

VP/VC6600

INSTALLATION & OWNER'S MANUAL

Sold and Serviced by:

TABLE OF CONTENTS VP / VC 6600 MANUAL

PAGE	DESCRIPTION	REF. NO.
1	SPECIFICATIONS / OVERVIEW	6622
2	INSTALLATION - PICKUP BOX AND COMPONENT INSTALLATION	6623
3	INSTALLATION - LONGITUDINAL & UPPER REAR HINGE	6624
4	INSTALLATION - LONGITUDINAL & UPPER NEST	6625
5	INSTALLATION - LOWER REAR HINGE	6629
6	INSTALLATION - REPOSITIONING OF MUFFLER HANGER	6630
7	INSTALLATION - HOIST SCISSOR PIVOT TO TRUCK FRAME	6631
8	INSTALLATION - GAS FILLER MOD. & HYD. PWR. UNIT	6632
9	INSTALLATION - HYD. PWR. UNIT CONT. & PICKUP BOX	6633
10	INSTALLATION - PICKUP BOX CONTINUED	6634
11	INSTALLATION - PICKUP BOX CONT. & BUMPER MODIFICATION	6635
12	INSTALLATION - BUMPER MOD. PART 1 OF 3	6626
13	INSTALLATION - BUMPER MOD. PART 2 OF 3	6627
14	INSTALLATION - BUMPER MOD. PART 3 OF 3	6628
15	INSTALLATION - BUMPER MOD COMPLETION PHOTOS	6636
16	RESERVOIR FILLING	416140
17	HYDRAULIC POWER UNIT - PROPER GROUNDING	6368
18	6425 ED POWER UNIT W / PUSH BUTTON CONTROLLER	6500
19	6426 ES POWER UNIT W / PUSH BUTTON CONTROLLER	6507
20	LUBRICATION & SERVICE CHART	40260
21	VC LIFT SHAFT INSTALLATION	6144
22	CONTRACTOR UPPER HINGE ASSEMBLY	6142
23	REPLACEMENT PARTS DRAWING - HOIST	6177
24	REPLACEMENT PARTS LIST - HOIST	6178
25	REPLACEMENT PARTS DRAWING - ED POWER UNIT	6482
26	REPLACEMENT PARTS LIST - ES POWER UNIT	6508
27	WARRANTY PAGE	12-00073

TABLE OF	CONTENTS

VC/VP 6600

SECTION

SUPERSEDES

-

VC/VP 6600 SPECIFICATIONS OVERVIEW

<u>VP 6600</u> Designed for 2012 and newer Chevrolet Silverado and GMC Sierra pickup truck frame using the original pickup box.

Note: Longitudinal Bed supports are standard equipment and 'must' be used to add support to the Bed (pickup box).

Note: ½ ton and some ¾ ton trucks may require overload / helper springs to keep the hoist from being too low.

<u>VC 6600</u> Designed for 2012 and newer Chevrolet Silerado and GMC Sierra pickup truck frame using a contractor bed (not using a pickup box).

HYDRAULIC POWER UNITS:

ES = Electric (12 VDC) Single-acting hydraulic power unit (power up and gravity down). ED = Electric (12 VDC) Double-action hydraulic power unit (power up and power down).

SPECIFICATIONS:

Weight (installed) = 345 lbs (ES/ED)

Cylinder Bore = 3-1/2" Cylinder Stroke = 17-3/8"

Operation Pressure = 2800 psi "UP" (ES/ED) and 650 psi "DOWN" (ED only)

Capacity:

VP 6600 = 6000 lbs (limited by the maximum pickup bed capacity)

VC 6600 = Refer to Chart below:

PLATFORM AND DUMP APPLICATIONS				
LENGTH	CA	OVERHANG	CAPACITY AT 45º	
7'	56"	0"	3.1 TONS	
8'	56"	10"	3.4 TONS	
9'	56"	22"	4.1 TONS	

NOTE: Cab to axle dimensions may differ resulting in a change in the capacities shown.

NOTE: Capacities include weight of body, which must be deducted to determine payload.

CAUTION: Weight of chassis combined with weight of body, hoist and payload cannot

exceed GVWR or GAWR of truck.

IMPORTANT: THE 'RECEIVER HITCH' (IF INSTALLED) CAN 'NOT' BE USED IN CONJUNCTION WITH

THE PIVOTING BUMPER ASSEMBLY.

IMPORTANT: To avoid costly delays in installation and improper operation, read and understand this manual

before proceeding. Any questions call 1-800-226-2238.

WARNING: Whenever work or maintenance is performed on a truck under a raised body, always remember to

install the safety prop (P/N 6495) or another safe method to avoid injury should the body

inadvertently fall.

WARNING: To prevent damage to the truck's electrical system, disconnect the positive battery cable and

alternator when arc welding on the truck.

VENCO	MANUFACTURING, INC.

VC / VP 6600	SUPERSEDES	6622
SPECIFICATIONS	5-7-12	-
TITLE	DATE	SECTION

Thank you for choosing the Venco VC/VP 6600 hoist! It has been specifically engineered to fit the 2012(and newer) Chevrolet Silverado and GMC Sierra Pickups. The installation is essentially bolt-on and requires no special tools or welding equipment.

We encourage your feedback on how we can make the product easier to install and how to make this manual more useful and easier to understand.

The installation of the hoist is broken up into two sections. The first section covers the installation of components, which mount on the truck bed (pickup box) and the second section covers the components which mount directly to the truck.

IMPORTANT: THE 'RECEIVER HITCH' (IF INSTALLED) CAN 'NOT' BE USED IN CONJUNCTION WITH THE PIVOTING BUMPER ASSEMBLY.

PICKUP BOX (TRUCK BED) REMOVAL AND COMPONENT INSTALLATION

1. Box Removal

- a. Remove pickup bumper and set aside for later modification (stow all frame-mounted electrical connections clear of the pickup box).
- b. Disconnect gas filler neck assembly from the pickup box and seal the neck to prevent the escape of gas vapor. Cover gas tank(s) and filler neck(s) with a welding heat blanket/shield material before proceeding.
- c. Remove eight (8) bed bolts from the pickup box(save these bed bolts for reinstallation; later in this manual).
- d. Remove the truck bed (pickup box) from the chassis and position it in one of two ways: upright with the cab side towards the ground and the bumper towards the ceiling or upside down with the pickup box on its 'back'.
- e. Remove the Lower Receiver Hitch. NOTE: THE RECEIVER HITCH ASSEMBLY CANNOT BE USED IN CONJUNCTION WITH THIS HOIST CONVERSION; THE RECEIVER HITCH WOULD INTERFERE WITH THE MOVEMENT OF THE 'PIVOTING BUMPER'.

2. Longitudinal Supports, Upper Rear Hinge and Upper Nest Installation

a. Install the four (4) extruded u-nuts (P/N 6468; Hardware Kit P/N 6459) onto the ends of the truck bed crossmembers - see figures 1 and 2 for more detail. Refer to Fig's 1 & 2 below.



Fig 1 U-nuts



Fig 2 U-nut Installation



2. Longitudinal Supports, Upper Rear Hinge and Upper Nest Installation - Continued

- b. Position the 'driver's side' longitudinal support (P/N 6603-1) onto the truck bed with the gusset towards the back of the truck bed and with the gusset facing 'inboard' see Fig's 3, 3.5 and 4.0 below.
- c. Next, install 'three' of the 'four' fasteners leaving the fastener closest to the rear gusset uninstalled.
- d. Install the 'driver side' Upper Rear Hinge Assy with two of the original metric bed bolts. The Upper Rear Hinges overlap the longitudinal support; leave these two fasteners loose until the truck bed is reinstalled onto the chassis Lower Rear Hinges later in this manual. See Fig 4.5 below.

