



**CT2000, 2003, 2004, 2005
CT2003FB & CT2004FB**

INSTALLATION & OWNER'S MANUAL

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CT/CTFB OWNER'S MANUAL

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VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
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CT/CTFB

DATE
02-04-19E

SUPERSEDES
04-16-14D

SECTION
-

20984

SECTION 100

DESCRIPTION

&

SPECIFICATIONS

WARNING: THESE PRODUCTS ARE NOT PASSENGER LIFTS. THEY ARE NOT DESIGNED OR INTENDED TO BE USED TO LIFT, SUPPORT OR OTHERWISE TRANSPORT PERSONNEL.

SWIVEL SNATCH BLOCK REQUIRED FOR LOADS OVER 1200 LBS.

3/16" DIA WIRE ROPE 35 FT

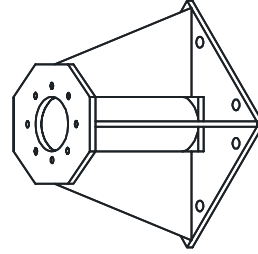
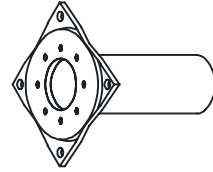
**PLUG IN
PENDANT CONTROL
WITH 15 FT
STRAIGHT CORD**

**SWIVEL LOCK
306° ROTATION
POSITIVE LOCK
IN 8 POSITIONS**

'C' SOCKET

'A' SOCKET

'C' SOCKET



BOOM WILL FOLD WITH BOTH 'A' & 'C' SOCKETS

**BOOM IN FOLDED
POSITION
('A' & 'C' SOCKETS)**

14 13/16

71-3/4"

TRUCK BED

85"
80"
75"

3 FT

4 FT

5 FT

PERFORMANCE CHARACTERISTICS				
BOOM POSITION	LOAD CAPACITY	PART LINE	LIFTING SPEED AT CAPACITY LOAD	
5 FT	1000 LBS	1	15 FT/MIN	
4 FT	1500 LBS	2	9 FT/MIN	
3 FT	2000 LBS	2	8 FT/MIN	

**SNATCH BLOCK REQUIRED FOR LOADS OVER 1200 LBS.
NET WEIGHT WITHOUT SOCKET 195 LBS.**

TITLE

INSTALLATION DRAWING

SECTION

11-21-00A C100

SUPERSEDES

12-12-97

CT2003 FB CRANE

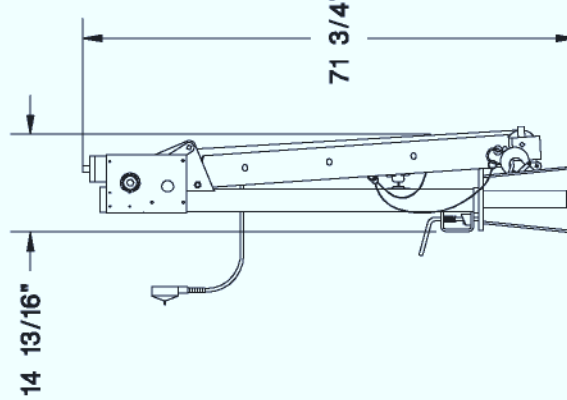
**MANUFACTURING, INC.
CINCINNATI, OHIO**



18580

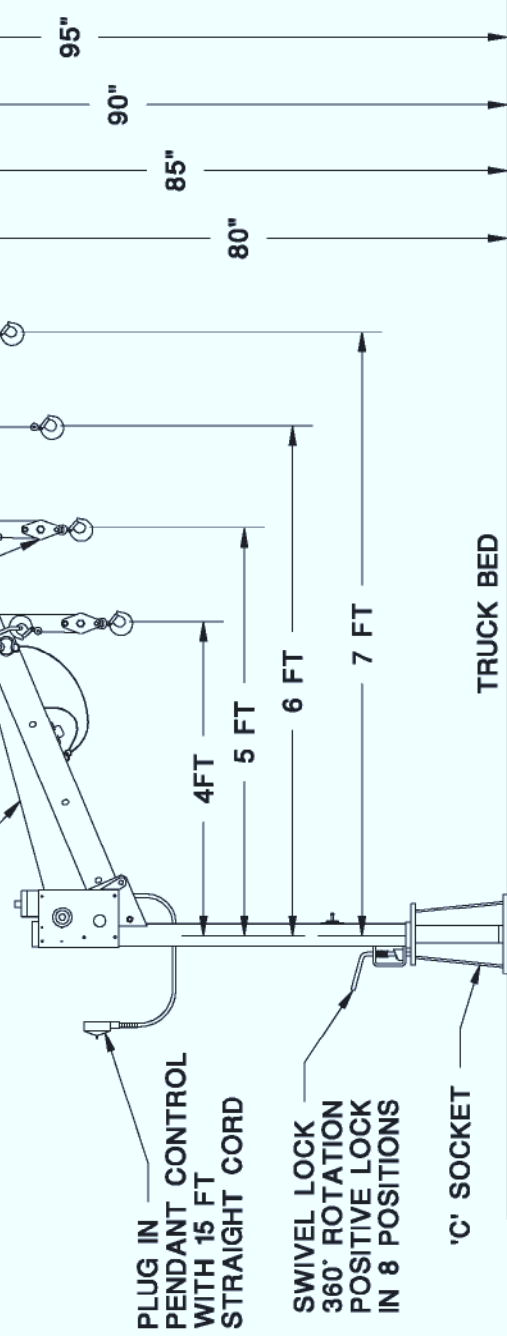
WARNING: THESE PRODUCTS ARE NOT PASSENGER LIFTS. THEY ARE NOT DESIGNED OR INTENDED TO BE USED TO LIFT, SUPPORT OR OTHERWISE TRANSPORT PERSONNEL.

BOOM IN FOLDED POSITION ('C' SOCKET ONLY)

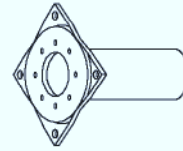


SWIVEL SNATCH BLOCK REQUIRED FOR LOADS OVER 1200 LBS.

3/16" DIA WIRE ROPE 35 FT

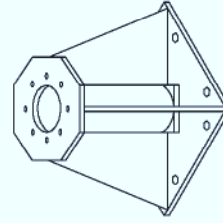


'A' SOCKET



BOOM WILL NOT FOLD WITH 'A' SOCKET

'C' SOCKET



BOOM WILL FOLD WITH 'C' SOCKET

PERFORMANCE CHARACTERISTICS			
BOOM POSITION	LOAD CAPACITY	PART LINE	LIFTING SPEED AT CAPACITY LOAD
7 FT	700 LBS	1	18 FT/MIN
6 FT	900 LBS	1	16 FT/MIN
5 FT	1200 LBS	1	13 FT/MIN
5 FT	1200 LBS	2	10 FT/MIN
4 FT	1500 LBS	2	9 FT/MIN

SNATCH BLOCK REQUIRED FOR LOADS OVER 1200 LBS.

NET WEIGHT WITHOUT SOCKET 200 LBS.

**TITLE
INSTALLATION DRAWING**

**DATE
11-21-00A**

**SECTION
C100**

CT2004 FB CRANE

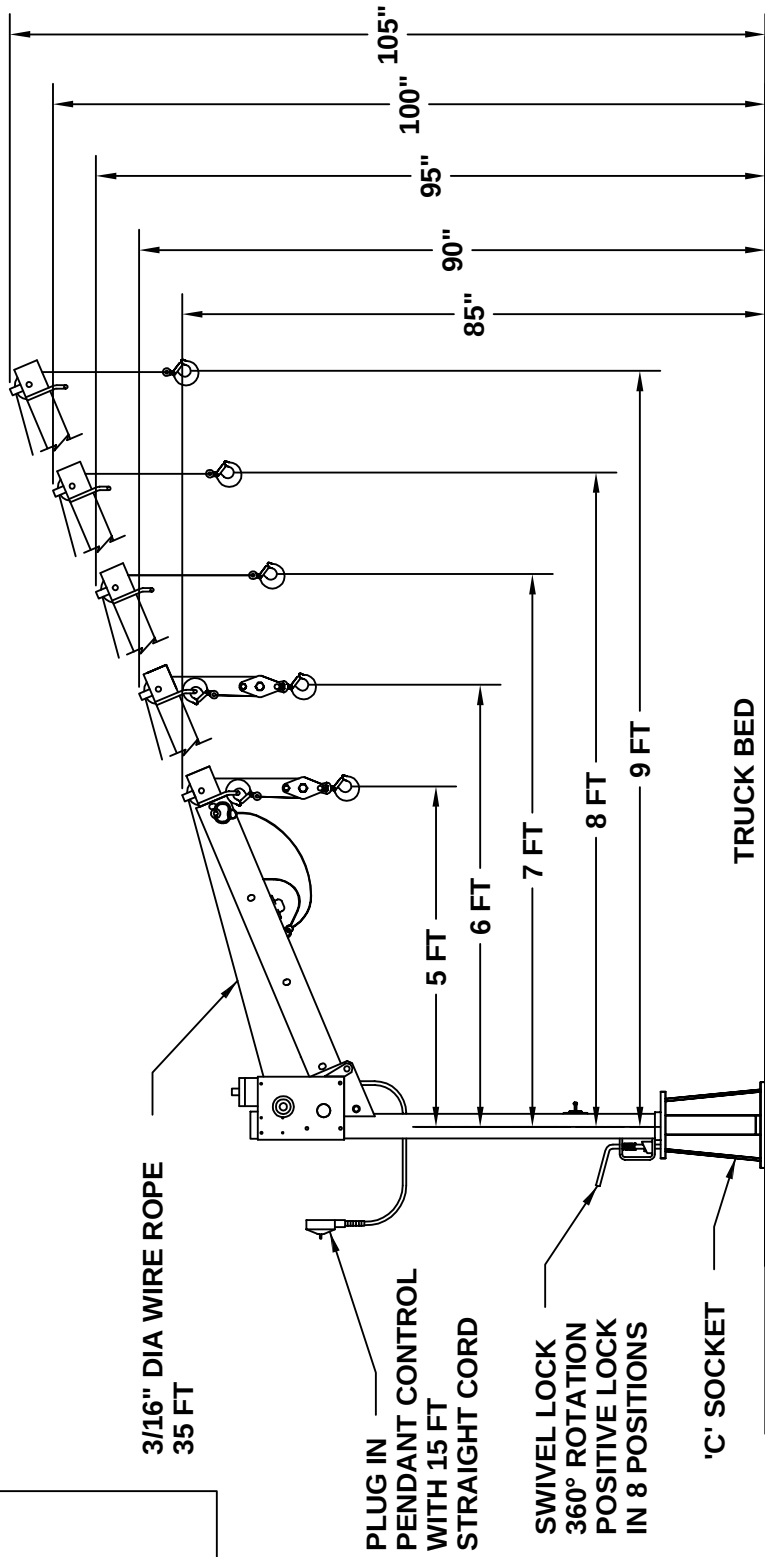
**MANUFACTURING, INC.
CINCINNATI, OHIO**



