



INST-26924

*HUBA\*C-V\*A0*

# PARTS & INSTALLATION MANUAL

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## HT45KX SERIES

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Included in this manual:

### HT45KX (VLC)

- 7,500 lb Hydraulic Telescopic Service Crane
- Venturo Logic Control Systems (VLC-H / VLC-K) w/ Proportional Control
- 20, 25, or 30 ft Fully-Powered, Two-Stage Boom Extension

VENCO VENTURO INDUSTRIES LLC  
12110 BEST PLACE | CINCINNATI, OHIO 45241  
800-226-2238



This manual also available online at [www.venturo.com](http://www.venturo.com).



# HT45KX SERIES

INST-26924 - 7/22/2025 (Rev: A6)

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# **SECTION 100**

## **DESCRIPTION**

### **&**

## **SPECIFICATIONS**



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

## SPECIFICATIONS

PTO-driven hydraulic system

12-volt electrical controls (e.g. valve coils)

45,000 ft-lb overturning moment (or as limited by truck stability)

Venturo Logic Controls (VLC) crane control management system

Hydraulic winch - 3,000 lb single-line capacity with automatic load brake

Hydraulic boom elevation

Hydraulic boom extension

Hydraulic 400° rotation

VLC radio remote control pendant

In-compartment electrical control panel (optional)

Accessories (optional):

Stabilizers: 25100-CD, 25500-PHX(D), 26100-PHX(D)

Pedestal: 17830

Boom Rest: 20381-1, VT1199

TELESCOPIC BOOM	10.4 - 20.8 ft	11.9 - 25.2 ft	13.5 - 30.2 ft
BOOM ELEVATION	-5° TO 75°	-5° TO 75°	-5° TO 75°
BOOM HYD EXTENSION	10 ft	13 ft	16.3 ft
BOOM MANUAL EXT	-	-	-
CAPACITY	2250 lb @ 20.5 ft	1500 lb @ 25.0 ft	1400 lb @ 30.0 ft
	7500 lb @ 5.5 ft	7800 lb @ 4.5 ft	7800 lb @ 4.0 ft
WIRE ROPE	3/8" x 100 ft	3/8" x 100 ft	3/8" x 125 ft



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

SPECS & OP. FEATURES

HT45KX

DATE

03-19-25

SUPERSEDES

-

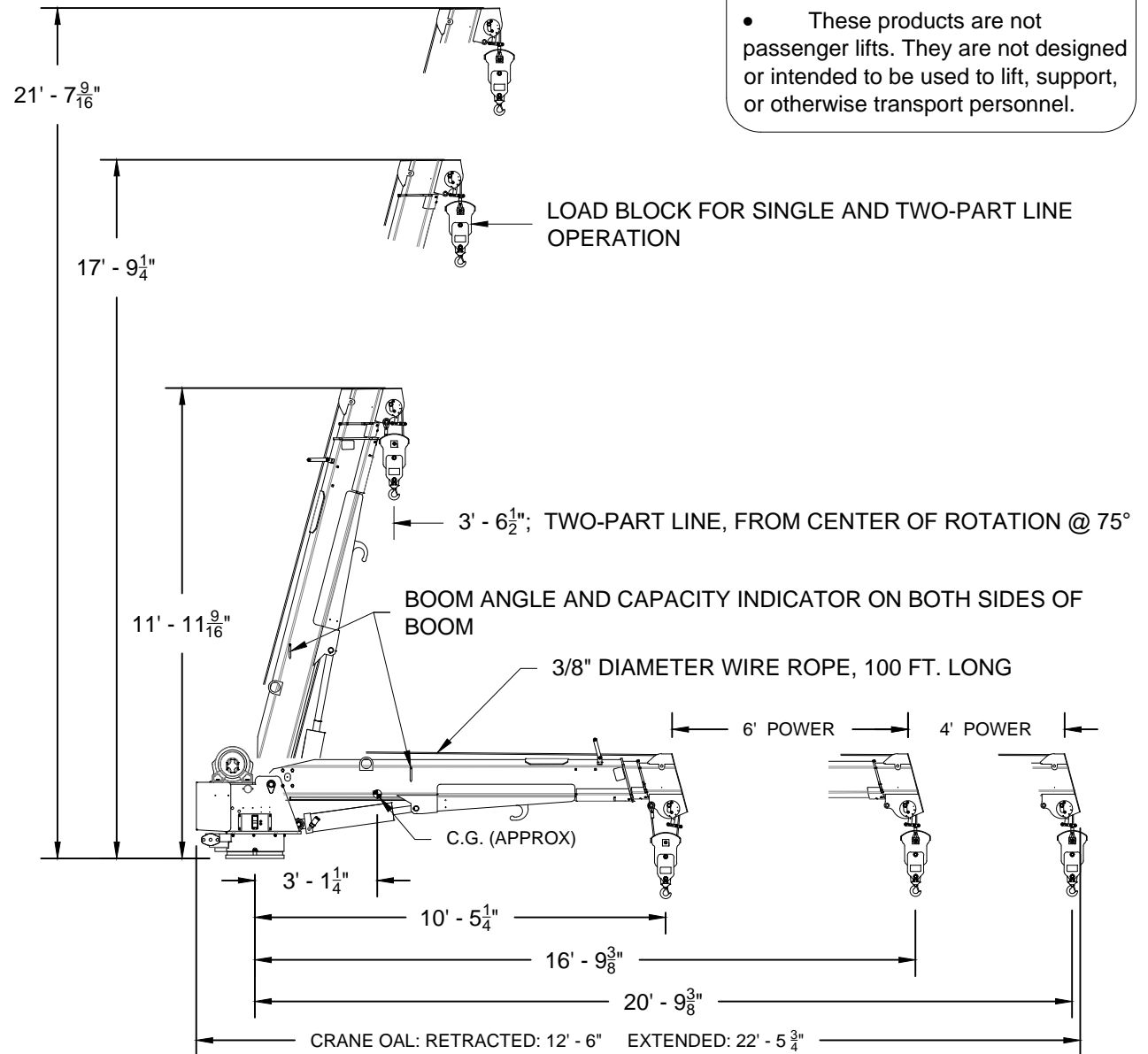
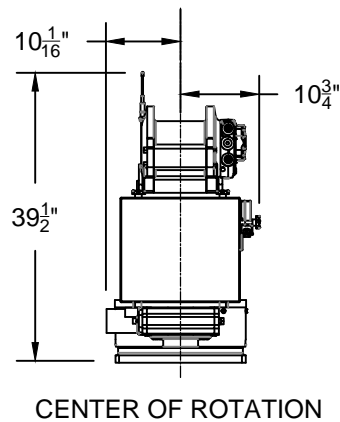
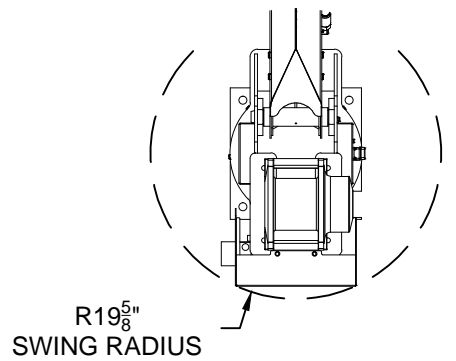
SECTION

C100

24446

# **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

HT40/45/50KX-20' BOOM

DATE  
10-03-24A

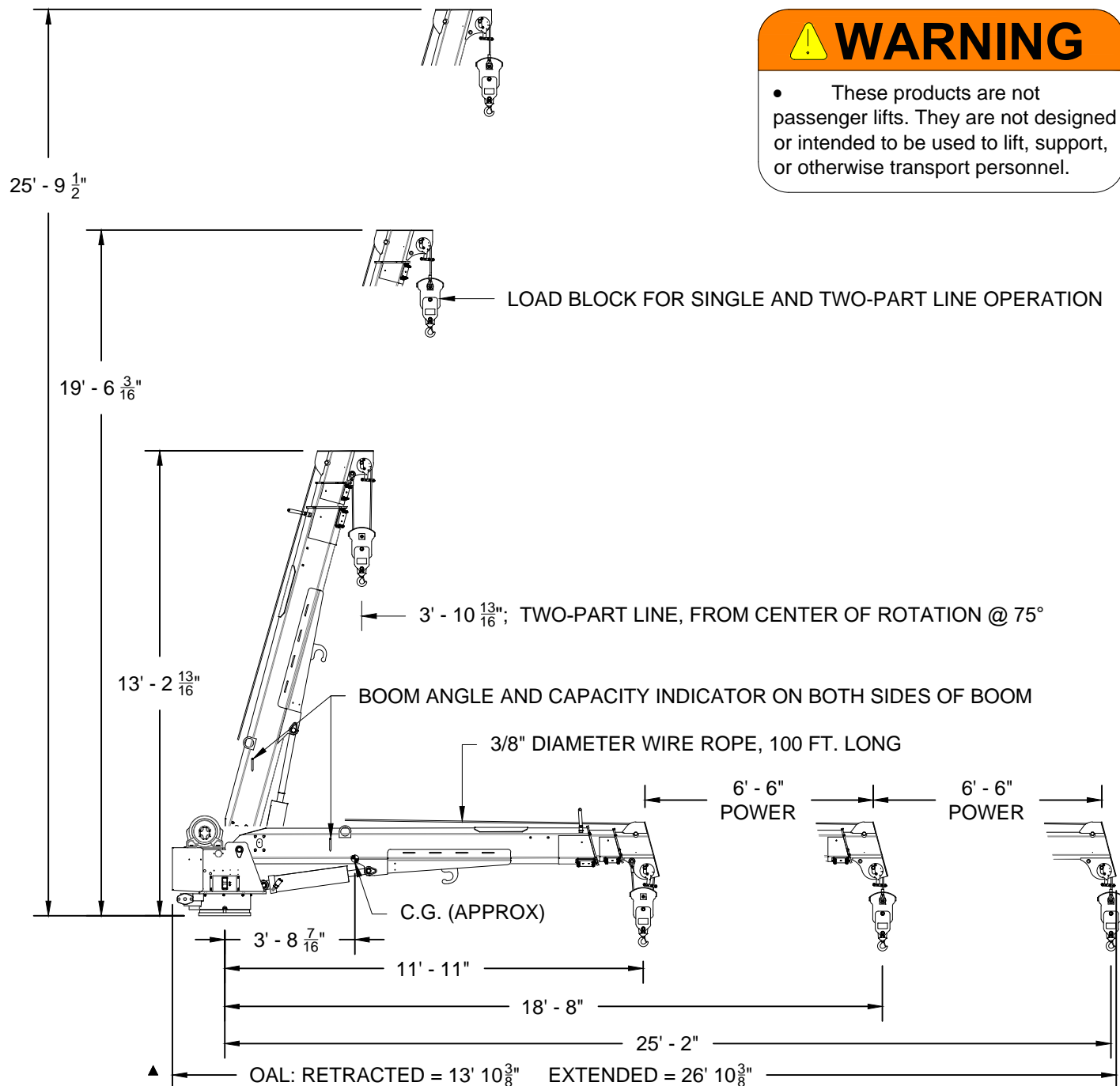
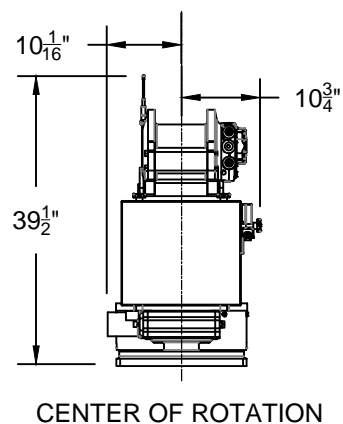
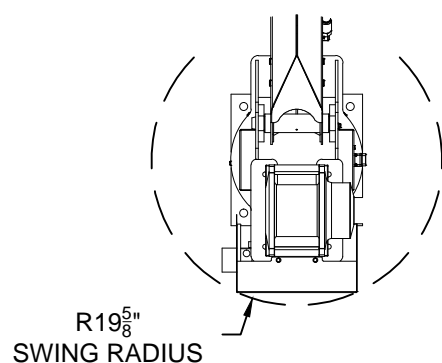
SUPERSEDES  
05-25-23

SECTION  
C100

26894

# WARNING

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



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## INSTALLATION DIMENSIONS

HT40/45/50KX-25' BOOM

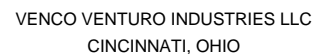
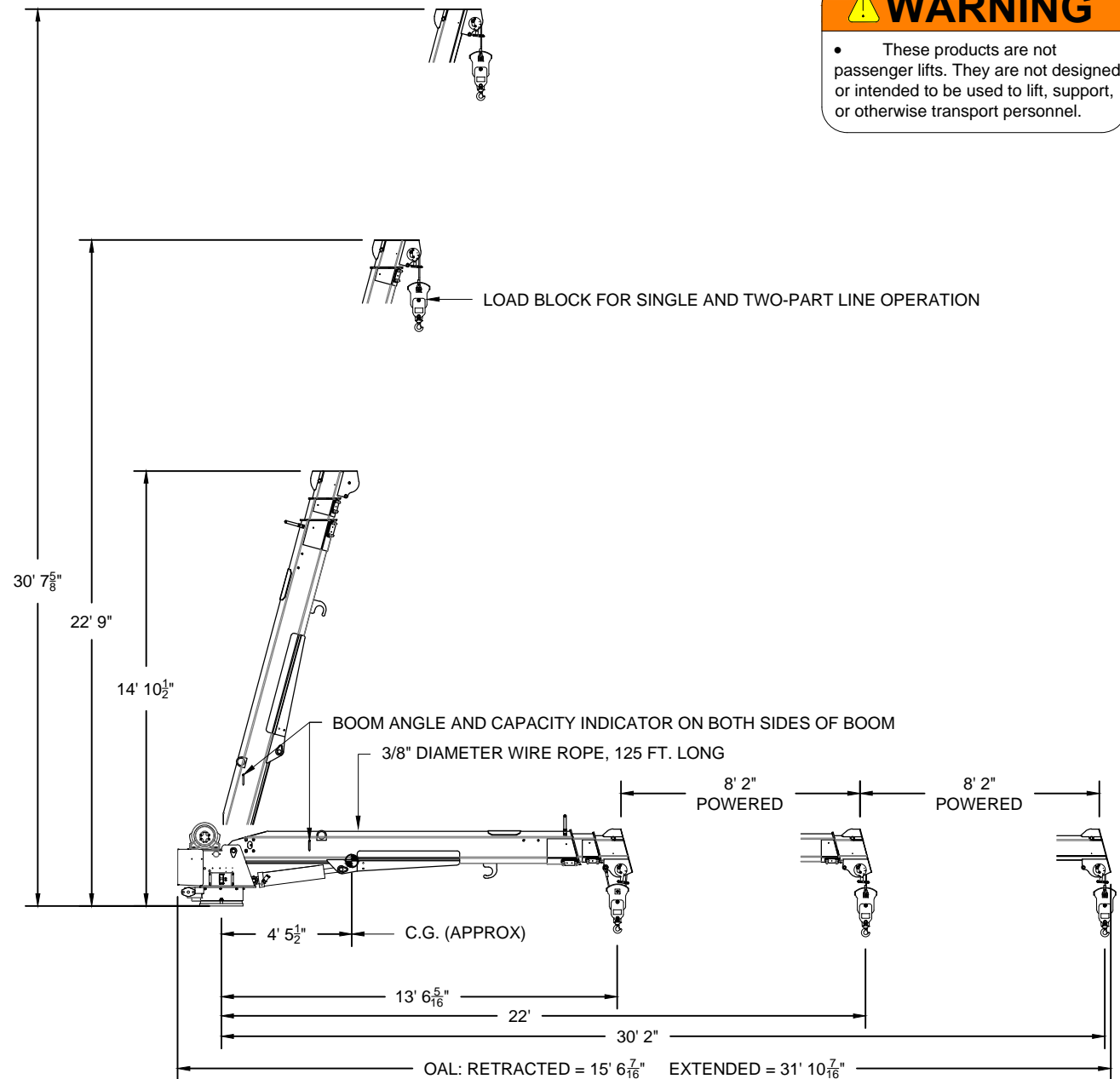
DATE  
10-03-24A

SUPERSEDES  
05-25-23

SECTION  
C100

26893

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

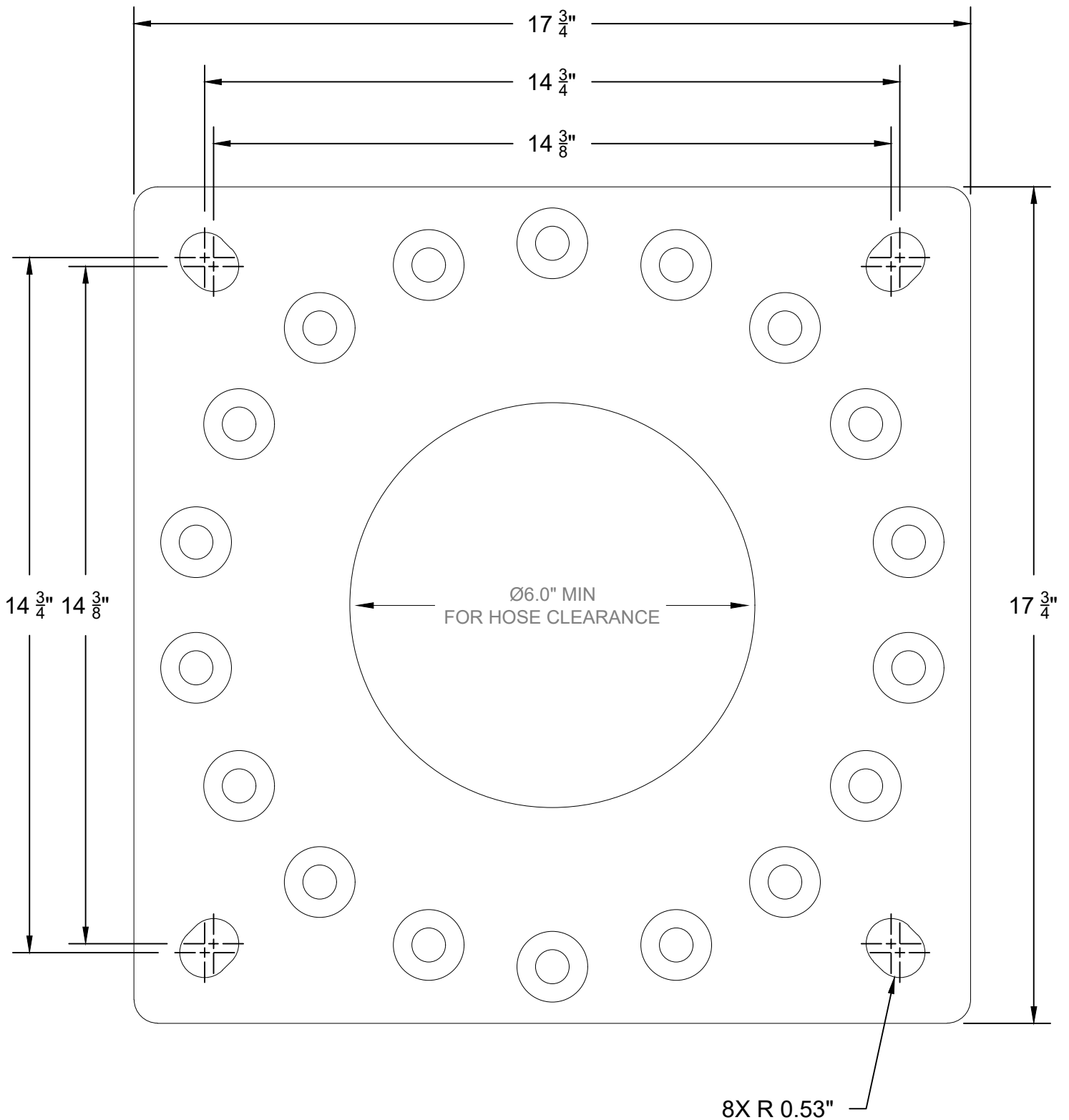


HT45/50KX-30' BOOM

SUPERSEDES
05-26-23A

24161

# HT40/45/50KX SERIES MOUNTING DIMENSIONS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
MOUNTING DIMENSIONS

HT40/45/50KX SERIES

DATE  
09-03-24A

SUPERSEDES  
05-25-23

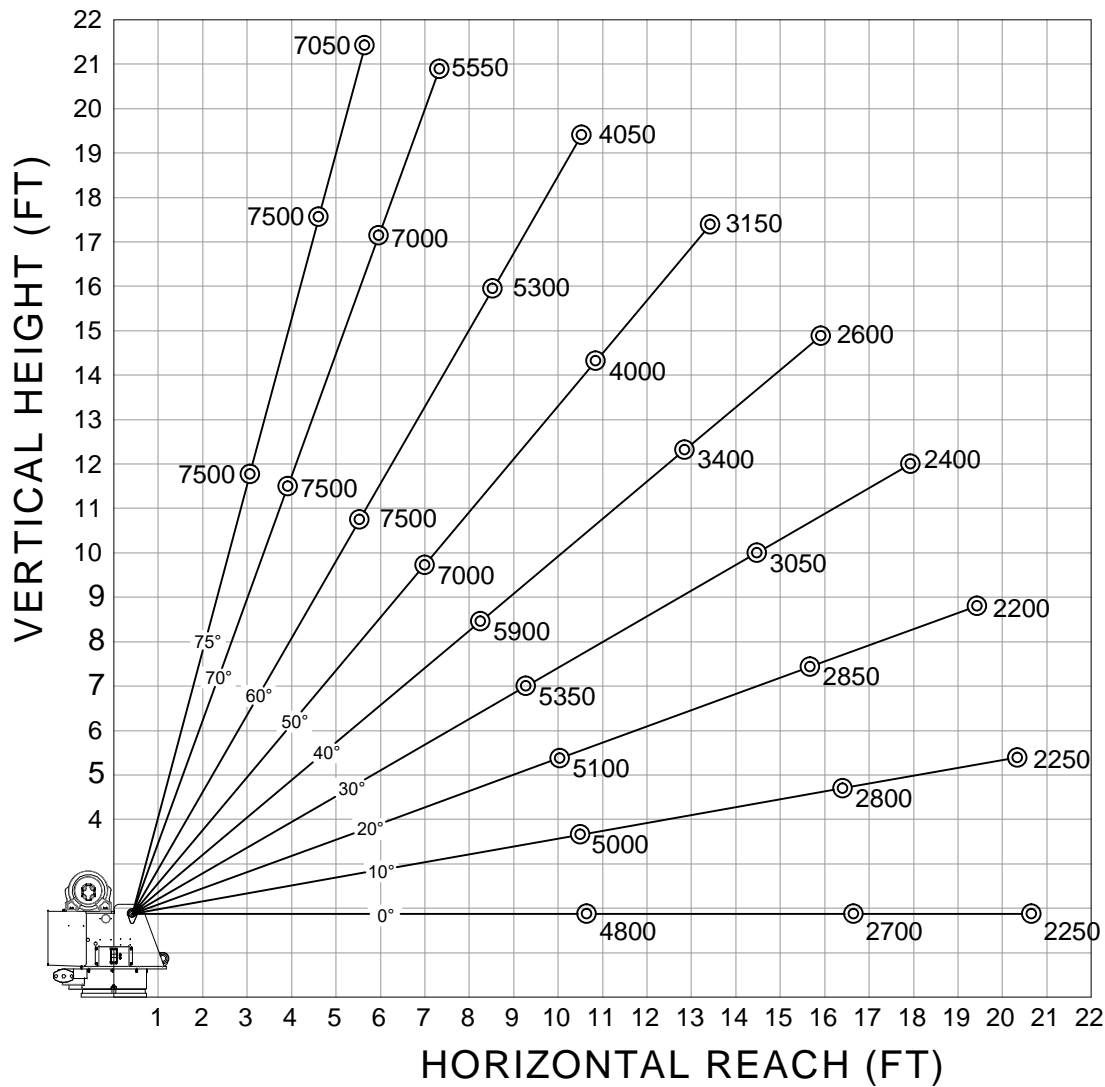
SECTION  
C100

26892

HT45KX, 10' - 16' - 20' BOOM, WITH VENTURO LOGIC CONTROL SYSTEM  
AND 7,500 LB CAPACITY

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 3000 LBS

2-PART LINE FOR LOADS OF 3000 LBS AND GREATER

WEIGHT OF LOAD BLOCK = 51 LBS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

MAXIMUM LOAD CAPACITY

DATE

05-02-22A

SECTION

C100

HT45KX-20', VLC, 7,500 LB CAP.