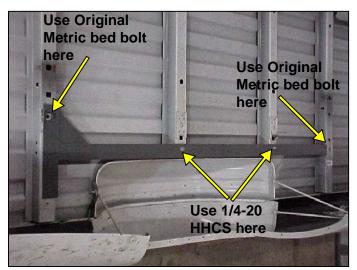


Fig 3 Longitudinal Installation

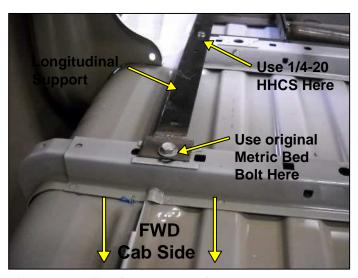


Fig 4.0 Longitudinal Installation

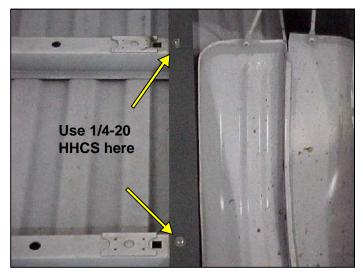


Fig 3.5 - Longitudinal Installation



Fig 4.5 Upper Rear Hinge (Driver Side) secured using original metric bed bolts; two places.

- e. Remove the Heat Shield section between the 3rd & 4th truck bed crossmembers. Use a cut-off wheel to cut the Heat Shield in two places and then dress the cut edge with a disc sander. See Figs 5.0 & 5.5 on next page.
- f. The Upper Nest Assembly (P/N 6169) installs in place of the removed Heat Shield section and is bolted to the 3rd & 4th crossmembers. Note: Match-drill holes in the 3rd & 4th crossmembers as necessary using the Upper Nest as a drill guide. The Upper Nest is also bolted to the right & left longitudinal supports; there are matching holes in the longitudinal supports. There is a total of eight bolts that secure the Upper Nest to the truck bed; 2ea to the 3rd crossmember, 2ea to the 4th crossmember and 2ea on the right and left longitudinal supports.

VC / VP 6600



INSTALL INSTRUCTIONS

5-7-12

DATE

SECTION

SUPERSEDES

6624

2. Longitudinal Support, Upper Rear Hinge and Upper Nest Installation - Continued



Fig 5.0 Remove Heat Shield between 3rd & 4th Crossmembers



Fig 5.5 Heat Shield Removed



Fig 6.0 Upper Nest Installed between the 3rd & 4th bed crossmembers with 8ea Hex Head Cap Screws



Fig 6.5 Upper Rear Hinge (Passenger Side) secured with original metric bed bolts; two places

- g. Once the Upper Nest Assembly is bolted to the 3rd & 4th crossmembers and to the driver's side longitudinal support, install the passenger side longitudinal support and install the remaining two Upper Nest bolts.
- h. Install the remaining Upper Rear Hinge Assembly (Passenger Side) with two of the original metric bed bolts and again, keep the bolts loose until the bed is mated to the Lower Rear hinges later in this manual. See Fig 6.5 above.

VENCO	${\bf MANUFACTURING, INC.}$

INSTALL INSTRUCTIONS

12-2-11

DATE

SECTION

VC / VP 6600

SUPERSEDES

6625

TRUCK MOUNTED COMPONENT INSTALLATION

1. Lower Rear Hinge Installation

Note: The Lower Rear Hinges DO NOT HAVE GREASE FITTINGS; there are 'GREASELESS COMPOSITE' bearings installed from Venco, which are maintenance free and provide superior performance over grease.

a. Position the Left & Right Lower Rear Hinges on the ends of the truck frame. There are three bolts per Lower Rear Hinge Assembly that secure them to the ends of truck chassis rails; one on top and two on the side. Ref. Hardware Kit P/N 6612. See Fig's 7.0 & 7.5 below.





Fig 7.0 Lower Rear Hinge Assy positioned on end of chassis rail; illustrating the three bolts holes.

Fig 7.5 Left & Right Lower Rear Hinge Assy.

Minimum Clearance Measurement for Upper Rear

Hinges

b. Once the Left & Right Lower Rear Hinges are secured to the truck frame, take a measurement from 'Outside-to-Outside' of the two pivot tubes.

NOTE: THIS MINIMUM CLEARANCE DIMENSION MUST BE LESS THAN THE DIMENSION BETWEEN THE TWO UPPER REAR HINGES 'INSIDE-to-INSIDE' DIMENSION. In other words, the Lower Rear Hinges MUST fit inside of the Upper Rear Hinges.

- c. IF REQUIRED, adjust the Upper Rear Hinges (side-to-side) 'PRIOR' to attempting to reinstall the pickup box
- d. Once the Upper Rear Hinges have been adjusted to fit over the Lower Rear Hinges you can secure the Upper Rear Hinges accordingly.

2. Hoist Scissors Preparation

a. Locate the exhaust hanger attached to the center chassis crossmember. Review Fig's 8.0 through 9.5 on next page.

	TITLE	DATE	SECTION
VENCO MANUFACTURING, INC.	INSTALL INSTRUCTIONS	5-7-12	-
		SUPERSEDES	0000
	VC / VP 6600	-	6629

TRUCK MOUNTED COMPONENT INSTALLATION - CONTINUED

b. Use a die-grinder to CAREFULLY cut the welds (NOT THE TRUCK CROSSMEMBER) holding the muffler hanger separating the muffler hanger from the truck crossmember. CAUTION: DO NOT DAMAGE THE TRUCK CROSSMEMBER DURING THIS PROCEDURE.



Fig 8.0 Muffler Hanger - Looking aft (Unmodified)



Fig 8.5 Muffler Hanger - Looking fwd (Unmodified)



Fig 9.0 Muffler Hanger - with hanger removed



Fig 9.5 Muffler Hanger - with hanger flipped 180° and welded on the underside of the truck crossmember

- c. Remove the exhaust hanger from the rubber insulator and reorient the hanger as shown above in Fig 9.5.
- d. Re-weld the exhaust hanger to the UNDERSIDE of the truck crossmember; three $\frac{1}{2}$ " long welds will do Fig 9.5.
- e. Reattach the rubber insulator to the exhaust hanger Fig 9.5.

VENCO MANUFACTURING, INC.	INSTALL INSTRUCTIONS	5-7-12	SECTION
	VC / VP 6600	SUPERSEDES	6630

HOIST SCISSORS INSTALLATION

Note: Leave all attaching hardware LOOSE unless otherwise specified until the scissors assembly is installed and LEVEL.

