

PARTS & INSTALLATION MANUAL

HT60KX-30

Included in this manual:

HT60KX-30 (VLC)

- 10,000 lb Hydraulic Telescopic Service Crane
- Venturo Logic Control System w/ Proportional Control
- 30 ft Fully-Powered, Two-Stage Boom Extension

VENCO VENTURO INDUSTRIES LLC
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800-226-2238



This manual also available online at www.venturo.com.

HT60KX-30' VLC

INST-28427 - 4/5/2024 (Rev: A3)

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SECTION 100

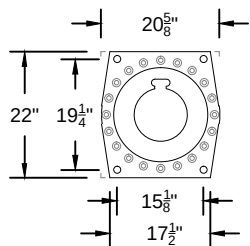
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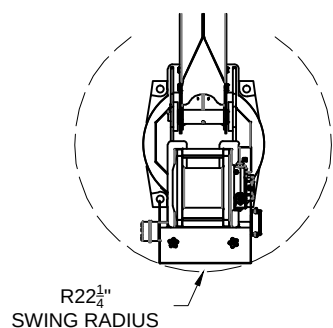
SPECIFICATIONS



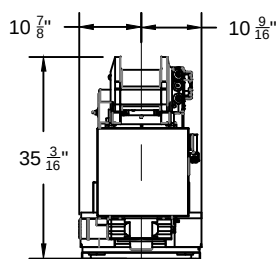
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO



BASE MOUNTING DIMENSIONS

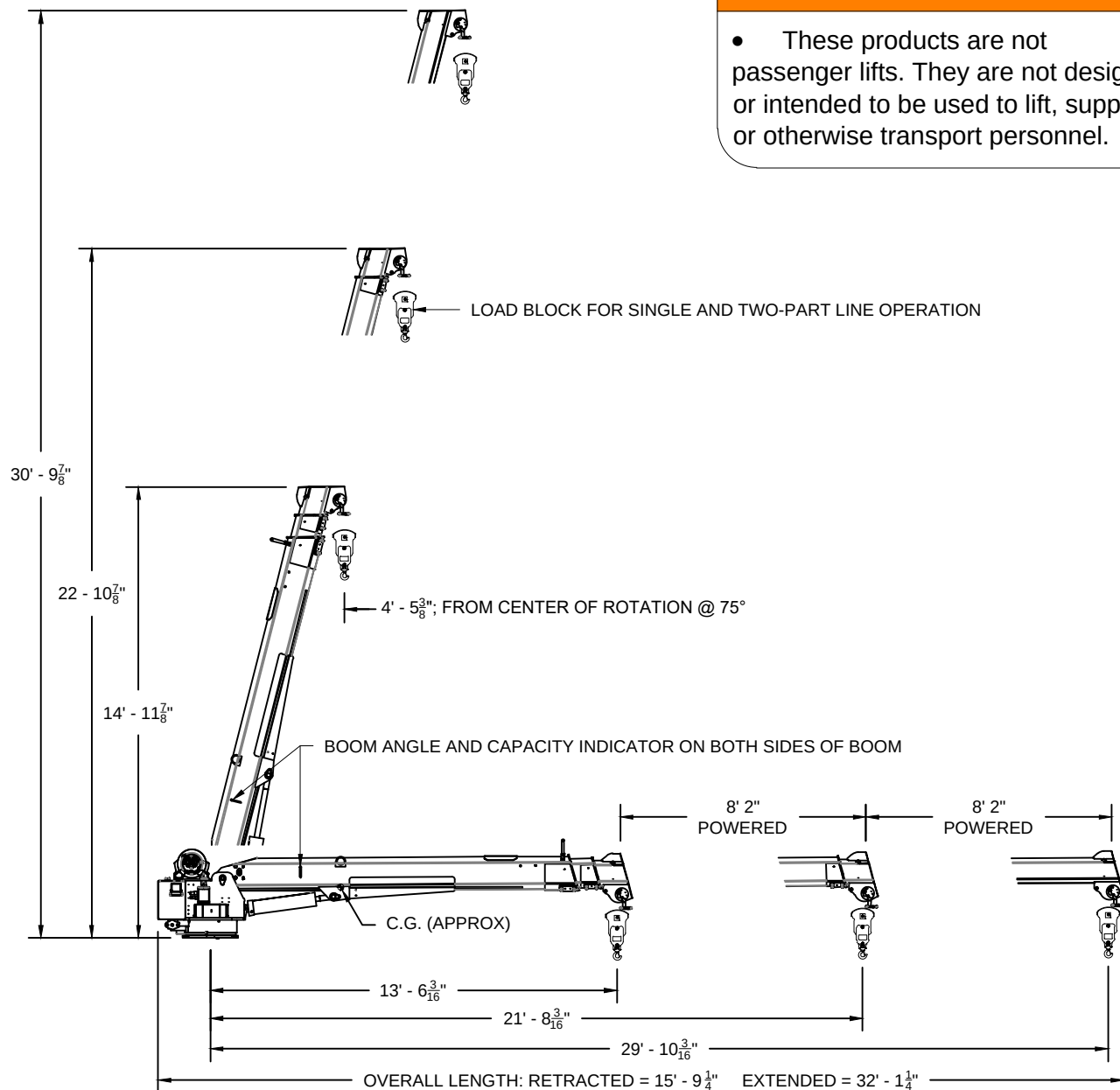


R22 ¹/₄"
SWING RADIUS



CENTER OF ROTATION

THIS SECTION SCALED 2:1 FOR CLARITY



WARNING

- These products are not passenger lifts. They are not designed or intended to be used to lift, support, or otherwise transport personnel.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
INSTALLATION DIMENSIONS

HT60KX-30' SERIES CRANES

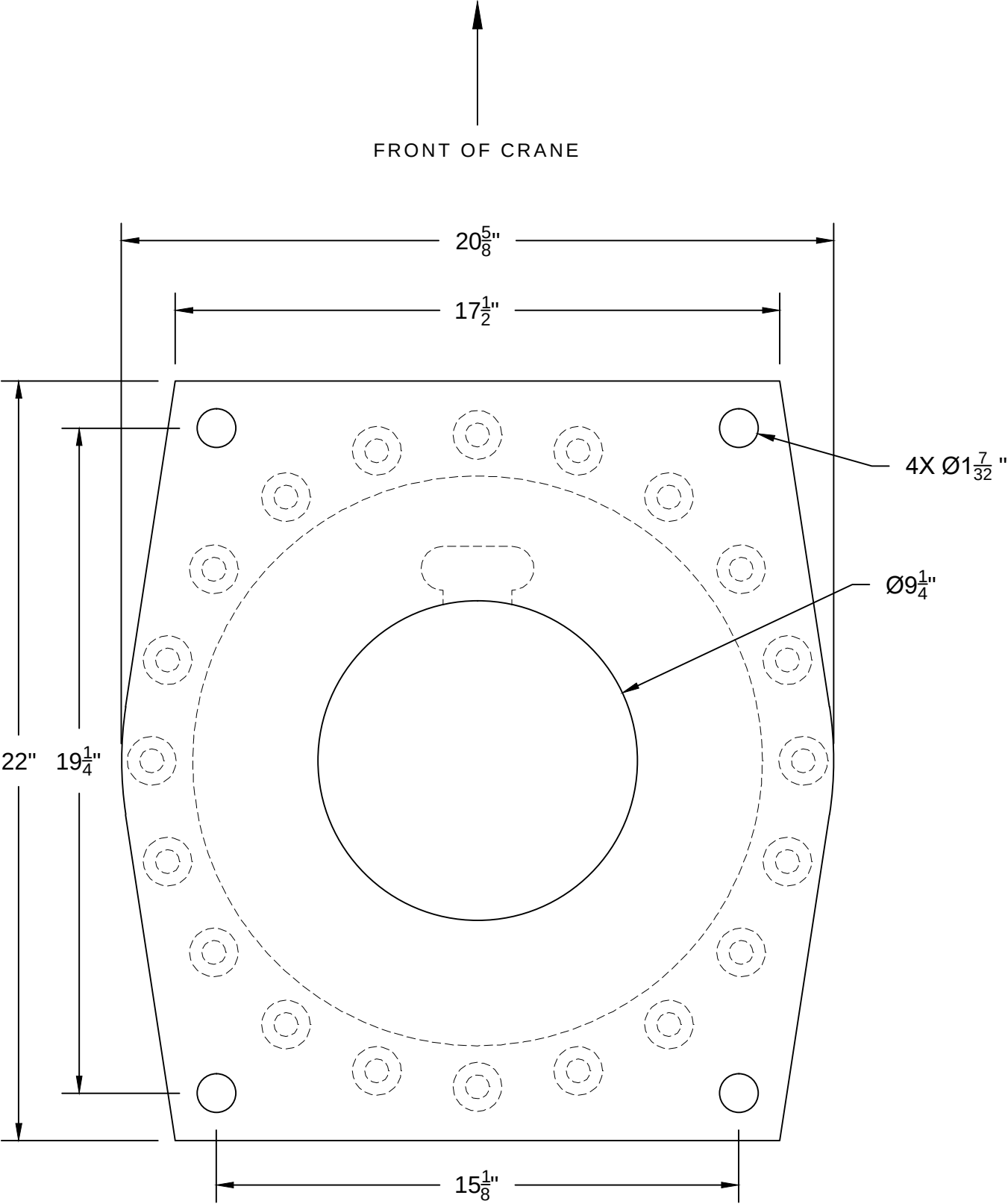
DATE
11-29-22

SUPERSEDES
-

SECTION
C100

28420

HT60/66KX VLC SERIES BASE MOUNTING DIMS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
BASE MOUNTING DIMS
HT60/66KX VLC SERIES

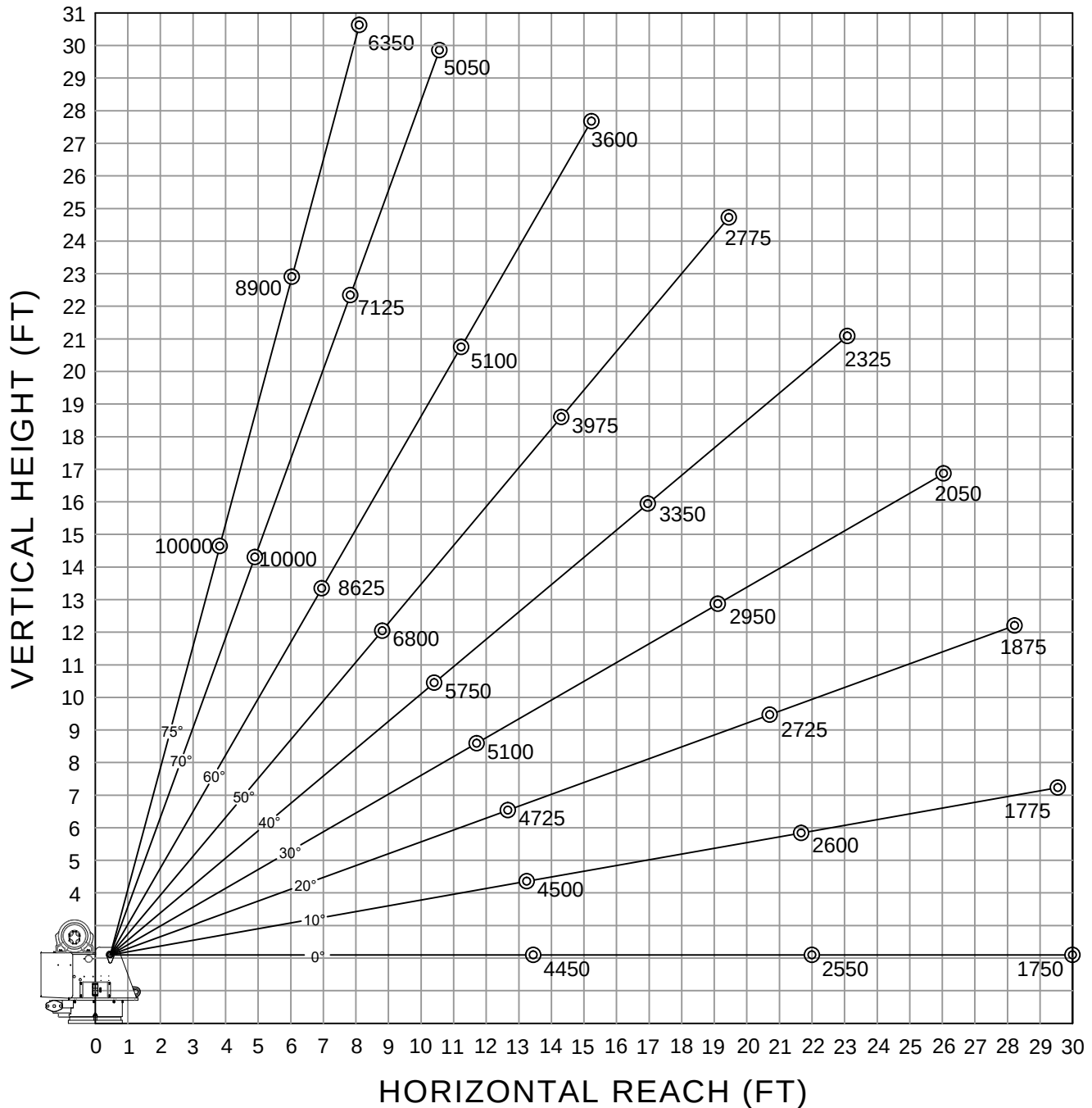
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SUPERSEDES
02-06-19

SECTION
C100
23802

HT60KX, 13' - 22' - 30' BOOM, WITH VENTURO LOGIC CONTROL SYSTEM

CRANE SERIAL NUMBER: _____

MAXIMUM LOAD CAPACITY CHART



WEIGHT OF LOAD HANDLING DEVICES ARE PART OF THE LOAD AND MUST BE DEDUCTED FROM THE GROSS CAPACITY.

LOAD BLOCK USAGE

1-PART LINE FOR LOADS LESS THAN 5000 LBS

2-PART LINE FOR LOADS OF 5000 LBS AND GREATER

WEIGHT OF LOAD BLOCK = 51 LBS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MAXIMUM LOAD CAPACITY

HT60KX-30' BOOM, VLC

DATE
03-20-23

SUPERSEDES
-

SECTION
C100

28424

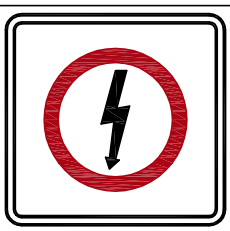
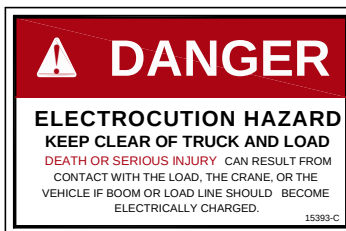
SECTION 150

SAFETY

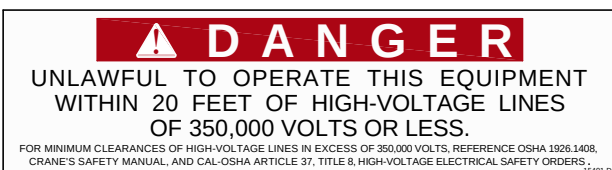


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VEHICLE & CRANE MOUNTED ELECTRICAL HAZARD SIGN APPLICATION & INFORMATION



SIGN NO. 15393 DISPLAYS THE INTERNATIONAL SYMBOL FOR ELECTRICITY AND WARNS OF DANGER FROM AN ELECTRICALLY CHARGED VEHICLE, CRANE, OR LOAD. FOUR ARE RECOMMENDED (ONE FOR EACH SIDE AND ONE FOR EACH END OF VEHICLE) TO BE APPLIED IN LOCATIONS WHICH ARE READILY VISIBLE TO GROUND PERSONNEL.



SIGN NO. 15401 PROVIDES ADDITIONAL WARNING OF LEGAL REQUIREMENTS WHEN OPERATING NEAR HIGH VOLTAGE LINES. THIS SIGN IS PLACED ON THE CONTROL PENDANT SIDE OF BOOM.

Table A - Minimum Clearance Distances

Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet) *
Up to 50.....	10
over 50 - 200.....	15
over 200 - 350.....	20
over 350 - 500.....	25
over 500 - 750.....	35
over 750 - 1000.....	45
Over 1000.....	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

Table T - Minimum Clearance Distances While Traveling With No Load

Voltage (nominal, kV, alternating current)	While traveling - minimum clearance distance (feet) *
0 - 0.75.....	4
over 0.75 - 50.....	6
over 50 - 345.....	10
over 345 - 750.....	16
over 750 - 1000.....	20
Over 1000.....	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

* NOTE: ENVIRONMENTAL CONDITIONS SUCH AS FOG, SMOKE, OR PRECIPITATION MAY REQUIRE INCREASED CLEARANCES



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TITLE	DATE	SECTION
HAZARD APPS & INFO	02-21-14M	C150
ET/HT CRANES	SUPERSEDES 12-20-13L	15394

CRANE SAFETY AND HAZARDS

HT SERIES CRANES

CAUTIONS

1. INSPECT VEHICLE AND CRANE, INCLUDING OPERATION, PRIOR TO USE DAILY.
2. DO NOT USE THIS EQUIPMENT EXCEPT ON SOLID, LEVEL SURFACE WITH CRANE MOUNTED ON FACTORY-RECOMMENDED TRUCK.
3. BEFORE OPERATING THE CRANE, REFER TO MAXIMUM LOAD (CAPACITY) CHART ON CRANE FOR OPERATING (LOAD) LIMITATIONS.
4. DO NOT OPERATE, WALK, OR STAND BENEATH BOOM OR A SUSPENDED LOAD.
5. ATTACH PENDANT CORD SUPPORT SNAP TO ATTACHMENT POINT BEFORE PLUGGING IN PENDANT.
6. UNPLUG PENDANT AND DISENGAGE PTO SYSTEM WHEN CRANE NOT IN USE.
7. FOR TRAVEL, BOOM MUST BE IN STOWED POSITION.

DANGER

- THIS CRANE IS NOT A PASSENGER LIFT
- IT IS NOT DESIGNED OR INTENDED TO BE USED TO LIFT, SUPPORT, OR OTHERWISE TRANSPORT PERSONNEL.

YOU MUST NOT OPERATE THIS CRANE UNLESS

1. YOU HAVE BEEN TRAINED IN THE SAFE OPERATION OF THIS CRANE
AND
2. YOU KNOW AND FOLLOW THE SAFETY AND OPERATING RECOMMENDATIONS CONTAINED IN THE MANUFACTURER'S MANUALS, YOUR EMPLOYER'S WORK RULES, AND APPLICABLE GOVERNMENT REGULATIONS. AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.

ELECTROCUTION HAZARD

- THIS MACHINE IS NOT INSULATED.
- MAINTAIN SAFE CLEARANCES FROM ELECTRICAL LINES AND APPARATUS.
- YOU MUST ALLOW FOR BOOM SWAY, ROCK OR SAG, AND ELECTRICAL LINE AND LOADLINE SWAYING.
- THIS LIFTING DEVICE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.
- YOU MUST MAINTAIN A CLEARANCE OF AT LEAST 20 FEET BETWEEN ANY PART OF THE CRANE, LOADLINE, OR LOAD, AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 350 kV (SEE NEW CHART). ADDITIONAL CLEARANCES ARE REQUIRED FOR VOLTAGES IN EXCESS OF 50,000 VOLTS. REFER TO DRAWING 15394 FOR ADDITIONAL INFORMATION.
- **DEATH OR SERIOUS INJURY** WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE.



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TITLE

CRANE SAFETY & HZRDS

DATE

02-21-14D

SECTION

C150

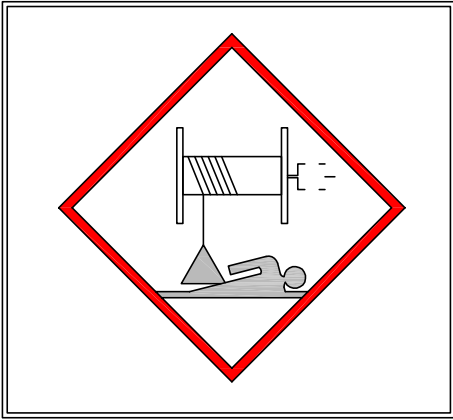
HYDRAULIC CRANES

SUPERSEDES

04-04-12C

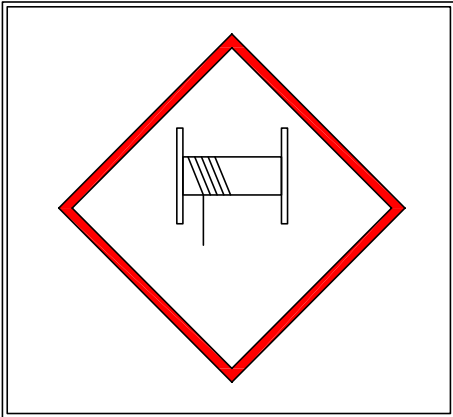
920612

WINCH SAFETY WARNINGS



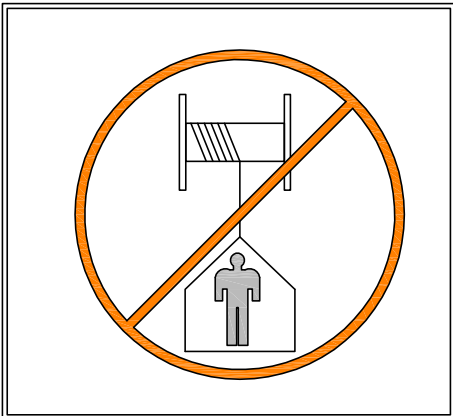
DANGER

- DO NOT DISENGAGE WINCH UNDER LOAD



DANGER

- THE LAST [5] (DEAD) WRAPS OF WIRE ROPE MUST BE LEFT ON TO ASSIST WIRE ROPE CLAMP IN HOLDING LOAD



WARNING

- Winches are not to be used to lift, support, or otherwise transport personnel



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TITLE
WINCH SAFETY
HT CRANES

DATE
02-21-14D
SUPERSEDES
04-04-12C

SECTION
C150
19217

PART NO.: 15398

DECAL: UNPLUG REMOTE CONTROL

FUNCTION: To inform the operator to unplug remote control when not being used.