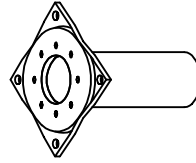
**SUPERSEDES
12-12-97**

18581

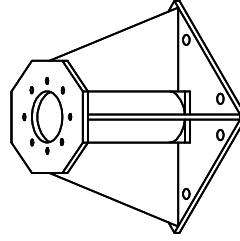
WARNING: THESE PRODUCTS
ARE NOT PASSENGER LIFTS.
THEY ARE NOT DESIGNED OR
INTENDED TO BE USED TO
LIFT, SUPPORT OR OTHERWISE
TRANSPORT PERSONNEL.



'A' SOCKET



'C' SOCKET



PERFORMANCE CHARACTERISTICS			
BOOM POSITION	LOAD CAPACITY	PART LINE	LIFTING SPEED AT CAPACITY LOAD
9 FT	500 LBS	1	20 FT/MIN
8 FT	600 LBS	1	19 FT/MIN
7 FT	700 LBS	1	18 FT/MIN
6 FT	900 LBS	1	16 FT/MIN
5 FT	1200 LBS	1	13 FT/MIN
5 FT	1200 LBS	2	10 FT/MIN

MAXIMUM CAPACITY: 1200 LBS.

BOOM WILL NOT FOLD
WITH 'A' OR 'C' SOCKETS

NET WEIGHT WITHOUT SOCKET 205 LBS.



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE

INSTALLATION DRAWING

CT2005 CRANE

DATE

08-09-19A

SUPERSEDES

12-12-97

SECTION

C100

18584

SWIVEL SNATCH BLOCK
REQUIRED FOR LOADS
OVER 1200 LBS.

3/16" DIA WIRE ROPE
35 FT

SWIVEL LOCK 360° ROTATION
POSITIVE LOCK IN 8 POSITIONS

33 11/16"

30"

TRUCK BED

13 7/16"

PLUG IN
PENDANT CONTROL
WITH 15 FT
STRAIGHT CORD

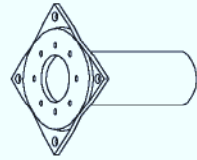
'C' SOCKET

WARNING: THESE PRODUCTS
ARE NOT PASSENGER LIFTS.
THEY ARE NOT DESIGNED OR
INTENDED TO BE USED TO
LIFT, SUPPORT OR OTHERWISE
TRANSPORT PERSONNEL.

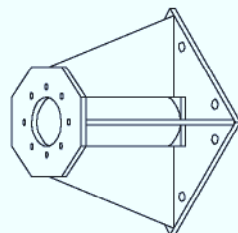
PERFORMANCE CHARACTERISTICS			
BOOM POSITION	LOAD CAPACITY	PART LINE	LIFTING SPEED AT CAPACITY LOAD
9 FT	500 LBS	1	20 FT/MIN
7 FT	700 LBS	1	18 FT/MIN
5 FT	1000 LBS	1	15 FT/MIN
5 FT	1200 LBS	2	10 FT/MIN
3 FT	2000 LBS	2	8 FT/MIN

SNATCH BLOCK REQUIRED
FOR LOADS OVER 1200 LBS.

'A' SOCKET



'C' SOCKET



BOOM WILL NOT FOLD
WITH 'A' OR 'C' SOCKETS

- HEIGHT DIMENSIONS ARE FOR
MAXIMUM CUT-DOWN MODEL
AND ARE APPROX. 39" LESS THAN
STANDARD CTFB CRANES.
- HEIGHT DIMENSIONS ARE FOR
C-SOCKET MODELS
- DEDUCT 12 1/2" FROM HEIGHT
DIMENSIONS FOR A-SOCKET
MODELS

NET WEIGHT W/OUT SOCKET (MAX CUT-DOWN)	
CT2003	155 LBS
CT2004	160 LBS
CT2005	165 LBS

TITLE

INSTALLATION DRAWING

DATE

4-16-98

SECTION

C100

SUPERSEDES

-

TITLE

CT2003/4/5FB-S - MAX CUTDOWN

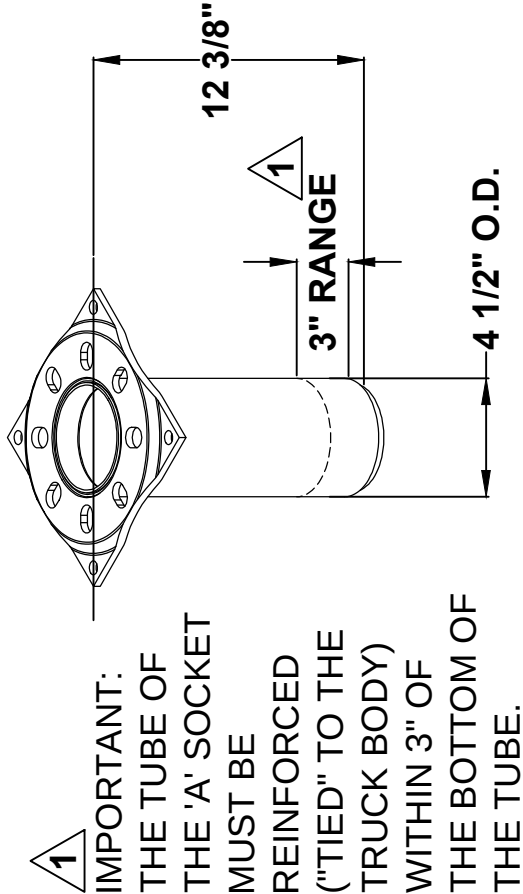
VENTURO MANUFACTURING, INC.
CINCINNATI, OHIO

19481

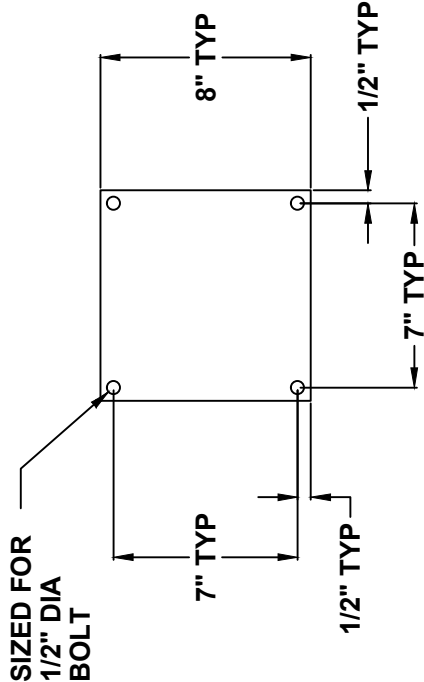
TYPE 'A' SOCKET (13171)

RECESS MOUNTING

WEIGHT 18 LBS.