- a. Locate the Left & Right End Mounting Plates P/N 6180. Fig 10.0
- b. Remove the forward Left & Right Leaf Spring Mechanical Stops, which are secured with (3) bolts each. Note: These (3) bolts will be replaced with M12 x 1.75 x 120mm Gr 8.8 bolts supplied in hardware kit P/N 6606. Fig 10.0
- c. Using an overhead lift, lower the scissors assembly into the truck chassis, between the two truck crossmembers, guiding the 2"x2" square hoist crosstube into position. Fig 10.0 & 10.5

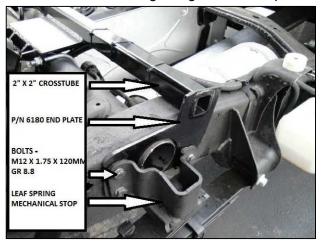


Fig 10.0 Scissors Pivot Attachment

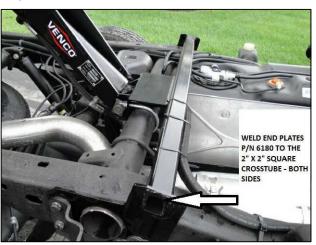


Fig 11.0 Weld 2" x 2" Crosstube to End Plates

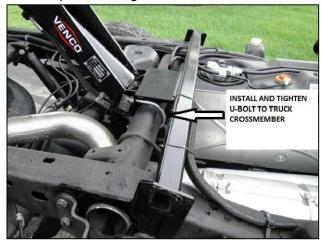
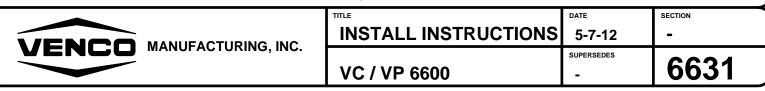


Fig 10.5 Scissors Pivot Attachment



Fig 11.5 Install Tire Spacer / Scissor Rest

- d. Install the U-Bolt to secure scissor pivot to truck crossmember and tighten the two hex nuts. Ref. P/N 6606 hardware kit. Fig 10.5
- e. Weld the 2" x 2" square crosstube to the Left & Right End Plates P/N 6180; weld both sides of each End Plate. Fig 11.0
- f. Reinstall the Left & Right Leaf Spring Mechanical Stops using the provided metric bolts: M12 x 1.75 x 120mm Ref. hardware kit P/N 6606. Fig 10.0
- g. Install as shown, the Tire Spacer / Scissor Rest Welded Assy, P/N 6168 and hardware kit P/N 6606.
- h. Lower the scissors assembly onto the Tire Spacer / Scissor Rest (TSSR) and then adjust by rotating the TSSR as required in order to LEVEL the scissors. Note: Further adjustment may be required when attaching the scissor upper pivots to the pickup bed. Fig 11.5



GAS FILLER MODIFICATION

NOTE: Fig's 12.0 & 12.5 show a typical gas filler modification.

WARNING: INSURE THAT ALL MODIFICATIONS MEET THE GM BODY BUILDERS SPECIFICATIONS.

WARNING: INSURE THAT THE MODIFIED GAS FILLER DOES 'NOT' COME IN CONTACT WITH THE

TRUCK BED.

NOTE: THIS MODIFICATION 'WILL' REQUIRE THE 'RAISING' OF THE HOIST IN ORDER TO FILL THE TRUCK TANK WITH GAS.



Fig 12.0 Typical Gas Filler Modification



Fig 12.5 Typical Gas Filler Modification

HYDRAULIC POWER UNIT INSTALLATION

IMPORTANT: BE SURE TO BLOW DIRT AND OTHER LOOSE MATERIAL FROM HOSES WITH COMPRESSED AIR TO PREVENT THE HYDRAULIC SYSTEM FROM BECOMING CONTAMINATED.

NOTE: The following information applies to the ES (Electric Single-acting) & ED (Electric Double-acting) hydraulic power units.

NOTE: Ref. P/N 6616 Hydraulic Power Unit Drive Kit (ES & ED Power Units)

- a. Install the 68" long hydraulic hose to the full / base end of the cylinder.
- b. FOR ED POWER UNITS ONLY Install the 74" long hydraulic hose to the rod end of the cylinder.
- c. FOR ES POWER UNITS ONLY Install the breather port fitting P/N 40226 in the rod end side of the cylinder.
- d. Install the hyd. power unit to the 'outside' of the truck chassis, just behind the cab (passenger side) Fig 13.0

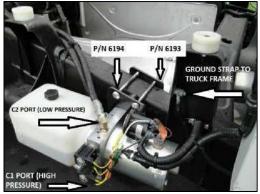


Fig 13.0 Hydraulic Power Unit Install

e. Install the elbow fittings onto the hyd pwr unit.

f. Connect the hoses from the cylinder to the hyd pwr unit as follows: ED POWER UNITS: Cylinder Base to C1 (high pressure port) &

Cylinder Rod to C2 (lower pressure port).

ES POWER UNITS: Cylinder Base to C1

(C1 = pressure & return ports for ES Power Units)

g. Connect the ground strap between the aluminum pump housing and the truck frame.

IMPORTANT: POWER MUST HAVE THIS GROUND STRAP TO OPERATE PROPERLY

VENCO MANUFACTURING, INC.	INSTALL INSTRUCTIONS	5-8-12	SECTION -
	VC / VP 6600	SUPERSEDES	6632

HYDRAULIC POWER UNIT INSTALLATION - CONTINUED

h. Secure the hose(s) with tie-wraps to the truck frame as shown in Fig 13.5

<u>CAUTION:</u> Route hoses away from the exhaust / drive shaft. Also, leave enough slack in the hoses to accommodate movement of the scissors Up/Down.

i. Connect Push-button pendant control to the quick connect from hydraulic power unit - route as required. Fig 14.



Fig 13.5 Hydraulic Power Unit Install



Fig 14.0 Hydraulic Power Unit Install



Fig 14.5 Hydraulic Power Unit Install Complete

Intentionally left blank

- j. Install the black plastic contactor cover with a heavy duty tie wrap. Fig 14.5
- k. Service the hydraulic power unit reservoir with AW 46 or equivalent hydraulic fluid.

PICKUP BOX PREPARATION & REINSTALLATION

NOTE: Before the pickup box is placed back on the chassis frame, be sure that all of the attaching hardware e.g. longitudinal supports, upper nest and upper and lower rear hinges are tightened to the specified torque values.

NOTE: Placing the pickup box back on the chassis is best using an overhead crane or forklift.

TITLE



INSTALL	INSTRUCTIONS
•	

DATE SECTION -

SUPERSEDES

6633

VC / VP 6600

PICKUP BOX PREPARATION & REINSTALLATION - CONTINUED

WARNING: DO NOT WORK ABOVE THE TRUCK FRAME AND UNDER THE TRUCK BED FOR ANY REASON WITHOUT ADEQUATE SAFETY MEASURES TO PREVENT THE TRUCK BED FROM COMING DOWN. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.

- a. Lift the pickup box into position; aligning the Upper Rear (pickup box) hinges with the Lower Rear (Chassis mounted) hinges.
- b. Install the rear hinge pins (2) P/N 40025.NOTE: DO NOT INSTALL THE TWO ROLL PINS AT THIS TIME.
- c. Once the rear hinge pins (2) 40025 are installed confirm the clearance and square to the truck cab. Move the bed up/down simulating the scissors pushing up on the truck bed, checking to make sure the truck bed does NOT come in contact with the cab.
- d. If clearance or square to the cab is a problem, remove the rear hinge pins P/N 40025 and adjust either the Lower or Upper Rear Hinges in order to bring the pickup box into proper alignment to the truck cab.
- e. Once the bed is adjusted and the bolts are torqued, install 2ea Roll Pin $\frac{1}{4}$ " x 1-1/4" long into the two rear hinge pins P/N 40025.

