

**INST-25440** 

25100-PHX(E)(-LC)

# PARTS & INSTALLATION MANUAL 25100-PHX (E) (-LC)

# Included in this manual:

# 25100-PHX (E) (-LC)

- Stabilizer with Hydraulic Pullout and Hydraulic Legs
- Available in "Less Crosstube" (-LC) configuration
- Available with Hydraulic Power Unit (E)

VENCO VENTURO INDUSTRIES LLC 12110 BEST PLACE | CINCINNATI, OHIO 45241



# 25100-PHX(-LC INST-25440 - 11/14/2025 (Rev. C1)

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25489	OVERALL DIMENSIONS - SHORT LEG
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25484-2 RECOMMENDED MOUNTING TO TRUCK FRAME

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SELECTOR VALVE OVERVIEW 25447-1 25446 **HYDRAULIC MAPPING - 1 OF 2** 25449

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**SECTION 300: OPERATION** 7607300B 25100 PHX (E) OPERATION 30035

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25216

12-00073\_VNT1 WARRANTY PAGE

# **SECTION 200**

# INSTALLATION



# STABILIZER INSTALLATION GUIDELINES

Read instructions completely prior to starting installation. If this unit is to be installed on a Venturo crane body, continue to the stabilizer assembly section of this manual.

Prior to mounting the stabilizer crosstube, orient the stabilizer so the longer pullout is on the crane side of the truck.

### **REAR MOUNTED**

Crosstube should be centered at the rear of the truck and tied into the truck frame, body longsills, and crane support. Installer is responsible for proper mounting brackets and hardware that will be needed during this process. If unit is to be mounted on a service body, do not attach crosstube to body sheet metal unless otherwise specified. Allow clearance between crosstube and body for the stabilizer legs to be fully retracted. Consult chassis up-fitter guide prior to installation for proper welding and bolting procedures to chassis.

# See the 'RECOMMENDED MOUNTING TO TRUCK FRAME' page

Leg installation (refer to assembly section of manual) legs are adjustable to maintain proper ground penetration of 4" to 6". The stabilizer is designed to level the truck and not lift the chassis off of the ground. They are designed to work in conjunction with the chassis suspension to stabilize the unit with the bulk of the load being supported by the chassis suspension and tires. Tires must be set at the proper pressure according to the chassis manufacture, stabilizers fully extended, and legs deployed on firm, level ground prior to crane use.

IMPORTANT - When legs are fully retracted in the stowed position, a 15° degree departure angle between the bottom of the rear tire and the lowest point of the stabilizer is recommended.

# See the 'DEPARTURE ANGLE' page

For hydraulic stabilizers, the control valve and selector valve are supplied in kit. It is the installer's responsibility to supply necessary hoses and fittings between these valves and stabilizer. Refer to proper hydraulic schematic for your particular stabilizer model.

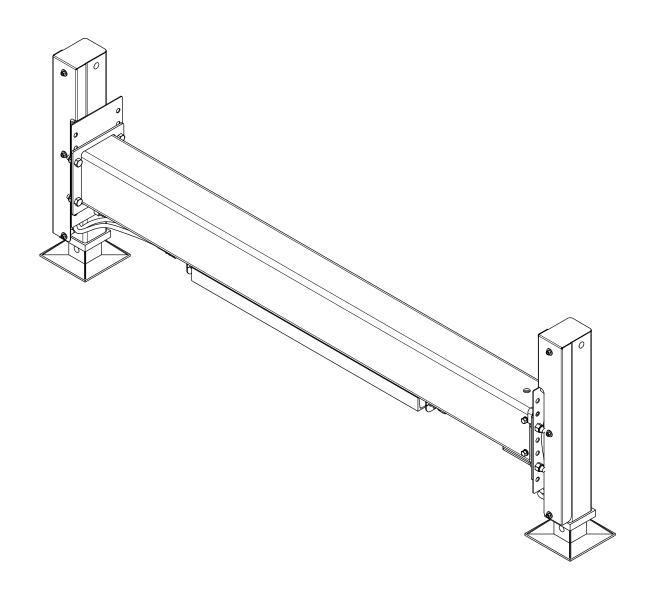
IMPORTANT - The selector valve is designed to separate the crane and stabilizer hydraulic circuits. This will not allow stabilizer use while in crane mode.

### FRONT MOUNTED

Front mounted crosstube will be located on top of the chassis frame and welded to body longsills. Additional shear plates (installer supplied) to be welded to crosstube and bolted to chassis frame. Crosstube to be spaced away from body for leg clearance when fully retracted. See assembly section of manual for pullout and leg installation detail.

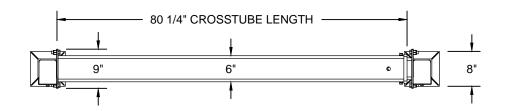


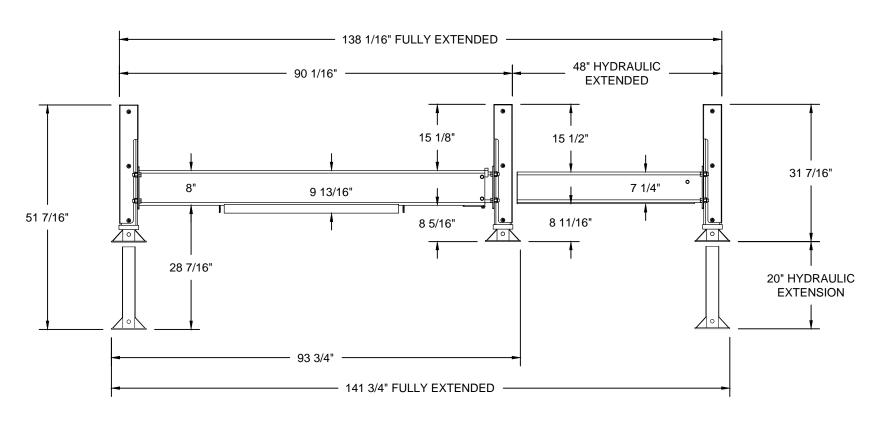
INSTALLATION GUIDELINES	12-08-23A	C200
STABILIZERS	SUPERSEDES 01-17-17	25480



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ISOMETRIC VIEW	01-20-17	02
25100-PHX OUTRIGGER (WITH SHORT LEGS)	SUPERSEDES -	25488





