



**OWNER'S MANUAL**

INST-26920

*HRBA \*G-\*\*\*\**

# PARTS & INSTALLATION MANUAL

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## HT40KX SERIES

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Included in this manual:

### HT40KX SERIES

- 6,000 lb Hydraulic Telescopic Service Crane
- Proportional and Non-Proportional
- 20 or 25 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).



# HT40KX SERIES

INST-26920 - 8/14/2025 (Rev: E0)

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| 25431     | NOTES                                                           |





# **SECTION 100**

## **DESCRIPTION**

### **&**

## **SPECIFICATIONS**



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

## SPECIFICATIONS

PTO-driven hydraulic system

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

40,000 ft-lb overturning moment (or as limited by truck stability)

Moment overload shut-off system

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

Hydraulic boom elevation

Hydraulic boom extension

Hydraulic 400° rotation

Corded remote control pendant

Radio remote control pendant (optional)

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    |
| BOOM ELEVATION     | -5° TO 75°        | -5° TO 75°        |
| BOOM HYD EXTENSION | 10 ft             | 13 ft             |
| BOOM MANUAL EXT    | -                 | -                 |
| CAPACITY           | 2000 lb @ 20.5 ft | 1175 lb @ 25.0 ft |
|                    | 6000 lb @ 7.5 ft  | 6000 lb @ 6.0 ft  |
| WIRE ROPE          | 3/8" x 100 ft     | 3/8" x 100 ft     |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

SPECS & OP. FEATURES

HT40KX

DATE

03-19-25

SUPERSEDES

-

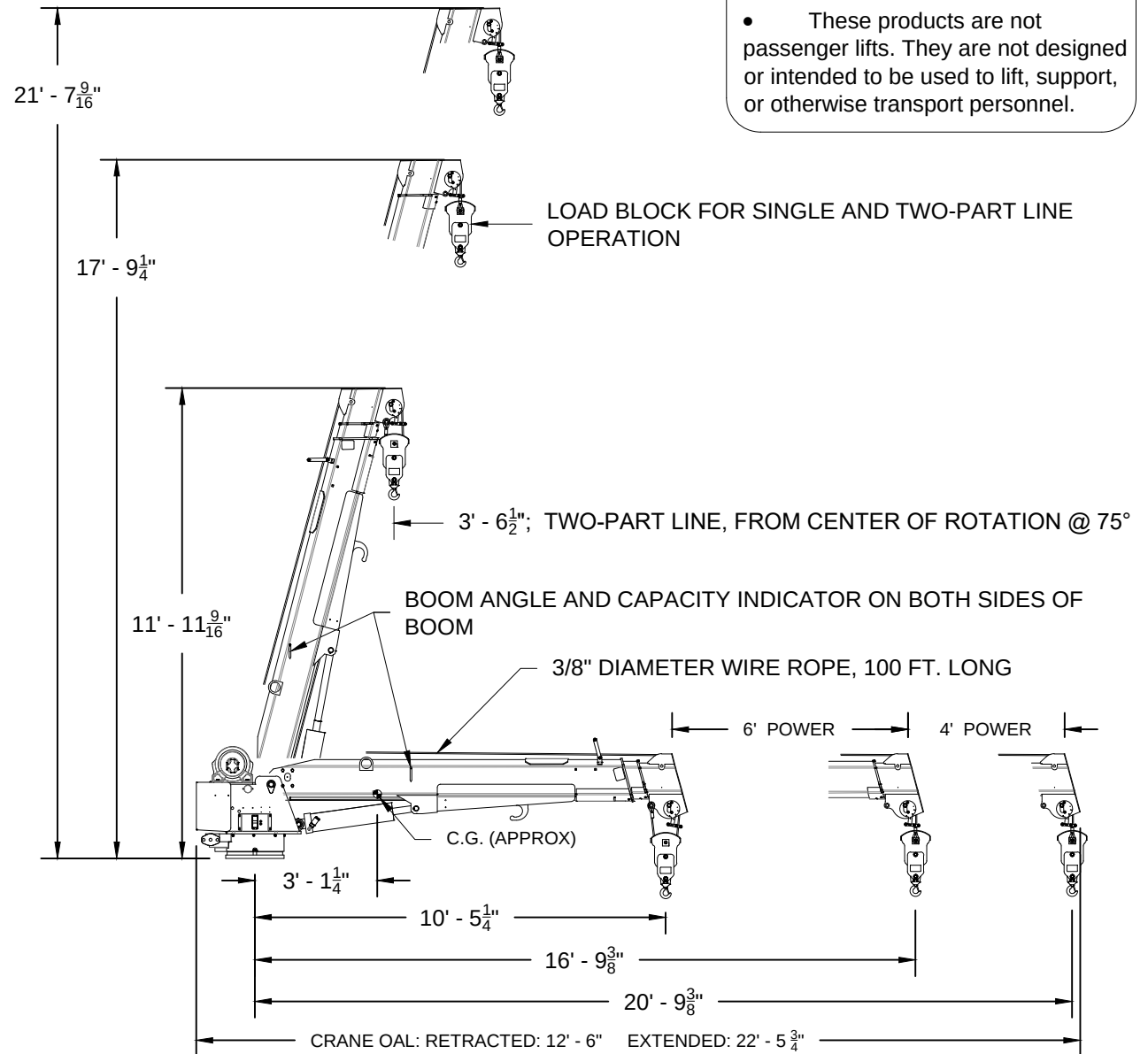
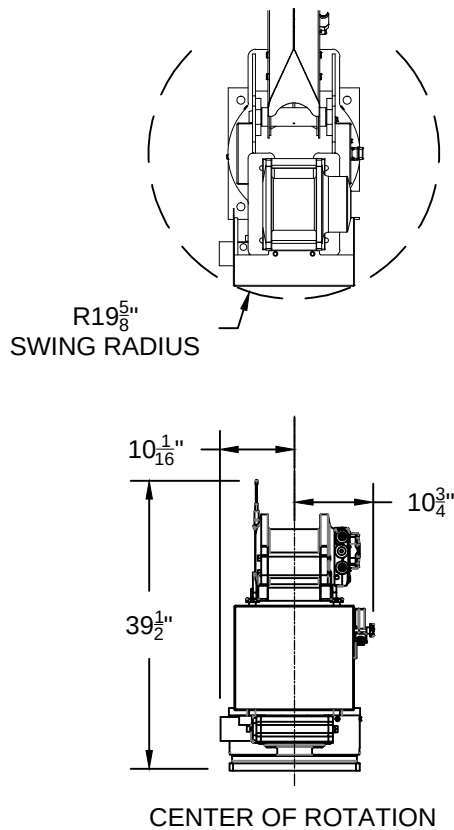
SECTION

C100

24447

# **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**

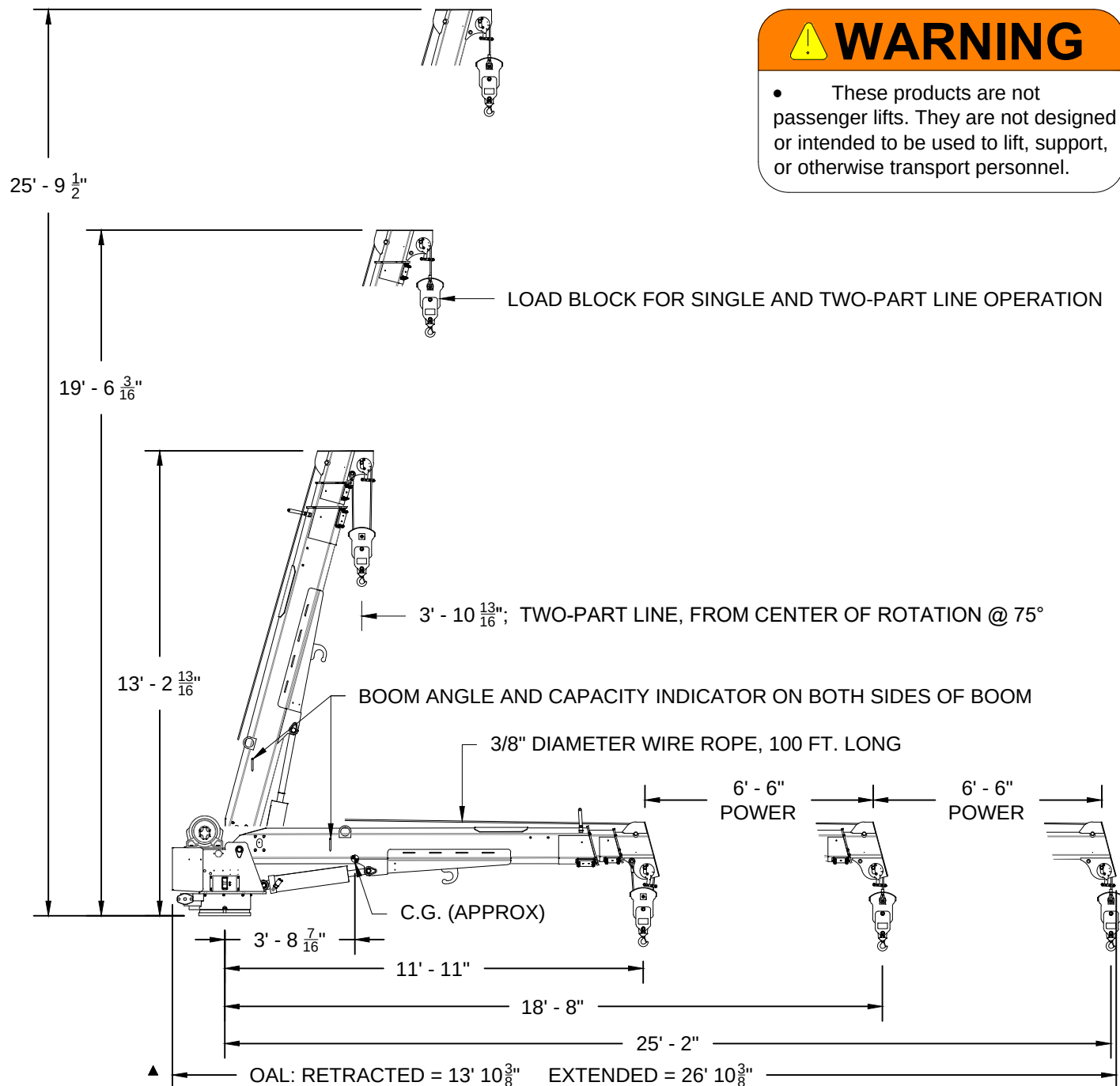
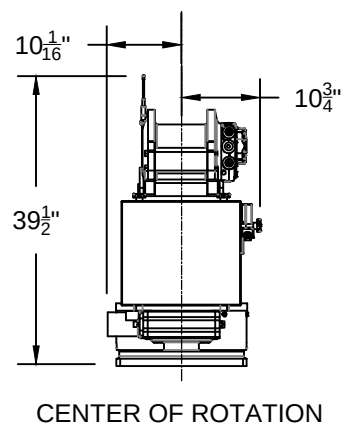
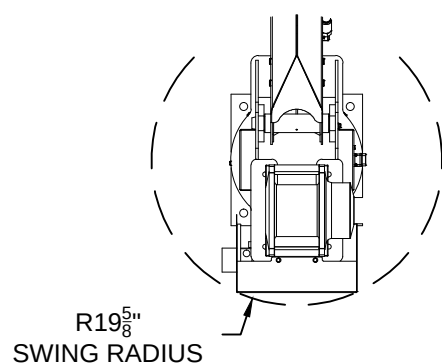
SUPERSEDES  
**05-25-23**

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.



VENCO VENTURO INDUSTRIES LLC  
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TITLE  
INSTALLATION DIMENSIONS

HT40/45/50KX-25' BOOM

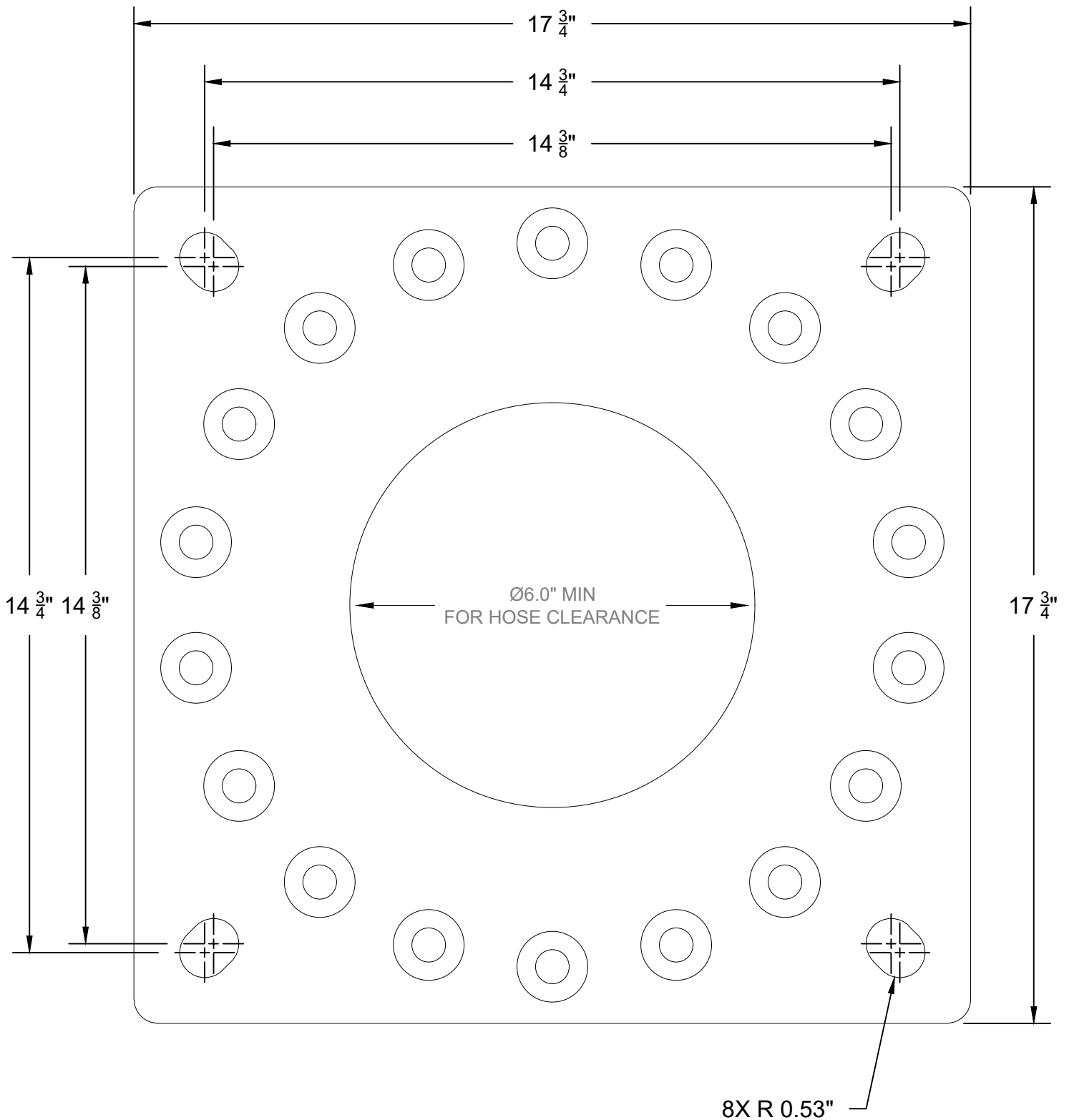
DATE  
10-03-24A

SUPERSEDES  
05-25-23

SECTION  
C100

26893

# 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

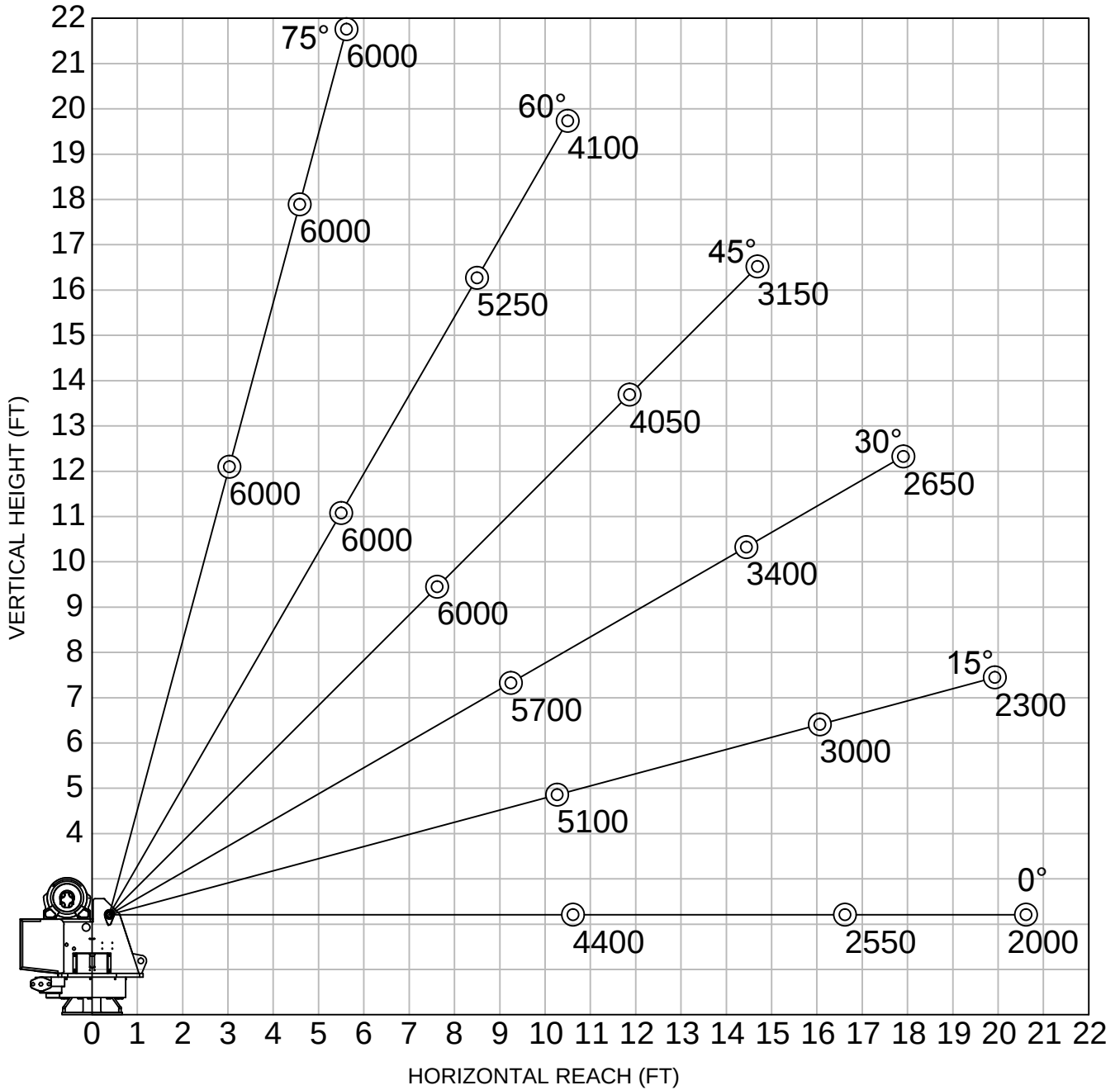
SECTION  
C100

26892

# HT40KX, 10'-16'-20' BOOM

▲ 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

HT40KX, 10'-16'-20' BOOM

DATE  
05-03-16H

SUPERSEDES  
06-17-14G

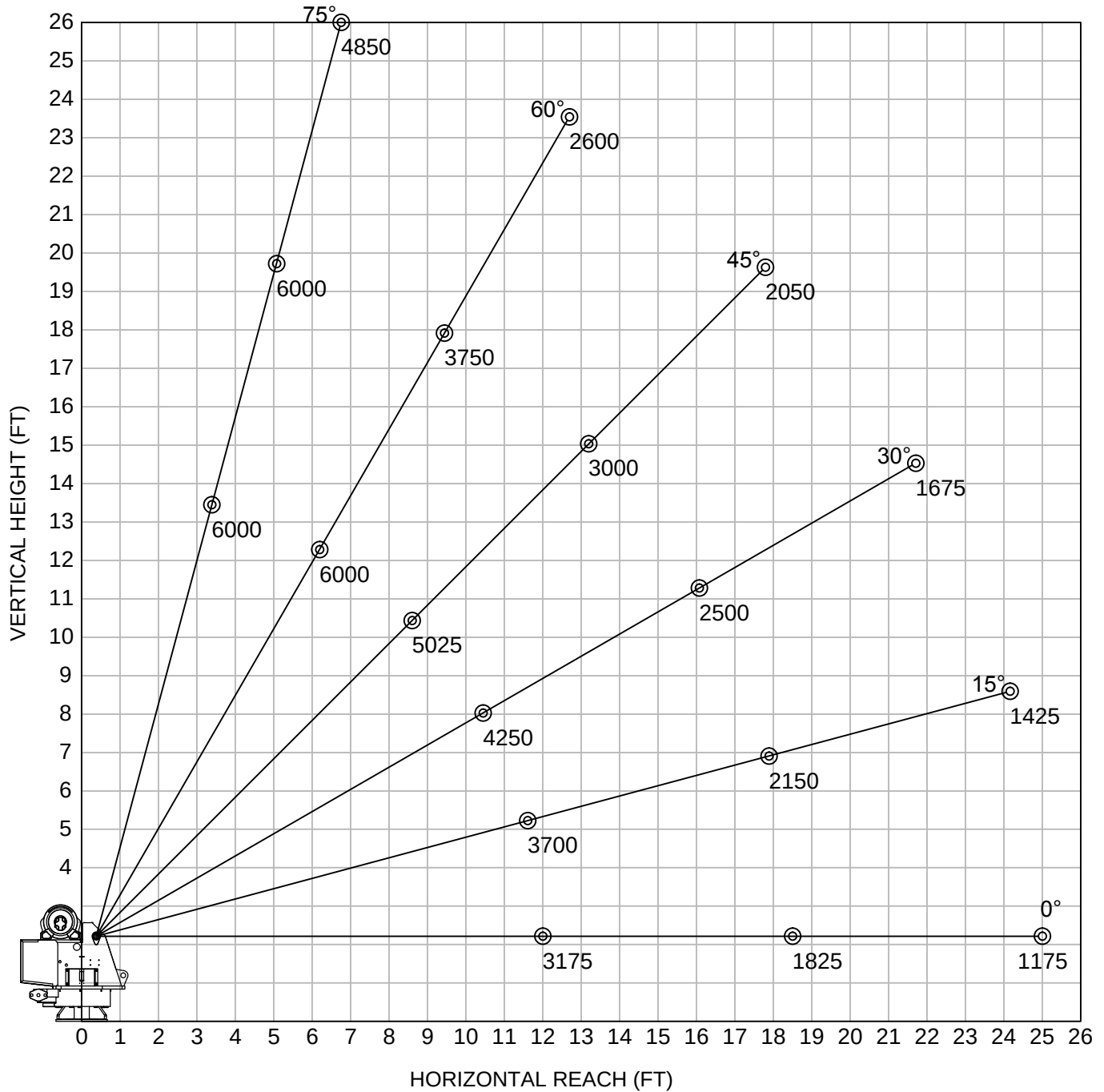
SECTION  
C100

22341

# HT40KX, 12'-18.5'-25' BOOM

▲ 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  
HT40KX, 12'-18.5'-25' BOOM

DATE  
05-03-16A  
SUPERSEDES  
04-23-14

SECTION  
C100  
23061

# SECTION 150

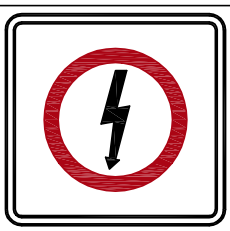
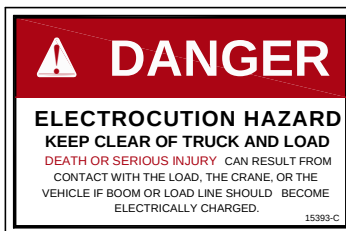
## SAFETY



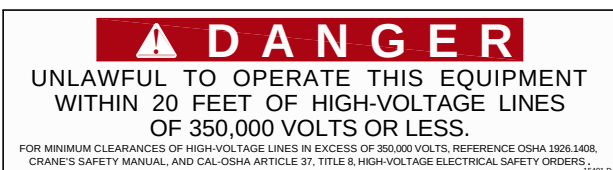
VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO



# 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<br>(nominal, kV, alternating current) | Minimum clearance distance<br>(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<br>(nominal, kV, alternating current) | While traveling - minimum clearance distance<br>(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<br>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

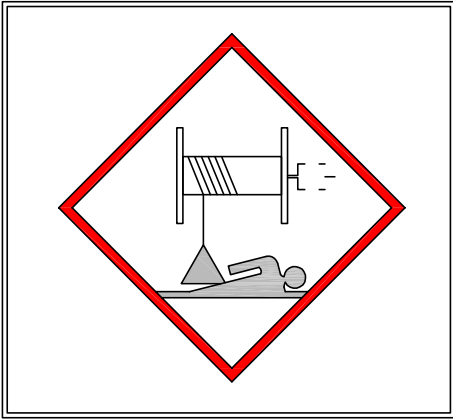
HYDRAULIC CRANES

SUPERSEDES

04-04-12C

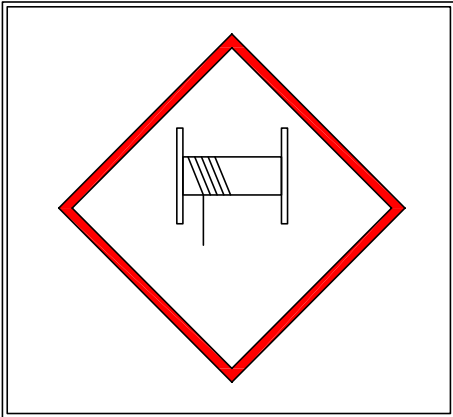
**920612**

# WINCH SAFETY WARNINGS



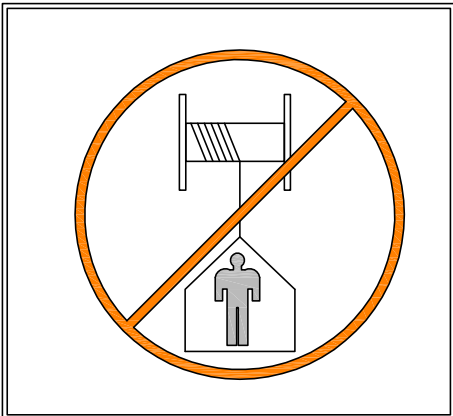
## DANGER

- 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.