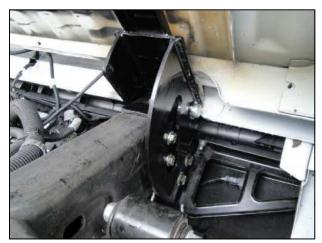


Fig 15.0 Pickup Bed Installation, Rear Hinges



Fig 15.5 Pickup Bed Installation, Rear Hinges

- f. Raise pickup box to approximately 40° dump angle with an overhead crane.
- g. Power Open the hoist to 'meet' the pickup bed at 40° dump angle.
- h. Install Safety Prop. Fig 16.0

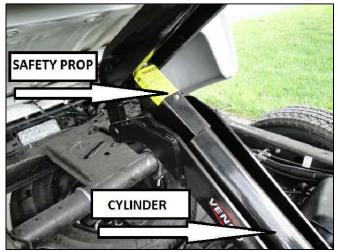


Fig 16.0 Install Safety Prop

Intentionally left blank

SECTION

6634

VENCO MANUFACTURING, INC.	INSTALL INSTRUCTIONS	5-8-12
WENCE WANDFACTURING, INC.	VC /VD ccoo	SUPERSEDES
	VC / VP 6600	-

PICKUP BOX PREPARATION & REINSTALLATION - CONTINUED

- h. Install the two shaft collars onto the scissors Upper Pivot Shaft.
- i. Install the two Upper Scissors Pivots Left & Right P/N 6190-1 & 6190-2.
- j. Lower the pickup box onto the scissors guiding the upper pivots into the upper nest.

NOTE: The upper scissors pivots will reside on the forward side of the upper nest by default. In other words, there is no forward/aft adjustment with this connection due to the location of the truck chassis crossmembers and the position of the Venco scissor hoist.

- k. Install the upper pivot hardware provided in kit P/N 6610.
- I. With the truck bed secured and blocked from coming down, tighten all upper pivot hardware and torque to specified values 30-40 ftlbs.





Fig 16.5 Hoist Scissors to Upper Nest Connection

Fig 17.0 Install UHMW Discs (4 Places) Bed Supports

- m. Install the UHWM discs (white plastic discs) onto the four truck frame bed supports; there are (2) discs per support. Fig. 17.0
- n. Next, lower the bed with the hydraulic power unit for the first time and insure that the hoist is not binding throughout its travel.
- o. With the bed FULLY DOWN, adjust the Tire Spacer / Scissor Support such that it is 'just touching' the 'knuckle' of the scissors for support.
- p. Now, raise the bed and install the Safety Prop.
- q. Move the two upper pivot collars 'outward' against the two upper pivots and fully weld the 'inside' of each collar to the pivot shaft.

Note: This will prevent side-to-side movement of the scissors.

r. Next, fully weld the upper nest pivots Left & Right to the upper nest.

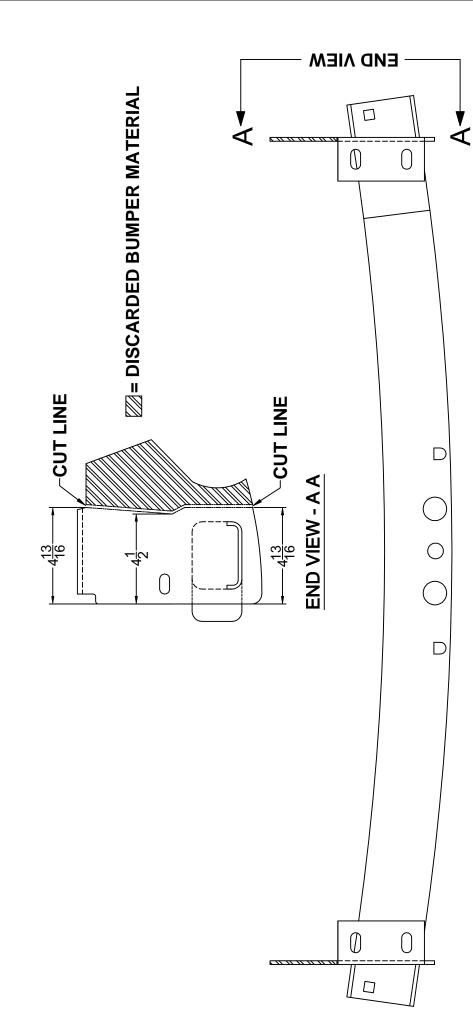
Note: This completes the connection of the hoist scissors to the pickup bed.

PICKUP BUMPER MODIFICATION AND REINSTALLATION (PIVOTING BUMPER WITH BED)

- a. Disassemble and remove all plastic parts from the rear bumper Structural Member.
- b. Follow the instructions for modifying the Rear Bumper Structural Member on the next three pages in this manual; pages 6626, 6627 and 6628.

	TITLE	DATE	SECTION
VENCO MANUFACTURING, INC.	INSTALL INSTRUCTIONS	5-8-12	-
VENCE MANUFACTURING, INC.		SUPERSEDES	0005
	VC / VP 6600	-	6635

VP 6600 PICKUP REAR BUMPER STRUCTURAL MEMBER PREPARATION - PART 1 OF 3



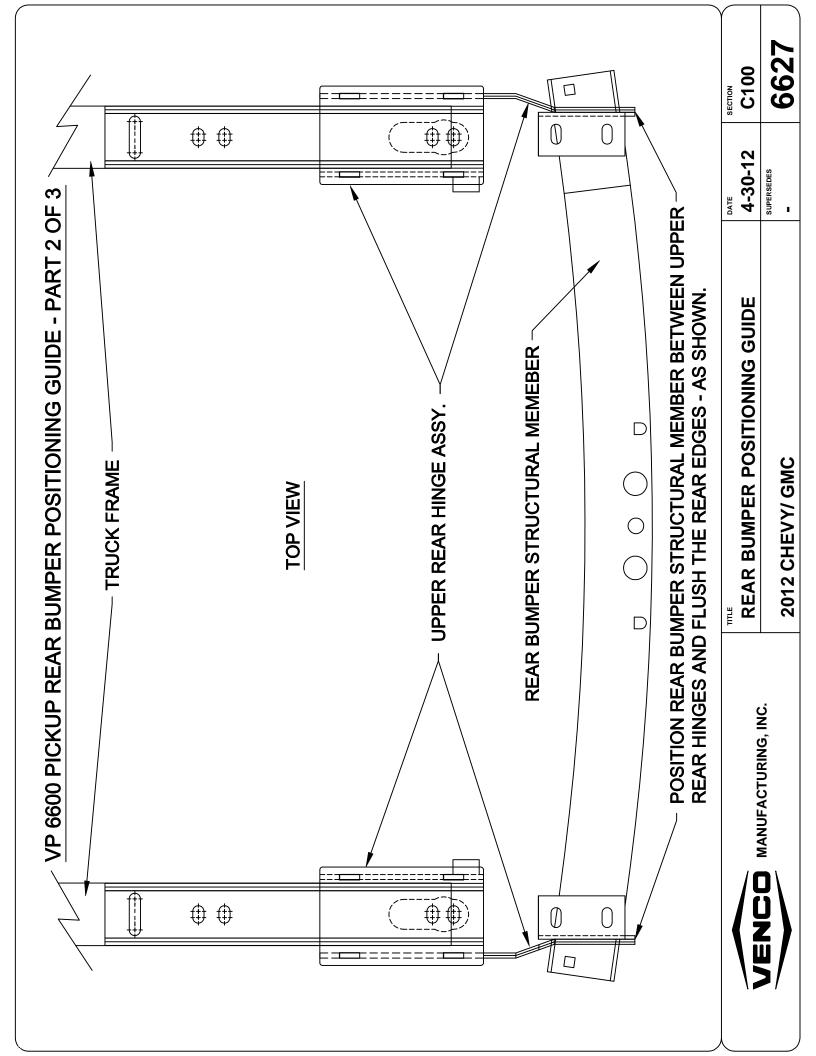
TOP VIEW - REAR BUMPER STRUCTURAL MEMBER