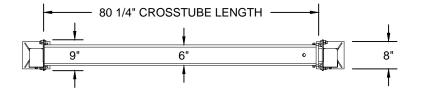
HIGHEST LEG MOUNT SHOWN

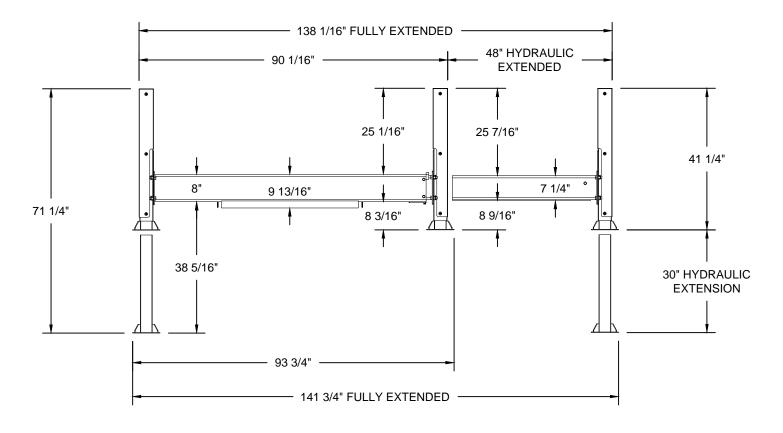
**6" RANGE ADJUSTABLE** FOR LEG MOUNTING AT 2" INCREMENTS



CINCINNATI, OHIO

OVER ALL DIMENSIONS	01-20-17	PAGE 03
25100-PHX OUTRIGGER WITH SHORT LEGS	SUPERSEDES -	25489



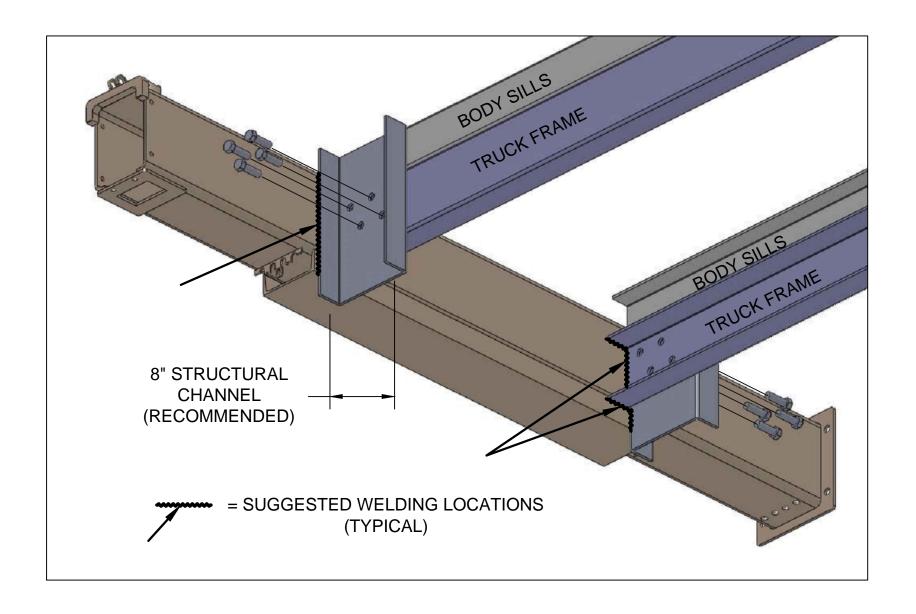


HIGHEST LEG MOUNT SHOWN

6" RANGE ADJUSTABLE FOR LEG MOUNTING AT 2" INCREMENTS



С	OVERALL DIMENSIONS	01-20-17	04
	25100-PHX OUTRIGGER WITH LONG LEGS	SUPERSEDES -	25490



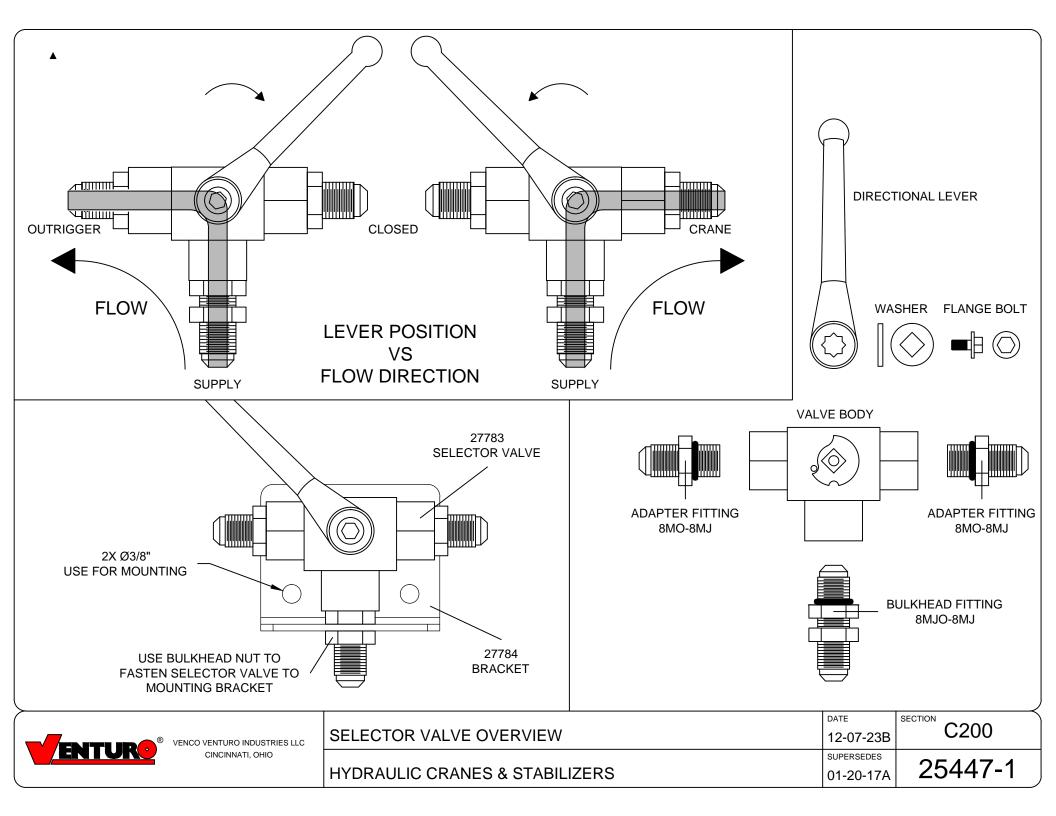
® VENCO VENTURO INDUSTRIES LLC	RECOMMENDED MOUNTING TO TRUCK FRAME	12-08-23A	C200
CINCINNATI, OHIO		SUPERSEDES	05404.0
	25100/26100 SERIES STABILIZERS	01-20-17	25484-2