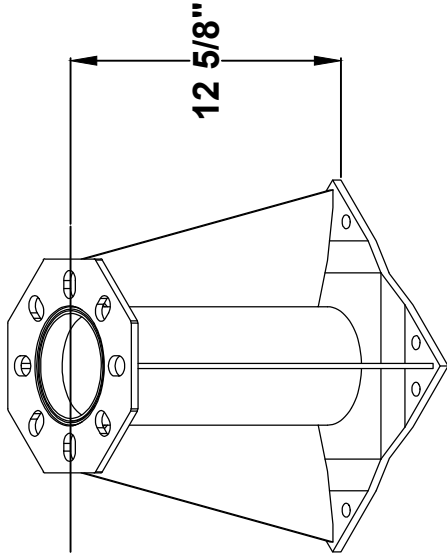
MOUNTING DIMENSIONS



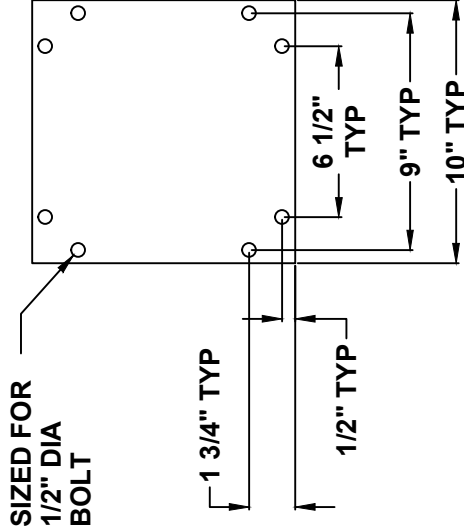
TYPE 'C' SOCKET (13172)

SURFACE MOUNTING

WEIGHT 36 LBS.



MOUNTING DIMENSIONS



 VENCO VENTURO INDUSTRIES LLC CINCINNATI, OHIO	TITLE		SECTION	C100	18585
	INSTALLATION DRAWING		DATE		
	13171 & 13172 SOCKETS		SUPERSEDES	05-03-99B	

SECTION 150

SAFETY

CRANE SAFETY AND HAZARDS

CA, CE, CT, AND DT 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. FOR TRAVEL, BOOM MUST BE TIED DOWN IN THE 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.



MFG., INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DWG

CA, CE, CT, AND DT

DATE
3-2-99C

SUPERCEDES
10-17-97B

SECTION
C150

870701

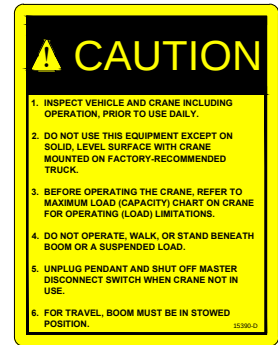
DECAL #: 15390

DESCRIPTION: CAUTION, INSPECT VEHICLE & CRANE...

PURPOSE: TO INFORM THE OPERATOR OF KEY OPERATING REQUIREMENTS.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



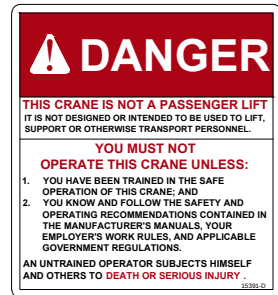
DECAL #: 15391

DESCRIPTION: DANGER, NOT A PASSENGER LIFT

PURPOSE: TO INFORM OPERATOR NOT TO LIFT, SUPPORT, OR TRANSPORT PERSONNEL, AND TO ENSURE OPERATOR IS ADEQUATELY TRAINED.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



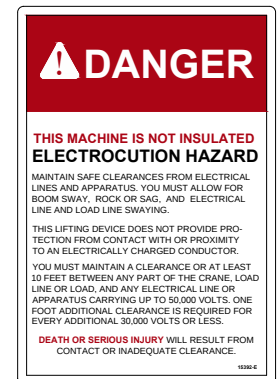
DECAL #: 15392

DESCRIPTION: DANGER, ELECTROCUTION HAZARD, MACHINE (CRANE)

PURPOSE: TO INFORM OPERATOR THAT MACHINE (CRANE) REPRESENTS AN ELECTROCUTION HAZARD SHOULD IT COME CLOSE TO OR IN CONTACT WITH AN ELECTRICAL VOLTAGE SOURCE.

QUANTITY: 1

PLACEMENT: REAR COVER OR SIDE OF CRANE



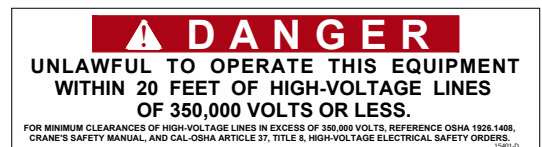
DECAL #: 15401

DESCRIPTION: DANGER, UNLAWFUL TO OPERATE

PURPOSE: TO INFORM OPERATOR OF PROPER OPERATION IN VICINITY OF ELECTRICAL LINES.

QUANTITY: 1

PLACEMENT: RING COVER OR SIDE OF CRANE



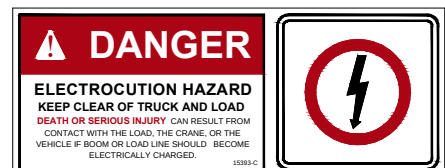
DECAL #: 15393

DESCRIPTION: DANGER, ELECTROCUTION HAZARD, VEHICLE (TRUCK)

PURPOSE: WARNS OF DANGER FROM ELECTRICALLY CHARGED VEHICLE, CRANE, OR LOAD.

QUANTITY: 4

PLACEMENT: EACH SIDE & EACH END OF VEHICLE



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
SAFETY DECALS
VENTURO CRANES

DATE
04-29-16E
SUPERSEDES
10-24-13D

SECTION
C150
21353

PART NO.: 15513

DECAL: MASTER DISCONNECT SWITCH

FUNCTION: To inform the operator of location and operation of master disconnect switch.

QUANTITY: 1

PLACEMENT: On master disconnect switch bracket.



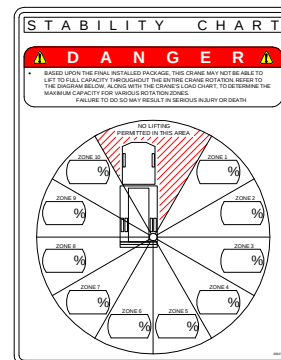
PART NO.: 20927

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
SAFETY DECALS
CRANES

DATE
06-06-14C
SUPERSEDES
04-02-13B

SECTION
C150
21384

PART NO.: 15398

DECAL: UNPLUG REMOTE CONTROL

FUNCTION: To inform the operator to unplug remote control when not in use.

QUANTITY: 1

PLACEMENT: Near pendant socket.



PART NO.: 13191-12

DECAL: USE SNATCH BLOCK

FUNCTION: To inform the operator when to use a snatch block.

QUANTITY: 2

PLACEMENT: One on each side of boom.



DECAL #: 19734
DESCRIPTION: MODEL NUMBER
PURPOSE: To show the model of the crane.
QUANTITY: 2
PLACEMENT: One of each side of boom.



DECAL #: 15672-1000
DESCRIPTION: CAPACITY 1000LBS
PURPOSE: To show the operator the capacity at 5 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



DECAL #: 15672-1600
DESCRIPTION: CAPACITY 1600LBS
PURPOSE: To show the operator the capacity at 4 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



DECAL #: 15672-2000
DESCRIPTION: CAPACITY 2000LBS
PURPOSE: To show the operator the capacity at 3 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MODEL & CAPACITY DECALS

CT2003FB

DATE
03-04-19A

SUPERSEDES
09-13-05

SECTION
C150

21367

DECAL #: 19735
DESCRIPTION: MODEL NUMBER
PURPOSE: To show the model of the crane.
QUANTITY: 2
PLACEMENT: One on each side of boom.

CT2004FB

DECAL #: 15672-700
DESCRIPTION: CAPACITY 700LBS
PURPOSE: To show the operator the capacity at 7 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.

**CAPACITY
700 LBS**

DECAL #: 15672-900
DESCRIPTION: CAPACITY 900LBS
PURPOSE: To show the operator the capacity at 6 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.

**CAPACITY
900 LBS**

DECAL #: 15672-1200
DESCRIPTION: CAPACITY 1200LBS
PURPOSE: To show the operator the capacity at 5 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.

**CAPACITY
1200 LBS**

DECAL #: 15672-1500
DESCRIPTION: CAPACITY 1500LBS
PURPOSE: To show the operator the capacity at 4 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.

**CAPACITY
1500 LBS**



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MODEL & CAPACITY DECALS

CT2004FB

DATE
03-04-19A

SUPERSEDES
09-13-05

SECTION
C150

21368

DECAL #: 19736
DESCRIPTION: MODEL NUMBER
PURPOSE: To show the model of the crane.
QUANTITY: 2
PLACEMENT: One on each side of boom.



DECAL #: 15672-500
DESCRIPTION: CAPACITY 500LBS
PURPOSE: To show the operator the capacity at 9 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



DECAL #: 15672-600
DESCRIPTION: CAPACITY 600LBS
PURPOSE: To show the operator the capacity at 8 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



DECAL #: 15672-700
DESCRIPTION: CAPACITY 700LBS
PURPOSE: To show the operator the capacity at 7 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



DECAL #: 15672-900
DESCRIPTION: CAPACITY 900LBS
PURPOSE: To show the operator the capacity at 6 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



DECAL #: 15672-1200
DESCRIPTION: CAPACITY 1200LBS
PURPOSE: To show the operator the capacity at 5 foot boom length.
QUANTITY: 2
PLACEMENT: One on each side of boom.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE
MODEL & CAPACITY DECALS

CT2005

DATE
03-04-19A

SUPERSEDES
09-13-05

SECTION
C150

21369

SECTION 200

INSTALLATION



OPERATING INSTRUCTIONS

CA, CE, CT, & DT CRANES

ELECTRIC WINCH

The winch is operated by a control switch in a plug-in remote pendant. Unplug the pendant and store it in the vehicle when the crane is not in use.