4-30-12
SUPERSEDES
-5-

6626

SECTION C100



STEP 4) INSTALL (4) 5/8-11 X 1-3/4" HEX HEAD CAP SCREWS GR 8 AND ATTACHING HARDWARE FROM HARDWARE KIT 6615. MEMBER TO COMPLETE THE BUMPER REINSTALLATION. STEP 5) REATTACH THE ORIGINAL BUMPER COMPONENTS AND C100 ASSOCIATED WIRING TO THE BUMPER STRUCTURAL SECTION 4-30-12 VP 6600 PICKUP REAR BUMPER POSITIONING GUIDE - PART 3 OF 3 STEP 2) MAKE REAR EDGES FLUSH / EVEN THEN CLAMP BUMPER TO UPPER REAR HINGES - GO TO STEP 3 BELOW. ABOVE THE UPPER EDGE OF THE UPPER REAR HINGE - AS SHOWN. TRUCK FRAME STEP 3) MATCH-DRILL (2) HOLES ON EACH SIDE USING THE UPPER REAR HINGE HOLES AS YOUR GUIDE. STEP 1) POSITION REAR BUMPER STRUCTURAL CROSS MEMBER 1-9/16" **REAR BUMPER POSITIONING GUIDE** UPPER REAR HINGE ASSY. **END VIEW - A A** ENC. MANUFACTURING, INC. <u>9</u>

6628

SUPERSEDES

2012 CHEVY/ GMC

PICKUP BUMPER MODIFICATION AND REINSTALLATION (PIVOTING BUMPER WITH BED) - CONTINUED

c. After completing the modification of the Rear Bumper Structural Member described on the preceding pages 6626, 6627 and 6628, reinstall all of the plastic and metal component parts of the Rear Bumper that were previously removed for the modification.



Fig 17.5 Rear Bumper Structural Member - dry fit to Upper Rear Hinges



Fig 18.5 Typical Cab Clearance



Fig 19.5 Install Complete - Bed Down



Fig 18.0 Reinstalled Pivoting Rear Bumper



Fig 19.0 Wheelwell Displacement - Slightly Aft.



Fig 20.0 Install Complete - Bed Up



INSTAL	L INSTRU	JCTIONS

5-8-12

DATE

SECTION

SUPERSEDES

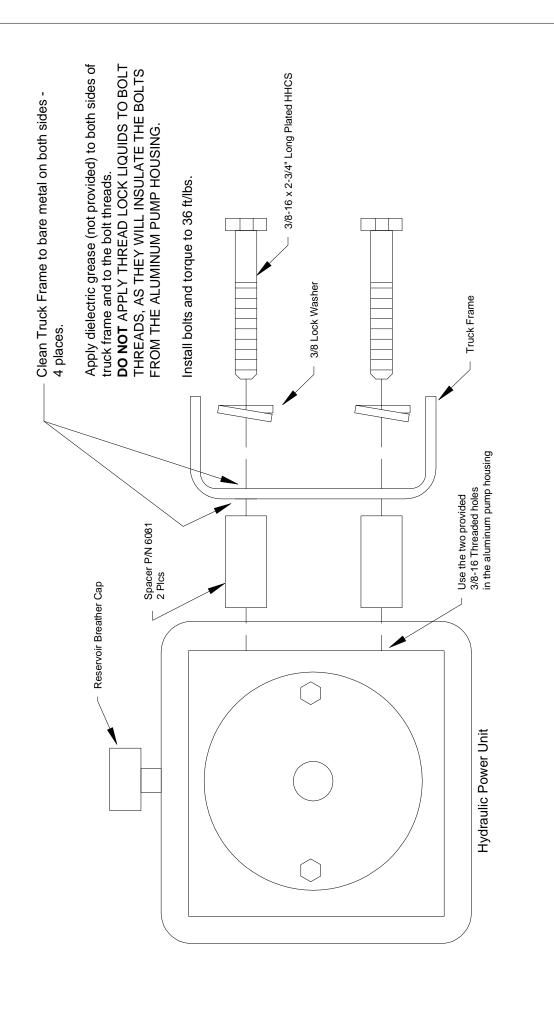
6636

VC / VP 6600

	HOIST MODEL(S)	VP/VC6	TRL313	TRL313 VC416, TRL416 VC516, TRL516 VC520, TRL520 VC620, TRL620 VC628, TRL628 VC628, TRL628 VC628, TRL628 VC628, TRL638 VC628, VC	VC516, TRL516 40058M / 416081M	VC520, TRL520 40058M / 416081M	VC620, TRL620 40058MHD / 416081M	VC628, TRL628
	Reservoir Capacity (Quarts)	3.4 / 3.4	4.6/3.4	4.6/3.4	4.6/3.4	4.6/3.4	54/34	54/34
	Total Hydraulic Fluid Required (Quarts)	4	4	9	8	6	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 indicated amount (Quarts) of hydraulic fluid.	2	7		3.5	3.5	3.5	3.5
2b	Raise hoist one-quarter of the way (approximately 12° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.	•		•	1	1.5	7	က
2c	Ralse hoist <u>one-half</u> of the way (approximately 22-25° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.	7	2	1.5	1	1.5	7	ო
2d	Raise hoist three-quarters of the way (approximately 36° dumping angle) and add the indicated amount (Quarts) of hydraulic fluid.	,		•	-	1.5	7	ю
5e	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	-	1.5	-	2.5	2.5
Step 3	Attach the remaining hose to the Rod-end of they cylinder (not req'd on VP/VC6 & TRL313 holsts w/ ES hyd pwr unit)	ED ONLY	ED ONLY	YES	YES	YES	YES	YES
	ON OMOLESVEINAN CONT.		FILLING H	FILLING HYDRAULIC RESERVOIR	RESERVOIR		ыт 6-16-05С	SECTION
		Š	VP/VC6-62	VP/VC6-628, TRL313-628	328		SUPERSEDES 6-18-03B	416140

PROPER GROUNDING OF HYDRAULIC POWER UNIT

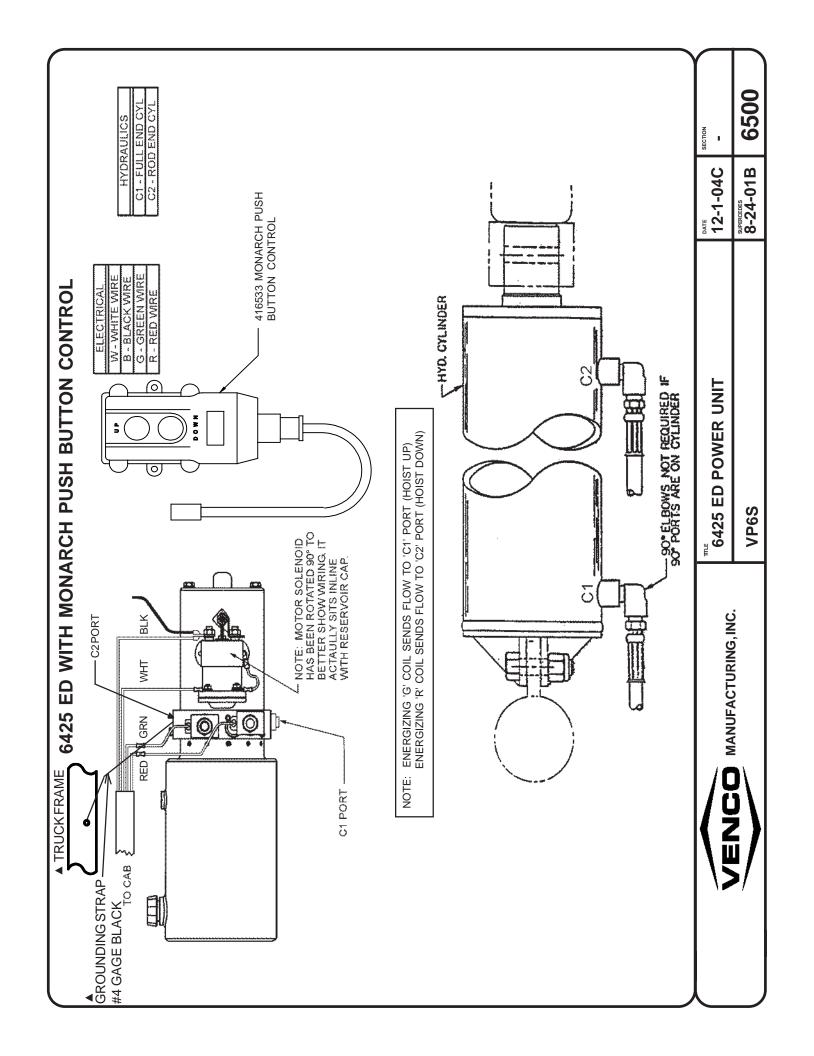
NOTE: Hydraulic power units WILL run with a poor ground connection, BUT the service life of the motor and control valve coils WILL be greatly reduced unless a proper ground connection is made - see illustration below. The mounting instructions below will provide an "adequate ground". In addition, for the best ground configuration, consider our optional Ground Strap Kit P/N 6474.