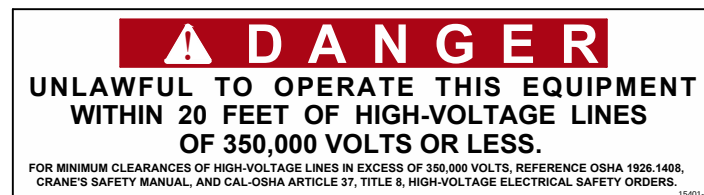
PART NO.: 15401

DECAL: UNLAWFUL TO OPERATE

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

QUANTITY: 1

PLACEMENT: Right side of housing.



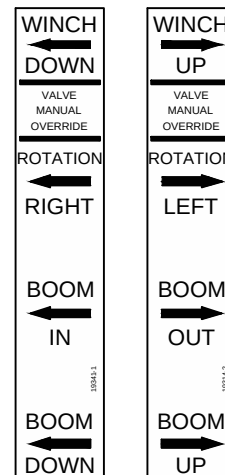
PART NO.: 19314-1 [LEFT] & -2 [RIGHT]

DECAL: MANUAL OVERRIDE (NON-PROP)

FUNCTION: To inform the operator of manual override locations.

QUANTITY: 1 EACH

PLACEMENT: Inside of rear cover.



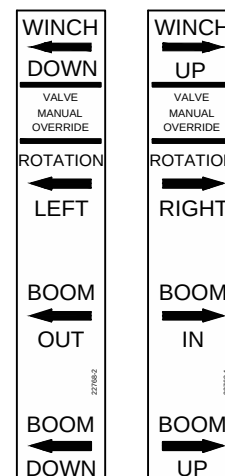
PART NO.: 22768-1 [LEFT] & -2 [RIGHT]

DECAL: MANUAL OVERRIDE (PROPORTIONAL)

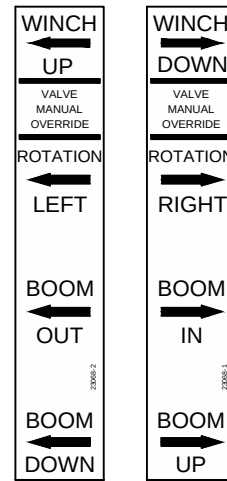
FUNCTION: To inform the operator of manual override locations.

QUANTITY: 1

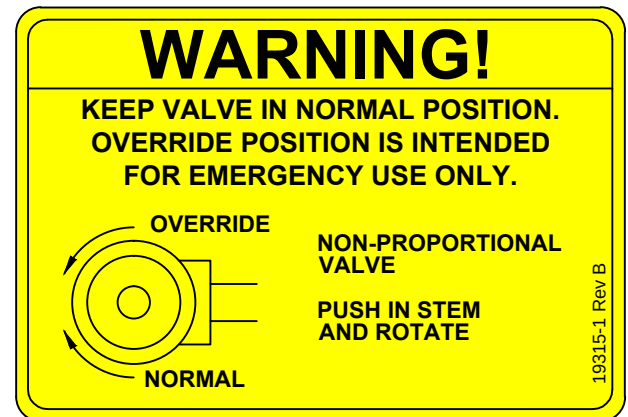
PLACEMENT: Inside of rear cover.



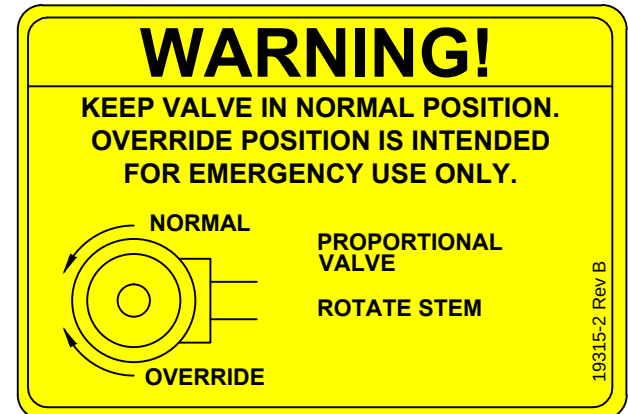
▲  
**PART NO.:** 23068-1 [LEFT] & -2 [RIGHT]  
**DECAL:** MANUAL OVERRIDE  
 (HT66KXX w/ TH-2 Winch ONLY)  
**FUNCTION:** To inform the operator of  
 manual override locations.  
**QUANTITY:** 1  
**PLACEMENT:** Inside of rear cover.



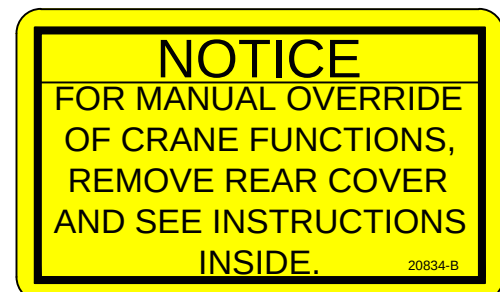
**PART NO.:** 19315-1  
**DECAL:** SHUT OFF (NON-PROPORTIONAL)  
**FUNCTION:** To show the operator how to  
 override master shut off valve.  
**QUANTITY:** 1  
**PLACEMENT:** Inside rear cover.



**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.



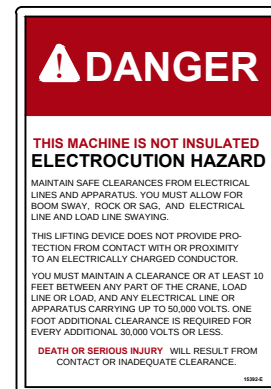
PART NO.: 15392

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.



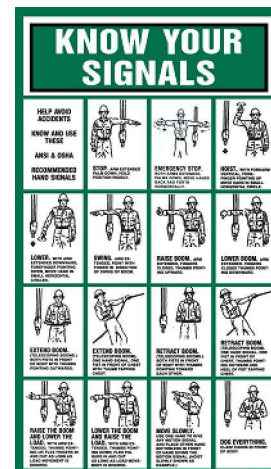
PART NO.: 22499

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.: 28523

DECAL: MODEL HT40KX

FUNCTION: Branding.

QUANTITY: 2

PLACEMENT: Boom.



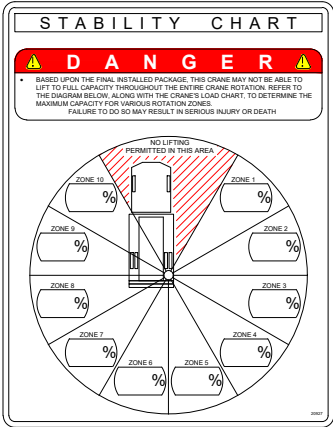
PART NO.: 20927

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  
HT40KX

DATE  
06-16-23  
SUPERSEDES  
-

SECTION  
C150  
28524

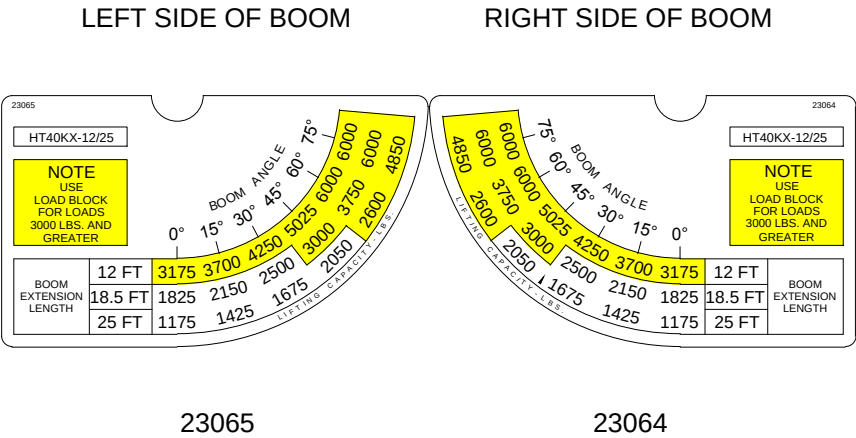
PART NO.: 23065 & 23064

DECAL: HT40-25' 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



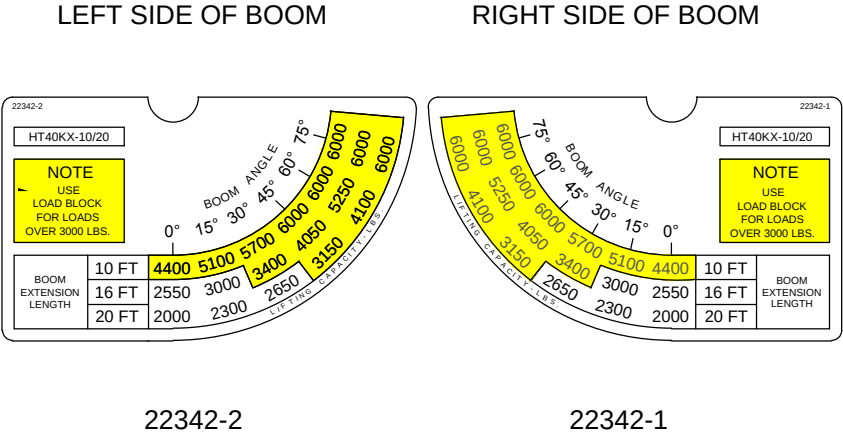
PART NO.: 22342-2 & 22342-1

DECAL: HT40-20' 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



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



# SECTION 200

# INSTALLATION



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

# CRANE INSTALLATION, PAGE 1

## HT40/50KX

### 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 HT40KX is 45,000 ft. lbs. and for the HT50KX is 55,000 ft. lbs.

The maximum vertical loads for the HT40/50KX are listed based on the boom length:

|                         | HT40KX |      | HT50KX |       |       |
|-------------------------|--------|------|--------|-------|-------|
| BOOM LENGTH (FT)        | 20'    | 25'  | 20'    | 25'   | 30'   |
| MAX VERTICAL LOAD (LBS) | 7900   | 8050 | 9900   | 10050 | 10250 |

### 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

HT40/50KX

DATE  
01-17-25B

SUPERSEDES  
08-15-24A

SECTION  
C200

26895

## CRANE INSTALLATION, PAGE 2

### HT40/50 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

| Average Climate  | Type of Oil     |
|------------------|-----------------|
| 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 | NON-PROPORTIONAL | PROPORTIONAL |
|-----------------|------------------|--------------|
| PRESSURE        | 3/8"             | 5/8"         |
| RETURN          | 1/2"             | 3/4"         |
| SUCTION         | 3/4"             | 1-1/4"       |

#### RESERVOIR

The PTO reservoir should have a capacity of 10 gallons (non-proportional) or 25 gallons (proportional) 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 2.5 GPM for the HT40 non-proportional, 12.0 GPM for the HT40 proportional, 3.0 GPM for the HT50 non-proportional, or 12.0 GPM for the HT50 proportional. These cranes' relief pressures are all 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. Operate the PTO system for about two (2) minutes per gallon of reservoir capacity (10 gallon reservoir = 20 minutes / 25 gallon = 50 minutes) to flush out the lines and filter all the fluid several 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    |
| HT40/50 SERIES CRANES |

|            |
|------------|
| DATE       |
| 05-10-21G  |
| SUPERSEDES |
| 07-31-15F  |

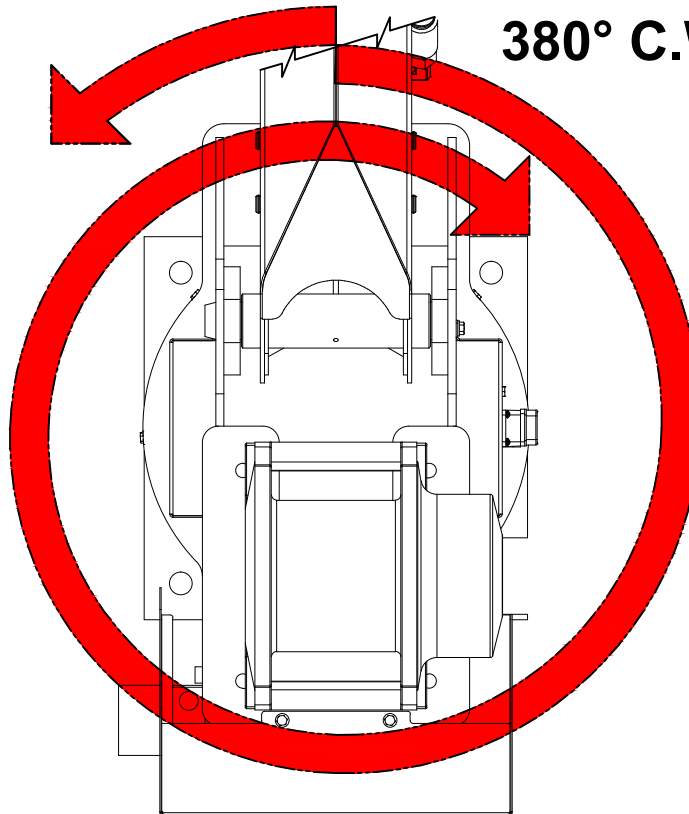
|         |
|---------|
| SECTION |
| C200    |
| 22173   |

# 400° ROTATION STOP LOCATION

Crane is shipped in "CURBSIDE" mounting configuration.

**20° C.C.W.**

**380° C.W.**



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
ROTATION STOP LOCATION

400° ROTATION CRANES (STD CONFIG)

DATE  
08-14-25

SUPERSEDES  
-

SECTION  
C200

23532

# STABILITY TEST - HT40-20' 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. Locate the Overload Pressure Switch at the base of the elevation cylinder
  - 5.1. Disconnect the black & white wires from the housing and then connect the black & white wires together to by-pass the Overload Pressure Switch for the stability test. **Note: The black & white wires MUST be reconnected to the Overload Pressure Switch after the stability test has been completed.**
6. Use a **test weight** weighing a **minimum** of **2353 lbs**, (includes load block weight of 51 lbs.) to a **maximum of 2500 lbs**.
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).
  - 9.1. Using the test weight, extend the boom slowly, until one of the two conditions occur:
    - 9.1.1. Full extension is reached - Mark the ZONE in question **100%**
    - 9.1.2. The truck becomes unstable i.e. a tire lifts off the ground
      - 9.1.2.1. Retract the boom until at least one tire on each corner of the truck is making contact with the ground
      - 9.1.2.2. Use the formula below to determine the allowable **% of Rated Capacity** for the ZONE in question:
10. Note: The "**Max Stable Reach in inches**" is measured from the **center of rotation** of the crane housing to the **lifting load hook**.
$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{247} \times 100$$
11. Record the **% of Rated Capacity** in the appropriate blank (region) on the Crane Stability page (ref. 20907) and decal.
12. Repeat Steps 7 through 12 for each ZONE on the stability page.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

STABILITY TEST

HT40-20' SERIES

DATE

03-01-23H

SUPERSEDES

11-24-21G

SECTION

C200

20906-40

# STABILITY TEST - HT40-25' 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. Locate the Overload Pressure Switch at the base of the elevation cylinder
  - 5.1. Disconnect the black & white wires from the housing and then connect the black & white wires together to by-pass the Overload Pressure Switch for the stability test. **Note: The black & white wires MUST be reconnected to the Overload Pressure Switch after the stability test has been completed.**
6. Use a **test weight** weighing a **minimum** of **1382 lbs**, (includes load block weight of **51 lbs.**) to a **maximum of 1450 lbs**.
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 two conditions occur:
  - 10.1. Full extension is reached - Mark the ZONE in question **100%**
  - 10.2. The truck becomes unstable i.e. a tire lifts off the ground
    - 10.2.1. Retract the boom until at least one tire on each corner of the truck is making contact with the ground
    - 10.2.2. 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**.

$$\% \text{ Rated Capacity} = \frac{\text{"Max Stable Reach" in inches}}{300} \times 100$$
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

