

PARTS & INSTALLATION MANUAL

25100-CD(DS)(-LC)

Included in this manual:

25100-CD(DS)(-LC)

- Stabilizer with Manual Pullout and Crank-Down Legs
- Available in “Less Crosstube” (-LC) configuration

25100-CD(DS)(-LC)

INST-25420 - 3/14/2024 (Rev: A0)

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SECTION 200

INSTALLATION



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STABILIZER INSTALLATION GUIDELINES

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

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

REAR MOUNTED

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

See the 'RECOMMENDED MOUNTING TO TRUCK FRAME' page

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

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

See the 'DEPARTURE ANGLE' page

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

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

FRONT MOUNTED

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



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INSTALLATION GUIDELINES

STABILIZERS

DATE

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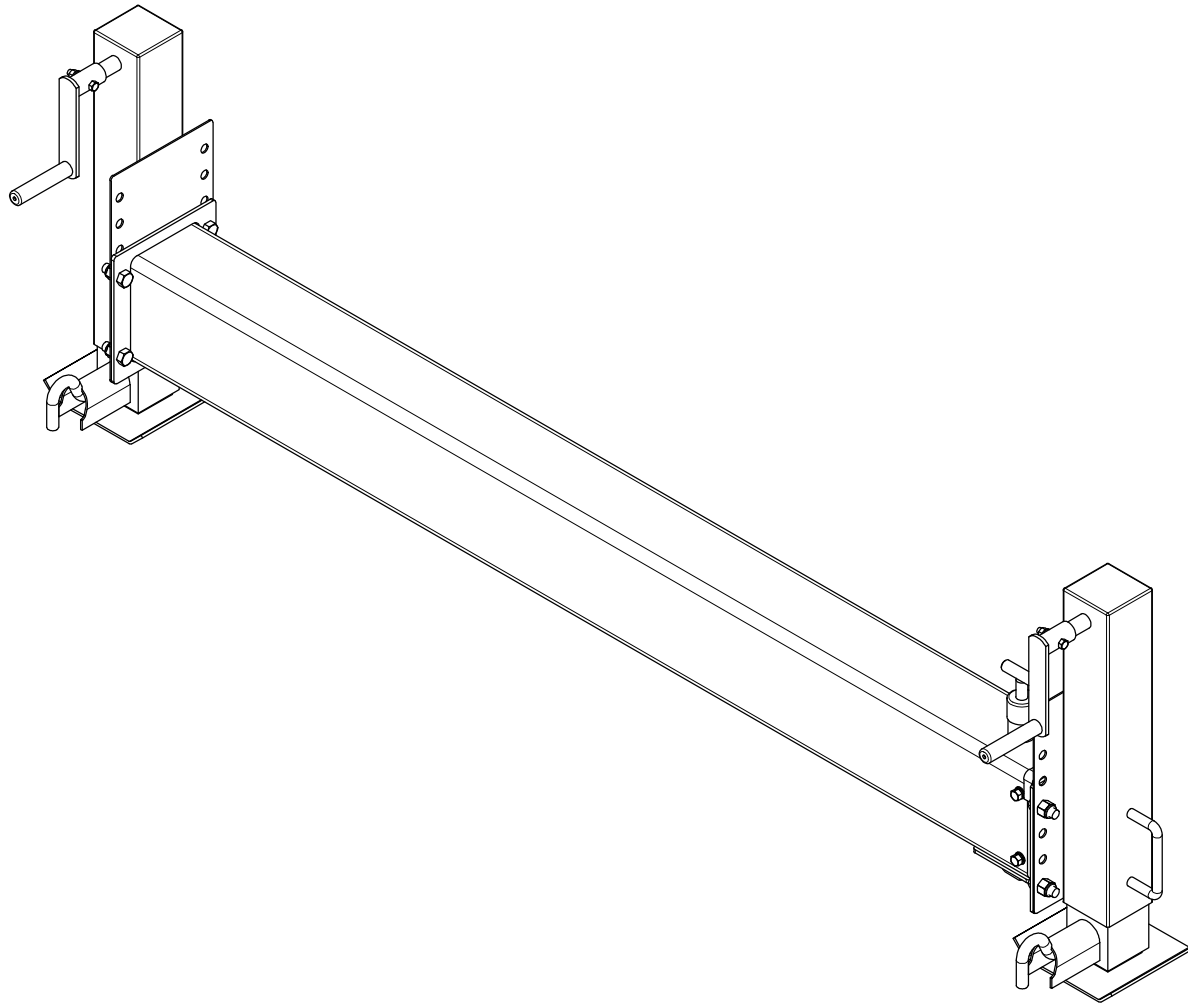
SUPERSEDES