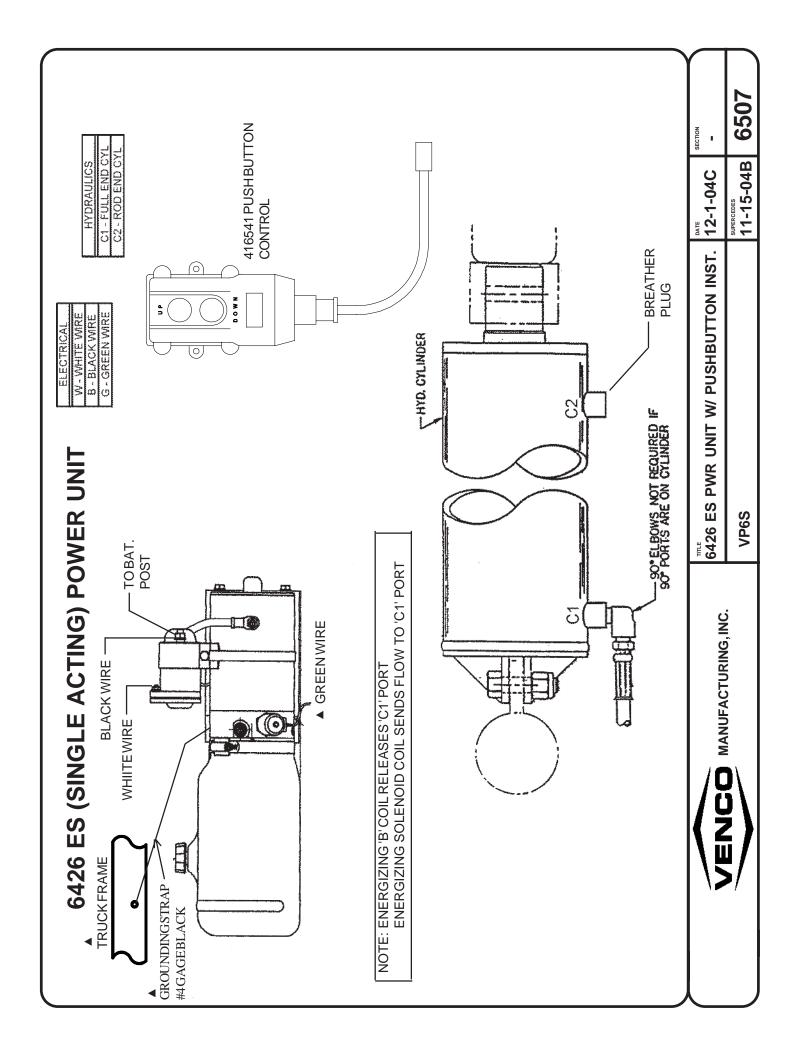


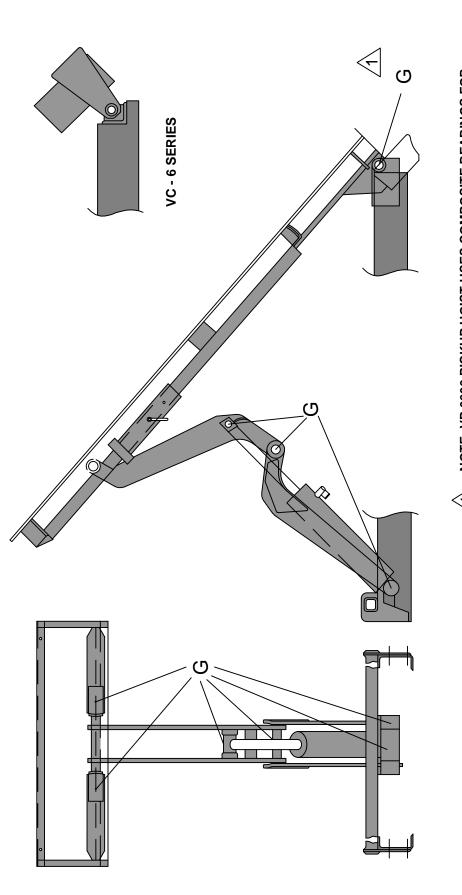


HYDRAULIC POWER UNIT GROUNDING	03-17-14A
	SUPERSEDES
ALL APPLICATIONS	06-03-05

DATE







NOTE: VP 6600 PICKUP HOIST USES COMPOSITE BEARINGS FOR THE LOWER REAR HINGES; NO LUBRICATION REQUIRED ON THIS MODEL ONLY.

VC 6600 CONTRACTOR HOIST DOES REQUIRE LUBRICATION AT THE LOWER REAR HINGE ASSEMBLY.

Lubrication required:	Lubrication used:	Service:	Inspections:
G Grease fittings w/ pressure grease gun	Chassis grease	Time of truck service	Check for leaks around fittings / hoses
Fill oil reservoir 3/4" from top with hoist down	ATF - Dexron II or Mobile DTE 13 - Below 20° F add 3/4 pt. Kerosene	Check periodically or when hoist jerks	Check battery water periodically



MANUFACTURING, INC.

CINCINNATI, OHIO

¥	DAIE	SECTION
LUBRICATION / SERVICE CHART	01-14-13D	H300
	SUPERSEDES	0000
VP / VC - 6 SERIES	05-15-12C	40260

VENCO CONTRACTOR HOIST - MODEL VC-6S

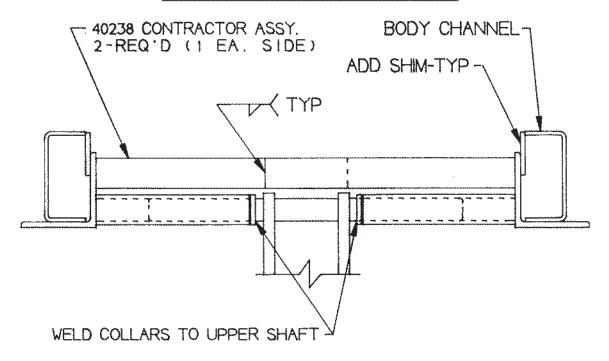
The installation of a VC-6S hoist is identical to the VP-6S hoist with the following exceptions:

- The rear pivot angle is welded to the truck frame.
 The upper rear hinge assembly is welded to rear of contractor body. See Dwg. 6142.
- 2. The contractor's upper lift shaft assembly is also welded to the understructure of contractor body. See figure below.