HT40-25' SERIES

DATE

03-01-23D

SUPERSEDES

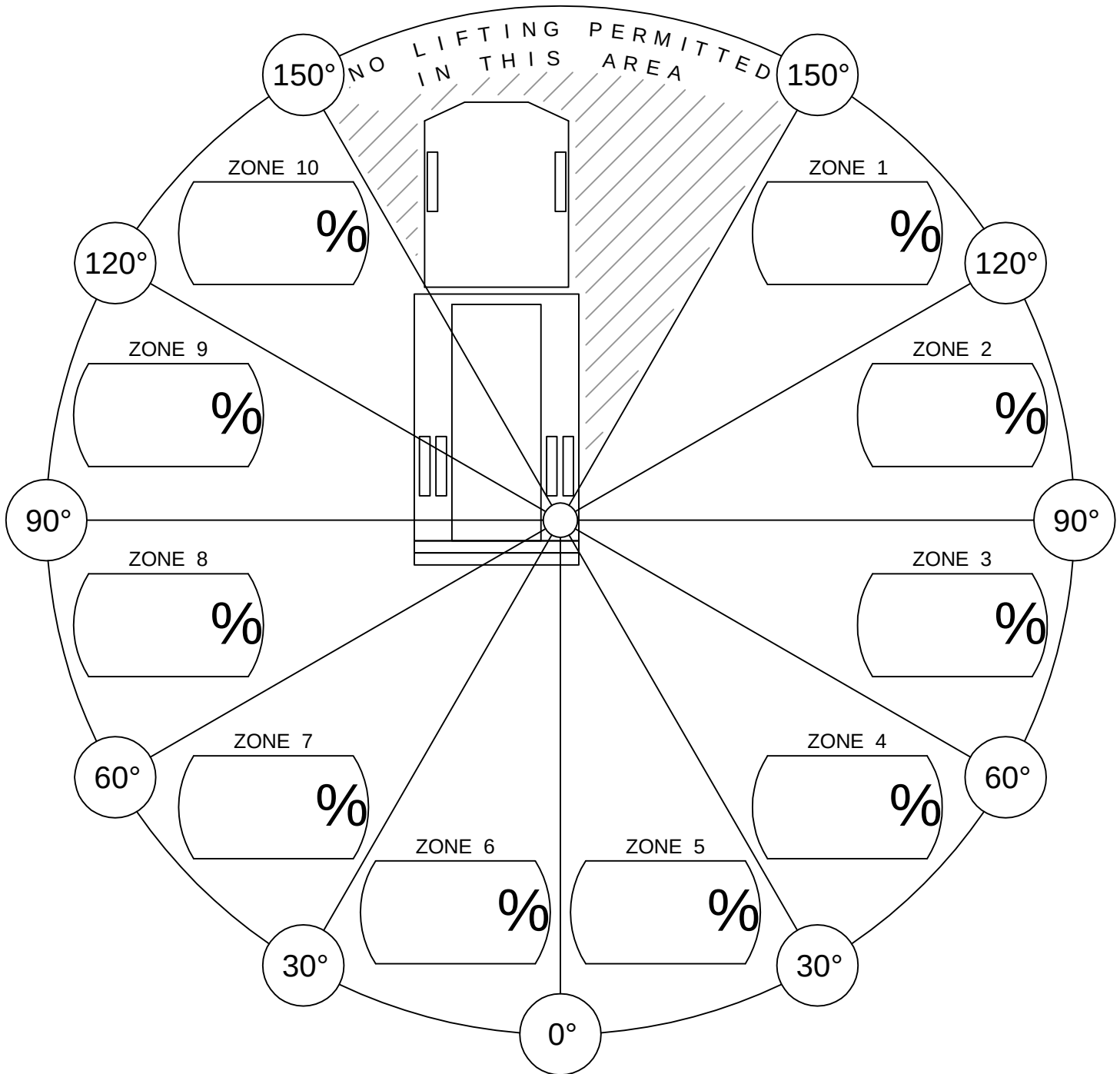
11-24-21C

SECTION

C200

20906-40B

# 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

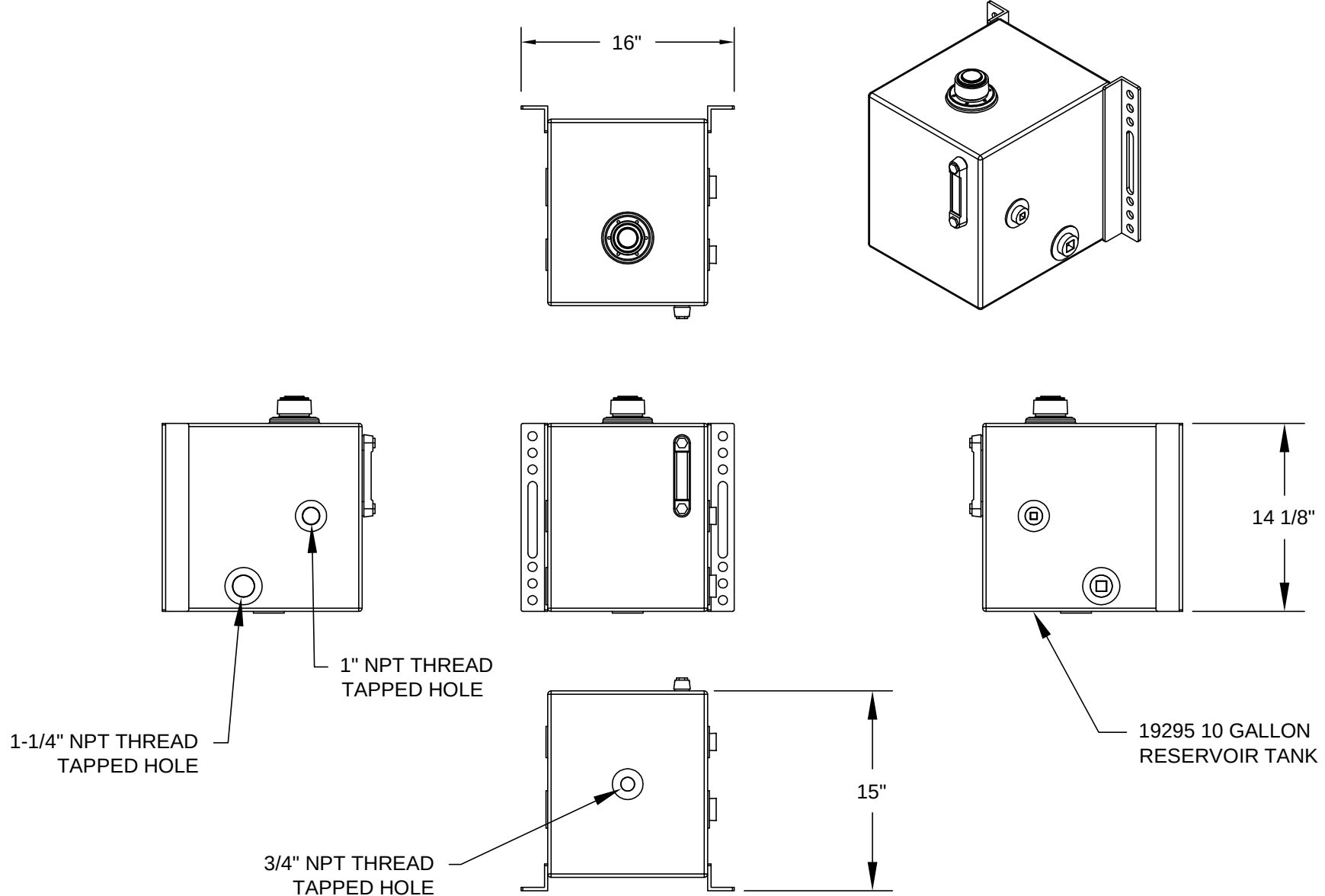
DATE  
05-11-17F

SUPERSEDES  
02-21-14E

SECTION  
C200

20907

# 19295; 10 GALLON HYDRAULIC TANK



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

10 GALLON HYDRAULIC TANK

VARIOUS APPLICATIONS

DATE

05-01-14A

SUPERSEDES

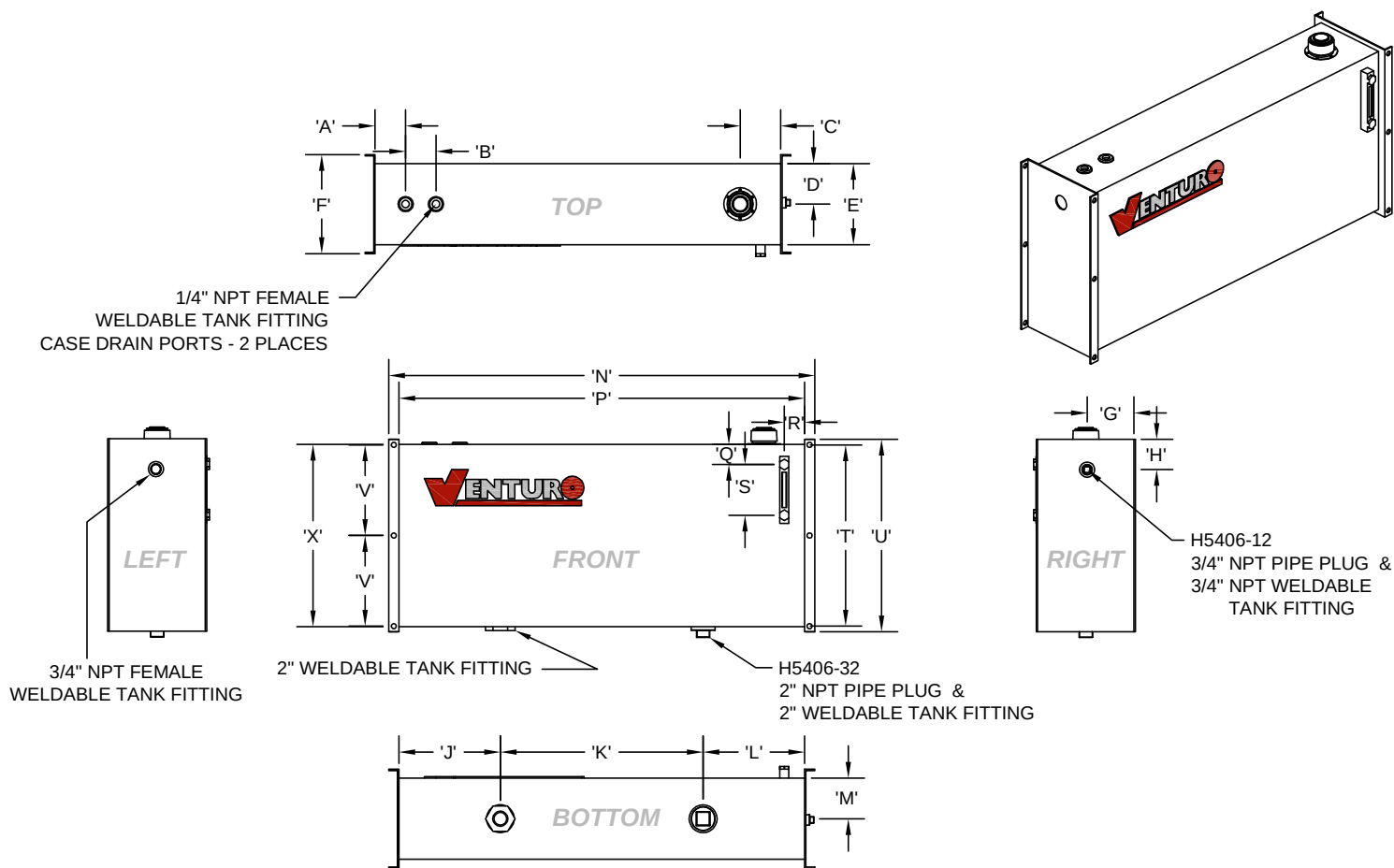
03-17-06

SECTION

-

22826





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"          |

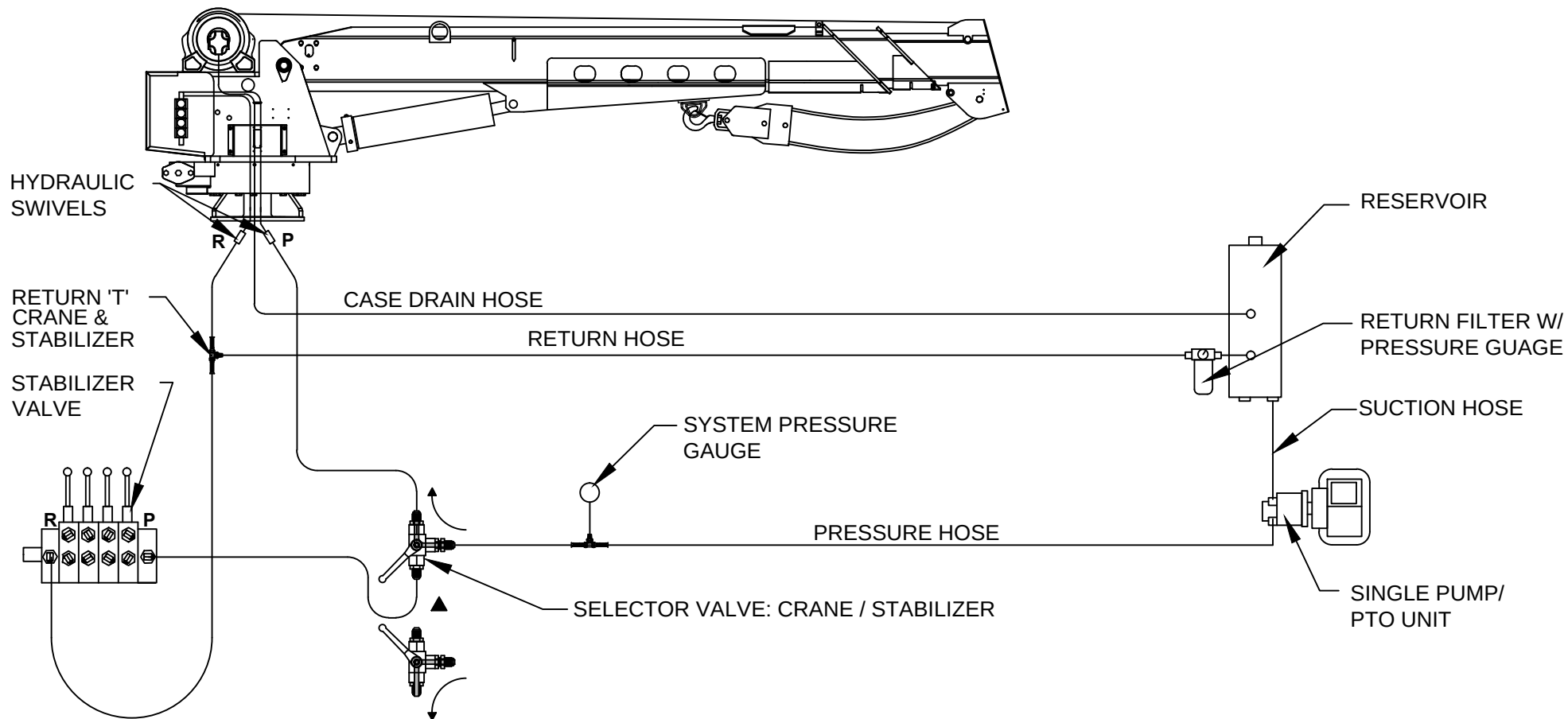
MEASUREMENTS INCLUDE MOUNTING APARATUSES



VENCO VENTURO INDUSTRIES LLC  
 CINCINNATI, OHIO

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

# 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

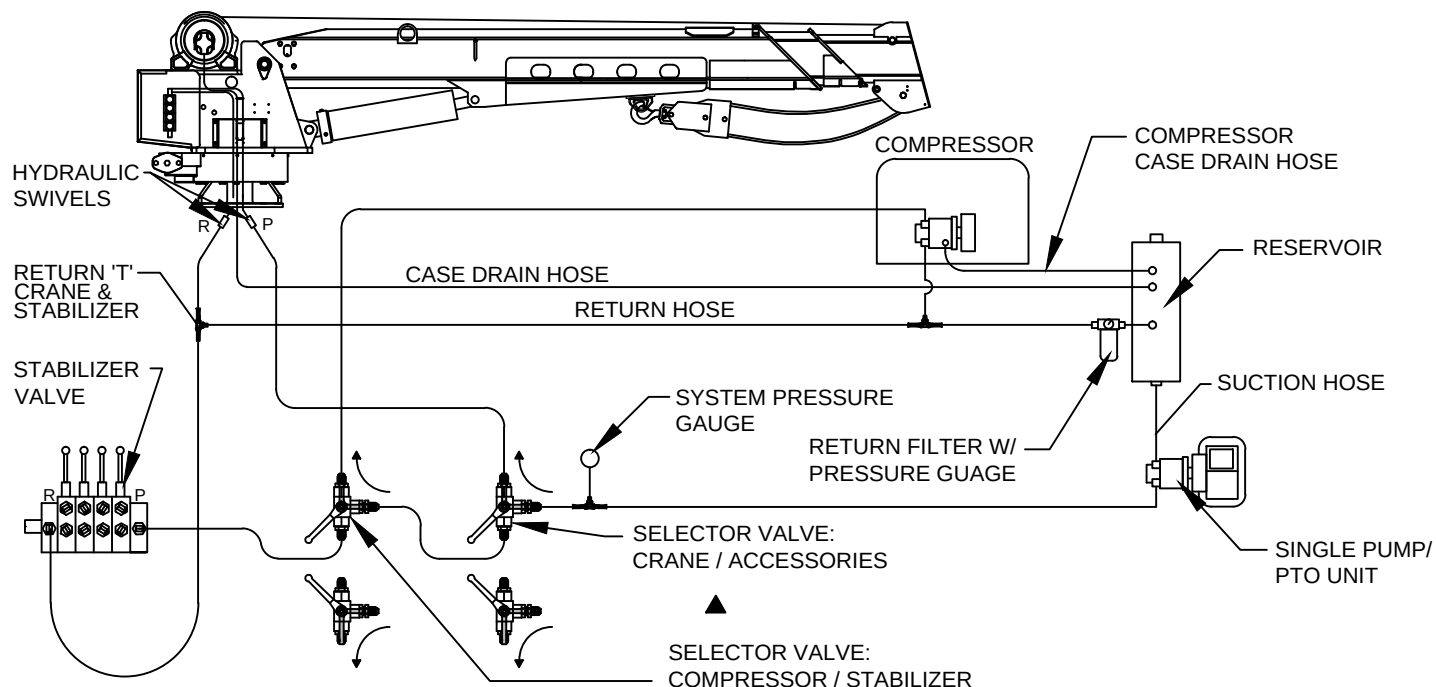
02-21-14B

SECTION

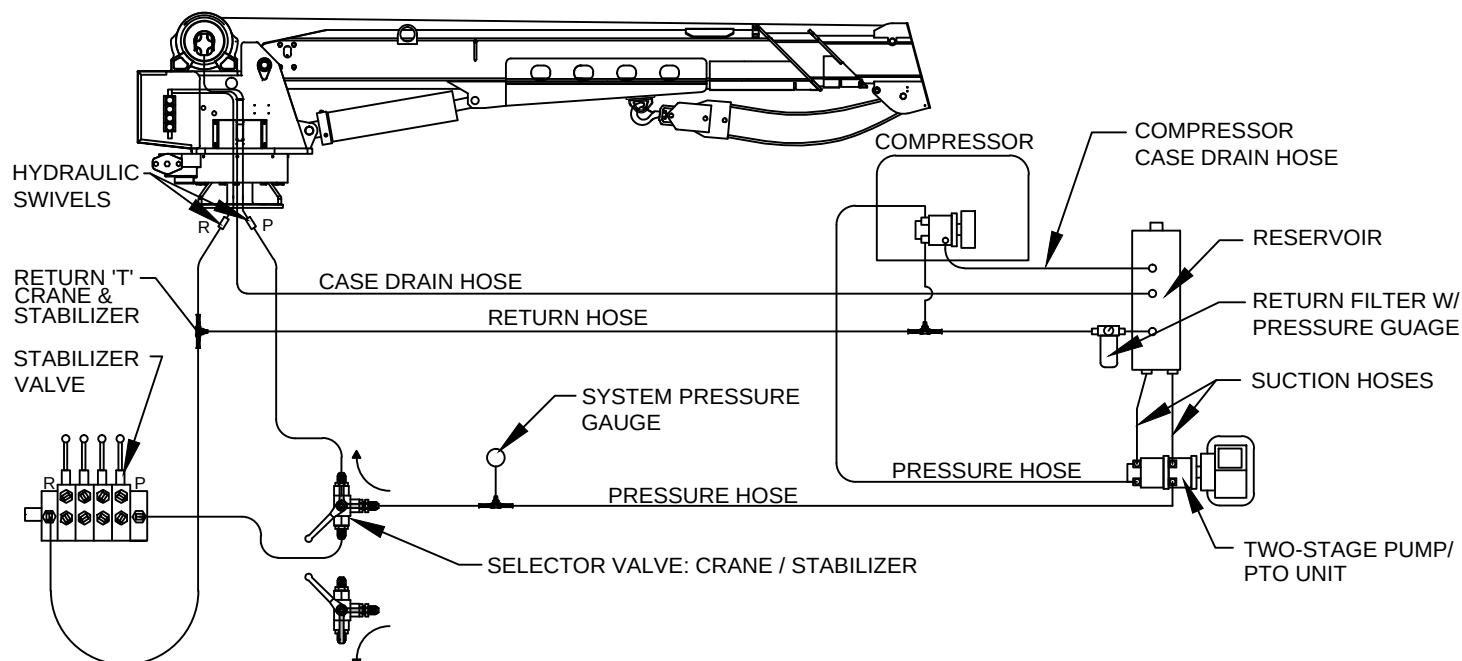
C200

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  
CNNCTN GDE, PAGE 2/2

HT CRANES

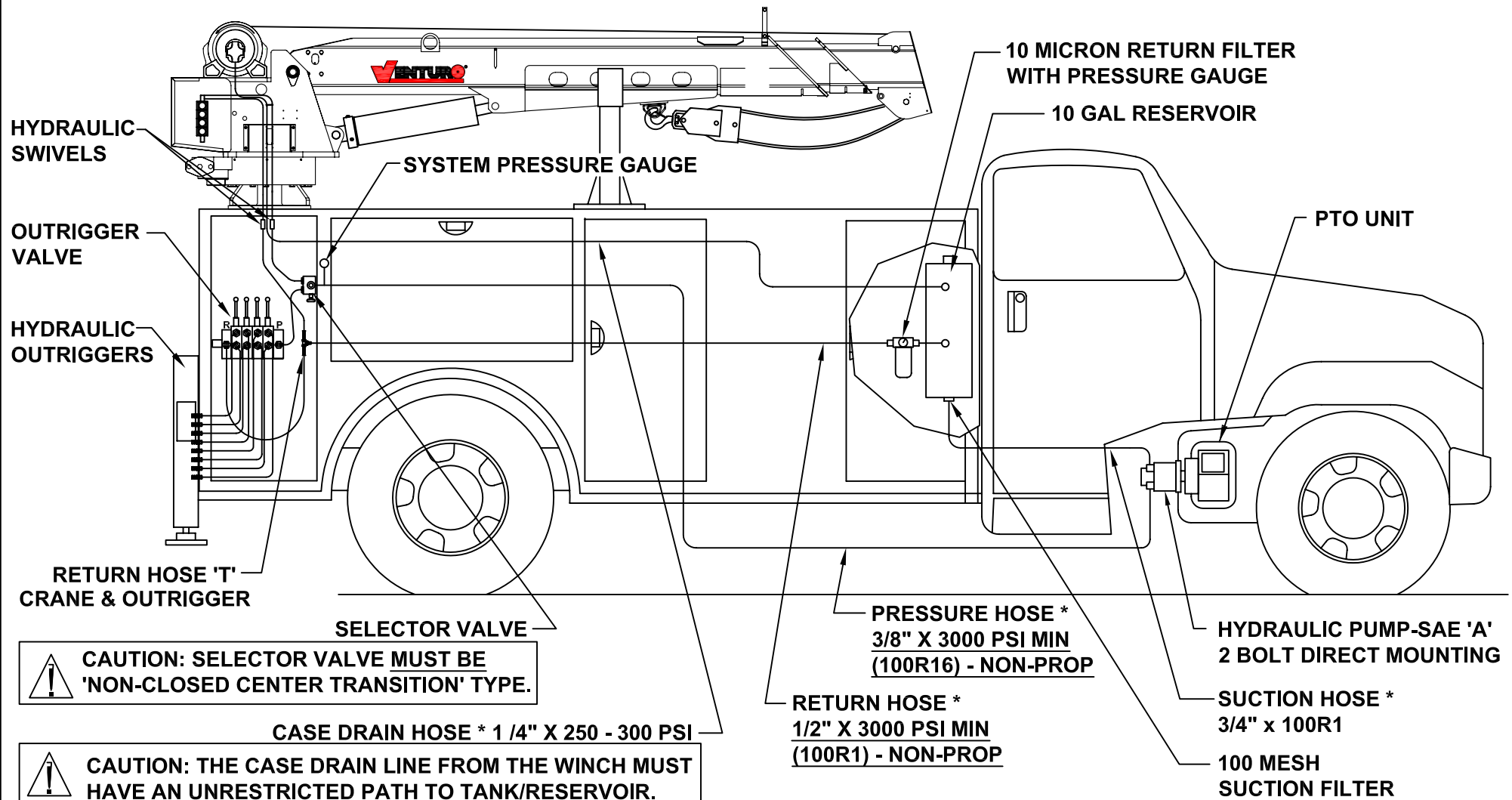
DATE  
08-08-23C

SUPERSEDES  
02-21-14B

SECTION  
C200

23014

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



**HYDRAULIC RECOMMENDATIONS :**  
HT40/50KX STANDARD, 2.6 TO 3.0 GPM @ 3000 PSI (19294-2.64 PTO PACKAGE)

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



MANUFACTURING, INC.  
CINCINNATI, OHIO

TITLE  
**HYDRAULIC COMPONENT INSTALLATION**

**PTO INST - HT40/50 (NON-PROPORTIONAL)**

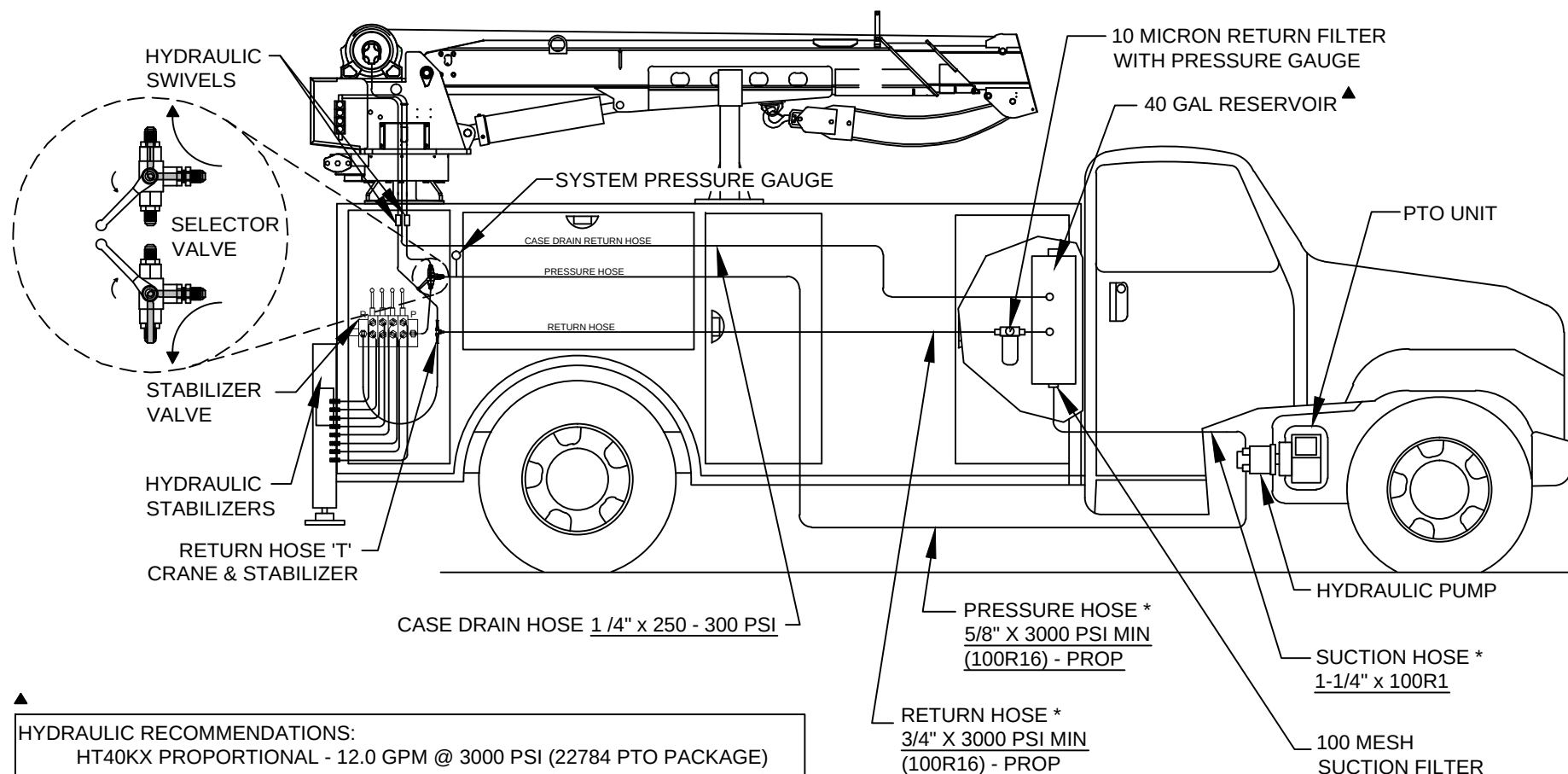
DATE  
**7-13-10**

SUPERSEDES

-

SECTION  
**C200**

**22980**



#### 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

SUPERSEDES

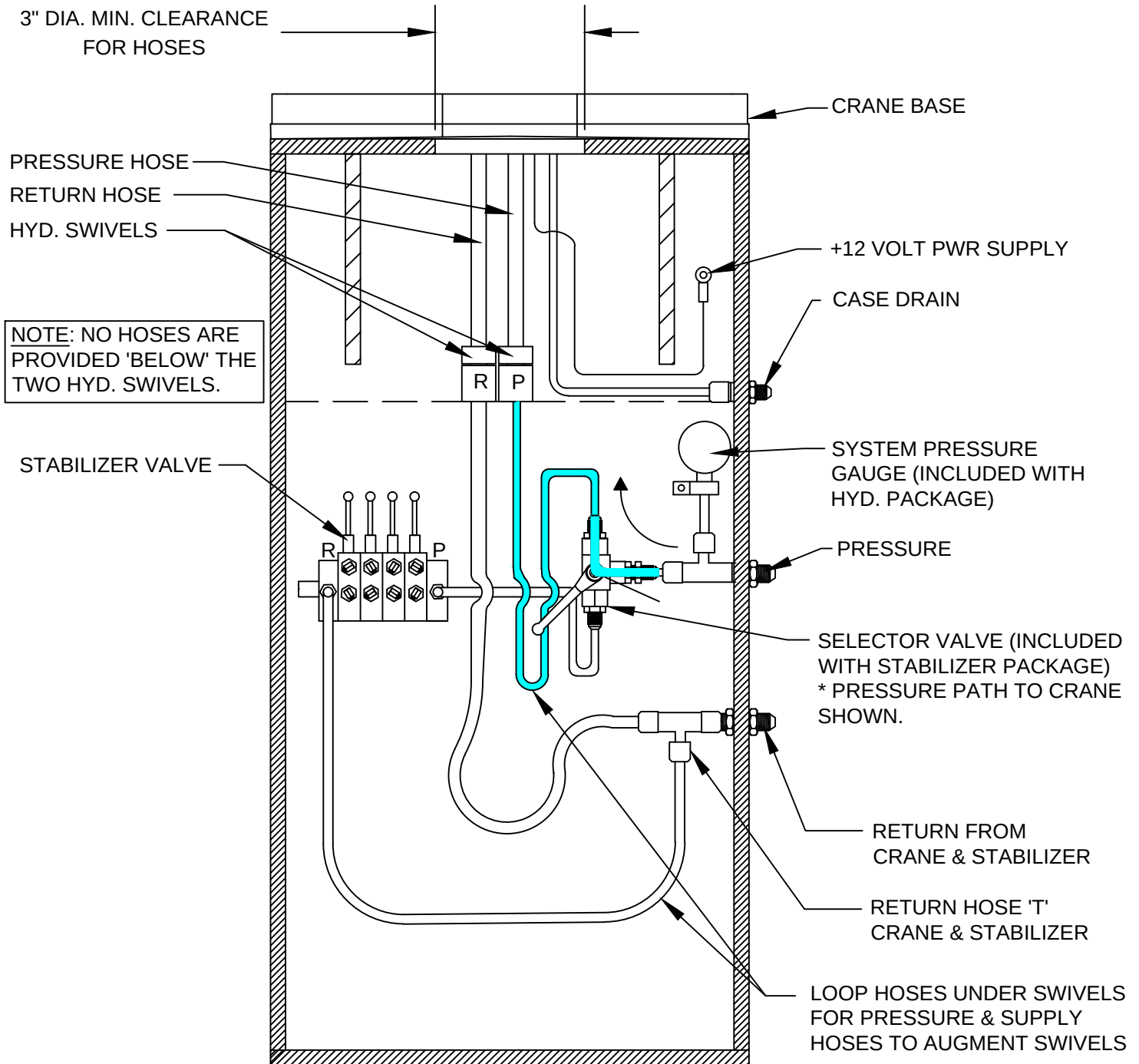
08-08-23G

SECTION

C200

22883

# 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

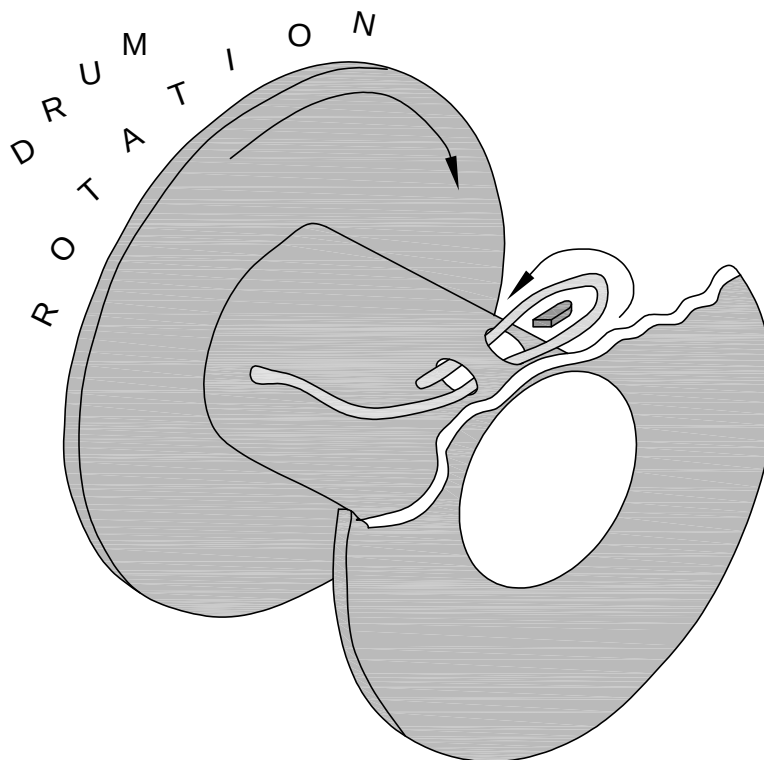


FIG. 1

- 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                    | DATE                    | SECTION |
|--------------------------|-------------------------|---------|
| MAINTENANCE INFO         | 06-11-24E               | C300    |
| HT25/30/40/50/60/66KX(P) | SUPERSEDES<br>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**

# CRANE OPERATION AND MAINTENANCE INSTRUCTIONS

## HT40/50KX

### CONTROL FUNCTIONS

EMERGENCY STOP - Push to stop crane. Removes pendant voltage supply.

POWER - Supplies voltage to pendant.

HORN - Activates audible alert.

WINCH "UP" and "DOWN" - Raises and lowers the load with the winch.

BOOM "UP" and "DOWN" - Increases and decreases the boom elevation angle.

BOOM "OUT" and "IN" - Extends and retracts the boom.

ROTATION "L" and "R" - Rotates the crane left and right.

TRIGGER (Proportional Systems Only) - Varies the flow rate delivered to the crane valve. The farther 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.