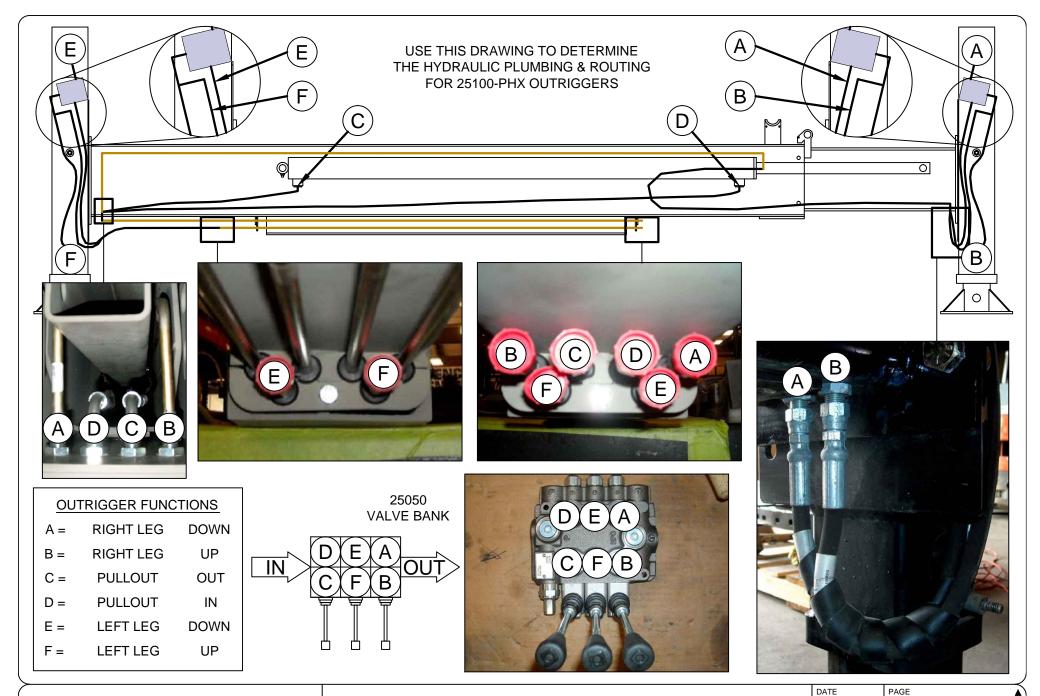


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SMALL PARTS IMAGE	01-20-17A	06
<b>A</b>	SUPERSEDES	05440
25100-PHX OUTRIGGERS	03-11-16	25448







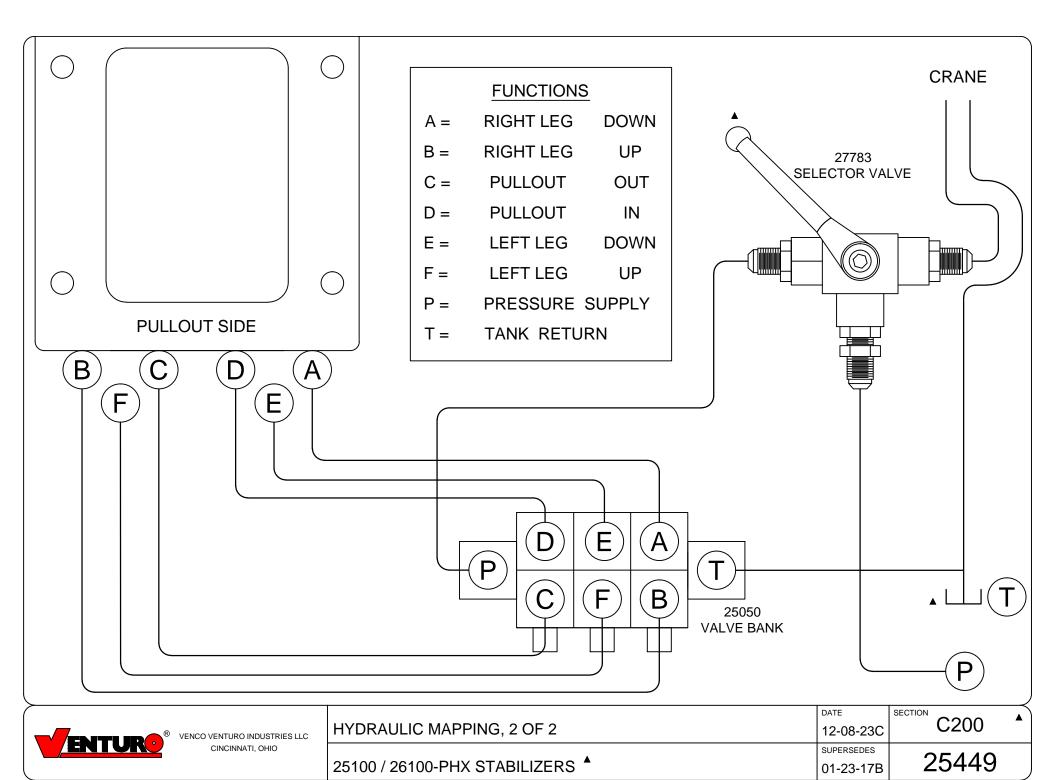
VENCO VENTURO INDUSTRIES LLC

HYDRULIC MAPPING, 1 OF 2

25100-PHX OUTRIGGERS

01-20-17B 08

SUPERSEDES 03-17-16A 25446



# RECOMMENDED DEPARTURE ANGLE



** VENCO VENTURO INDUSTRIES LLC	RECOMMENDED DEPARTURE ANGLE
CINCINNATI, OHIO	
	REAR MOUNTED OUTRIGGERS

		•
DATE	PAGE	١
08-25-22A	-	
SUPERSEDES	05405	
01-18-17	25485	,
	08-25-22A SUPERSEDES	08-25-22A - SUPERSEDES 25/195

# MOUNTING THE OUTRIGGER LEGS, 25100 SERIES OUTRIGGERS

FOLLOW INSTRUCTIONS FOR MOUNTING 25100 SERIES OUTRIGGER LEGS.

▲ 1. DETERMINE PLACEMENT OF OUTRIGGER LEGS. REFER TO MODEL SPECIFIC 'OVERALL DIMENSIONS' PAGE.