TELESCOPING BOOM

On CE6K, CT & DT Cranes the boom can be manually extended. The hole in the extension section of the boom should be aligned with the slot in the stationary section at the position desired and the toggle pin inserted. The crane lifting capacity is shown at each toggle pin position on the CT & DT cranes. The CE6K has a decal on the mast which shows the capacities of the crane at its various angles and extensions.

SWIVEL SNATCH BLOCK

On CA2000, CT200X, and DT Cranes, the swivel snatch block must be used for loads over 1200 lbs. On the CE6K, the swivel snatch block must be used on loads over 1000 lbs. It may also be used for lower loads to reduce lifting speed for better control and to prevent loads from spinning. CA1000 & CT100X Cranes have a permanently rigged swivel block.

SWIVEL LOCK

On the CT & DT Cranes the hand lever operated swivel lock controls the 360° rotation of the crane and provides positive locking in 8 positions.

BAND BRAKE

The CE6K is equipped with a band brake that provides unlimited rotational positioning.

BOOM TIE DOWN

The load line should be used to tie down the boom to the socket or truck bed while the crane is not in use.

OPTIONAL MASTER DISCONNECT SWITCH

This switch should be turned "OFF" when the crane is not in use to disconnect the crane from the battery.

MAINTENANCE

The crane should be lubricated when the vehicle is serviced.

WINCH GEAR BOX (CT & DT cranes only) ▲

Check the oil level by removing the plug in the side of the gear box. If the oil level is below the plug opening, fill with SAE 85W-140 Hypoid gear oil.

WINCH DRIVE CHAIN (CT & DT cranes only) ▲

Oil lightly. **DO NOT GREASE.** Excess oil or grease will collect dirt and cause excessive chain wear. Inspect the chain and sprockets for excessive wear and proper alignment. Replace if excessively worn.

CRANE SOCKET SWIVEL BEARINGS

The crane should be removed from the socket once a year or more often if excessive dirt is present. Dirt should be cleaned out from around the lower bearing. Use a rag or brush to apply a light weight oil several times to the lower and upper bearings which are both oilite bronze except for the CE, CT200X & DT Cranes upper bearing which does not require lubrication.



MFG., INC.
CINCINNATI, OHIO

TITLE
INSTALLATION DWG

CA, CE, CT, & DT

DATE
8-01-01C

SUPERCEDES
3-3-99B

SECTION
C200

870702

!! IMPORTANT !!

ADEQUATE WIRING IMPERATIVE FOR PROPER OPERATION

1. PROPER GROUND PATH - SEE DWG 15660
2. CURRENT DRAW IS SEVERAL HUNDRED AMPERES - ADEQUATE WIRE SIZE AND BATTERY CAPACITY IS ABSOLUTELY ESSENTIAL (SEE CHART BELOW).

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE

▲ MINIMUM WIRE GAUGE AND AUXILIARY BATTERY SIZE										
MODEL	TOTAL LENGTH OF CABLE (FT) *								▲ 12 VOLT AUXILIARY BATTERY REQUIREMENTS	
	0-20	21-25	26-30	31-40	41-50	51-60	61-70	71-80	CCA (A) **	RC (MIN) ***
▲ CE1500 CE6K CT2000 CT2003/4/5 DT7K	#4	#4	#2	#2	#1	#0	#0	#00	350	100
ET5500MPB ET5500R ET6KMPB ET6KR ET6K ET8K ET10K ET12K	#2	#2	#1	#0	#00	NOT RECOMMENDED			450	100
ET8KX ET10KX ET12KX ▲ ET12KXP	#2	#2	#1	#0	#00	NOT RECOMMENDED			550	150
ET18K(X) ET25K(X) ET30KX ET36KX	SEE DRAWING 15660 FOR CABLE AND BATTERY REQUIREMENTS									

* INCLUDES GROUND CABLE

** CCA = COLD CRANKING AMPS AT 0° (F).

*** RC = RESERVE CAPACITY IN MINUTES AT 25 AMPS AND 80° (F).
THE RC RATING IS A MEASURE OF THE PERIOD OF TIME THE BATTERY CAN
SUPPLY A GIVEN CURRENT WITHOUT RECHARGING.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

CABLE & BATTERY

DATE

07-30-18X

SECTION

C200

ELECTRIC CRANES

SUPERSEDES

09-27-17W

711105

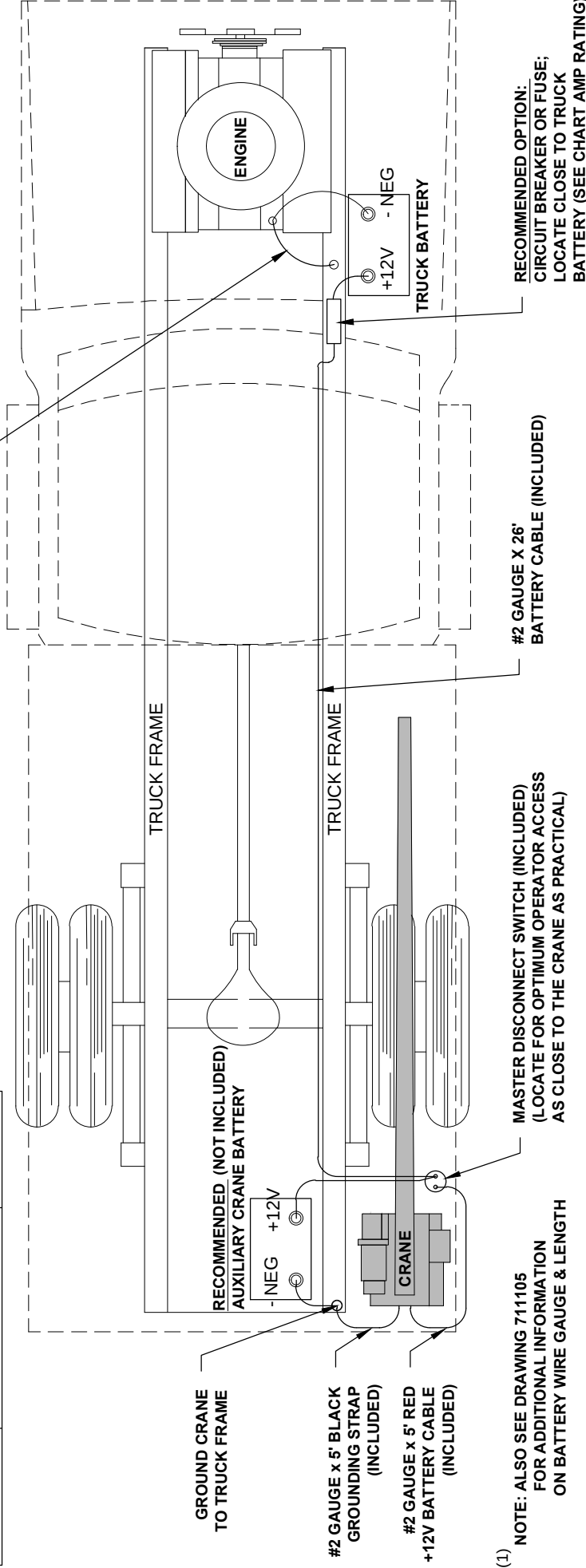
RECOMMENDED CIRCUIT BREAKER TABLE		
CRANE	DESCRIPTION	PART NO.
CT310KX	250 AMP, MAN RESET	22946-250
DT7	250 AMP, MAN RESET	22946-250
CE-1500-FB	150 AMP, MAN RESET	22946-150
CE6K	150 AMP, MAN RESET	22946-150
CT200X	250 AMP, MAN RESET	22946-250
ET6K	250 AMP, MAN RESET	22946-250
ET8/12K(X)	250 AMP, MAN RESET	22946-250
ET12KXP	300 AMP, MAN RESET	22946-300
ET16/18KX-16'	250 AMP, MAN RESET	22946-250
ET16/18KX-20'	300 AMP, MAN RESET	22946-300
ET25/30KX	300 AMP, AUTO RESET	22946-300
ET36KX	300 AMP, AUTO RESET	22946-300

BATTERY REQUIREMENTS

- 12 VOLT *VEHICLE* BATTERY REQUIREMENTS
 - 625 COLD CRANKING AMPS (AT 0° F)
 - 160 MINUTES RESERVE CAPACITY
 - 102 PLATES, 105 AMP-HR
- (1)
- 12 VOLT *AUXILIARY* BATTERY REQUIREMENTS
 - SEE MINIMUM WIRE GAUGE AND BATTERY SIZE

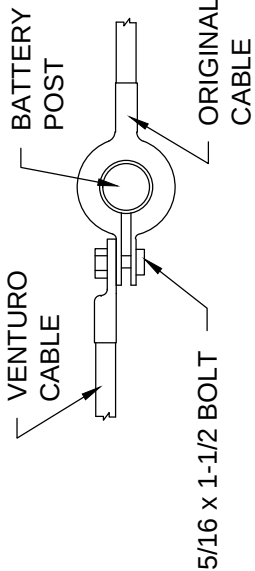
NOTE: OPERATING WITH THE VEHICLE BATTERY 'ONLY' IS PERMISSIBLE, BUT NOT RECOMMENDED.