### 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 & MAINT

HT40/50KX

DATE  
06-18-24A

SUPERSEDES  
04-23-24

SECTION  
C200

26935

## 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

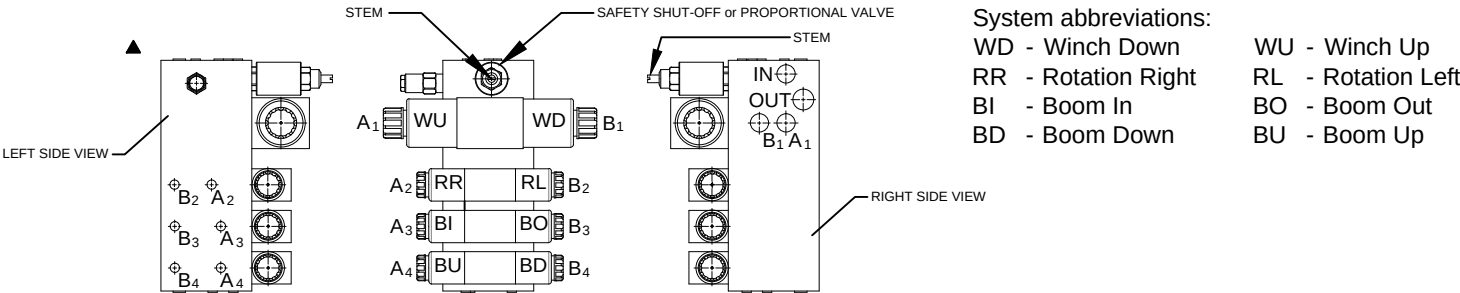
23755

# 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.



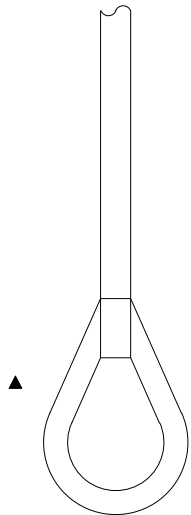
VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

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

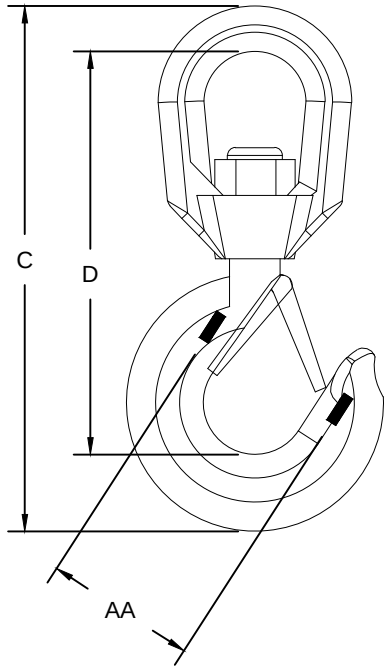
WIRE ROPE ASSEMBLY

LOAD BLOCK ASSEMBLY

WIRE ROPE:  
3/8" DIA, 100' OR 125' LONG  
GAC 7X19 XIP-RHRL-IWRC, SB 14,400 LBS



TERMINATES IN THIMBLE  
NO HOOK



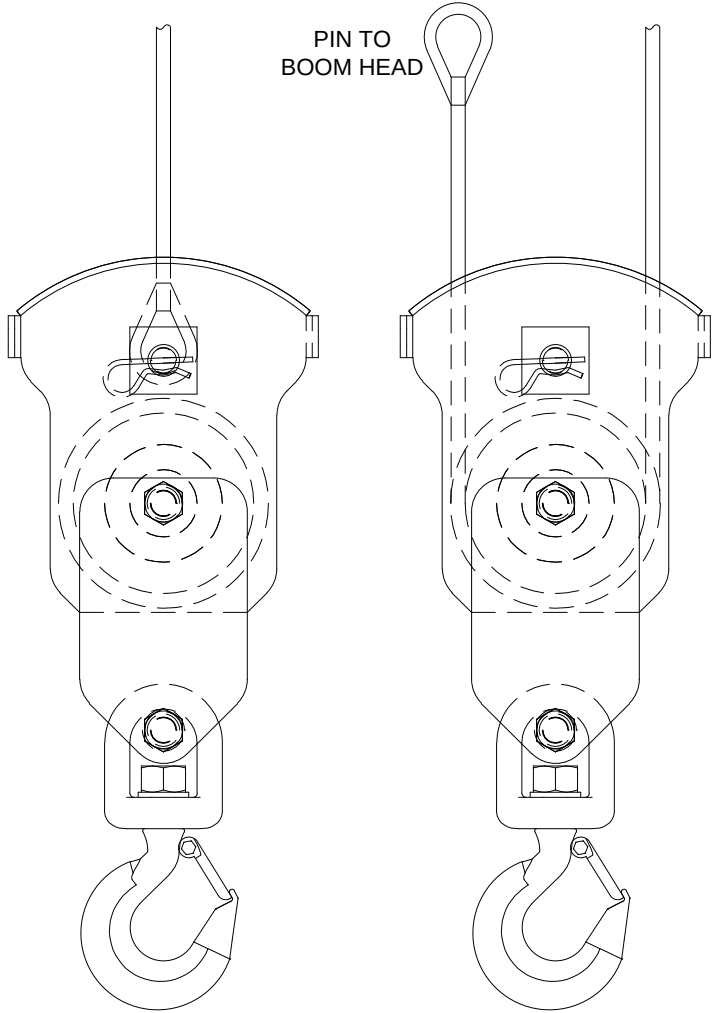
LOAD BLOCK SWIVEL HOOK:  
RATING: 5 TONNE (11,023 LBS)

DIMENSIONS:

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

SINGLE  
LINE

TWO-PART  
LINE



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

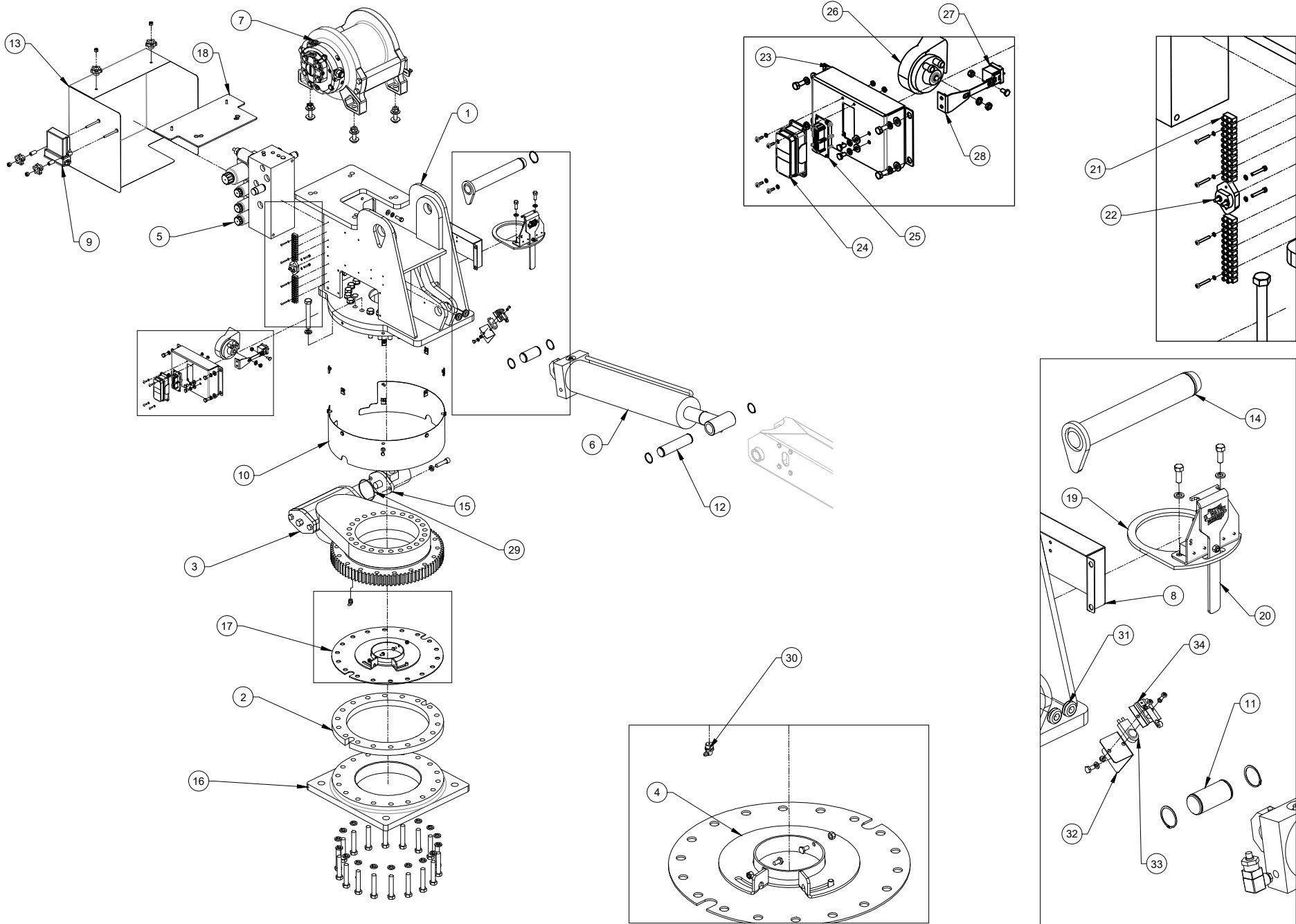
23231

# SECTION 400

## REPLACEMENT PARTS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO



REFERENCE 26891 OR 26881 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
**REPLACEMENT PARTS DRWNG - MECHANISM**

HT40/50 SERIES

DATE  
05-25-23

SUPERSEDES  
-

SECTION  
**C400**

**26890**



# REPLACEMENT PARTS LIST - HT40 SERIES; MECHANISM

| ITEM | QTY. |    | PART NUMBER     | DESCRIPTION                         |
|------|------|----|-----------------|-------------------------------------|
|      | P    | NP |                 |                                     |
| ▲ 1  | 1    | 1  | 26583           | WELDED ASSEMBLY; HOUSING, MECHANISM |
| 2    | 1    | 1  | 23662           | SPACER PLATE                        |
| 3    | 1    | 1  | 22704           | SLEWING RING                        |
| ▲ 4  | 1    | 1  | 23666           | STOP DISK                           |
| ▲ 5  | 1    | -  | 22736H-3        | HYDRAULIC VALVE MANIFOLD, PROP      |
| 5    | -    | 1  | 22501-0-225-225 | HYDRAULIC VALVE MANIFOLD, NON PROP  |
| 6    | 1    | 1  | 21747           | ELEVATION CYLINDER                  |
| 7    | 1    | -  | 22829           | HYDRAULIC WINCH, PROP               |
| 7    | -    | 1  | 22828           | HYDRAULIC WINCH, NON PROP           |
| 8    | 1    | 1  | 22715-1         | HOUSING SIDE COVER                  |
| ▲ 9  | 1    | 1  | 21986-HT        | RADIO REMOTE SYSTEM (OPTIONAL)      |
| 10   | 1    | 1  | 23644           | SLEWING RING COVER                  |
| 11   | 1    | 1  | 22256           | ELEVATION CYLINDER PIN - INBOARD    |
| 12   | 1    | 1  | 22257           | ELEVATION CYLINDER PIN - OUTBOARD   |
| 13   | 1    | 1  | 22842           | REAR COVER                          |
| 14   | 1    | 1  | 22721           | PIVOT PIN - MAIN BOOM PIVOT         |
| ▲ 15 | 1    | 1  | 27276           | HYDRAULIC ROTATION MOTOR            |
| 16   | 1    | 1  | 26606           | MACHINED BASE                       |
| ▲ 17 | 1    | 1  | 23626           | SLIPPER PLATE WELD                  |
| 18   | 1    | 1  | 28319           | REAR COVER MOUNTING PLATE WELDEMENT |
| 19   | 1    | 1  | 23680           | HOUSING WATER DAM                   |
| 20   | 1    | 1  | 28474           | ELECTRIC ROTATION STOP ASSEMBLY     |

| ITEM | QTY. |    | PART NUMBER         | DESCRIPTION                   |
|------|------|----|---------------------|-------------------------------|
|      | P    | NP |                     |                               |
| 21   | 1    | 1  | 19187-12            | TERMINAL STRIP; 12 SECTIONS   |
| 22   | 1    | 1  | 15683-20A           | CIRCUIT BREAKER; 20A          |
| 23   | 1    | 1  | 22715-2             | HOUSING SIDE COVER            |
| 24   | 1    | 1  | 22481               | SOCKET CASE W/ HOOD; 16-PIN   |
| 25   | 1    | 1  | 22482               | SOCKET; 16-PIN FEMALE INSERT  |
| 26   | 1    | 1  | 21948               | HORN                          |
| 27   | 1    | 1  | 22739               | HIGH CAPACITY RELAY           |
| 28   | 1    | 1  | 22000               | BRACKET; HORN                 |
| 29   | 1    | 1  | OR-152-5            | O-RING; ROTATION MOTOR        |
| 30   | 1    | 1  | IZERK-013-27 NPT-90 | FITTING; GREASE, 90°          |
| ▲ 31 | 2    | 2  | 26586               | GROMMET - RUBBER              |
| 32   | 1    | 1  | 20497               | BRACKET; SWITCH               |
| 33   | 1    | 1  | 19918               | SWITCH; BOOM TOP POSITION     |
| 34   | 1    | 1  | 19917               | BRACKET; BOOM SHUT-OFF SWITCH |
| 35   |      | -  |                     |                               |
| 36   |      | -  |                     |                               |
| 37   |      | -  |                     |                               |
| 38   |      | -  |                     |                               |
| 39   |      | -  |                     |                               |
| 40   |      | -  |                     |                               |
| 41   |      | -  |                     |                               |
| 42   |      | -  |                     |                               |

REFERENCE 26890 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST - MECHANISM

HT40 SERIES (NON-VLC) ▲

DATE

07-10-25A

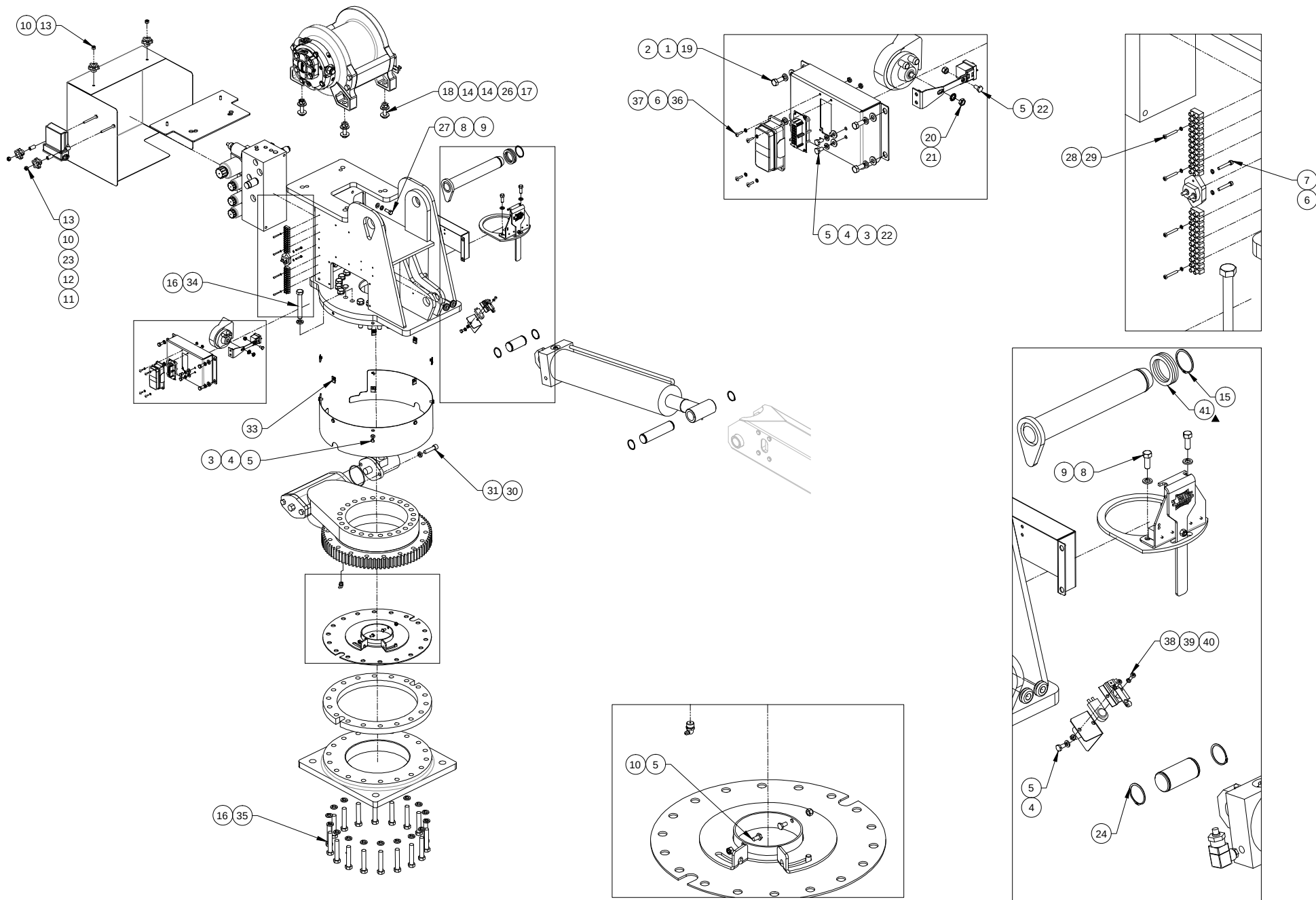
SUPERSEDES

05-25-23

SECTION

C400

26891



REFERENCE 26906 FOR REPLACEMENT PARTS LIST



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

RPLCMNT FASTENERS DRWNG - MECHANISM

HT40/50 SERIES

DATE

03-29-24A

SUPERSEDES

05-30-23

SECTION

C400

26905

# RPLCMNT FASTENERS LIST - HT40/50KX 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    | 12   | !LWSH-025S      | LOCK WASHER; 1/4", S/S                |
| 5    | 11   | IHHCS02520050S  | HHCS; 1/4-20 x 1/2" LG, S/S           |
| 6    | 6    | !LWSH-#08S      | LOCK WASHER; #8, S/S                  |
| 7    | 2    | ISHCS#0832100S  | SHCS; #8-32 X 1", S/S                 |
| 8    | 4    | !LWSH-038       | LOCK WASHER; 3/8", ZINC-PLTD          |
| 9    | 4    | IHHCS03816100   | HHCS; 3/8-16 X 1", ZINC-PLTD          |
| 10   | 4    | 28327           | KNOB, HAND, 5-POINT                   |
| 11   | 2    | IHHCS02520275   | 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-050       | FLAT WASHER; 1/2", GR. 8              |
| 15   | 1    | ISRNG-175       | SNAP RING; 1-3/4", ZINC-PLTD          |
| 16   | 40   | !LWSH-063       | LOCK WASHER; 5/8", GR. 5, ZINC        |
| 17   | 4    | !HNUT-05013-8   | HEX NUT; 1/2-13, GR. 8                |
| 18   | 2    | !HHCS05013225-8 | HHCS; 1/2-13 X 2-1/4" 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              |
| 21   | 1    | !HNUT-03118     | HEX NUT; 5/16-18, ZINC                |

| ITEM | QTY. | PART NUMBER     | DESCRIPTION                            |
|------|------|-----------------|----------------------------------------|
| 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   | -    | -               | -                                      |
| 26   | 4    | !LWSH-050       | LOCK WASHER; 1/2", 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   | -    | -               | -                                      |
| 33   | 5    | !JNUT-02520-LKG | U-NUT 1/4-20, LOCKING TYPE             |
| 34   | 20   | !HHCS06311450   | HHCS; 5/8-11 x 4.5" LG, GR. 5, ZINC    |
| 35   | 20   | !HHCS06311350   | HHCS; 5/8-11 x 3.5" LG, GR. 8, ZINC    |
| 36   | 4    | !SHPMS#0832050S | SLOT-HD PMS; #8-32 x 1/2", S/S         |
| 37   | 4    | !HNUT-#0832S    | HEX NUT; #08-32, S/S                   |
| 38   | 2    | !PHPMS#1024050S | PHILIPS-HD PMS; #10-24 x 1/2", S/S     |
| 39   | 2    | !LWSH-#10S      | LOCK WASHER; #10, S/S                  |
| 40   | 2    | !HNUT-#1024S    | HEX NUT; #10-24, S/S                   |
| 41   | 2    | 26609           | SHIM - STAINLESS STEEL                 |

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

REFERENCE 26905 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

RPLCMNT FASTENERS LIST - MECHANISM

HT40/50 SERIES (NON-VLC) ▲

DATE

07-10-25B

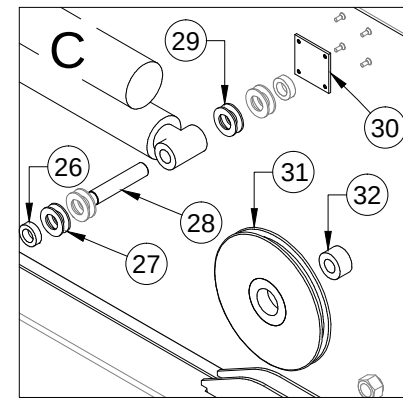
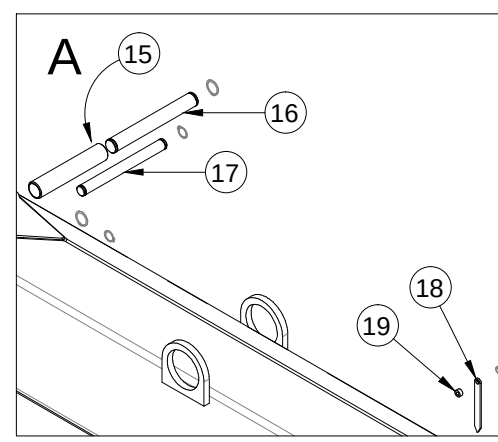
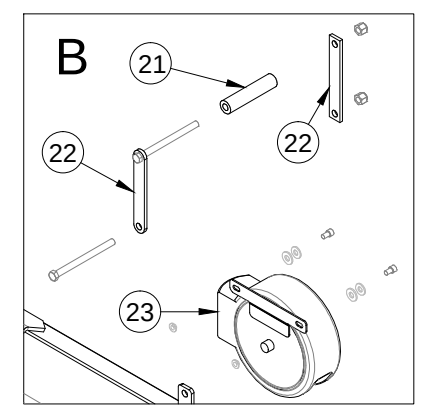
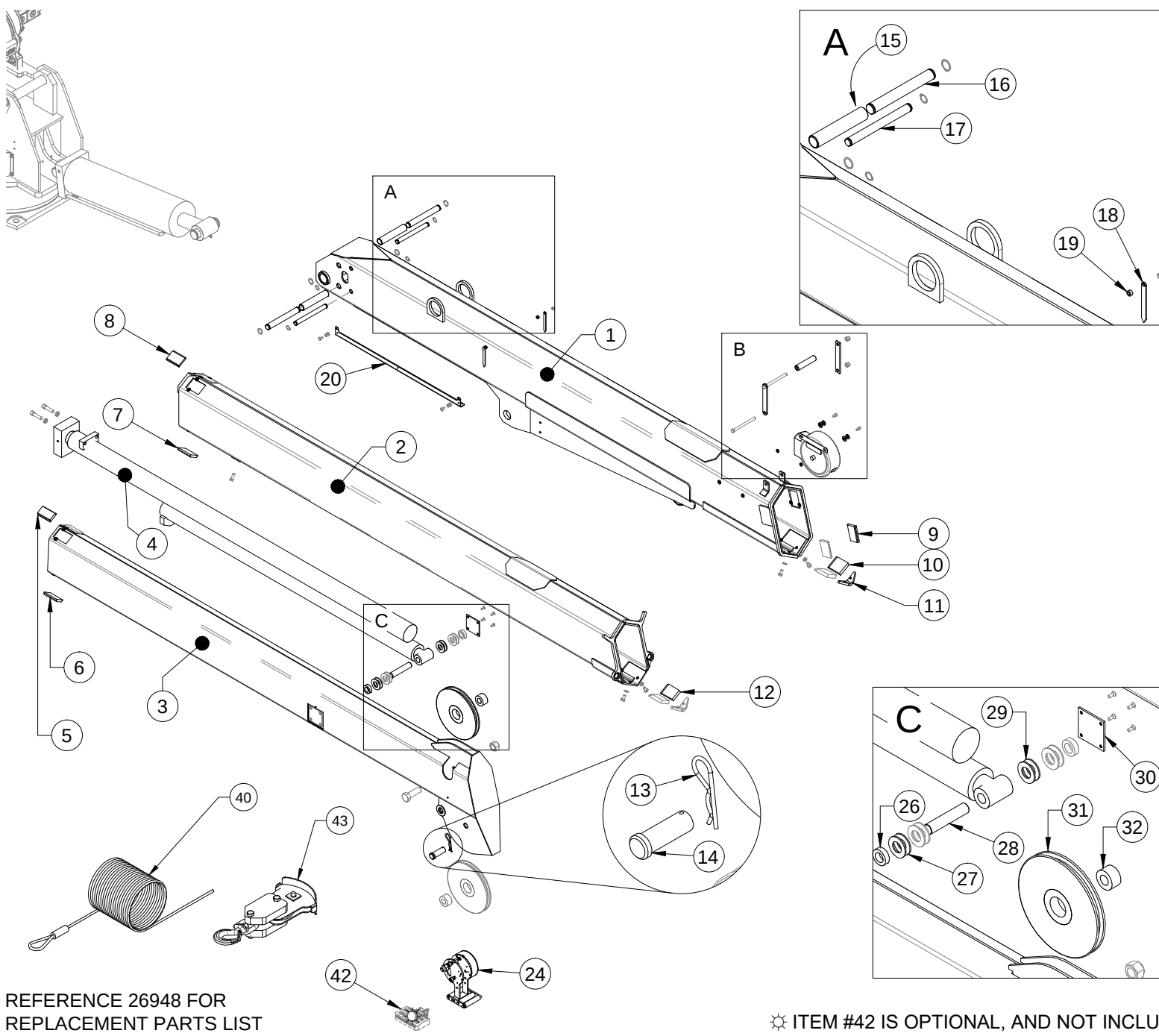
SUPERSEDES

03-29-24A

SECTION

C400

26906



REFERENCE 26948 FOR  
REPLACEMENT PARTS LIST

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



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

|                                             |                  |                 |
|---------------------------------------------|------------------|-----------------|
| TITLE<br>RPLCMNT PARTS DRAWING - 26595 BOOM | DATE<br>06-11-24 | SECTION<br>C400 |
| HT40/45/50 - 20'                            | SUPERSEDES<br>-  | 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