IMPORTANT

USE SAFETY PROP (OPTION) OR OTHER BED SUPPORTS TO SAFELY PROP TRUCK BED IN 'UP' POSITION WHILE SERVICING HOIST.

STANDARD MOUNTING



VENCO MANUFACTURING, INC.	VC LIFT SHAFT INST.	12-3-02B	H200	_
	VP/VC-6S ▲	11-25-02A	6144	

VC-6R / VC-6S See Figure 1 Below

CAUTION

If a distance of more than 38" is exceeded between the centers of the rear axle and rear hinge assembly, additional reinforcement of the truck frame will be required.

- a. Mark the location for the rear hinge. This location should be immediately behind a truck crossmember. The hole center of the rear pivot angle should not be more than 6" rearward of the rear spring hanger.
- b. See Figure 1, cut as shown a 90° slot in frame (both sides).
- c. Position the angle iron frame of the rear hinge assembly in the truck frame cut outs. Make sure the rear pivot angle assembly is properly positioned on the truck frame. Weld all around truck frame, hinge assembly joint.

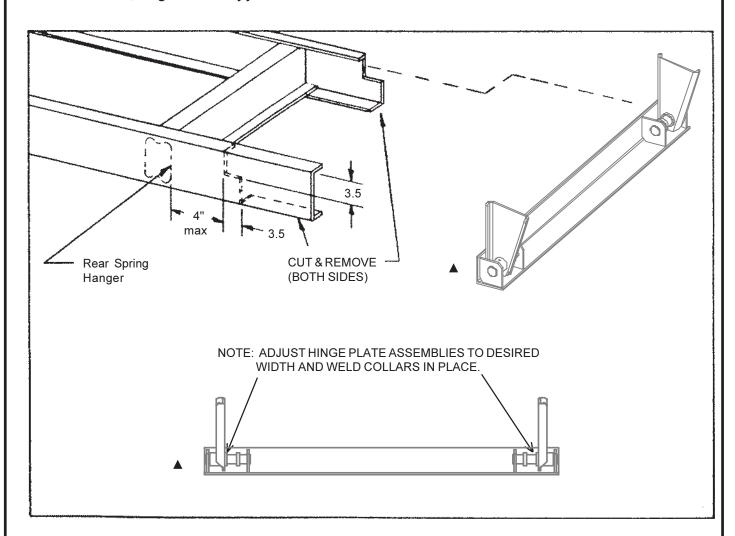
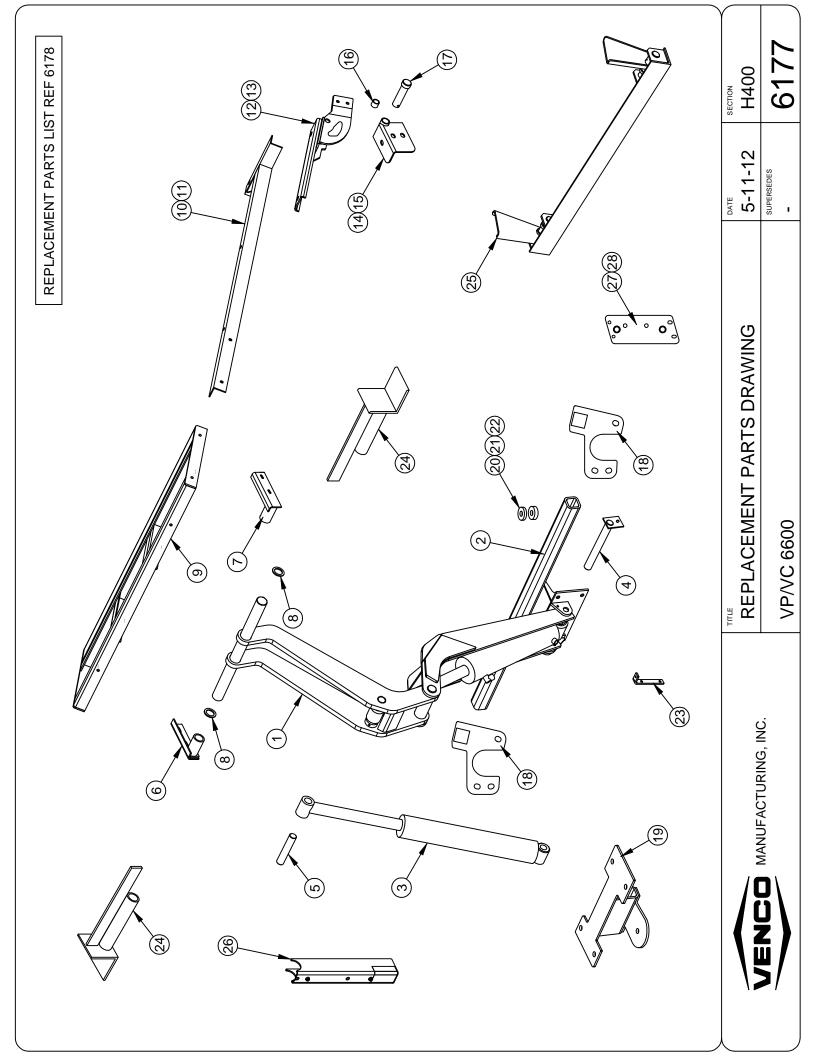


FIGURE 1-FRAME MODIFICATION AND REAR HINGE ATTACHMENT

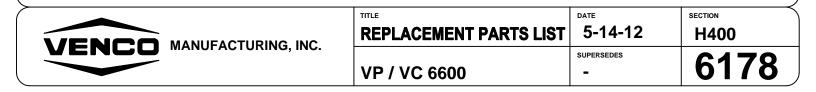
VENCO MANUFACTURING, INC.	INST INSTRUCTIONS	12-20-02B	H200
WANDI ACTORING, INC.	VC/VC-6R, VP/VC-6S	11-18-02A	6142