INSTALL #2 GAUGE GROUND STRAP FROM ENGINE TO TRUCK FRAME
(REQUIRED IF NEGATIVE FROM BATTERY IS CONNECTED TO ENGINE)



(1) NOTE: ALSO SEE DRAWING 711105 FOR ADDITIONAL INFORMATION ON BATTERY WIRE GAUGE & LENGTH

RECOMMENDED BATTERY TERMINAL ATTACHMENT





WIRE ROPE SPECIFICATIONS

SELECTION

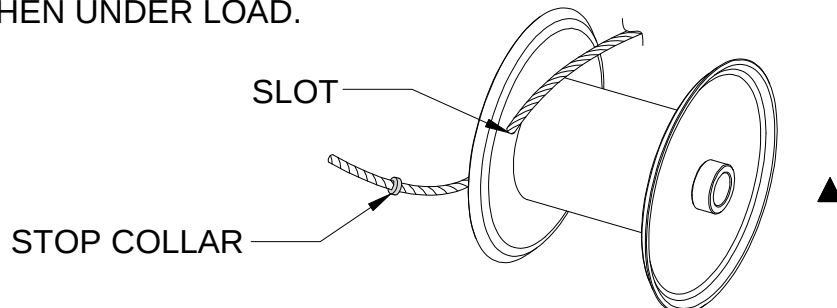
The chart below shows the maximum working load and breaking strength of 7 x 19 Galvanized AIRCRAFT Grade Wire Rope in various diameters. The breaking strength is 3 ½ times the maximum working load. Do not use wire rope with a maximum working load rating less than the single line capacity of the crane. Use wire rope diameter larger than the size furnished with the crane will reduce the fatigue life of the wire rope.



WIRE ROPE DIAMETER	MAXIMUM WORKING LOAD	BREAKING STRENGTH
1/8"	570 LBS.	2000 LBS.
5/32"	800 LBS.	2800 LBS.
3/16"	1200 LBS.	4200 LBS.
7/32"	1600 LBS.	5600 LBS.
1/4"	2000 LBS.	7000 LBS.
5/16"	2800 LBS.	9800 LBS.
3/8"	4114 LBS.	14400 LBS.

INSTALLATION

1. Unwind coil of rope by rolling it along the floor. This will prevent kinking
2. Most VENTURO cranes are provided with a slot in the winch side plate for attaching the end of the wire rope with a stop collar. A hole in the housing allows access for the end of the wire rope when inserted thru the slot.
The ET20K(X) & ET25K(X) cranes have a clamp built into the winch drum and do not use a stop collar.
3. THERE MUST ALWAYS BE AT LEAST THREE [3] TURNS OF WIRE ROPE ON THE DRUM WHEN UNDER LOAD.



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
WIRE ROPE SPECS
WINCH & CRANE

DATE
12-05-13K
SUPERSEDES
11-10-08J

SECTION
WC 200
711006

SECTION 400

PARTS



This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or motor. The components are numbered 1 through 47. The assembly includes a main housing (15), a central shaft (14), a motor or actuator (17), and various internal gears (8, 10, 13, 26, 27) and bearings (2, 4, 9, 10, 13, 26, 27). The diagram also shows a mounting bracket (11), a base plate (18), and a flange (20). The components are arranged in a way that shows their relative positions and how they fit together.



FREE REPLACEMENT PARTS DWG

SUPERSEDES
11-4-98

19711

ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	20982	FLANGED BEARING - 3/4" I.D. X 1-3/4" O.D.	41	!LWSH-038	LOCK WASHER - 3/8" (4 PLC)
2	00210	THRUST COLLAR - 3/4" BORE	42	19333	BOOM WELDED ASSEMBLY - 3 FT
3	15999	SPROCKET - 3/4" BORE	43	19334	BOOM WELDED ASSEMBLY - 4 FT
4	00867-1	WINCH DRIVE CHAIN (NO CONNECTING LINKS) 50 LINKS	44	19335	BOOM WELDED ASSEMBLY - 5 FT
5	19678	SWIVEL SNATCH BLOCK WITH SAFETY LATCH	45	18541-36-ASSY	PIN ASSEMBLY - 3/4" O.D. x 3-1/2" LONG - 3 FT BOOM EXT
6	15810-3/16-35	WIRE ROPE ASSEMBLY - 3/16" x 35 FT	46	18541-48-ASSY	PIN ASSEMBLY - 3/4" O.D. x 3-1/2" LONG - 4 FT BOOM EXT
7	13463-1	STOP SLEEVE	47	18541-60-ASSY	PIN ASSEMBLY - 3/4" O.D. x 3-1/2" LONG - 5 FT BOOM EXT
8	01149	CABLE DRUM	48	-	-
9	01153	MAIN SHAFT - CABLE DRUM	49	-	-
10	01158	THRUST COLLAR - MAIN SHAFT - 1" BORE	50	-	-
11	19590	CONTACTOR, SOCKET & COVER SUB ASSEMBLY	51	15545-3	FIELD SERVICE LABEL KIT - CT2003FB
12	13401-2B	PIVOT PIN - CYL ROD	52	15545-4	FIELD SERVICE LABEL KIT - CT2004FB
13	01299	FLANGED BEARING - 1" ID x 2" OD	53	15545-5	FIELD SERVICE LABEL KIT - CT2005
14	11889	SPRING	54	-	-
15	19331	WELDED MAST ASSEMBLY	55	-	-
16	14785	LOCK BOLT	56	-	-
17	16105-1	WINCH POWER UNIT	57	-	-
18	16972	CHAIN COVER	58	-	-
19	-	-	59	-	-
20	13171	MOUNTING SOCKET - TYPE A	60	-	-
21	13172	MOUNTING SOCKET - TYPE C	61	-	-
22	20179	BEARING - 4" ID x 1" WIDTH	62	-	-
23	11893	BEARING - 1.5" ID x 9/16" WIDTH	63	-	-
24	18542	BOOT - MOTOR TERMINAL	64	-	-
25	18541	PIN ASSEMBLY - 3/4" OD x 3-1/2" LONG - BOOM ELEVATION	65	-	-
26	12534-8	BUSHING - 1" ID x 1-1/2" OD x 14 GA	66	-	-
27	12534-9	BUSHING - 1" ID x 1-1/2" OD x 18 GA	67	-	-
28	-	-	68	-	-
29	19646	SHEAVE WITH BRONZE BUSHING	69	-	-
-	-	-	70	-	-
31	13168-2	SLEEVE - MIN RUN 30	71	-	-
32	!HHCS06311175	HEX HEAD CAP SCREW - 5/8"-11 x 1-3/4"	72	-	-
33	!JUNUT-06311N	JAM LOCK NUT - 5/8"-11	73	-	-
34	!RPIN-016125	ROLL PIN - 5/32" x 1-1/4"	74	-	-
35	!HHCS03816300	HEX HEAD CAP SCREW - 3/8"-16 x 3"	75	-	-
36	!HHCS03816150	HEX HEAD CAP SCREW - 3/8"-16 x 1-1/2" (3 PLC)	76	-	-
37	!RPIN-019125	ROLL PIN - 3/16" x 1-1/4"	77	-	-
38	!RPIN-031125	ROLL PIN - 5/16" x 1-1/4"	78	-	-
39	!HHCS03816100	HEX HEAD CAP SCREW - 3/8"-16 x 1"	79	-	-
40	-	-	80	-	-