QUANTITY: 1

PLACEMENT: Right side of housing.



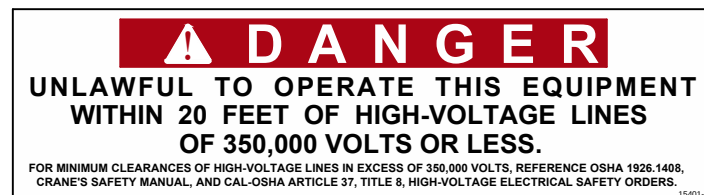
PART NO.: 15401

DECAL: UNLAWFUL TO OPERATE

FUNCTION: To inform the operator of proper operation in vicinity of power lines.

QUANTITY: 1

PLACEMENT: Right side of housing.



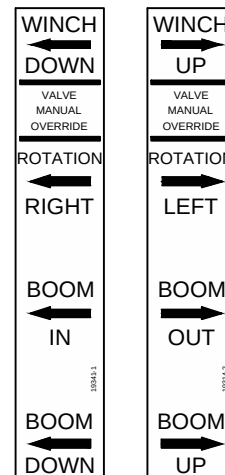
PART NO.: 19314-1 [LEFT] & -2 [RIGHT]

DECAL: MANUAL OVERRIDE (NON-PROP)

FUNCTION: To inform the operator of manual override locations.

QUANTITY: 1 EACH

PLACEMENT: Inside of rear cover.



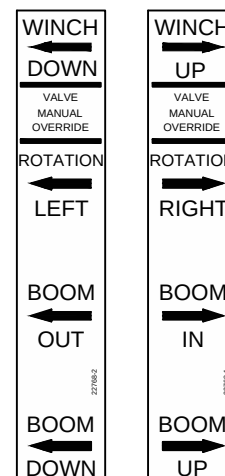
PART NO.: 22768-1 [LEFT] & -2 [RIGHT]

DECAL: MANUAL OVERRIDE (PROPORTIONAL)

FUNCTION: To inform the operator of manual override locations.

QUANTITY: 1

PLACEMENT: Inside of rear cover.



VENCO VENTURO INDUSTRIES LLC
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TITLE
DECAL DRAWING & LIST

HT40/50/60/66 SERIES

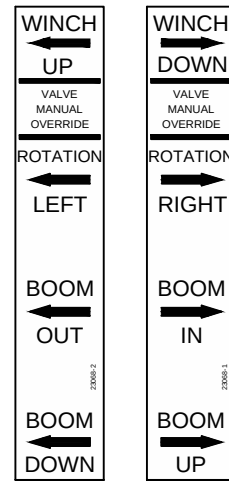
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SUPERSEDES
02-21-14D

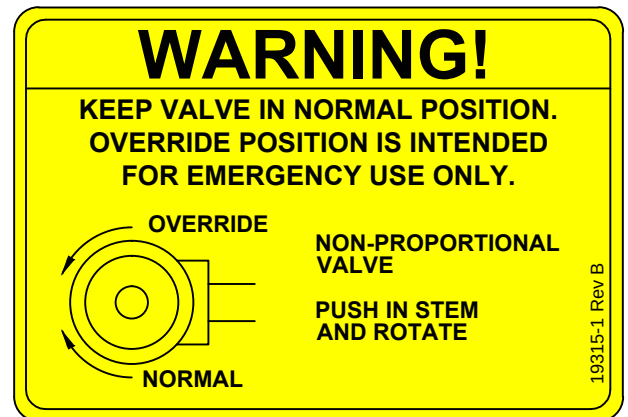
SECTION
C150

22181A

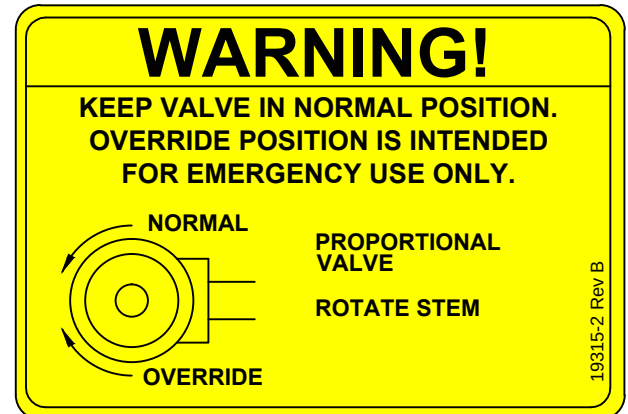
▲
PART NO.: 23068-1 [LEFT] & -2 [RIGHT]
DECAL: MANUAL OVERRIDE
 (HT66KXX w/ TH-2 Winch ONLY)
FUNCTION: To inform the operator of
 manual override locations.
QUANTITY: 1
PLACEMENT: Inside of rear cover.



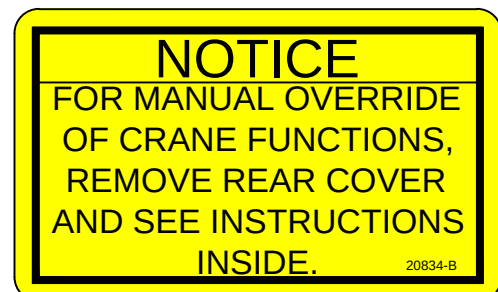
PART NO.: 19315-1
DECAL: SHUT OFF (NON-PROPORTIONAL)
FUNCTION: To show the operator how to
 override master shut off valve.
QUANTITY: 1
PLACEMENT: Inside rear cover.



PART NO.: 19315-2
DECAL: MANUAL OVERRIDE (PROPORTIONAL)
FUNCTION: To show the operator how to
 override proportional valve.
QUANTITY: 1
PLACEMENT: Inside rear cover.



PART NO.: 20834
DECAL: MANUAL OVERRIDE NOTICE
FUNCTION: To inform the operator of
 manual override locations.
QUANTITY: 1
PLACEMENT: Inside rear cover.



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TITLE
DECAL DRAWING & LIST

HT40/50/60/66 SERIES

DATE
 04-14-23H

SUPERSEDES
 11-30-22G

SECTION
 C150

22181B

PART NO.: 15390

DECAL: CAUTION - INSPECT VEHICLE & CRANE

FUNCTION: To inform the operator of key operating requirements.

QUANTITY: 1

PLACEMENT:Left side of rear cover.



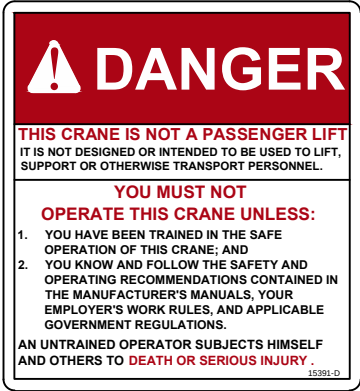
PART NO.: 15391

DECAL: DANGER - NOT PASSENGER LIFT

FUNCTION: To inform the operator not to lift, support or transport personnel, and to ensure that crane operator is adequately trained.

QUANTITY: 1

PLACEMENT:Left side of rear cover.



PART NO.: 15392

DECAL: DANGER - ELECTROCUTION HAZARD

FUNCTION: To inform the operator that the machine (crane) represents an electrocution hazard should it come too near or in contact with electrical voltage source.

QUANTITY: 1

PLACEMENT:Left side of rear cover.



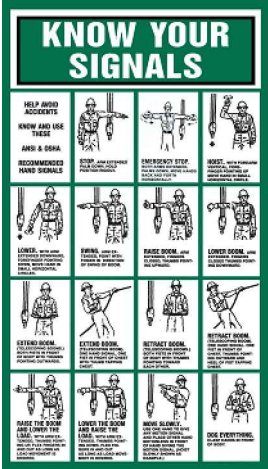
PART NO.: 22499

DECAL: KNOW YOUR SIGNALS

FUNCTION: To inform the operator of proper signals.

QUANTITY: 1

PLACEMENT:Right side of rear cover.



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TITLE
DECAL DRAWING & LIST
HT40/50/60/66 SERIES

DATE
11-30-22F
SUPERSEDES
02-21-14E

SECTION
C150
22181C

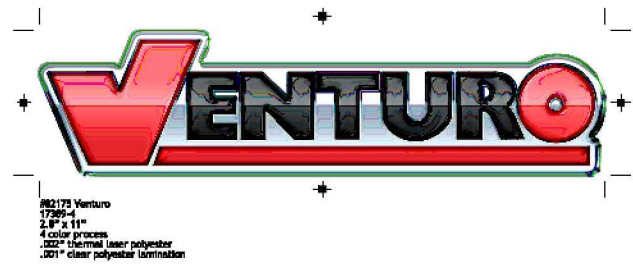
PART NO.: 17389

DECAL: MEDIUM VENTURO

FUNCTION: Branding.

QUANTITY: 1

PLACEMENT: Rear cover.



PART NO.: 24912

DECAL: HT60 MODEL DECAL

FUNCTION: Branding.

QUANTITY: 2

PLACEMENT: Boom.



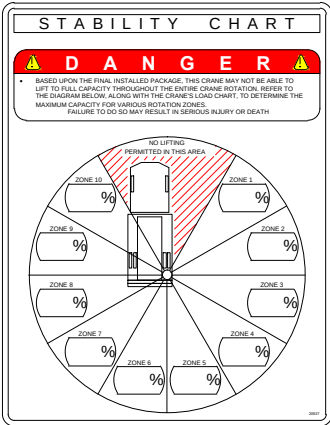
PART NO.: 20927

DECAL: CRANE STABILITY

FUNCTION: To inform the operator of the crane's lifting capacity throughout the entire rotation.

QUANTITY: 1

PLACEMENT: In prominent location, so it is easily seen and readily identifiable.



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TITLE
DECAL DRAWING & LIST
HT60 SERIES

DATE
03-22-23
SUPERSEDES
-

SECTION
C150
28443

PART NO.: 24914-L & 24914-R

DECAL: HT60-25' CRANE CAPACITY

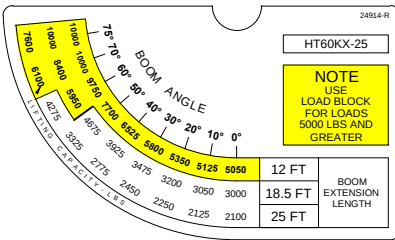
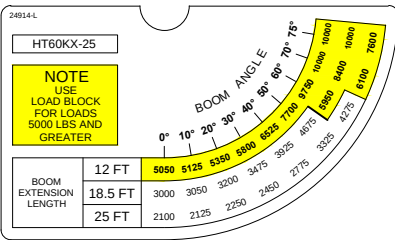
FUNCTION: To show the operator the operating capacities of the crane

QUANTITY: 1 each

PLACEMENT: Right side of boom, Left side of boom

LEFT SIDE OF BOOM

RIGHT SIDE OF BOOM



24914-L

24914-R

PART NO.: 24915-L & 24915-R

DECAL: HT60-30' CRANE CAPACITY

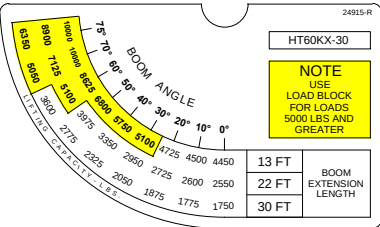
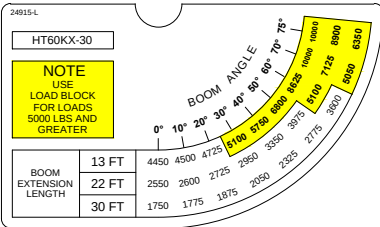
FUNCTION: To show the operator the operating capacities of the crane

QUANTITY: 1 each

PLACEMENT: Right side of boom, Left side of boom

LEFT SIDE OF BOOM

RIGHT SIDE OF BOOM



24915-L

24915-R

S P A C E I N T E N T I O N A L L Y L E F T B L A N K

S P A C E I N T E N T I O N A L L Y L E F T B L A N K



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
BOOM CAPACITY DECALS
HT60KX VLC SERIES

DATE
11-10-22
SUPERSEDES
-

SECTION
C150
28425

▲

PART NO.: 23742

DECAL: VLC, 2.94" x 6.00"

FUNCTION: To show that the crane is equipped with Venturo Logic Controls

QUANTITY: 2 each

PLACEMENT: Each side of Housing



▲

S P A C E I N T E N T I O N A L L Y L E F T B L A N K

S P A C E I N T E N T I O N A L L Y L E F T B L A N K

S P A C E I N T E N T I O N A L L Y L E F T B L A N K



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CINCINNATI, OHIO

TITLE

VLC DECALS

DATE

02-06-19A

SECTION

C150

SUPERSEDES

10-11-18

VLC SERIES CRANES

23748

SECTION 200

INSTALLATION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

CRANE INSTALLATION, PAGE 1

HT60KX-30' VLC SERIES

BODY REINFORCEMENT

The truck body must be reinforced and outriggers provided to withstand the combined loads resulting from lifting and the weight of the crane and boom.

The maximum combined overturning moment for the HT60KX is 60,000 ft. lbs.

The maximum vertical load for the HT60-30' VLC is 12,750 lbs.

CRANE MOUNTING

The crane base plate or mounting pedestal must be bolted to the body reinforcing plate with four [4] grade eight (8) bolts of 1-1/8" dia. with coarse threads, torqued to 965 foot pounds.

A 6" dia. hose clearance hole must be cut in this plate to allow the hoses to swing and coil freely.

ROTATION POSITIONING

The HT cranes are shipped with the boom rotated as shown on drawing 20051. It can be in any position that pleases the user since the boom can always reach the storage and travel position by rotating one way or the other.

HYDRAULIC CONNECTIONS

The crane is furnished with a pressure, return and a case drain hoses that come down through the center of the housing. The pressure and return hoses connect to two hydraulic swivels to prevent damage while rotating the crane right and left.



C A U T I O N



- THE CASE DRAIN HOSE MUST BE A DEDICATED RETURN HOSE UNRESTRICTED TO TANK / RESERVOIR. DO NOT 'T' INTO ANOTHER EXISTING RETURN HOSE OR DAMAGE TO THE HYD. WINCH FROM BACK-PRESSURE WILL OCCUR. BACK-PRESSURE IN EXCESS OF 200 PSI WILL DAMAGE THE HYD. WINCH.

Arrange the pressure & return hoses in the compartment below the crane so that they are connected in a relaxed position while the crane is at the midpoint of the 400 degree rotation range -- regardless of the final position of the boom during storage/travel. See installation pages 22913 for more information on hose connections.



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TITLE

CRANE INSTALLATION

HT60KX-30' VLC SERIES

DATE

11-10-22

SUPERSEDES

-

SECTION

C200

28432

CRANE INSTALLATION, PAGE 2

HT60/66 VLC SERIES CRANES

ELECTRICAL CONNECTIONS

A 9 ft. electrical power lead - intended for 12V DC only - comes down through the center of the crane base plate along with the hoses. This power lead should be slacked in the compartment so that it remains relaxed throughout the 400 degree rotation of the crane.

A 20 amp circuit breaker is mounted on the crane and protects the crane's internal wiring and solenoid coils. The 20 amp circuit breaker does not protect the 9 ft. power lead. For added protection, the 9 ft. lead can be connected to a 20 amp protected circuit that, if possible, is powered only when the vehicle engine is running.

HYDRAULIC FLUID

<u>Average Climate</u>	<u>Type of Oil</u>
Cold to Moderate	ISO Grade AW 46
Warm to Hot	ISO Grade AW 68

The fluid should have the highest anti-wear characteristics and treated to inhibit rust and oxidation.

HYDRAULIC HOSES & LINES

The minimum sizes for lines and hoses are as follows:

HYDRAULIC LINES	HT66 SERIES
PRESSURE	5/8"
RETURN	3/4"
SUCTION	1-1/4"

RESERVOIR

The PTO reservoir should have a capacity of 40 gallons fitted with 100 mesh suction screen, 10 micron return line filter, and filler/breather cap.

PTO PUMP

The PTO pump should be sized to allow an engine idle speed range that will deliver approximately 12.0 GPM for the HT60/66 VLC series. The crane's relief pressure is set at 3000 psi on the HT60 and HT66.

PTO START-UP

Before connecting the PTO system to the crane pressure and return hoses, connect the PTO pressure and return lines together at the bulkhead. Assuming 12 gal./min. with a 40 gal. reservoir, operate the PTO system for 20-25 min. to flush out the lines and filter all fluid approximately seven times.

ENGINE START/STOP & THROTTLE CONTROL

If your crane was purchased with optional engine start/stop and throttle control, refer to drawing 22615 in the replacement parts section for further information.



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CINCINNATI, OHIO

TITLE
CRANE INSTALLATION

HT60/66 VLC SERIES

DATE
11-10-22B

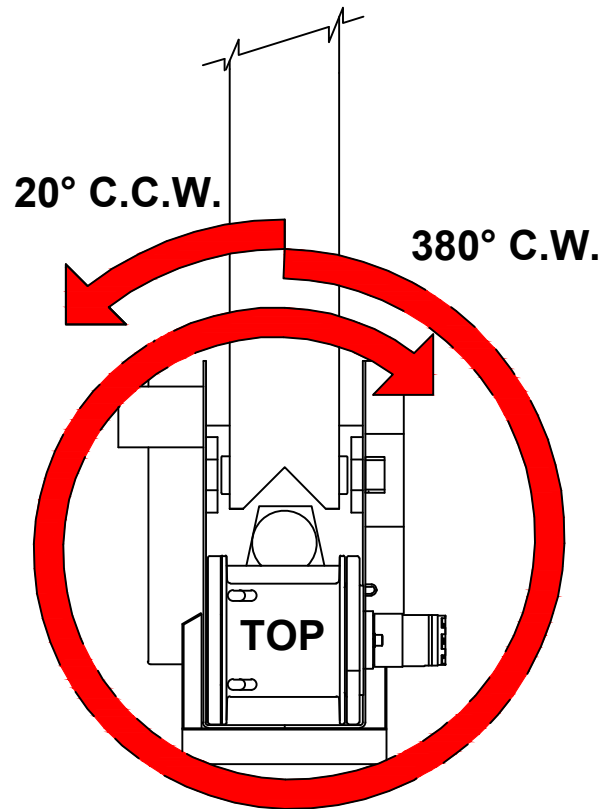
SUPERSEDES
05-10-21A

SECTION
C200

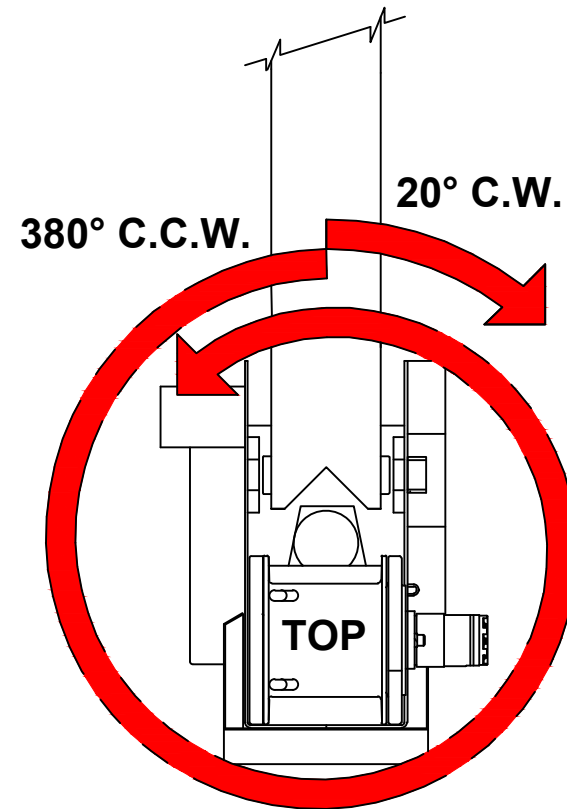
23806

400° ROTATION STOP LOCATION

CURBSIDE



STREETSIDE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
ROTATION STOP LOCATION

400° ROTATION CRANES

DATE
03-09-23F

SUPERSEDES
05-20-20E

SECTION
C200

20051

STABILITY TEST - HT60-30'-VLC SERIES

Overview

Venturo follows the guidelines of ANSI B30.5 in defining stability. Generally speaking, a truck is considered stable as long as it is not on the verge of tipping - i.e. with the truck level, at least one tire on each corner of the truck must remain in contact with the ground.

It is important to note that nearly every installation is unique and will, therefore, typically require stability testing.

The procedure outlined below follows ANSI's (B30.5 - 5-1.1.1) specified "maximum load rating" of 85% of truck stability.