SUPERSEDES

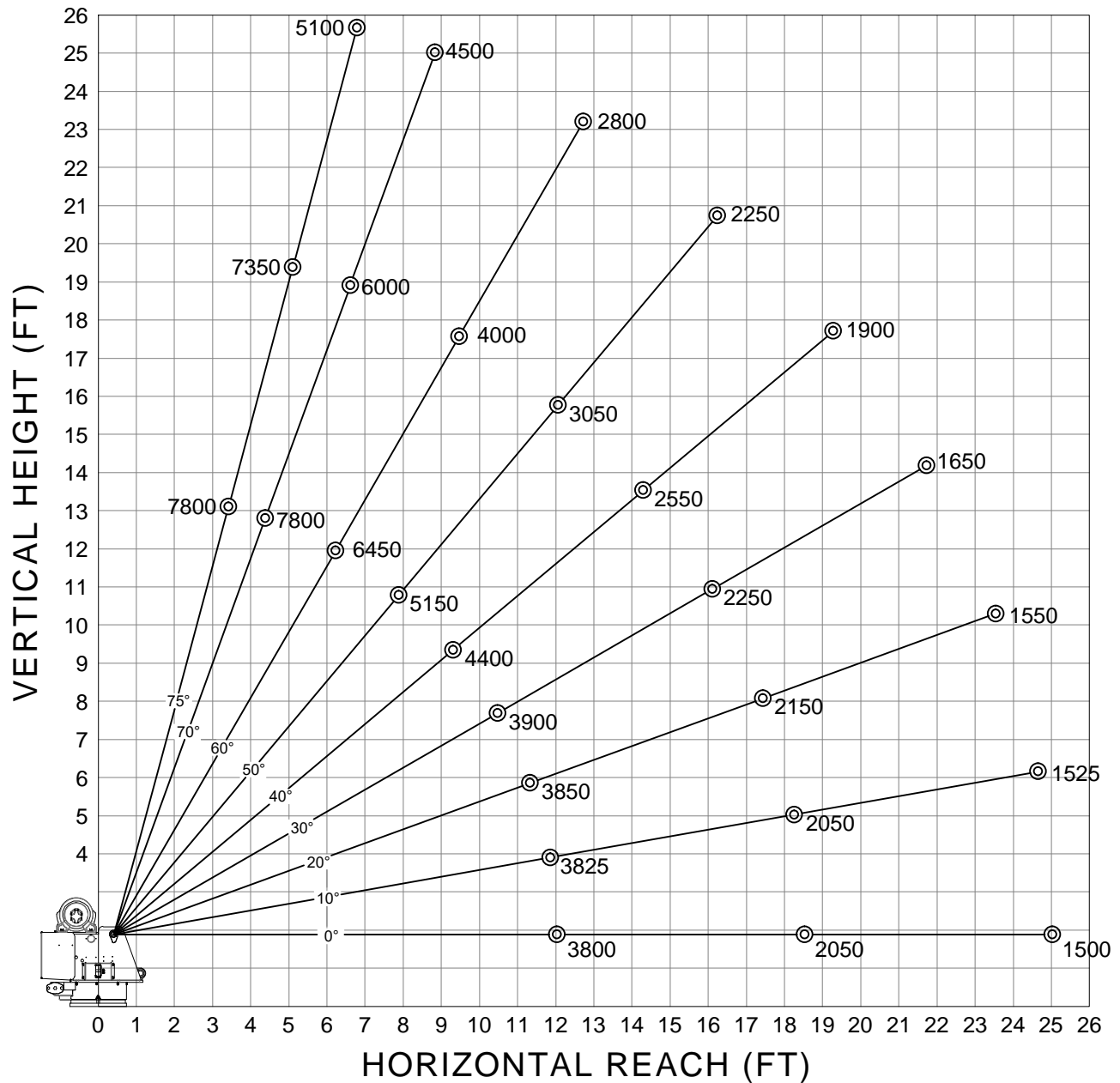
05-13-19

24042

HT45KX, 12' - 18.5' - 25' BOOM, WITH VENTURO LOGIC CONTROL SYSTEM  
AND 7,800 LB CAPACITY

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 3000 LBS

2-PART LINE FOR LOADS OF 3000 LBS AND GREATER

WEIGHT OF LOAD BLOCK = 51 LBS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

MAXIMUM LOAD CAPACITY

HT45KX-25', VLC, 7,800 LB CAP.

DATE

05-02-22A

SUPERSEDES

10-11-18

SECTION

C100

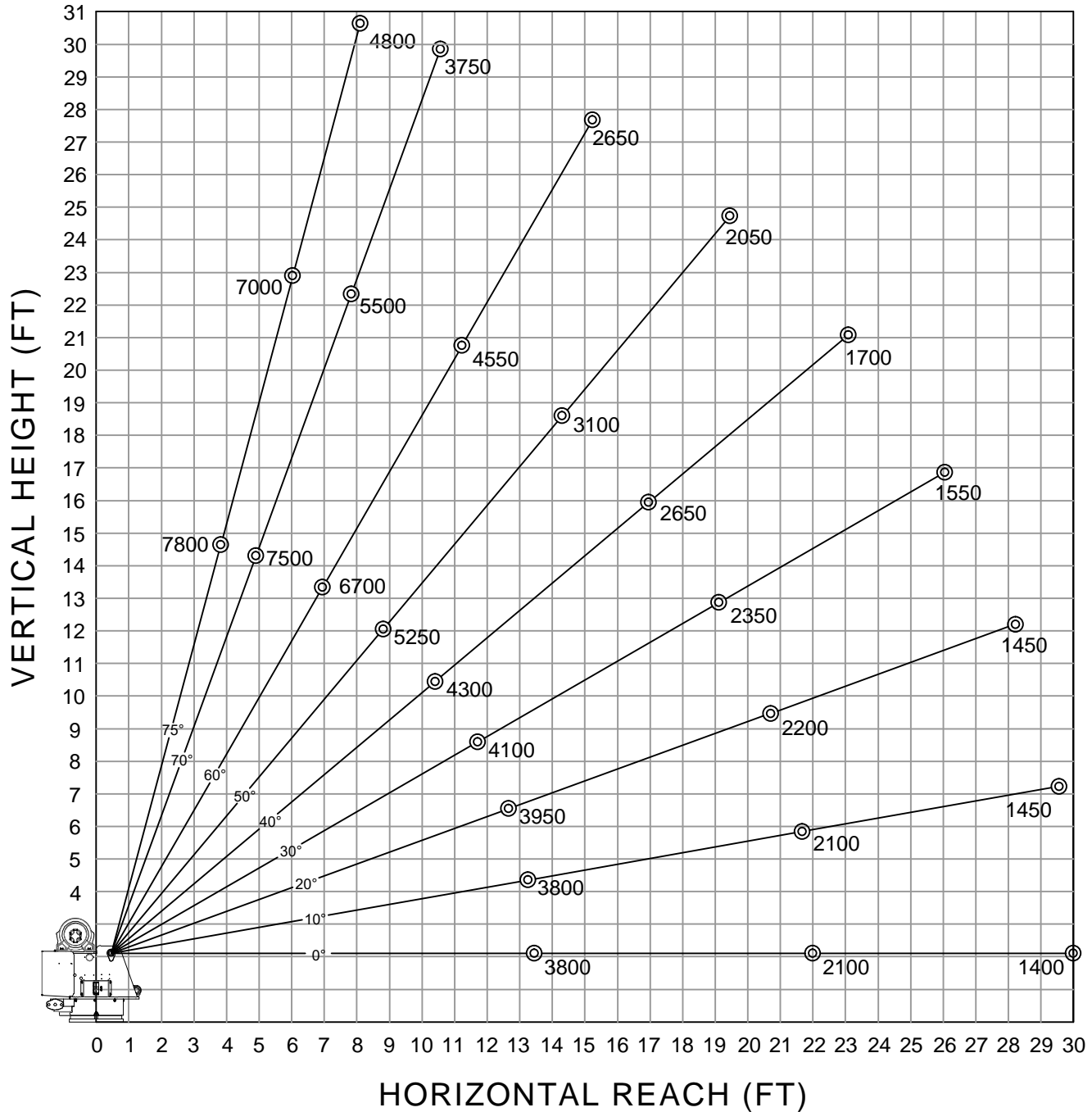
24249



HT45KX, 13' - 22' - 30' BOOM, WITH VENTURO LOGIC CONTROL SYSTEM  
AND 7,800 LB CAPACITY

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 3000 LBS  
2-PART LINE FOR LOADS OF 3000 LBS AND GREATER  
WEIGHT OF LOAD BLOCK = 51 LBS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

MAXIMUM LOAD CAPACITY

DATE

07-08-22C

SECTION

C100

HT45KX-30', VLC, 7,800 LB CAP.

SUPERSEDES

05-02-22B

24162

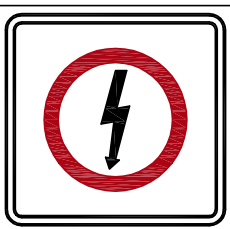
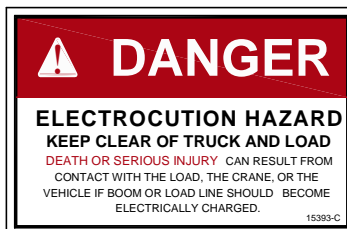
# SECTION 150

## SAFETY

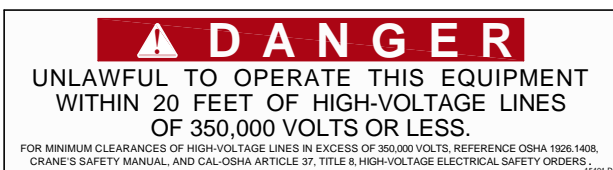


VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

# 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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CINCINNATI, OHIO

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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

CRANE SAFETY & HZRDS

DATE

02-21-14D

SECTION

C150

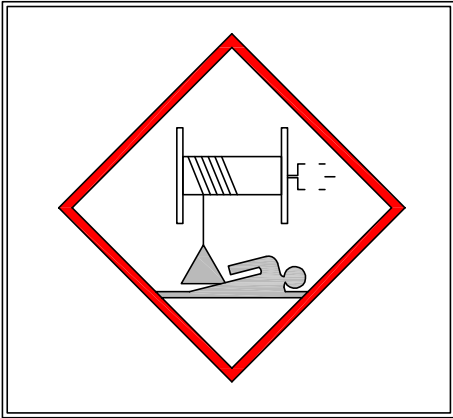
HYDRAULIC CRANES

SUPERSEDES

04-04-12C

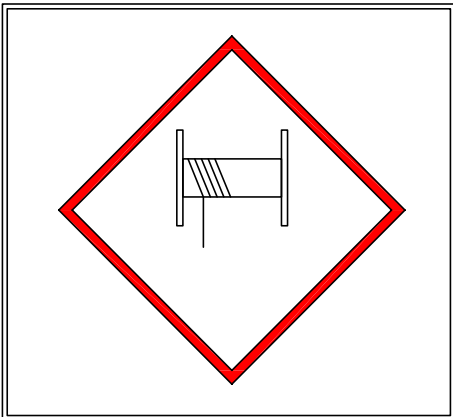
**920612**

# WINCH SAFETY WARNINGS



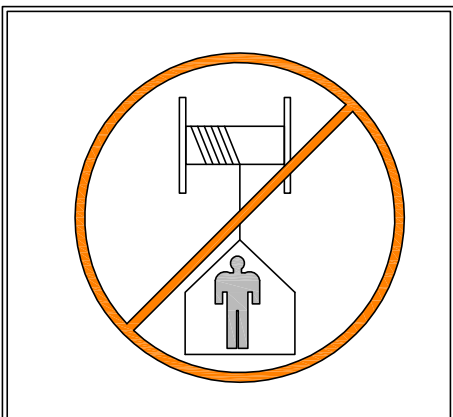
## DANGER

- 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



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

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.



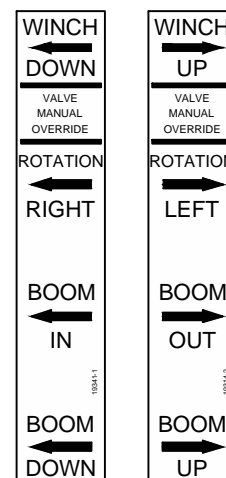
PART NO.: 19314-1 [LEFT] & -2 [RIGHT]

DECAL: MANUAL OVERRIDE (NON-PROP)

FUNCTION: To inform the operator of manual override locations.

QUANTITY: 1 EACH

PLACEMENT: Inside of rear cover.



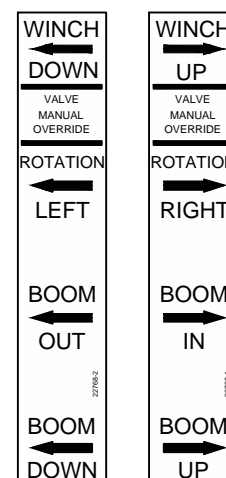
PART NO.: 22768-1 [LEFT] & -2 [RIGHT]

DECAL: MANUAL OVERRIDE (PROPORTIONAL)

FUNCTION: To inform the operator of manual override locations.

QUANTITY: 1

PLACEMENT: Inside of rear cover.



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CINCINNATI, OHIO

TITLE  
DECAL DRAWING & LIST

HT40/50/60/66 SERIES

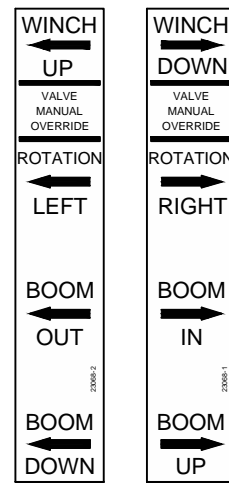
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SUPERSEDES  
02-21-14D

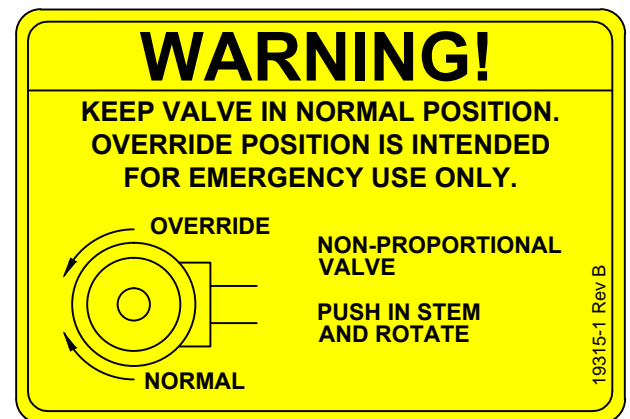
SECTION  
C150

22181A

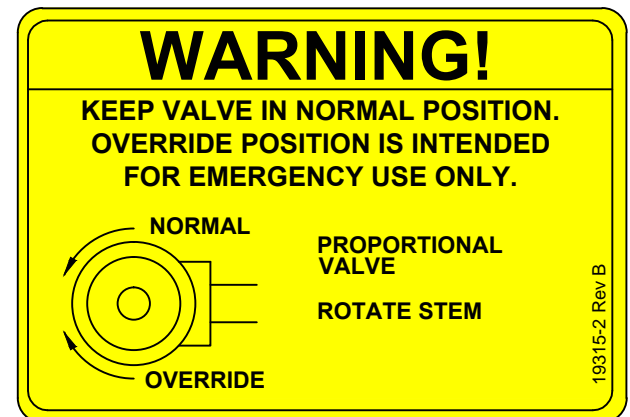
▲  
**PART NO.:** 23068-1 [LEFT] & -2 [RIGHT]  
**DECAL:** MANUAL OVERRIDE  
 (HT66KXX w/ TH-2 Winch ONLY)  
**FUNCTION:** To inform the operator of  
 manual override locations.  
**QUANTITY:** 1  
**PLACEMENT:** Inside of rear cover.



**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.



VENCO VENTURO INDUSTRIES LLC  
 CINCINNATI, OHIO

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.



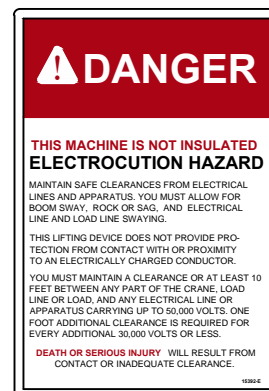
PART NO.: 15392

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.



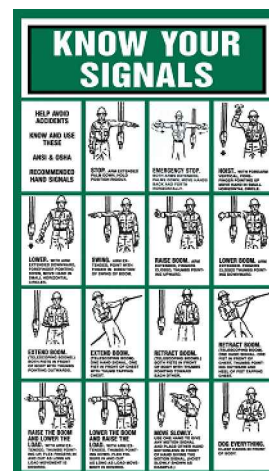
PART NO.: 22499

DECAL: KNOW YOUR SIGNALS

FUNCTION: To inform the operator of proper signals.

QUANTITY: 1

PLACEMENT: Right side of rear cover.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
DECAL DRAWING & LIST

HT40/50/60/66 SERIES

DATE  
11-30-22F

SUPERSEDES  
02-21-14E

SECTION  
C150

22181C



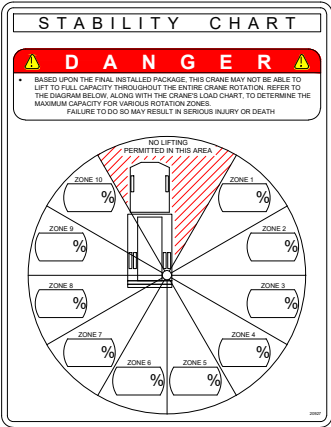
PART NO.: 17389  
DECAL: MEDIUM VENTURO  
FUNCTION: Branding.  
QUANTITY: 1  
PLACEMENT: Rear cover.



PART NO.: 28525  
DECAL: MODEL HT45KX  
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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
DECAL DRAWING & LIST  
HT45KX

DATE  
06-19-23  
SUPERSEDES  
-

SECTION  
C150  
28526

# LEFT SIDE OF BOOM

# RIGHT SIDE OF BOOM

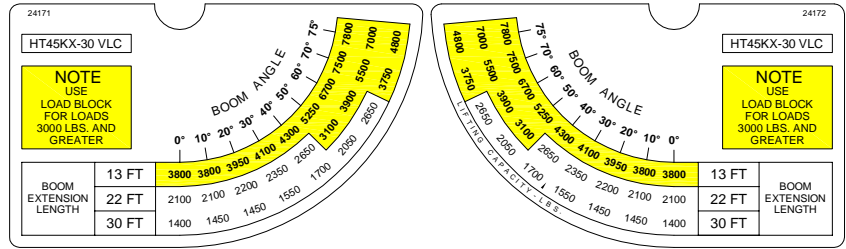
PART NO.: 24171 & 24172

DECAL: HT45-30' CRANE CAPACITY (VLC)

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

QUANTITY: 1 each

PLACEMENT: Right side of boom, Left side of boom



24171

24172

# LEFT SIDE OF BOOM

# RIGHT SIDE OF BOOM

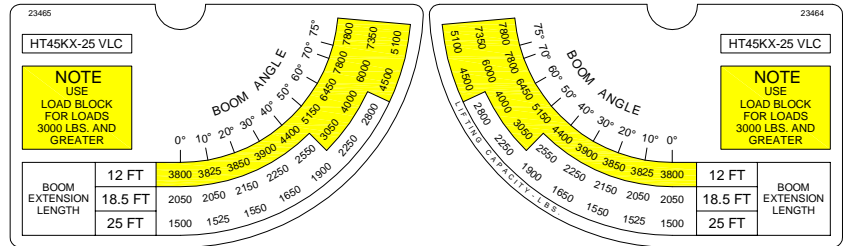
PART NO.: 23464 & 23465

DECAL: HT45-25' CRANE CAPACITY (VLC)

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

QUANTITY: 1 each

PLACEMENT: Right side of boom, Left side of boom



23465

23464

# LEFT SIDE OF BOOM

# RIGHT SIDE OF BOOM

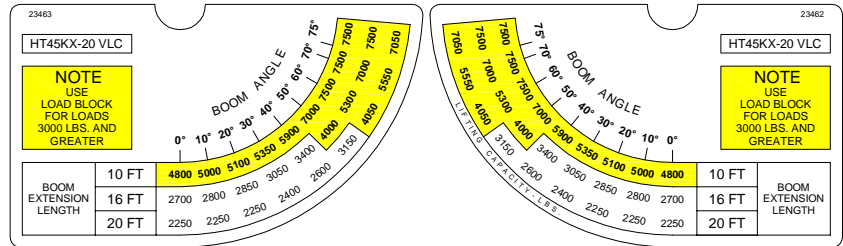
PART NO.: 23462 & 23463

DECAL: HT45-20' CRANE CAPACITY (VLC)

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

QUANTITY: 1 each

PLACEMENT: Right side of boom, Left side of boom



23463

23462

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  
HT45 SERIES

DATE  
06-29-21D  
SUPERSEDES  
05-28-20C

SECTION  
C150  
23749

▲

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



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE	DATE	SECTION
VLC DECALS	02-06-19A	C150
VLC SERIES CRANES	SUPERSEDES 10-11-18	23748

# SECTION 200

# INSTALLATION



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

## CRANE INSTALLATION, PAGE 1

### HT45KX 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 HT45KX is 45,000 ft. lbs.

The maximum vertical loads for the HT45KX are listed based on the boom length:

HT45KX VLC			
BOOM LENGTH (FT)	20'	25'	30'
MAX VERTICAL LOAD (LBS)	9400	9850	10050

#### 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" diameter with coarse threads, torqued to 680 foot pounds.

- ▲ A 6" - 8" diameter 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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE
CRANE INSTALLATION
HT45KX VLC SERIES

DATE
01-17-25A
SUPERSEDES
05-23-23

SECTION
C200
26900

## 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 LINE	HOSE INSIDE DIAMETER
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 GPM. The crane's system relief pressure is set at 3000 psi.

## 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 GPM with a 40 gallon reservoir, operate the PTO system for 20-25 minutes 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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

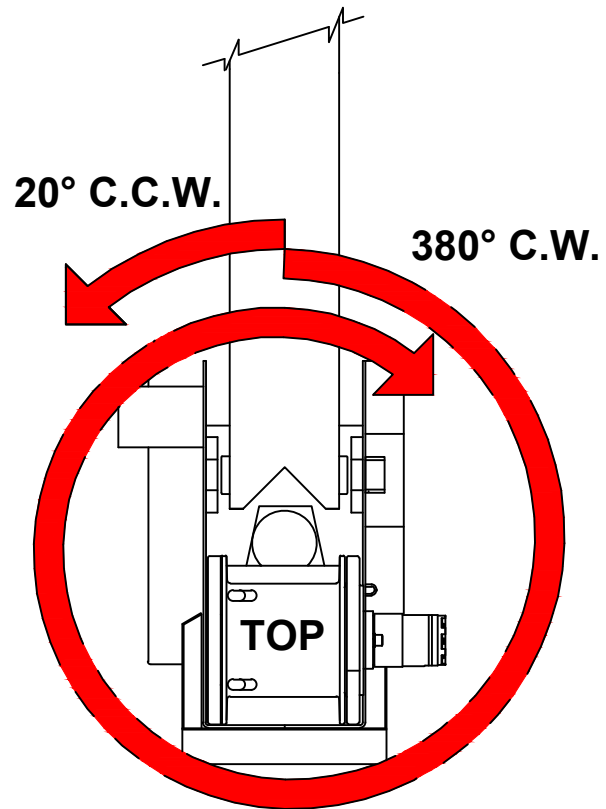
TITLE
CRANE INSTALLATION
HT45/60/66 VLC SERIES

DATE
07-15-24C
SUPERSEDES
11-10-22B

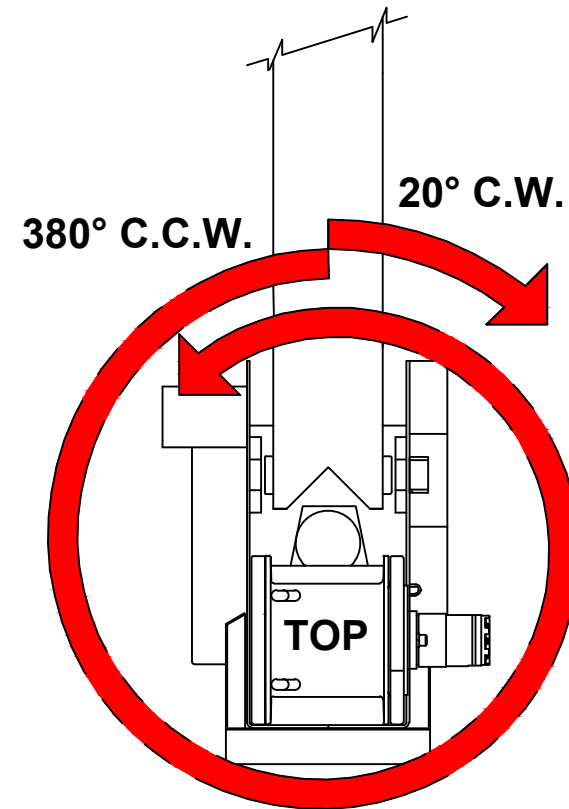
SECTION
C200
23806

# 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 - HT45-20'-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 **2647 lbs**, (includes load block weight of **51 lbs.**) to a **maximum of 2800 lbs**.
- ▲ 6. Place the VLC system into **Stability Mode** (reference VLC Manual).
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**.
$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{249} \times 100$$
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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

STABILITY TEST

HT45-20'-VLC SERIES

DATE

06-07-24D

SUPERSEDES

11-24-21C

SECTION

C200

20906-4520



# STABILITY TEST - HT45-25'-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 1765 lbs.**, (includes load block weight of 51 lbs.) to a **maximum of 1850 lbs.**
- ▲ 6. Place the VLC system into **Stability Mode** (reference VLC Manual).
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**.

$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{302} \times 100$$
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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

STABILITY TEST

HT45-25'-VLC SERIES

DATE

06-07-24F

SUPERSEDES

02-28-23E

SECTION

C200

20906-4525

# STABILITY TEST - HT45-30' 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 **1647 lbs.**, (includes load block weight of 51 lbs.) to a **maximum of 1750 lbs.**
- ▲ 6. Place the VLC system into **Stability Mode** (reference VLC Manual).
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 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**.