2. USE HARDWARE & FASTENERS PROVIDED (REFERENCE IMAGE BELOW):

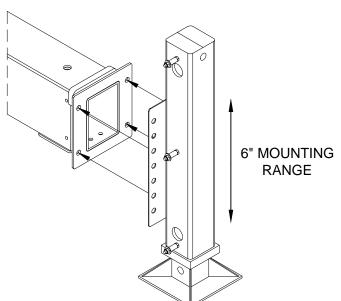
[8] HEX HEAD CAP SCREW; 5/8-11 X 1-1/2", GR. 8, ZINC

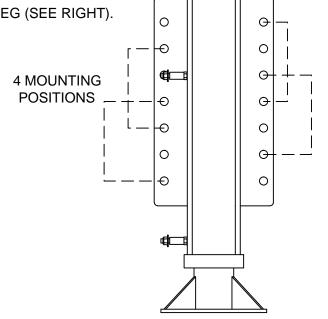
[8] LOCK NUT; 5/8-11, GR. 8, ZINC, NYLON-INSERT

3. INSERT BOLTS POINTING AWAY FROM OUTRIGGER (REFERENCE IMAGE BELOW).

4. TORQUE OUTRIGGER LEG BOLTS & NUTS TO 190 FT-LBS EACH.

5. PLACE 24964 DANGER DECAL, [1] ON EACH LEG (SEE RIGHT).





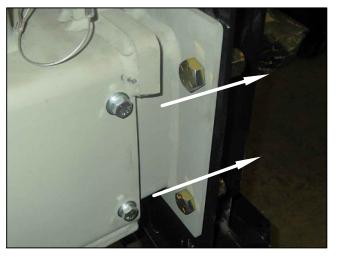
**DECAL** 

**PLACEMENT** 

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	DATE	PAGE 1 1
MOUNTING THE LEGS	01-23-17A	11
	SUPERSEDES	05400.0
25100 SERIES OUTRIGGERS	03-11-16	25428-2

# ASSEMBLY OF 25100-PHX OUTRIGGER WITH LESS-CROSSTUBE CONFIGURATION



PLACE [1] UHMW PAD ON PULLOUT PAGE 15 - ITEM 1



PLACE [1] UHMW PAD IN CROSSTUBE PAGE 15 - ITEM 1



ENSURE PULLOUT CYLINDER HOUSING & PLUMBING ARE TIED



SLIDE PULLOUT INTO CROSSTUBE



FASTEN 25065 NUT BAR RETAINERS IN CROSSTUBE PAGE 15 - ITEMS 2, 7, 8, & 9



FASTEN 25077 NUT BAR RETAINER IN CROSSTUBE PAGE 15 - ITEMS 3, 4, 5, & 6



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LESS-CROSSTUBE ASSY	SY			

01-23-17A

PAGE 12

25100-PHX OUTRIGGERS

SUPERSEDES 03-11-16

# ASSEMBLY OF 25100-PHX OUTRIGGER WITH LESS-CROSSTUBE CONFIGURATION



FASTEN BULKHEADS - SEE NEXT STEP'S IMAGE PAGE 15 - ITEM 12



FASTEN 25138 TUBES TO BULKHEADS PAGE 15 - ITEM 13



PUSH GROMMETS AROUND TUBES
PAGE 15 - ITEM 15



PLACE 25139 TUBES PAGE 15 - ITEM 14



CLAMP AROUND GROMMETS PAGE 15 - ITEM 16



FASTEN CLAMP, PAGE 15 - ITEMS 4 & 17 REPEAT STEPS 9 TO 11 FOR OPPOSITE CLAMP



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LESS-CROSSTUBE ASSY	
	4

DATE PAGE 01-23-17A

13

25100-PHX OUTRIGGERS

SUPERSEDES 03-11-16

# ASSEMBLY OF 25100-PHX OUTRIGGER WITH LESS-CROSSTUBE CONFIGURATION



UNTIE PULLOUT CYLINDER HOUSING & PLUMBING



SEE HYDRAULIC MAPPING PAGES 8 & 9



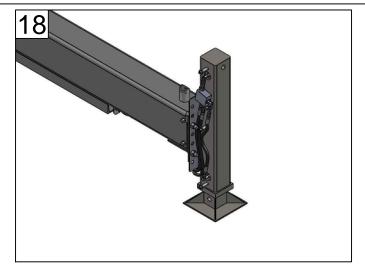
**INSERT SHAFT & COLLARS INTO CYLINDER HOUSING** 



PUSH SHAFT INTO TOP SLOT OF CROSSTUBE



WITH CYLINDER HOUSING CENTERED LOCTITE & FASTEN COLLARS FLUSH



PROCEED TO MOUNTING OF LEGS & HYDRAULICS



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LESS-CROSSTUBE ASSY

▲ DATE PAGE 01-23-17A

14

25100-PHX OUTRIGGERS

SUPERSEDES 03-11-16

# **SECTION 300**

# OPERATION & MAINTENANCE



# 25100 PHX (E) OPERATION

### STABILIZER OPERATION:

WHEN OPERATING STABILIZERS, ENSURE EVERYONE IS STANDING CLEAR AND NOTHING IS OBSTRUCTING STABILIZER PAD AND GROUND. FOR MAXIMUM STABILITY, FULLY EXTEND ALL STABILIZER (S) AND LOWER ALL LEGS ON A FIRM FOUNDATION

OSHA REQUIRES THE TRUCK TO BE LEVEL WITHIN 1% OF GRADE FOR ANY LIFTING OPERATION

# **ALWAYS HAVE STABILIZERS IN PLACE FOR ANY LIFTING OPERATION!**

NOTE: STABILIZERS ARE NOT MEANT TO LIFT THE VEHICLE TIRES OFF THE GROUND. <u>TIRE-TO-GROUND CONTACT IS ESSENTIAL</u> AND PART OF THE VEHICLE STABILITY CALCULATION SYSTEM.