Testing Procedure

1. Locate the truck on firm, level ground and set parking brake.
2. Fully deploy stabilizers, making sure they are firmly in contact with supportive ground; use stabilizer pads as required. The tires of the truck should remain in full contact with the ground.
3. Inspect wire rope and other key components of crane (consult owners manual for more information).
4. Conduct an operational check of all crane functions.
5. Use a **Test Weight** weighing a **minimum** of **2000 lbs**, (includes load block weight of **51 lbs.**) to a **maximum of 2100 lbs**.
6. Place the VLC system into **Stability Mode** (ref. VLC Manual, INST-30000, page 30005)
7. Position the boom level and fully retracted
8. Referring to the Stability Chart (drawing 20907) rotate the crane to a position between 1 and 2 o'clock (truck cab is facing 12 o'clock) to begin testing.
9. Use the winch to lift the Test Weight; DO NOT allow the weight to be more than 6" off the ground at any time during testing (for safety).
10. Using the test weight, extend the boom slowly, until one of the three conditions occur:
 - 10.1. Full extension is reached - Mark the ZONE in question **100%**
 - 10.2. The VLC system stops the boom extension - Mark the ZONE in question **100%**
 - 10.3. The truck becomes unstable i.e. a tire lifts off the ground
 - 10.3.1. Retract the boom until at least one tire on each corner of the truck is making contact with the ground
 - 10.3.2. Use the formula below to determine the allowable **% of Rated Capacity** for the ZONE in question:
11. Note: The **Max Stable Reach in inches** is measured from the **center of rotation** of the crane housing to the **lifting load hook**.
$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{358} \times 100$$
12. Record the **% of Rated Capacity** in the appropriate blank (region) on the Crane Stability page (ref. 20907) and decal.
13. Repeat Steps 7 through 12 for each ZONE on the stability page.



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TITLE

STABILITY TEST

HT60-30'-VLC SERIES

DATE

04-17-23

SUPERSEDES

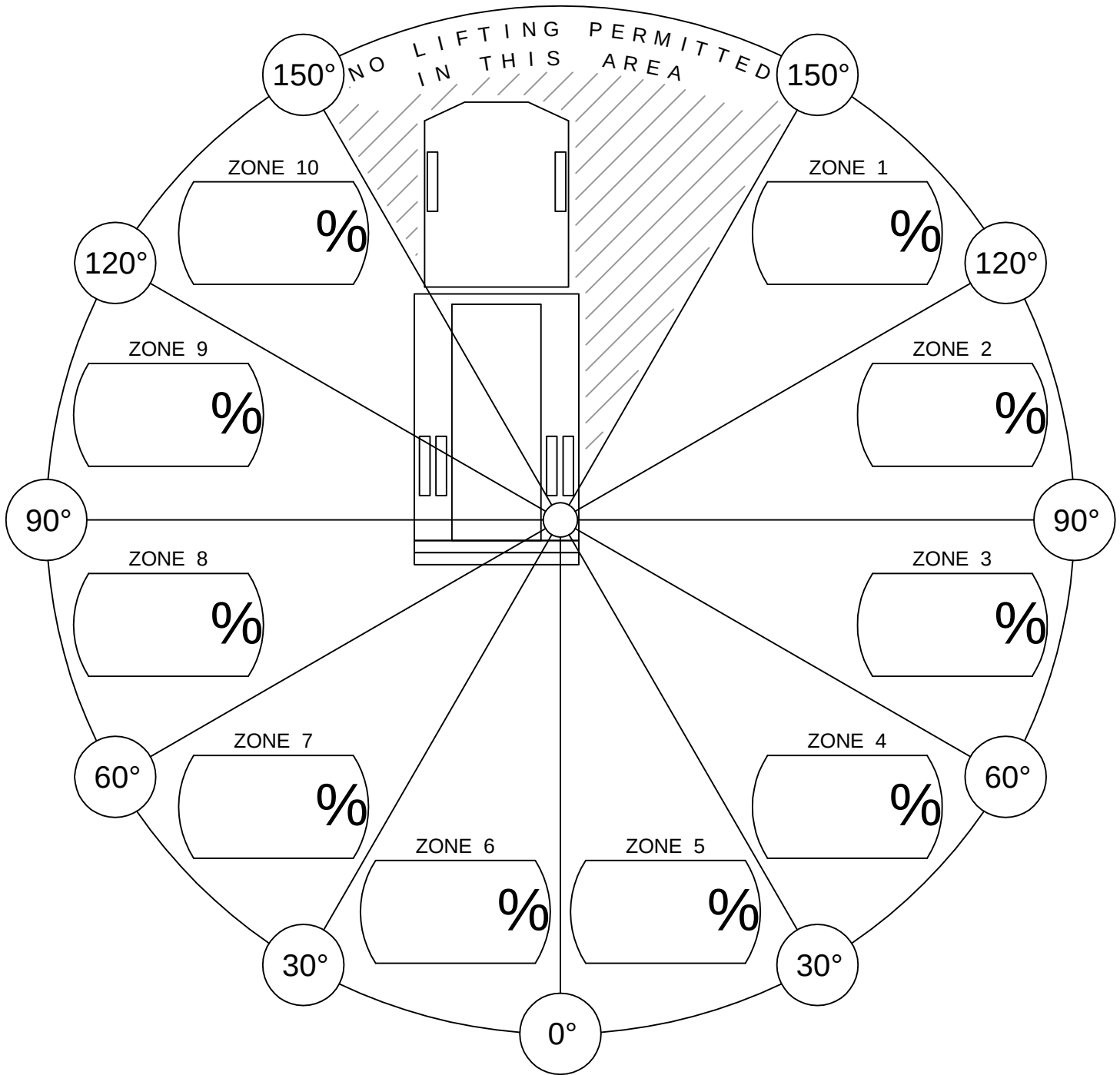
-

SECTION

C200

20906-6030

CRANE STABILITY



% of Rated Capacity for each of the 10 regions are provided above.

CONDITIONS:

- STABILIZERS FULLY EXTENDED & DOWN, ON FIRM LEVEL GROUND.



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TITLE
STABILITY CHART

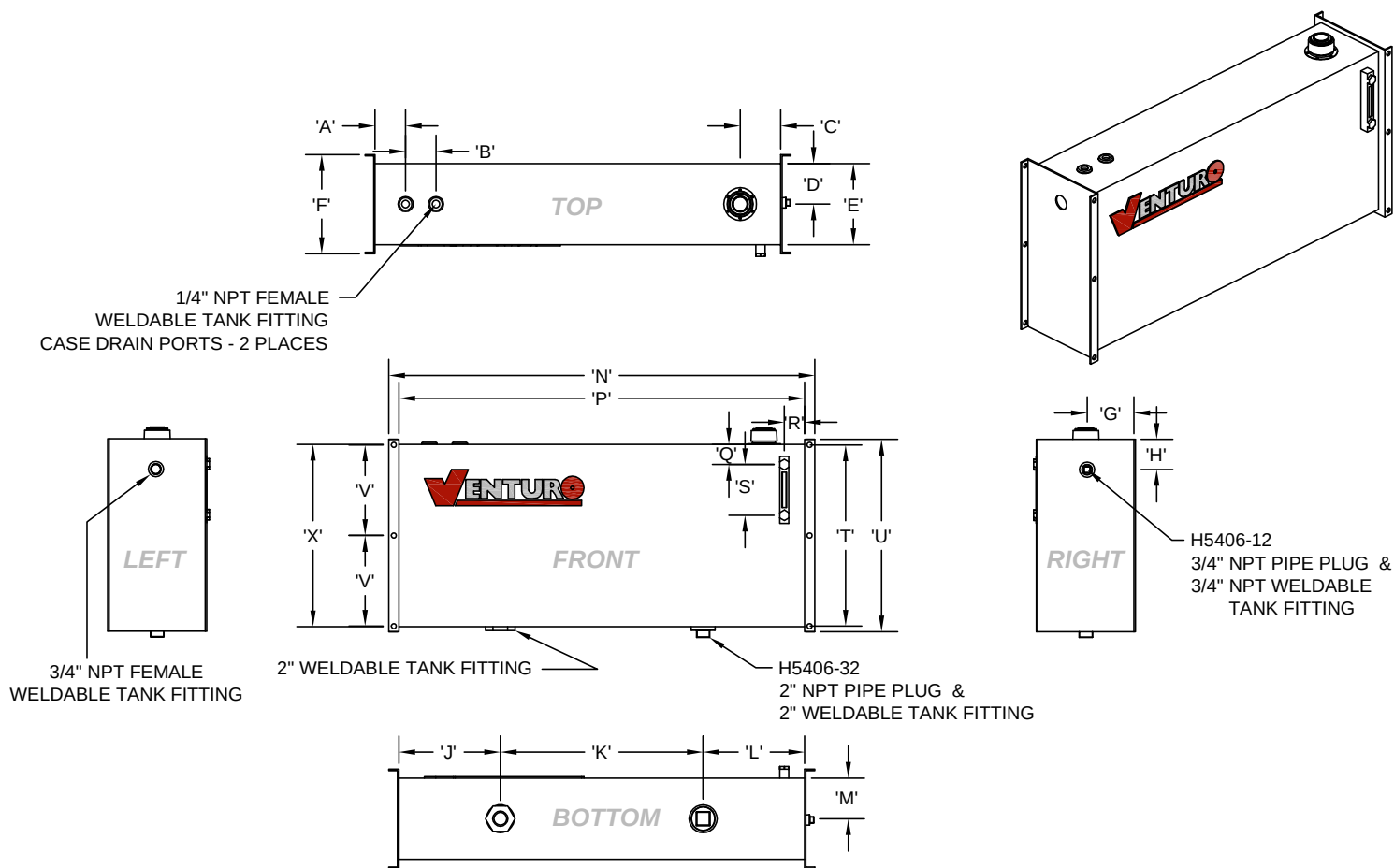
VENTURO CRANES

DATE
05-11-17F

SUPERSEDES
02-21-14E

SECTION
C200

20907



ILLUSTRATIONS FOR REFERENCE ONLY!
- COMPONENT LOCATIONS MAY DIFFER -

HYD. TANK DIMENSION (HTD) CHART			
DIMENSION \ PART NO.	22786 (25 GAL.)	22999 (40 GAL.)	
'A'	3"	3"	
'B'	3"	3"	
'C'	4"	4"	
'D'	4"	5.5"	
'E'	8"	11"	
'J'	5"	6"	
'K'	30"	30"	
'L'	5"	6"	
'M'	4"	5.5"	
'P'	40"	42"	
'Q'	2"	2"	
'R'	2"	2"	
'S'	5"	5"	
'X'	18"	20"	

MEASUREMENTS EXCLUDE MOUNTING APARATUSES

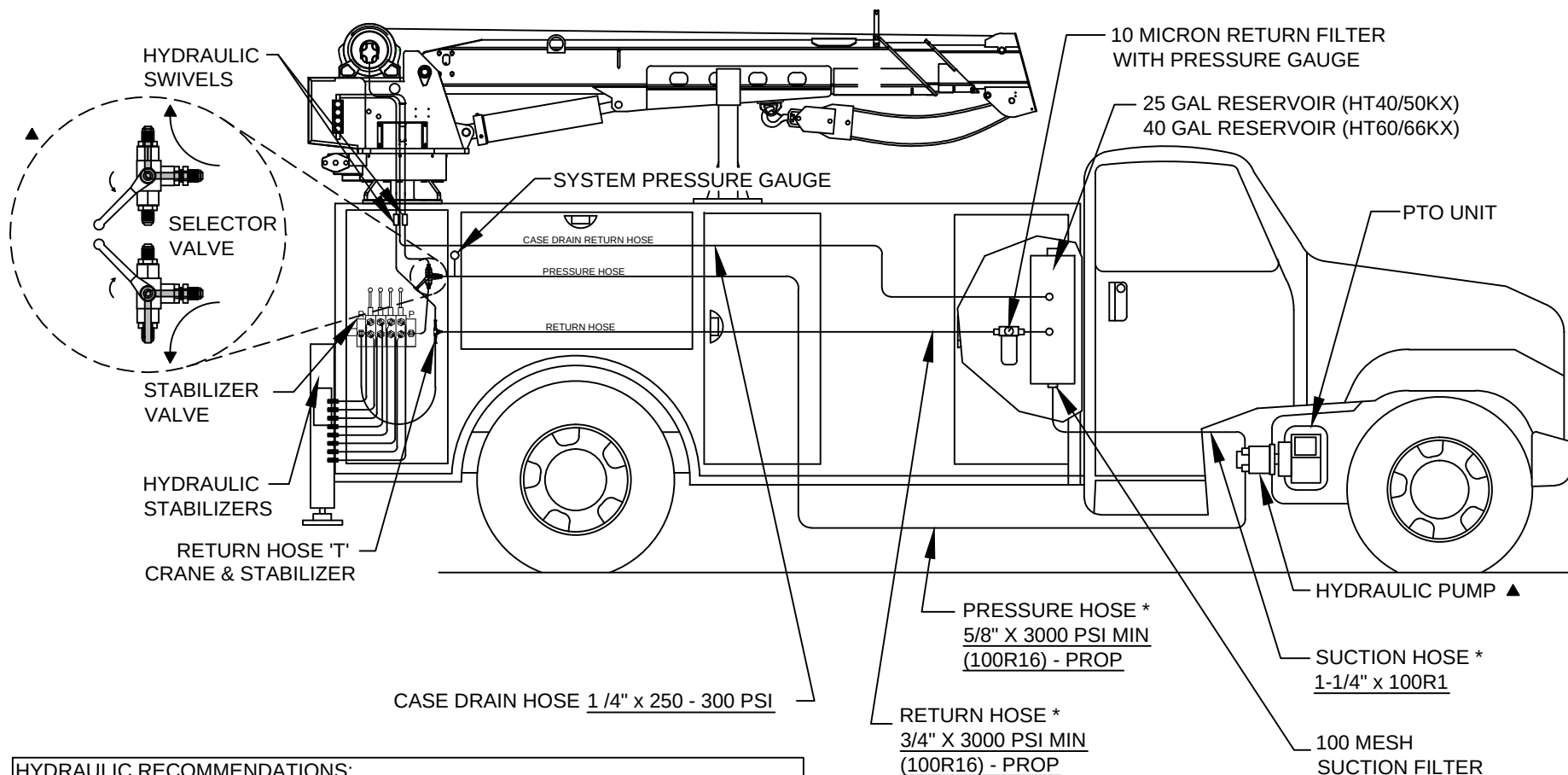
MOUNTING DIMENSION (TMD) CHART			
DIMENSION \ PART NO.	22786 (25 GAL.)	22999 (40 GAL.)	
'F'	9.75"	12"	
'G'	4.875"	6"	
'H'	3"	3"	
'N'	42"	44"	
'T'	17.875"	19.875"	
'U'	19"	21"	
'V'	8.938"	9.938"	

MEASUREMENTS INCLUDE MOUNTING APARATUSES



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
RESERVOIR DIMENSIONS	02-21-14E	C200
HYD. TANKS (25/40 GAL.)	SUPERSEDES 06-04-13D	22825



HYDRAULIC RECOMMENDATIONS:

HT40KX PROPORTIONAL - 12.0 GPM @ 3000 PSI (22784 PTO PACKAGE)
 HT50KX PROPORTIONAL - 12.0 GPM @ 3000 PSI (22784 PTO PACKAGE)
 HT60KX PROPORTIONAL - 12.0 GPM @ 3000 PSI (22998 PTO PACKAGE)
 HT66KX PROPORTIONAL - 12.0 GPM @ 3000 PSI (22998 PTO PACKAGE)



CAUTION

- SELECTOR VALVE MUST BE 'NON-CLOSED CENTER TRANSITION' TYPE.

REFER TO SECTION 200 FOR MORE INFORMATION ON INSTALLING HYDRAULIC COMPONENTS.

* HOSES AND FITTINGS BETWEEN PUMP, RESERVOIR, AND CRANE *NOT INCLUDED*.



CAUTION

- THE CASE DRAIN LINE FROM THE WINCH MUST HAVE AN UNRESTRICTED PATH TO TANK/ RESERVOIR.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

HYDRAULIC COMPONENT INSTALLATION

HT40-66, PROPORTIONAL

DATE

08-08-23G

SUPSEDES

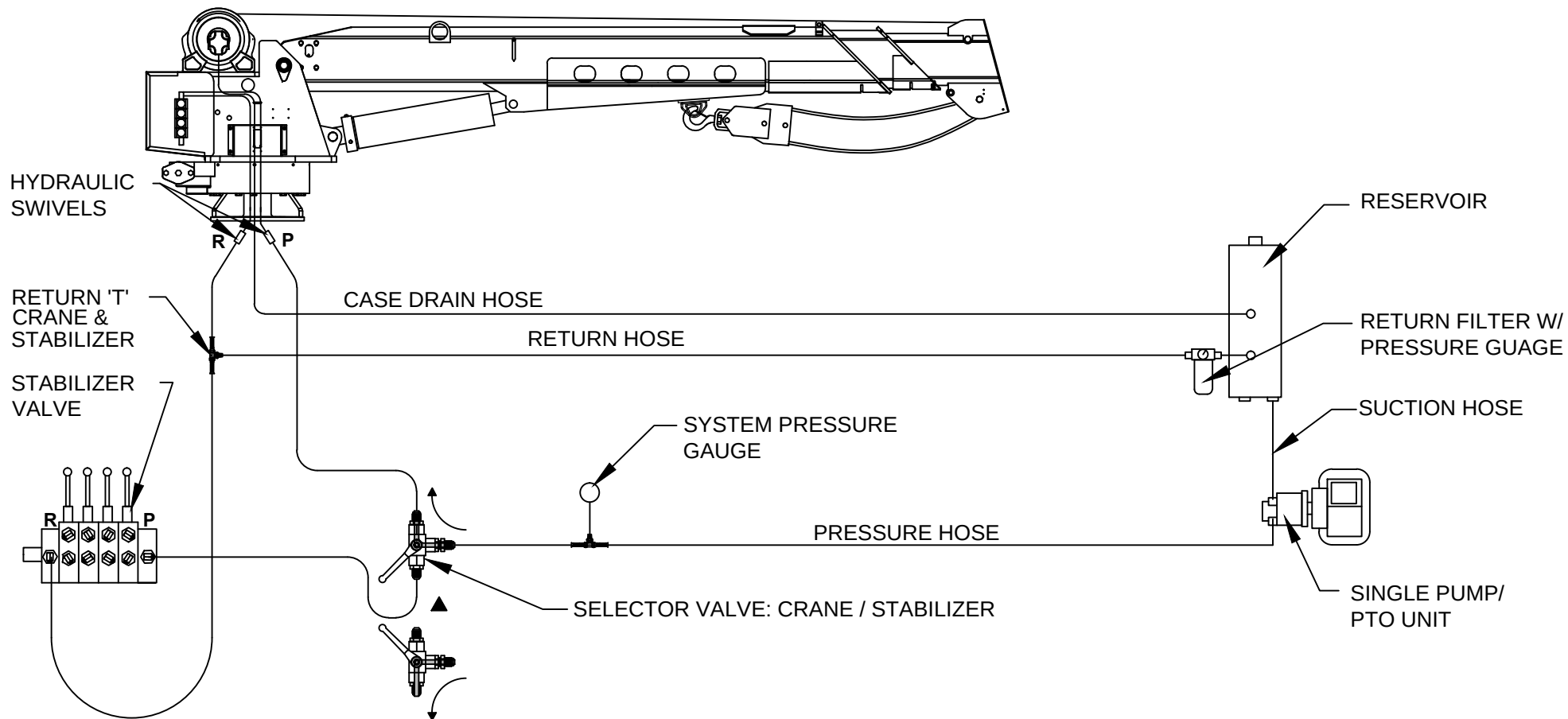
11-10-22F

SECTION

C200

22883

HYDRAULIC CIRCUIT CONNECTION GUIDE - SINGLE PUMP (NO COMPRESSOR) (REFER TO SECTION 200 FOR MORE INFORMATION, INCLUDING HOSE SPECIFICATIONS)



CAUTION

- SELECTOR VALVE MUST BE 'NON-CLOSED CENTER TRANSITION' TYPE.