⚠ ITEM NOT SHOWN ON REPLACEMENT PARTS DRAWING

REPLACEMENT PARTS DRAWING REF 19711



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE REPLACEMENT PARTS

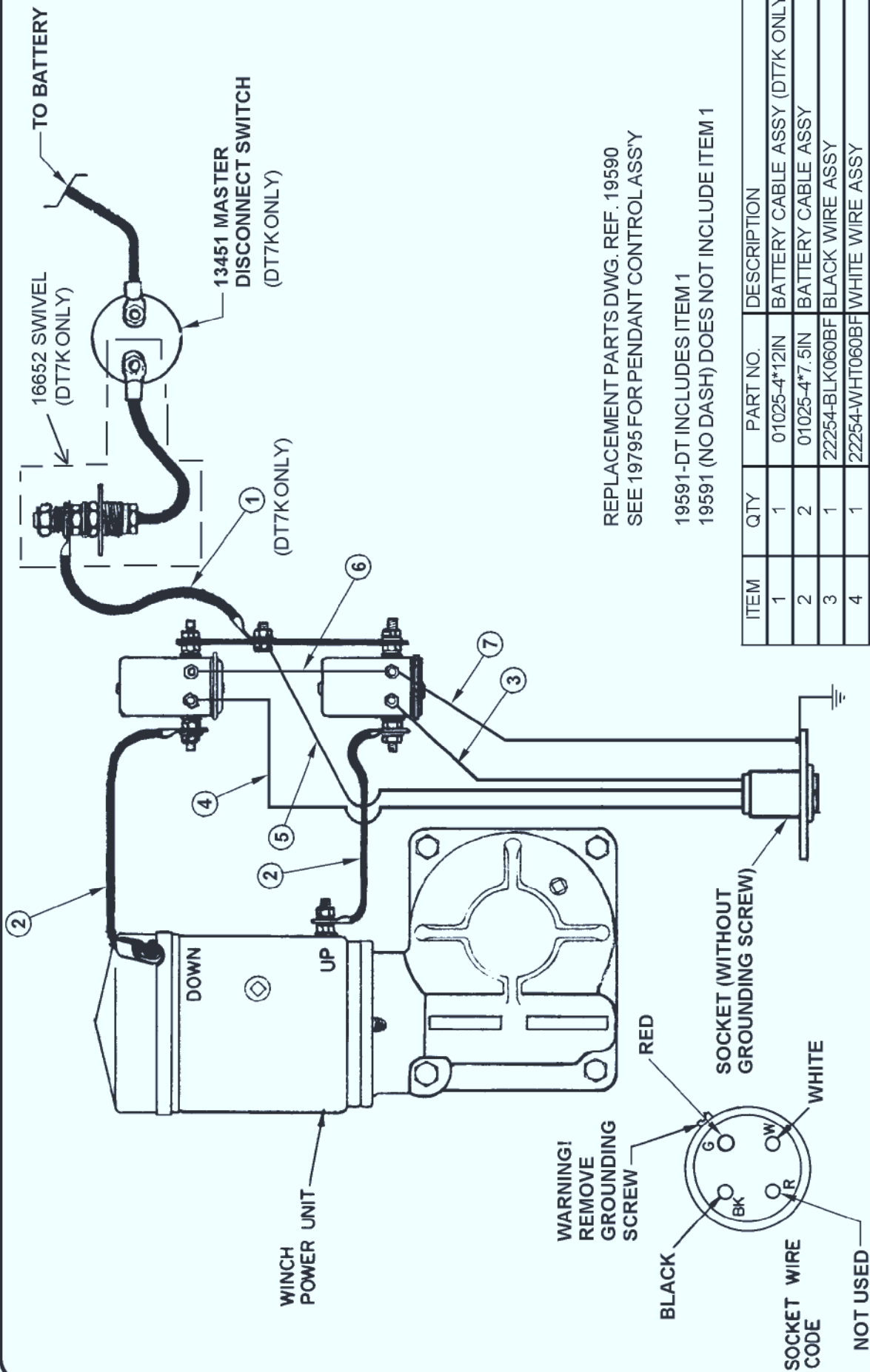
CT2003FB/CT2004FB/CT2005

DATE 5-12-04

SUPERCEDES -

SECTION C400

20985



REPLACEMENT PARTS DWG. REF. 19590
SEE 19795 FOR PENDANT CONTROL ASSY

19591-DT INCLUDES ITEM 1
19591 (NO DASH) DOES NOT INCLUDE ITEM 1

ITEM	QTY	PART NO.	DESCRIPTION
1	1	01025-4*12IN	BATTERY CABLE ASSY (DT7K ONLY)
2	2	01025-4*7.5IN	BATTERY CABLE ASSY
3	1	22254-BLK060BF	BLACK WIRE ASSY
4	1	22254-WHT060BF	WHITE WIRE ASSY
5	1	22254-RED035CF	RED WIRE ASSY
6	1	22254-GRN045BB	GREEN WIRE ASSY (JUMPER)
7	1	22254-GRN038BC	GREEN WIRE ASSY (GROUND)

MANUFACTURING, INC.
CINCINNATI, OHIO

VENTURO

TITLE WIRING KIT / DIAGRAM

DATE 1-13-03E

SECTION C400

SUPERCEDES 1-10-03D

19591

CT2003/4/5(FB), DT7K

REPLACES 16635

WIRING SCHEMATIC REF 19591

ITEM	QTY	PART NO	DESCRIPTION
1	1	19591	WIRING KIT
2	1	12102-1R	SOCKET 4 POLE LESS GROUND SCREW HOLE
3	2	15831C	CONTACTOR
4	1	16634	CONTACTOR COVER
5	1	1181	BUSS BAR
6	2	16637	GROMMET - 5/8" I.D. x 7/8" O.D. x 1/16" GROOVE
7	1	!HCS03118075-B	HEX HEAD CAP SCREW - 5/16"-18 x 3/4" LG BRASS
8	2	!HNUT-03118-B	HEX NUT - 5/16"-18 BRASS
9	3	!LWSH-031-STAR	STAR LOCKWASHER - 5/16"
10	1	15398	DECAL - UNPLUG PENDANT
11	2	18542	BOOT - MOTOR TERMINAL
12	2	!UNUT15195-1420	U-NUT - 1/4"-20
13	1	14858-1	PLUG - 7/8"
14	2	!PHCS02520063	PAN HEAD CAP SCREW - 1/4"-20 x 5/8"
15	2	!HWHS02520075-F	HEX WASHER HEAD - 1/4"-20 x 3/4" SELF TAPPING
16	2	!LWSH-025	LOCK WASHER - 1/4"
17	2	!HNUT-02520	HEX NUT - 1/4"-20



MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
CONTACTOR ASSEMBLY

DATE
3-5-99B

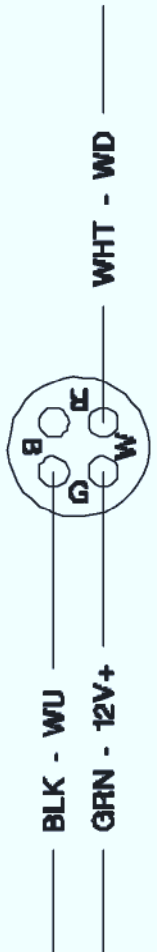
SECTION
-

SUPERCEDES
1-27-99A

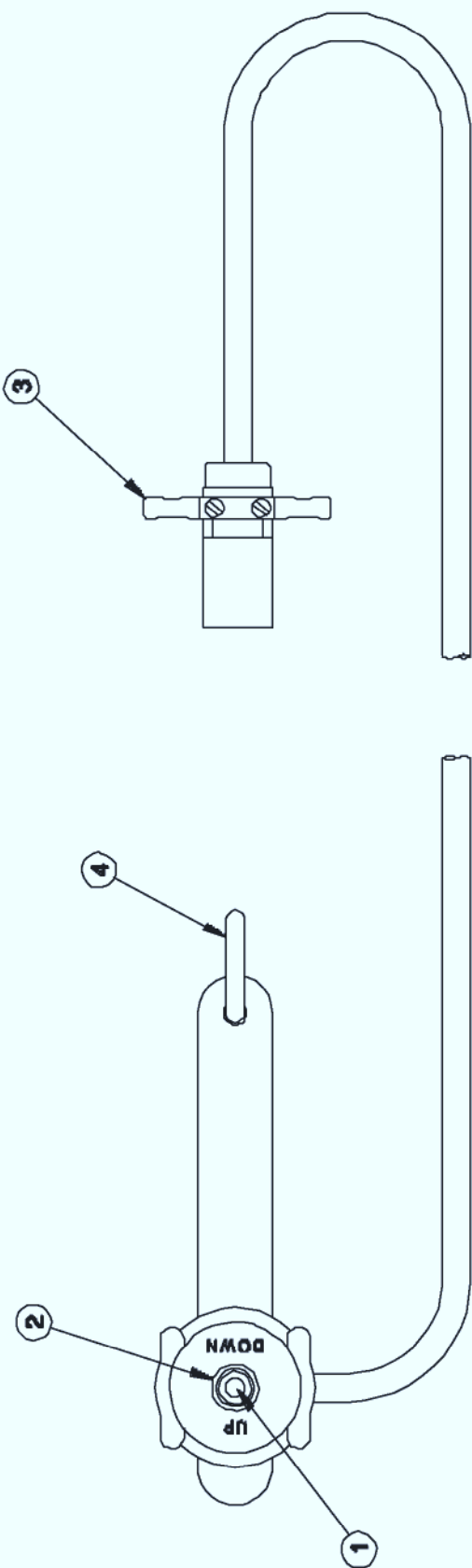
CT/DT CRANES

19590

19797 SINGLE SWITCH PENDANT



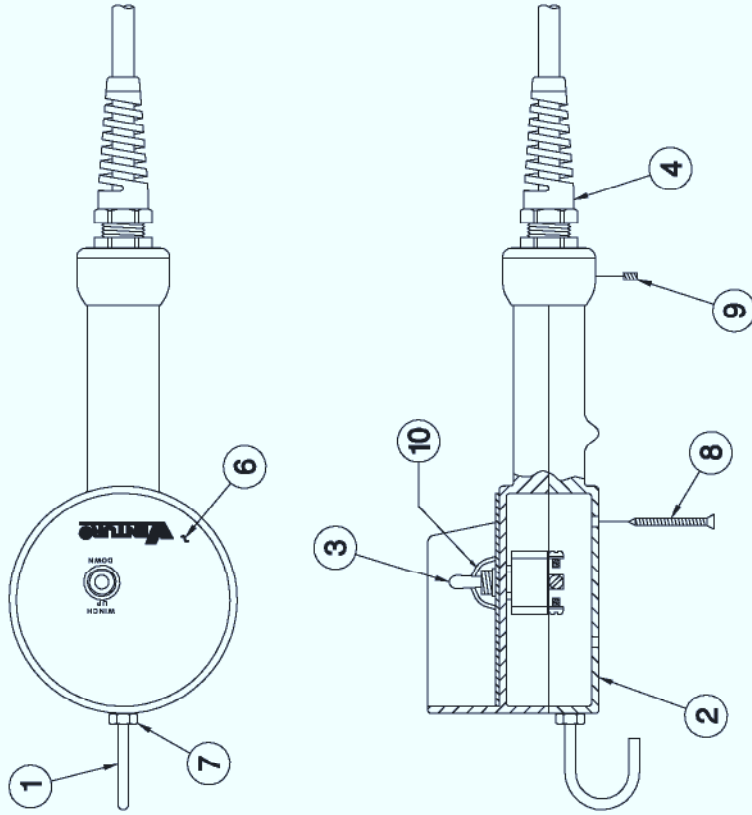
PLUG - BACKSIDE VIEW



ITEM	QTY	PART NO.	DESCRIPTION
4	1	19794	D-RING
3	1	12102-2	PLUG - 4 POLE
2	1	19793	TOGGLE BOOT
1	1	13763	TOGGLE SWITCH

VENTURO MANUFACTURING, INC. CINCINNATI, OHIO	TITLE REPL. PARTS DWG.		DATE 7-14-99	SECTION C400
	1 FUNCTION CRANES		SUPPLIES -	19795