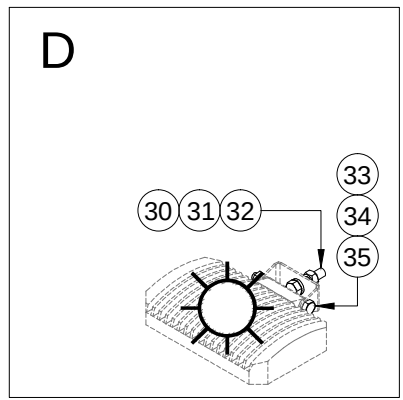
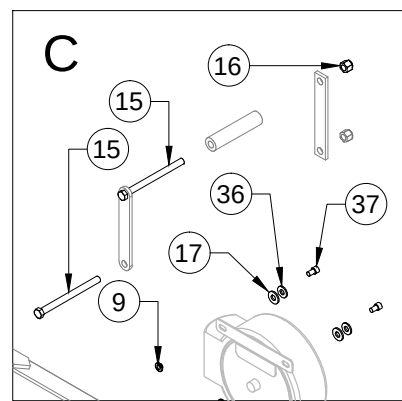
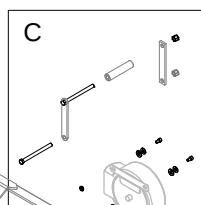
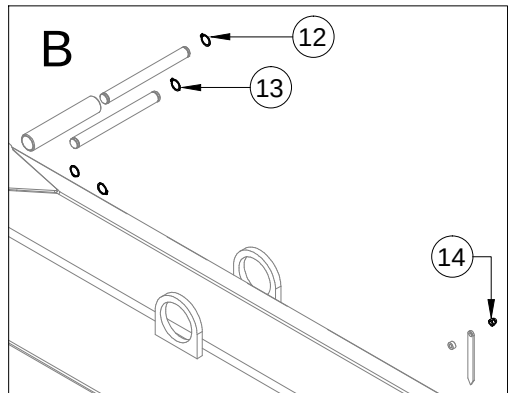
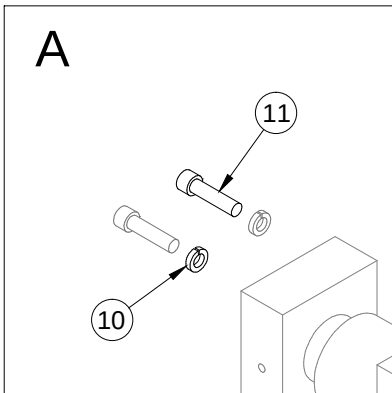
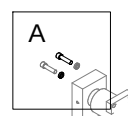
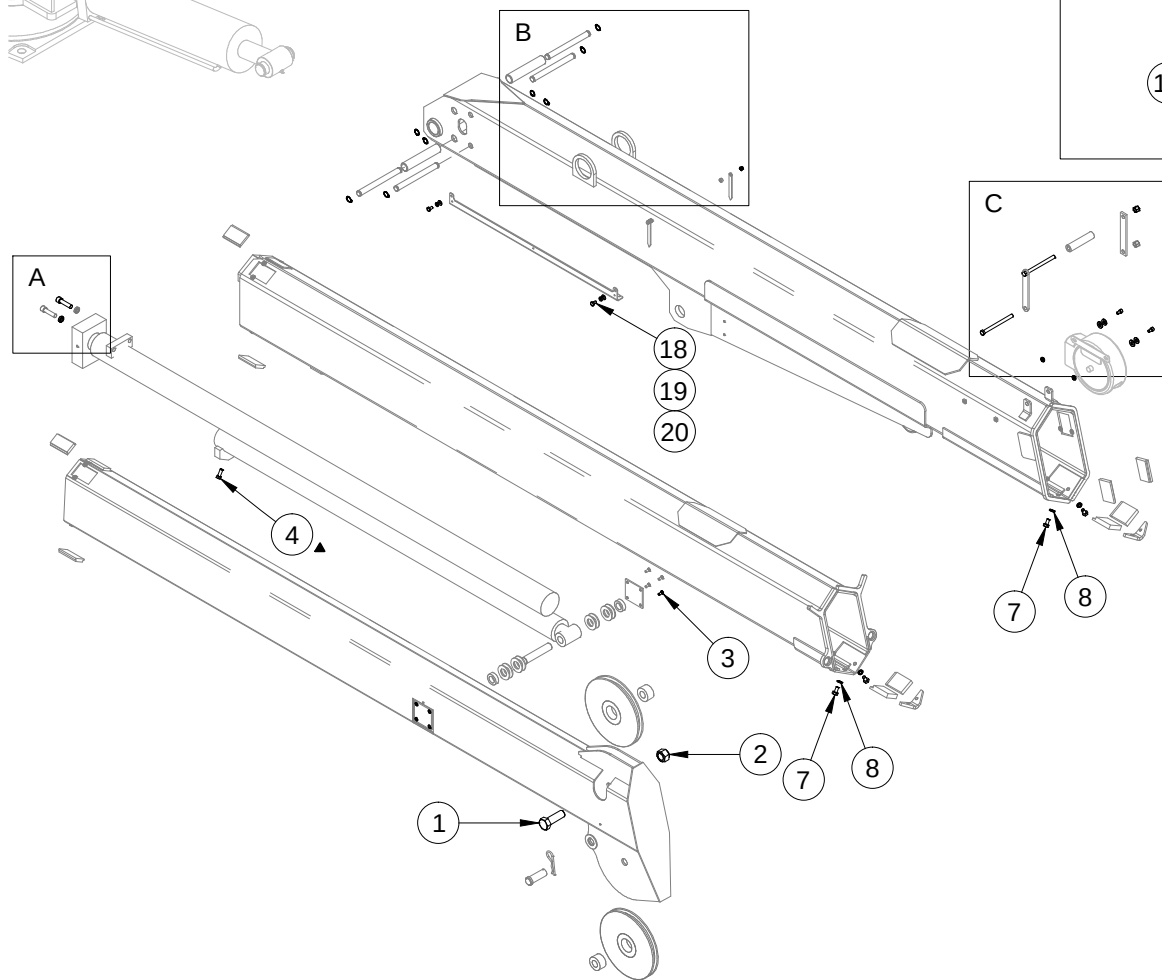
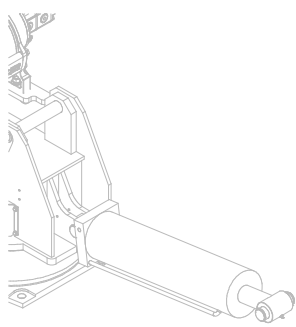
SUPERSEDES

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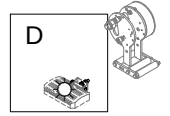
SECTION

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

SUPERSEDES  
06-11-24

SECTION  
C400

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

REPLCMNT FASTENERS LIST - 26595 BOOM

HT40/45/50/60 - 20'

DATE

11-18-24A

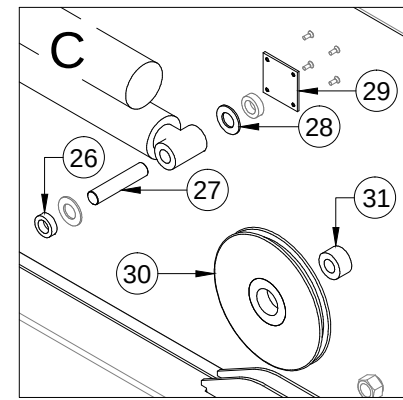
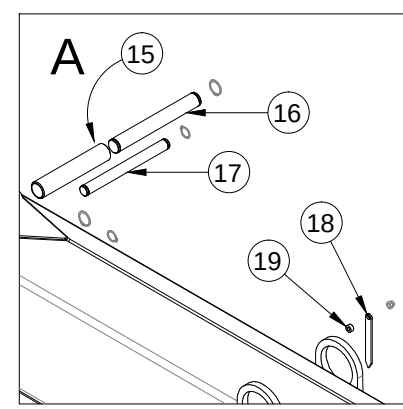
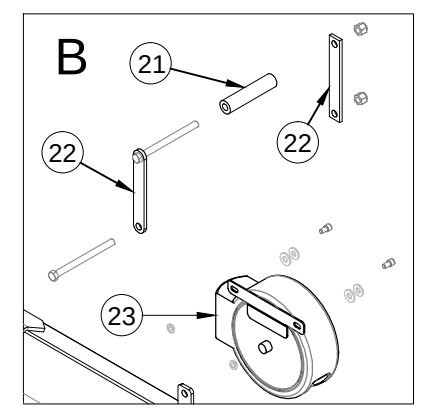
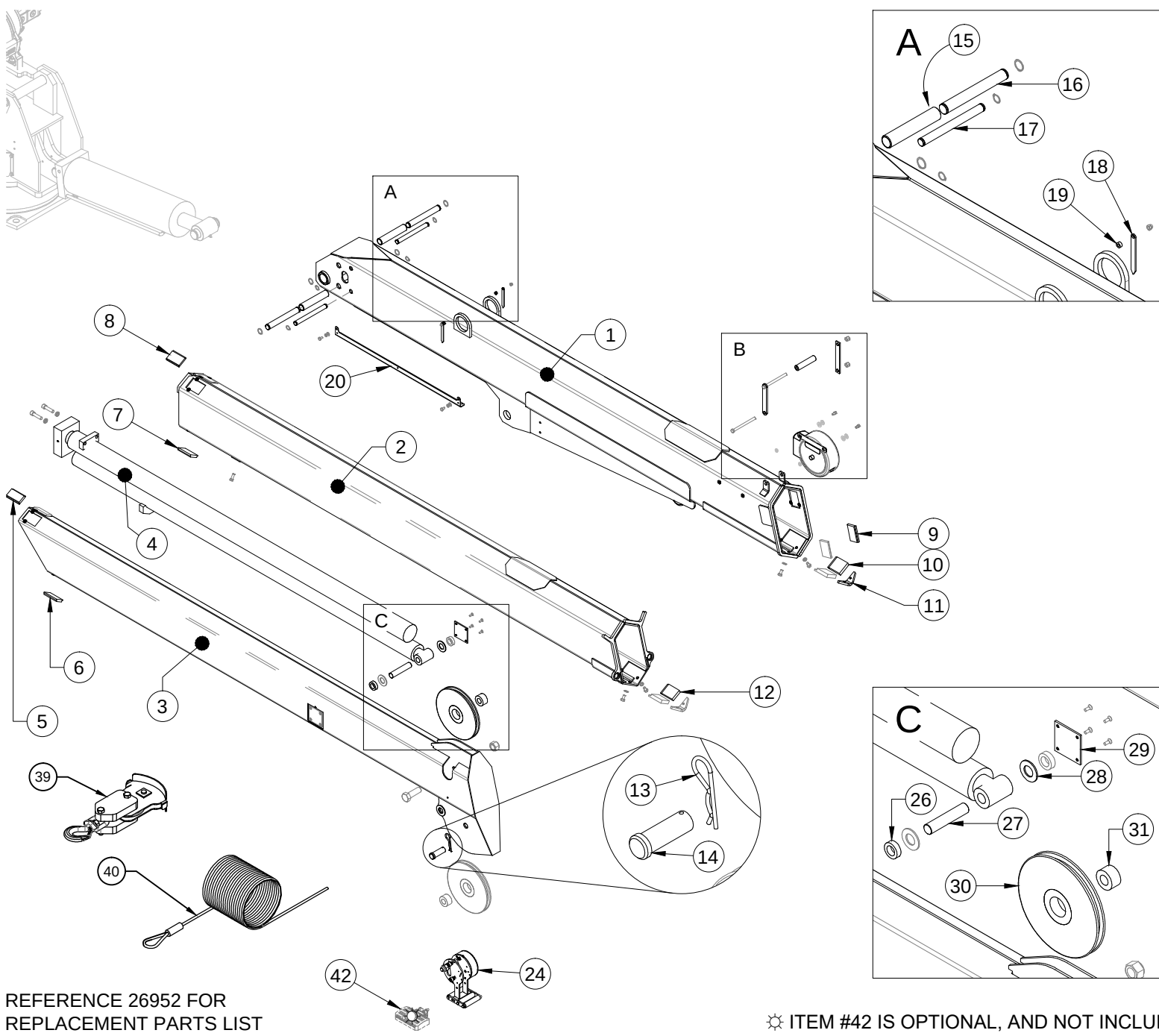
SUPERSEDES

06-11-24

SECTION

C400

26950



REFERENCE 26952 FOR  
REPLACEMENT PARTS LIST

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



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

|                                             |                        |                 |
|---------------------------------------------|------------------------|-----------------|
| TITLE<br>RPLCMNT PARTS DRAWING - 26593 BOOM | DATE<br>08-28-24A      | SECTION<br>C400 |
| HT40/45/50/60 - 25'                         | SUPERSEDES<br>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

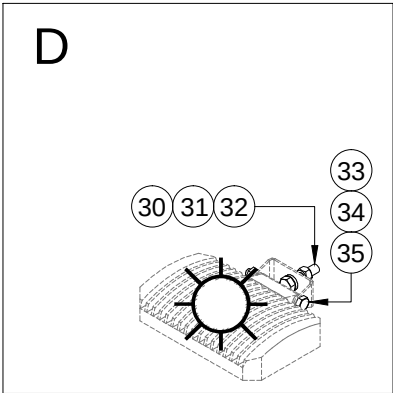
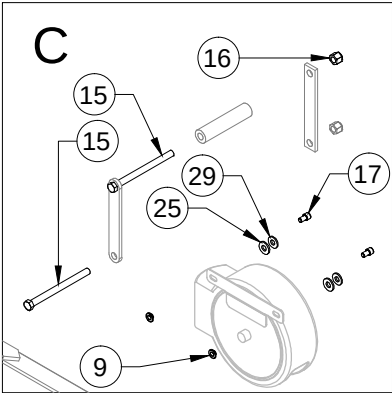
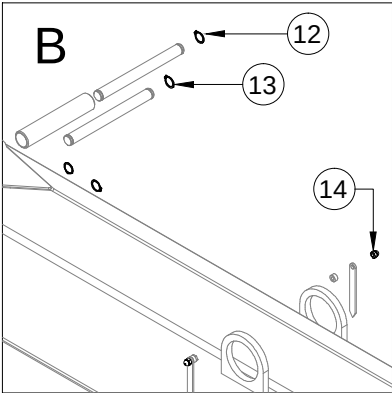
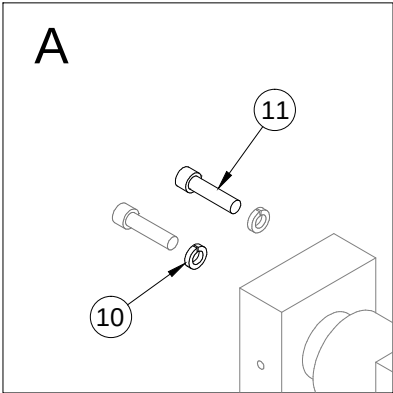
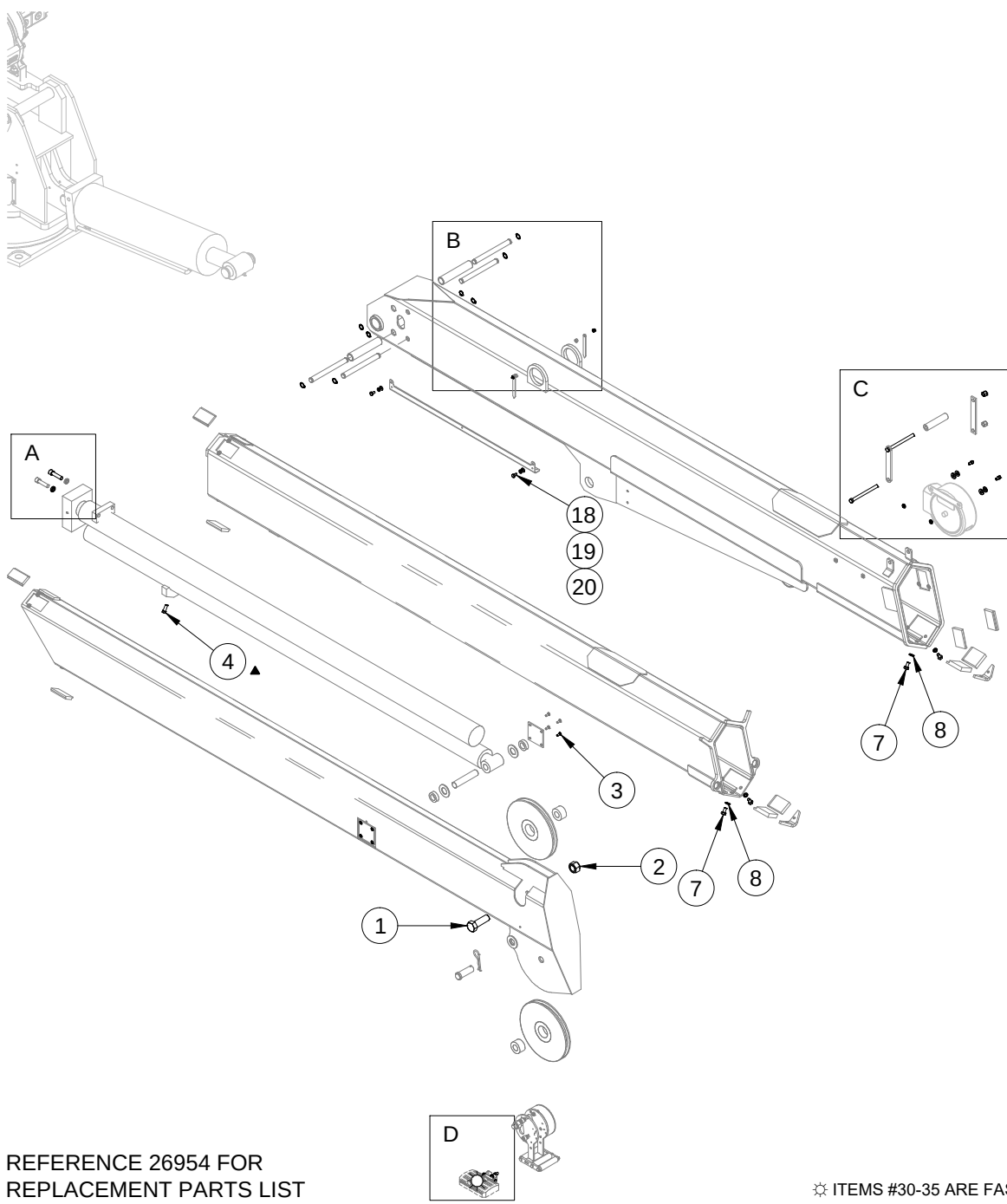
SUPERSEDES

06-11-24

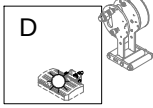
SECTION

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

HT40/45/50/60 - 25'

DATE

11-25-24B

SUPERSEDES

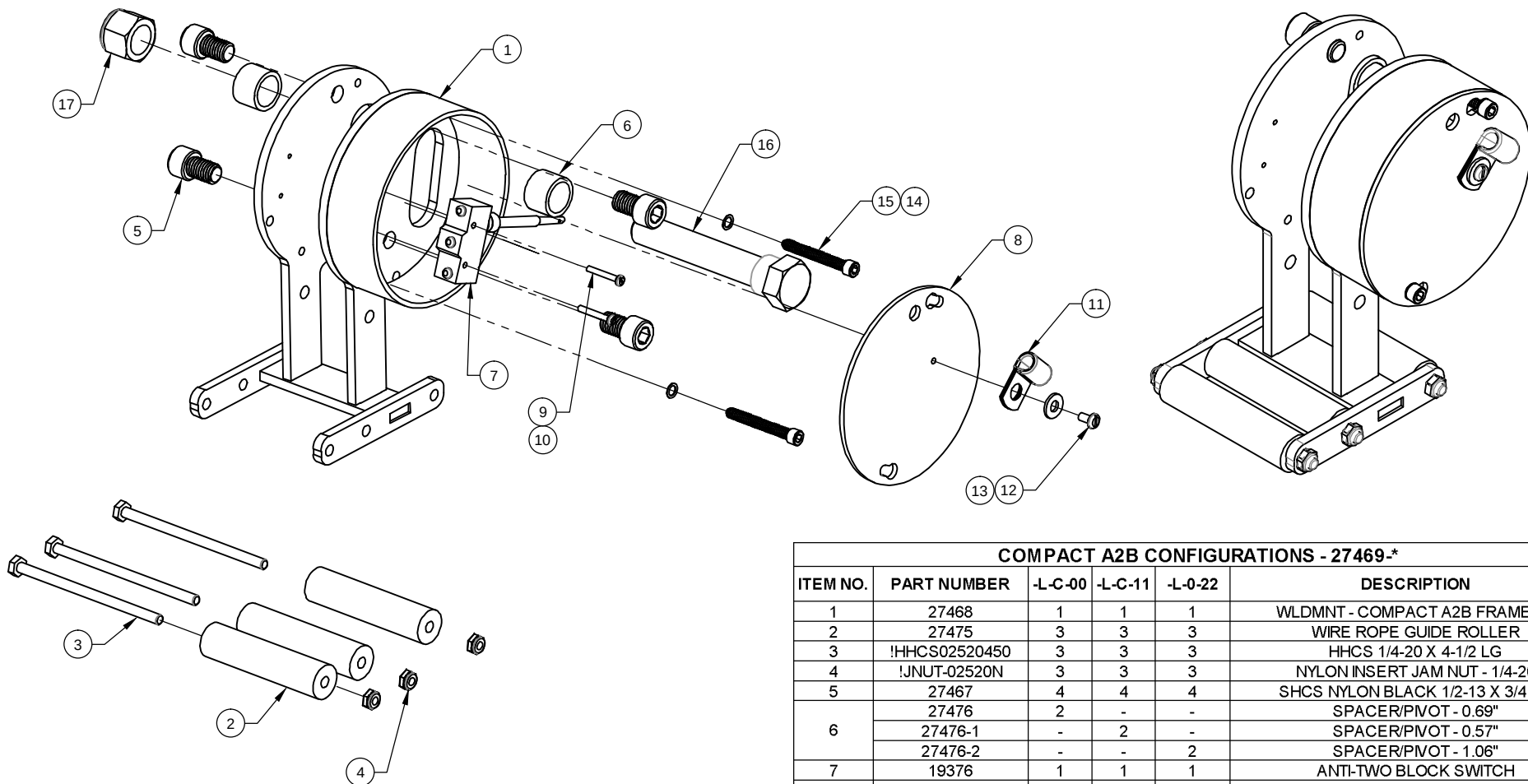
11-18-24A

SECTION

C400

26954

# 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

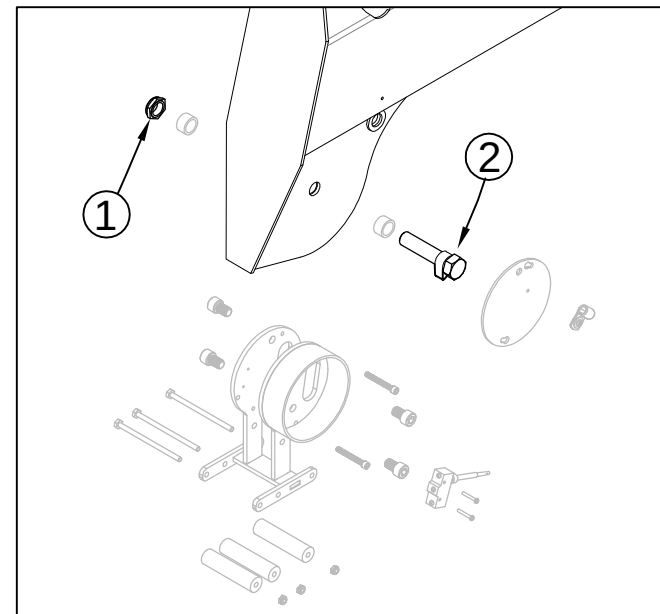
SECTION  
C400

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

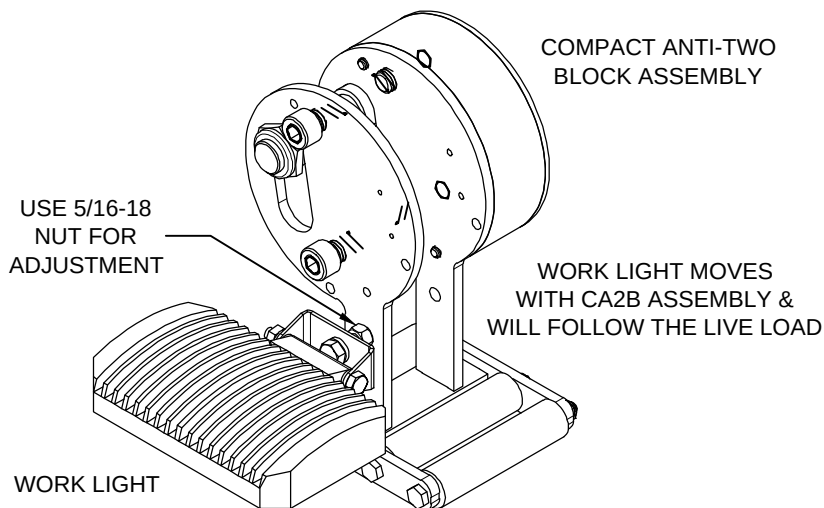
08-03-21A

SECTION

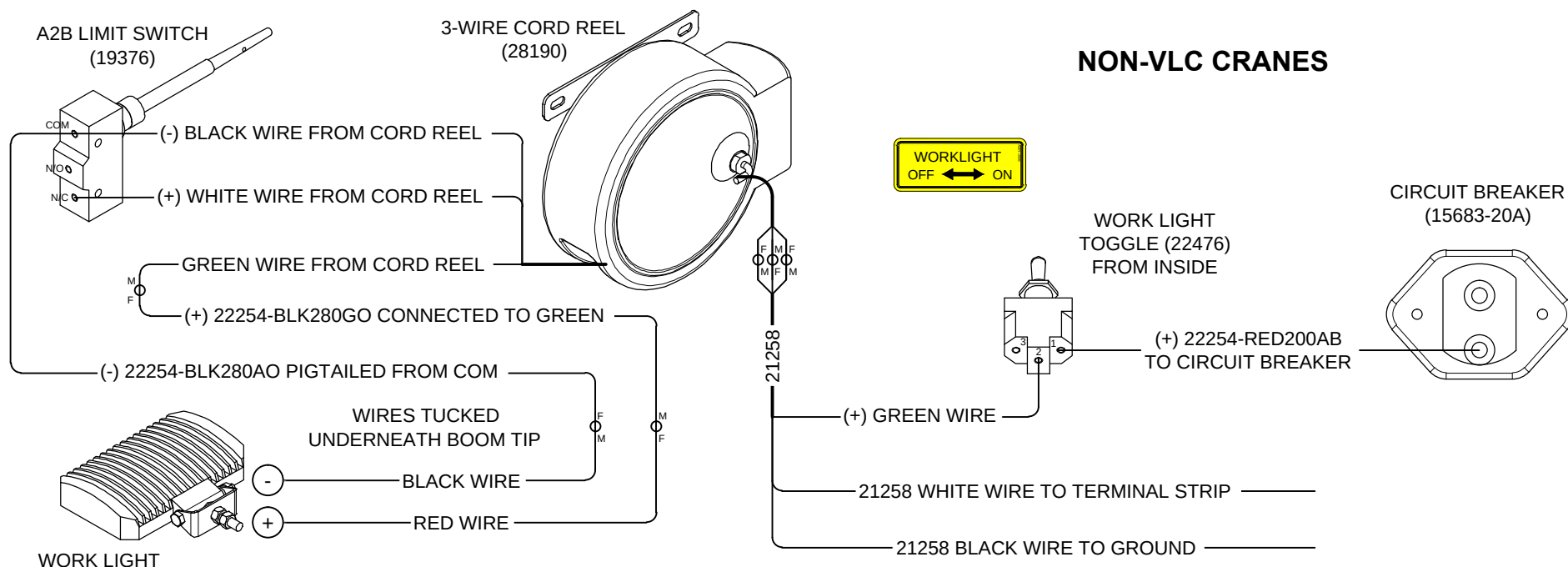
C400

28239

WORK LIGHT INSTALLATION: 28240-1 (3-WIRE CORD REEL ON NON-VLC CRANES)



| BILL OF MATERIALS |                                                     | -1 | 28240          |
|-------------------|-----------------------------------------------------|----|----------------|
| #                 | DESCRIPTION                                         |    | PART NUMBER    |
| 1                 | IDWG; WORK LIGHT INSTALLATION, NON-VLC CRANES       | 1  | 28199          |
| 2                 | LED WORK LIGHT                                      | 1  | 27483          |
| 3                 | TERMINAL; 16G, FEMALE, QUICK-CONNECT                | 3  | ITEM16G250QCFI |
| 4                 | TERMINAL; 16G, MALE, QUICK-CONNECT                  | 4  | ITEM16G250QCM  |
| 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                 | TOGGLE SWITCH; ON / OFF, IP-RATED                   | 1  | 22476          |
| 8                 | HALF-BOOT, FOR IP-RATED TOGGLE SWITCH               | 1  | 19793          |
| 9                 | DECAL; ON/OFF, OPTIONAL WORK LIGHT W/ TOGGLE        | 1  | 28307          |
| 10                | WIRE ASS'Y; 16G, RED, 20", #6 RING - #10 RING       | 1  | 22254-RED200AB |
| 11                | TERMINAL; 16G, #6 RING, CLOSED-END                  | 1  | ITEM16G#6RG    |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