$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{362} \times 100$$
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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

STABILITY TEST

HT45-30' VLC SERIES

DATE

06-07-24D

SUPERSEDES

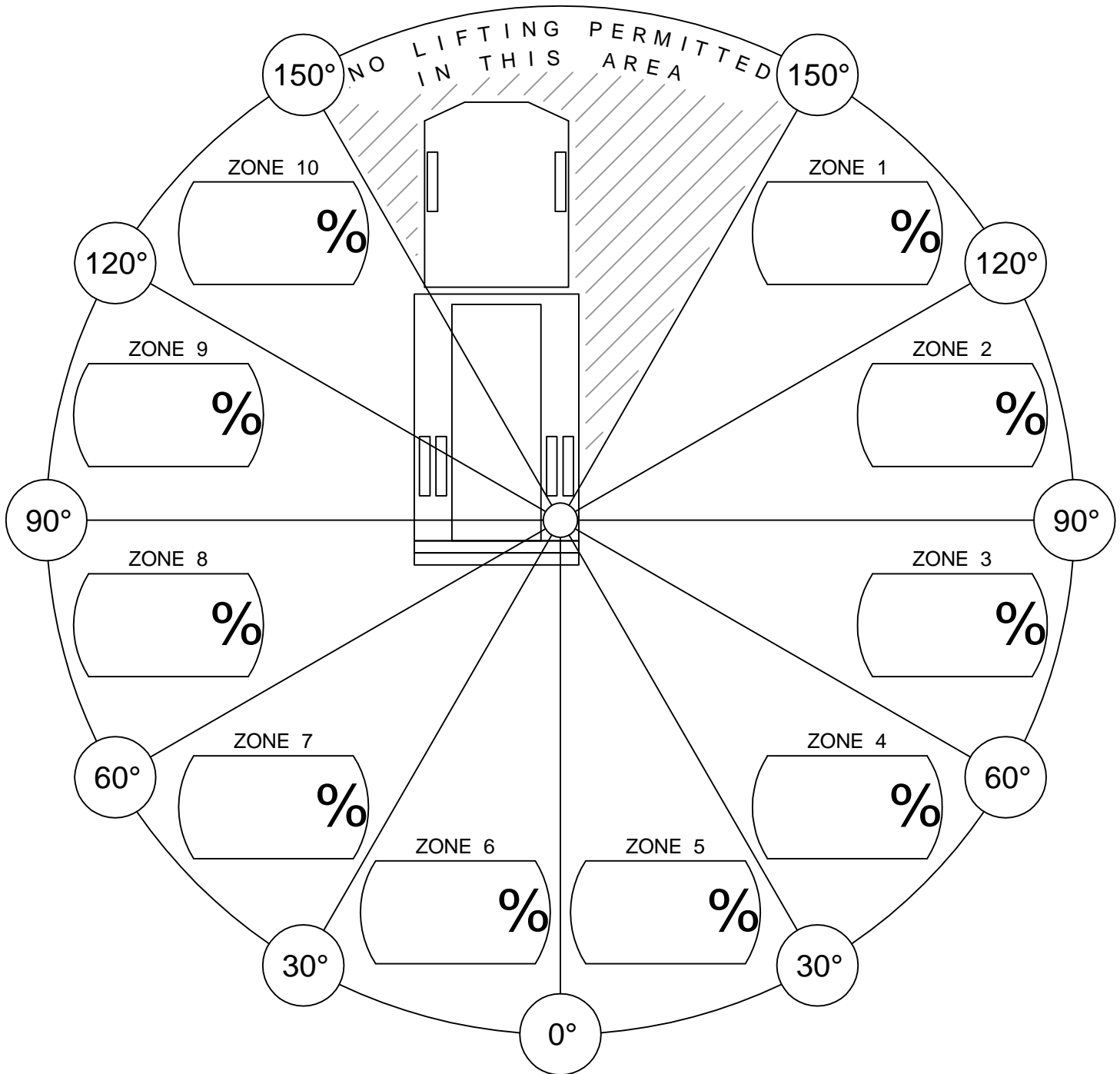
02-23-23C

SECTION

C200

20906-4530

# CRANE STABILITY



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

## CONDITIONS:

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



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
STABILITY CHART

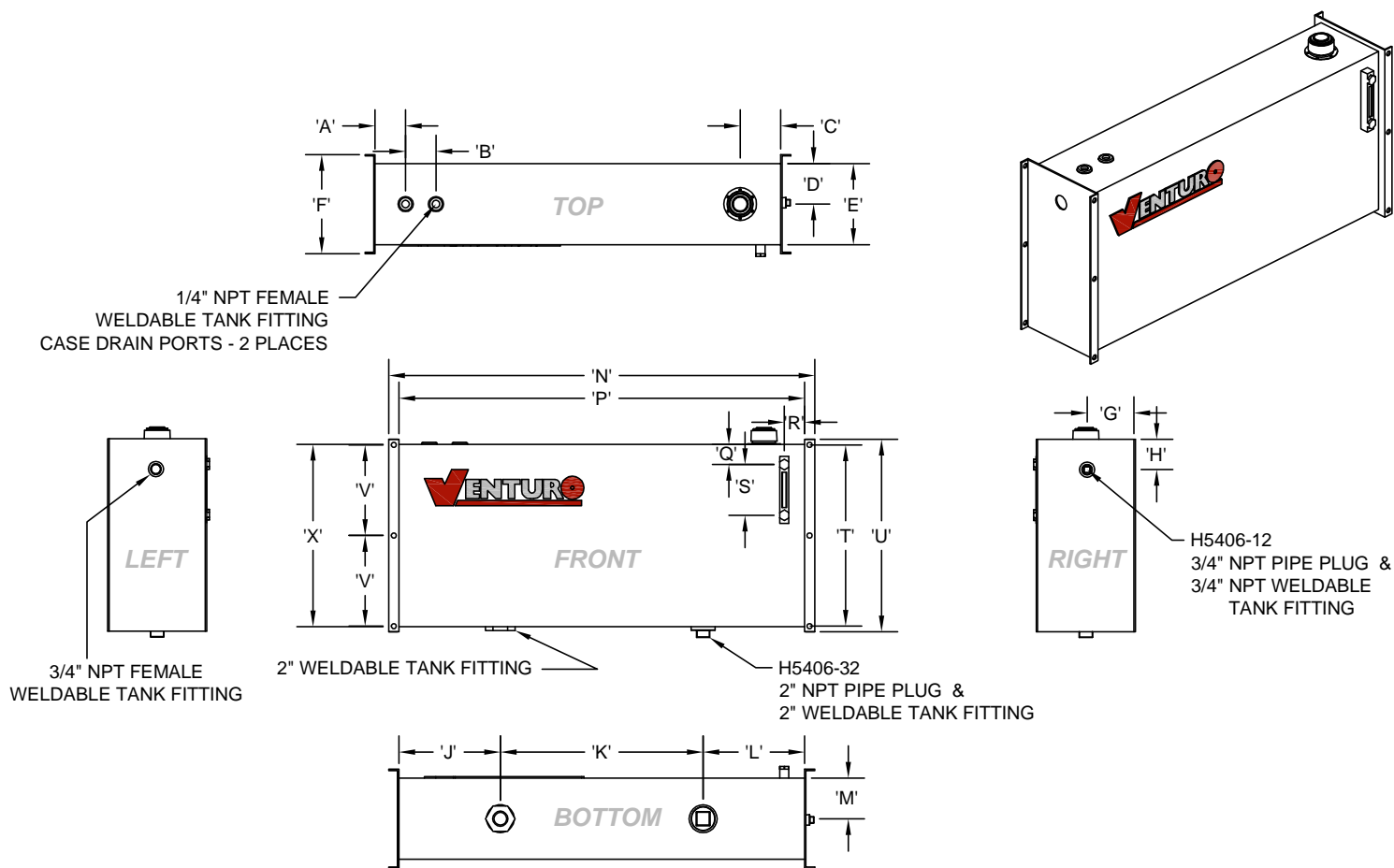
VENTURO CRANES

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

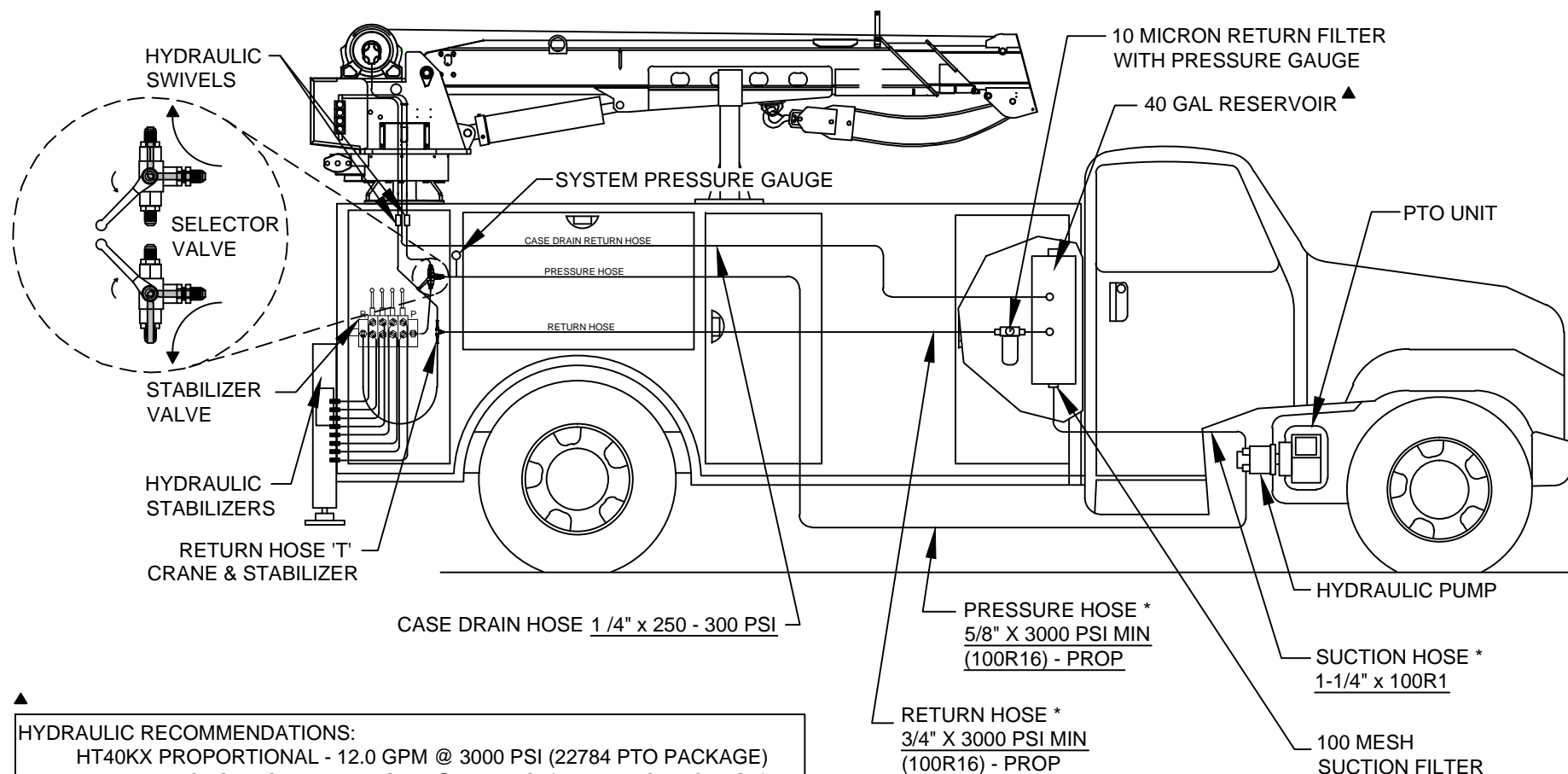


VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
**RESERVOIR DIMENSIONS**  
HYD. TANKS (25/40 GAL.)

DATE  
02-21-14E  
SUPERSEDES  
06-04-13D

SECTION  
C200  
**22825**



#### HYDRAULIC RECOMMENDATIONS:

HT40KX PROPORTIONAL - 12.0 GPM @ 3000 PSI (22784 PTO PACKAGE)  
 HT50KX PROPORTIONAL - 12.0 GPM @ 3000 PSI (22784 PTO PACKAGE)  
 HT45KX - 12.0 GPM @ 3000 PSI (22998 PTO PACKAGE)  
 HT55KX - 12.0 GPM @ 3000 PSI (22998 PTO PACKAGE)  
 HT60KX - 12.0 GPM @ 3000 PSI (22998 PTO PACKAGE)  
 HT66KX - 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

07-15-24H

SUPSEDES

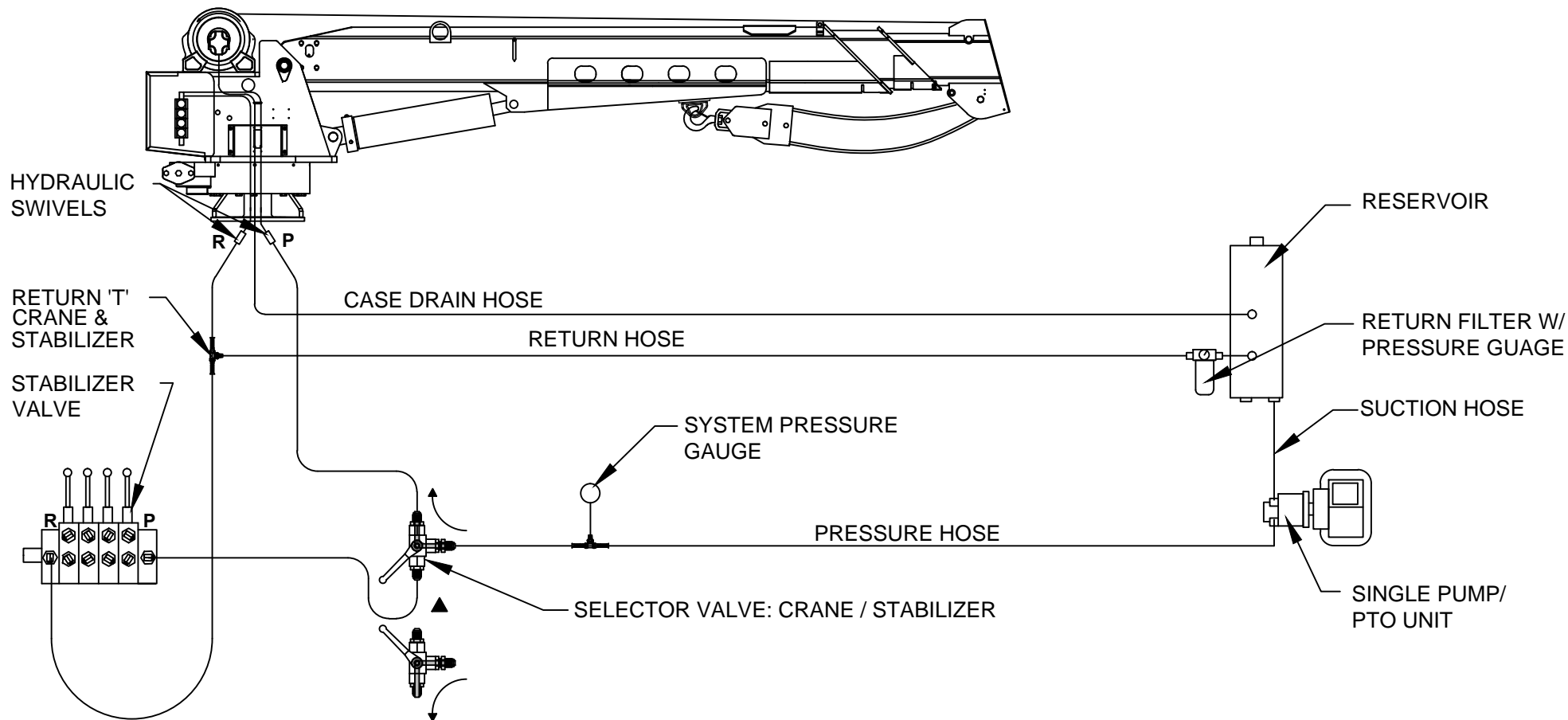
08-08-23G

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

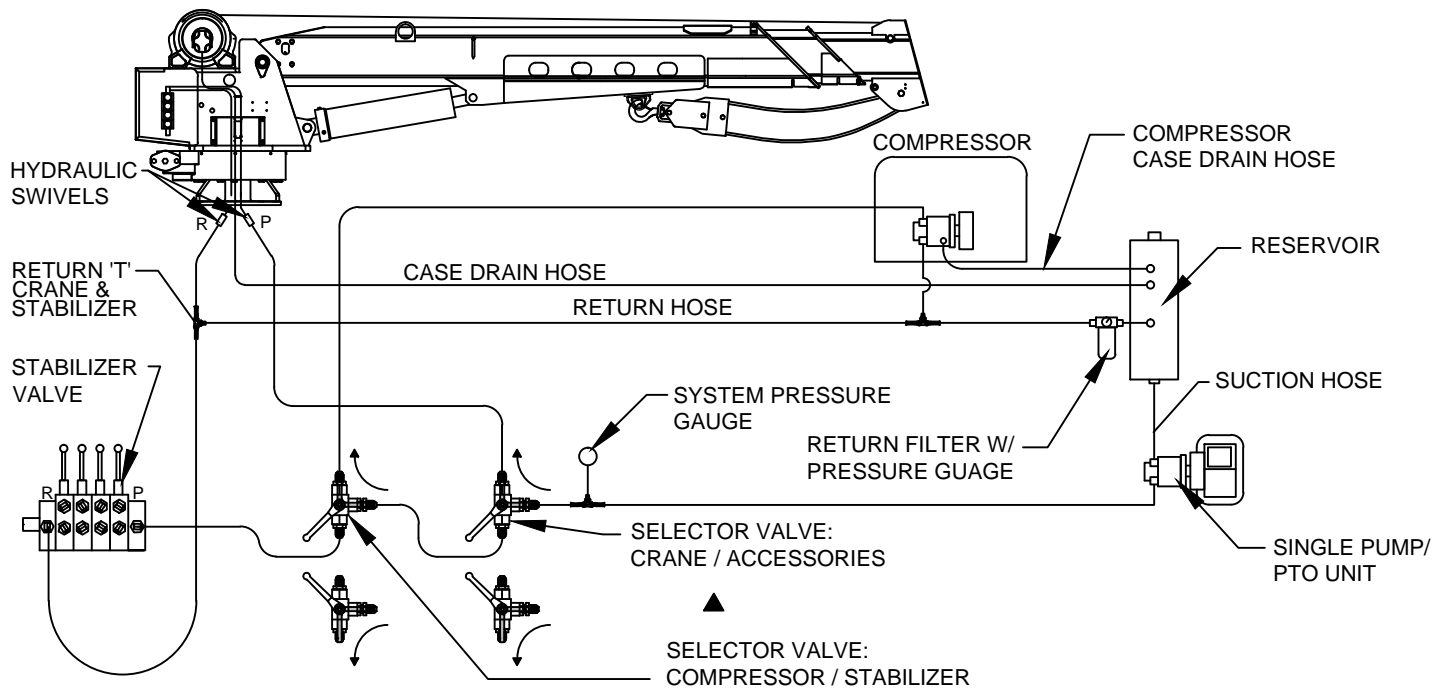
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SECTION

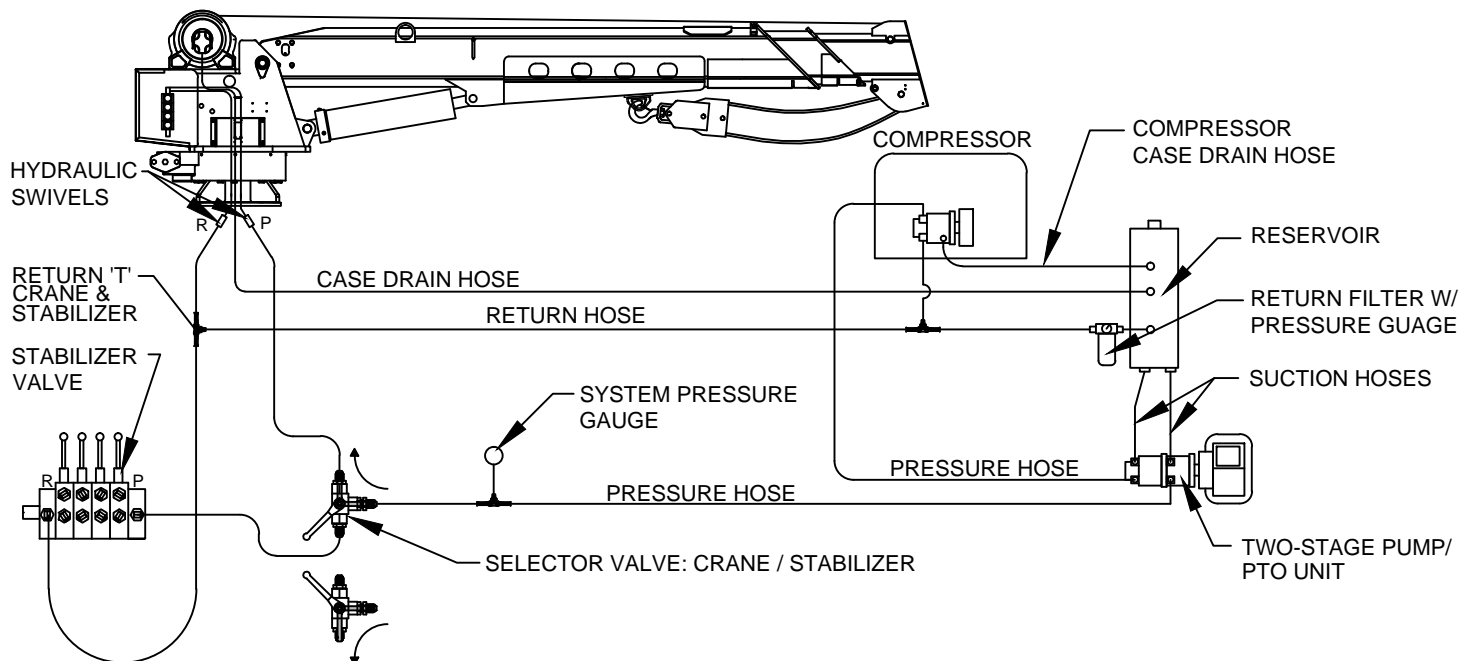
C200

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  
CNNCTN GDE, PAGE 2/2

HT CRANES

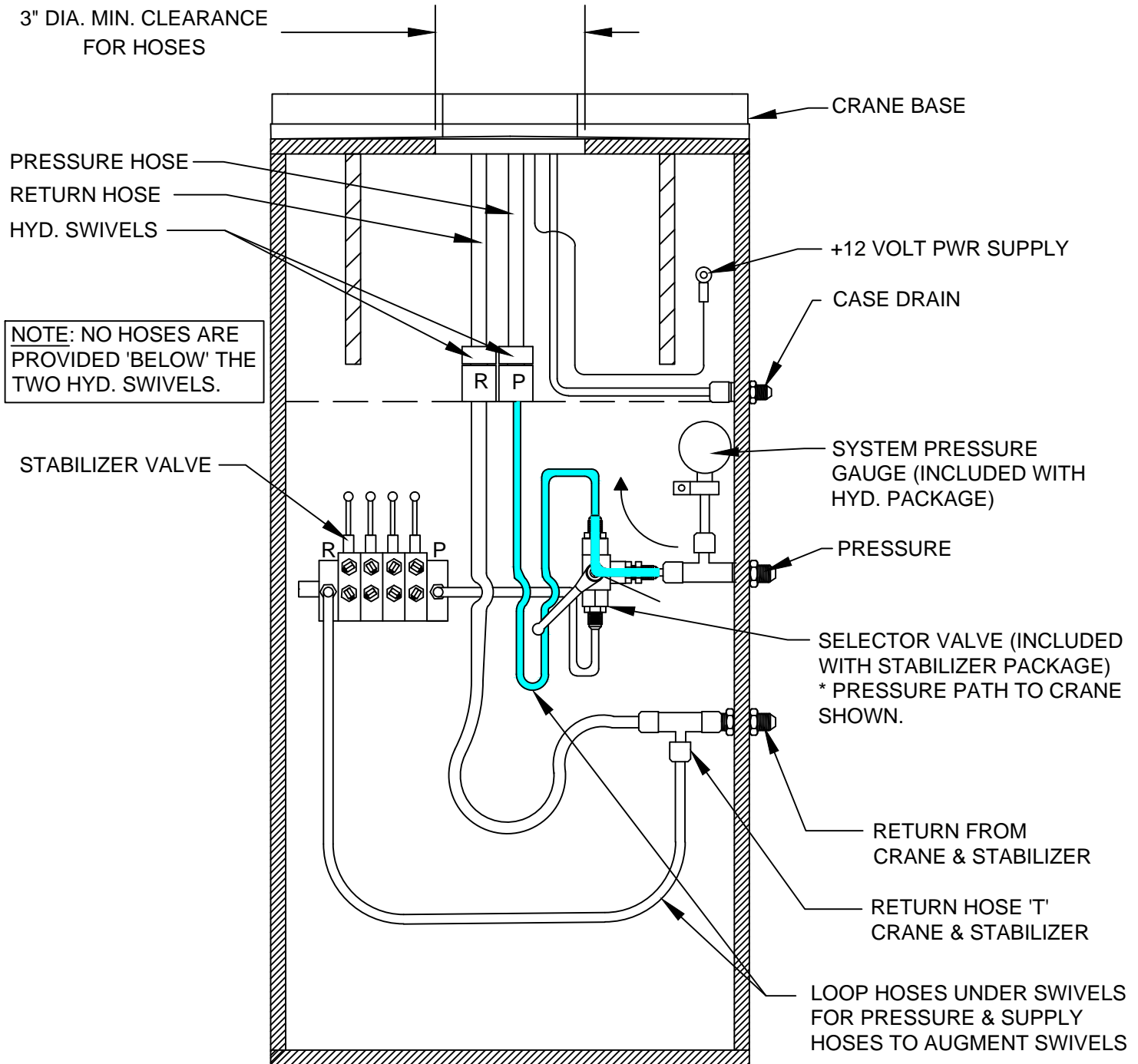
DATE  
08-08-23C

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

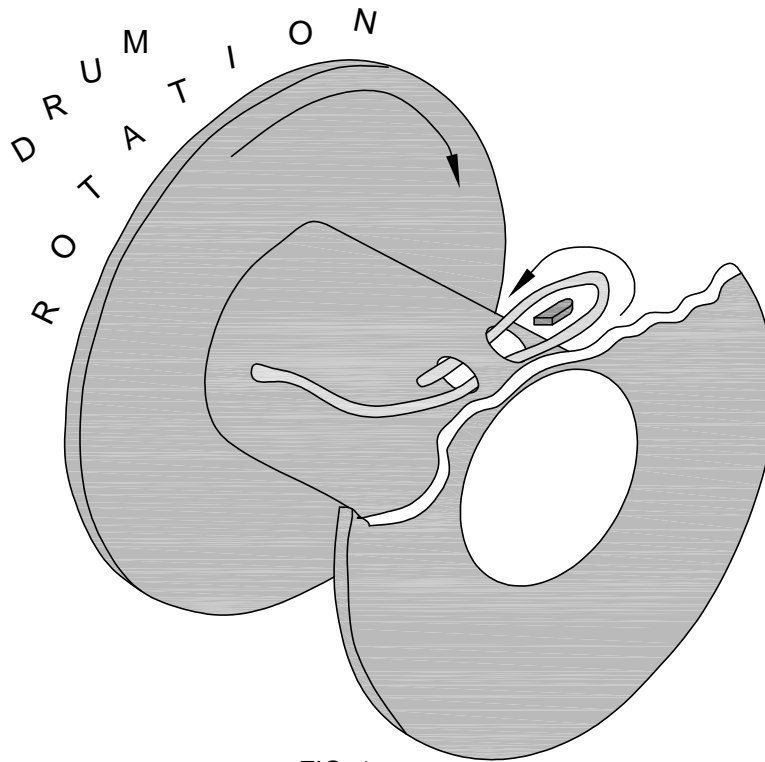


FIG. 1

- 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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

MAINTENANCE INFO

DATE

06-11-24E

SECTION

C300

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

SUPERSEDES

11-10-22D

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 - Varies the flow rate delivered to the crane valve. The farther the trigger is pulled, the faster the selected crane function operates.