CAUTION

- THE CASE DRAIN LINE FROM THE WINCH MUST HAVE AN UNRESTRICTED PATH TO TANK/ RESERVOIR.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

CONNECTION GUIDE, PAGE 1 / 2

HT CRANES

DATE

08-09-23C

SUPERSEDES

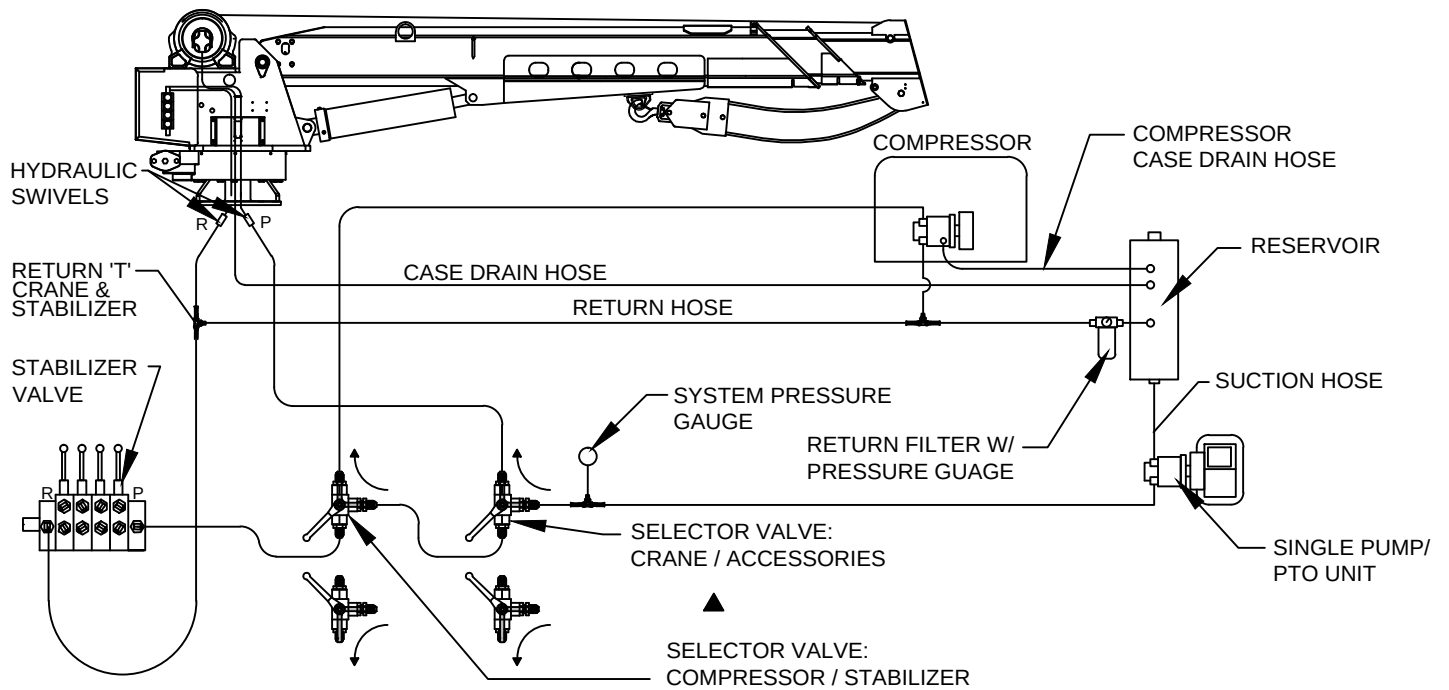
02-21-14B

SECTION

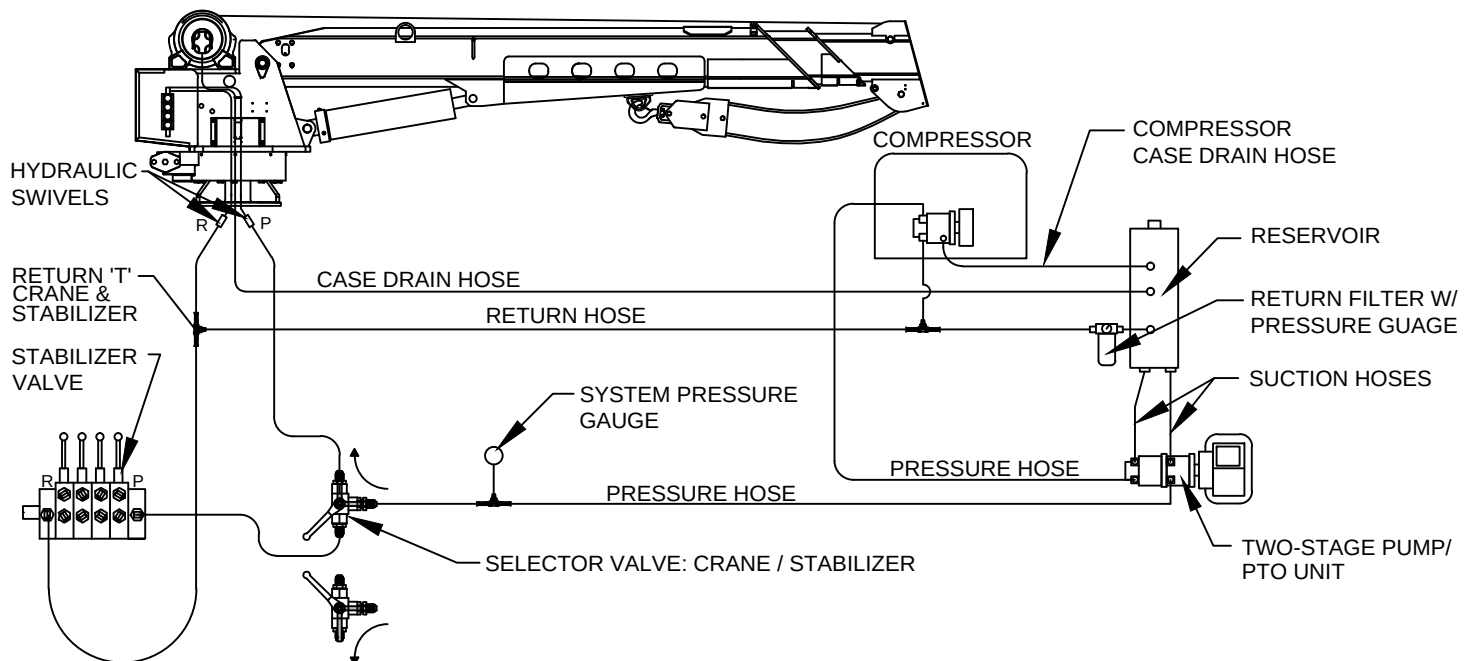
C200

23015

HYDRAULIC CIRCUIT CONNECTION GUIDE - SINGLE PUMP W/ COMPRESSOR



HYDRAULIC CIRCUIT CONNECTION GUIDE - TWO-STAGE PUMP W/ COMPRESSOR



CAUTION

- SELECTOR VALVE MUST BE 'NON-CLOSED CENTER TRANSITION' TYPE.

REFER TO SECTION 200 FOR MORE INFORMATION, INCLUDING HOSE SPECIFICATIONS



CAUTION

- THE CASE DRAIN LINE FROM THE WINCH MUST HAVE AN UNRESTRICTED PATH TO TANK/ RESERVOIR.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
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HT CRANES

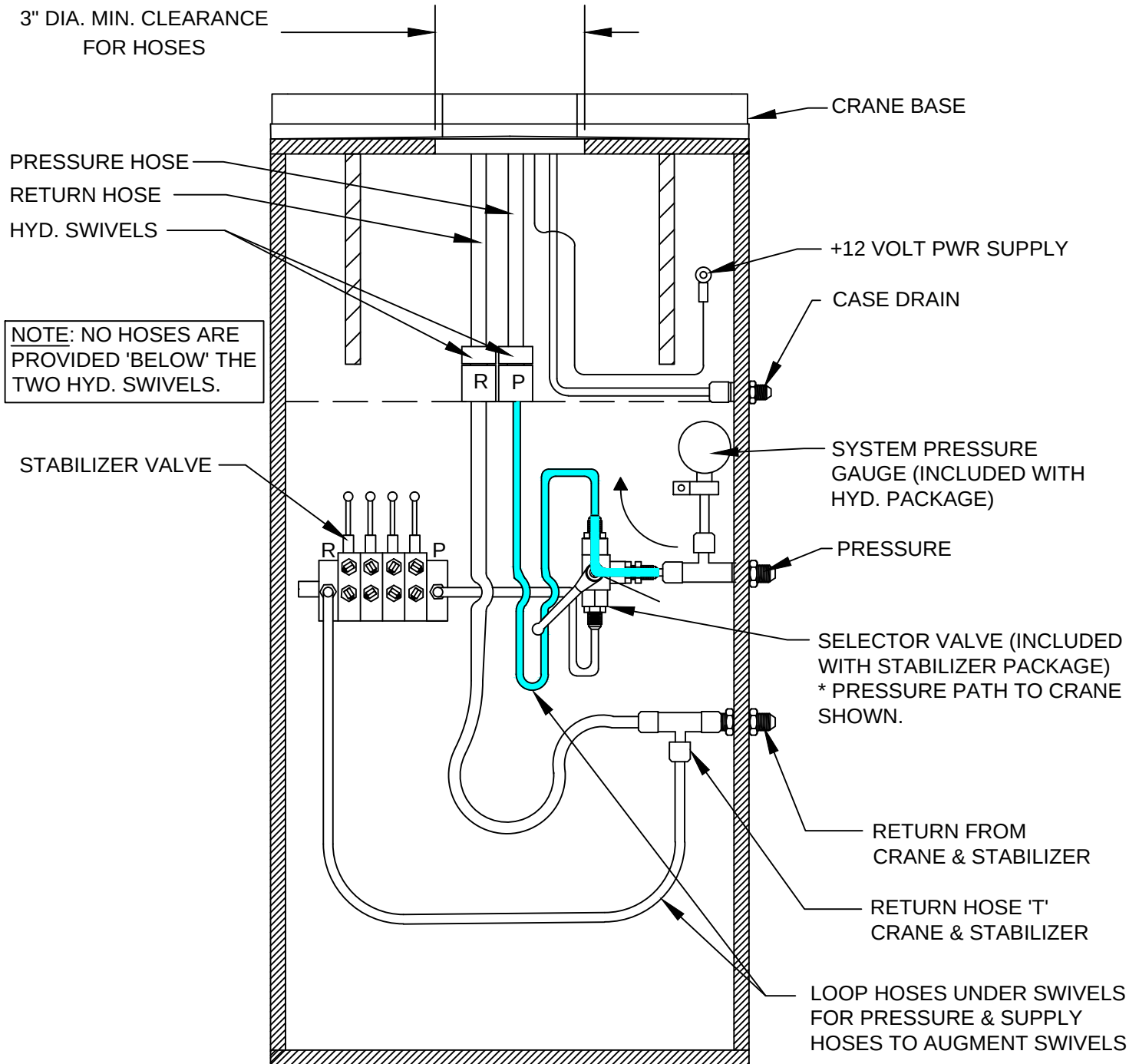
DATE
08-08-23C

SUPERSEDES
02-21-14B

SECTION
C200

23014

RECOMMENDED SUPPLY & RETURN HOSE CONNECTIONS CRANE & STABILIZERS



CAUTION

- SELECTOR VALVE MUST BE 'NON-CLOSED CENTER TRANSITION' TYPE VALVE.



CAUTION

- CASE DRAIN MUST RETURN DIRECTLY TO RESERVOIR WITHOUT RESTRICTION.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
CONNECTIONS GUIDE

HT CRANES

DATE
08-07-23G

SUPERSEDES
02-21-14F

SECTION
C200

22913

WIRE ROPE INSTALLATION

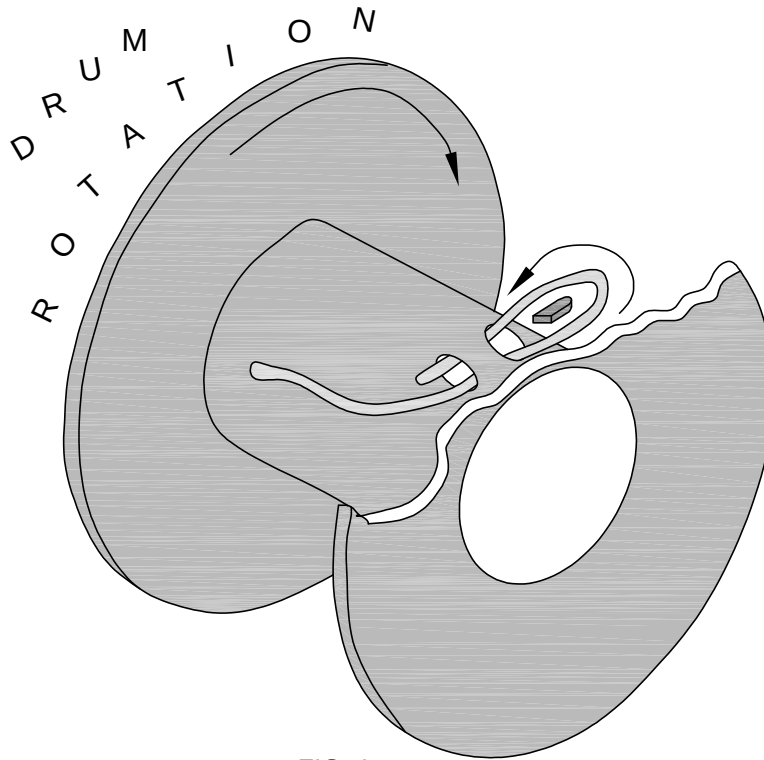


FIG. 1

- STEP 1: UNWIND COIL OF WIRE ROPE BY 'ROLLING' ALONG THE FLOOR. THIS WILL PREVENT 'KINKING'.
- STEP 2: INSERT WIRE ROPE END UP THROUGH ANTI-2-BLOCK (A2B) CAGE ASSEMBLY, BETWEEN CHEEK PLATES, OVER THE TOP SHEAVE, AND THROUGH WIRE ROPE GUIDE.
- STEP 3: INSERT WIRE ROPE END INTO POCKET OPENING ON WINCH, WRAP AROUND WEDGE, AND BACK THROUGH POCKET OPENING AS SHOWN IN FIGURE 1.



CAUTION

- IF THE WIRE ROPE IS NOT INSTALLED FOR THE CORRECT DRUM ROTATION, THE WINCH BRAKE VALVE WILL NOT HOLD THE LOAD.



CAUTION

- THERE MUST ALWAYS BE AT LEAST [5] DEAD WRAPS OF WIRE ROPE ON THE WINCH DRUM WHILE UNDER LOAD.

NOTE: SOME WINCHES MAY BE SUPPLIED WITH A HEX NUT IN LIEU OF A WEDGE FOR INSTALLING THE WIRE ROPE.



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TITLE

WIRE ROPE INSTALLTN

DATE

02-21-14K

SECTION

C200

ET6K & LARGER CRANES

SUPERSEDES

12-26-13J

22245

SECTION 300

OPERATION

&

MAINTENANCE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

MAINTENANCE OVERVIEW INFORMATION

MAINTENANCE

The crane requires only periodic lubrication. As a standard procedure, this can be done at the time the vehicle is serviced.

GENERAL

Inspect wire rope for any evidence of kinks or fraying. Ensure that lifting hook of wire rope shows no evidence of damage and is functioning normally.

Inspect headache ball ("load block") for any signs of damage or excessive wear.

Service all grease fitting locations.

Inspect hydraulic hoses and hydraulic fittings for hydraulic leaks.

Inspect electrical connections for any looseness or corrosion.

Inspect bolts and verify all are tight, paying particular attention to winch, rotation system, and mounting base bolts.

Inspect all pins and snap rings for proper fit and function.

Inspect sheaves for excessive wear or play.

Perform a basic inspection of the winch with each use, monitoring for unusual noise or hydraulic leaks.

The winch planetary gearbox lube (SAE 90) should be maintained at the level plug (final base relief valve port) which is approximately half-full point.

To ensure optimal performance, the following oil change schedule should be followed:

Initial Change - after the initial 100 hours of operation or six months.

Periodic Change - after every 300 hours of operation or two years.

Temp Range (°F)	Winch Gear Oil
120° to 10°	High quality SAE 90 gear lubricant oil
Severe Duty	Swepeco #201 multi-purpose gear oil



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

MAINTENANCE INFO

DATE

11-10-22D

SECTION

C300

HT25/30/40/50/60/66KX(P)

SUPERSEDES

02-21-14C

23203

CRANE OPERATION AND MAINTENANCE INSTRUCTIONS ▲

SAFETY

Before operating this crane, read and understand these instructions, the 920612 Crane Safety and Hazards Information Sheet, and review all safety & instruction labels on the crane.

CRANE INSPECTION

Before operating this crane, inspect for wear, damage, or oil leakage. After the wire rope has been run out, check for wear, kinks, and broken strands. Check the hook and safety latch for damage. Correct any problems before using the crane.

See Crane Safety Manual for proper inspection schedules and reports .

CAPACITY

Before operating this crane, review the capacity charts on the sides of the boom to relate the load to be lifted to the boom length and angle. The boom angle is shown by a gravity arrow.

LOAD BLOCK ▲

If the load exceeds the single-line rated load or if reduced winching speed for better control of smaller loads is required, use the load block to rig the crane for two part line operation.

CONTROLS ▲

The control pendant should be stored in a compartment or the cab when the crane is not in use.

Before activating the control pendant, inspect the cord(s) and pendant head/switches for damage. With the pendant OFF and the PTO disengaged, actuate all switches in both directions to verify that they all have the same feel/sound and return to the center position.

PTO SYSTEM ▲

Check the hydraulic fluid level in the PTO system reservoir. Engage PTO and set the engine speed to provide the desired hydraulic flow rate per the PTO system instructions.

CRANE OPERATION

Use "Winch Down" to release tension on the wire rope to unhook it from the storage tie down position.

Use "Boom Up" to elevate the boom from the boom rest position.

Avoid repeated rapid reversals of the control switches. This can cause the load to swing.

Check all control functions to see that they are working as described in the following section.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

CRANE OP / MNTNC INST

DATE

08-08-23A

SECTION

C200

HT CRANES



SUPERSEDES

10-11-18

23753

CONTROL FUNCTIONS

- WINCH "UP" and "DOWN" - Raises and lowers the load with the winch.
- BOOM "UP" and "DOWN" - Raises and lowers the boom elevation angle.
- BOOM "OUT" and "IN" - Extends and retracts the boom.
- ROTATION "L" and "R" - Controls the left and right direction of the crane rotation.
- TRIGGER (Proportional Systems Only) - Varies the flow rate delivered to the crane valve. The further the trigger is pulled, the faster the selected crane function operates.

OVERLOAD SENSING SYSTEM

This crane is equipped with an Overload Sensing System. If the capacity of the crane is exceeded, the "Winch Up", "Boom Down", and "Boom Out" functions will be shut down. The "Winch Down", "Boom Up", and "Boom In" functions will continue to operate and can be used to relieve the overload condition. The "Rotation" function also will continue to operate.

VENTURO LOGIC CONTROL (VLC) SYSTEM

This crane is equipped with Venturo's logic control system. The receiver collects data from the boom tilt sensor and hydraulic pressure transducer, and translates the results to one of the following actions:

% OF LOAD	CRANE RESPONSE	BOOM/RECEIVER INDICATOR LIGHTS	TRANSMITTER LCD	TRANSMITTER VIBRATOR
0 - 79%	NORMAL OPERATION	Green solid	<i>Load xx%</i> <i>Angle xx°</i>	None
80% - 89%	NORMAL OPERATION	Yellow flashing	<i>Load xx%</i> <i>Angle xx°</i>	None
90% - 99%	All crane functions speed reduced to 50%	Red flashing	<i>Load xx%</i> <i>Angle xx°</i> flashing text SPD 50% icon	[3] quick vibrations when 90% threshold is exceeded
>100%	Winch down, boom retract, and rotation @ 75%. All other functions prevented.	Red solid	<i>Overload</i> <i>Limited functions</i> <i>Speed reduced</i> Flashing text/inverted color - or after pressing OK button- Home Screen, flashing text/inverted color, SPD 25% icon	Continuous vibration for [4] seconds when 100% threshold is exceeded

TWO-BLOCK SENSING SYSTEM

This crane is equipped with an anti two-block device that is mounted at the tip of the boom. If the load block / overhaul weight contacts the device the "Winch Up", "Boom Down", and "Boom Out" functions are disabled. The "Winch Down", "Boom Up", and "Boom In" functions will continue to operate and can be used to relieve the two-block condition.



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CINCINNATI, OHIO

TITLE
CRANE OP / MNTNC INST

HT60/66 VLC SERIES

DATE
10-26-23A

SUPERSEDES
11-10-22

SECTION
C300

28435

TRUCK SETUP & STABILIZERS

1. The truck should be parked on firm level ground.
2. The center of the crane should be positioned close enough to the job so that it can be operated at a reach that puts the load within the rated capacity of the crane.
3. Set the vehicle parking brake and put the vehicle transmission in "park" if it is an automatic.
4. Fully deploy stabilizers to help stabilize vehicle against rocking or overturning.
5. Use stabilizers to level vehicle only. Tires must maintain contact with ground.

PREPARATION FOR TRAVEL

1. Return the stabilizers to the stowed position. Install and secure all pins.
2. Stow the crane boom in the boom support.
3. Hook the winch line to a tie down point on the body or pedestal and apply tension.
4. Disengage the PTO pump and idle speed control.
5. Power down the control pendant and store in a body compartment or the cab.



