PARTS LIST REF 620120

 VENCO MANUFACTURING, INC.	TITLE		SECTION
	REPLACEMENT PARTS DRAWING		H200
	VC 620	DATE 6-17-03 SUPERSEDES .	620119

620119**REPLACEMENT PARTS LIST**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	620203	1	SCISSORS ASSEMBLY
2	620207	1	HYDRAULIC CYLINDER
3	!HHCS05013275-8	2	HEX HEAD CAP SCREW - 1/2"-13 x 2-3/4" LG. GR 8
4	!LWSH-050	2	LOCK WASHER - 1/2"
5	!HNUT-05013	2	HEX NUT 1/2" - 13
6	416545	1	5/8 X 3-1/2 CLEVIS PIN ASSEMBLY
7	-	-	-
8	-	-	-
9	-	-	-
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
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26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-

REPLACEMENT PARTS DWG REF 620119



MANUFACTURING, INC.

TITLE

REPL. PARTS LIST

DATE

6-17-03

SECTION

H200

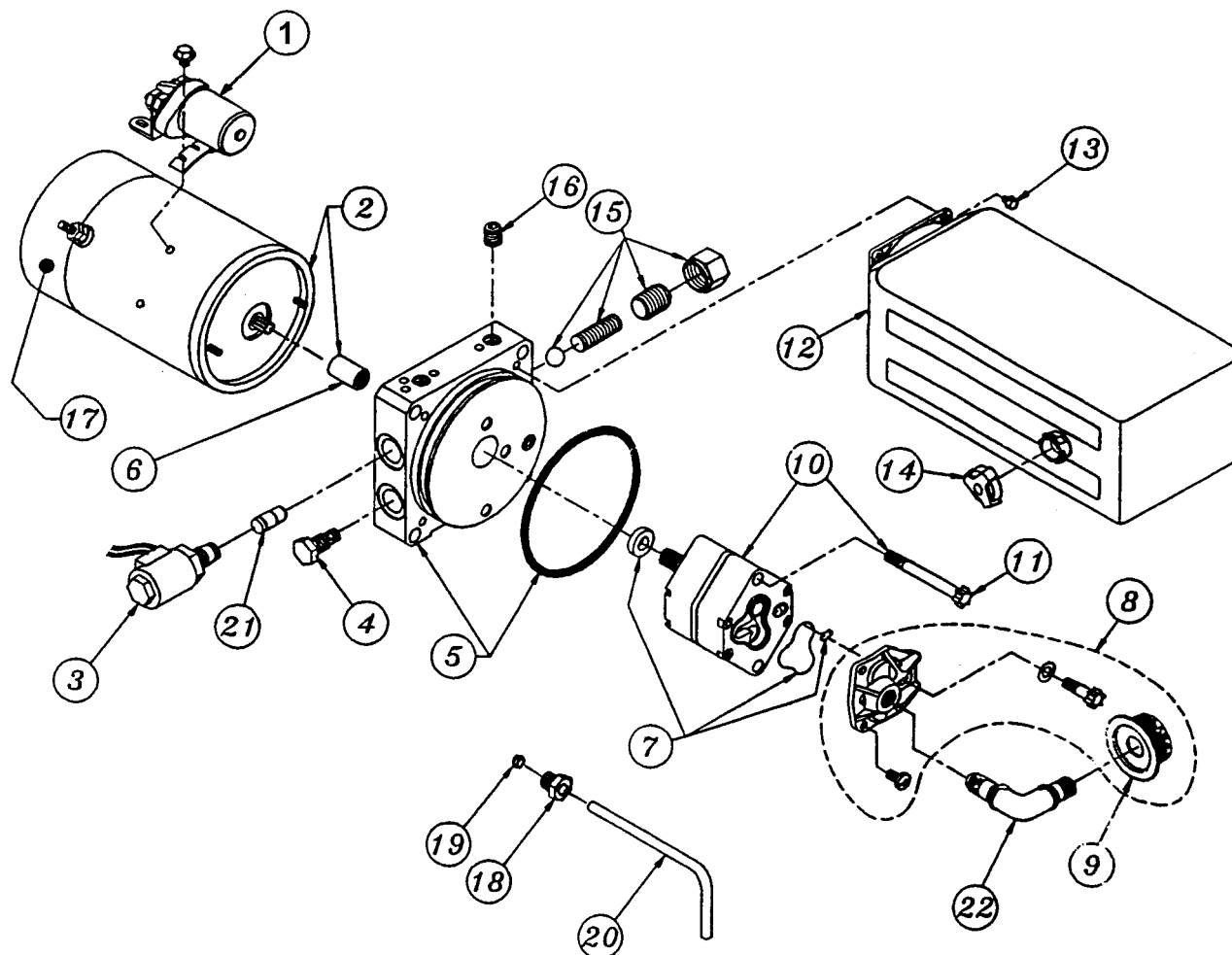
VC 620

SUPERCEDES

-

620120

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	8080-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