01-17-17

SECTION

C200

25480



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ISOMETRIC VIEW

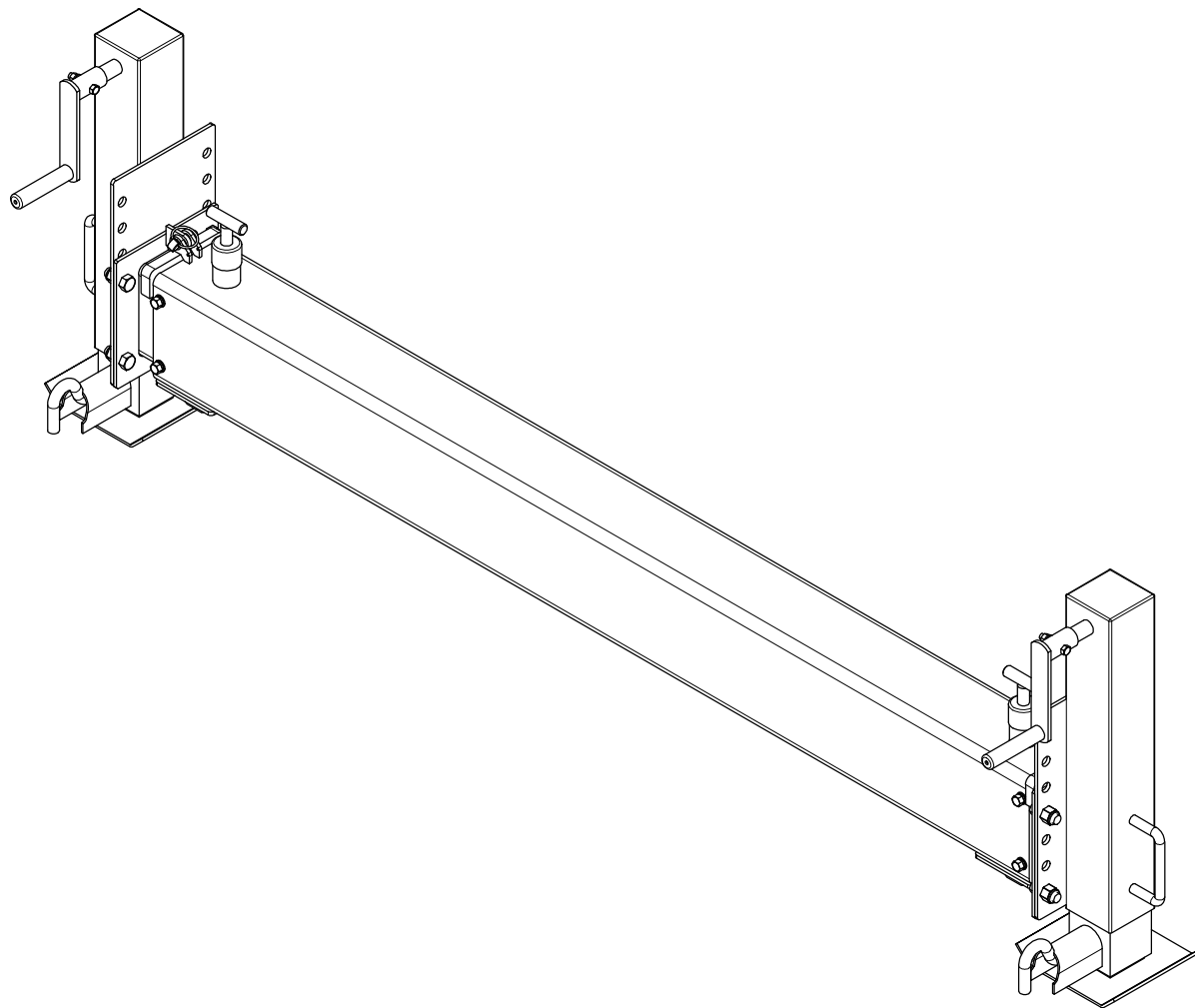
25100-CD OUTRIGGER

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01-19-17

SUPERSEDES
-

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25486



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ISOMETRIC VIEW