## CRANE OPERATION (with VLC TRANSMITTER) <sup>▲</sup>

- Turn master crane power ON.
- Disengage the E-STOP.
- Actuate the HORN toggle switch.
- Select the crane function toggle switch to be actuated.
- Pull the proportional trigger to control the speed of the selected crane function.
- NOTE: For safety reasons, the crane function toggle switch must be selected *before* pulling the proportional trigger or the crane will not operate.

## VLC OVERLOAD SENSING SYSTEM

This crane is equipped with the Venturo Logic Control (VLC) 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.

## 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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

CRANE OP / MNTNC INST

DATE

06-12-25G

SECTION

C200

HT VLC SERIES

SUPERSEDES

06-26-24F

23754

## 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.
6. Turn OFF power to crane. ▲

## MAINTENANCE

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

The winch planetary gearbox lube should be maintained at the level plug.

To ensure optimal winch performance, the following lube schedule and lube specifications should be followed:

Initial Change - after 6 months or 100 hours of operation (whichever comes first).

Periodic Change - every 24 months or 300 hours of operation (whichever comes first).

HLP 46 or HLP 68 hydraulic oil

Service grease fittings and rotation gear with molybdenum-disulfide graphite-filled lithium-based extreme pressure grease.

Grease fitting locations:

Boom pivot at rear of boom

Slew drive (2 or 3 zerk fittings depending on component supplier)

Swing bearing race (2 zerk fittings)

Elevation cylinder base and rod pivots

Remove rear cover and check all hydraulic tube and hose fittings for tightness.

Check electrical connections for looseness and corrosion.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

CRANE OP / MNTNC INST

HT40/45/50

DATE

06-18-24B

SUPERSEDES

06-12-24A

SECTION

C200

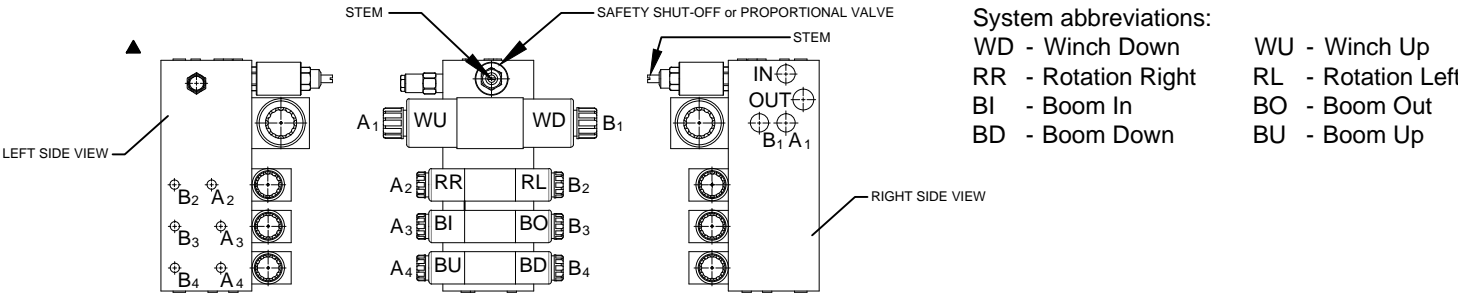
23755

# EXPLANATION OF HYDRAULIC VALVE SYSTEMS

## OVERVIEW

Venturo's hydraulic cranes are available in two [2] general configurations: Proportional and Non-Proportional. The **Non-Proportional** configuration utilizes a safety shut-off valve which, when **not** actuated, allows hydraulic fluid to bypass the valve bank and return to tank; the crane will not function when the safety shut-off valve is not actuated. When the safety shut-off valve is actuated (control pendant energizes the coil or the coil is manually overridden), hydraulic fluid cycles through the valve bank and allows the crane to function. The **Proportional** configuration utilizes a proportional valve which, in its fully closed and fully opened positions, functions similarly to the safety shut-off valve, but adds the ability to operate the crane at any speed in between these two extremes.

In both the Non-Proportional and Proportional configurations, the four [4] crane functions (winch, rotation, boom elevation, and boom extension) 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 the associated manual override lie on the same side of the valve bank (both 'push').





## 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:

- Override the safety shut-off or proportional valve by turning the red stem on the valve as stated below:  
Non-Proportional system  
For override operation, press stem in and rotate counter-clockwise until it stops.  
To return to normal operation, press stem in and rotate clockwise until it stops.  
Proportional system  
For override operation, rotate stem clockwise (the farther the stem turns, the faster the crane operates).  
To return to normal operation, rotate stem counter-clockwise until it stops.
- 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 press firmly. For example, pushing the stem labeled 'A1' on the first bank (see illustration above) will actuate Winch Up.

**W A R N I N G**

- For normal crane operation, the safety shut-off or proportional valve **MUST** be in the 'normal' position (as described above). Test the crane before each use by placing the power toggle switch or trigger in the 'OFF' position and testing each crane function *using the manual overrides*. If any crane function operates, verify that the red stem on the safety shut-off or proportional valve is in the normal position, then retest.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

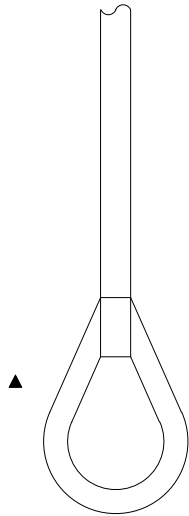
TITLE	DATE	SECTION
HYDRAULIC SYSTEM	05-01-25A	C200
HT SERIES CRANES	SUPERSEDES	
	04-23-24	26934

## WIRE ROPE ASSEMBLY

### WIRE ROPE:

3/8" DIA, 100' OR 125' LONG

GAC 7X19 XIP-RHRL-IWRC, SB 14,400 LBS



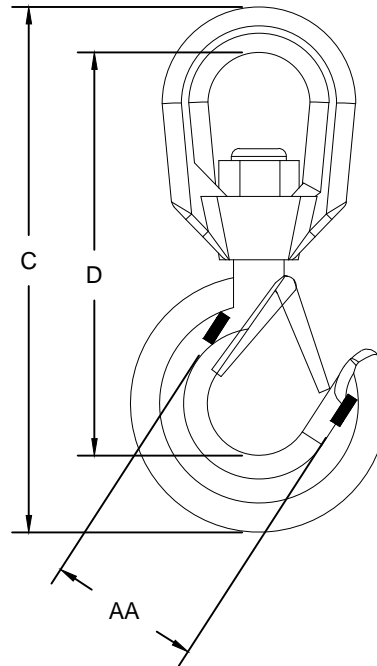
TERMINATES IN THIMBLE

NO HOOK

## LOAD BLOCK ASSEMBLY

### SINGLE LINE

### TWO-PART LINE

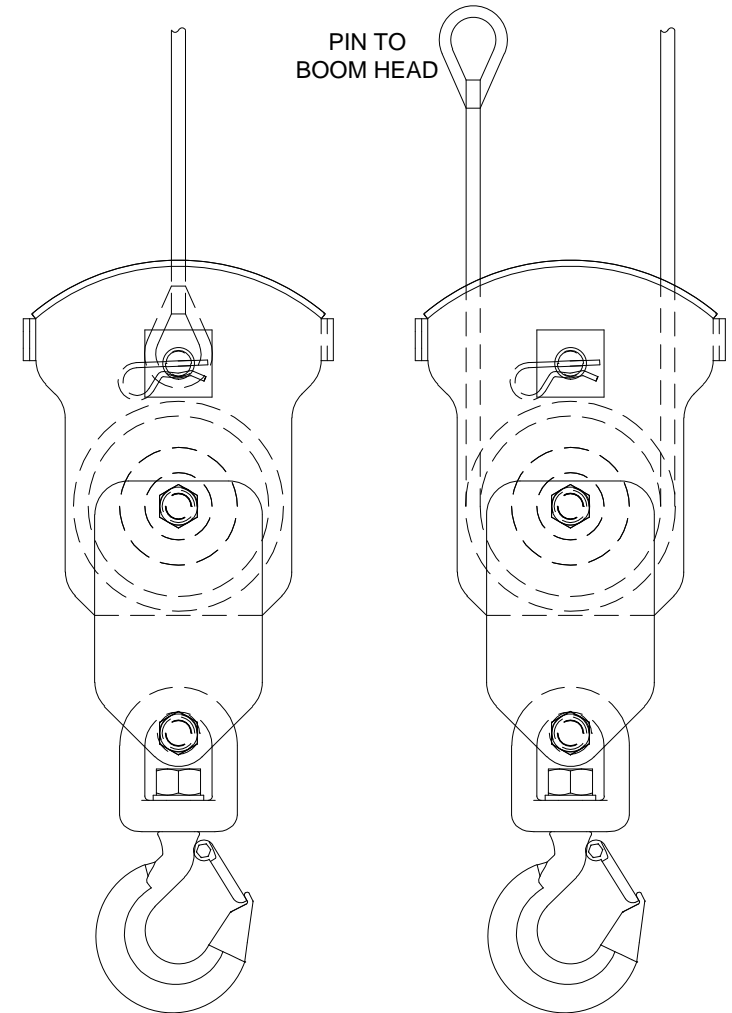


### LOAD BLOCK SWIVEL HOOK:

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, & LOAD BLOCK INFORMATION

HT40/45/50KX

### DATE

05-12-25F

### SUPERSEDES

08-15-24E

### SECTION

C300

23231

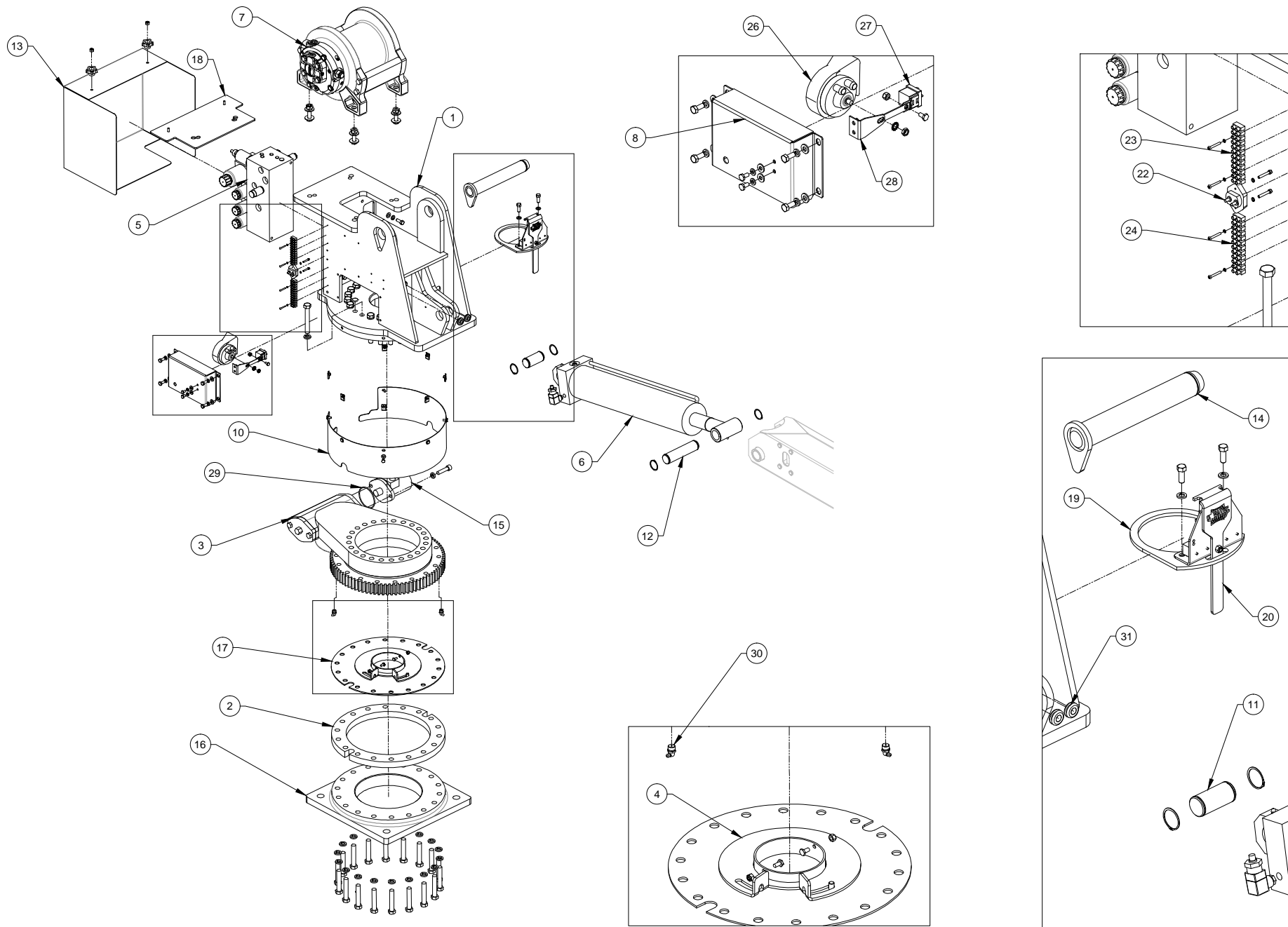


# **SECTION 400**

## **REPLACEMENT PARTS**



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO



REFERENCE 26944 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DRWG - MECHANISM

HT40/45/50

DATE

06-17-24A

SUPERSEDES

06-11-24

SECTION

C400

26943

# REPLACEMENT PARTS LIST - MECHANISM

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	26583	WELDED ASSEMBLY; HOUSING, MECHANISM
2	1	23662	SPACER PLATE
3	1	22704	SLEWING RING
4	1	23666	STOP DISK
5	1	22501-0-225-225	HYDRAULIC VALVE MANIFOLD (HT40 NON-PROP)
		22736H-3	HYDRAULIC VALVE MANIFOLD (HT40 PROP, HT45, HT50)
6	1	21747	5" OD (4.5" BORE) ELEVATION CYLINDER (HT40 & HT45)
		21748	5.5" OD (5.0" BORE) ELEVATION CYLINDER (HT50)
7	1	22828	HYDRAULIC WINCH (HT40 NON-PROP)
		22829	HYDRAULIC WINCH (HT40 PROP & HT45)
		22830	HYDRAULIC WINCH (HT50)
8	2	22715-1	HOUSING SIDE COVER
9	-	-	-
10	1	23644	SLEWING RING COVER
11	1	22256	ELEVATION CYLINDER PIN - INBOARD
12	1	22257	ELEVATION CYLINDER PIN - OUTBOARD
13	1	22842	REAR COVER
14	1	22721	PIVOT PIN - MAIN BOOM PIVOT
15	1	27276	HYDRAULIC ROTATION MOTOR
16	1	26606	MACHINED BASE
17	1	23626	SLIPPER PLATE WELD
18	1	28319	REAR COVER MOUNTING PLATE WELDMENT
19	1	23680	HOUSING WATER DAM
20	1	28474	ELECTRIC ROTATION STOP ASSEMBLY

ITEM	QTY	PART NUMBER	DESCRIPTION
21	-	-	-
22	1	15683-20A	CIRCUIT BREAKER; 20A
23	1	19187-12	TERMINAL STRIP (HT45 VLC ONLY)
24	1	19187-12	TERMINAL STRIP
25	-	-	-
26	1	21948	HORN
27	1	22739	HIGH CAPACITY RELAY
28	1	22000	BRACKET; HORN
29	1	OR-152-5	O-RING; ROTATION MOTOR
30	2	!ZERK-013-27 NPT-90	FITTING; GREASE, 90°
31	2	26586	GROMMET - RUBBER
32	-	-	-
33	-	-	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	-	-
40	-	-	-

REFERENCE 26943 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST - MECHANISM

HT45 (VLC) ▲

DATE

07-10-25F

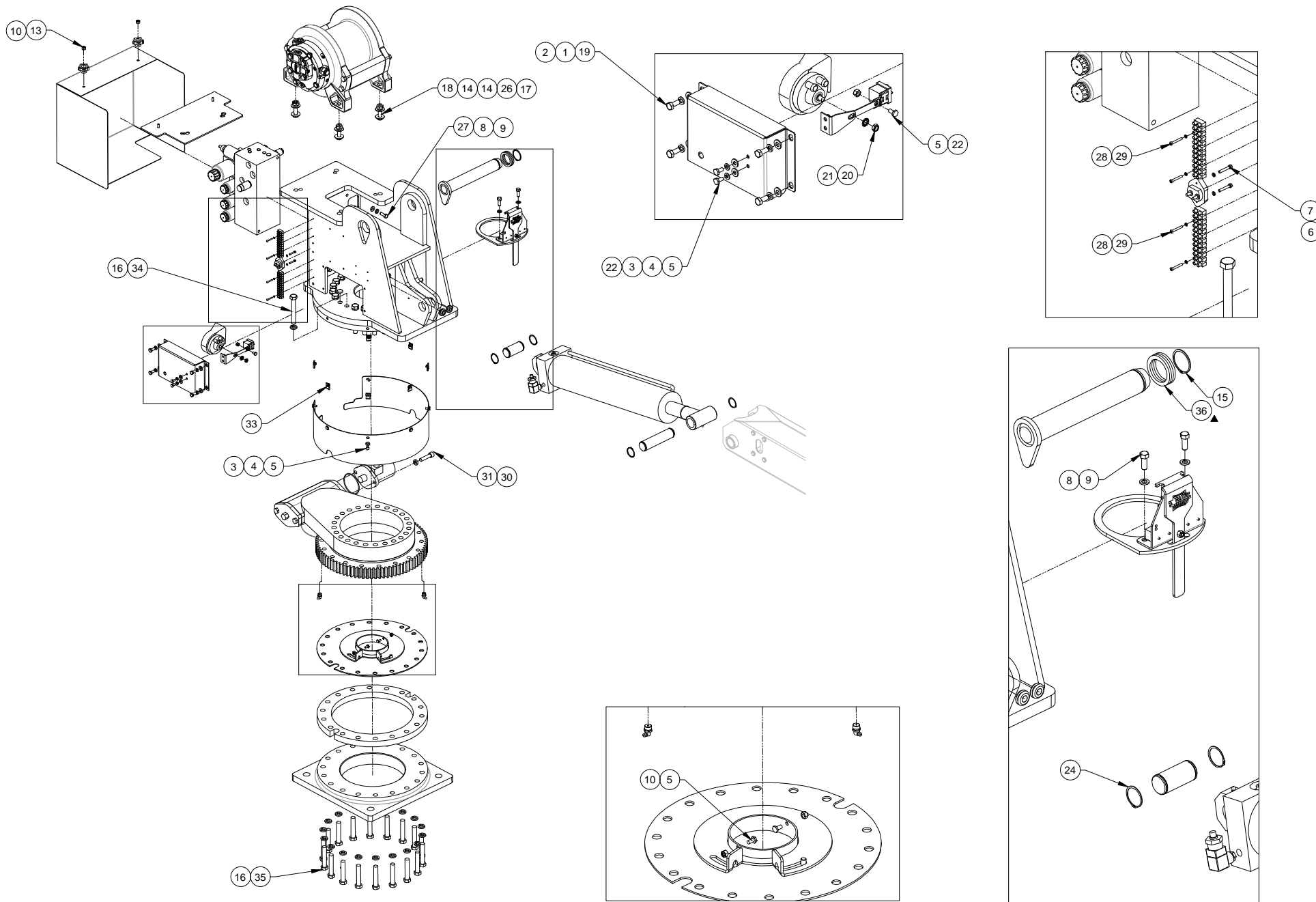
SUPERSEDES

05-07-25E

SECTION

C400

26944



REFERENCE 26946 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

RPLCMNT FASTENERS DRWNG - MECHANISM

HT40/45/50

DATE

06-17-24A

SUPERSEDES

06-11-24

SECTION

C400

26945

# REPLACEMENT PARTS LIST - HT45KX VLC SERIES; MECHANISM

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	8	!LW SH-031S	LOCK W ASHER; 5/16", S/S
2	8	!FW SH-031S	FLAT W ASHER; 5/16", S/S
3	7	!FW SH-025S	FLAT W ASHER; 1/4", S/S
4	7	!LW SH-025S	LOCK W ASHER; 1/4", S/S
5	2	!HHCS02520050S	HHCS; 1/4-20 x 1/2" LG, S/S
6	2	!LW SH-#08S	LOCK W ASHER; #8, S/S
7	2	!SHCS#832100SS	SHCS; #8-32 X 1", S/S
8	4	!LW SH-038	LOCK W ASHER; 3/8", ZINC-PLTD
9	4	!HHCS03816100	HHCS; 3/8-16 X 1", ZINC-PLTD
10	2	28327	KNOB, HAND, 5-POINT
11	-	-	-
12	-	-	-
13	2	!LNUT-02520-H	LOCK NUT; 1/4-20, HVY PAT, NYLON
14	8	!FW SH-050	FLAT W ASHER; 1/2", GR. 8
15	1	!SRNG-175	SNAP RING; 1-3/4", ZINC-PLTD
16	40	!LW SH-063	LOCK W ASHER; 5/8", GR. 5, ZINC
17	4	!HNUT-05013-8	HEX NUT; 1/2-13, GR. 8
18	4	!HHCS05013225-8	HHCS; 1/2-13 X 2-1/2" LG, GR 8, ZINC
19	8	!HHCS03118075S	HHCS; 5/16-18 X 3/4", S/S
20	1	!LW SH-031-STAR	LOCK W ASHER; 5/16", ZINC

ITEM	QTY.	PART NUMBER	DESCRIPTION
21	1	!HNUT-03118	HEX NUT; 5/16-18, ZINC
22	3	!LNUT-02520SS	NYLOCK HEX NUT 1/4-20
23	-	-	-
24	4	!SRNG-150	SNAP RING; 1-1/2", ZINC-PLTD
25	-	-	-
26	4	!LW SH-050	LOCK W ASHER; 1/2", GR. 8, ZINC
27	2	!FW SH-038	FLAT W ASHER; 3/8", ZINC-PLTD
28	2	!LW SH-#06S	LOCK W ASHER; #06, S/S
29	2	!PHPMS#0632100S	PHILIPS-HD PMS; #6-32 X 1", S/S
30	2	!LW SH-050-HC	LOCK W ASHER; 1/2", HI-COLLAR
31	2	!SHCS05013200	SOCKET HEAD CAP SCREW - 1/2-13 X 2 LG
32	-	-	-
33	7	!UNUT-02520-LKG	U-NUT 1/4-20, LOCKING TYPE
34	23	!HHCS06311450	HHCS; 5/8-11 x 4.5" LG, GR. 5, ZINC
35	18	!HHCS06311350	HHCS; 5/8-11 x 3.5" LG, GR. 8, ZINC
36	2	26609	SHIM - STAINLESS STEEL
37	-		
38	-		
39	-		
40	-		

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

REFERENCE 26945 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

RPLCMNT FASTENERS LIST - MECHANISM

HT45 (VLC) ▲

DATE

07-10-25C

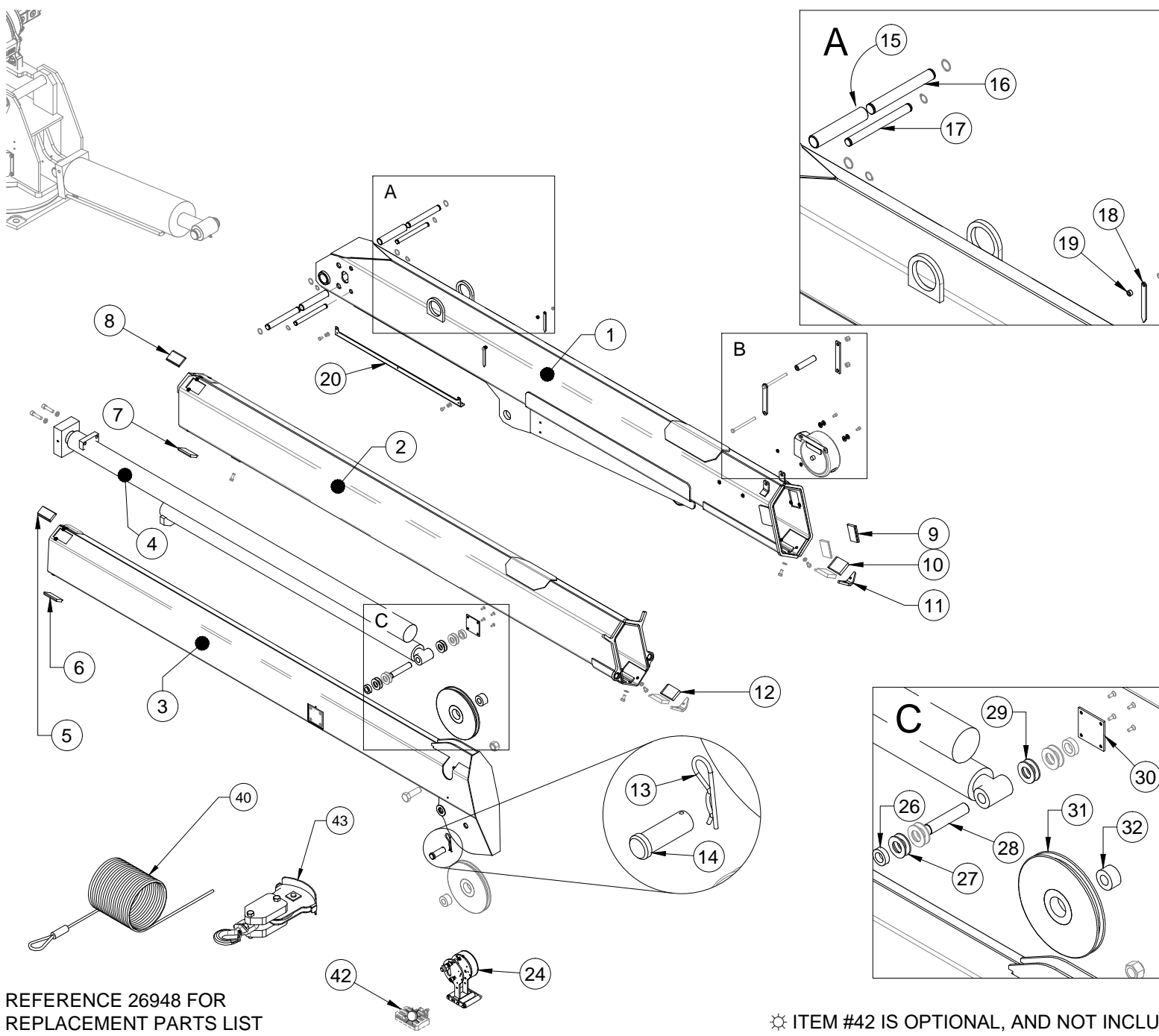
SUPERSEDES

05-07-25B

SECTION

C400

26946



REFERENCE 26948 FOR  
REPLACEMENT PARTS LIST

☼ ITEM #42 IS OPTIONAL, AND NOT INCLUDED WITH STANDARD EQUIPMENT



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE	RPLCMNT PARTS DRAWING - 26595 BOOM
HT40/45/50 - 20'	