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CINCINNATI, OHIO

TITLE

CRANE OP / MNTNC INST

DATE

10-26-23A

SECTION

C300

HT60/66 VLC SERIES

SUPERSEDES

11-10-22

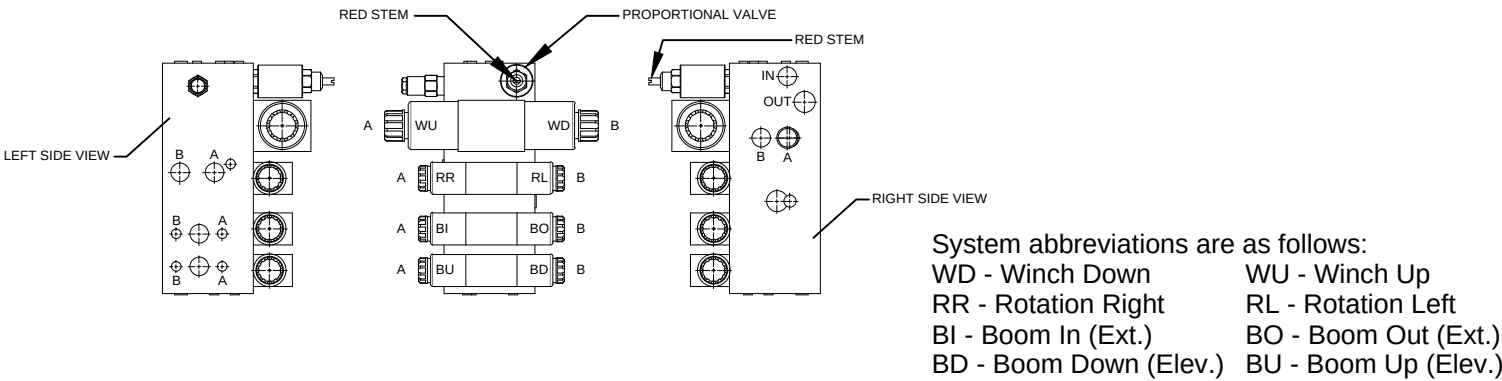
28436

EXPLANATION OF HYDRAULIC VALVE SYSTEM
HT40/50/60/66KX, PROPORTIONAL ONLY

OVERVIEW

This proportional crane utilizes a proportional valve, which controls the rate at which the hydraulic fluid flows through the valve bank. When the proportional valve is fully closed, hydraulic fluid bypasses the valve bank and returns directly to the tank. When the proportional valve is fully open, hydraulic fluid cycles through the valve bank and allows the crane to function at full speed. When the proportional valve is at any setting between, a portion of the fluid is allowed through the valve bank, with the remainder returning to the tank.

The four [4] crane functions (winch, rotation, boom extension, and boom elevation) are controlled by four [4] separate valve sections. Each valve section has two [2] solenoid coils (and two [2] manual overrides) which control the direction that the function operates (e.g. winch up vs. winch down). For a given crane function and direction (e.g. winch up), the solenoid coil and associated manual override reside on the same side of the valve bank.



MANUAL OVERRIDE SYSTEM

Should an electrical failure occur, your Venturo crane can be operated manually. The manual overrides are intended for emergency use only and should not be used for normal operation.

To operate in manual override mode:

- (1) Override the proportional valve by turning the red stem on the valve as stated below
 - For override operation, rotate stem clockwise (the farther the stem is turned the faster the crane will operate)
 - To return to normal operation, rotate the stem counter-clockwise until it stops
- (2) Determine the coil / override associated with the function you wish to operate, then insert a small diameter object (an Allen wrench works well) into the detent on the end of the valve stem and firmly press inward. For example, pushing the stem labeled 'A' on the first bank (refer to illustration) will actuate winch up

**W A R N I N G**

- For normal crane operation, the proportional valve must be in the 'normal' position (as described above). To verify 'normal' operation, you may set the pendant (or radio) control aside and actuate a single crane function by pushing inward on any of the manual override pins, located at the ends of each function control valve. If that function operates, the proportional valve is still in manual override. Check the position of the proportional valve's red stem to insure that it is fully counter-clockwise.

EMERGENCY STOP

In the unlikely event that a function of the crane does not stop once the function's toggle switch is released, the proportional crane can be stopped by releasing the trigger on activating the red E-STOP button on the transmitter.



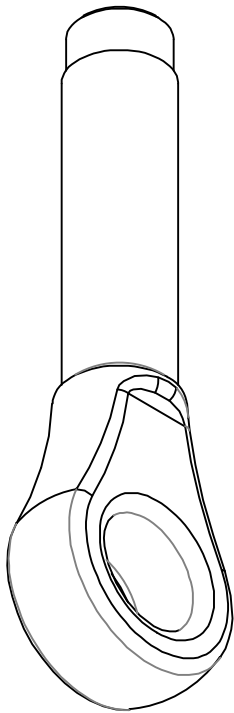
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	DATE	SECTION
HYDRAULIC SYSTEM	11-10-22E	C200
HT40/50/60/66KX; PROP	SUPERSEDES	
	02-21-14D	22168

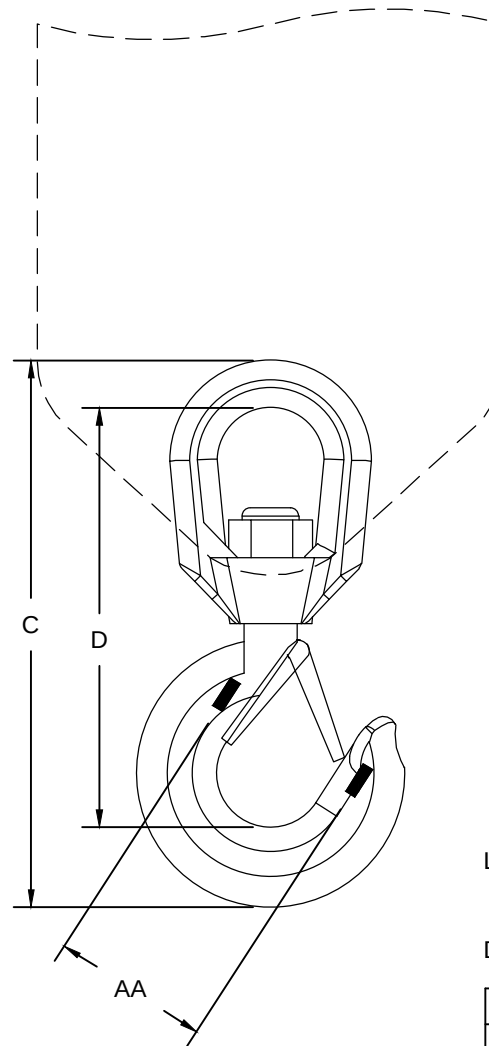
WIRE ROPE ASSEMBLY

WIRE ROPE (24916):

- 3/8" DIA, 100'/125' LONG
- 8 X 26 LRL 2160 GALV, IWRC
- MINIMUM BREAKING STRENGTH: 17,500 LBS
- TERMINATES IN 3/8" CLOSED SWAGE SOCKET



LOAD BLOCK ASSEMBLY



LOAD BLOCK HOOK:

RATING: 5 TONNE (11,023 LBS)

DIMENSIONS:

COLOR	BRAND	AA	C	D
GOLD	CROSBY	2.50"	9.69"	7.50"



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

WIRE ROPE & HOOK SPECIFICATIONS

HT60KX

DATE

03-21-23

SUPERSEDES

-

SECTION

C300

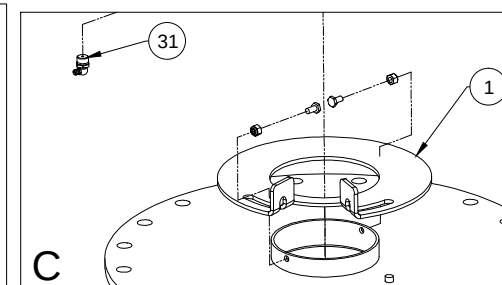
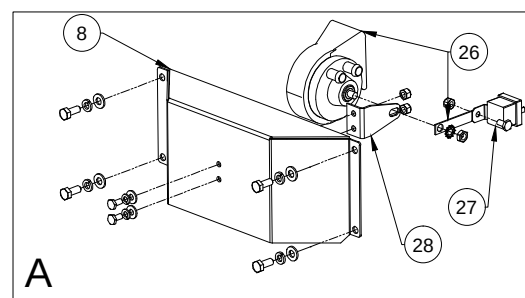
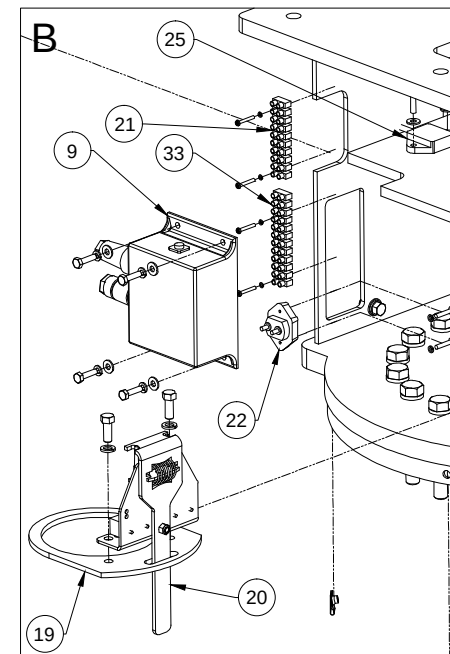
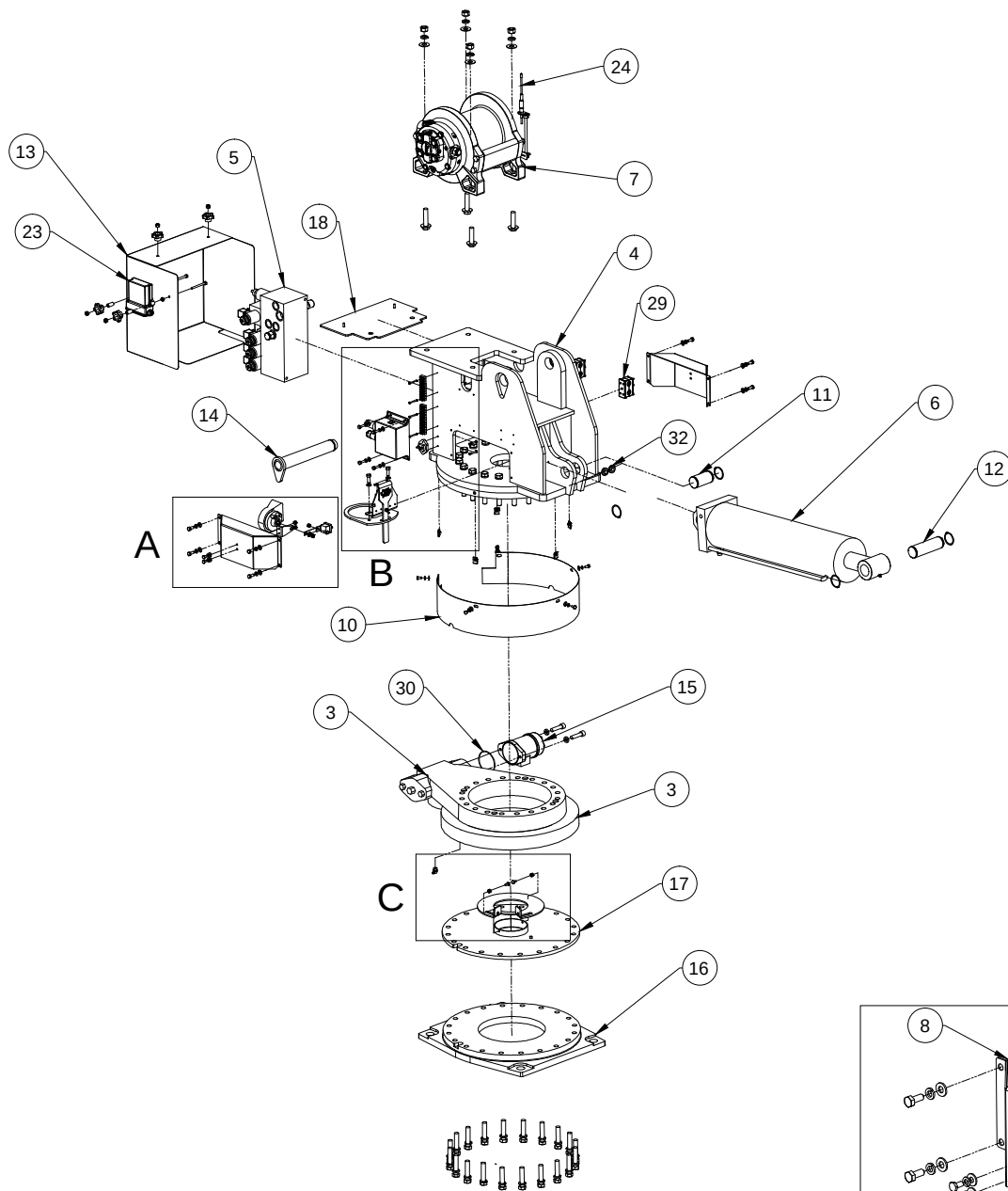
28421

SECTION 400

REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO



REFERENCE #28466 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DRAWING - MECHANISM

HT60KX VLC SERIES

DATE

10-27-23

SUPERSEDES

-

SECTION

C400

28465

REPLACEMENT PARTS LIST - HT60KX VLC SERIES; MECHANISM

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	23666	STOP DISK - ELECTRIC ROTATION STOP
2	-	-	-
3	1	27275	SLEWING RING
4	1	24918	WELDED ASSEMBLY; HOUSING, MECHANISM
5	1	22736H-2	VALVE MANIFOLD; HI FLOW, 3000 PSI
6	1	21748	ELEVATION CYLINDER
7	1	27274	HYDRAULIC WINCH
8	2	27400	HOUSING SIDE COVER
9*	1	23720-RX	RECEIVER; ESCAN, 2.4GHz
10	1	27406	SLEWING RING COVER
11	1	22256	ELEVATION CYLINDER PIN - INBOARD
12	1	22257	ELEVATION CYLINDER PIN - OUTBOARD
13	1	27505	REAR COVER
14	1	22721	PIVOT PIN - MAIN BOOM PIVOT
15	1	27276	HYDRAULIC ROTATION MOTOR
16	1	28470	MACHINED BASE
17	1	28473	SLIPPER PLATE WELD
18	1	28318	REAR COVER MOUNTING PLATE WELDMENT
19	1	23680	HOUSING WATER DAM
20	1	28474	ELECTRIC ROTATION STOP ASSEMBLY

ITEM	QTY.	PART NUMBER	DESCRIPTION
21	1	19187-10	TERMINAL STRIP; 10 SECTIONS
22	1	15683-20A	CIRCUIT BREAKER; 20A
23*	1	23720-VCM	VALVE CONTROL MODULE
24	1	28450	REMOTE ANTENNA
25*	1	23720-INC	UNIVERSAL INCLINOMETER
26	1	21948	HORN
27	1	22739	HIGH CAPACITY RELAY
28	1	22000	BRACKET; HORN
29	2	27307	CLAMP ASS'Y; HOSE / TUBING
30	1	OR-152-5	O-RING; ROTATION MOTOR
31	1	IZERK-013-27 NPT-90	FITTING; GREASE, 90°
32	2	14775	GROMMET - RUBBER
33	1	19187-12	TERMINAL STRIP; 10 SECTIONS
34	-		
35	-		
36	-		
37	-		
38	-		
39	-		
40	-		

* THESE ITEMS ARE INCLUDED IN 23720 KIT. PLEASE CALL TECHNICAL SUPPORT AT 1-800-226-2238 FOR ASSISTANCE.

REFERENCE #28465 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST - MECHANISM

HT60KX VLC SERIES

DATE

10-27-23

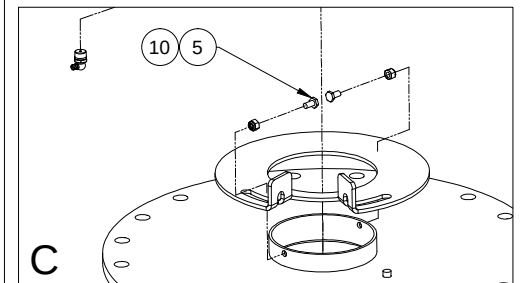
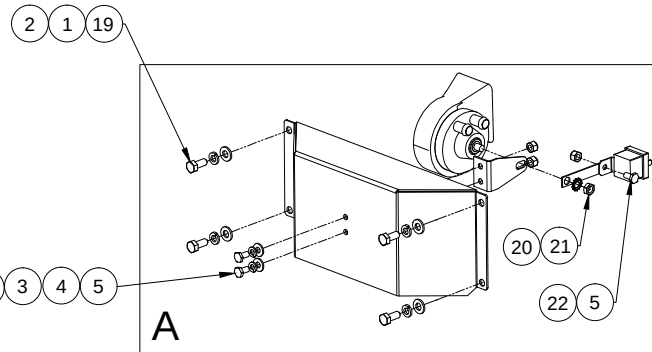
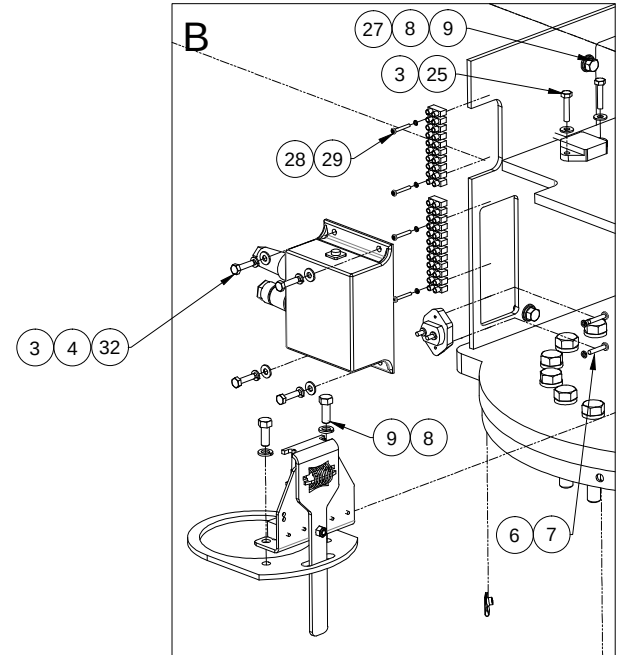
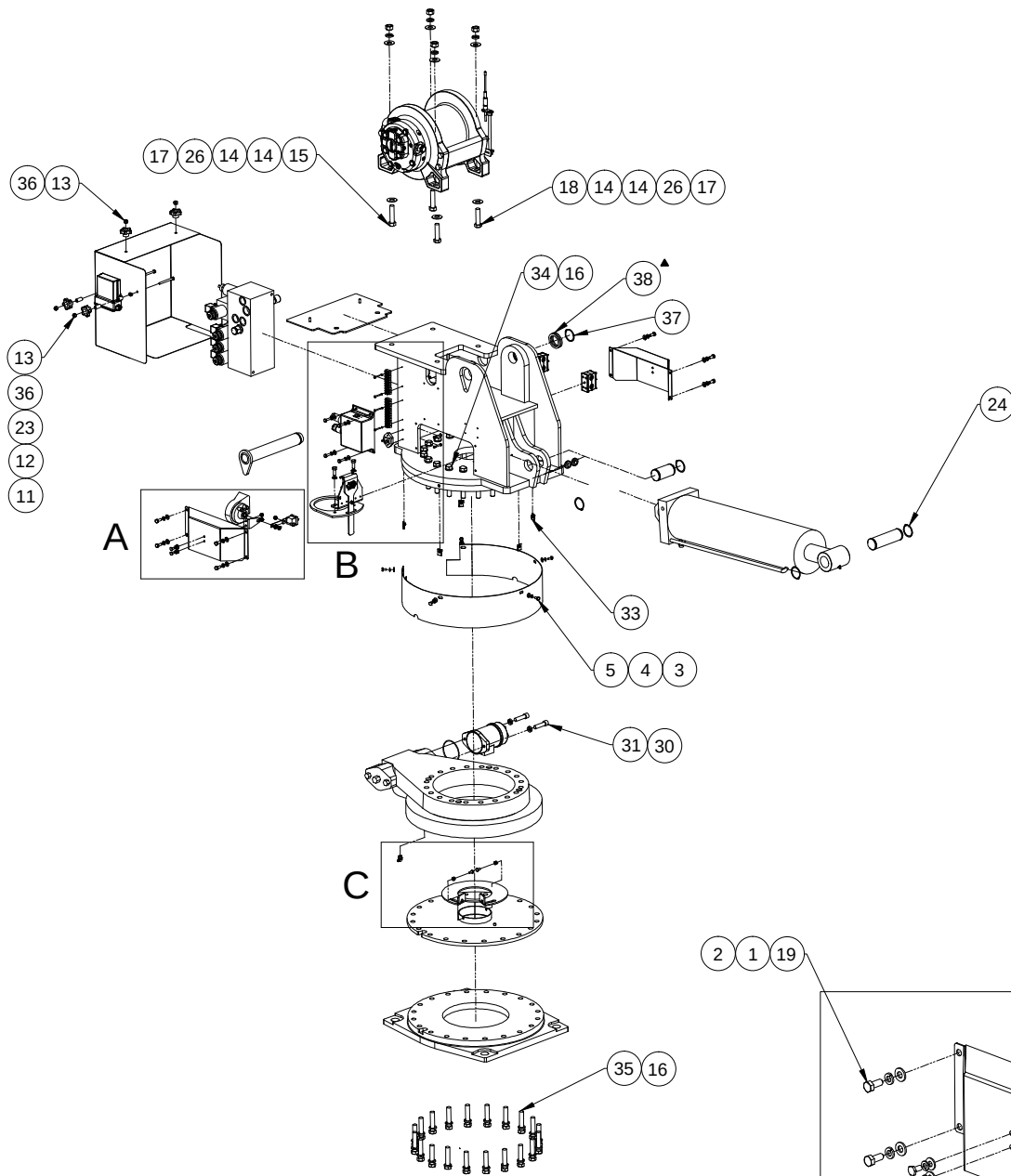
SUPERSEDES