25100-CDDS OUTRIGGER

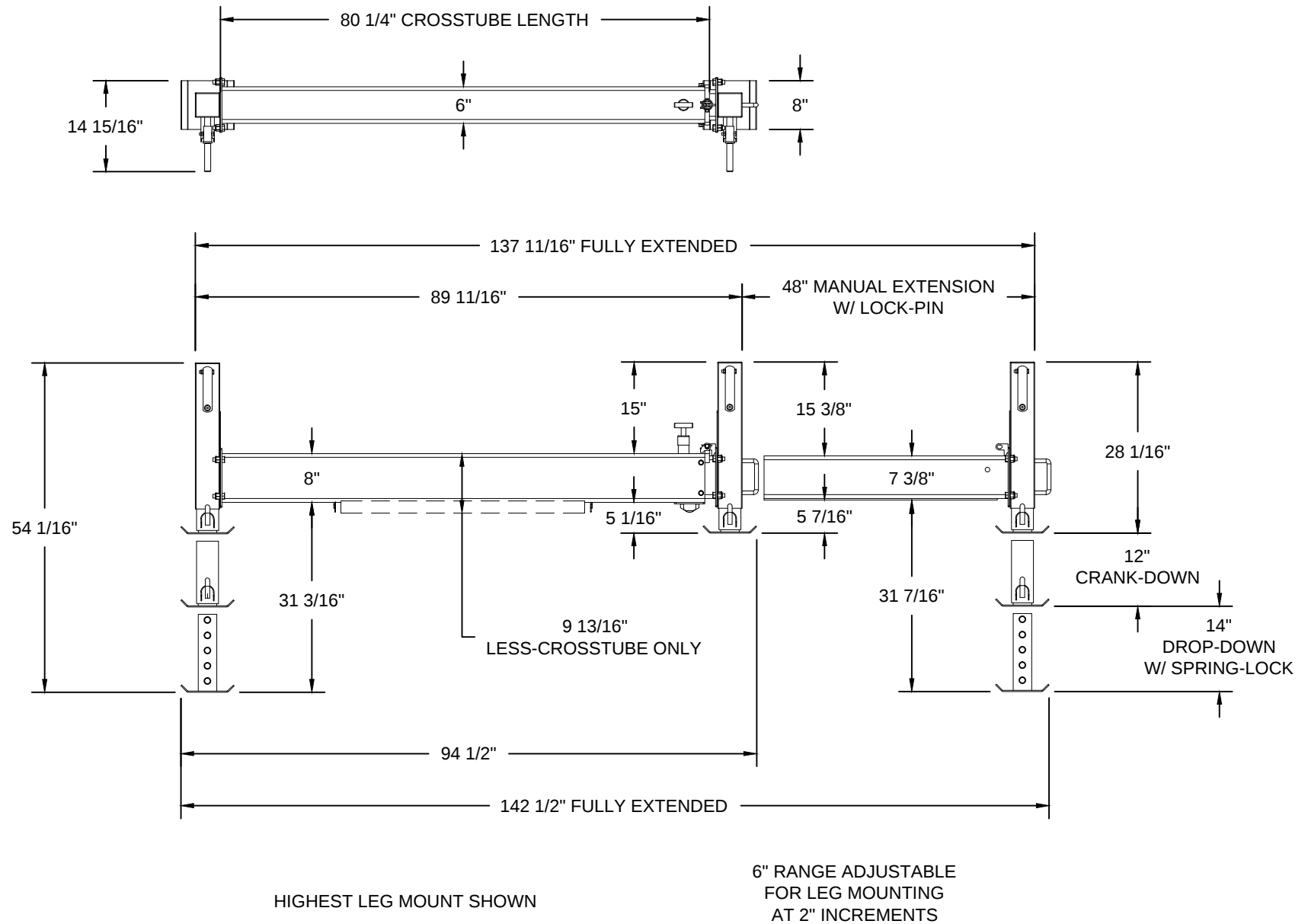
DATE
11-02-17

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03

25491



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OVERALL DIMENSIONS

25100-CD OUTRIGGER

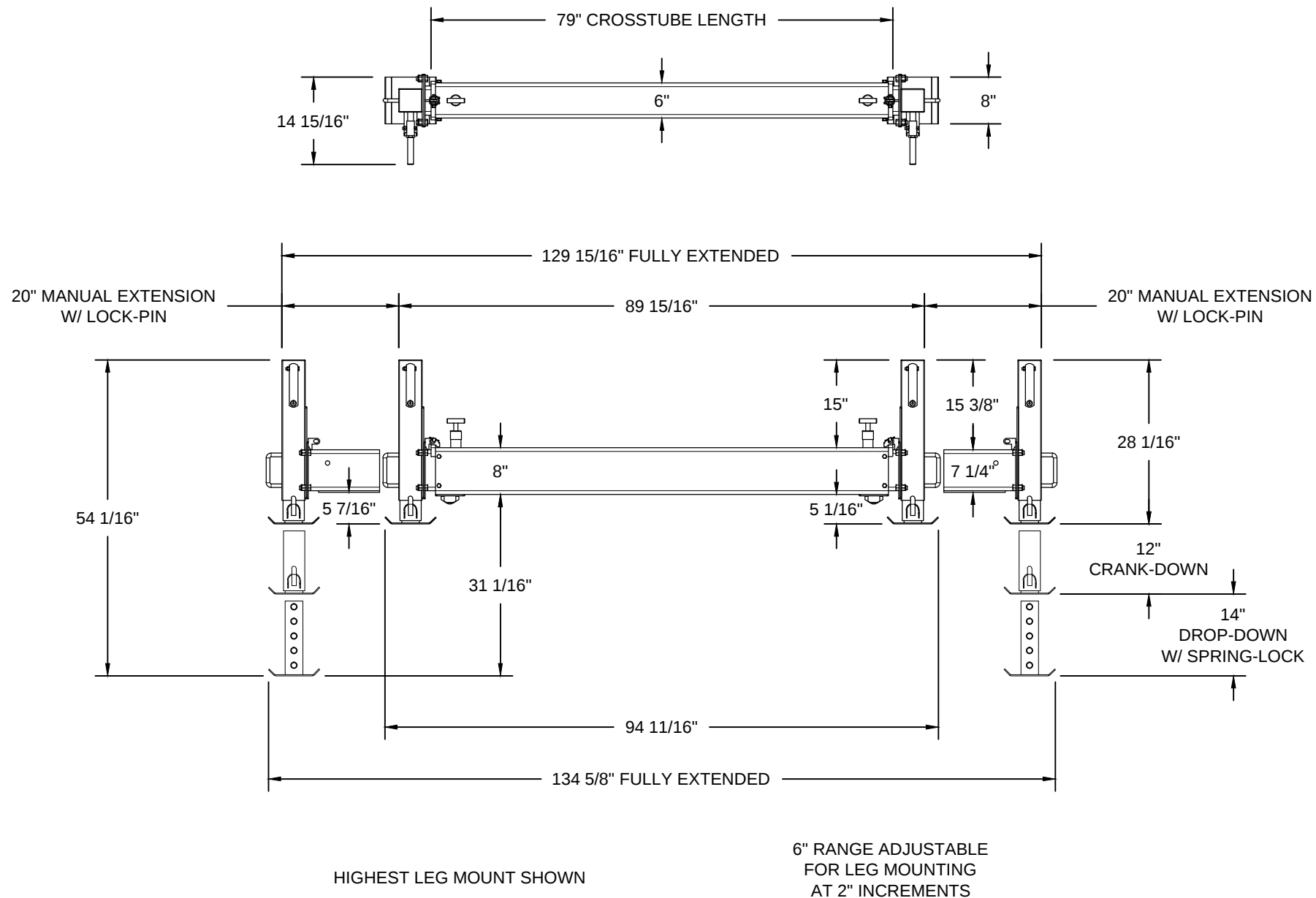
DATE
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02-01-17A