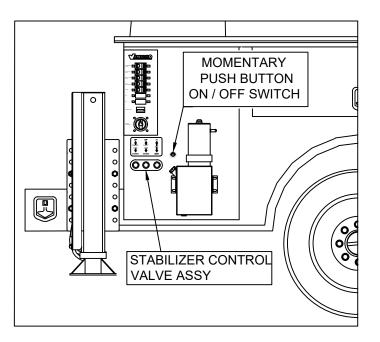
### 25100 PHXE START THE ENGINE

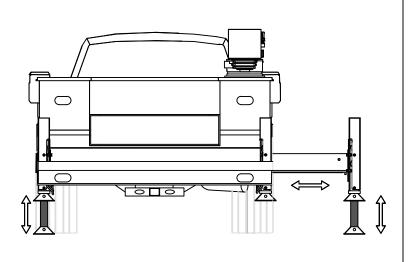
ELECTRIC OVER HYDRAULIC POWERED STABILIZER
OPERATION REQUIRES THE CHASSIS ENGINE TO BE
RUNNING IN ORDER TO MAINTAIN THE CHASSIS BATTERY
CHARGE LEVEL

THE MOMENTARY PUSH BUTTON POWER SWITCH MUST BE HELD IN THE ON POSITION IN CONCERT WITH CONTROL VALVE HANDLE OPERATION FOR STABILIZER TO FUNCTION

### 25100 PHX START THE ENGINE ENGAGE THE PTO

FOR PTO HYDRAULIC OPERATION THE CHASSIS ENGINE MUST BE RUNNING AND THE P.T.O. (POWER TAKE OFF) UNIT MUST BE ENGAGED. HYDRAULIC FLOW MUST BE DIVERTED TO THE STABILIZER HYDRAULIC CIRCUIT. FOR MORE INFORMATION SEE, CHASSIS / P.T.O. OWNER MANUALS.







STABILIZER OPERATION	11-07-25	SECTION -
25100 PHX (E)	SUPERSEDES -	30035

# **SECTION 400**

# REPLACEMENT PARTS



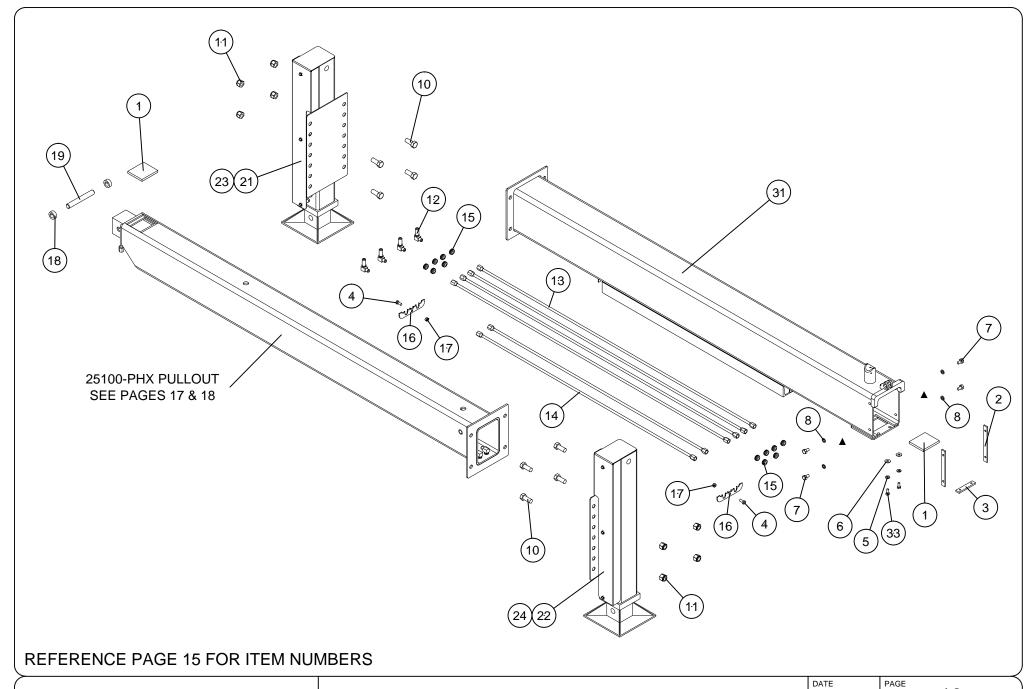
# PARTS BREAKDOWN, 25100-PHX OUTRIGGERS (LESS-CROSSTUBE PARTS INCLUDED)

				Q.	TY
	#	PART #	DESCRIPTION	-SL	-LL
	*1	25081	UHMW PAD; 3-1/8 X 3-1/2 X 3/8	2	2
	*2	25065	NUT BAR RETAINER	2	2
	*3	25077	NUT BAR RETAINER	1	1
	*4	!HHCS03118075	HEX HEAD CAP SCREW; 5/16-18 X 3/4, GR. 5	2	2
	*5	!LWSH-031	LOCK WASHER; 5/16, GR. 5	2	2
	*6	!FWSH-031	FLAT WASHER; 5/16, GR. 5	2	2
•	*7	!HHCS03816050	HEX HEAD CAP SCREW; 3/8-16 X 1/2, GR. 5	4	4
	*8	!LWSH-038	LOCK WASHER; 3/8, GR. 5	4	4
•	*9	-	-	-	-
	*10	!HHCS06311150-8	HEX HEAD CAP SCREW; 5/8-11 X 1-1/2, GR. 8	8	8
	*11	!LNUT-06311-8	LOCK NUT; 5/8-11, GR. 8, NYLON INSERT	8	8
	*12	H2701-0606	ADAPTER FITTING; 90° BULKHEAD, 6MJ-6MJ	4	4
	*13	25138	HYDRAULIC TUBE, 60"	4	4
	*14	25139	HYDRAULIC TUBE, 47"	2	2
	*15	14883	GROMMETS, HYDRAULIC TUBES	12	12
	*16	25157	CROSSTUBE CLAMP PLATE	2	2
	*17	!LNUT-03118	LOCK NUT; 5/16-18, GR.5, NYLON INSERT	2	2
	*18	28446	CLAMPING SHAFT COLLAR - 3/4 ID	2	2
	*19	25051	SHAFT, CYLINDER HOUSING	1	1
	*20	24964	DECAL; DANGER, CRUSHING INJURY	2	2
	21	SEE PAGES 19 & 20	HYDRAULIC LEG; SHORT, LEFT, 25100 O.R.	1	-
	22	SEE PAGES 19 & 20	HYDRAULIC LEG; SHORT, RIGHT, 25100 O.R.	1	-
	23	SEE PAGES 19 & 20	HYDRAULIC LEG; LONG, LEFT, 25100 O.R.	-	1
	24	SEE PAGES 19 & 20	HYDRAULIC LEG; LONG, RIGHT, 25100 O.R.	-	1
	*25	25050	VALVE BLOCK, 3-SPOOL	1	1
	*26	H6400-0808	ADAPTER FITTING; STRAIGHT, 8MJ-8MO	2	2
	*27	H6400-0608	ADAPTER FITTING; STRAIGHT, 6MJ-8MO	6	6
	*28	27783	SELECTOR VALVE	1	1
	*29	27784	BRACKET, SELECTOR VALVE	1	1
	30	INST-21024	OUTRIGGER & ACCESSORIES MANUAL	1	1
	31	25085-2	CROSSTUBE; 25100 SERIES OUTRIGGERS	1	1
	32	-	-	_	_
	*33	!HHCS03118063	HEX HEAD CAP SCREW; 5/16-18 X 5/8, GR. 5	2	2