-

SECTION

C400

28466



REFERENCE #28468 FOR REPLACEMENT FASTENERS LIST



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE	REPLACEMENT FASTENERS DRWNG - MECH
HT60KX VLC SERIES	

DATE	03-29-24A	SECTION	C400
SUPERSEDES	10-27-23		28467

REPLACEMENT PARTS LIST - HT60KX VLC SERIES; MECHANISM

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	8	!LWSH-031S	LOCK WASHER; 5/16", S/S
2	8	!FWSH-031S	FLAT WASHER; 5/16", S/S
3	13	!FWSH-025S	FLAT WASHER; 1/4", S/S
4	11	!LWSH-025S	LOCK WASHER; 1/4", S/S
5	10	!HHCS02520050S	HHCS; 1/4-20 x 1/2" LG, S/S
6	2	!LWSH-#10S	LOCK WASHER; #10, S/S
7	2	!SHCS#0832100S	SHCS; #10-32 X 1", S/S
8	4	!LWSH-038	LOCK WASHER; 3/8", ZINC-PLTD
9	4	!HHCS03816100	HHCS; 3/8-16 X 1", ZINC-PLTD
10	2	!LNUT-02520	LOCK NUT; 1/4-20, NYLON, ZINC
11	2	!HHCS02520275	HHCS, 1/4-20 X2.75", S/S, FULL THREAD
12	2	!JNUT-02520NS	JNUT, NYLON INSERT, 1/4-20, S/S
13	4	!LNUT-02520-H	LOCK NUT; 1/4-20, HVY PAT, NYLON
14	8	!FWSH-063	FLAT WASHER; 5/8", GR. 8
15	2	!HHCS06311275	HHCS; 5/8-11 X 2-3/4" LG, GR 8
16	40	!LWSH-063	LOCK WASHER; 5/8", GR. 5, ZINC
17	4	!HNUT-06311-8	HEX NUT; 5/8-11, GR. 8
18	2	!HHCS06311250-8	HHCS; 5/8-11 X 2-1/2" LG, GR 8
19	8	!HHCS03118075S	HHCS; 5/16-18 X 3/4", S/S
20	1	!LWSH-031-STAR	LOCK WASHER; 5/16", ZINC

ITEM	QTY.	PART NUMBER	DESCRIPTION
21	1	!HNUT-03118	HEX NUT; 5/16-18, ZINC
22	5	!LNUT-02520SS	NYLOCK HEX NUT 1/4-20
23	2	28328	NYLON SPACER, BLK - .25"IDX.50"ODX1"LG
24	4	!SRNG-150	SNAP RING; 1-1/2", ZINC-PLTD
25	2	!HHCS02520125S	HHCS; 1/4-20 X 1-1/4", S/S
26	4	!LWSH-063	LOCK WASHER; 5/8", GR. 8, ZINC
27	2	!FWSH-038	FLAT WASHER; 3/8", ZINC-PLTD
28	4	!LWSH-#06S	LOCK WASHER; #06, S/S
29	4	!PHPMS#0632100S	PHILIPS-HD PMS; #6-32 X 1", S/S
30	2	!LWSH-050-HC	LOCK WASHER; 1/2", HI-COLLAR
31	2	!SHCS05013200	SOCKET HEAD CAP SCREW - 1/2-13 X 2 LG
32	4	!HHCS02520100S	HHCS; 1/4-20 X 1-1/4", S/S
33	5	!UNUT-02520-LKG	U-NUT 1/4-20, LOCKING TYPE
34	20	!HHCS06311450	HHCS; 5/8-11 x 4" LG, GR. 5, ZINC
35	20	!HHCS06311300	HHCS; 5/8-11 x 3" LG, GR. 5, ZINC
36	4	28327	KNOB, HAND, 5-POINT
37	1	!SRNG-175	SNAP RING; 1-3/4", ZINC-PLTD
38	2	26609	SHIM - STAINLESS STEEL
39	-		
40	-		

HHCS = HEX HEAD CAP SCREW, SHCS = SOCKET HEAD CAP SCREW, PMS = PAN MACHINE SCREW, S/S = STAINLESS STEEL

REFERENCE #28467 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPL FASTENERS LIST - MECHANISM

HT60KX VLC SERIES

DATE

03-29-24A

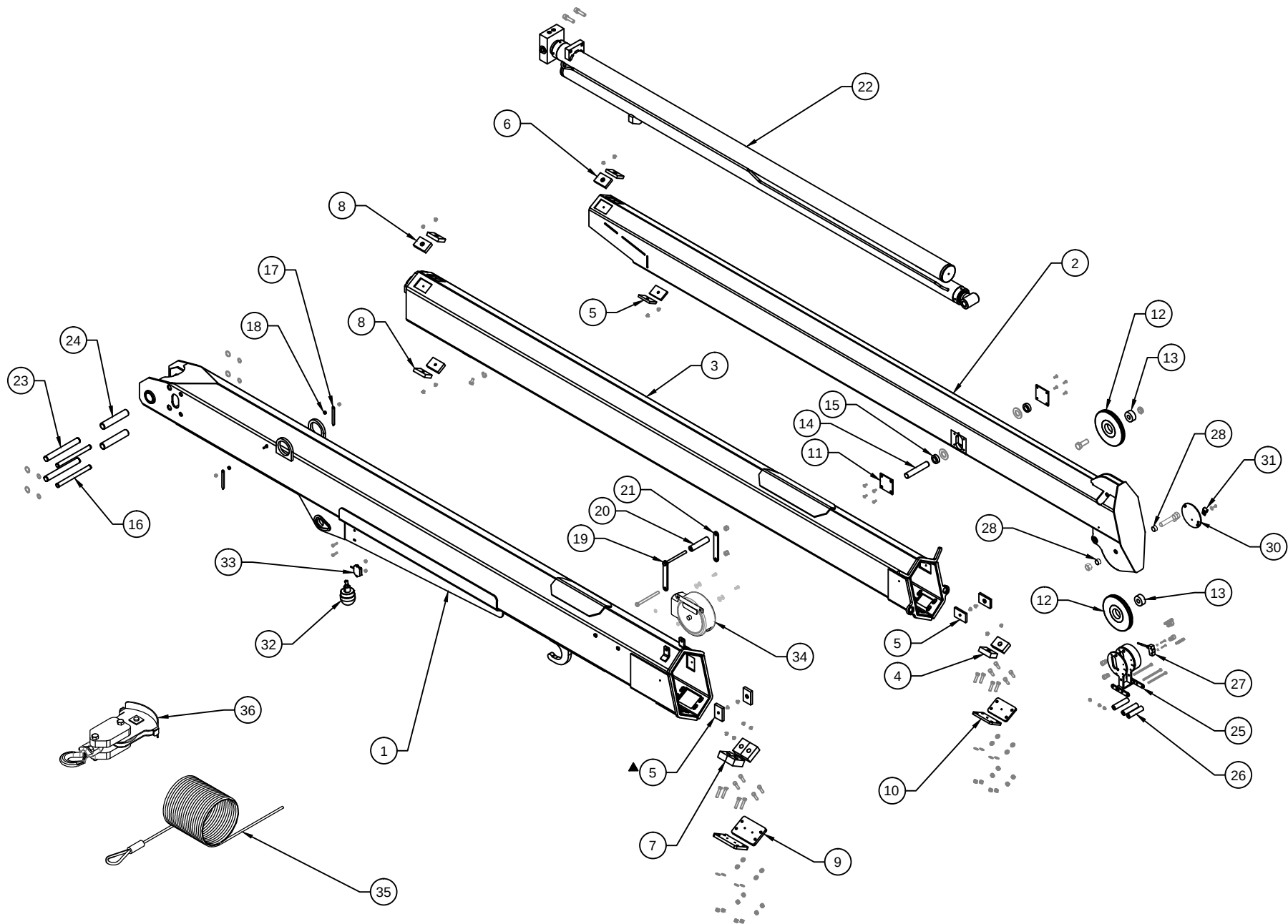
SUPERSEDES

10-27-23

SECTION

C400

28468



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPL PARTS DWG, 30' BOOM, 23880
HT45/55/60KX-30' VLC SERIES

DATE
04-05-24E
SUPERSEDES
11-10-22D

SECTION
C400
24164

REPLACEMENT PART LIST, 30' BOOM 23880

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	23881	1	PRIMARY BOOM WELDMENT
2	23882	1	SECONDARY BOOM WELDMENT
3	23883	1	TERTIARY BOOM WELDMENT
4	23631-7	2	BOOM PAD; 0.88" THICK
▲ 5	23631-3	6	BOOM PAD; 0.38" THICK
▲ 6	23631-4	2	BOOM PAD; 0.50" THICK
7	23631-10	4	BOOM PAD; 1.25" THICK
8	23631-5	4	BOOM PAD; 0.63" THICK
9	23677	2	COVER PLATE; PRIM. ADJ. PAD
10	23678	2	COVER PLATE; SEC. ADJ. PAD
11	23116	2	PIN BLOCK; REINFORCING
12	23928	2	BOOM SHEAVE W/ BUSHING
13	23929	2	SPACER; 23927 & 23928 POLY SHEAVES
14	23906	1	PIN; PIVOT, ROD END, EXT. CYLINDER
15	21428	2	BUSHING
16	23904	2	EXTENSION CYLINDER 0.75" THRUST PIN
17	13459	2	ARROW
18	22490	2	SPACER; BOOM ARROW
19	21935	1	WIRE ROPE GUIDE; WELDMENT
20	21560	1	WIRE ROPE GUIDE; UMHW ROLLER
21	21936	1	WIRE ROPE GUIDE; FLAT, MOUNT
22	23875	1	EXTENSION CYLINDER
23	23905	2	EXTENSION CYLINDER 1" THRUST PIN
24	27283	2	THRUST ROLLER
25	27468	1	COMPACT A2B; HOUSING, WELDMENT
26	27475	3	COMPACT A2B; ROLLER
27	19376	1	ANTI TWO BLOCK SWITCH
28	27476-1	2	SPACER/PIVOT; COMPACT A2B
29	-	-	-
30	27473	1	COMPACT A2B; COVER PLATE
31	19269	1	CABLE CLAMP; 1/4"
32	23438	1	TRI-COLOR WARNING LIGHT
33	23720	1	INCLINOMETER
34	28190	1	COMPLETE CORD REEL
35	17094-3/8-125	1	WIRE ROPE; 125 FT, NO HOOK (HT45/55)
	24916-3/8-125	1	WIRE ROPE; 125 FT, HIGH STR (HT60)
36*	17949-2	-	LOAD BLOCK ASSEMBLY (HT45)
	17949-3	-	LOAD BLOCK ASSEMBLY (HT55)
	17949-5	-	LOAD BLOCK ASSEMBLY (HT60)



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPL PART LIST, BOOM 23880

DATE

04-05-24G

SECTION

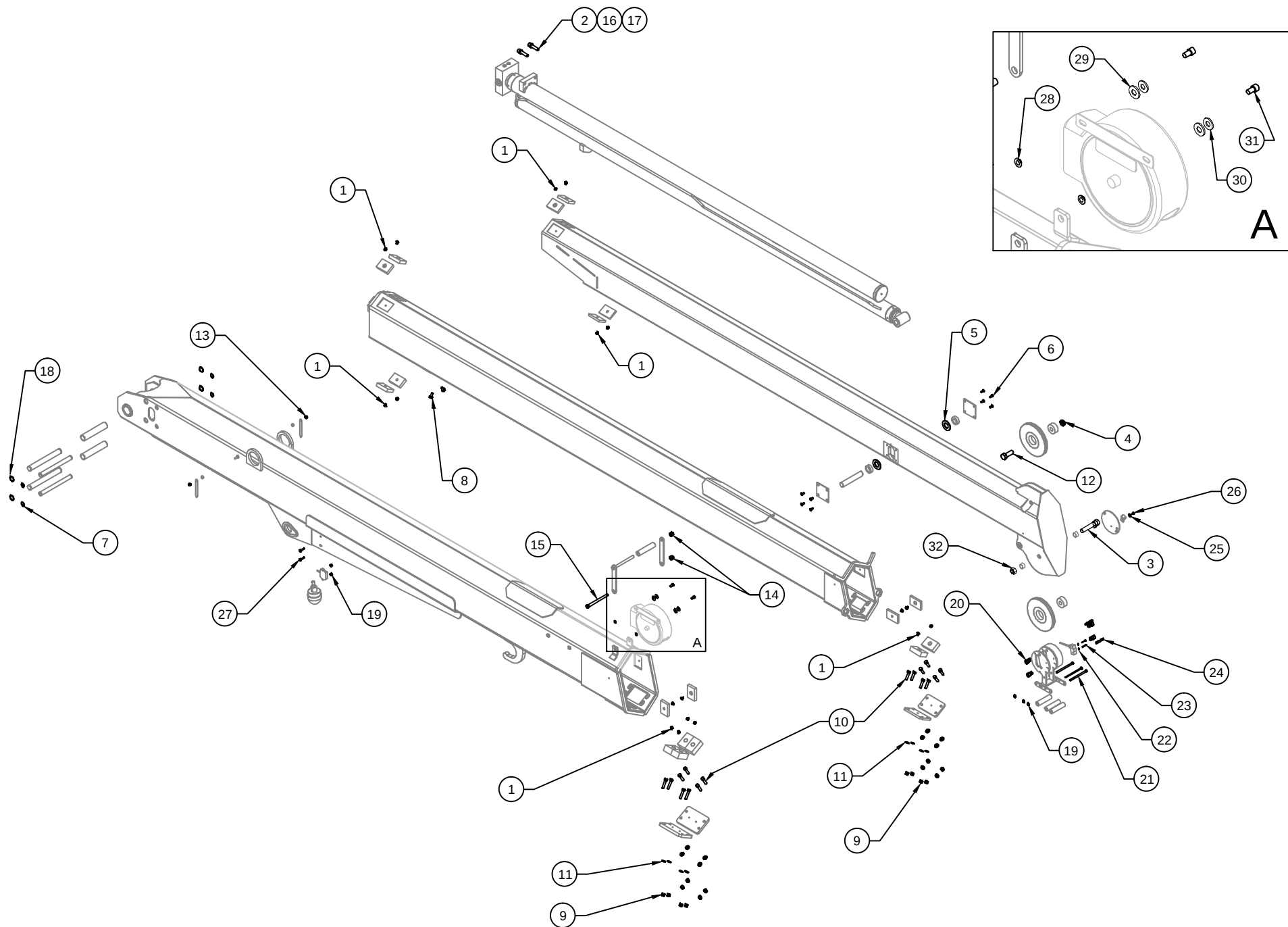
C400

SUPERSEDES

09-07-23F

HT45/55/60KX-30' VLC SERIES

24165



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPL HARDWARE DWG, 30' BOOM 23880
HT45/55/60KX-30' VLC SERIES

DATE
11-10-22C
SUPERSEDES
04-29-22B

SECTION
C400
24166

RPLCMNT H/W LIST, 30' BOOM 23880

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	!THCS02520038	18	THCS; 1/4-20 x 3/8" LG, S/S
2	14159	1	SHIM KIT
3	28362	1	ASSY, WELDED, CAM & HHCS CA2B CUT-OUT
4	!LNUT-07510	1	LOCK NUT; 3/4-10, NYLON, ZINC
5	!FWSH-100SAE	2	FLAT WASHER; 1" SAE
6	!CACS02520050S	8	CACS; 1/4-20 x 1/2" LG, S/S
7	!SRNG-075	4	SNAP RING; 3/4"
8	!HHCS03816075	2	HHCS; 3/8-16 X 3/4", GR.5
9	!LNUT-03816	16	LOCK NUT; 3/8-16, GR. 5, ZINC
10	!HHCS03816175	16	HHCS; 3/8-16 x 1-3/4" LG, GR. 5, ZINC
11	!FWSH-038	16	FLAT WASHER; 3/8", ZINC
12	!HHCS07510350	1	HHCS; 3/4-10 x 3-1/2" LG, GR. 5, ZINC
13	!ANUT-02520S	2	ACORN NUT; 1/4-20, S/S
14	!LNUT-04414	2	LOCK NUT; 7/16-14, NYLON INSERT
15	!HHCS04414550	1	HHCS; 7/16-14 x 5-1/2", GR. 5, ZINC
16	!SHCS05013200	2	SHCS; 1/2-13 x 2"
17	!LWSH-050-HC	2	LOCK WASHER; 1/2, GR. 5, ZINC, HI-COLLAR
18	!SRNG-100	3	SNAP RING; 1"
19	!LNUT-02520NS	2	LOCK NUT; 1/4-20, NYLON, S/S
20	27467	4	SHCS; 1/2-13 x 3/4" LG, BLK NYLON
21	HHCS02520450	3	HHCS; 1/4-20 x 4-1/2" LG, GR. 5, ZINC
22	!LWSH-#06S	2	LOCK WASHER; #06, S/S
23	!PHPMS#0632100S	2	PHILIPS-HD PMS; 6-32 x 1", S/S
24	!SHCS02520175S	2	SHCS; 1/4-20 x 1-3/4", S/S
25	!FWSH-025S	1	FLAT WASHER; 1/4", S/S
26	!SHPMS#1032038S	1	SLOT-HD PMS; 10-32 x 3/8", S/S
27	!HHCS02520100S	2	HHCS; 1/4-20 x 1", S/S
28	28198	2	INSULATING SLEEVE WASHER - 5/16"
29	01016	2	FIBER WASHER
30	!FWSH-031	2	FLAT WASHER; 5/16"
31	!SHCS03118063S	2	SHCS; 5/16-18 X 5/8" LG, S/S
32	!JNUT-07510N	1	JAM NUT; 3/4-10, GR. 5



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

REPL HW LIST, BOOM 23880

DATE

11-10-22C

SECTION

C400

HT45/55/60KX-30' VLC SERIES

SUPERSEDES

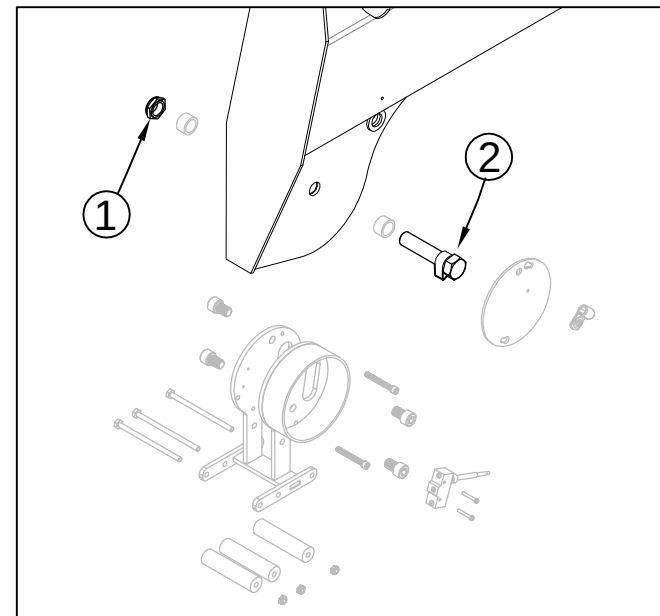
04-29-22B

24167

Compact A2B with Stowage Cut-out, Install/Adjustment Instructions (Kit: 28375)

The purpose of the Stowage Cut-out system is to prevent a situation whereby the wire rope is over-tensioned when the load block / wire rope is attached to the stowage hook on the bottom of the primary boom assembly. **However, the OPERATOR is ultimately responsible for ensuring that the wire rope is not over-tensioned when stowing the wire rope and boom assembly into the boom rest.**

1. Initially, apply a light torque to the nyloc full nut Item #1 (P/N !LNUT-07510), such that the axle bolt & cam welded assembly can be rotated / adjusted in the steps below.
2. Position the cam **lobe** Item #2 (P/N 28362) so that it is pointing towards the housing / mechanism
3. Hang the load block on the open stowage hook under the primary boom.
4. Thread the wire rope through the load block in a two-line configuration; the wire rope end / eyelet is pinned in the standard position on the tertiary boom tip
5. Actuate the Winch Up function until the load block and wire rope are **taut** enough to prevent the load block from bouncing during transit, **but do not tighten excessively so as to prevent damage to the wire rope.**
6. Rotate the axle bolt & cam welded assembly towards the housing (clockwise in standard configuration) until the cam lobe makes contact with and trips the wobble micro switch and actuates the A2B function.
7. Once adjusted, torque the nyloc full nut (Item #1) to 100 ft*lbs to prevent further rotational movement of the axle bolt & cam welded assembly.
8. Test the A2B trip-point by slackening and tightening the wire rope / load block assembly by actuating Winch Up/Down. **NOTE: The point at which the A2B trips WILL vary to some degree, depending upon the winch up speed. It is recommended to actuate the winch up function slowly, which will yield a consistent and repeatable result, in terms of wire rope tension when stowed.**