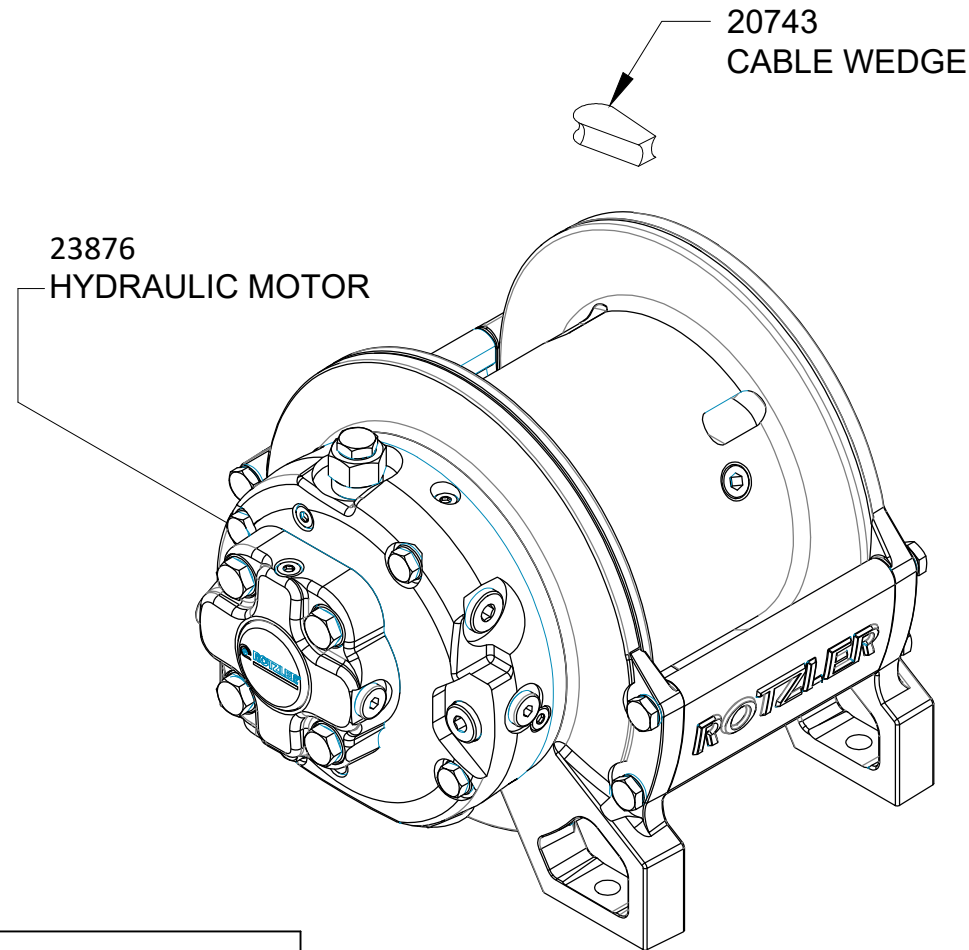
| TITLE                                     |
|-------------------------------------------|
| WORK LIGHT INSTALLATION, 3-WIRE CORD REEL |
| NON-VLC CRANES                            |

|            |          |
|------------|----------|
| DATE       | 02-10-21 |
| SUPERSEDES | -        |

|         |       |
|---------|-------|
| SECTION | C400  |
|         | 28199 |



# 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

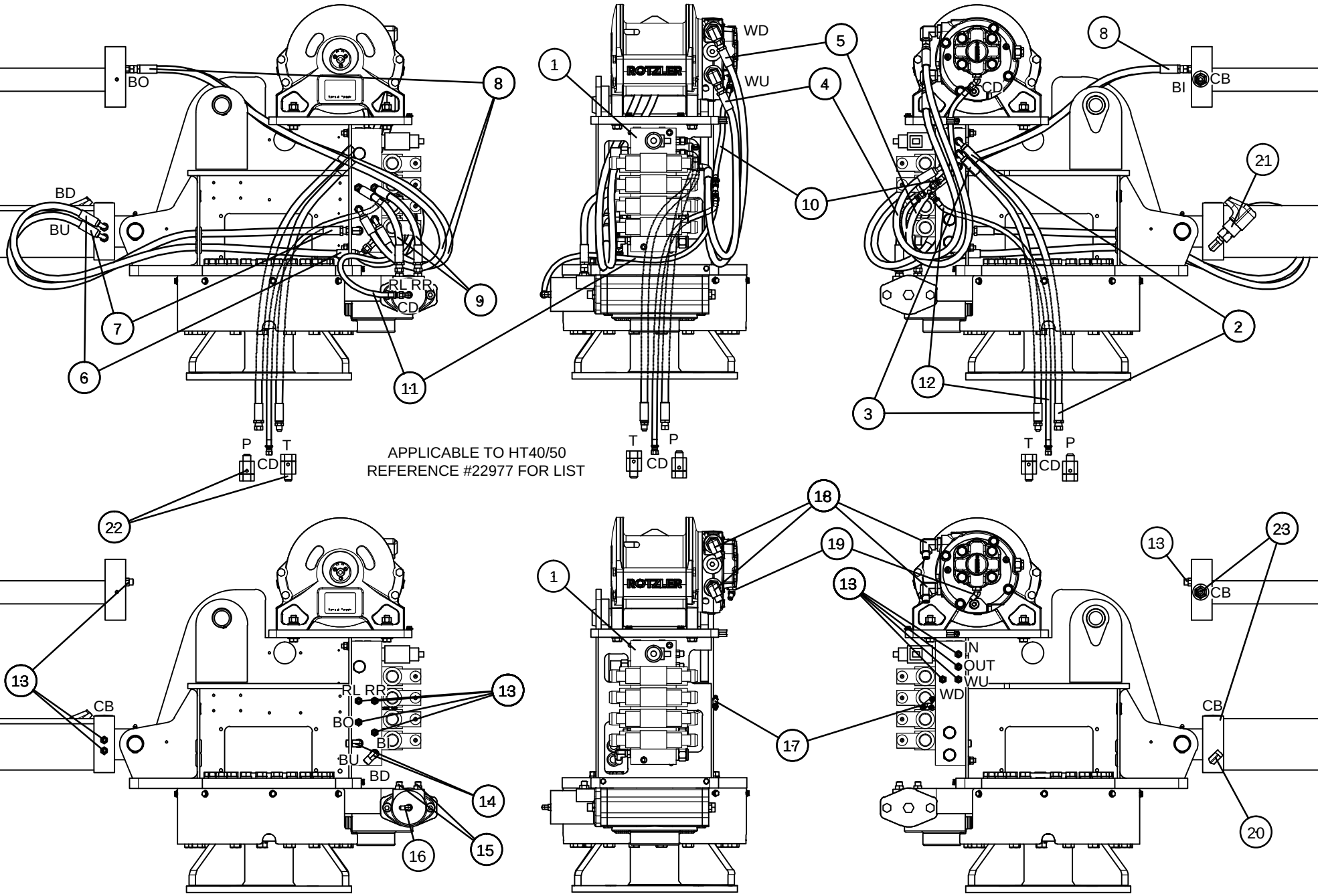
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SECTION

C400

26896

# REPLACEMENT PARTS DRAWING, HYDRAULIC COMPONENTS



APPLICABLE TO HT40/50  
REFERENCE #22977 FOR LIST



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
REPLACEMENT PARTS, HYD. COMPONENTS  
HT40/50 NON-PROPORTIONAL SERIES

DATE  
04-27-21B  
SUPERSEDES  
12-16-16A

SECTION  
C400  
22976



# REPLACEMENT PARTS LIST; HYDRAULIC COMPONENTS

| #  | DESCRIPTION                                       | QTY | PART NUMBER     | APPLICATION                                       |
|----|---------------------------------------------------|-----|-----------------|---------------------------------------------------|
| 1  | VALVE MANIFOLD; NON-PROPORTIONAL, HT40/50KX       | 1   | 22501-0-225-225 | REAR OF MECHANISM, INSIDE REAR COVER              |
| 2  | HOSE ASSEMBLY; PRESSURE SUPPLY                    | 1   | 23832           | RIGHT SIDE VALVE BANK TO COMPARTMENT SIDE         |
| 3  | HOSE ASSEMBLY; RETURN SUPPLY                      | 1   | 23833           | RIGHT SIDE VALVE BANK TO COMPARTMENT SIDE         |
| 4  | HOSE ASSEMBLY; WINCH UP                           | 1   | 27046           | RIGHT SIDE VALVE BANK TO WINCH UP PORT            |
| 5  | HOSE ASSEMBLY; WINCH DOWN                         | 1   | 27047           | RIGHT SIDE VALVE BANK TO WINCH DOWN PORT          |
| 6  | HOSE ASSEMBLY; BOOM DOWN                          | 1   | 27026           | LEFT SIDE VALVE BANK TO BOOM UP PORT              |
| 7  | HOSE ASSEMBLY; BOOM UP                            | 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   | 27043           | 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, 6OFS-6MO              | 12  | FF6400-0606     | IN, OUT, WU, WD, RL, RR, BI, BO, EL. & EXT. CYL'S |
| 14 | FITTING; ADAPTER, 90° ELBOW, 6OFS-6MO             | 2   | FF6801-0606     | LEFT SIDE VALVE BANK, BU & BD PORTS               |
| 15 | FITTING; ADAPTER, STRAIGHT, 6OFS-10MO             | 2   | FF6400-0610     | ROTATION MOTOR PORTS                              |
| 16 | FITTING; ADAPTER, 90° ELBOW, 4MJ-4MO              | 1   | H6801-0404      | ROTATION CASE DRAIN PORT                          |
| 17 | FITTING; ADAPTER, T-SHAPE, 4MJ-4MJ-4MJ            | 1   | H2603-040404    | T-FITTING JUNCTION, CASE DRAIN HOSES              |
| 18 | FITTING; ADAPTER, 90° ELBOW, 6OFS-8MO BRITISH     | 2   | FF3801-06-08    | WINCH UP & DOWN PORTS, ROTZLER TI SERIES          |
| 19 | FITTING; ADAPTER, 45° ELBOW, 4MJ-4MO BRITISH      | 1   | 3802-0404       | WINCH CASE DRAIN PORT, ROTZLER TI SERIES          |
| 20 | FITTING; ADAPTER, 90° ELBOW, 4MO-4FP              | 1   | H6805-0404      | ELEVATION CYLINDER, PRESSURE SWITCH               |
| 21 | PRESSURE SWITCH, 2900 PSI RATING                  | 1   | 17460-2900-21   | BASE-END ON ELEVATION CYLINDER                    |
| 22 | LIVE SWIVEL; CONTINUOUS, STRAIGHT, 6MJ-6FJ        | 2   | 20684           | PRESSURE & RETURN HOSES, COMPARTMENT SIDE         |
| 23 | COUNTER-BALANCE VALVE; CBPA, 50/40, 3000 PSI SYS. | 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 #22976 FOR REPLACEMENT PARTS DRAWING



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS LIST

HT40/50 NON-PROPORTIONAL

DATE

04-27-21B

SUPERSEDES

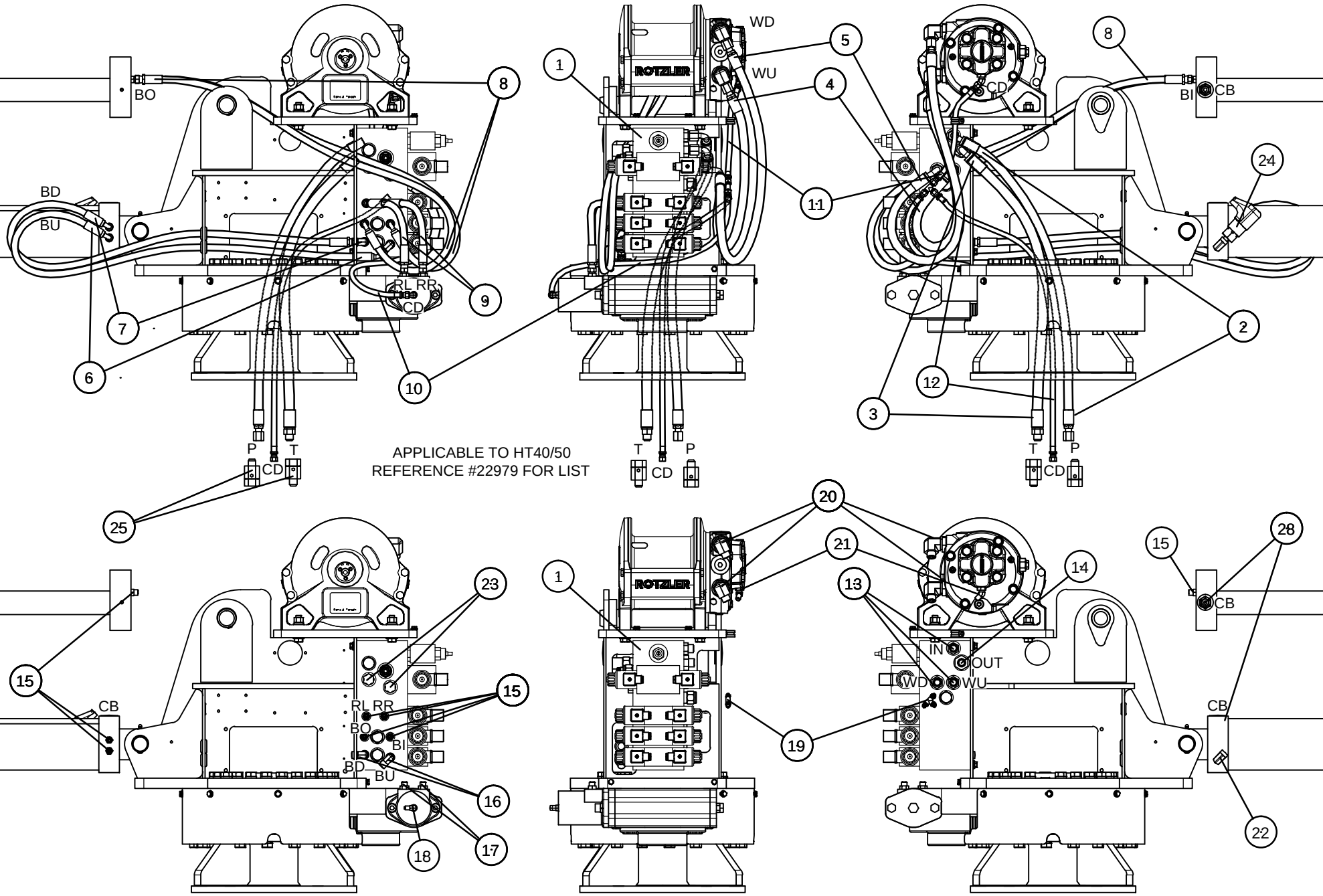
12-19-16A

SECTION

C400

22977

# REPLACEMENT PARTS DRAWING, HYDRAULIC COMPONENTS



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
REPLACEMENT PARTS, HYD. COMPONENTS  
HT40/50 PROPORTIONAL SERIES CRANES

DATE  
04-27-21F  
SUPERSEDES  
10-22-20E

SECTION  
C400  
22978

# 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   | FITTING; ADAPTER, 90° ELBOW, 4MO-4FO              | 1   | H6805-0404    | ELEVATION BASE-END, PRESSURE SWITCH         |
| 23   | FITTING; PLUG, 10MO                               | 2   | H6408-10      | LEFT SIDE VALVE BANK, WU & WD PORTS         |
| 24   | PRESSURE SWITCH, 2900 PSI RATING                  | 1   | 17460-2900-21 | BASE-END ON ELEVATION CYLINDER              |
| ▲ 25 | LIVE SWIVEL; CONTINUOUS, STRAIGHT, 8MJ-8FJ        | 2   | 22764         | PRESSURE & RETURN HOSES, COMPARTMENT SIDE   |
| 26   | COUNTER-BALANCE VALVE; CBPA, 50/40, 3000 PSI SYS. | 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 #22978 FOR REPLACEMENT PARTS DRAWING



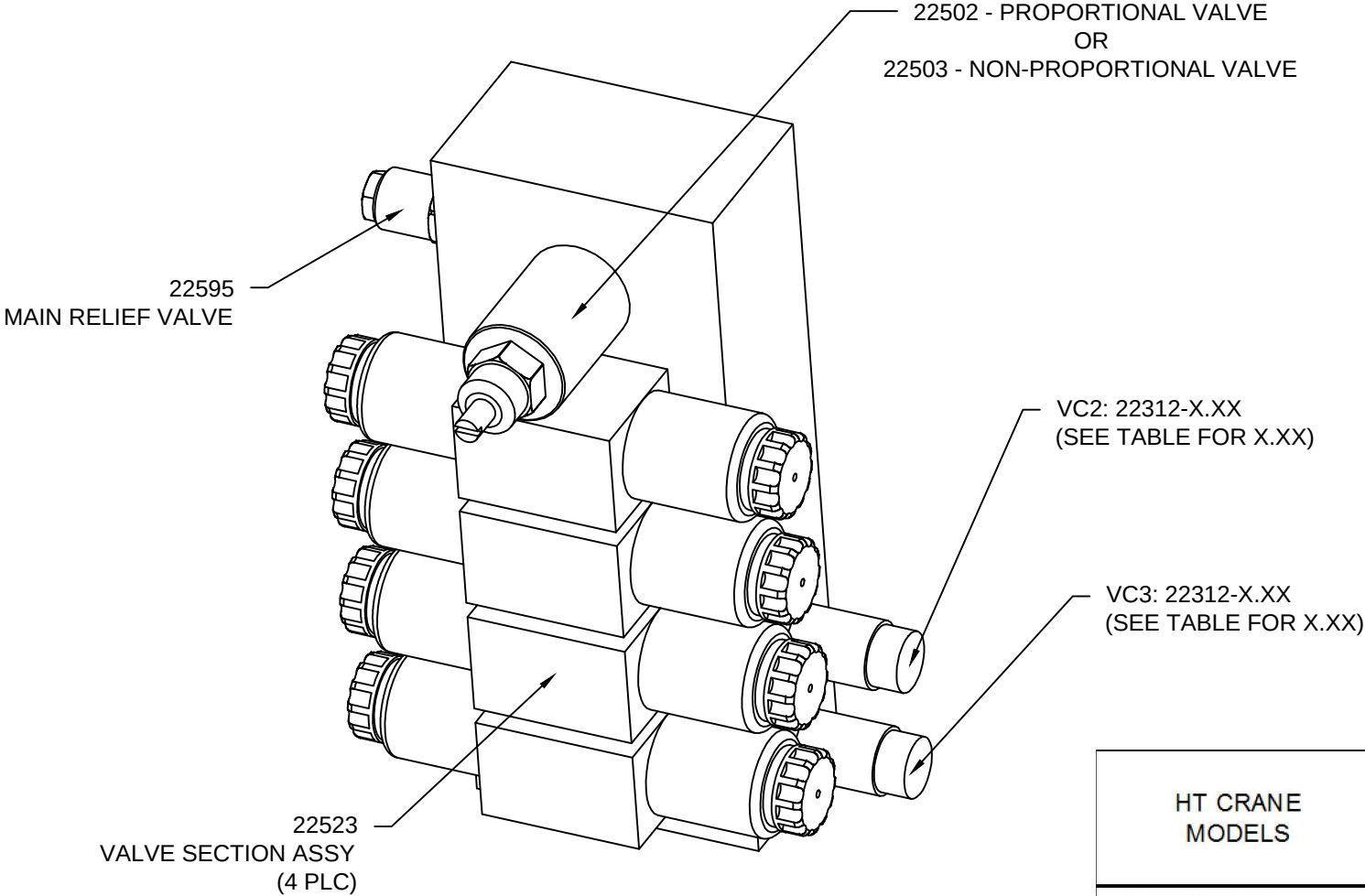
VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
**REPLACEMENT PARTS LIST**  
  
HT40/50 PROPORTIONAL

DATE  
**07-09-25A**  
  
SUPERSEDES  
**04-19-24**

SECTION  
**C400**  
  
**26930**

# 22501 HYDRAULIC VALVE MANIFOLD, REPLACEMENT PARTS



| HT CRANE<br>MODELS | PRIORITY FLOW VALVES |           |
|--------------------|----------------------|-----------|
|                    | VC2                  | VC3       |
|                    | EXTENSION            | ELEVATION |
| HT 25/30 NON-PROP  | 1.00                 | 1.75      |
| HT 25/30 PROP      | 1.75                 | 3.00      |
| HT 40/50 NON-PROP  | ▲ 2.25               | 2.25      |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
REPLACEMENT PARTS

22501 VALVE BLOCK, HT SERIES CRANES

DATE  
10-22-15B

SUPERSEDES  
03-04-10A

SECTION  
C400

22939

# 22736 SERIES VALVE MANIFOLD REPLACEMENT PARTS

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

22595  
MAIN RELIEF VALVE

22967 (HT40/45/50, 22736H & -3) ▲  
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   | HT40/50    |
| 22312-7.50                        | 22736H-1 | HT66       |
| 22312-7.50                        | 22736H-2 | HT60       |
| 22312-7.50                        | 22736H-3 | HT40/45/50 |
| NOT SHOWN - LOCATED ON RIGHT SIDE |          |            |

23046  
PROPORTIONAL VALVE

22873  
VALVE SECTION ASSY

22523  
VALVE SECTION ASSY



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
22736 REPLACEMENT PARTS

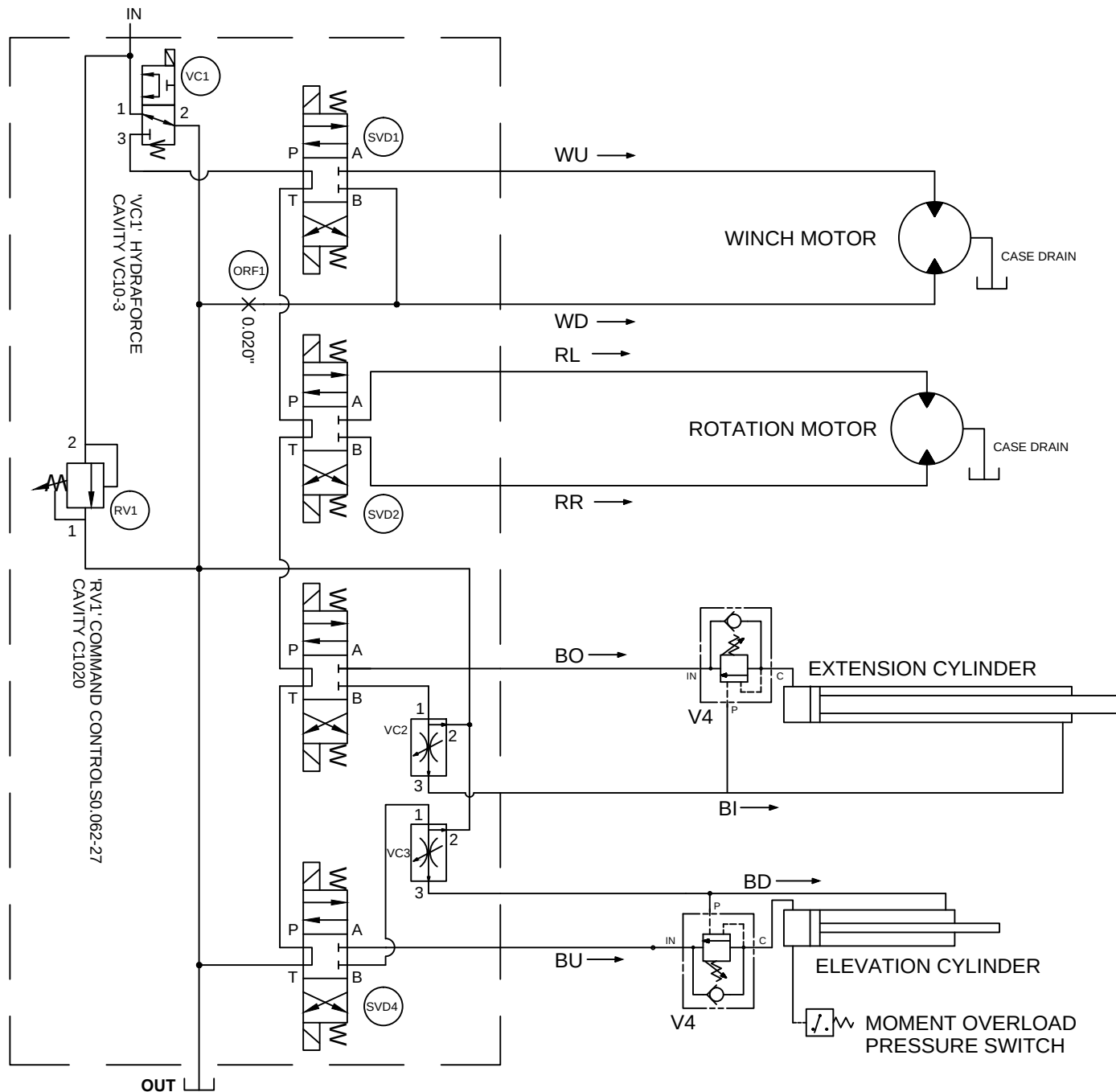
HT40/50/60/66KX PROPORTIONAL

DATE  
04-19-24H

SUPERSEDES  
11-10-22G

SECTION  
C400

22940



|      |                                   |
|------|-----------------------------------|
| VA1  | CONTROL VALVE ASSEMBLY            |
| RV1  | RELIEF VALVE                      |
| SVD1 | 3 POSITION - 4 WAY VALVE SECTION  |
| SVD2 | 3 POSITION - 4 WAY VALVE SECTION  |
| SVD3 | 3 POSITION - 4 WAY VALVE SECTION  |
| SVD4 | 3 POSITION - 4 WAY VALVE SECTION  |
| V4   | COUNTERBALANCE CARTRIDGE VALVE    |
| VC1  | MAIN FLOW VALVE (MANUAL OVERRIDE) |
| VC2  | PRIORITY FLOW REGULATOR VALVE     |
| VC3  | PRIORITY FLOW REGULATOR VALVE     |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
HYDRAULIC SCHEMATIC