<sup>\*</sup> WHEN PURCHASED IN "LESS CROSS TUBE" ("LCT") CONFIGURATION, THESE ITEMS WILL BE SHIPPED LOOSE AND REQUIRE INSTALLATION



PARTS BREAKDOWN	07-02-25F	15
	SUPERSEDES	05440
25100-PHX OUTRIGGERS	07-30-24E	25442



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PARTS BREAKDOWN (LESS-CROSSTUBE PARTS INCLUDED)

25100-PHX OUTRIGGERS

07

07-02-25C 16

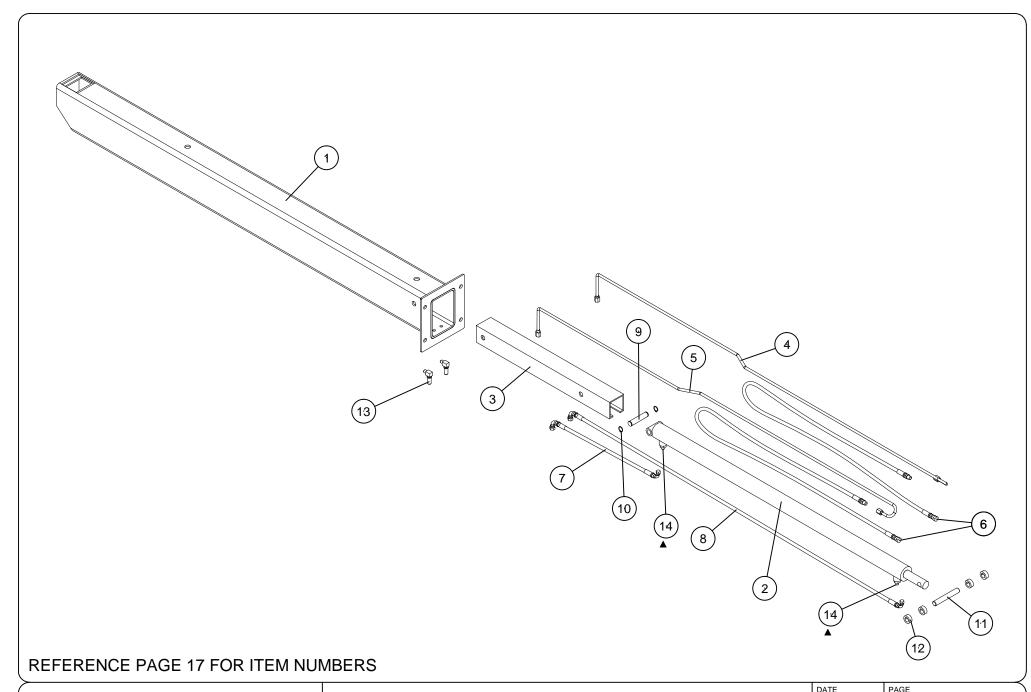
SUPERSEDES 07-29-24B 25441

# PARTS BREAKDOWN, 25100-PHX PULLOUT ASSEMBLY

#	PART#	DESCRIPTION	QTY
1	25087-2	PULLOUT; 4', 25100-PHX OUTRIGGERS	1
2	25086	EXTENSION CYLINDER; 4', 25100-PHX	1
3	25088	HOUSING; EXTENSION CYLINDER BASE-END	1
4	25137	HYDRAULIC TUBE; RIGHT LEG, DOWN	1
5	25136	HYDRAULIC TUBE; RIGHT LEG, UP	1
6	25149	HOSE ASSEMBLY; RIGHT LEG, UP & DOWN	2
7	25154	HOSE ASSEMBLY; CYLINDER, OUT	1
8	25155	HOSE ASSEMBLY; CYLINDER, IN	1
9	25049	SHAFT; CYLINDER & HOUSING, BASE-END	1
10	!SRNG-075	SNAP RING; 3/4", PLATED	2
11	25052	SHAFT; CYLINDER & PULLOUT, ROD-END	1
12	28446	CLAMPING SHAFT COLLAR - 3/4" ID	4
13	H2701LN-0606	BULKHEAD FITTINGS; 90°, 6MJ-6MJ, L-NUT	2
14	H6400-0408	HYD TUBE ADAPTER - 4MJ-8MO	2



PARTS BREAKDOWN	07-30-24C	17
	SUPERSEDES	OFAFA
25100-PHX PULLOUT ASSY	07-26-24B	25451





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PARTS BREAKDOWN		07-30-24B	18
25100-PHX PULLOUT A	SSEMBLY	SUPERSEDES 01-23-17A	25450

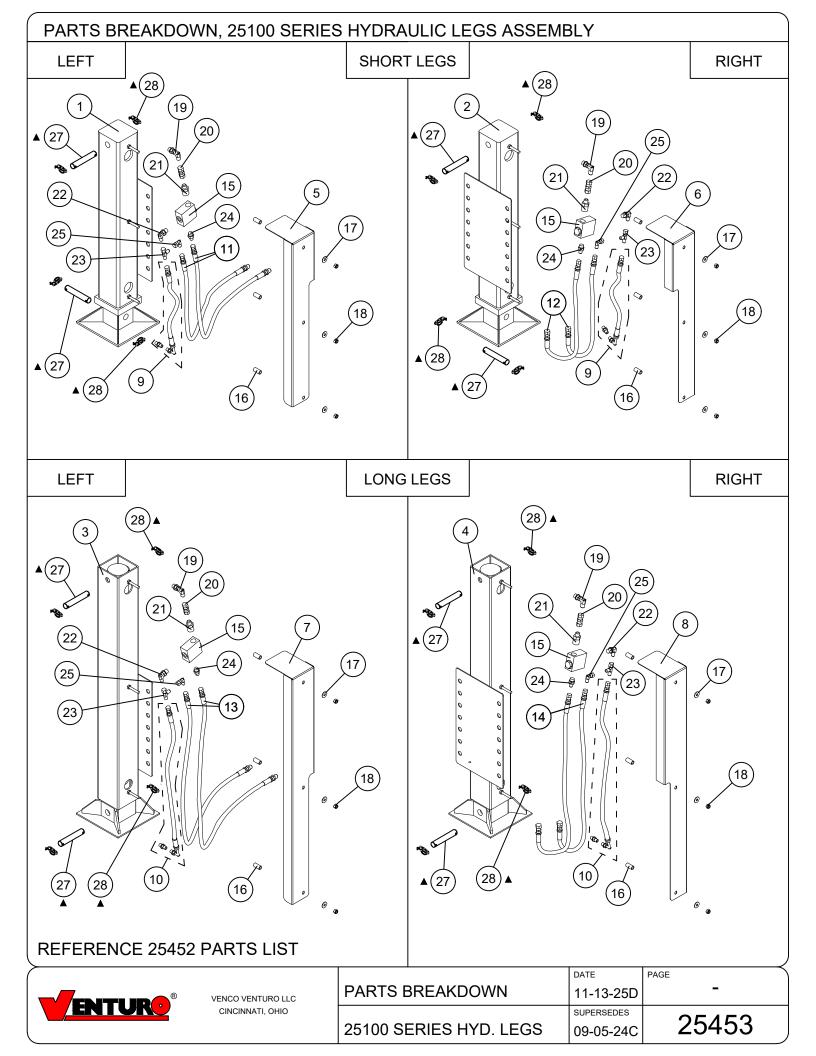
# PARTS BREAKDOWN, 25100 SERIES HYDRAULIC LEGS ASSEMBLY