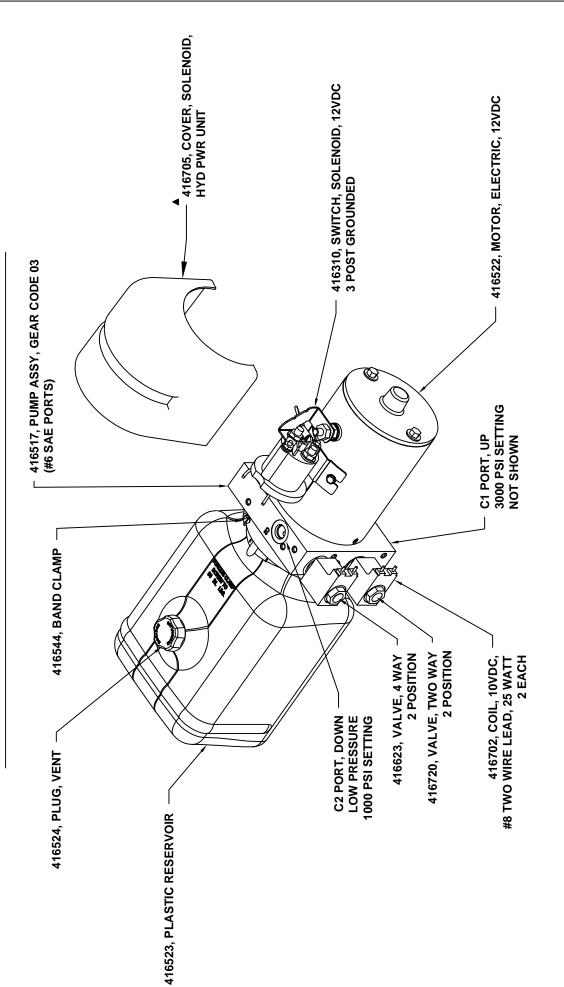
VP / VC 6600 REPLACEMENT PARTS LIST

26	1	6194	MOUNTING PLATE, WELDED ASSY. HYD PWR UNIT
27	1	6193	MOUNTING PLATE, HYDRAULIC POWER UNIT
26	1	40042	SAFETY PROP
25	1	416207-1	LOWER REAR HINGE, CONTRACTOR BODY
24	2	40238	PIVOT, UPPER NEST, CONTRACTOR BODY
23	1	6604	SUPPORT BRACKET, FUEL FILLER
22	4	6424-3	SPACER PAD, UHMW DISC, .59" THICK
21	4	6424-2	SPACER PAD, UHMW DISC, .40" THICK
26	AS REQUIRED	6424-1	SPACER PAD, UHMW DISC, .25" THICK
15	1	6168	TIRE SPACER / SCISSORS SUPPORT, WELDED ASSY.
18	2	6180	END PLATE, SCISSORS PIVOT, WELDED ASSY.
17	2	40025	PIVOT PIN, LOWER REAR HINGE
15	4	21783	COMPOSITE BEARING, LOWER REAR HINGE (2EA/HINGE)
15	1	6175-2	LOWER REAR HINGE, RIGHT, WELDED ASSY.
14	1	6175-1	LOWER REAR HINGE, LEFT, WELDED ASSY.
13	1	6196-2	UPPER REAR HINGE, RIGHT, WELDED ASSY.
12	1	6196-1	UPPER REAR HINGE, LEFT, WELDED ASSY.
11	1	6603-2	LONGITUDINAL SUPPORT, RIGHT, WELDED ASSY.
10	1	6603-1	LONGITUDINAL SUPPORT, LEFT, WELDED ASSY.
9	1	6169	UPPER NEST, WELDED ASSY.
8	2	40007	COLLAR
7	1	6190-2	PIVOT, RIGHT, UPPER NEST
6	1	6190-1	PIVOT, LEFT, UPPER NEST
5	1	40003	PIVOT PIN, CYLINDER ROD END
4	1	6311	PIVOT PIN, SCISSORS & CYLINDER BASE END
3	1	40034	CYLINDER
2	1	6186	SCISSORS PIVOT, WELDED ASSY.
1	1	6375-LC	SCISSORS LESS CYLINDER
ITEM	QTY	PART NO.	DESCRIPTION

FOR REPLACEMENT PARTS DRAWING SEE 6177



REPLACEMENT PARTS 6425 ED



416533, PUSH BUTTON PENDANT, YELLOW & GREY 416518, O-RING, INDUSTRIAL (3-5/8 x 3-7/8 x 1/8) 416521, PARTS KIT, RELIEF VALVE, 2 EACH NOT SHOWN:

VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

လ	
ARTS	
NT PA	
Ш	
\CEM	
7	
RE	

	IT PARTS	
	ACEMENT	
тпе	REPLAC	

WER UNIT
6425 ED POWER UNI

6482

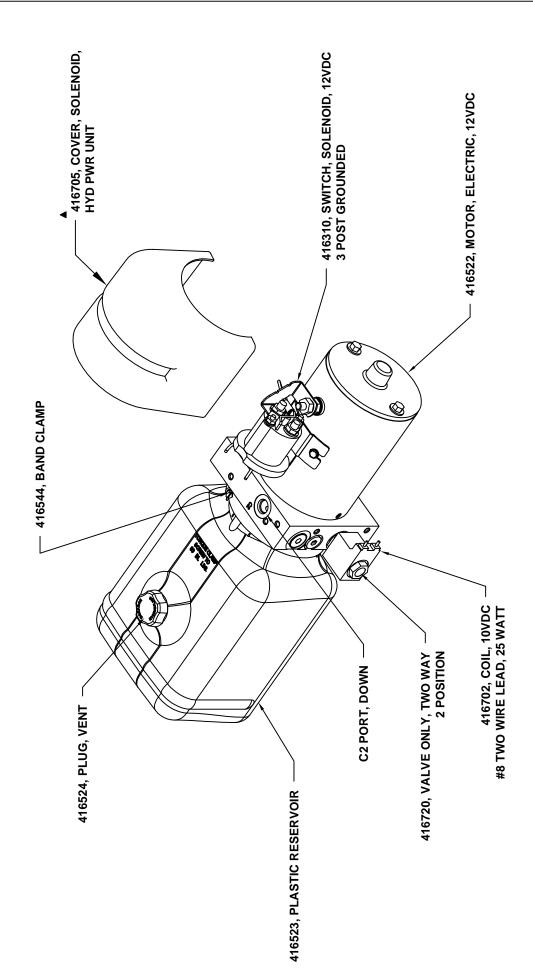
10-27-05 SUPERSEDES

SECTION

DATE

03-20-15A

REPLACEMENT PARTS 6426 ES



NOT SHOWN: 416541, PUSH BUTTON PENDANT, GREY & ORANGE 416518, O-RING, INDUSTRIAL (3-5/8 X 3-7/8 X 1/8) 6504, PUMP ASSEMBLY (GEAR CODE = 03) 6505, RELIEF VALVE KIT



VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO

REPLACEMENT PARTS DRAWING TITLE

03-20-15C 10-05-05B SUPERSEDES 6426 ES POWER UNIT

6508

SECTION

DATE

VENCO HOISTS LIMITED WARRANTY POLICY



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

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

3-Year Limited Warranty Policy

This limited policy warrants new products of Venco to be free from defects in material and workmanship for a period of three (3) years from date of original installation. OEM products or accessories purchased by Venco as part of or offered with our product will carry the OEM manufacturer's respective warranty. Our warranty covers:

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

We shall not be liable for any contingent liabilities arising out of the improper function of any products. Warranty shall become void if the product is improperly installed, modified, damaged, abused or used for application other than intended use. Venco hoists are designed for and intended to be used on stationary trucks dumping on firm and level ground. Spreading applications and/or shock unloading are strictly prohibited and will void this warranty. There is no warranty of merchantability, fitness for a particular purpose, warranty arising from course of dealing or usage of trade, or any other implied or expressed warranty, except as made specifically herein. This warranty supersedes all previous warranties, written or implied.

Warranty Claims

Venco Venturo Industries LLC will make a good faith effort for prompt correction or other adjustment with respect to any product, which proves to be defective after our inspection and within the warranty period. Before any repairs are attempted or before returning any product, your Venco Distributor is required to obtain a warranty claim number. This number is necessary for any claim to be considered. To obtain a warranty claim number, Venco requires the model and serial number. Only authorized Venco Distributors can perform warranty. For the name and address of your local Venco Distributor call the **Warranty Claim Department - 513-772-8448.**

WARNING - It is the responsibility of the installer to ensure the installation is completed according to the manufacturer's recommendations, ensure the ultimate user understands how to operate product in a safe manner, and understands the need for regular service and maintenance by an authorized Venco Distributor. No modifications or alterations may be made to any Venco product without the expressed written consent of Venco Venturo Industries LLC. Installation of any Venco product must be done by an authorized Venco Distributor, to the standards of the industry; including maintenance, service and affixing of all instruction, safety and warning decals. Users should be instructed as to the safe operation at time of delivery. Maintenance, service, operation and safety warning decals are available on request from Venco Venturo Industries LLC.

VENCO VENTURO INDUSTRIES LLC

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

Revised: January 2015 12-00073_VNC3-D