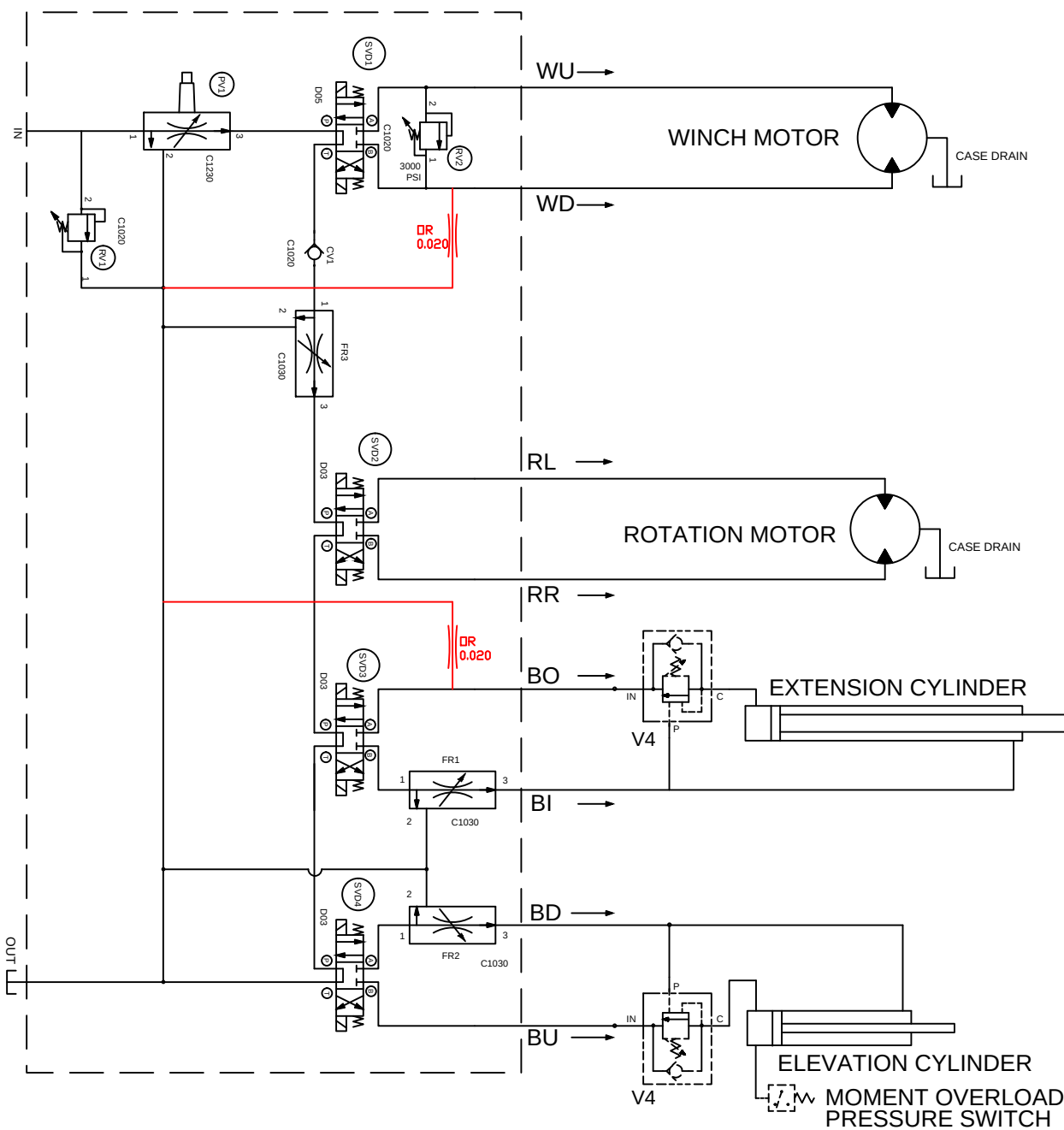
HT40KX NON-PROPORTIONAL

DATE  
06-17-24F

SUPERSEDES  
12-04-23E

SECTION  
C400

22486



- PVI PROPORTIONAL CONTROL VALVE (SIMPLIFIED REP)
- RV1 INLET RELIEF VALVE
- RV2 WINCH RELIEF VALVE
- FR1 PRIORITY FLOW REGULATOR
- FR2 PRIORITY FLOW REGULATOR
- FR3 PRIORITY FLOW REGULATOR
- 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  
HT40/50/66KX; PROPORTIONAL

DATE  
06-17-24E  
SUPERSEDES  
12-04-23D

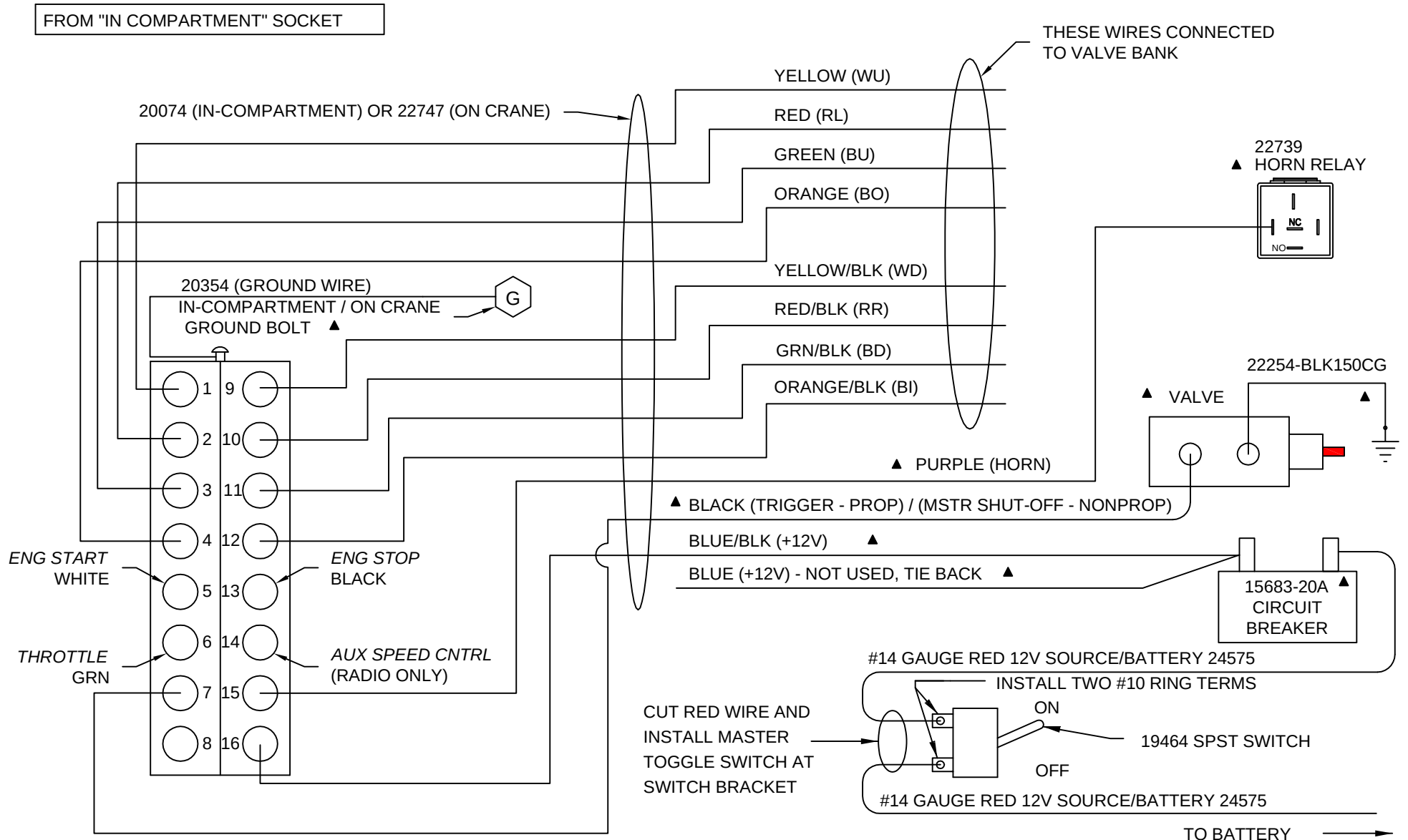
SECTION  
C400  
27352







# ▲ SOCKET WIRING; 16-PIN, W/ OPTIONAL ENG CONTROLS



▲ ENGINE CONTROLS (#22616) SOLD AS AN OPTION (NOT INCLUDED WITH CRANE)



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

SOCKET WIRING; 16 PIN

HT CRANES

DATE

02-17-15G

SUPERSEDES

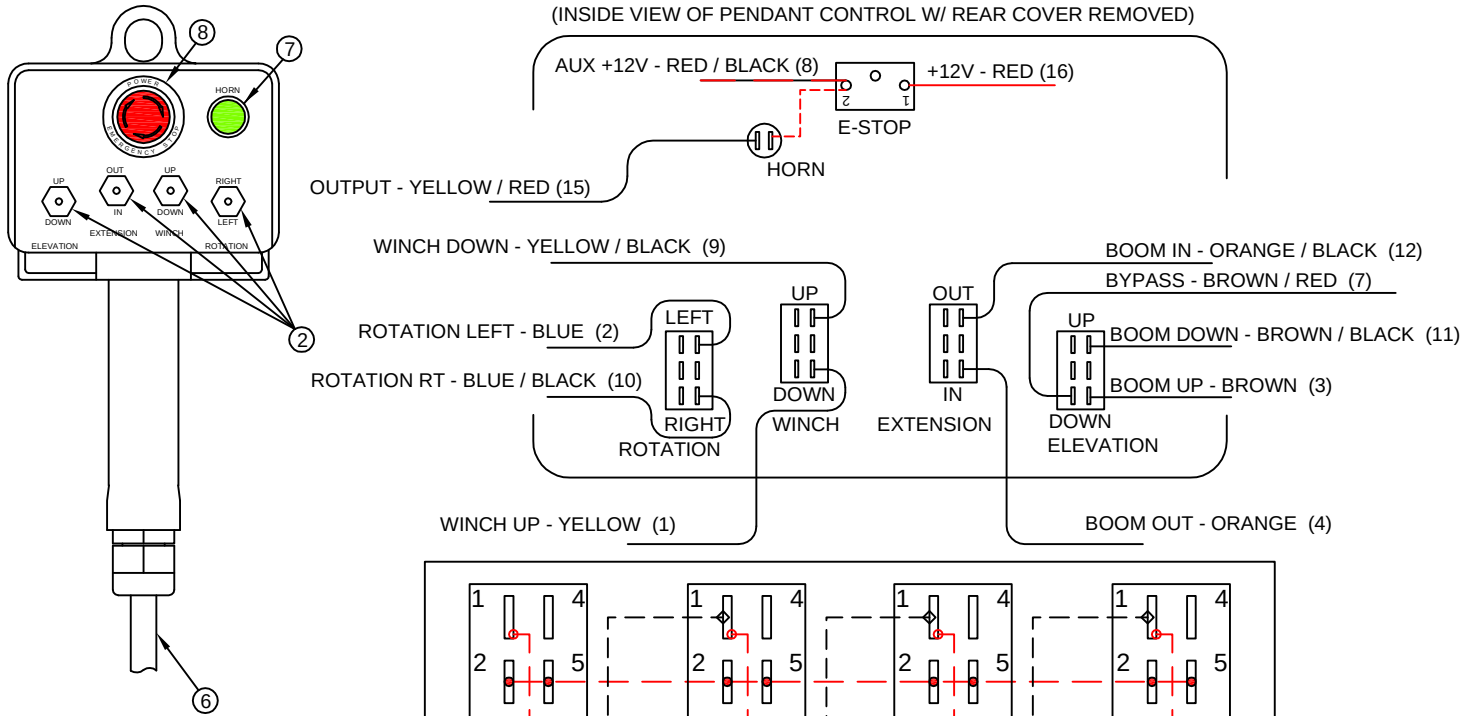
02-21-14F

SECTION

C400

22125

21989 PENDANT; HT CRANES, NON-PROP, E-STOP / HORN



WIRE TERMINALS TO BE INSTALLED 'AFTER'  
ROUTING REPLACEMENT CORD ASSY  
THROUGH PENDANT HEAD AND PLUG  
HOUSING.

STOW OR CUT BACK UNUSED WIRES.

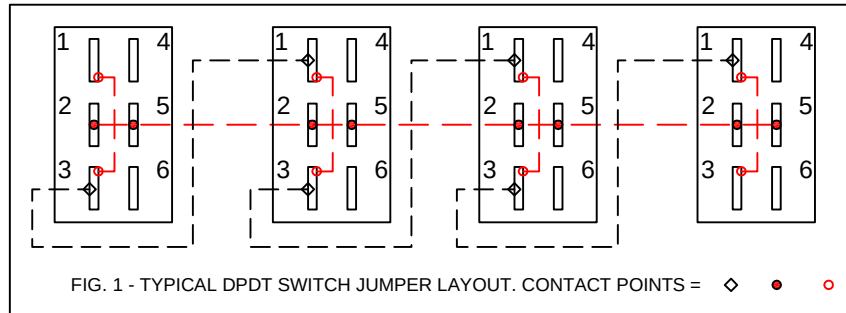
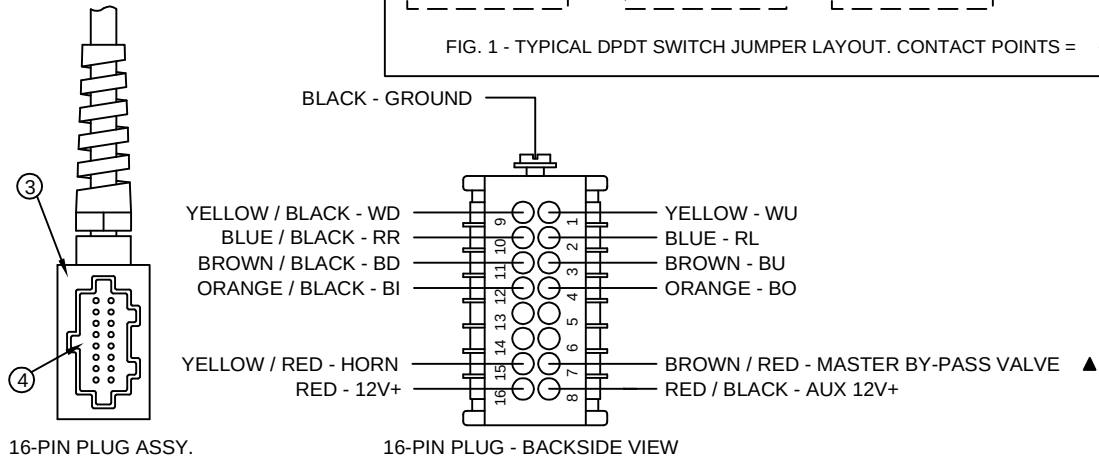


FIG. 1 - TYPICAL DPDT SWITCH JUMPER LAYOUT. CONTACT POINTS =   



16-PIN PLUG ASSY.

### 16-PIN PLUG - BACKSIDE VIEW

| <u>MODEL</u> | <u>STARTING S/N</u> |
|--------------|---------------------|
| HT25K(X)     | 120300              |
| HT30K(X)     | 115300              |
| HT40KX(X)    | 100900              |
| HT50KX(X)    | 110600              |
| HT66KXX      | 150300              |

|      |     |          |                            |
|------|-----|----------|----------------------------|
| 8    | 1   | 22156    | SWITCH; E-STOP             |
| 7    | 1   | 22155    | SWITCH; PUSHBUTTON, HORN   |
| 6    | 1   | 22135    | KIT; REPLACEMENT CORD ASSY |
| 5    | -   | -        | -                          |
| 4    | 1   | 22472    | INSERT; MALE, 16 + 1 POLE  |
| 3    | 1   | 22471    | PLUG CASE; 16 + 1 POLE     |
| 2    | 4   | 22152    | SWITCH; DPDT, MOMENTARY    |
| 1    | -   | -        | -                          |
| ITEM | QTY | PART NO. | DESCRIPTION                |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

## REPLACEMENT PARTS DWG &amp; LIST

21989 PNDNT; HT, NON-PROP, ESTP/HRN

|      |
|------|
| DATE |
|------|

01-12-17A

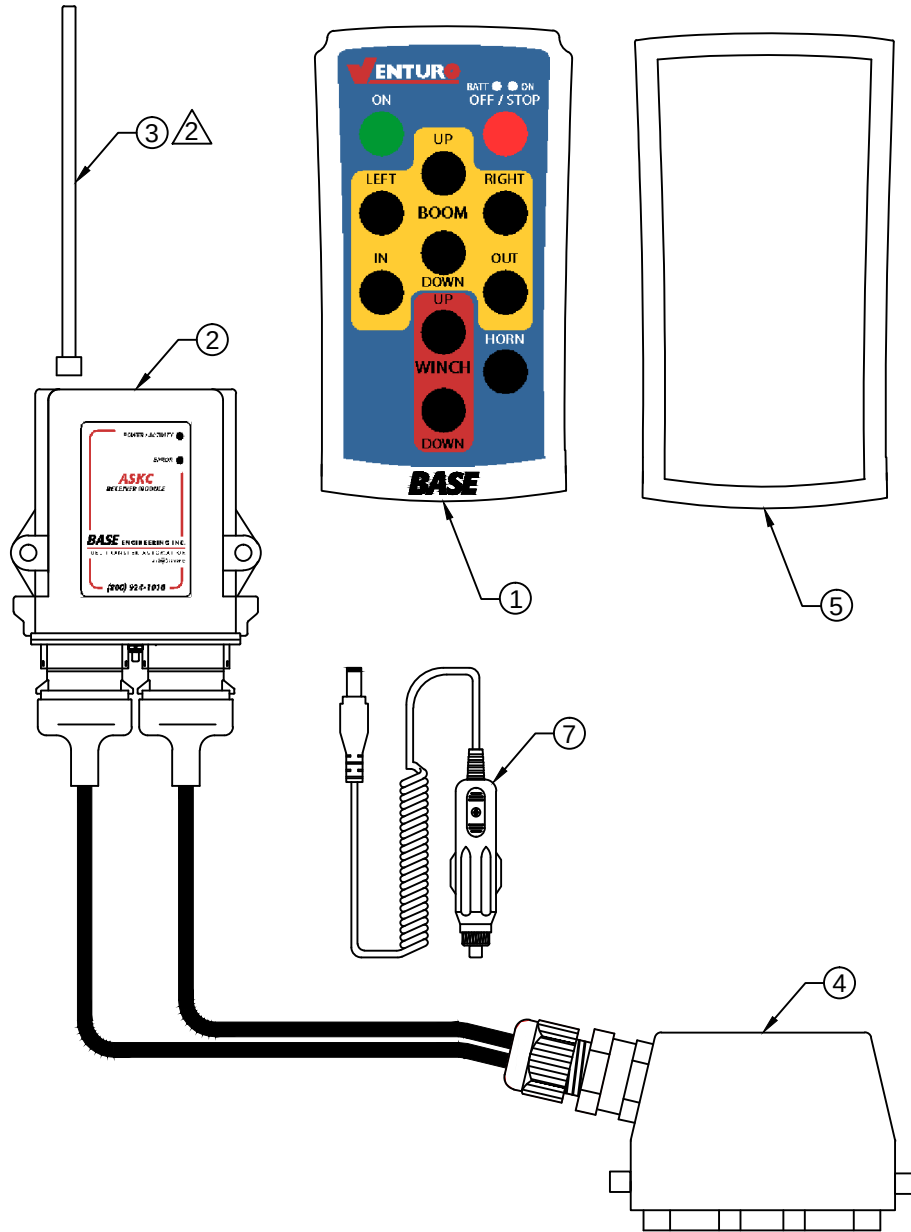
|            |
|------------|
| SUPERSEDES |
| 10-03-1    |

SECTION

C400

23074]

# 21986-ET/-HT RADIO; NON-PROP, NON-CAN, NO ENG CTRL, W/ HORN



| COMPONENTS |             |                      |
|------------|-------------|----------------------|
| ITEM NO.   | PART NO.    | DESCRIPTION          |
| 1          | 21986-TX    | TRANSMITTER          |
| 2          | 21986-RX-ET | RECEIVER - ET CRANES |
|            | 21986-RX-HT | RECEIVER - HT CRANES |
| 3          | 21986-ANT   | ANTENNA              |
| 4          | 21986-HN    | HARNESS              |
| 5          | 21986-CASE  | CASE                 |
| 6          | 22910-BATT  | BATTERY              |
| 7          | 22910-CHGR  | CHARGER              |

1 21986-RX-\*\* DOES NOT INCLUDE 21986-ANT

2 ASKCEX1200RX (INTRODUCED 07/2025) HAS PROVISION FOR EXTERNAL WHIP ANTENNA; EARLIER ASKC1100RX & ASKC1200RX CANNOT USE EXTERNAL ANTENNA



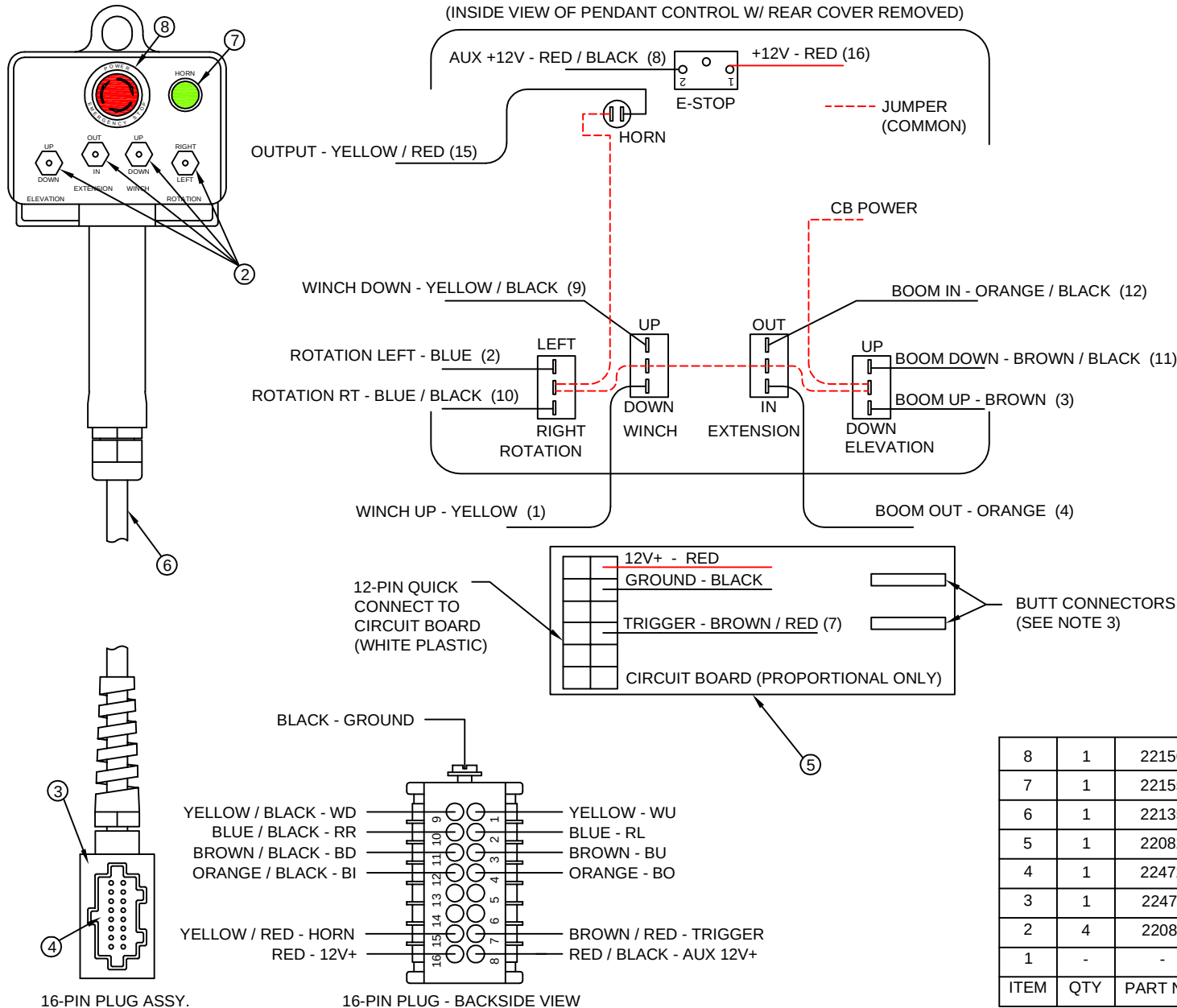
VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
REPLACEMENT PARTS DWG & LIST  
ET NON-PROPORTIONAL CRANES

DATE  
08-05-25  
SUPERSEDES  
-

SECTION  
C400  
23529

## 21988 PENDANT; PROP, NO ENG CNTRL, E-STOP / HORN



NOTE 1:

WIRE TERMINALS TO BE INSTALLED 'AFTER'  
ROUTING REPLACEMENT CORD ASSY  
THROUGH PENDANT HEAD AND PLUG  
HOUSING.

NOTE 2:

STOW OR CUT BACK UNUSED WIRES.