19448 AC PENDANT CONTROL



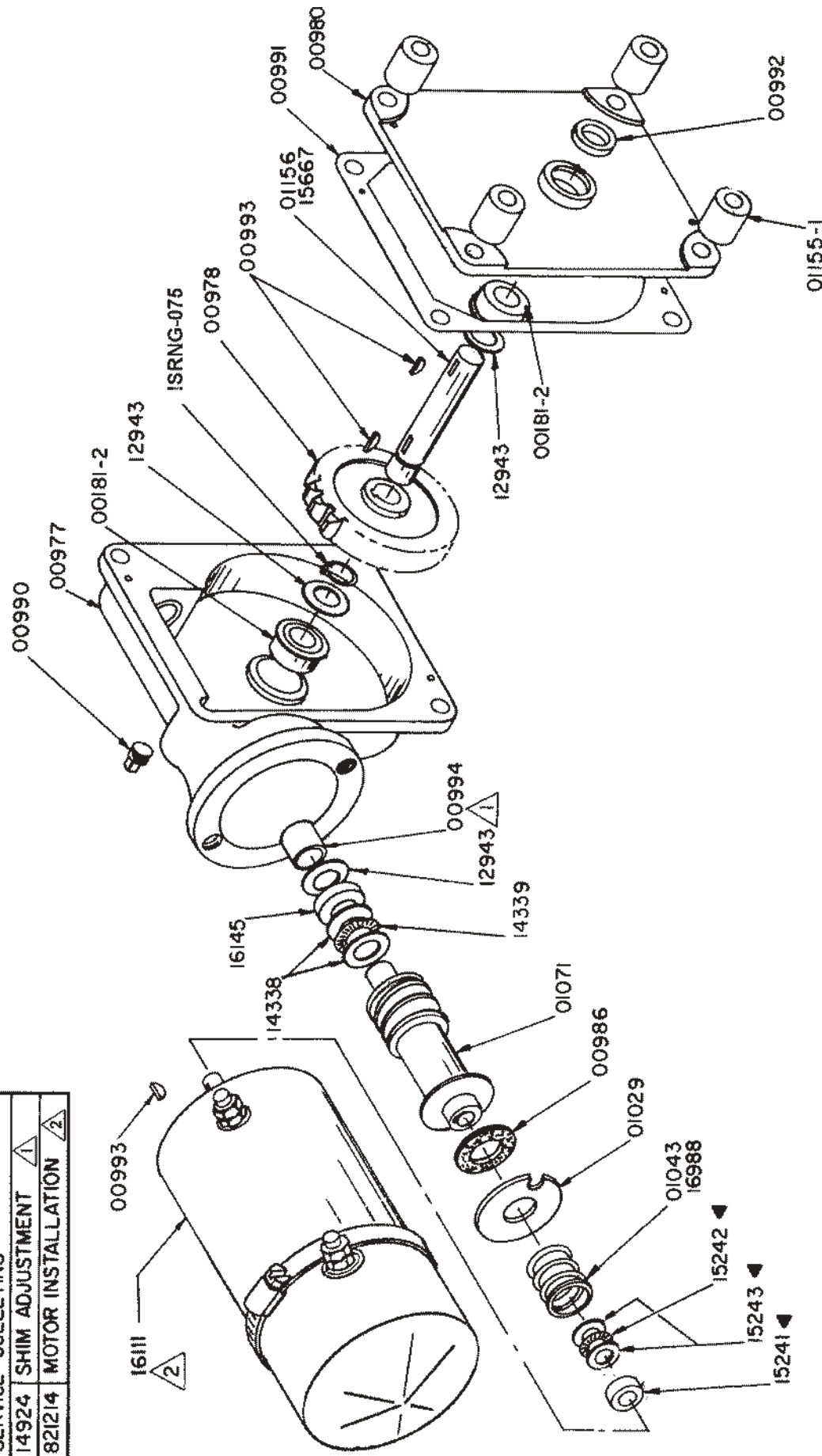
SEE 112105 FOR SWITCH WIRING INFORMATION

NOTE: ITEM 3 (P/N 20449) MUST BE SOLD AS
A COMPLETE ASSEMBLY.

ITEM	QTY	PART NO.	DESCRIPTION
10	1	19793	TOGGLE HALF-BOOT
9	1	ISHCS#832038SS	SET SCREW - #8-32 x 3/8"
8	4	IFHPS#10150A	FLAT HEAD PHILLIPS SCREW - #10 x 1 1/2" LG
7	2	IHNUT-02520	HEX NUT - 1/4-20
6	1	19447	LOGO PLATE, PENDANT CONTROL
5	-	-	-
4	1	25534	3/4" STRAIN RELIEF
3	1	20449	SWITCH & CORD ASSEMBLY
2	1	19374	PENDANT HOUSING
1	1	11557	PENDANT HOOK

TITLE	DATE	SECTION
REPLACEMENT PARTS DRAWING	4-2-02C	C400
19448 AC PENDANT CONTROL	SUPERSEDES 9-13-01B	20448

SERVICE BULLETINS		
14924	SHIM ADJUSTMENT	1
821214	MOTOR INSTALLATION	2



SEE DWG. 14924/14926 FOR SERVICE INSTRUCTION

16100 SERIES POWER UNITS

VENTURO
MANUFACTURING, INC.
CINCINNATI, OHIO

TITLE
REPLACEMENT PARTS

DATE
5-9-06F

SECTION
C450

WINCH & CRANE

SUPERCEDES
4-14-04E

I16100

REPLACEMENT PARTS LIST - 16100 ELECTRIC POWER UNIT

MODEL(S): ET5500MPB, ET6KM, ET6KR

PART NO.	DESCRIPTION
16101 16102 16105 16105-1 16106 16107	POWER UNIT - LONG SHAFT - ET5500R WINCH ² POWER UNIT - SHORT SHAFT - ET5500R ROTATION POWER UNIT - LONG SHAFT - CA 2000, CT 2003, WA/SL 3000 (WITH SPACERS) POWER UNIT - LONG SHAFT - CA 2000, CT 2003/4/5(FB), WA/SL 3000 (WITHOUT SPACERS) POWER UNIT - LONG SHAFT ³ POWER UNIT - SHORT SHAFT - ET5500R ROTATION
00181-2 00977 00978 00980 * 00986	FLANGE BEARING - 3/4" BORE x 1 3/4" O.D. GEAR CASE (INCLUDES 00994 BUSHING) WORM GEAR BASE PLATE (00980-1) & INSERT (00980-2) ASSEMBLY BRAKE DISC
* ISRNG-075 00990 * 00991 * 00992 ⁴ * 00993	RETAINING RING - 3/4" OIL PLUG - 1/4" PIPE GASKET OIL SEAL KEY - #9 WOODRUFF
00994 01029 01043 ⁴ 01071 01155-1	BUSHING BRAKE PLATE BRAKE SPRING (16102 & 16107 ROTATION POWER UNIT ONLY) WORM SHAFT SPACER (16105 ONLY)
01156 * 12943-1 ⁴ * 12943-2 ⁴ * 12943-3 ⁴ 14338	WORM GEAR SHAFT - 3/4" x 5 3/16" LONG (16105 & 16106 ONLY) SHIM WASHER - .005" THICK (AS REQUIRED) SHIM WASHER - .015" THICK (AS REQUIRED) SHIM WASHER - .030" THICK (AS REQUIRED) NEEDLE THRUST RACE 3/4" I.D.
14339 15241 15242 15243 15667	NEEDLE THRUST BEARING 3/4" I.D. SPACER (INSTALL NEXT TO MOTOR) ⁴ NEEDLE THRUST BEARING 5/8" I.D. NEEDLE THRUST RACE .092" x 5/8" I.D. WORM GEAR SHAFT - 3/4" x 4 3/16" LONG (16102 & 16107 ONLY)
16111 ⁴ 16145 16988 ⁴	MOTOR - 12 VOLT 4 1/2" DIAMETER SPACER BRAKE SPRING (16101, 16105 & 16106 WINCH POWER UNITS ONLY)
14889 15290	MOTOR REPAIR KIT SMALL PARTS KIT (INCLUDES ITEMS MARKED *)