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OVERALL DIMENSIONS

25100-CDDS OUTRIGGER

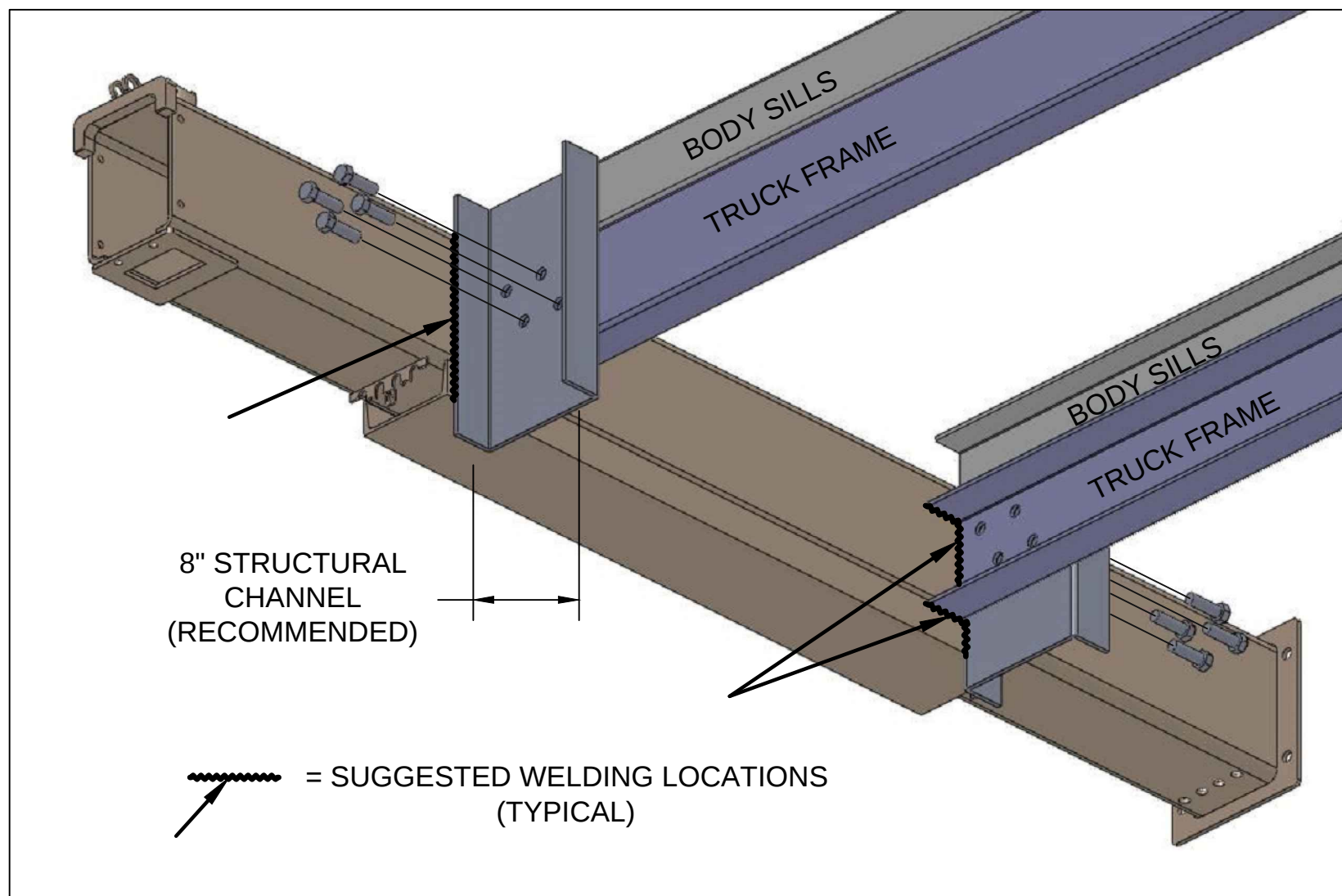
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25492



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RECOMMENDED MOUNTING TO TRUCK FRAME