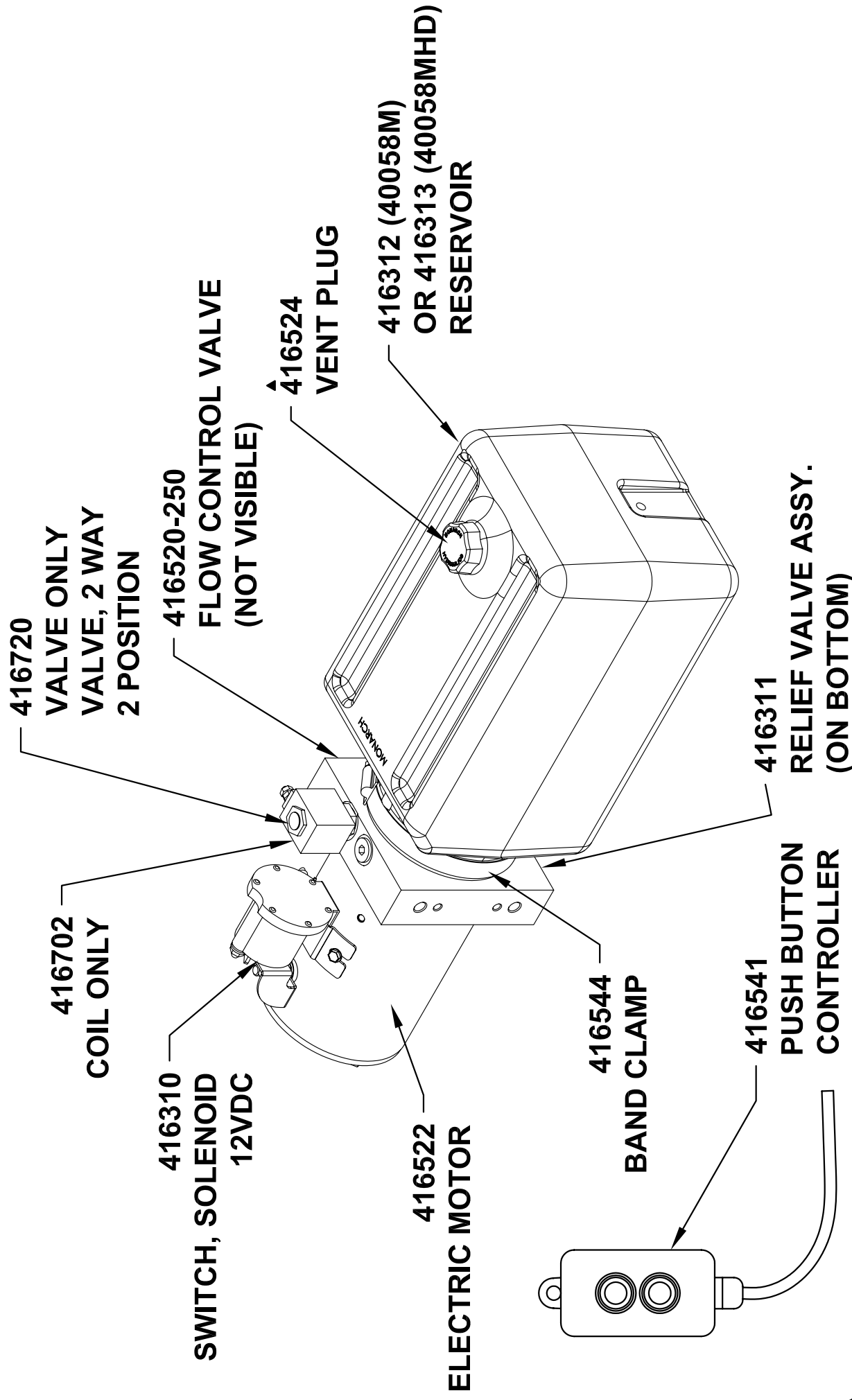
DATE
12-3-98

SUPERCEDES
-

SECTION
H400

40058-HD

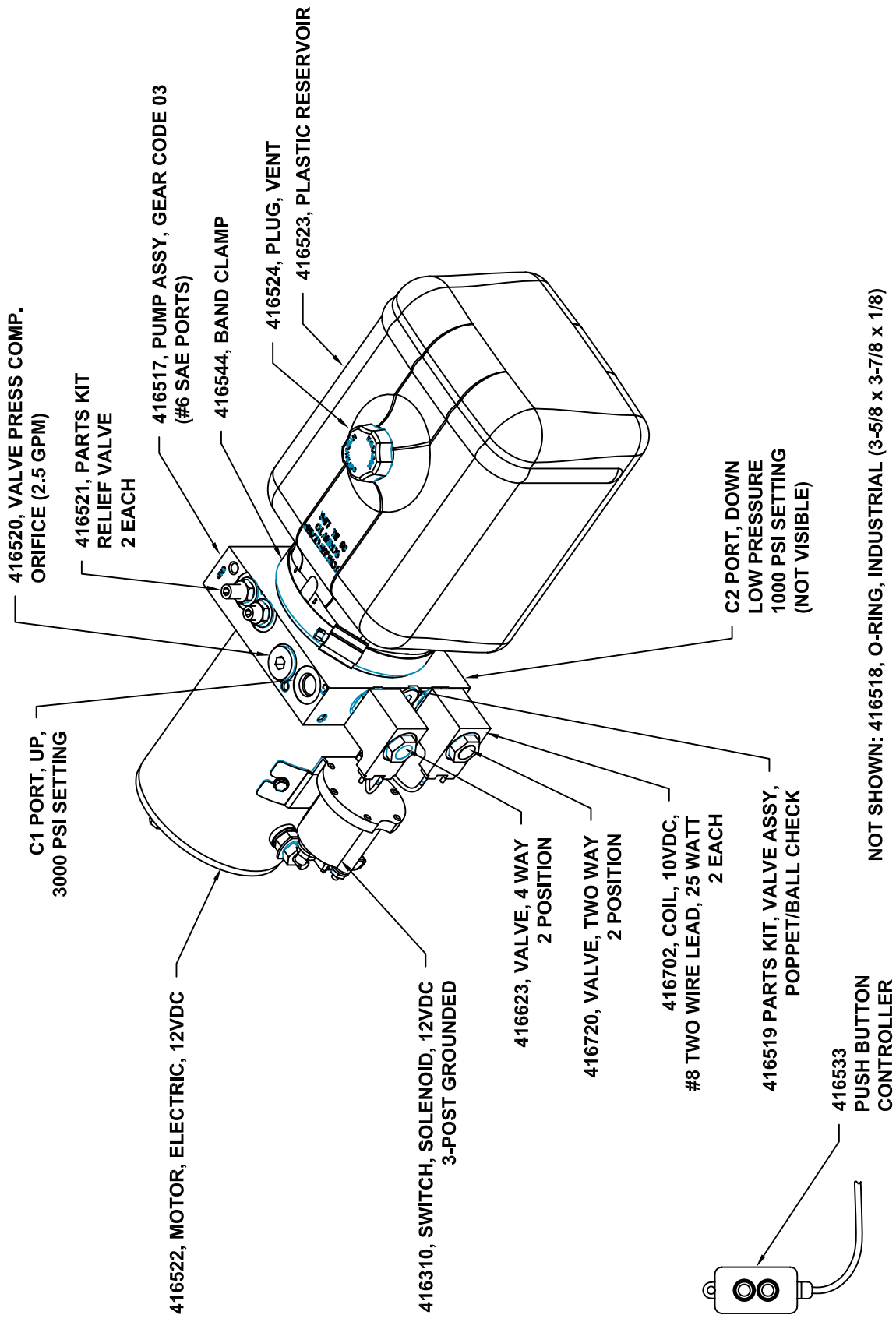
REPLACEMENT PARTS 40058M & 40058MHD



 VENCO MANUFACTURING, INC.	TITLE		PARTS LIST & DRAWING	
	DATE	12-18-06D	SECTION	-
	SUPERSEDES	12-11-06C		416308

40058M & 40058MHD POWER UNITS

REPLACEMENT PARTS 416081M



MANUFACTURING, INC.