NOTE 3:

WHEN REPLACING CORD ASSY, CUT BLACK AND BLACK / RED WIRES FROM 12-PIN QUICK CONNECT AND INSTALL 'BUTT CONNECTORS'; MATCH UP BLACK TO BLACK WIRES AND BLACK / RED TO BLACK / RED WIRES FROM REPLACEMENT CORD ASSY.

| <u>MODEL</u> | <u>STARTING S/N</u> |
|--------------|---------------------|
| HT25K(X)     | 120300              |
| HT30K(X)     | 115300              |
| HT40KX(X)    | 100900              |
| HT50KX(X)    | 110600              |
| HT66KXX      | 150300              |

|      |     |          |                                      |
|------|-----|----------|--------------------------------------|
| 8    | 1   | 22156    | SWITCH; E-STOP                       |
| 7    | 1   | 22155    | SWITCH; PUSHBUTTON, HORN             |
| 6    | 1   | 22135    | KIT; REPLACEMENT CORD ASSY           |
| 5    | 1   | 22082    | CIRCUIT BOARD; PROP VALVE CONTROLLER |
| 4    | 1   | 22472    | INSERT; MALE, 16 + 1 POLE            |
| 3    | 1   | 22471    | PLUG CASE; 16 + 1 POLE               |
| 2    | 4   | 22081    | SWITCH; SPDT, MOMENTARY              |
| 1    | -   | -        | -                                    |
| ITEM | QTY | PART NO. | DESCRIPTION                          |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

## REPLACEMENT PARTS DWG &amp; LIST

21988 PNDNT; PROP, NO ENG CNT, ESTP/HRN

|      |
|------|
| DATE |
|------|

10-03-14

SUPERSEDES

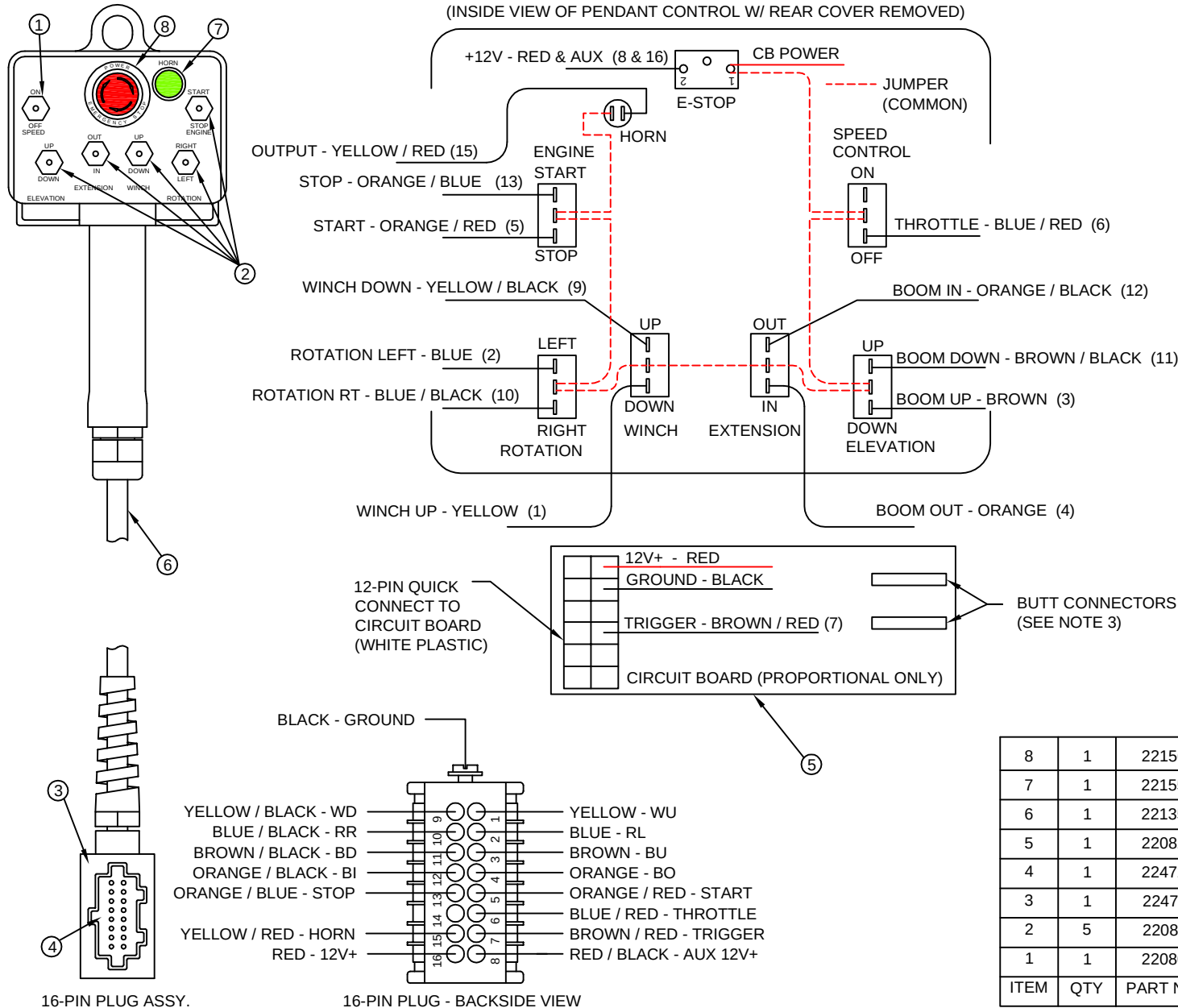
1

SECTION

C400

23073]

# 21987 PENDANT; PROP, ENG CNTRL, E-STOP / HORN



NOTE 1:

WIRE TERMINALS TO BE INSTALLED 'AFTER' ROUTING REPLACEMENT CORD ASSY THROUGH PENDANT HEAD AND PLUG HOUSING.

NOTE 2:

STOW OR CUT BACK UNUSED WIRES.

NOTE 3:

WHEN REPLACING CORD ASSY, CUT BLACK AND BLACK / RED WIRES FROM 12-PIN QUICK CONNECT AND INSTALL 'BUTT CONNECTORS'; MATCH UP BLACK TO BLACK WIRES AND BLACK / RED TO BLACK / RED WIRES FROM REPLACEMENT CORD ASSY.

| MODEL     | STARTING S/N |
|-----------|--------------|
| HT25K(X)  | 120300       |
| HT30K(X)  | 115300       |
| HT40KX(X) | 100900       |
| HT50KX(X) | 110600       |
| HT66KXX   | 150300       |

| ITEM | QTY | PART NO. | DESCRIPTION                          |
|------|-----|----------|--------------------------------------|
| 8    | 1   | 22156    | SWITCH; E-STOP                       |
| 7    | 1   | 22155    | SWITCH; PUSHBUTTON, HORN             |
| 6    | 1   | 22135    | KIT; REPLACEMENT CORD ASSY           |
| 5    | 1   | 22082    | CIRCUIT BOARD; PROP VALVE CONTROLLER |
| 4    | 1   | 22472    | INSERT; MALE, 16 + 1 POLE            |
| 3    | 1   | 22471    | PLUG CASE; 16 + 1 POLE               |
| 2    | 5   | 22081    | SWITCH; SPDT, MOMENTARY              |
| 1    | 1   | 22080    | SWITCH; SPST                         |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

REPLACEMENT PARTS DWG & LIST

DATE

10-03-14

SECTION

C400

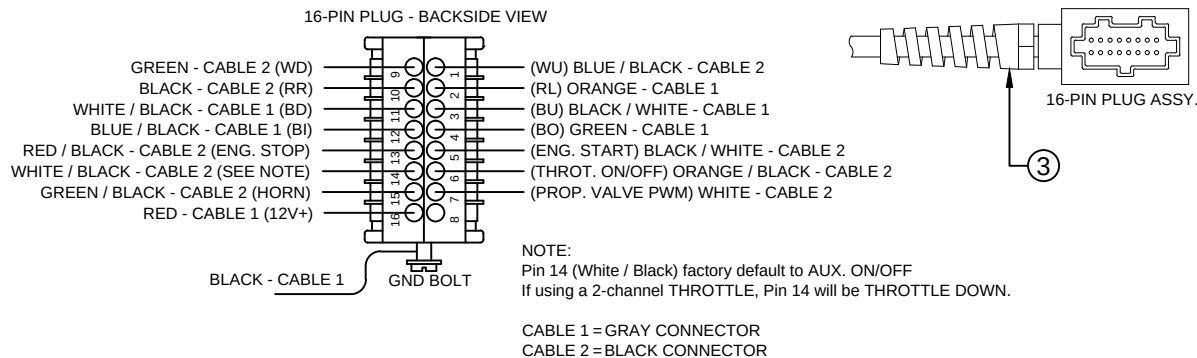
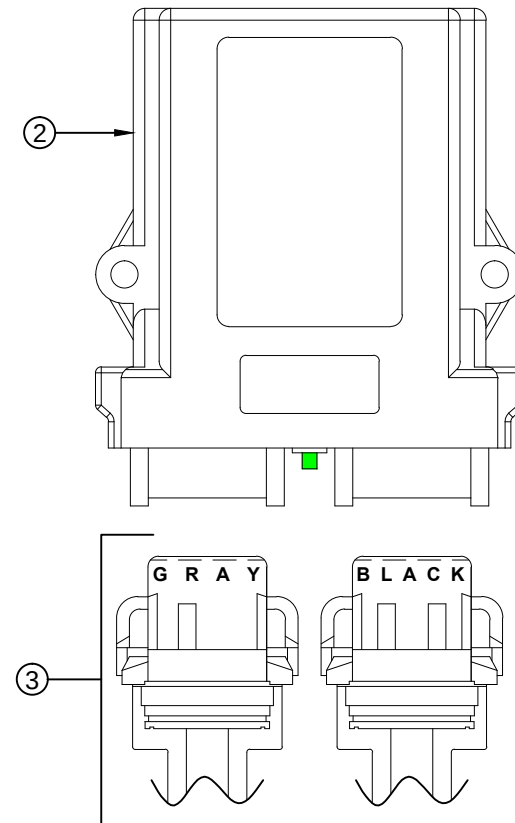
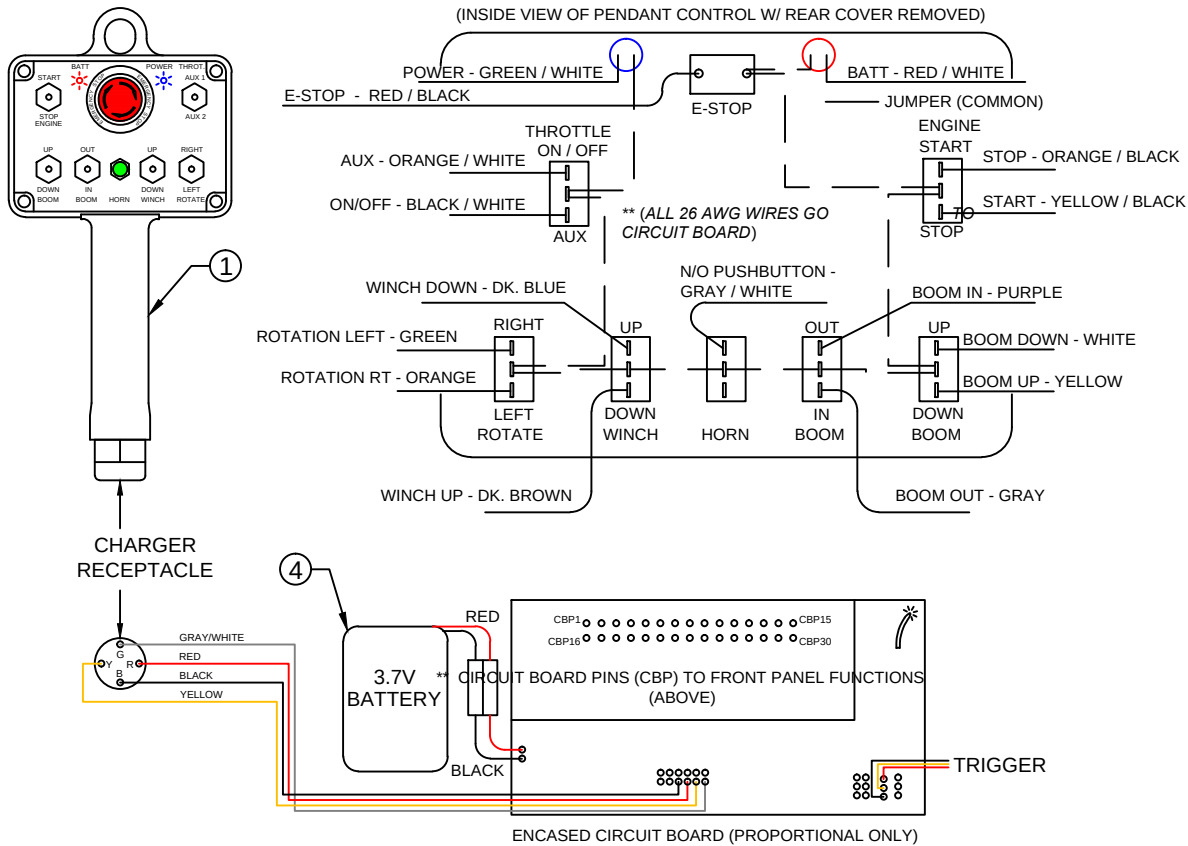
21987 PENDANT; PROP, ENG CNTRL, ESTP/HRN

SUPERSEDES

-

23072

# 21983 RADIO; PROP, NON-CAN, ENG CNTRLS, E-STOP/HORN



| COMPONENTS |            |                     |
|------------|------------|---------------------|
| ITEM NO.   | PART NO.   | DESCRIPTION         |
| 1          | 21983-TX   | TRANSMITTER         |
| 2          | 21983-RX   | RECEIVER            |
| 3          | 21983-HN   | HARNESS             |
| 4          | 22965-BATT | BATTERY             |
| 5          | 22965-CHGR | CHARGER (NOT SHOWN) |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

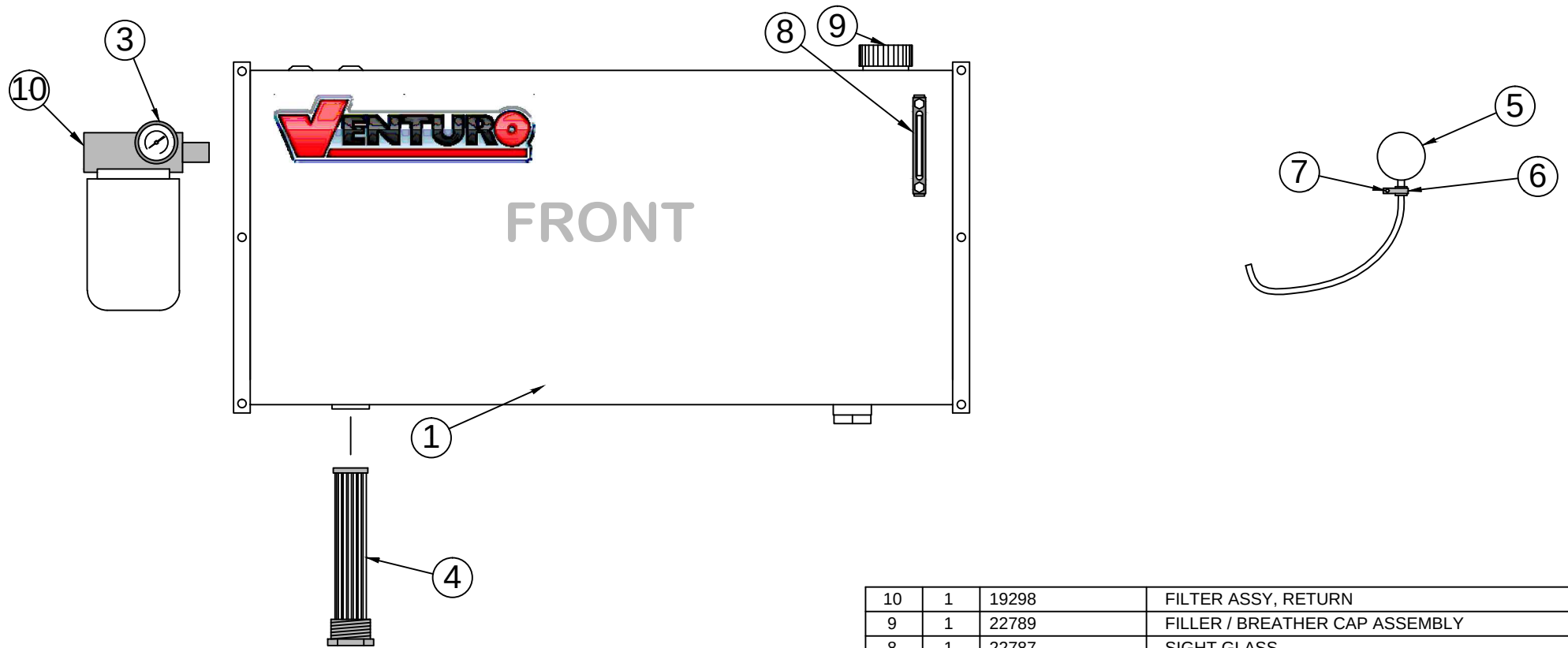
TITLE  
REPLACEMENT PARTS DWG & LIST  
HT PROPORTIONAL SERIES CRANES

DATE  
08-13-25  
SUPERSEDES  
-

SECTION  
C400  
23531







|      |     |                 |                                                |
|------|-----|-----------------|------------------------------------------------|
| 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

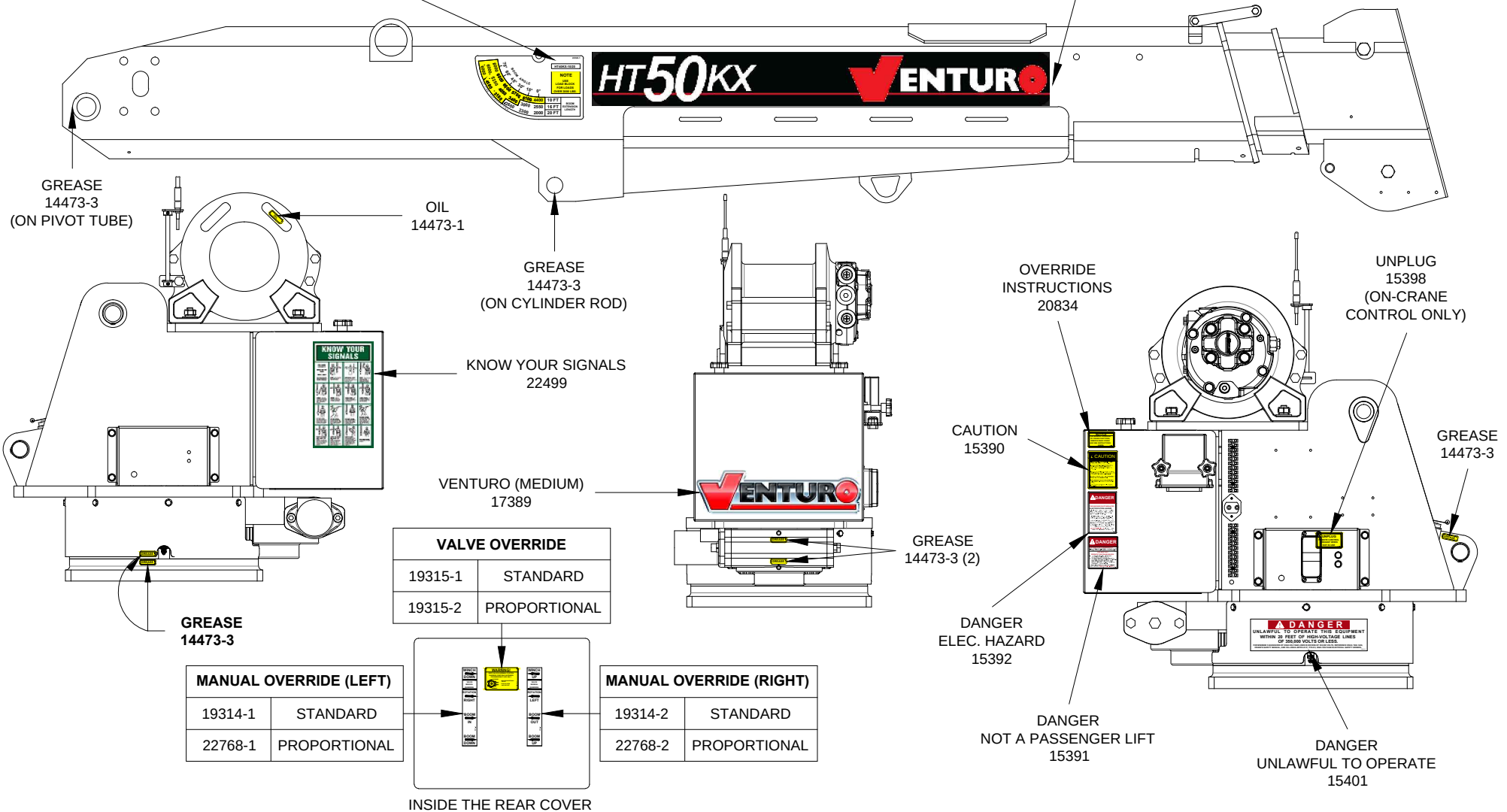
SUPSEDES

08-04-15C

23224

|       | BOOM CAPACITY DECALS |          |          |          |          |
|-------|----------------------|----------|----------|----------|----------|
|       | HT40KX               |          | HT50KX   |          |          |
|       | 20' BOOM             | 25' BOOM | 20' BOOM | 25' BOOM | 30' BOOM |
| RIGHT | 22342-1              | 23064    | 22352-1  | 22877-1  | 24092    |
| LEFT  | 22342-2              | 23065    | 22352-2  | 22877-2  | 24091    |

| MODEL NAME DECALS |           |
|-------------------|-----------|
| HT40KX            | HT50KX    |
| 28523 (2)         | 28520 (2) |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE  
**DECAL PLACEMENTS**  
  
HT40/50KX SERIES

DATE  
08-15-24A  
  
SUPERSEDES  
06-16-23

SECTION  
C400  
  
**28522**

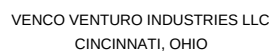
# HT40KX FIELD SERVICE LABEL KITS

| HT40KX       |                  |              |                  | 22920 FIELD SERVICE LABEL KITS<br>(FOR HT40KX) |                                                    |
|--------------|------------------|--------------|------------------|------------------------------------------------|----------------------------------------------------|
| STANDARD 20' | PROPORTIONAL 20' | STANDARD 25' | PROPORTIONAL 25' |                                                |                                                    |
| QUANTITY     |                  |              |                  | PART #                                         | DESCRIPTION                                        |
| 2            | 2                | 2            | 2                | 28523                                          | DECAL; MODEL HT40KX                                |
| 1            | 1                | 1            | 1                | 17389                                          | DECAL; VENTURO LOGO, MEDIUM                        |
| 1            | 1                |              |                  | 22342-1                                        | DECAL; BOOM CAPACITY, HT40KX, 10'/16'/20', RIGHT   |
| 1            | 1                |              |                  | 22342-2                                        | DECAL; BOOM CAPACITY, HT40KX, 10'/16'/20', LEFT    |
|              |                  | 1            | 1                | 23064                                          | DECAL; BOOM CAPACITY, HT40KX, 12'/18.5'/25', RIGHT |
|              |                  | 1            | 1                | 23065                                          | DECAL; BOOM CAPACITY, HT40KX, 12'/18.5'/25', LEFT  |
| 1            | 1                | 1            | 1                | 14473-1                                        | DECAL; OIL                                         |
| 7            | 7                | 7            | 7                | 14473-3                                        | DECAL; GREASE                                      |
| 1            | 1                | 1            | 1                | 17813                                          | DECAL; OVERLOAD SENSING SYSTEM                     |
| 1            | 1                | 1            | 1                | 14459                                          | DECAL; OVERLOAD ALARM SYSTEM (OPTIONAL PART)       |
| 1            | 1                | 1            | 1                | 22499                                          | DECAL; KNOW YOUR SIGNALS                           |
| 1            | 1                | 1            | 1                | 20834                                          | DECAL; MANUAL OVERRIDE, INSTRUCTIONS               |
| 1            |                  | 1            |                  | 19315-1                                        | DECAL; MANUAL OVERRIDE, SHUTOFF, STANDARD          |
|              | 1                |              | 1                | 19315-2                                        | DECAL; MANUAL OVERRIDE, SHUTOFF, PROPORTIONAL      |
| 1            |                  | 1            |                  | 19314-1                                        | DECAL; MANUAL OVERRIDE, STANDARD, LEFT             |
| 1            |                  | 1            |                  | 19314-2                                        | DECAL; MANUAL OVERRIDE, STANDARD, RIGHT            |
|              | 1                |              | 1                | 22768-1                                        | DECAL; MANUAL OVERRIDE, PROPORTIONAL, LEFT         |
|              | 1                |              | 1                | 22768-2                                        | DECAL; MANUAL OVERRIDE, PROPORTIONAL, RIGHT        |
| 1            | 1                | 1            | 1                | 22922                                          | IDWG; FIELD SERVICE LABEL KITS, HT40KX             |
| 1            | 1                | 1            | 1                | 28522                                          | IDWG; DECAL PLACEMENTS, HT40/50KX                  |
| 1            | 1                | 1            | 1                | INST-23233                                     | SAFETY MANUAL, VENTURO CRANES                      |
| 1            | 1                | 1            | 1                | 15397                                          | KIT; ACCIDENT PREVENTION SIGNS                     |



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

|                          |            |         |
|--------------------------|------------|---------|
| TITLE                    | DATE       | SECTION |
| FIELD SERVICE LABEL KITS | 07-17-23H  | C400    |
| HT40KX                   | SUPERSEDES | 22922   |
|                          | 06-16-23G  |         |

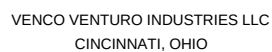
[illegible]

## INSTALLATION MANUALS

|            |
|------------|
| SUPERSEDES |
| -          |

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25431

[illegible]

## INSTALLATION MANUALS

02-23-16

1.

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25431







# VENTURO CRANES LIMITED WARRANTY POLICY

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

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

## 1-Year Limited Warranty Policy

This limited policy warrants new products of Venturo to be free from defects in material and workmanship for a period of one (1) year from date of original installation. OEM products or accessories purchased by Venturo as part of or offered with our product will carry the OEM manufacturer's respective warranty. Our warranty covers:

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

We shall not be liable for any contingent liabilities arising out of the improper function of any products. Warranty shall become void if the product is improperly installed, modified, damaged, abused or used for application other than intended use. There is no warranty of merchantability, fitness for a particular purpose, warranty arising from course of dealing or usage of trade, or any other implied or expressed warranty, except as made specifically herein. This warranty supersedes all previous warranties, written or implied.

## Warranty Claims

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

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

**VENCO VENTURO INDUSTRIES LLC**  
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