25100 SERIES OUTRIGGERS

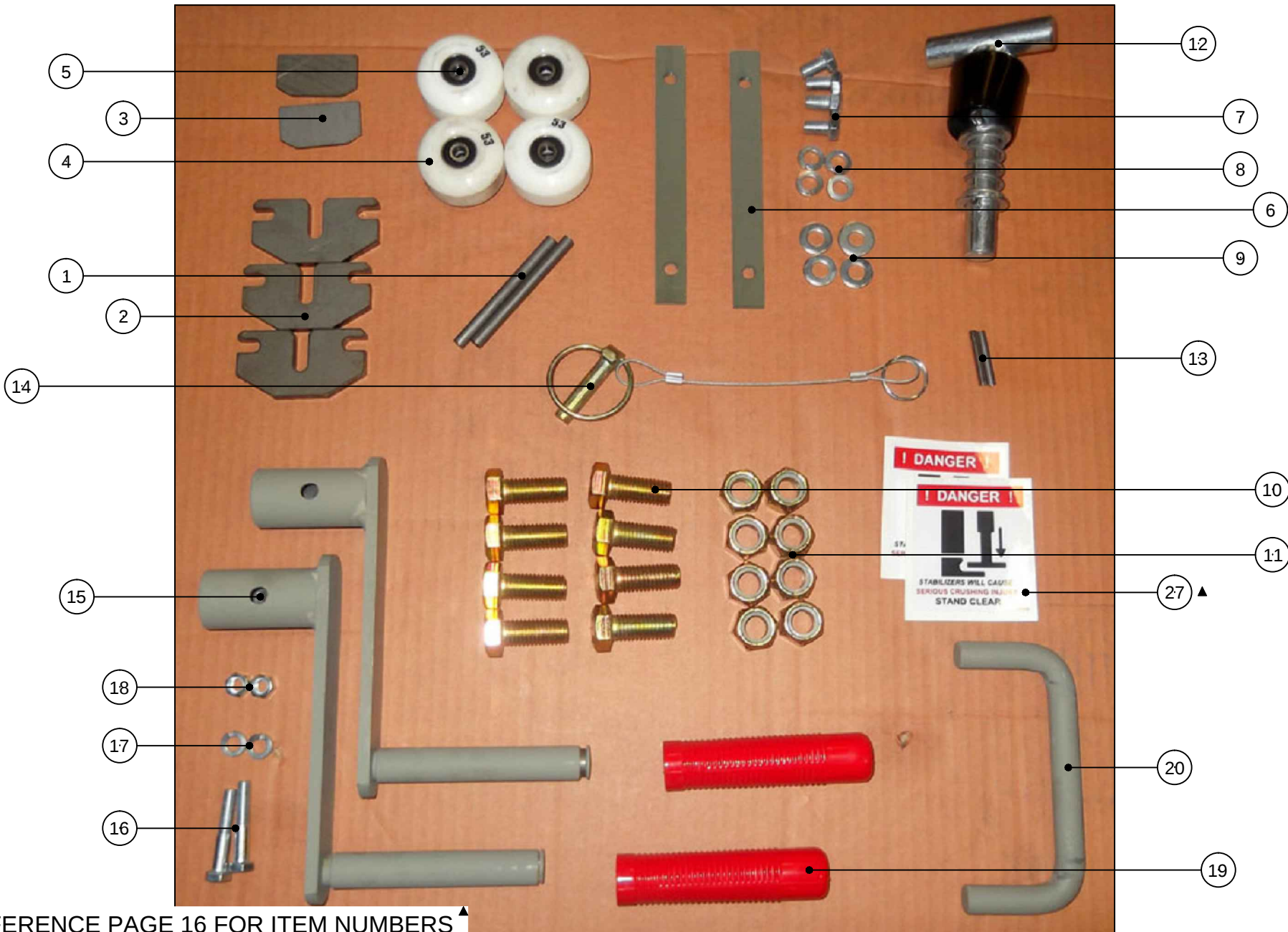
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25484-1



REFERENCE PAGE 16 FOR ITEM NUMBERS ▲



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SMALL PARTS IMAGE

25100-CD OUTRIGGERS

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RECOMMENDED DEPARTURE ANGLE



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RECOMMENDED DEPARTURE ANGLE

REAR MOUNTED OUTRIGGERS

DATE
08-25-22A

SUPERSEDES
01-18-17

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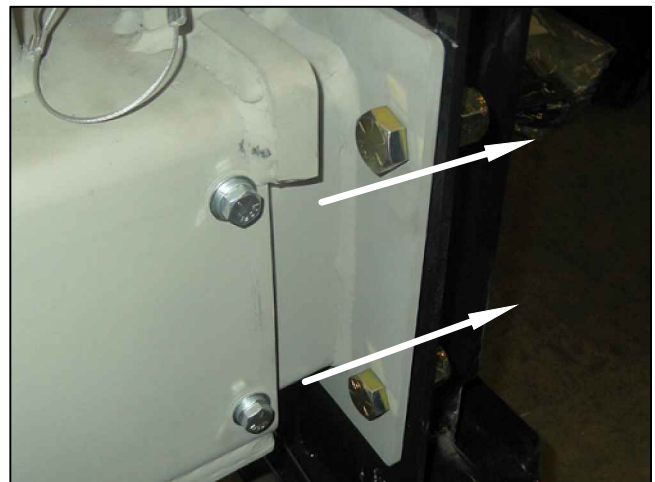
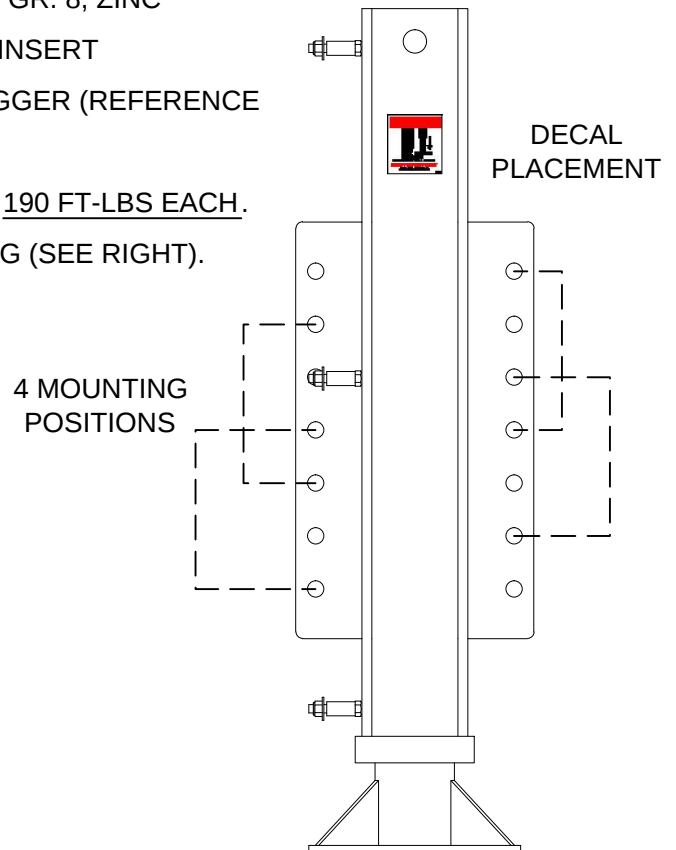
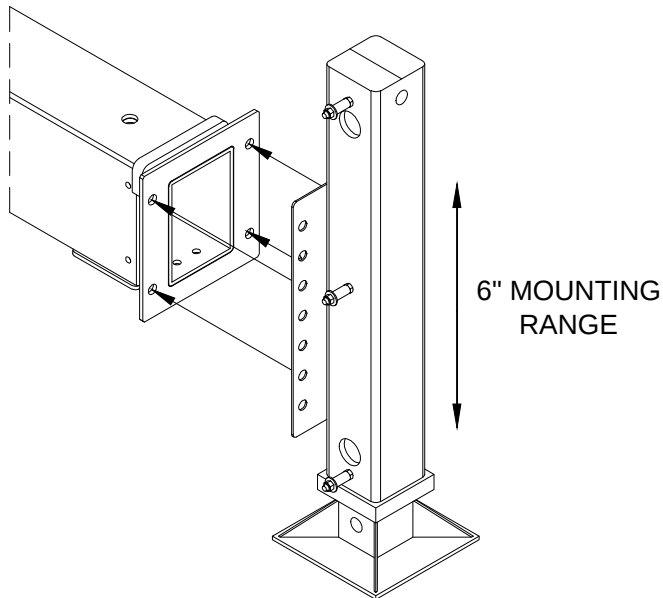
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25485