Contact Ventura Tech Support for assistance. 1-800-226-2238 ext. 124



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

A2B Stowage Cut-out

ET/HT Cranes w/ Comp. A2B

DATE

10-04-21B

SUPERSEDES

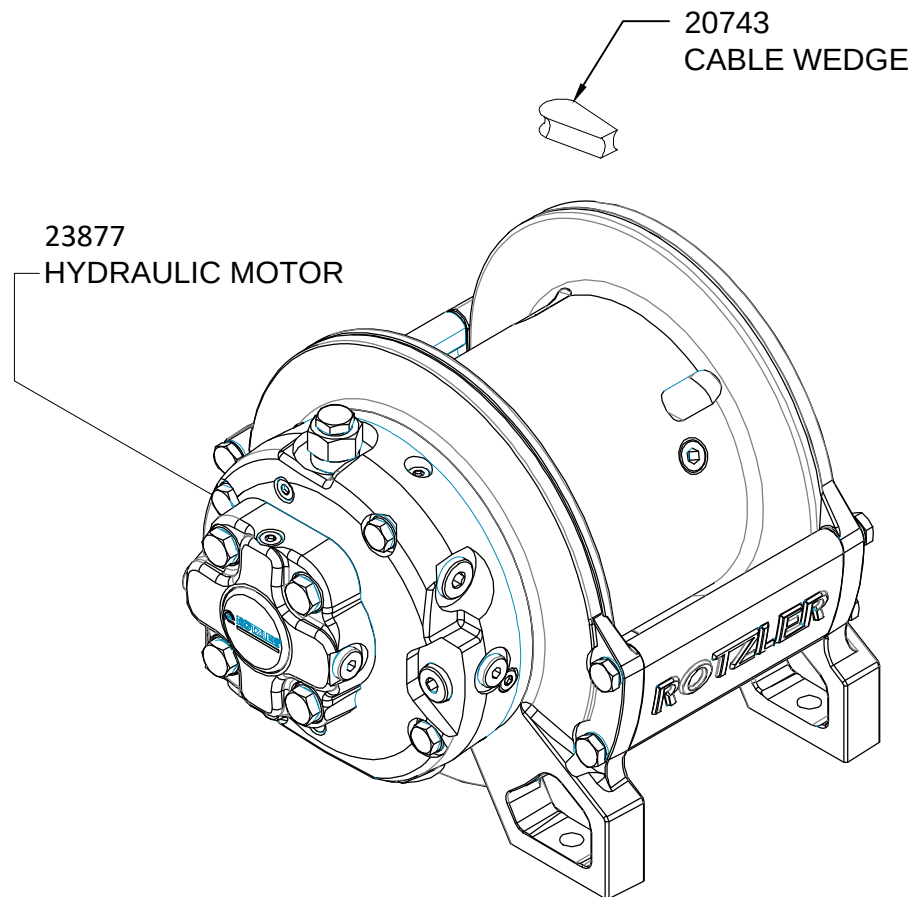
08-03-21A

SECTION

C400

28239

REPLACEMENT PARTS DRAWING; 27274 WINCH



WINCH SEALS PACKAGE: 23848



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS DRAWING

HT60/66KX SERIES CRANES

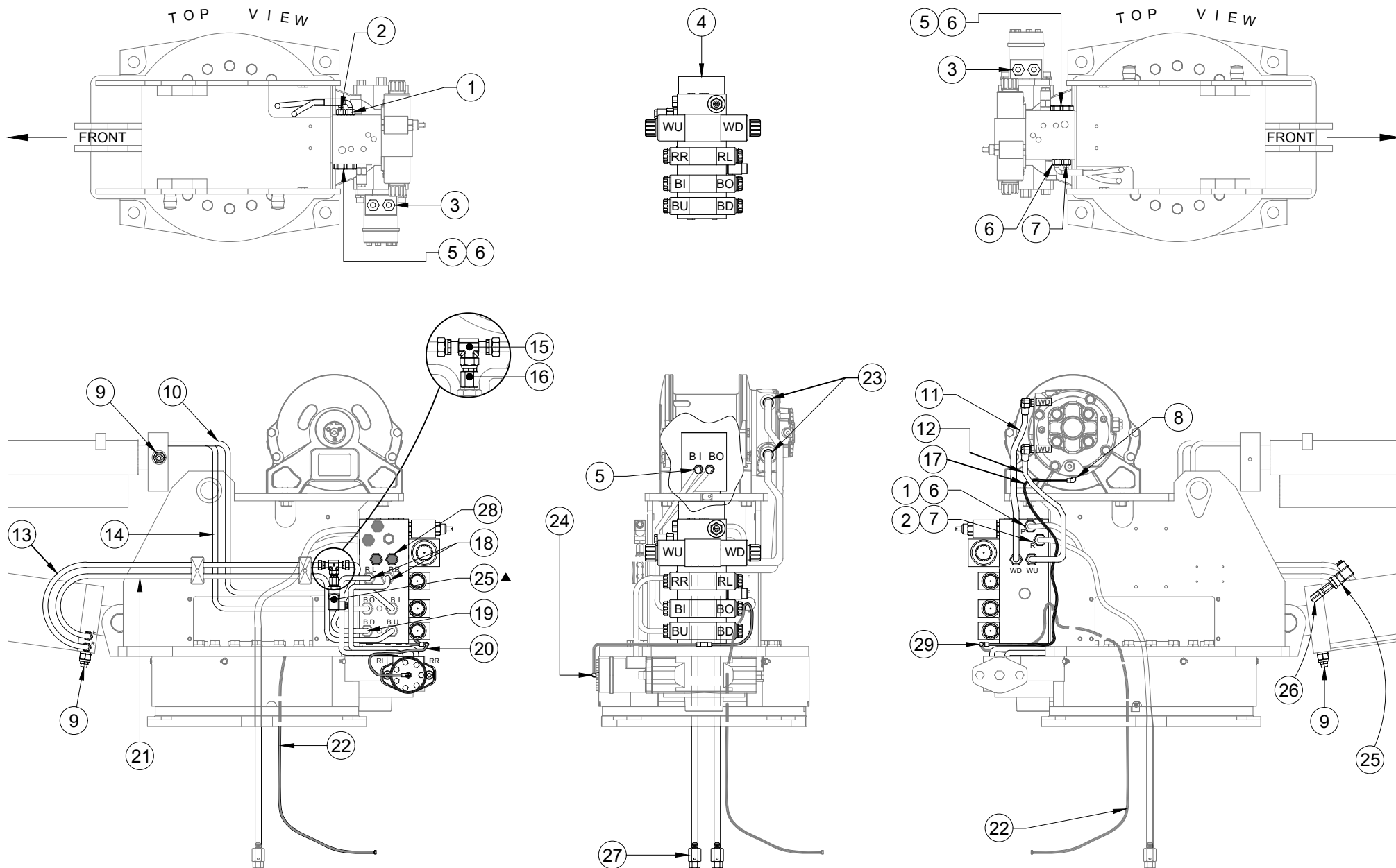
DATE
11-10-22-C

SUPERSEDES
04-05-21B

SECTION
C400

27332

REPLACEMENT PARTS DRAWING - HYDRAULIC COMPONENTS



REFERENCE #28480 FOR REPLACEMENT PARTS LIST

HOSE ROUTINGS ARE FOR REFERENCE ONLY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
RPLCMNT PARTS DWG - HYD. COMPONENTS

HT60/66KX VLC SERIES

DATE
11-17-23A

SUPERSEDES
04-07-23

SECTION
C400

28479

REPLACEMENT PARTS LIST - HYD. COMPONENTS

ITEM	PART NO.	QTY HT60	DESCRIPTION	INSTALLATION
1	28477	1	HOSE ASS'Y; PRESSURE	FF6400-0810 (MANIFOLD) TO COMPARTMENT
2	28267	1	HOSE ASS'Y; RETURN	FF6400-0812 (MANIFOLD) TO COMPARTMENT
3	FF6400-0610	2	FITTING; STRAIGHT ADAPTER, 6OFS-10MO	ROTATION MOTOR PORTS
4	22736H-2	1	VALVE MANIFOLD; HI-FLOW, 3000 PSI	-
5	FF6400-0606	10	FITTING; STRAIGHT ADAPTER, 6OFS-6MO	RL/RR/BI/BO/BU/BD MANIFOLD PORTS, CYL. PORTS
6	FF6400-0810	3	FITTING; STRAIGHT ADAPTER, 8OFS-10MO	MANIFOLD PORTS: 'P' (RIGHT), WU/WD (LEFT)
7	FF6400-0812	1	FITTING; STRAIGHT ADAPTER, 8OFS-12MO	MANIFOLD RETURN PORT (RIGHT)
8	3802-0404 (FF3802-4-4)	1	FITTING; ADAPTER, 45° ELBOW, 04MJ-04MBP (MALE BRITISH PARALLEL)	WINCH CASE DRAIN PORT
9	20893	2	COUNTER-BALANCE VALVE	ELEVATION & EXTENSION CYLINDERS
10	27593	1	HOSE ASS'Y; BOOM IN	FF6400-0606 (MANIFOLD) - FF6400-0606 (EXT. CYL.)
11	27025	1	HOSE ASS'Y; WINCH DOWN	FF6400-0810 (MANIFOLD) - FF3801-8-12 (WINCH)
12	27024	1	HOSE ASS'Y; WINCH UP	FF6400-0810 (MANIFOLD) - FF3801-8-12 (WINCH)
13	28052	1	HOSE ASS'Y; BOOM DOWN, CYL-SIDE	23731 - FF6400-0606 (ELEV. CYL. 'R' PORT)
14	27592	1	HOSE ASS'Y; BOOM OUT	FF6400-0606 (MANIFOLD) - FF6400-0606 (EXT. CYL.)
15	FF6602-06-06-06	1	FITTING; TEE, 6MORFS-6FORFS-6MORFS	PRESSURE TRANSDUCER (ROD SIDE)
16	23732	1	FITTING; REDUCER, 6FORFS-4FORB	PRESSURE TRANSDUCER (ROD SIDE)
17	22953	1	HOSE ASS'Y; CASE DRAIN, 30" LONG	H6801-0404 (WINCH) - H2603-040404 (TEE)
18	27598	2	HOSE ASS'Y; ROTATION LEFT/RIGHT	FF6400-0606 (MANIFOLD) - FF6400-0610 (ROT. MTR.)
19	28053	1	HOSE ASS'Y; BOOM DOWN, MANIFOLD-SIDE	23731 - FF6400-0606 (MANIFOLD)
20	22952	1	HOSE ASS'Y; CASE DRAIN, 13" LONG	H6801-0404 (ROTATION MTR) - H2603-040404 (TEE)
21	28033	1	HOSE ASS'Y; BOOM UP	FF6400-0606 (X2); MANIFOLD - ELEV. CYL. 'E' PORT
22	22903	1	HOSE ASS'Y; CASE DRAIN, 96" LONG	H2603-040404 - COMPARTMENT
23	FF3801-8-12	2	FITTING; 90° ELBOW ADAPTER, 8OFS-12MBP (MALE BRITISH PARALLEL)	WINCH PORTS - 28271, 28272
24	H6801-0404	1	FITTING; 90° ELBOW ADAPTER, 4MJ-4MO	ROTATION MOTOR CASE DRAIN PORT
* 25	23720-PTD	2	PRESSURE TRANSDUCER	23733 (ELEV. CYLINDER PORT, RIGHT SIDE)
26	H6815-0404	1	FITTING; 90° ELBOW, 4MORB-4FORB	TRANSDUCER - ELEV. CYLINDER PORT (RIGHT SIDE)
27	22764	2	HYDRAULIC SWIVELS; 8MJ-8FJ	COMPARTMENT - 22765 (PRESS), 22764 (RETURN)
28	H6408-10	2	FITTING; PLUG, 10MO	MANIFOLD (WU/WD PORTS)
29	H2603-040404	1	FITTING; T-SHAPE, 4MJ-4MJ-4MJ	22952, 22953, & 22903 (CASE DRAIN HOSES)

* THESE ITEMS ARE INCLUDED IN 23720 KIT. PLEASE CALL TECHNICAL SUPPORT AT 1-800-226-2238 FOR ASSISTANCE.

REFERENCE #28479 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
REPL PARTS - HYD COMP

HT60KX VLC SERIES

DATE
10-27-23

SUPERSEDES
-

SECTION
C400

28469

22736 SERIES VALVE MANIFOLD REPLACEMENT PARTS

22963
CHECK VALVE
(NOT SHOWN -
LOCATED ON BACK SIDE)

22595
MAIN RELIEF VALVE

22967 (HT40/50, 22736H)
22595 (HT66, 22736H-1)
22595-2600 (HT60, 22736H-2)
WINCH RELIEF VALVE

22312-2.25
PRIORITY FLOW VALVE
(BOOM EXTENSION)

22312-4.00
PRIORITY FLOW VALVE
(BOOM ELEVATION)

PRIORITY FLOW VALVE		
VALVE P/N	MANIFOLD	CRANE
22312-6.00	22736H	HT40/50KX
22312-7.50	22736H-1	HT66KX
22312-7.50	22736H-2	HT60KX
NOT SHOWN - LOCATED ON RIGHT SIDE		

PROPORTIONAL VALVE		
VALVE P/N & DESCRIPTION	MANIFOLD	CRANE MODEL
23046 HYDRAFORCE (ROUND COIL)	22736H	HT40KX
		HT50KX
	22736H-1	HT/66KX
	22736H-2	HT60KX

22873
VALVE SECTION ASSY

22523
VALVE SECTION ASSY



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
22736 REPLACEMENT PARTS

HT40/50/60/66KX PROPORTIONAL

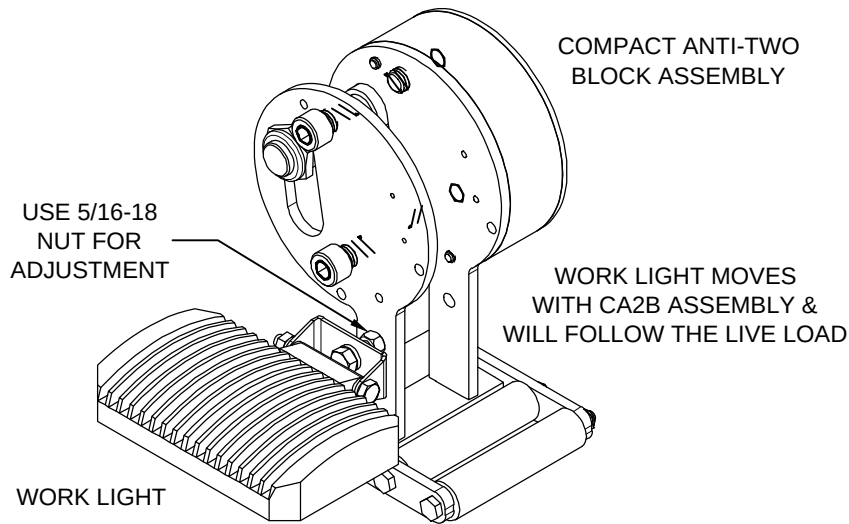
DATE
11-10-22G

SUPERSEDES
11-13-17F

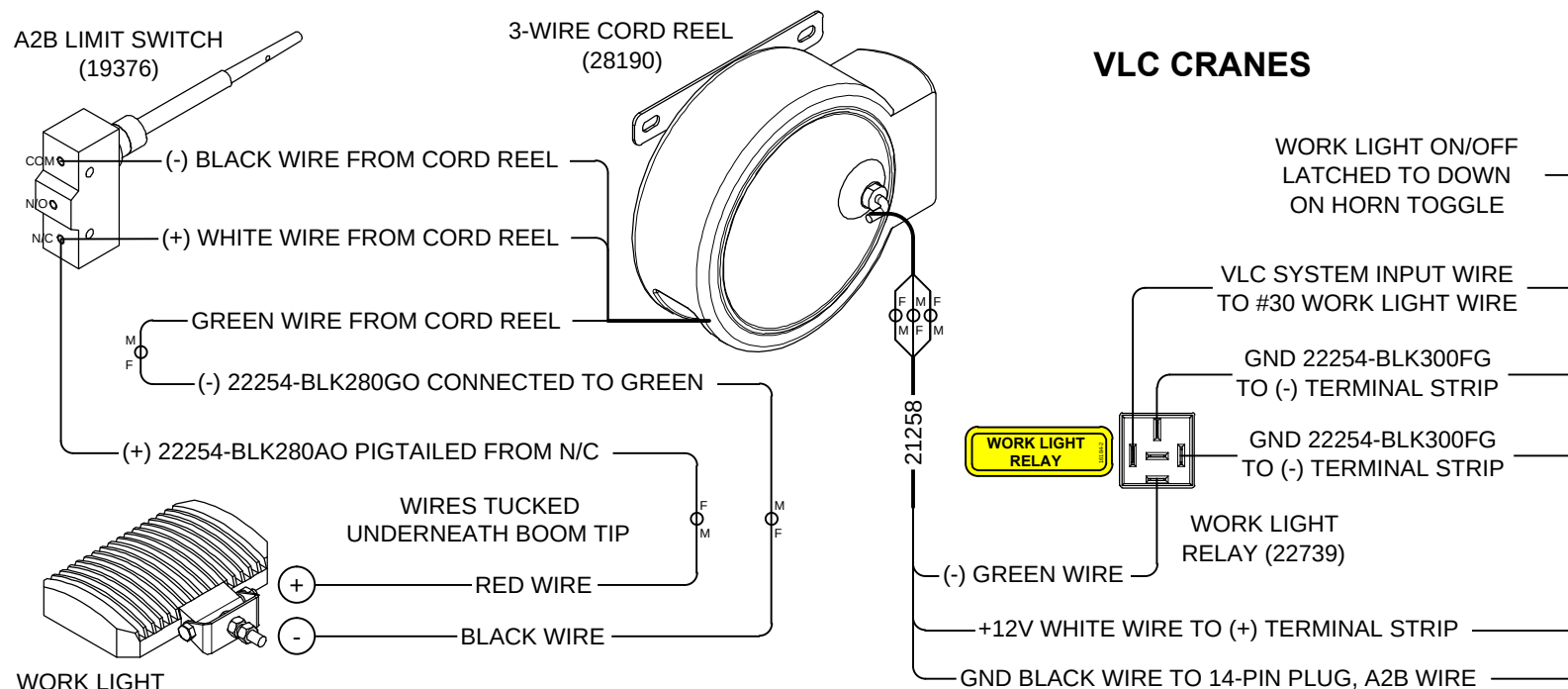
SECTION
C400

22940

WORK LIGHT INSTALLATION: 28240 (3-WIRE CORD REEL ON VLC CRANES)



BILL OF MATERIALS		N/D	28240
#	DESCRIPTION	QTY	PART NUMBER
1	IDWG; WORK LIGHT INSTALLATION, VLC CRANES	1	28188
2	LED WORK LIGHT	1	27483
3	TERMINAL; 16G, FEMALE, QUICK-CONNECT	5	!TERM16G250QCFI
4	TERMINAL; 16G, MALE, QUICK-CONNECT	4	!TERM16G250QCM
5	WIRE ASS'Y; 16G, BLACK, 28", #6 RING - STRIPPED END	1	22254-BLK280AO
6	WIRE ASS'Y; 16G, BLACK, 28", QCF - STRIPPED END	1	22254-BLK280GO
7	RELAY; 12VDC	1	22739
8	DECAL; WORK LIGHT RELAY	1	16184-2
9	WIRE ASS'Y; 16G, BLACK, 30", MALE PIN - QCF	2	22254-BLK300FG