	25100 SERIES OUTRIGGERS		ORT	LO	NG	
			LEFT RIGHT LEFT RIGHT		RIGHT	
#	DESCRIPTION	C	AUA	TIT	Y	PART#
1	HYDRAULIC LEG; SHORT, LEFT-SIDE	1	-	_	1	25064-1
2	HYDRAULIC LEG; SHORT, RIGHT-SIDE	-	1	-	ı	25064-2
3	HYDRAULIC LEG; LONG, LEFT-SIDE	-	_	1	ī	25055-1
4	HYDRAULIC LEG; LONG, RIGHT-SIDE	-	-	-	1	25055-2
5	COVER; SHORT LEG, LEFT-SIDE	1	-	_	-	25069-1
6	COVER; SHORT LEG, RIGHT-SIDE	-	1	-	ī	25069-2
7	COVER; LONG LEG, LEFT-SIDE	-	-	1	-	25068-1
8	COVER; LONG LEG, RIGHT-SIDE	-	-	_	1	25068-2
9	HOSE ASSY KIT -SL (INCLUDES HOSE AND FITTI	1	1	_	ī	25193-KIT
10	HOSE ASSY KIT -LL (INCLUDES HOSE AND FITTIN	-	-	1	1	25217-KIT
11	HOSE ASSEMBLY; 47", 4FX-6MJ, SHORT LEG, LE	2	-	-	ī	25151
12	HOSE ASSEMBLY; 27", 4FX-6FX, SHORT LEG, RI	-	2	-	1	25147
13	HOSE ASSEMBLY; 54", 4FX-6MJ, LONG LEG, LEF	-	-	2	i	25153
14	HOSE ASSEMBLY; 37", 4FX-6FX, LONG LEG, RIG	-	-	_	2	25152
15	VALVE BLOCK; CHECK BODY & CARTRIDGE	1	1	1	1	22765
16	SPACER; HYDRAULIC LEG COVERS	3	3	3	3	25070
17	FLAT WASHER; 5/16, GR. 5, ZINC	3	3	3	3	!FWSH-031
18	LOCK NUT; 5/16-18, GR. 5, ZINC, NYLON-INSERT	3	3	3	3	!LNUT-03118
19	ADAPTER FITTING; 90° ELBOW, 6MO-6MJ	1	1	1	1	H6801L-0606
20	ADAPTER FITTING; COUPLING SWIVEL, 6FJX-6F,	1	1	1	1	H6565-0606
21	ADAPTER FITTING; ADAPTER, 6MJ-8MP	1	1	1	1	H2404-0608
22	ADAPTER FITTING; 90° ELBOW, 6MO-4MJ	1	1	1	1	H6801-0406
23	ADAPTER FITTING; T-SHAPE, 4MJ-4FJX-4MJ	1	1	1	1	H6602-040404
24	ADAPTER FITTING; CONNECTOR, 6MO-4MJ	1	1	1	1	H6400-0406
25	ADAPTER FITTING; 90° ELBOW, 4MJ-4FX	1	1	1	1	H6500-0404
26	-	-	ı	-	1	_
27	CLEVIS PIN; 3/4 X 4 1/2	2	2	2	2	25242
28	RUE RING COTTER	4	4	4	4	25187