MOUNTING THE OUTRIGGER LEGS, 25100 SERIES OUTRIGGERS

FOLLOW INSTRUCTIONS FOR MOUNTING 25100 SERIES OUTRIGGER LEGS.

- ▲ 1. DETERMINE PLACEMENT OF OUTRIGGER LEGS. REFER TO MODEL SPECIFIC 'OVERALL DIMENSIONS' PAGE.
2. USE HARDWARE & FASTENERS PROVIDED (REFERENCE IMAGE BELOW):
 - [8] HEX HEAD CAP SCREW; 5/8-11 X 1-1/2", GR. 8, ZINC
 - [8] LOCK NUT; 5/8-11, GR. 8, ZINC, NYLON-INSERT
3. INSERT BOLTS POINTING AWAY FROM OUTRIGGER (REFERENCE IMAGE BELOW).
4. TORQUE OUTRIGGER LEG BOLTS & NUTS TO 190 FT-LBS EACH.
5. PLACE 24964 DANGER DECAL, [1] ON EACH LEG (SEE RIGHT).



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MOUNTING THE LEGS

25100 SERIES OUTRIGGERS

DATE
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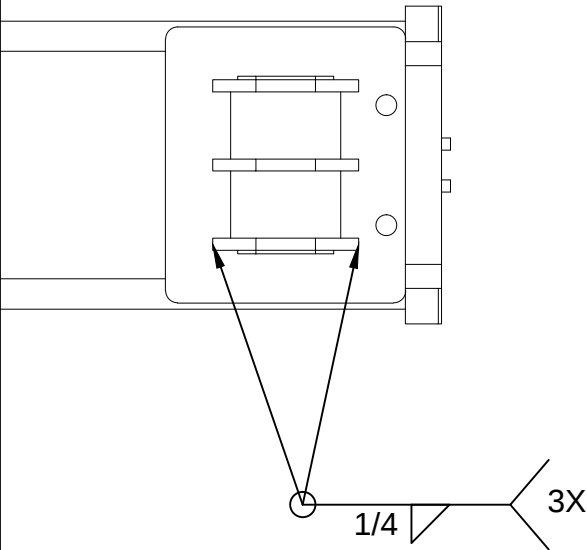
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25428-1

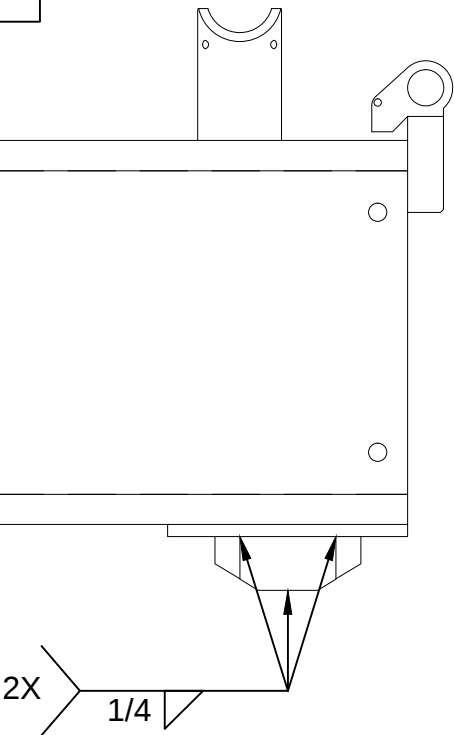
OVERVIEW OF WHEEL AXLE SUPPORTS & KEEPERS, 25100 SERIES OUTRIGGERS

REVIEW ILLUSTRATIONS & PROCEEDING STEPS BEFORE WELDING AXLE SUPPORTS & KEEPERS ON CROSSTUBE.