DATE	06-11-24	SECTION	C400
SUPERSEDES	-		26947

# 26595 BOOM - REPLACEMENT PARTS LIST - HT40/45/50 - 20'

ITEM	PART NO.	QTY	DESCRIPTION
1	26596	1	WELDED ASS'Y; PRIMARY BOOM
2	27209	1	WELDED ASS'Y; SECONDARY BOOM
3	21416	1	WELDED ASS'Y; TERTIARY BOOM
4	21744	1	EXTENSION CYLINDER
5	23217-1	2	BOOM PAD; UHMW, 'A', 3.19 x 1.88 x 0.44
6	23217-1	2	BOOM PAD; UHMW, 'A', 3.19 x 1.88 x 0.44
7	23217-2	2	BOOM PAD; UHMW, 'A', 3.19 x 2.13 x 0.44
8	23217-2	2	BOOM PAD; UHMW, 'A', 3.19 x 2.13 x 0.44
9	23217-13	2	BOOM PAD; UHMW, 'A', 3.19 x 2.13 x 0.38
10	23217-17	2	BOOM PAD; UHMW, 'B', 3.19 x 2.50 x 0.50
11	23183	2	V-BLOCK, SLIDER
12	23217-14	2	BOOM PAD; UHMW, 'B', 3.19 x 2.13 x 0.50
13	21-08	1	PIN; HAIRPIN COTTER
14	27272	1	CLEVIS PIN
15	24535	2	THRUST ROLLER; EXTENSION CYLINDER
16	22255	2	THRUST PIN; REAR, EXTENSION CYLINDER
17	22255	2	THRUST PIN; FRONT, EXTENSION CYLINDER
18	13459-2	2	ARROW
19	22490	2	SPACER; BOOM ARROW
20	26940	1	CABLE GUARD BRACKET
21	21560	1	ROLLER; UHMW, WIRE ROPE GUIDE

ITEM	PART NO.	QTY	DESCRIPTION
22	21936	2	FLAT, MOUNT; WIRE ROPE GUIDE
23	26577-1-20	1	COMPLETE CORD REEL
24	27469-L-C-11	1	ANTI-TWO-BLOCK ASSEMBLY
25	-	-	-
26	21428	2	BUSHING; EXTENSION CYLINDER
27	12534-8	2	BUSHING; MACHINE, 1" ID, 1-1/2" OD, 14G, ZINC
28	21405	1	PIN; CYLINDER
29	12534-2	2	BUSHING; MACHINE, 1" ID, 1-1/2" OD, 10G, ZINC
30	23116	2	PIN BLOCK REINFORCING
31	23928	2	CABLE SHEAVE
32	23929	2	SPACER; SHEAVE
33	-	-	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	-	-
40	17094-3/8-100	1	WIRE ROPE; 100 FT, NO HOOK
41	-	-	-
☀42	27483	1	ASS'Y; WORK LIGHT, LED
43	17949-1	1	LOAD BLOCK ASSEMBLY (HT40)
	17949-4	1	LOAD BLOCK ASSEMBLY (HT45)
	17949	1	LOAD BLOCK ASSEMBLY (HT50)

REFERENCE 26947 FOR REPLACEMENT PARTS DRAWING

☀ OPTIONAL; NOT INCLUDED WITH STANDARD EQUIPMENT



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST - 26595 BOOM

HT40/45/50 - 20'

DATE

06-11-24

SUPERSEDES

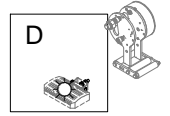
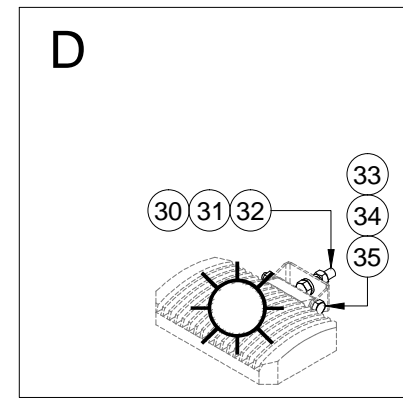
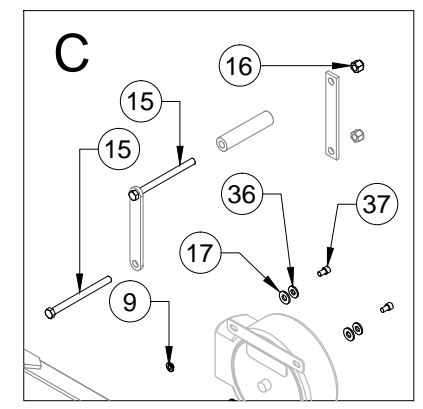
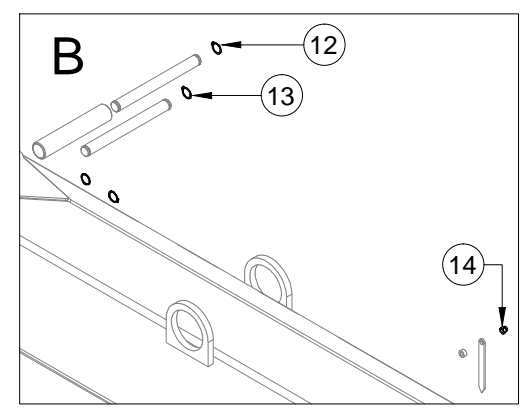
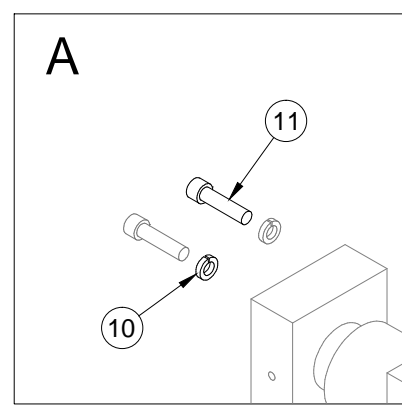
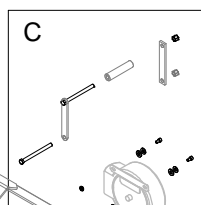
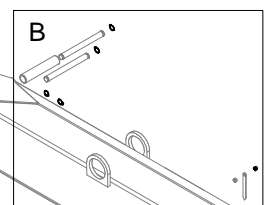
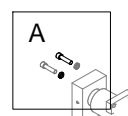
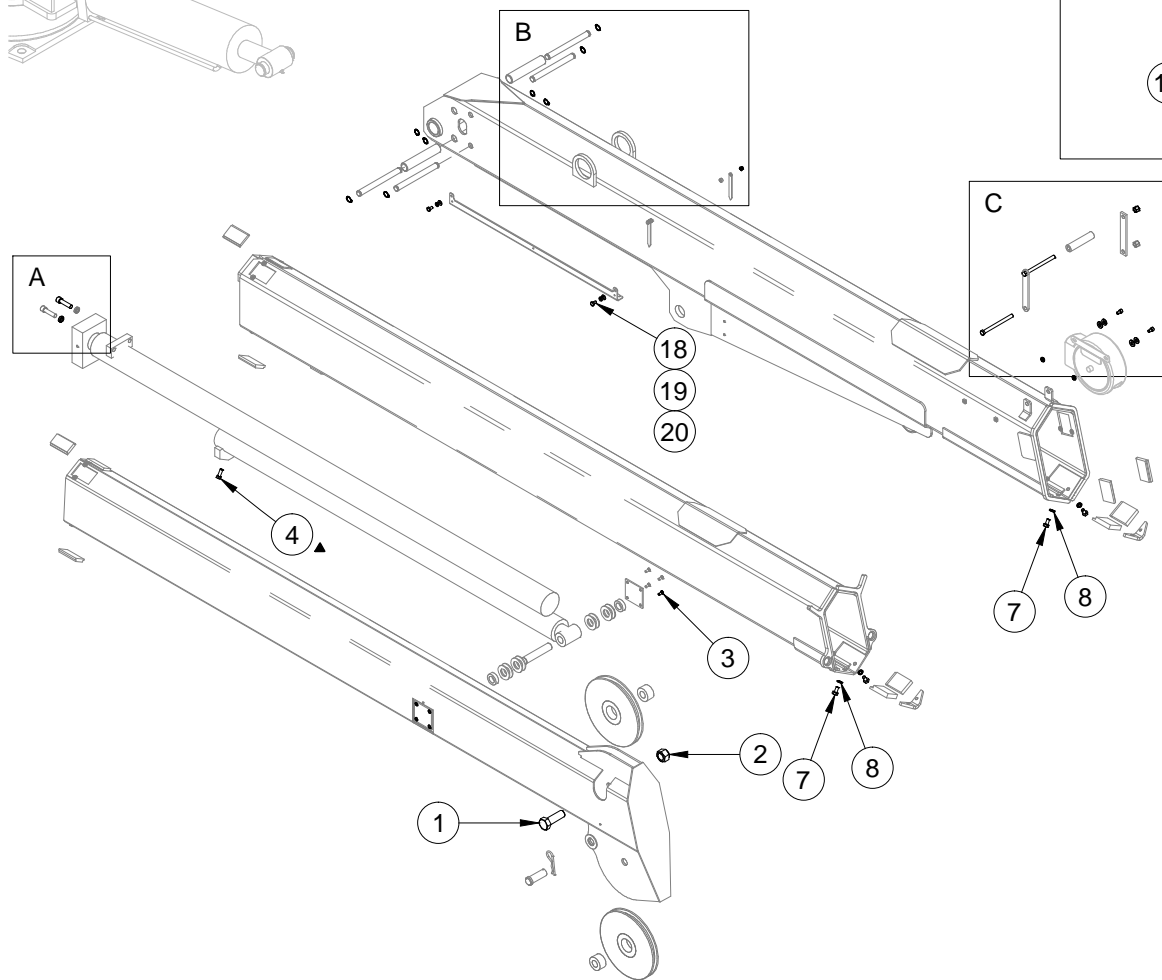
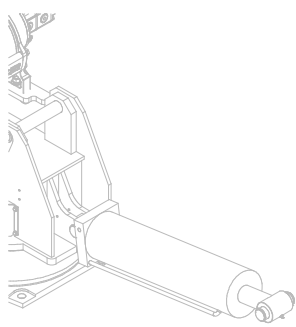
-

SECTION

C400

26948





REFERENCE 26950 FOR  
REPLACEMENT PARTS LIST

⚙️ ITEMS #30-35 ARE FASTENERS FOR OPTIONAL COMPONENTS - NOT INCLUDED WITH STANDARD EQUIPMENT



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE REPL FASTENERS DRAWING - 26595 BOOM  HT40/45/50 - 20'	DATE 11-18-24A	SECTION C400
	SUPERSEDES 06-11-24	26949



ITEM #	PART #	QTY	DESCRIPTION	WHERE-USED
1	17059-6	1	SHEAVE AXLE; HHCS 3/4-10 X 2" LG.	TOP SHEAVE
2	!JNUT-07510N	1	JAM NUT; 3/4-10, GR. 5	TOP SHEAVE
3	!CACS02520050S	8	CACS; 1/4-20 X 1/2", S/S	PIN BLCK REINFORCING
4	!HHCS03816100N	2	HHCS; NYLON PATCH 3/8-16 X 1", GR. 5 ZINC	EXT. CYL. V-BLOCK
5	-	-	-	-
6	-	-	-	-
7	!HHCS03816075S	4	HHCS; 3/8-16 X 3/4", S/S	V-BLOCKS
8	!LWSH-038	4	LOCK WASHER; 3/8", GR. 5, ZINC-PL	V-BLOCKS
9	28198	2	INSULATING SLEEVE WASHER - 5/16"	CORD REEL ASS'Y
10	!LWSH-050-HC	2	LOCK WASHER; 1/2", HI-COLLAR	EXTENSION CYLINDER
11	!SHCS05013200	2	SHCS; 1/2-13 X 2"	EXTENSION CYLINDER
12	!SRNG-075	4	SNAP RING; 3/4"	EXT. CYL. REAR PINS
13	!SRNG-075	4	SNAP RING; 3/4"	EXT. CYL. FRONT PINS
14	!ANUT-02520S	2	ACORN NUT; 1/4-20, S/S	BOOM ARROWS
15	!HHCS04414550	2	HHCS; 7/16-14 X 5-1/2", GR. 5, ZINC	WIRE ROPE GUIDE
16	!LNUT-04414	2	LOCK NUT; 7/16-14, GR. 5, ZINC	WIRE ROPE GUIDE
17	01016	2	FIBER WASHER	CORD REEL ASS'Y
18	!HHCS03118050S	2	HHCS; 5/16-11 X 1/2", S/S	CABLE GUARD BRACKET
19	!LWSH-031S	2	LOCK WASHER; 5/16", S/S	CABLE GUARD BRACKET
20	!FWSH-031S	2	FLAT WASHER; 5/16", S/S	CABLE GUARD BRACKET

ITEM #	PART #	QTY	DESCRIPTION	WHERE-USED
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
☼ 30	!HHCS03118125S	1	HHCS; 5/16-18 X 1-1/4", S/S	WORK LIGHT
☼ 31	!HNUT-03118S	2	HEX NUT; 5/16-18, S/S	WORK LIGHT
☼ 32	!FWSH-031S	1	FLAT WASHER; 5/16", S/S	WORK LIGHT
☼ 33	!HHCS02520250S	1	HHCS; 1/4-20 X 2-1/2", S/S	WORK LIGHT
☼ 34	!LWSH-025S	1	LOCK WASHER; 1/4", S/S	WORK LIGHT
☼ 35	!HNUT-02520S	1	HEX NUT; 1/4-20, S/S	WORK LIGHT
36	!FWSH-031	2	FLAT WASHER; 5/16"	CORD REEL ASS'Y
37	!SHCS03118063S	2	SHCS; 5/16-18 X 5/8" LG, S/S	CORD REEL ASS'Y
38	-	-	-	-
39	-	-	-	-
40	-	-	-	-

☼ ITEMS #30-35 ARE FOR OPTIONAL COMPONENTS - NOT INCLUDED WITH STANDARD EQUIPMENT

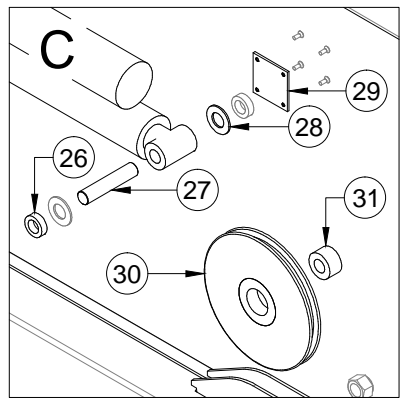
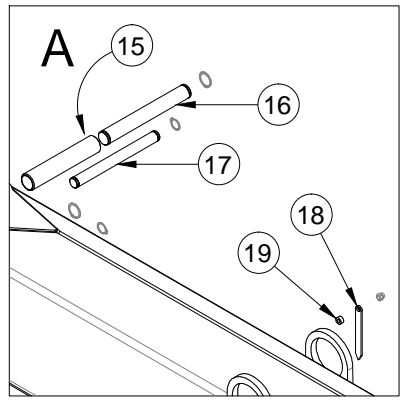
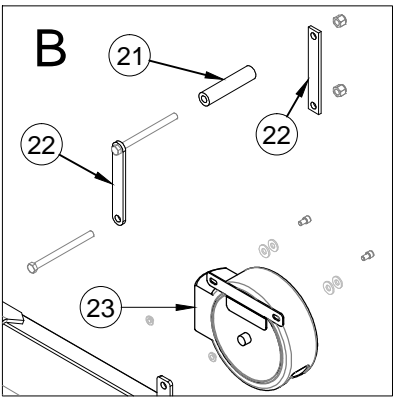
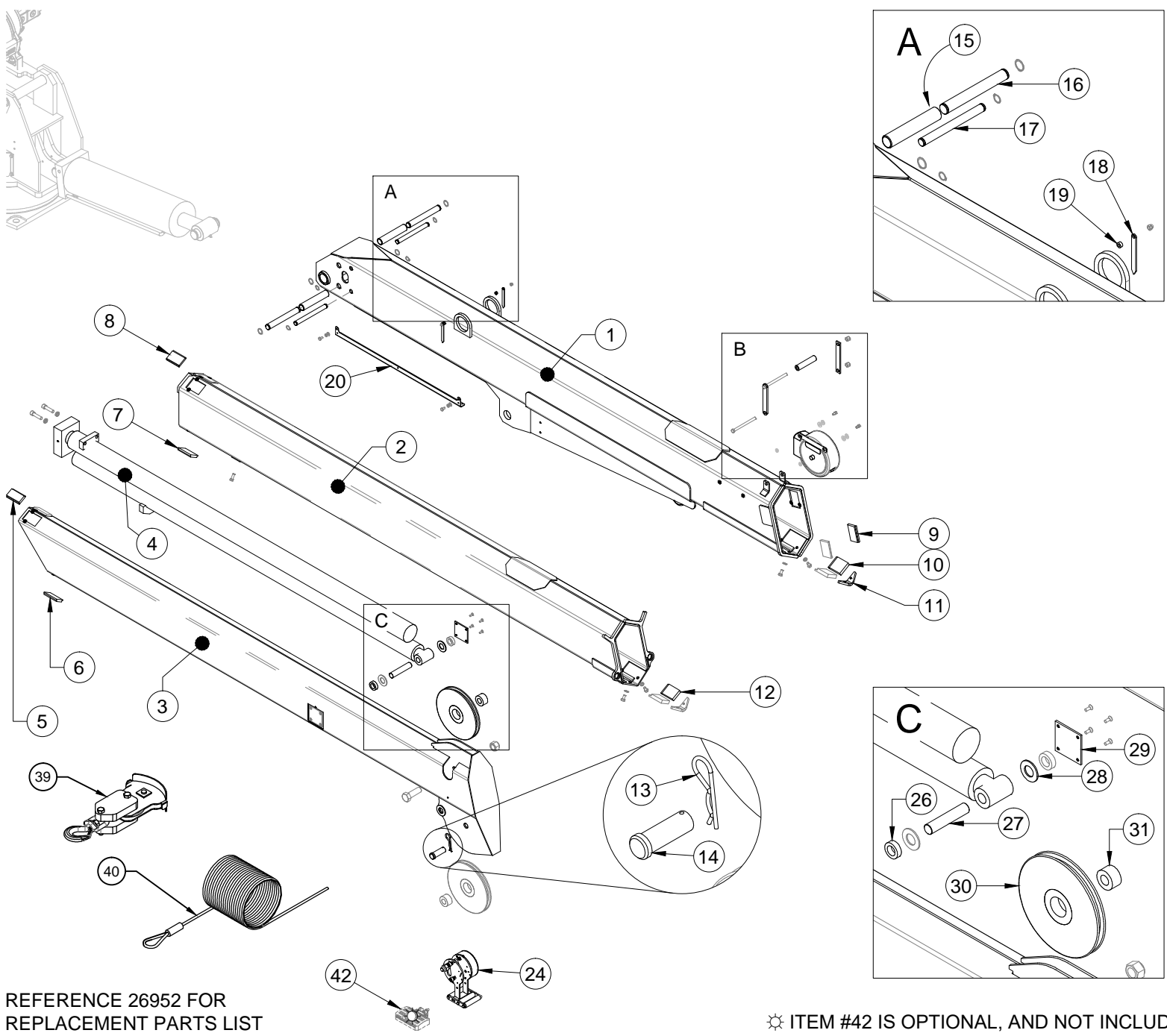
REFERENCE 26949 FOR REPLACEMENT FASTENERS DRAWING

SH = SOCKET HEAD    HH = HEX HEAD    THCS = TRUSS HEAD PHILLIPS SCREW  
CACS = COUNTERSUNK ALLEN HEAD CAP SCREW    PMS = PAN MACHINE SCREW  
S/S = STAINLESS STEEL



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE	DATE	SECTION
REPLCMNT FASTENERS LIST - 26595 BOOM	11-18-24A	C400
HT40/45/50/60 - 20'	SUPERSEDES 06-11-24	26950



REFERENCE 26952 FOR  
REPLACEMENT PARTS LIST

☼ ITEM #42 IS OPTIONAL, AND NOT INCLUDED WITH STANDARD EQUIPMENT



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE	RPLCMNT PARTS DRAWING - 26593 BOOM
HT40/45/50/60 - 25'	

DATE	08-28-24A	SECTION	C400
SUPERSEDES	06-11-24		26951

# REPLACEMENT PARTS LIST - 26593 BOOM

ITEM	PART NO.	QTY	DESCRIPTION
1	26594	1	WELDED ASS'Y; PRIMARY BOOM
2	27175	1	WELDED ASS'Y; SECONDARY BOOM
3	23105	1	WELDED ASS'Y; TERTIARY BOOM
4	21749	1	EXTENSION CYLINDER
5	23217-1	2	BOOM PAD; UHMW, 'A', 3.19 x 1.88 x 0.50
6	23217-1	2	BOOM PAD; UHMW, 'A', 3.19 x 1.88 x 0.44
7	23217-2	2	BOOM PAD; UHMW, 'A', 3.19 x 2.13 x 0.44
8	23217-2	2	BOOM PAD; UHMW, 'A', 3.19 x 2.13 x 0.44
9	23217-13	2	BOOM PAD; UHMW, 'A', 3.19 x 2.13 x 0.38
10	23217-17	2	BOOM PAD; UHMW, 'B', 3.19 x 2.50 x 0.50
11	23183	2	V-BLOCK, SLIDER
12	23217-14	2	BOOM PAD; UHMW, 'B', 3.19 x 2.13 x 0.50
13	21-08	1	PIN; HAIRPIN COTTER
14	27272	1	CLEVIS PIN
15	24535	2	THRUST ROLLER; EXTENSION CYLINDER
16	22255	2	THRUST PIN; REAR, EXTENSION CYLINDER
17	22255	2	THRUST PIN; FRONT, EXTENSION CYLINDER
18	13459-2	2	ARROW
19	22490	2	SPACER; BOOM ARROW
20	26940	1	CABLE GUARD BRACKET
21	21560	1	ROLLER; UHMW, WIRE ROPE GUIDE

ITEM	PART NO.	QTY	DESCRIPTION
22	21936	2	FLAT, MOUNT; WIRE ROPE GUIDE
23	26577-1-25	1	CORD REEL ASSY (BLK STEEL CASE)
	26577-4	1	CORD REEL ASSY (BLK/YEL PLASTIC CASE)
24	27469-L-C-11	1	ANTI-TWO-BLOCK ASSEMBLY
25	-	-	-
26	21428	2	BUSHING; EXTENSION CYLINDER
27	21405	1	PIN; PIVOT, EXTENSION CYLINDER
28	!FWSH-100SAE	2	FLAT WASHER; 1" SAE
29	23116	2	PIN BLOCK REINFORCING
30	23928	2	CABLE SHEAVE
31	23929	2	SPACER; SHEAVE
32	27476-1	2	SPACER; COMPACT A2B
33	-	-	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	17949-1	1	LOAD BLOCK ASSEMBLY (HT40)
	17949-2	1	LOAD BLOCK ASSEMBLY (HT45)
	17949	1	LOAD BLOCK ASSEMBLY (HT50)
	17949-5	1	LOAD BLOCK ASSEMBLY (HT60)
40	17094-3/8-100	1	WIRE ROPE; 100 FT, NO HOOK (HT40/45/50/55)
	24916-3/8-100	1	WIRE ROPE; 100 FT, NO HOOK (HT60)
☼42	27483	1	ASS'Y; WORK LIGHT, LED

REFERENCE 26951 FOR REPLACEMENT PARTS DRAWING

☼ OPTIONAL; NOT INCLUDED WITH STANDARD EQUIPMENT



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST - 26593 BOOM

HT40/45/50/60 - 25'