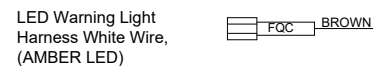
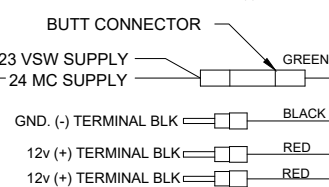
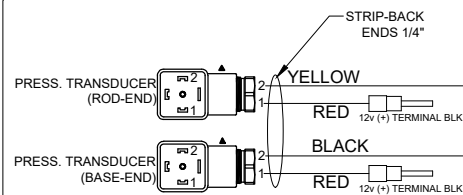
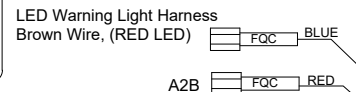
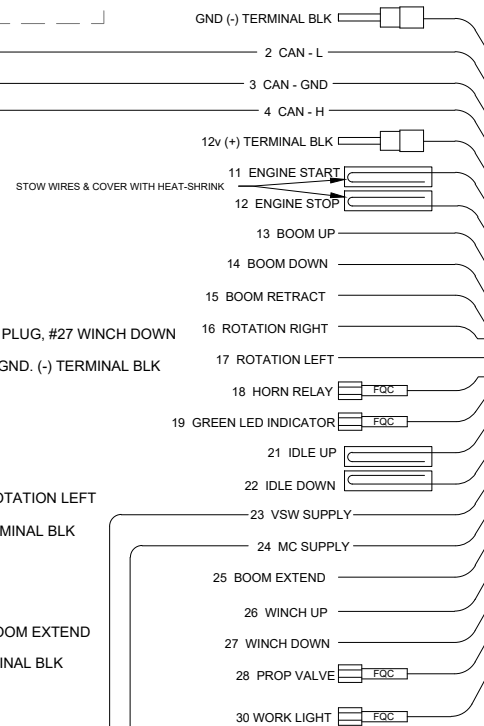
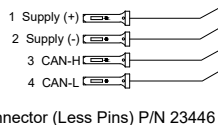
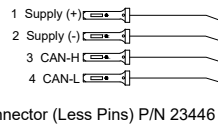
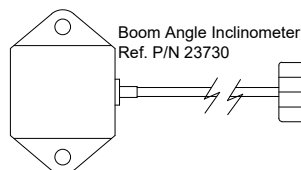
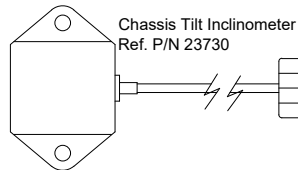
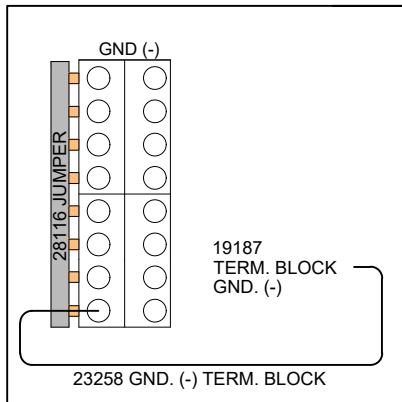
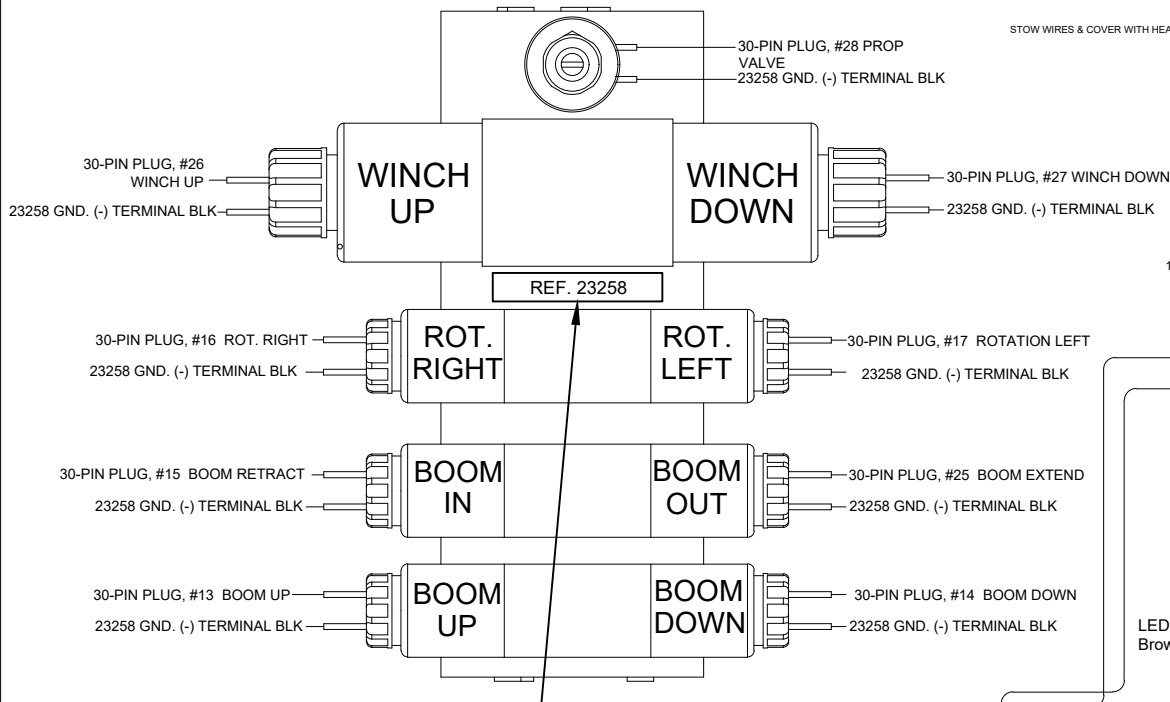
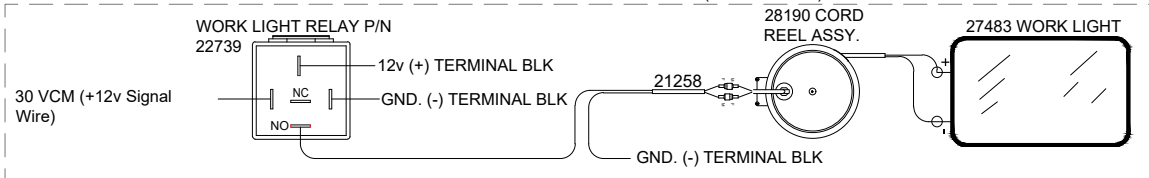
VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
WORK LIGHT INSTALLATION, 3-WIRE CORD REEL
VLC CRANES

DATE
03-03-23A
SUPERSEDES
02-05-21

SECTION
C400
28188

OPTIONAL WORK LIGHT CIRCUIT (KIT P/N 27484)



23821 SHOWS RIGHT SIDE OF WIRING DIAGRAM



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
WIRING DIAGRAM, PG. 1

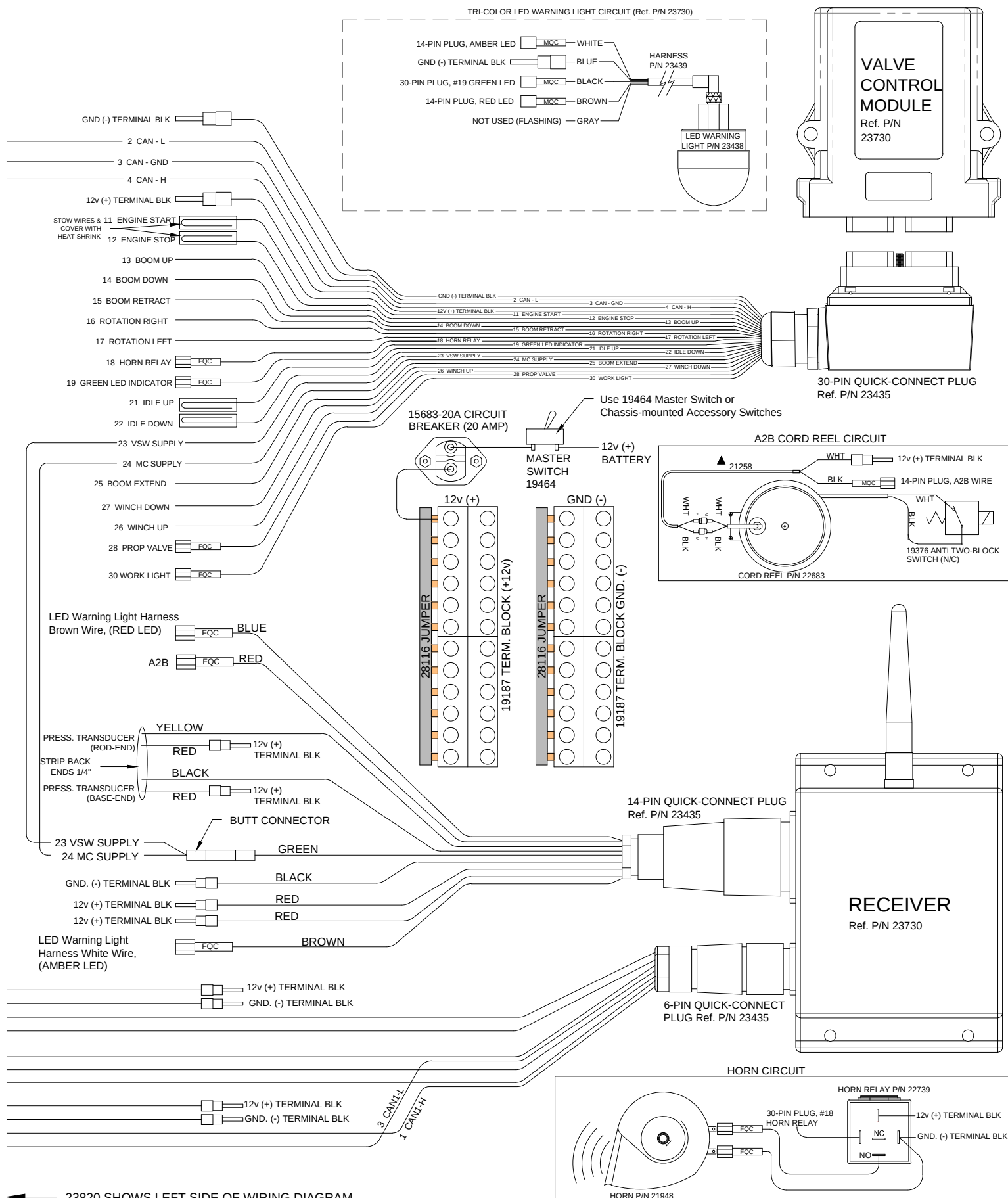
HT60/66KX W/ ROTZLER TI-2

DATE
04-17-23B

SUPERSEDES
11-21-22A

SECTION
C400

23836



VENCO VENTURO INDUSTRIES LLC
 CINCINNATI, OHIO

TITLE
WIRING DIAGRAM, PG. 2

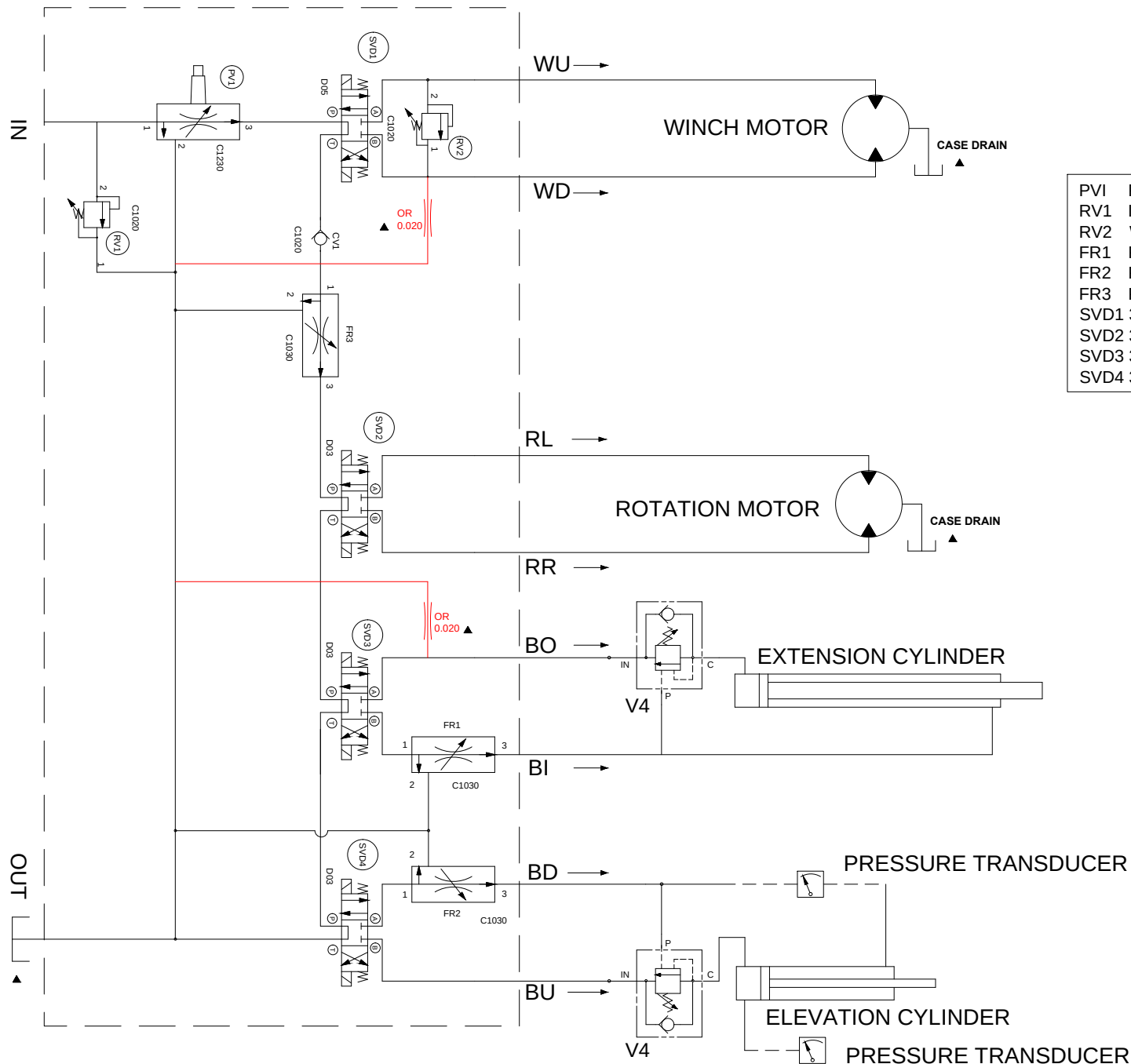
HT60/66KX VLC SERIES

DATE
08-29-23F

SUPERSEDES
11-21-22E

SECTION
C400

23821



- PV1 PROPORTIONAL CONTROL VALVE (SIMPLIFIED REP)
- RV1 INLET RELIEF VALVE
- RV2 WINCH RELIEF VALVE
- FR1 PRIORITY FLOW REGULATOR - 2.25 GPM
- FR2 PRIORITY FLOW REGULATOR - 4.00 GPM
- FR3 PRIORITY FLOW REGULATOR - 7.50 GPM
- SVD1 3 POSITION - 4 WAY VALVE
- SVD2 3 POSITION - 4 WAY VALVE
- SVD3 3 POSITION - 4 WAY VALVE
- SVD4 3 POSITION - 4 WAY VALVE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
HYDRAULIC SYSTEM DIAGRAM

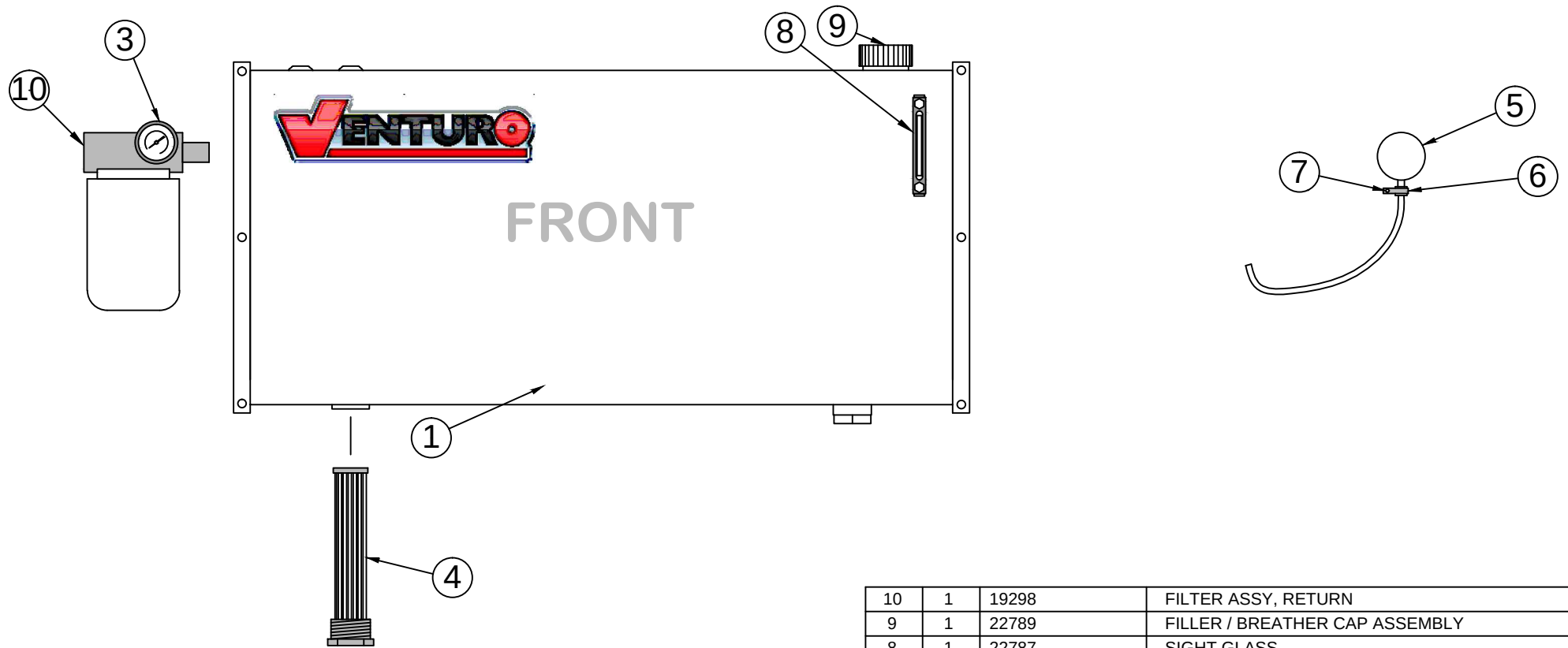
HT60/66KX VLC SERIES

DATE
12-04-23D

SUPERSEDES
11-22-22C

SECTION
C400

23822



10	1	19298	FILTER ASSY, RETURN
9	1	22789	FILLER / BREATHER CAP ASSEMBLY
8	1	22787	SIGHT GLASS
7	1	!HWHS02520075-F	HEX WASHER HEAD 1/4-20 X 3/4 SELF TAPPING
6	1	19275	CLAMP
5	1	22730	PRESSURE GAUGE ASSEMBLY
4	1	22788	SUCTION SCREEN - 100 MESH
3	1	19297	PRESSURE GAUGE - RETURN
2	-	-	-
* 1	1	22785	HYDRAULIC RESERVOIR - 25 GAL (18" x 40" x 8")
		22998	HYDRAULIC RESERVOIR - 40 GAL (20" x 42" x 11")
ITEM	QTY	PART NUMBERS	DESCRIPTION



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

RESERVOIR KIT REPL PARTS

DATE

12-09-22D

SECTION

C400

HT CRANES; 25/40 GAL RESERVOIR

SUPERSEDES

08-04-15C

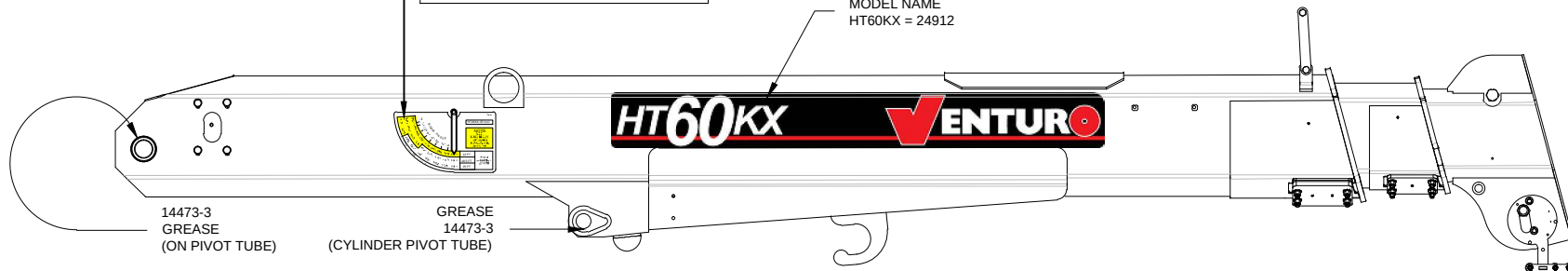
23224

HT60KX - HWBA*A-****

BOOM CAPACITY HT60KX - 25' BOOM
24914-R - RIGHT SIDE
24914-L - LEFT SIDE

BOOM CAPACITY HT60KX - 30' BOOM
24915-R - RIGHT SIDE
24915-L - LEFT SIDE

MODEL NAME
HT60KX = 24912



INSIDE REAR COVER

MANUAL OVERRIDE (LEFT)
22768-1

MANUAL OVERRIDE (RIGHT)
22768-2

VALVE OVERRIDE
19315-2

VLC, 2.94" x 6"
23742

OIL
14473-1

KNOW YOUR SIGNALS
22499

VENTURO MEDIUM
17389

GREASE
14473-3

VLC, 2.94" x 6"
23742

DANGER
NOT A PASSENGER LIFT
15391

OVERRIDE INSTRUCTNS
20834

CAUTION
15390

DANGER
ELECTRICAL HAZARD
15392

DANGER
UNLAWFUL TO OPERATE
15401

GREASE
14473-3



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
DECAL PLACEMENT

HT60KX VLC SERIES

DATE
11-10-22

SUPERSEDES
-

SECTION
C400

28442

24911 FIELD SERVICE LABEL KIT; HT60KX

-25' BOOM	-30' BOOM		
QTY		PART #	DESCRIPTION
1	1	19814-1	DECAL; HORN RELAY
1	1	19814-2	DECAL; WORK LIGHT RELAY
1	1	17389	DECAL; VENTURO LOGO, MEDIUM
2	2	24912	DECAL; MODEL NAME, HT60
2	2	23742	DECAL; VLC MODEL SERIES
1	-	24914-R	DECAL; BOOM CAPACITY, 12-18.5-25, RIGHT
1	-	24914-L	DECAL; BOOM CAPACITY, 12-18.5-25, LEFT
-	1	24915-R	DECAL; BOOM CAPACITY, 13-22-30, RIGHT
-	1	24915-L	DECAL; BOOM CAPACITY, 13-22-30, LEFT
1	1	14473-1	DECAL; OIL
8	8	14473-3	DECAL; GREASE
1	1	17813	DECAL; OVERLOAD SENSING SYSTEM
1	1	22499	DECAL; KNOW YOUR SIGNALS
1	1	20834	DECAL; MANUAL OVERRIDE, INSTRUCTIONS
1	1	19315-2	DECAL; MANUAL OVERRIDE SHUT-OFF, PROPORTIONAL
1	1	22768-1	DECAL; MANUAL OVERRIDE, PROPORTIONAL, LEFT
1	1	22768-2	DECAL; MANUAL OVERRIDE, PROPORTIONAL, RIGHT
2	2	27007-17a	DECAL; LOAD BLOCK RATED CAPACITY
1	1	28441	IDWG: FIELD SERVICE LABEL KIT
1	1	28442	IDWG: DECAL PLACEMENT
1	1	INST-23233	SAFETY MANUAL, VENTURO CRANES
1	1	15397	KIT; ACCIDENTAL PREVENTION SIGNS



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

FIELD SERVICE LABEL KIT

HT60KX

DATE

04-25-23A

SUPERSEDES

11-10-22

SECTION

C400

28441



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.

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