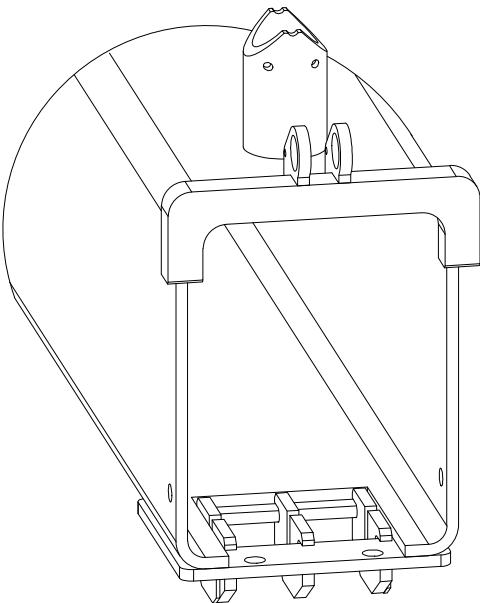
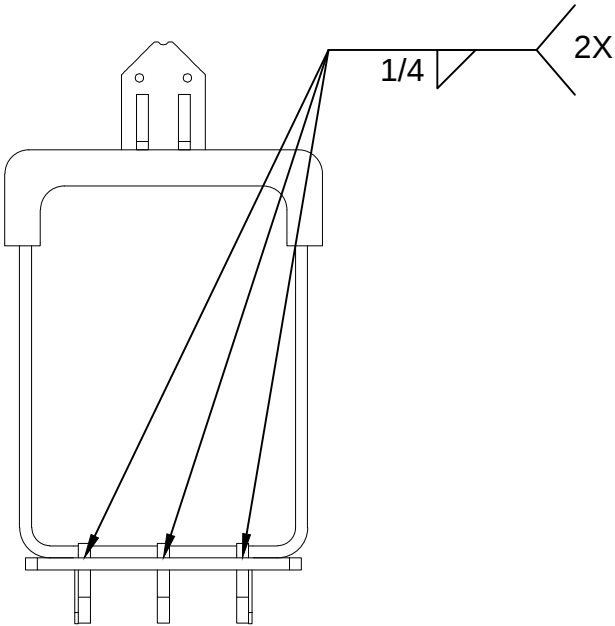
BOTTOM



SIDE



FRONT



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WHEEL AXLE OVERVIEW

25100 SERIES OUTRIGGERS

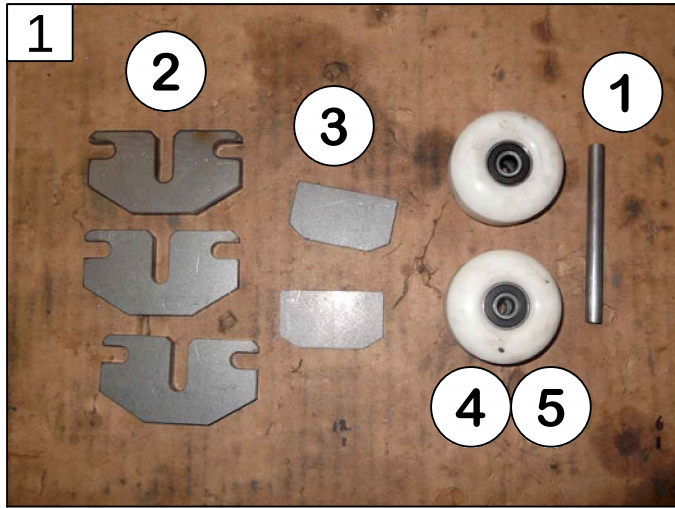
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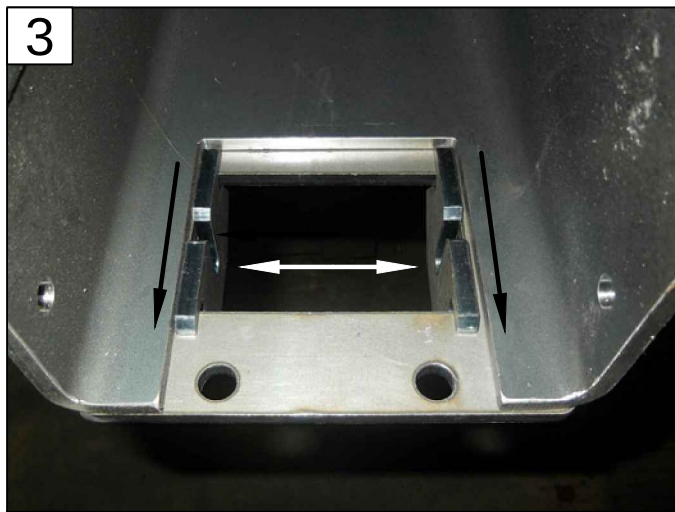
WELDING THE WHEEL AXLE SUPPORTS & KEEPERS ASSEMBLY