DATE

11-25-24A

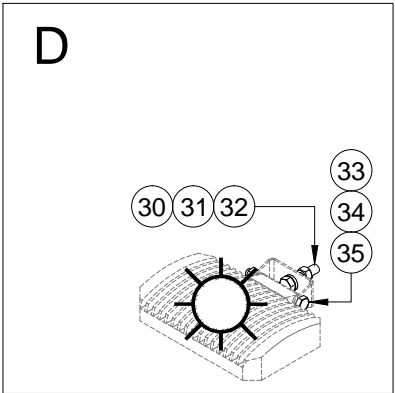
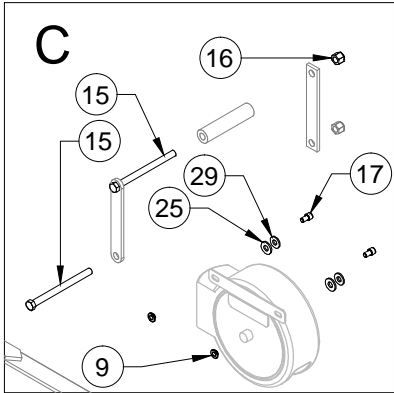
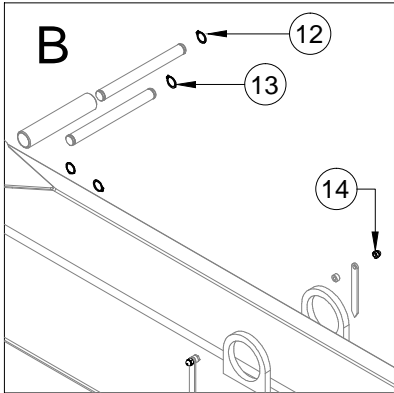
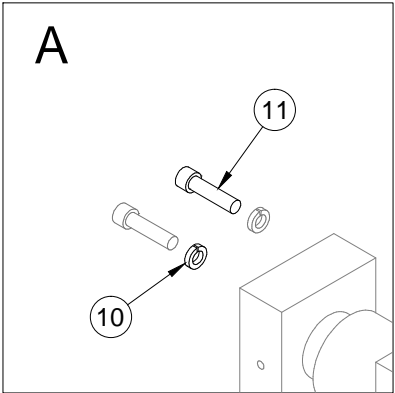
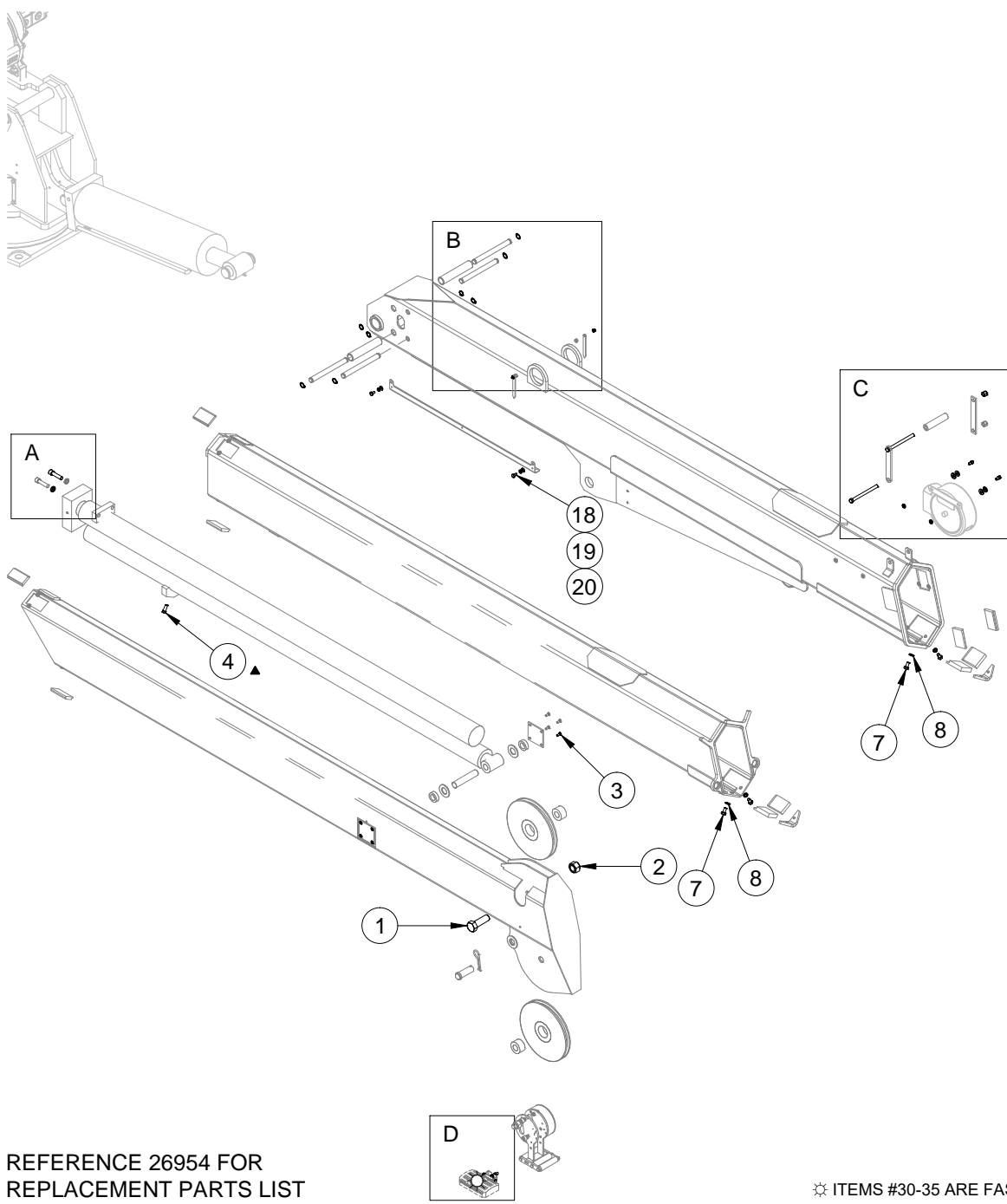
SUPERSEDES

06-11-24

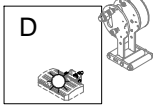
SECTION

C400

26952



REFERENCE 26954 FOR  
REPLACEMENT PARTS LIST



⚙️ ITEMS #30-35 ARE FASTENERS FOR OPTIONAL COMPONENTS - NOT INCLUDED WITH STANDARD EQUIPMENT



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE	RPLCMNT FASTENERS DRWNG - 26593 BOOM
HT40/45/50/60 - 25'	

DATE	11-18-24A	SECTION	C400
SUPERSEDES	06-11-24		26953

ITEM #	PART #	QTY	DESCRIPTION	WHERE-USED
1	17059-6	1	SHEAVE AXLE; HHCS, 3/4-10 X 2", S/S	TOP SHEAVE
2	!LNUT-07510	2	LOCK NUT, FULL, 3/4-10, GR. 5, ZINC	SHEAVES
3	!CACS02520050S	8	CACS; 1/4-20 X 1/2", S/S	PIN BLCK REINFORCING
4	!HHCS03816100N	2	HHCS; NYLON PATCH 3/8-16 X 1", GR. 5 ZINC	EXT. CYL. V-BLOCK
5	!HHCS02520100S	2	HHCS; 1/4-20 X 1", S/S	INCLINOMETER
6	!LNUT-02520NS	2	LOCK NUT; 1/4-20, NYLON, S/S	INCLINOMETER
7	!HHCS03816075S	4	HHCS; 3/8-16 X 3/4", S/S	V-BLOCKS
8	!LWSH-038	4	LOCK WASHER; 3/8", GR. 5, ZINC-PL	V-BLOCKS
▲ ⚠ 9	28198	2	INSULATING SLEEVE WASHER - 5/16"	CORD REEL
10	!LWSH-050-HC	2	LOCK WASHER; 1/2", HI-COLLAR	EXTENSION CYLINDER
11	!SHCS05013200	2	SHCS; 1/2-13 X 2"	EXTENSION CYLINDER
12	!SRNG-075	4	SNAP RING; 3/4"	EXT. CYL. REAR PINS
13	!SRNG-075	4	SNAP RING; 3/4"	EXT. CYL. FRONT PINS
14	!ANUT-02520S	2	ACORN NUT; 1/4-20, S/S	BOOM ARROWS
15	!HHCS04414550	2	HHCS; 7/16-14 X 5-1/2", GR. 5, ZINC	WIRE ROPE GUIDE
16	!LNUT-04414	2	LOCK NUT; 7/16-14, GR. 5, ZINC	WIRE ROPE GUIDE
17	!SHCS03118063S	2	SHCS; 5/16-18 X 5/8" LG, S/S	CORD REEL
18	!HHCS03118050S	2	HHCS; 5/16-11 X 1/2", S/S	CABLE GUARD BRACKET
19	!LWSH-031S	2	LOCK WASHER; 5/16", S/S	CABLE GUARD BRACKET
20	!FWSH-031S	2	FLAT WASHER; 5/16", S/S	CABLE GUARD BRACKET

ITEM #	PART #	QTY	DESCRIPTION	WHERE-USED
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
▲ ⚠ 25	01016	2	FIBER WASHER	CORD REEL
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	!FWSH-031	2	FLAT WASHER, 5/16"	CORD REEL
☀ 30	!HHCS03118125S	1	HHCS; 5/16-18 X 1-1/4", S/S	WORK LIGHT
☀ 31	!HNUT-03118S	2	HEX NUT; 5/16-18, S/S	WORK LIGHT
☀ 32	!FWSH-031S	1	FLAT WASHER; 5/16", S/S	WORK LIGHT
☀ 33	!HHCS02520250S	1	HHCS; 1/4-20 X 2-1/2", S/S	WORK LIGHT
☀ 34	!LWSH-025S	1	LOCK WASHER; 1/4", S/S	WORK LIGHT
☀ 35	!HNUT-02520S	1	HEX NUT; 1/4-20, S/S	WORK LIGHT
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-
39	-	-	-	-
40	-	-	-	-

☀ ITEMS #30-35 ARE FOR OPTIONAL COMPONENTS - NOT INCLUDED WITH STANDARD EQUIPMENT

▲ ⚠ FOR 26577-1.\*\* ONLY (NOT REQ'D FOR 26577-4)

REFERENCE 26953 FOR REPLACEMENT FASTENERS DRAWING

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



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

PLCMNT FASTENERS LIST - 26593 BOOM

DATE

11-25-24B

SECTION

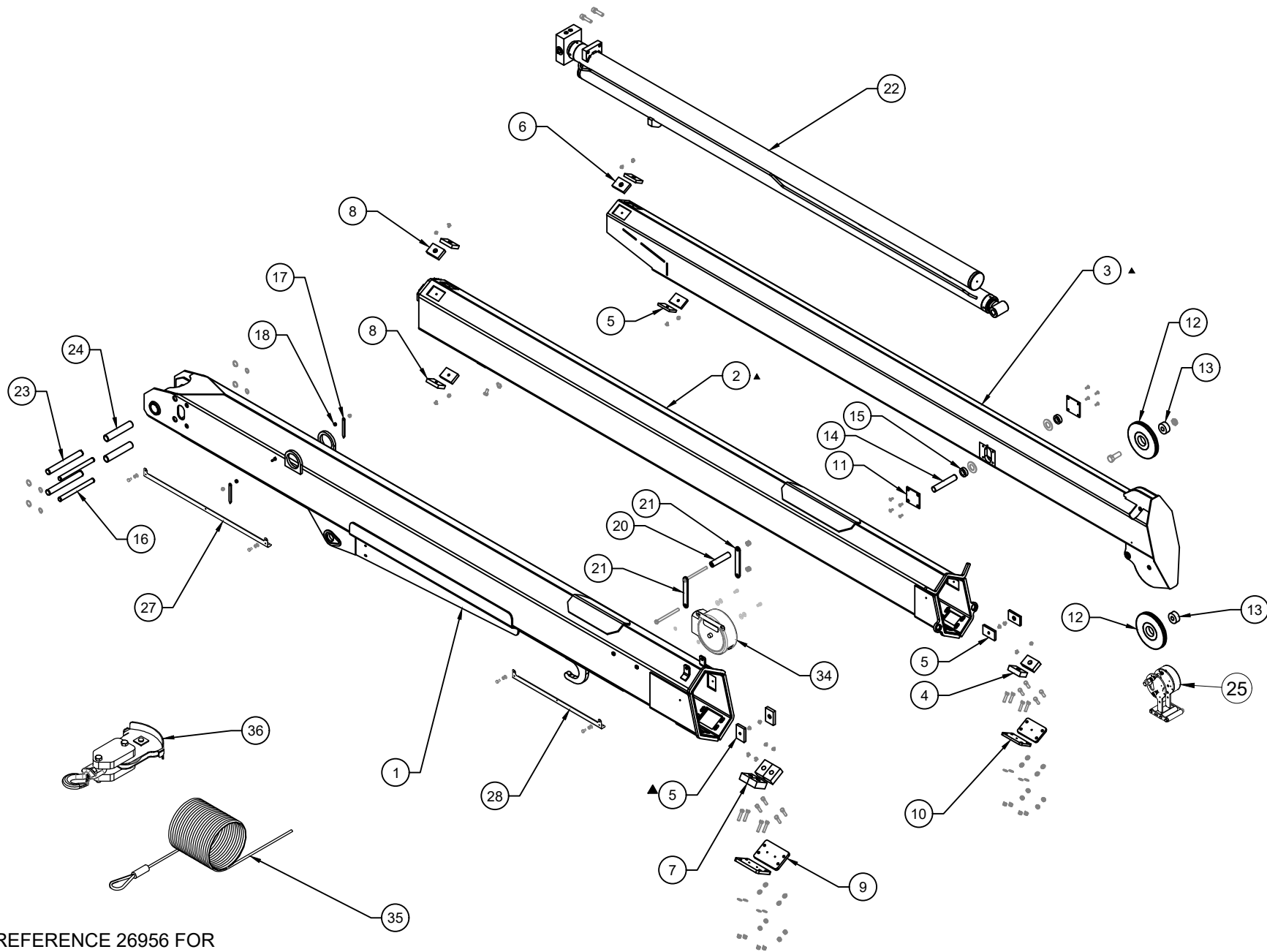
C400

HT40/45/50/60 - 25'

SUPERSEDES

11-18-24A

26954



REFERENCE 26956 FOR  
REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
REPL PARTS DWG, 30' BOOM, 26590  
HT45/60 - 30'

DATE  
06-11-24  
SUPERSEDES  
-

SECTION  
C400  
26955

# REPLACEMENT PART LIST, 30' BOOM 26590

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	26591	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	-	-	-
20	21560	1	WIRE ROPE GUIDE; UMHW ROLLER
21	21936	2	WIRE ROPE GUIDE; FLAT, MOUNT
22	23875	1	EXTENSION CYLINDER
23	23905	2	EXTENSION CYLINDER 1" THRUST PIN
24	27283	2	THRUST ROLLER
25	27469-L-C-11	1	ANTI-TWO-BLOCK ASSEMBLY
26	-	-	-
27	26940	1	CABLE GUARD BRACKET (LONG)
28	26940-2	1	CABLE GUARD BRACKET (SHORT)
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	-	-
▲ 34	26577-1-30	1	CORD REEL ASSY (BLK STEEL CASE)
	26577-4	1	CORD REEL ASSY (BLK/YEL PLASTIC CASE)
35	17094-3/8-125	1	WIRE ROPE; 125 FT, NO HOOK (HT45/50)
	24916-3/8-125	1	WIRE ROPE; 125 FT, HIGH STR (HT60)
36	17949-2	-	LOAD BLOCK ASSEMBLY (HT45)
	17949-5	-	LOAD BLOCK ASSEMBLY (HT60)

REFERENCE 26955 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPL PART LIST, BOOM 26590

DATE

11-25-24B

SECTION

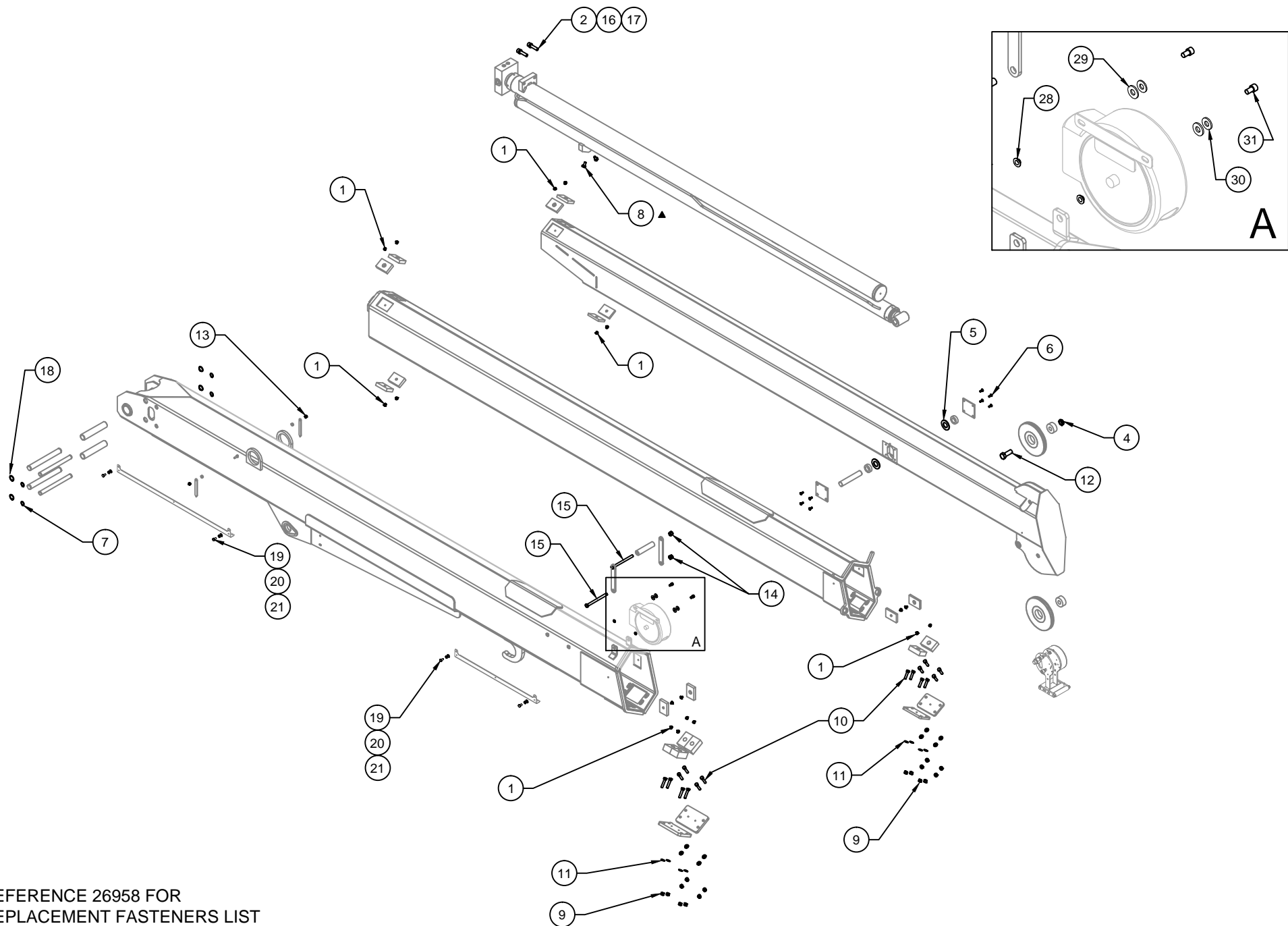
C400

HT45/50/60 - 30'

SUPERSEDES

08-15-24A

26956



REFERENCE 26958 FOR  
REPLACEMENT FASTENERS LIST



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE	REPL HARDWARE DWG, 30' BOOM 26590
HT45/60 - 30'	

DATE	11-18-24A	SECTION	C400
SUPERSEDES	06-11-24		26957



# REPLACEMENT FASTENERS LIST, 30' BOOM 26590

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	-	-	-
4	!LNUT-07510	1	LOCK NUT; 3/4-10, NYLON, ZINC
5	!FWSH-100SAE	2	FLAT WASHER; 1" SAE
6	!CACCS02520050S	8	CACS; 1/4-20 x 1/2" LG, S/S
7	!SRNG-075	4	SNAP RING; 3/4"
8	!HHCS03816100N	2	HHCS; NYLON PATCH 3/8-16 X 1", GR. 5 ZINC
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	!HHCS03118050S	4	HHCS; 5/16-18 X 1/2", S/S
20	!LWSH-031S	4	LOCK WASHER; 5/16", S/S
21	!FWSH-031S	4	FLAT WASHER; 5/16", S/S
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
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	-	-	-

△ FOR 26577-1-\*\* ONLY (NOT REQ'D FOR 26577-4)

REFERENCE 26957 FOR REPLACEMENT FASTENERS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPL FAST LIST, BOOM 26590

HT45/60 - 30'

DATE

11-25-24B

SUPERSEDES

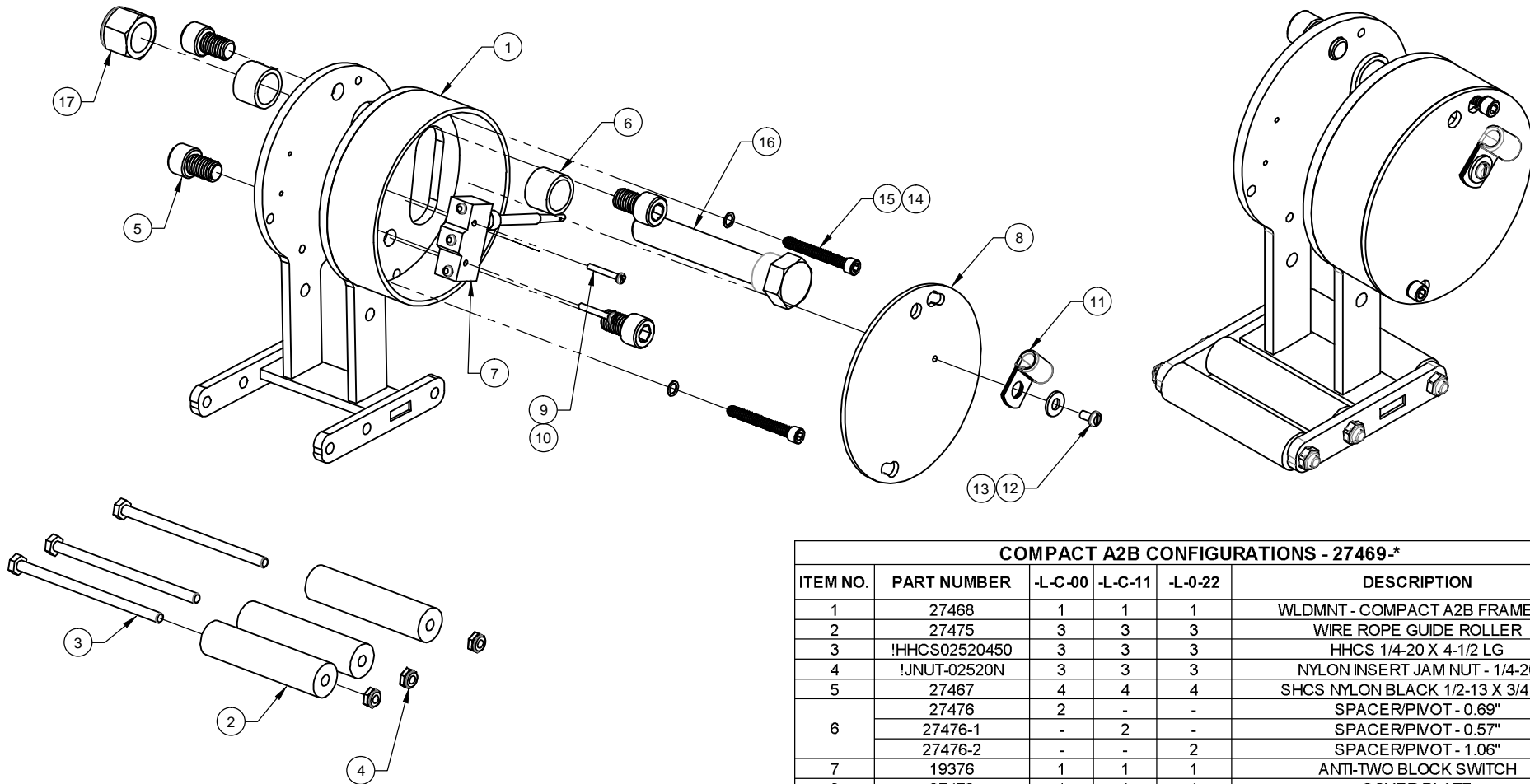
11-18-24A

SECTION

C400

26958

# COMPACT A2B - 27469-\* - REPLACEMENT PARTS LIST



COMPACT A2B CONFIGURATIONS - 27469-\*

ITEM NO.	PART NUMBER	-L-C-00	-L-C-11	-L-0-22	DESCRIPTION
1	27468	1	1	1	WLDMNT - COMPACT A2B FRAME LH
2	27475	3	3	3	WIRE ROPE GUIDE ROLLER
3	!HHCS02520450	3	3	3	HHCS 1/4-20 X 4-1/2 LG
4	!JNUT-02520N	3	3	3	NYLON INSERT JAM NUT - 1/4-20
5	27467	4	4	4	SHCS NYLON BLACK 1/2-13 X 3/4 LG
6	27476	2	-	-	SPACER/PIVOT - 0.69"
	27476-1	-	2	-	SPACER/PIVOT - 0.57"
	27476-2	-	-	2	SPACER/PIVOT - 1.06"
7	19376	1	1	1	ANTI-TWO BLOCK SWITCH
8	27473	1	1	1	COVER PLATE
9	!PHCS#0632100	2	2	2	PHILLIPS HEAD CAP SCREW 6-32 X 1 LONG
10	!LWSH#06	2	2	2	LOCK WASHER - 6
11	19269	1	1	1	WIRE CLAMP, 3/8 ID VIBRATION DAMPING
12	!PHCS#1032038	1	1	1	PAN HEAD CAP SCREW 10-32 X 3/8 LONG
13	!FWSH-025	1	1	1	FLAT WASHER - 1/4
14	!SHCS02520200SS	2	2	2	SHCS, 1/4-20 X 2.00 LONG, STAINLESS STEEL
15	23379	2	2	2	WASHER, NYLON, BLACK, .375" O.D. X .25" I.D.
16	28362	1	1	-	COMPACT A2B CUT-OUT CAM WELDED ASSY.
	!HHCS07510450	-	-	1	HHCS, 3/4-10 X 4.50 LONG, GR.5
17	LNUT-07510	1	1	1	NYLON INSERT LOCK NUT - 3/4-10