REFERENCE 25453 PARTS DRAWING

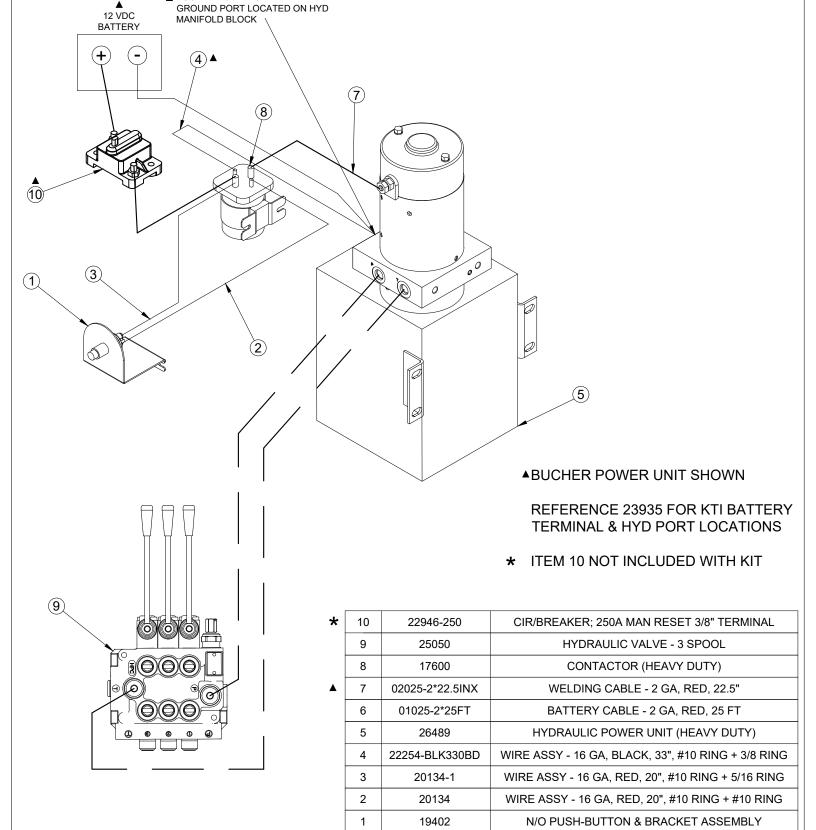


١		DATE	PAGE
	PARTS BREAKDOWN	11-13-25D	-
		SUPERSEDES	05450
	25100 SERIES HYD. LEGS	09-05-24C	25452



# 25477-1 "PHXE" KIT

▲ BUCHER POWER UNIT BATTERY



<b>ENTURO</b> <sup>®</sup>
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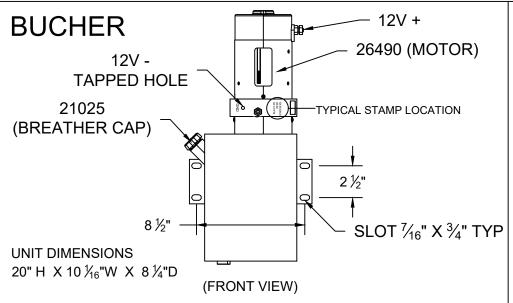
TITLE A	DATE	<b>A</b>	
PHXE HYD PWR UNIT KIT	11-06-25A	-	
<b>A</b>	SUPERSEDES		05470
25000-PHX (E) SERIES STAB.	07-31-25		25478

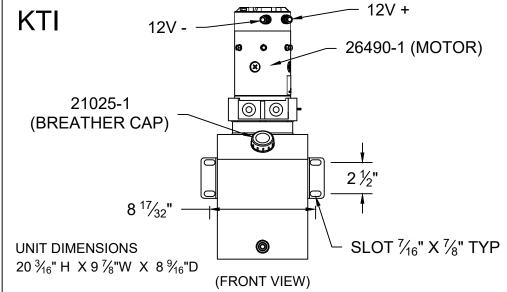
**DESCRIPTION** 

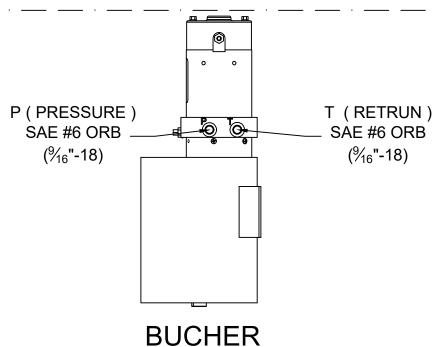
ITEM

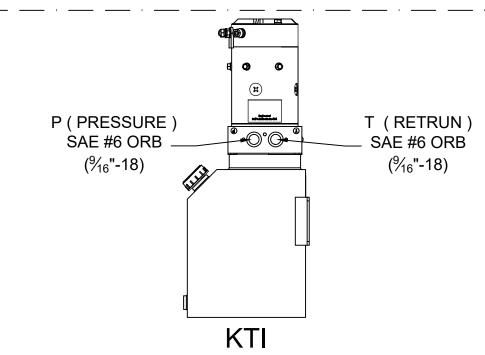
PART NO.

# 26489 HYD. POWER UNIT REPLACEMENT PARTS











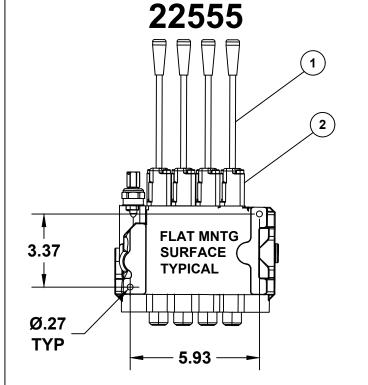
VENCO VENTURO LLC

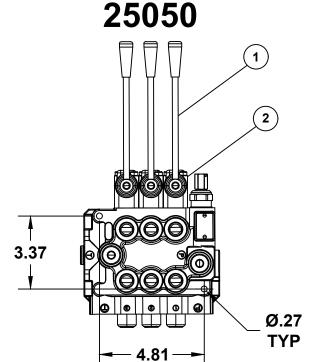
CINCINNATI, OHIO

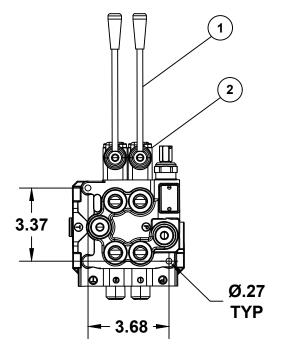
HYDRAULIC POWER UNIT REPLACEMENT PARTS

SECTION C400 11-06-25 SUPERSEDES

25000 PHXE SERIES STABILIZERS





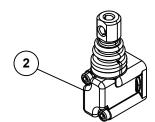


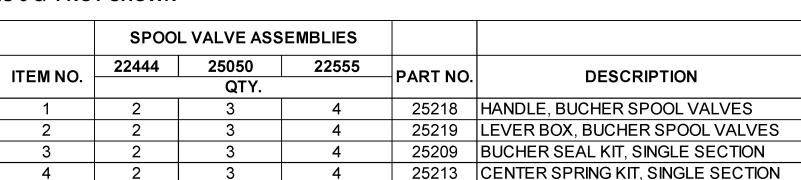
(5.90)

22444

NOTE: P/N 25219 INCLUDES MNTG HARDWARE









MANUFACTURING, INC. CINCINNATI, OHIO

TITLE	DATE	PAGE		
REPLACEMENT PARTS - SPOOL VALVES	09-24-25	-		
POWERED STABILIZERS (PH, PHX, PHXD)	SUPERSEDES -	25216		

# **VENTURO CRANES LIMITED WARRANTY POLICY**



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

As a purchaser of any new Venturo product covered by warranty, you will receive 1 year of the most complete coverage available...and, at no added cost to you.

# 1-Year Limited Warranty Policy

This limited policy warrants new products of Venturo to be free from defects in material and workmanship for a period of one (1) year from date of original installation. OEM products or accessories purchased by Venturo 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. 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 Venturo 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, Venturo requires the model and serial number. Only authorized Venturo Distributors can perform warranty. For the name and address of your local Venturo 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 Venturo Distributor. No modifications or alterations may be made to any Venturo product without the expressed written consent of Venco Venturo Industries LLC. Installation of any Venturo product must be done by an authorized Venturo 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

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