TITLE

REPLACEMENT PARTS DRAWING

SECTION

-

DATE

12-11-06E

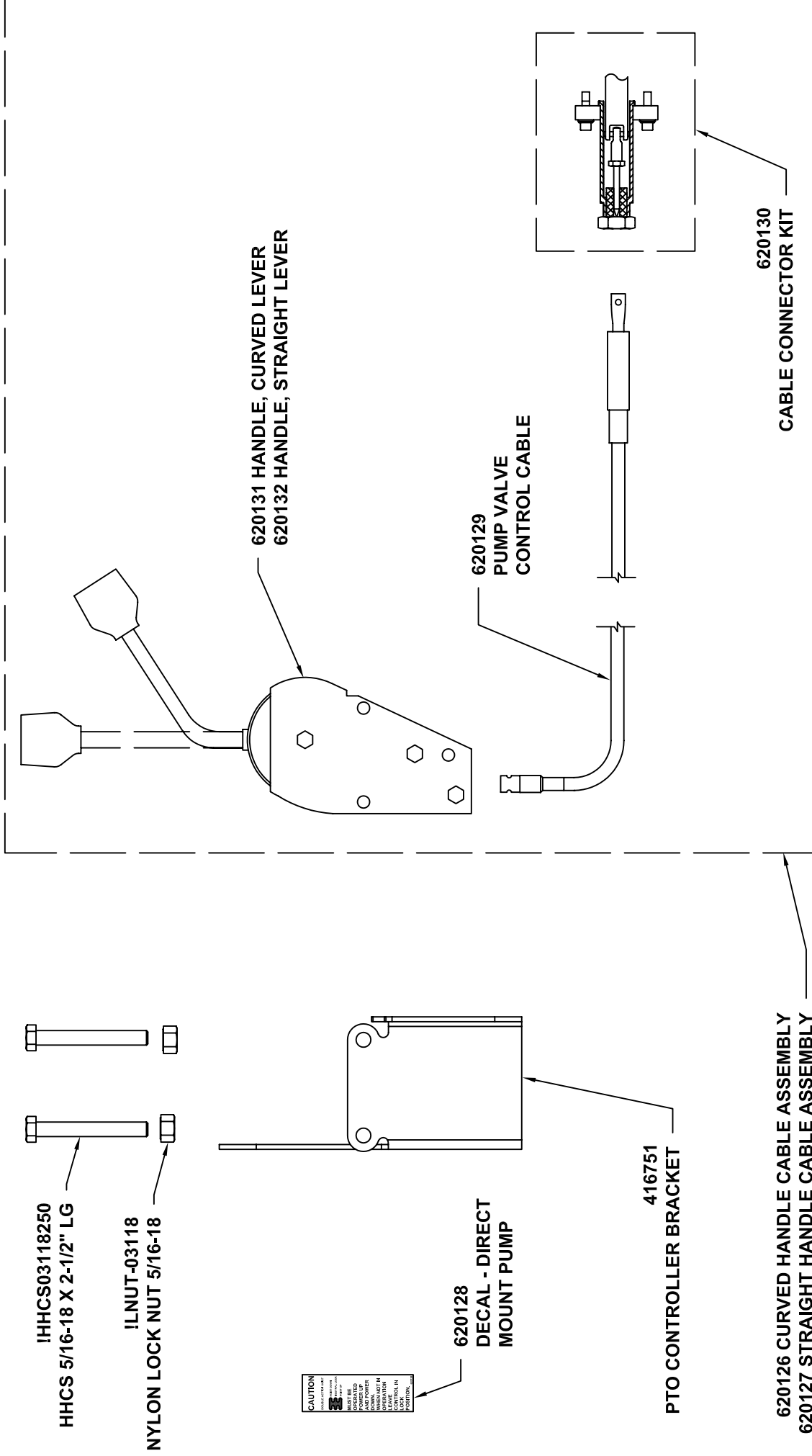
SUPERSEDES

7-27-05D

416081M POWER UNIT

416508

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



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

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