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
REPLACEMENT PARTS LIST

COMPACT A2B - 27469-\*

DATE  
7-10-24A

SUPERSEDES  
06-11-24

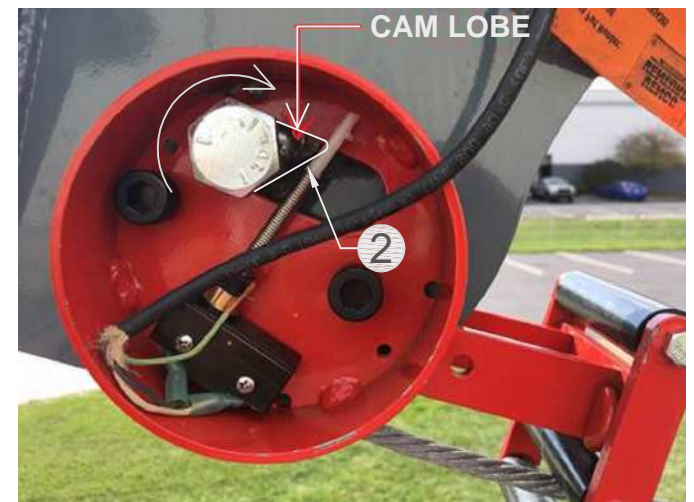
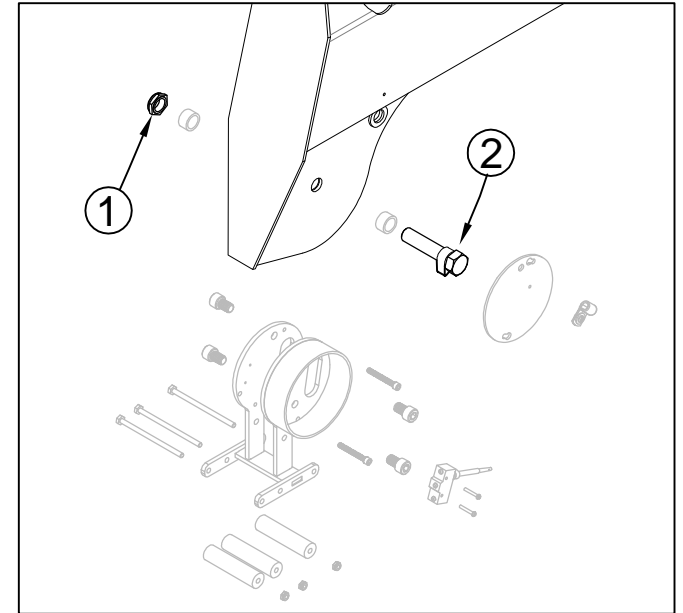
SECTION  
C400

26942

# 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

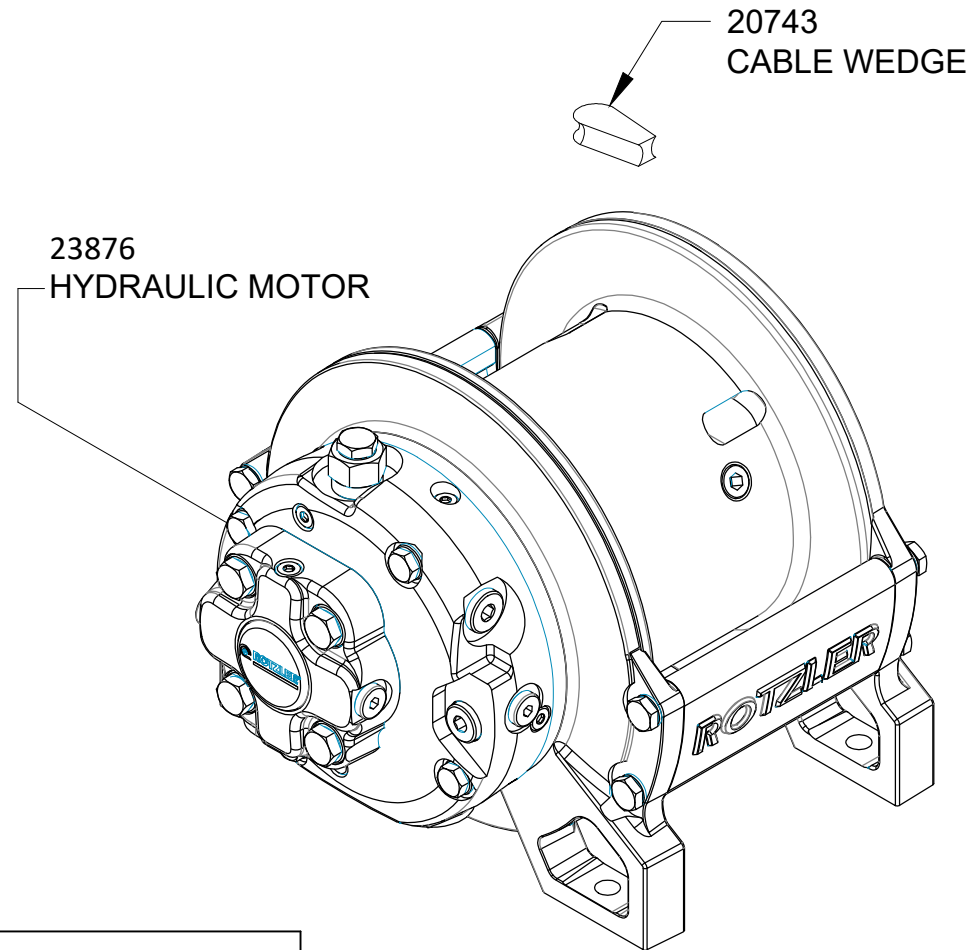
08-03-21A

SECTION

C400

28239

# TI1 & TI2 WINCH REPLACEMENT PARTS DRAWING



## WINCH SEALS PACKAGE

TI1	TI2
23874	23848



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

TI1 & TI2 REPLACEMENT PARTS DRAWING

HT40/45/50KX

DATE

05-30-23

SUPERSEDES

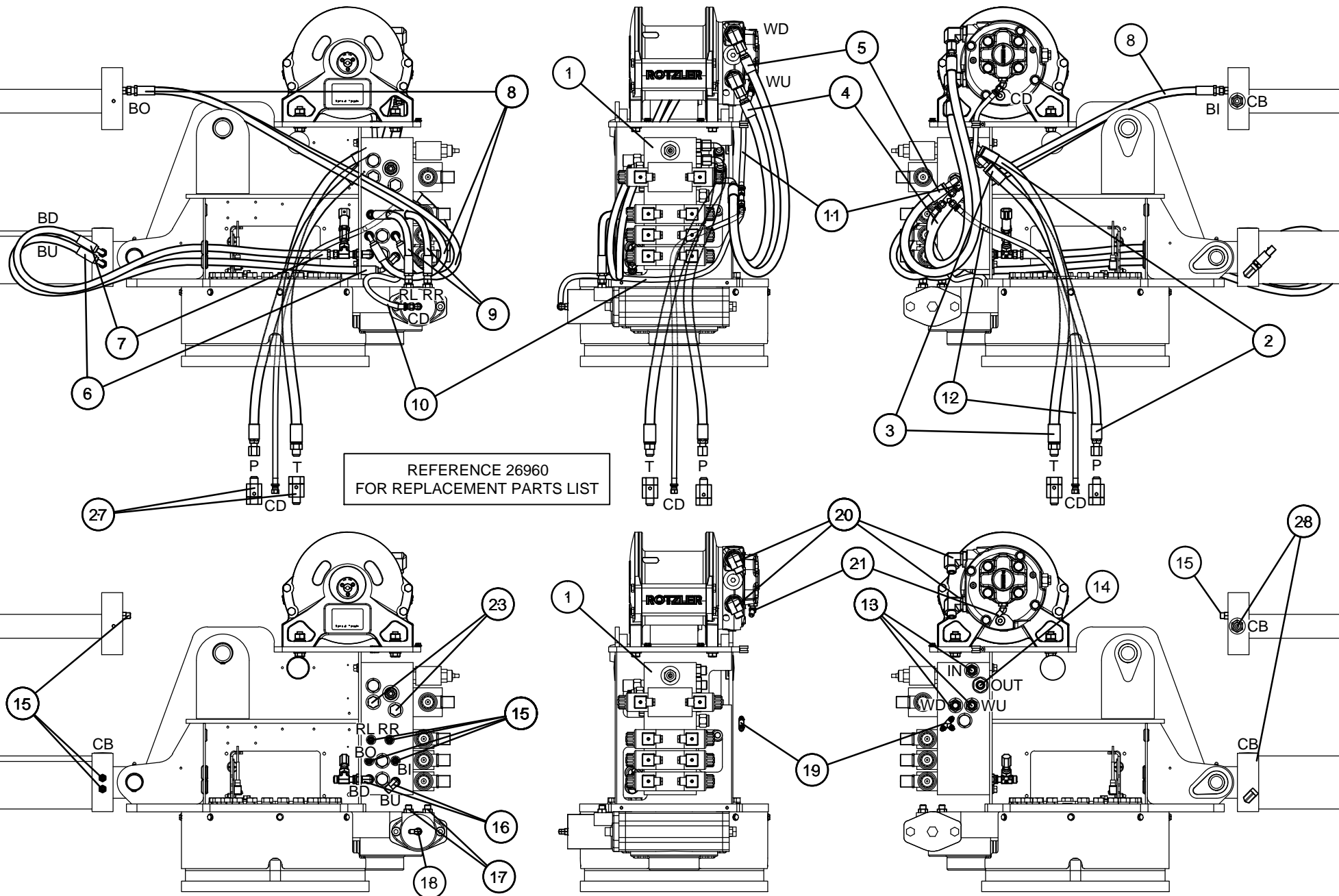
-

SECTION

C400

26896

# REPLACEMENT PARTS DRAWING - HYDRAULIC COMPONENTS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS, HYD. COMPONENTS

HT45 VLC SERIES

DATE

07-08-24A

SUPERSEDES

06-11-24

SECTION

C400

26959

# REPLACEMENT PARTS LIST - HYDRAULIC COMPONENTS

#	DESCRIPTION	QTY	PART NUMBER	APPLICATION
1	VALVE MANIFOLD; PROPORTIONAL, HT40-55KX	1	22736H-3	REAR OF MECHANISM, INSIDE REAR COVER
2	HOSE ASSEMBLY; PRESSURE SUPPLY	1	23798	RIGHT SIDE VALVE BANK TO COMPARTMENT SIDE
3	HOSE ASSEMBLY; RETURN SUPPLY	1	23799	RIGHT SIDE VALVE BANK TO COMPARTMENT SIDE
4	HOSE ASSEMBLY; WINCH UP	1	27024	RIGHT SIDE VALVE BANK TO WINCH UP PORT
5	HOSE ASSEMBLY; WINCH DOWN	1	27025	RIGHT SIDE VALVE BANK TO WINCH DOWN PORT
6	HOSE ASSEMBLY; BOOM UP	1	27026	LEFT SIDE VALVE BANK TO BOOM UP PORT
7	HOSE ASSEMBLY; BOOM DOWN	1	27027	LEFT SIDE VALVE BANK TO BOOM DOWN PORT
8	HOSE ASSEMBLY; BOOM IN & OUT	2	27592	EXTENSION PORTS TO LEFT SIDE VALVE BANK
9	HOSE ASSEMBLY; ROTATION LEFT & RIGHT	2	27598	LEFT SIDE VALVE BANK TO ROTATION PORTS
10	HOSE ASSEMBLY; WINCH CASE DRAIN	1	22952	ROTATION CASE DRAIN TO T-FITTING JUNCTION
11	HOSE ASSEMBLY; ROTATION CASE DRAIN	1	22953	WINCH CASE DRAIN TO T-FITTING JUNCTION
12	HOSE ASSEMBLY; CASE DRAIN OUT	1	22903	T-FITTING JUNCTION TO COMPARTMENT SIDE
13	FITTING; ADAPTER, STRAIGHT, 8OFS-10MO	3	FF6400-0810	RIGHT SIDE VALVE BANK; IN, WU & WD PORTS
14	FITTING; ADAPTER, STRAIGHT, 8OFS-12MO	1	FF6400-0812	RIGHT SIDE VALVE BANK, OUT PORT
15	FITTING; ADAPTER, STRAIGHT, 6OFS-6MO	8	FF6400-0606	ELEVATION, EXTENSION, RL, RR, BI & BO PORTS
16	FITTING; ADAPTER, 90° ELBOW, 6OFS-6MO	2	FF6801-0606	LEFT SIDE VALVE BANK, BU & BD PORTS
17	FITTING; ADAPTER, STRAIGHT, 6OFS-10MO	2	FF6400-0610	ROTATION RIGHT & LEFT PORTS
18	FITTING; ADAPTER, 90° ELBOW, 4MJ-4MO	1	H6801-0404	ROTATION CASE DRAIN PORT
19	FITTING; ADAPTER, T-SHAPE, 4MJ-4MJ-4MJ	1	H2603-040404	T-FITTING JUNCTION FOR CASE DRAIN HOSES
20	FITTING; ADAPTER, 90° ELBOW, 8OFS-12MO BRITISH	2	FF3801-8-12	WINCH UP & DOWN PORTS, ROTZLER TI SERIES
21	FITTING; ADAPTER, 45° ELBOW, 4MJ-4MO BRITISH	1	3802-0404	WINCH CASE DRAIN PORT, ROTZLER TI SERIES
22	-	-	-	-
23	FITTING; PLUG, 10MO	2	H6408-10	LEFT SIDE VALVE BANK, WU & WD PORTS
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
▲ 27	LIVE SWIVEL; CONTINUOUS, STRAIGHT, 8MJ-8FJ	2	22764	PRESSURE & RETURN HOSES, COMPARTMENT SIDE
28	COUNTER-BALANCE VALVE	2	20893	ELEVATION & EXTENSION CYLINDER VALVE
HYDRAULIC FUNCTION KEY				
P	PRESSURE SUPPLY	RL	ROTATION LEFT	
T	TANK RETURN	RR	ROTATION RIGHT	
CD	CASE DRAIN	BO	BOOM OUT	
IN	PRESSURE IN	BI	BOOM IN	
OUT	RETURN OUT	BU	BOOM UP	
WU	WINCH UP	BD	BOOM DOWN	
WD	WINCH DOWN	CB	COUNTER-BALANCE VALVE	

REFERENCE 26959 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

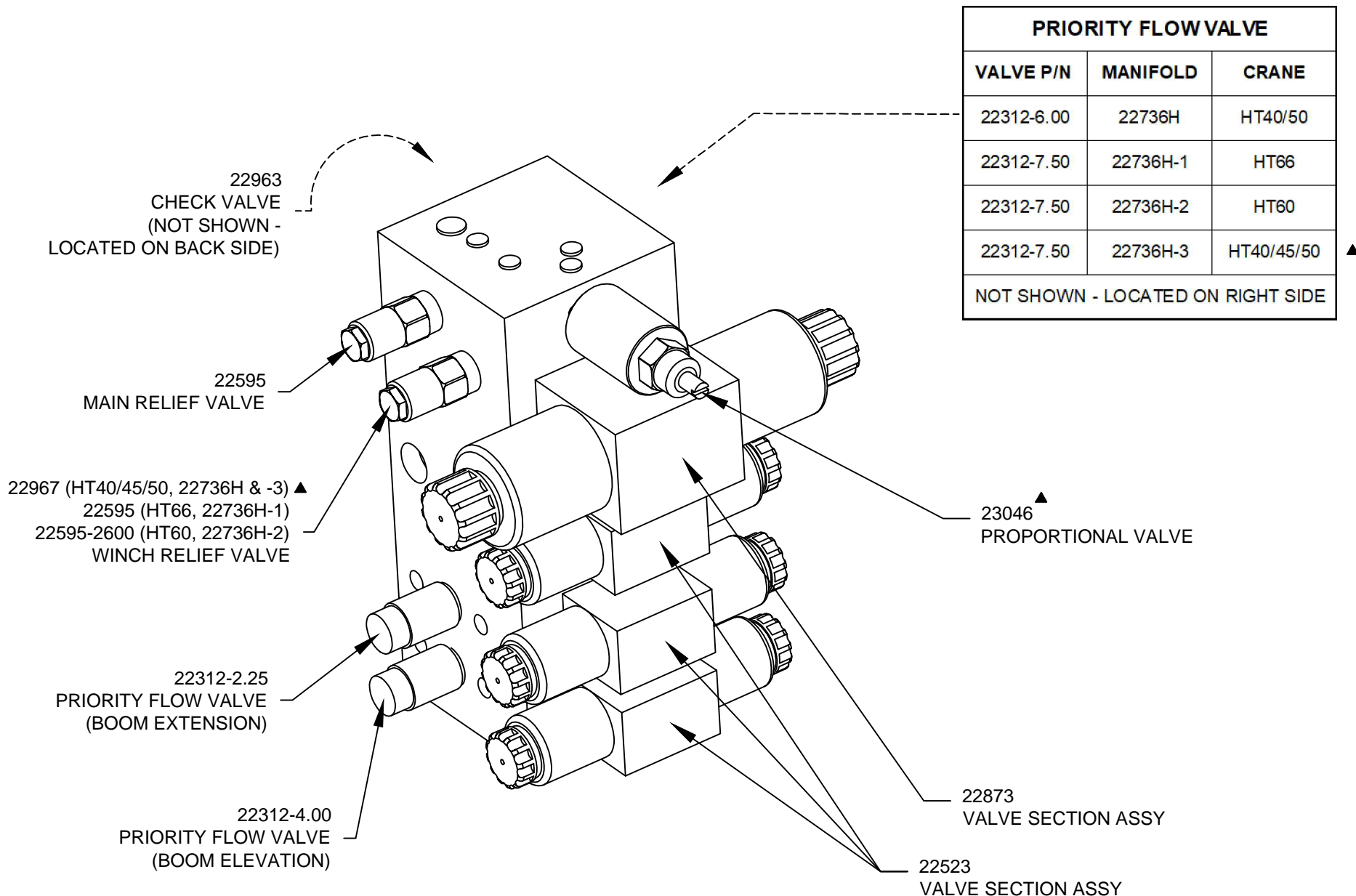
TITLE  
**REPLACEMENT PARTS LIST**  
  
**HT45 VLC SERIES**

DATE  
**07-08-25A**  
  
SUPERSEDES  
**06-11-24**

SECTION  
**C400**  
  
**26960**



# 22736 SERIES VALVE MANIFOLD REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
22736 REPLACEMENT PARTS

HT40/50/60/66KX PROPORTIONAL

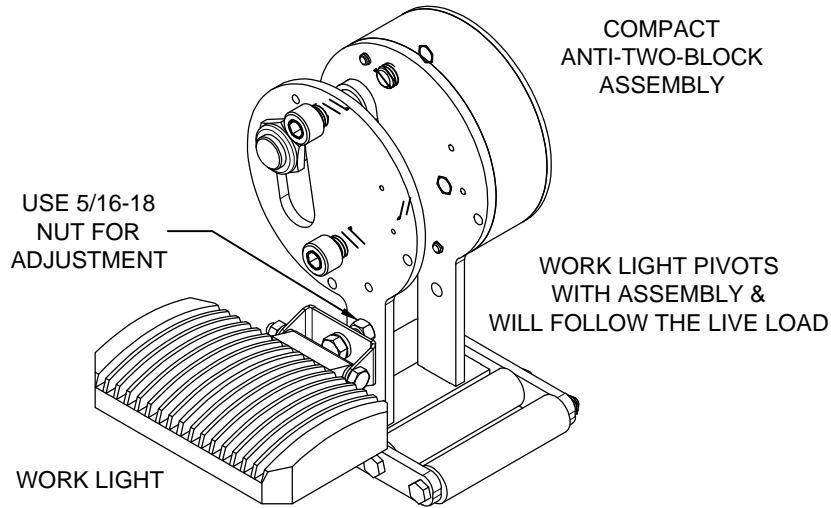
DATE  
04-19-24H

SUPERSEDES  
11-10-22G

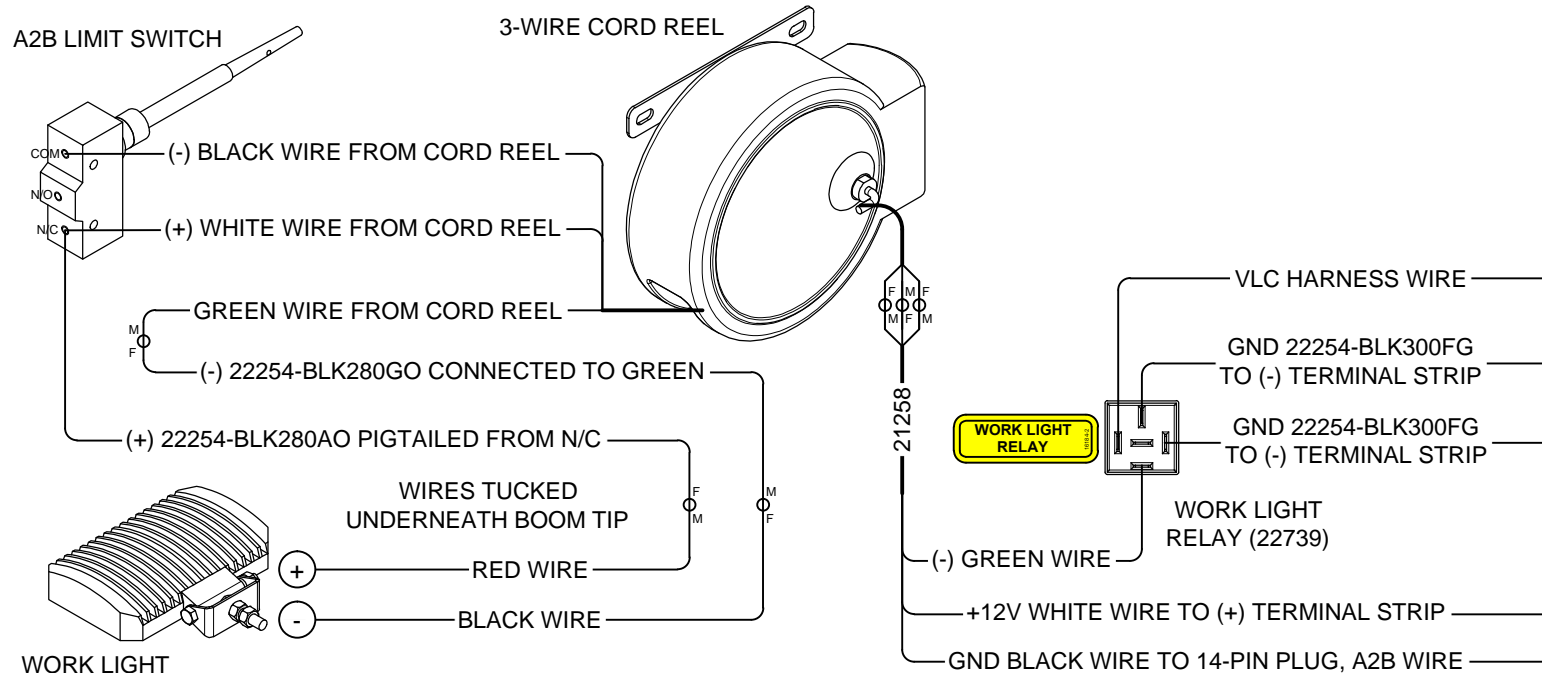
SECTION  
C400

22940

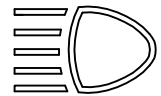
# WORK LIGHT INSTALLATION: 28240 (3-WIRE CORD REEL ON VLC CRANES)



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



WORK LIGHT ON/OFF  
LATCHED  
(ON SAME TOGGLE AS HORN)



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

WORK LIGHT INSTALLATION, 3-WIRE CORD REEL

VLC CRANES

DATE

06-12-24B

SUPERSEDES

03-03-23A

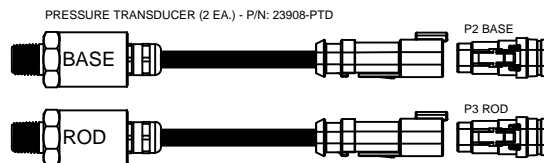
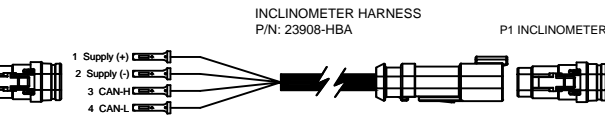
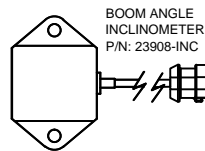
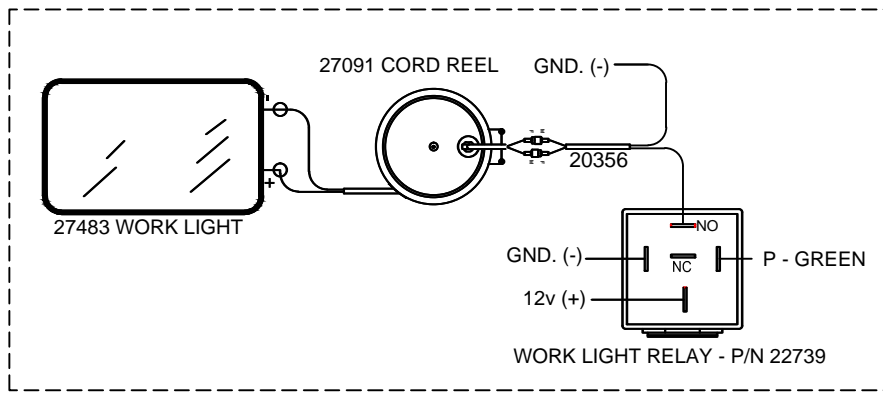
SECTION

C400

28188



# OPTIONAL WORKLIGHT



(STOW WIRES & COVER WITH HEAT-SHRINK)