¹ AVAILABLE ONLY AS PART OF 15290 SMALL PARTS KIT

² 16101 POWER UNIT REPLACED BY 16106 POWER UNIT
16102 POWER UNIT REPLACED BY 16107 POWER UNIT

³ REPLACE 30E & 16100 POWER UNITS AS FOLLOWS:
16105 REPLACES 11497
16106 REPLACES 11497NS & 16101
16107 REPLACES 16102

⁴ 16111 MOTOR REPLACES 01024 E & F & 16112 MOTORS
ON ALL 30E & 16100 SERIES POWER UNITS

⁵ 16988 BRAKE SPRING REPLACES 01043 BRAKE SPRING ON
16101, 16105 & 16106 WINCH POWER UNITS ONLY



MFG., INC.
CINCINNATI, OHIO

TITLE
REPL. PARTS LIST

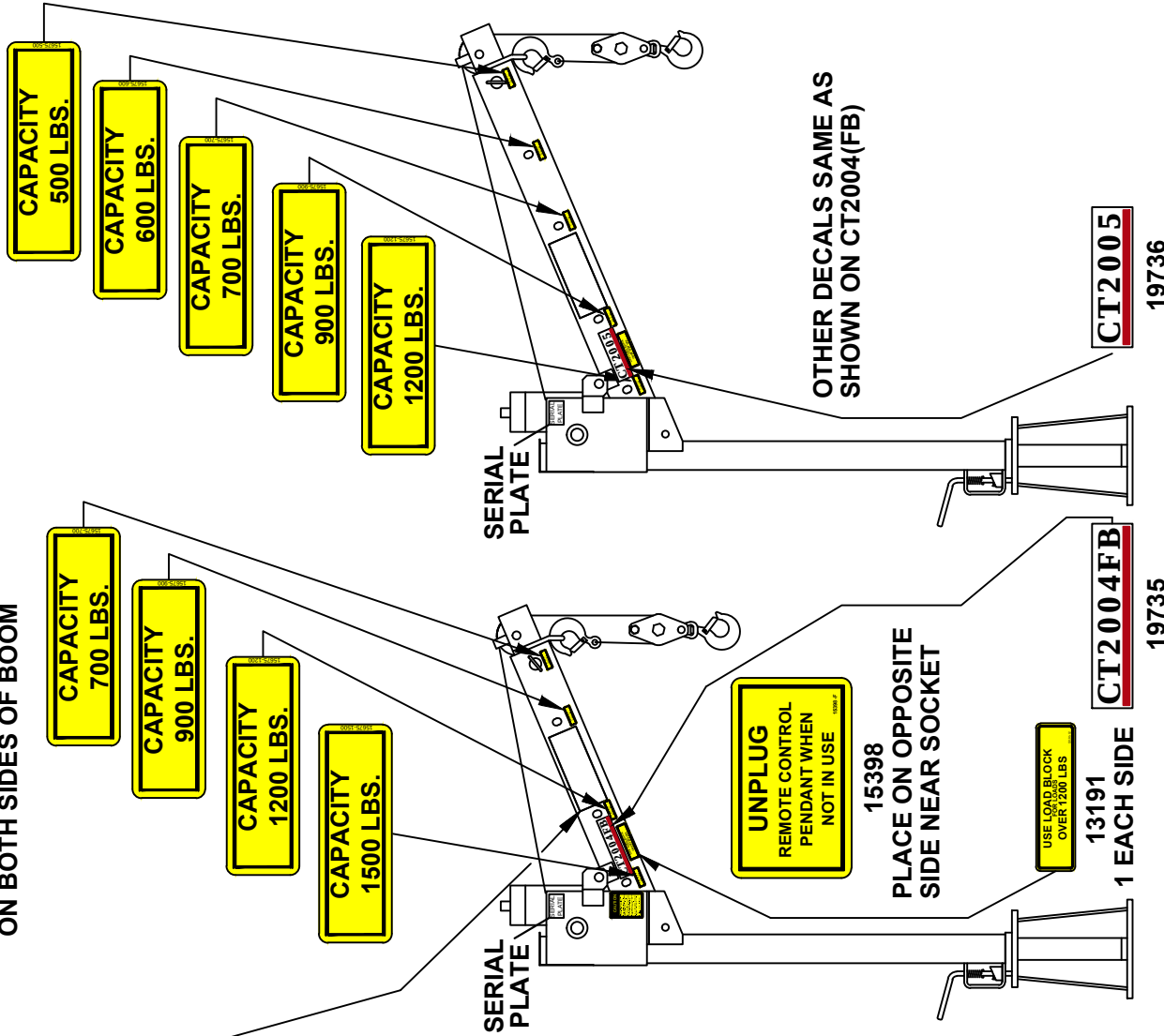
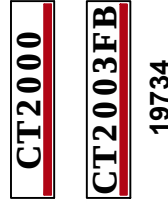
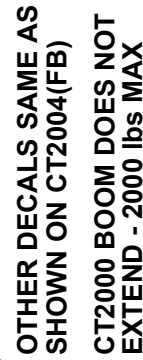
16100 ELECTRIC PU

DATE
6-13-07G

SUPERCEDES
12-6-04F

SECTION
C400

811016



TITLE	DATE	SECTION
DECAL PLACEMENT	03-01-19D	C150
CT2000/3/4/5 & CT2003/4FB CRANES	SUPERSEDES 07-27-12C	16176

CT2003FB

15545-3 FIELD SERVICE LABEL KIT

ITEM	PART NUMBER	QTY	DESCRIPTION
1	11917-4	1	DECAL; VOLTAGE IDENTIFICATION
2	-	-	-
3	14793		DECAL; CONTROL IDENTIFICATION:
	-2	*1	AC MODELS ONLY, SQUARE-FACED CONTROLLERS
	-3	*1	STANDARD MODELS, ROUND-FACED CONTROLLERS
4	17389-4	2	DECAL; VENTURO LOGO, SMALL
5	15672		DECAL; CAPACITY:
	-1000	2	1000 LBS.
	-1500	2	1500 LBS.
	-2000	2	2000 LBS.
6	19734	2	DECAL; MODEL, CT2003FB
7	15397	1	KIT; ACCIDENT PREVENTION SIGNS
8	16176	1	IDWG; DECAL APPLICATIONS
▲ 9	13191-12	2	DECAL; OPERATING INSTRUCTIONS (LOAD BLOCK)
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-

* 14793-2 IS USED FOR HEAVY DUTY APPLICATIONS (AC) ONLY - OMIT DECAL 14793-3.

* 14793-3 IS USED FOR STANDARD APPLICATIONS ONLY - OMIT DECAL 14793-2.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

FIELD SRVC LABEL KIT

DATE

07-03-14E

SECTION

-

CT2003FB

SUPERSEDES

04-23-13D

15545-3

CT2004FB

15545-4 FIELD SERVICE LABEL KIT

ITEM	PART NUMBER	QTY	DESCRIPTION
1	11917-4	1	DECAL; VOLTAGE IDENTIFICATION
2	-	-	-
3	14793		DECAL; CONTROL IDENTIFICATION:
	-2	*1	AC MODELS ONLY, SQUARE-FACED CONTROLLERS
	-3	*1	STANDARD MODELS, ROUND-FACED CONTROLLERS
4	17389-4	2	DECAL; VENTURO LOGO, SMALL
5	15672		DECAL; CAPACITY:
	-700	2	700 LBS.
	-900	2	900 LBS.
	-1200	2	1200 LBS.
	-1500	2	1500 LBS.
6	19735	2	DECAL; MODEL, CT2004FB
7	15397	1	KIT; ACCIDENT PREVENTION SIGNS
8	16176	1	IDWG; DECAL APPLICATIONS
▲ 9	13191-12	2	DECAL; OPERATING INSTRUCTIONS (LOAD BLOCK)
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-

* 14793-2 IS USED FOR HEAVY DUTY APPLICATIONS (AC) ONLY - OMIT DECAL 14793-3.

* 14793-3 IS USED FOR STANDARD APPLICATIONS ONLY - OMIT DECAL 14793-2.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

FIELD SRVC LABEL KIT

DATE

07-03-14E

SECTION

-

CT2004FB

SUPERSEDES

04-23-13D

15545-4

CT2005

15545-5 FIELD SERVICE LABEL KIT

ITEM	PART NUMBER	QTY	DESCRIPTION
1	11917-4	1	DECAL; VOLTAGE IDENTIFICATION
2	-	-	-
3	14793		DECAL; CONTROL IDENTIFICATION:
	-2	*1	AC MODELS ONLY, SQUARE-FACED CONTROLLERS
	-3	*1	STANDARD MODELS, ROUND-FACED CONTROLLERS
4	17389-4	2	DECAL; VENTURO LOGO, SMALL
5	15672		DECAL; CAPACITY:
	-500	2	500 LBS.
	-600	2	600 LBS.
	-700	2	700 LBS.
	-900	2	900 LBS.
	-1200	2	1200 LBS.
6	19736	2	DECAL; MODEL, CT2005
7	15397	1	KIT; ACCIDENT PREVENTION SIGNS
8	16176	1	IDWG; DECAL APPLICATIONS
▲ 9	13191-12	2	DECAL; OPERATING INSTRUCTIONS (LOAD BLOCK)
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-

* 14793-2 IS USED FOR HEAVY DUTY APPLICATIONS (AC) ONLY - OMIT DECAL 14793-3.

* 14793-3 IS USED FOR STANDARD APPLICATIONS ONLY - OMIT DECAL 14793-2.



VENCO VENTURO INDUSTRIES LLC
CINCINNATI, OHIO

TITLE

FIELD SRVC LABEL KIT

DATE

07-03-14E

SECTION

-

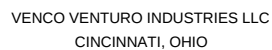
CT2005

SUPERSEDES

04-23-13D

15545-5

User Notes



INSTALLATION MANUALS

02-23-16

1.

■

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.

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