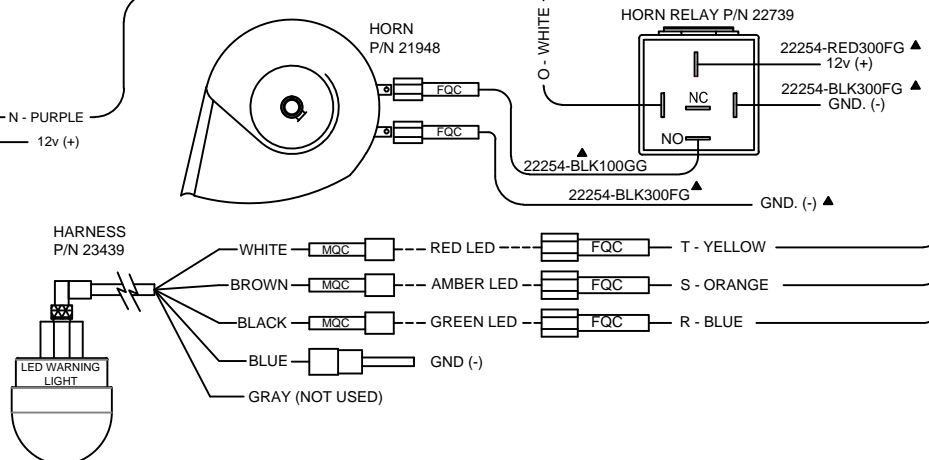
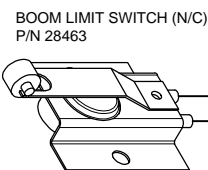
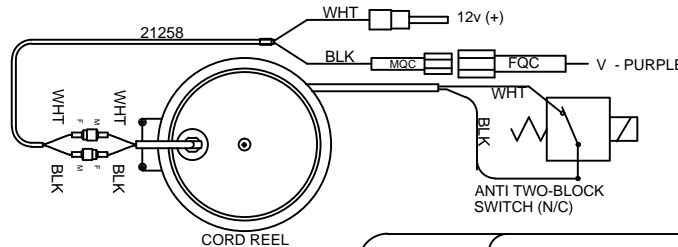
ENGINE START - L - YELLOW

ENGINE STOP - M - BROWN

AUX 1 / IDLE UP - U - BROWN

AUX 2 / IDLE DOWN - W - WHITE

AUX - Q - GRAY



VLC-K WIRING HARNESS  
P/N 23908-HN

CONTINUED ON  
NEXT PAGE



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
WIRING DIAGRAM - PG. 1

VLC-K ("ORANGE") SERIES

DATE  
02-25-25A

SUPERSEDES  
06-17-24

SECTION  
C400

26963



**WORK LIGHT RELAY**  
 30 VCM (+12v Signal Wire) — 12v (+) TERMINAL BLK  
 — GND. (-) TERMINAL BLK  
 — GND. (-) TERMINAL BLK

**CORD REEL ASSY.**  
 — GND. (-) TERMINAL BLK

**WORK LIGHT**

**WINCH UP**  
 30-PIN PLUG, #26 WINCH UP  
 23258 GND. (-) TERMINAL BLK

**WINCH DOWN**  
 30-PIN PLUG, #27 WINCH DOWN  
 23258 GND. (-) TERMINAL BLK

**ROT. RIGHT**  
 30-PIN PLUG, #16 ROT. RIGHT  
 ROTATION LIMIT SWITCHES (WIRE HARNESS 23259)

**ROT. LEFT**  
 30-PIN PLUG, #17 ROTATION LEFT  
 ROTATION LIMIT SWITCHES (WIRE HARNESS 23259)

**BOOM IN**  
 30-PIN PLUG, #15 BOOM RETRACT  
 23258 GND. (-) TERMINAL BLK

**BOOM OUT**  
 30-PIN PLUG, #25 BOOM EXTEND  
 23258 GND. (-) TERMINAL BLK

**BOOM UP**  
 30-PIN PLUG, #13 BOOM UP  
 23258 GND. (-) TERMINAL BLK

**BOOM DOWN**  
 30-PIN PLUG, #14 BOOM DOWN  
 23258 GND. (-) TERMINAL BLK

**REF. 23258**

**23258 GND. (-) TERM. BLOCK**  
 28116 JUMPER  
 19187 TERM. BLOCK GND. (-)  
 23258 GND. (-) TERM. BLOCK

**ROTATION RIGHT COIL DIN CONNECTOR**  
 GRN  
 WHT  
 BLK  
 23258 GND. (-) TERMINAL BLK

**ROTATION LEFT COIL DIN CONNECTOR**  
 GRN  
 WHT  
 BLK  
 23258 GND. (-) TERMINAL BLK

**ROTATION LIMIT SWITCHES**  
 ▲ 24072 SPADE TERMINAL STYLE  
 19376-R SCREW TERMINAL STYLE

**RL**  
 NC  
 NO  
 COM  
 WHT  
 GRN

**RR**  
 COM  
 NO  
 NC  
 WHT  
 GRN

**CONNECTOR, LESS PINS, P/N 23446**  
 Chassis Tilt Inclinator

**CONNECTOR, LESS PINS, P/N 23446**  
 Boom Angle Inclinator

**LED Warning Light Harness**  
 Brown Wire, (RED LED)  
 A2B  
 STRIP-BACK ENDS 1/4"

**LED Warning Light Harness**  
 White Wire, (AMBER LED)  
 (AMBER LED)

**23258 GND. (-) TERMINAL BLK**  
 2 CAN - L  
 3 CAN - GND  
 4 CAN - H  
 12v (+) TERMINAL BLK  
 11 ENGINE START  
 12 ENGINE STOP  
 13 BOOM UP  
 14 BOOM DOWN  
 15 BOOM RETRACT  
 16 ROTATION RIGHT  
 17 ROTATION LEFT  
 18 HORN RELAY  
 19 GREEN LED INDICATOR  
 21 IDLE UP  
 22 IDLE DOWN  
 23 VSW SUPPLY  
 24 MC SUPPLY  
 25 BOOM EXTEND  
 26 WINCH UP  
 27 WINCH DOWN  
 28 PROP VALVE  
 30 WORK LIGHT

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 STRIP-BACK ENDS 1/4"

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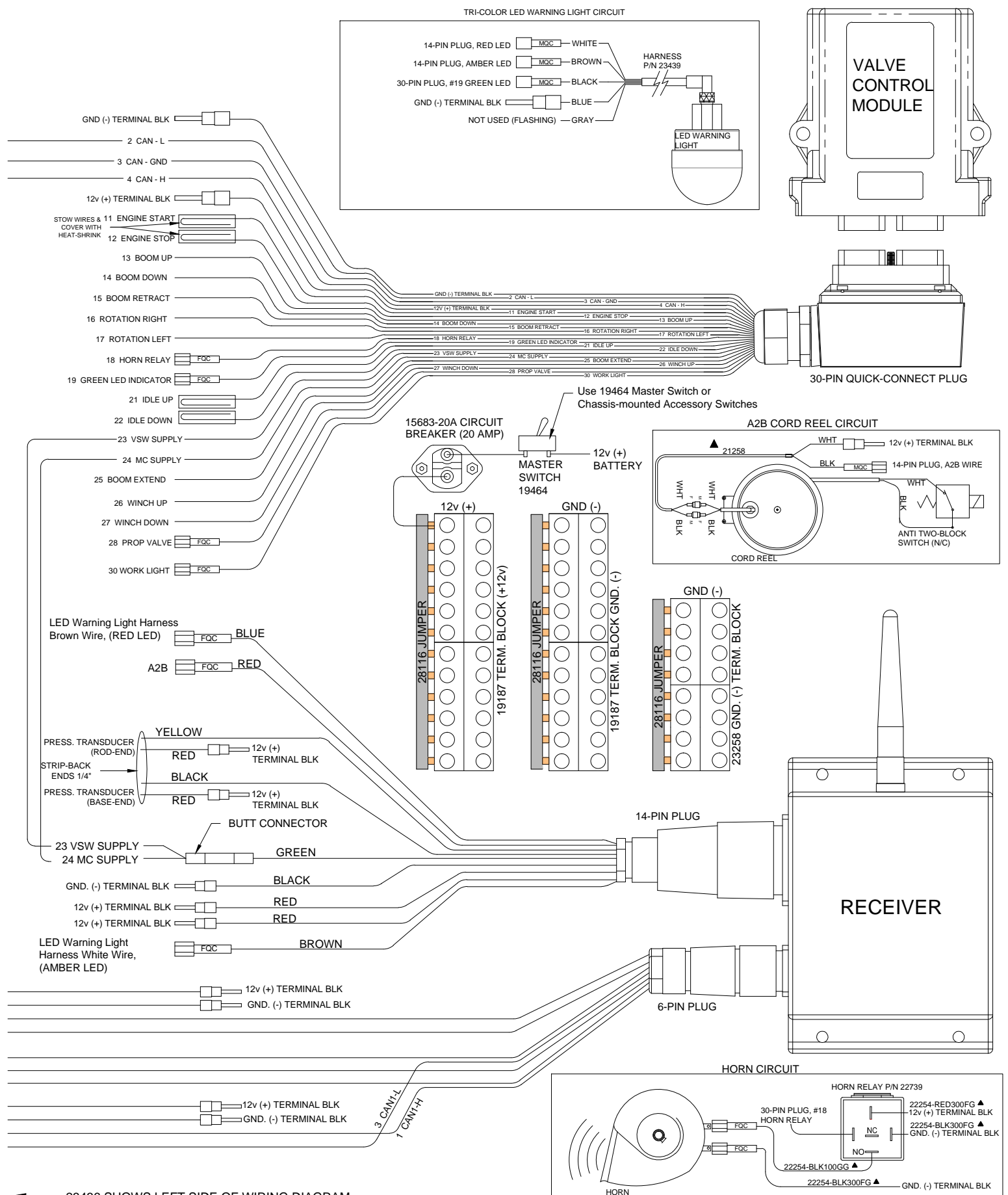


**VENTURO®**

TITLE
WIRING DIAGRAM, PG. 1
VLC-H ("RED") SERIES

SECTION  
C400

23436



23436 SHOWS LEFT SIDE OF WIRING DIAGRAM

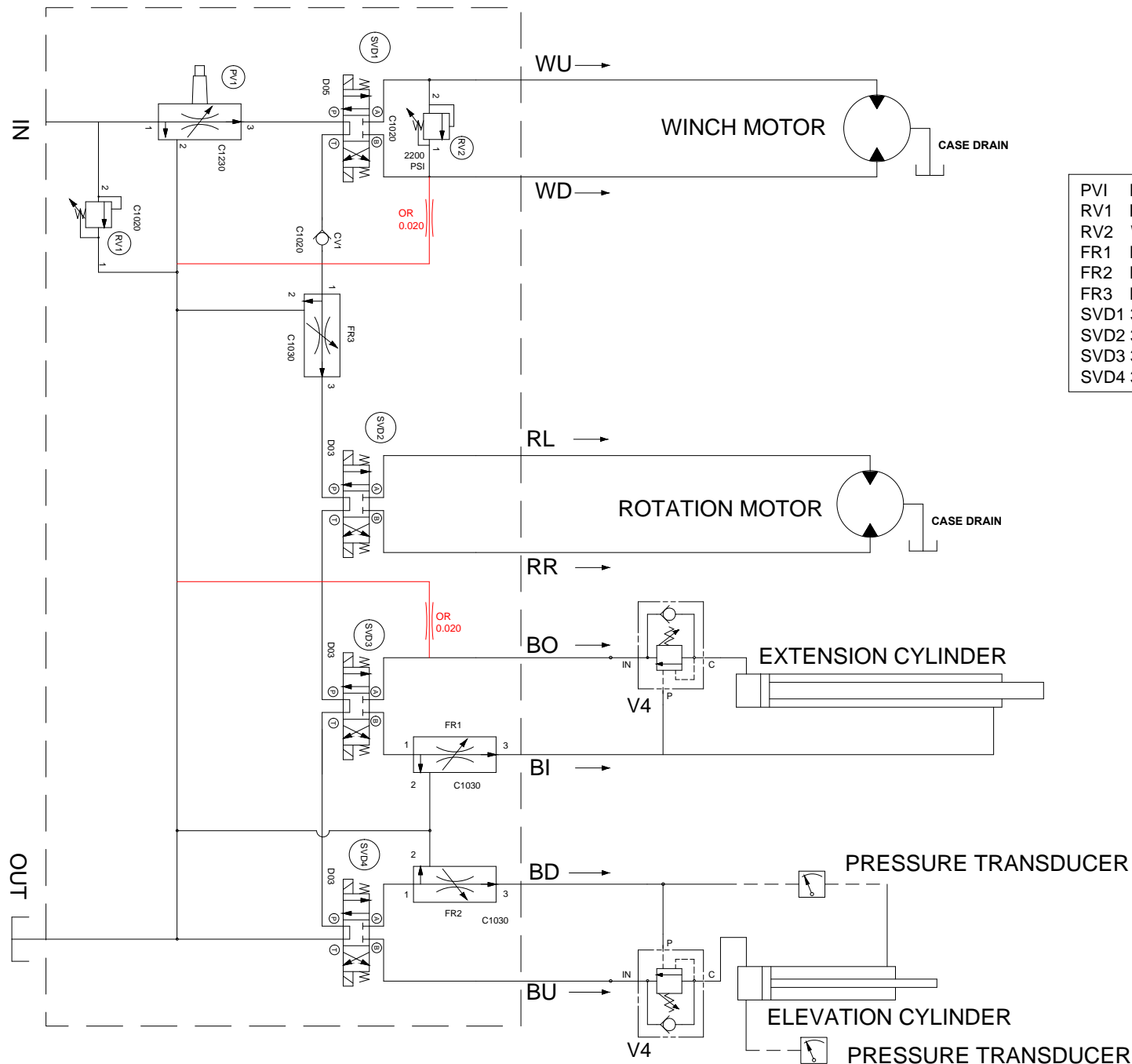


VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
**WIRING DIAGRAM, PG. 2**  
  
VLC-H ("RED") SERIES

DATE  
**02-25-25P**  
  
SUPERSEDES  
**07-08-24N**

SECTION  
**C400**  
  
**23437**



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
HYDRAULIC SYSTEM DIAGRAM

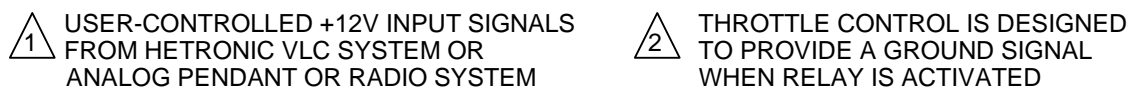
HT45/55 VLC SERIES

DATE  
06-17-24C

SUPERSEDES  
12-04-23B

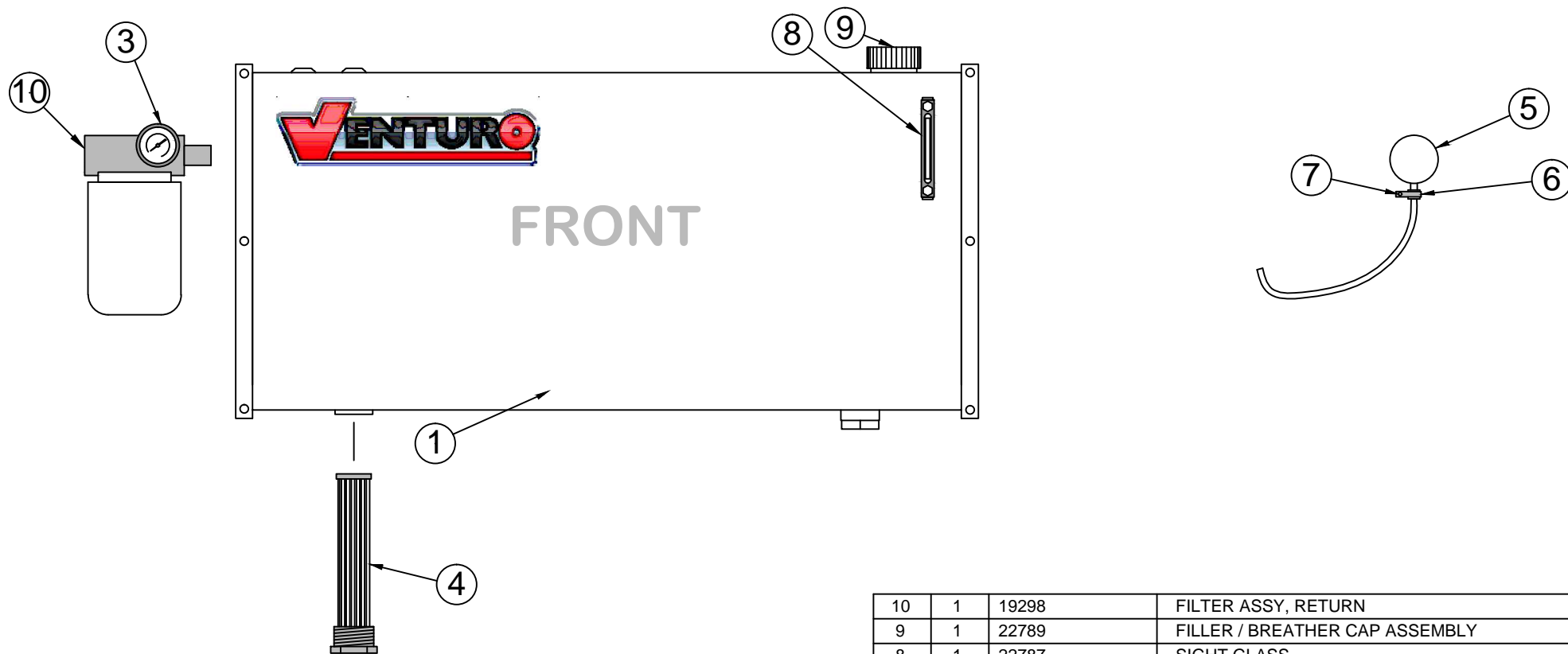
SECTION  
C400

23868



**VENTURO®**

22615



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

SUPSEDES

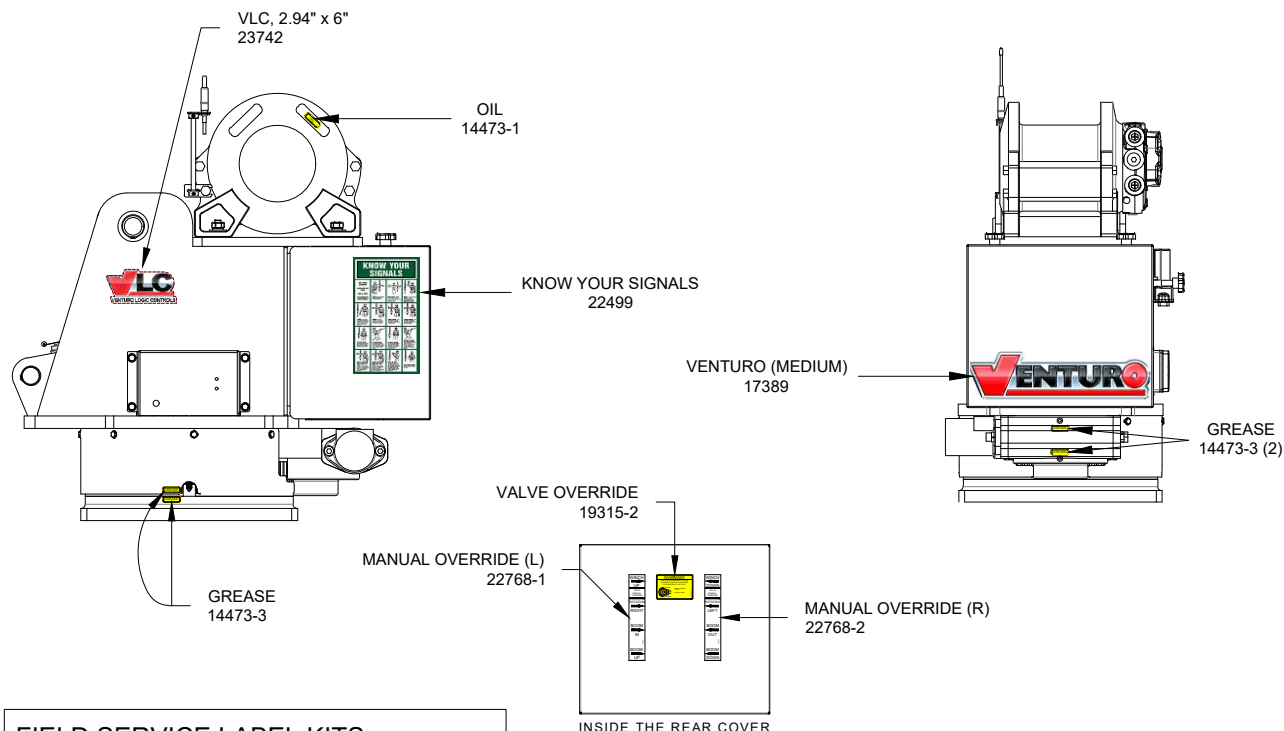
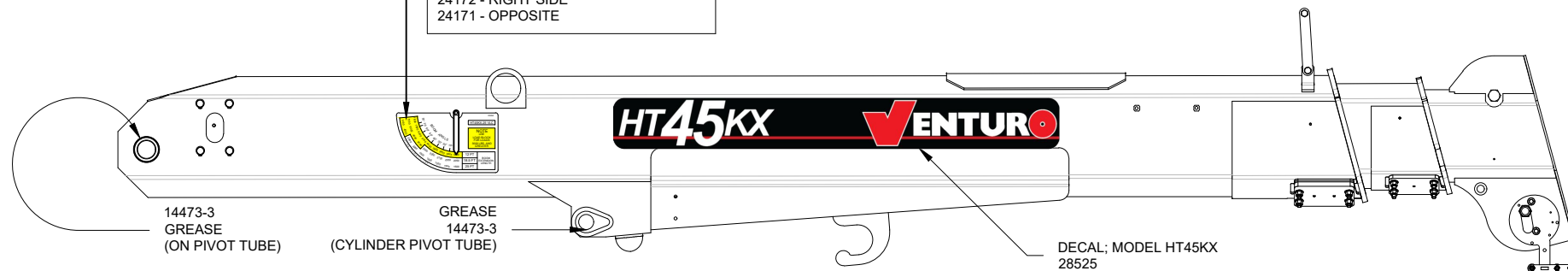
08-04-15C

23224

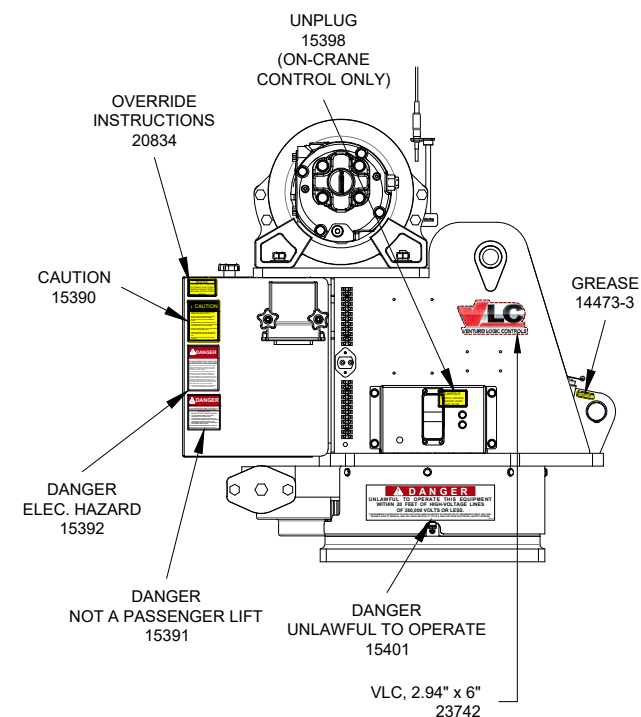
BOOM CAPACITY HT45KX - 20' (7500 lb.)  
23462 - RIGHT  
23463 - OPPOSITE

BOOM CAPACITY HT45KX - 25' (7800 lb.)  
23464 - RIGHT SIDE  
23465 - OPPOSITE

BOOM CAPACITY HT45KX - 30' (7800 lb.)  
24172 - RIGHT SIDE  
24171 - OPPOSITE



FIELD SERVICE LABEL KITS:  
23739 - HT45KX-VLC



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
DECAL PLACEMENT

HT45KX VLC SERIES

DATE  
06-19-23

SUPERSEDES  
-

SECTION  
C400

28527



# FIELD SERVICE LABEL KITS; HT45 VLC SERIES

HT45KX			23739 FIELD SERVICE LABEL KITS	
-20 (20' BOOM)	-25 (25' BOOM)	-30 (30' BOOM)		
QTY			PART #	DESCRIPTION
1	1	1	16184-1	DECAL; HORN RELAY
1	1	1	16184-2	DECAL; WORK LIGHT RELAY
2	2	2	28525	DECAL; MODEL HT45KX
1	1	1	17389	DECAL; VENTURO LOGO, MEDIUM
1	1	1	23741	DECAL; VLC MODEL SERIES
1	-	-	23462	DECAL; BOOM CAPACITY, 10-16-20, RIGHT
1	-	-	23463	DECAL; BOOM CAPACITY, 10-16-20, LEFT
-	1	-	23464	DECAL; BOOM CAPACITY, 12-18.5-25, RIGHT
-	1	-	23465	DECAL; BOOM CAPACITY, 12-18.5-25, LEFT
-	-	1	24172	DECAL; BOOM CAPACITY, 13.5-22-30, RIGHT
-	-	1	24171	DECAL; BOOM CAPACITY, 13.5-22-30, LEFT
1	1	1	14473-1	DECAL; OIL
8	8	8	14473-3	DECAL; GREASE
1	1	1	17813	DECAL; OVERLOAD SENSING SYSTEM
1	1	1	22499	DECAL; KNOW YOUR SIGNALS
1	1	1	20834	DECAL; MANUAL OVERRIDE, INSTRUCTIONS
1	1	1	19315-2	DECAL; MANUAL OVERRIDE SHUT-OFF, PROPORTIONAL
1	1	1	22768-1	DECAL; MANUAL OVERRIDE, PROPORTIONAL, LEFT
1	1	1	22768-2	DECAL; MANUAL OVERRIDE, PROPORTIONAL, RIGHT
1	1	1	23766	IDWG: FIELD SERVICE LABEL KIT
1	1	1	28527	IDWG: DECAL PLACEMENT
1	1	1	INST-23233	SAFETY MANUAL, VENTURO CRANES
1	1	1	15397	KIT; ACCIDENTAL PREVENTION SIGNS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

FIELD SERVICE LABEL KITS

HT45 VLC SERIES

DATE

07-17-23H

SUPERSEDES

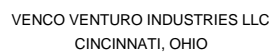
06-19-23G

SECTION

C400

23766

User Notes



## INSTALLATION MANUALS

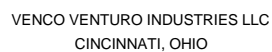
02-23-16

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25431

USER NOTES



## INSTALLATION MANUALS

02-23-16

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# 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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