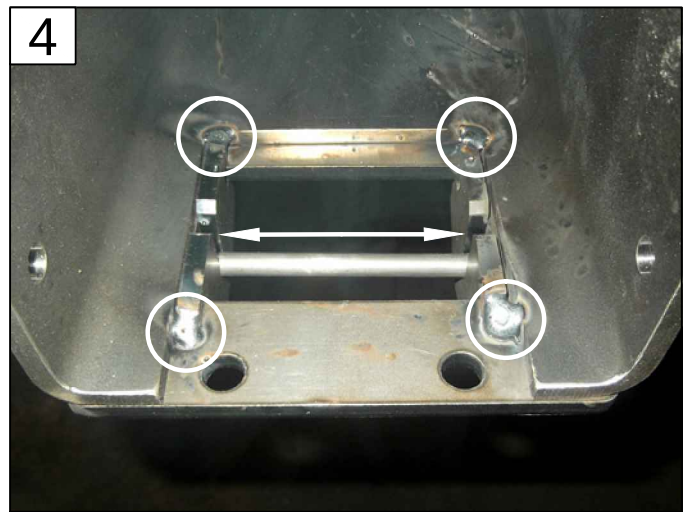
PARTS NEEDED FOR WELDING AXLE SUPPORTS & KEEPERS
▲ REFERENCE PAGE 16 FOR ITEM NUMBERS



REFERENCE FOR PLACING AXLE SUPPORTS



PLACE [2] AXLE SUPPORTS FLUSH TO SIDES
PULL SUPPORTS BACK EVENLY



MAKE [4] TACKS ON ENDS OF SUPPORTS
ENSURE AXLE ROD FITS



PLACE LAST AXLE SUPPORT CENTERED



PLACE EACH AXLE KEEPER ON OUTSIDE OF SUPPORTS
FLUSH WITH EDGES EVEN



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WHEEL AXLE WELDING

25100 SERIES OUTRIGGERS

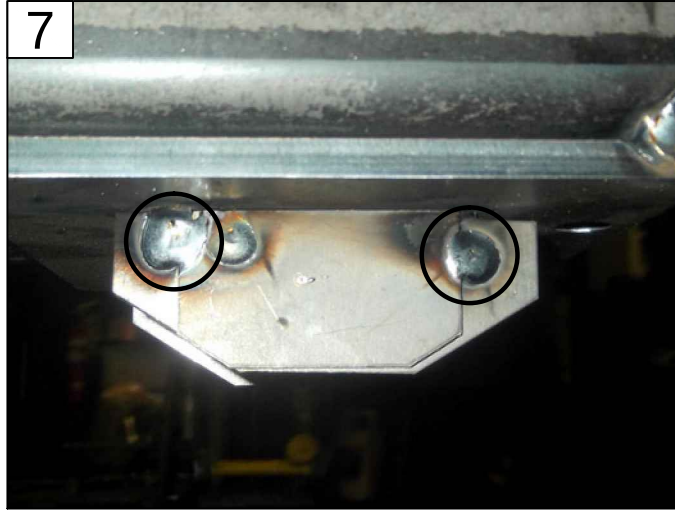
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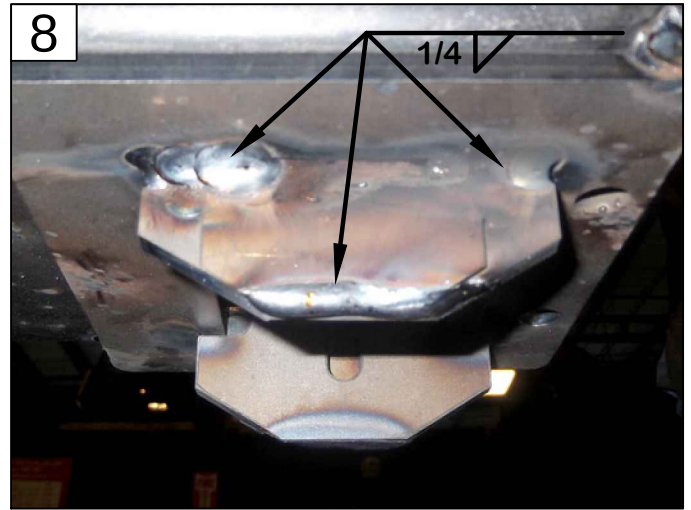
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WELDING THE WHEEL AXLE SUPPORTS & KEEPERS ASSEMBLY



MAKE [2] TACKS ON EACH AXLE KEEPER



WELD EACH KEEPER TO CROSSTUBE & AXLE SUPPORTS



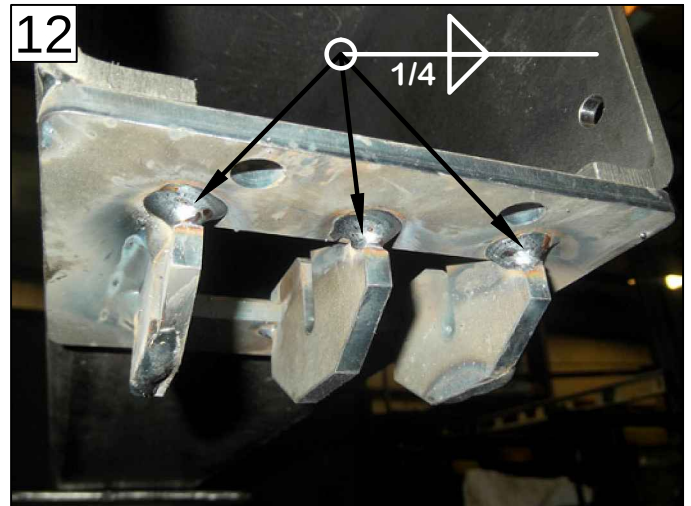
SETUP WHEELS & AXLE



KEEP LAST AXLE SUPPORT CENTER
USE WHEELS & AXLE TO ENSURE FIT



MAKE [2] TACKS TO CENTER SUPPORT



FINISH WELDING SUPPORTS UNDERNEATH
ALL AROUND



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WHEEL AXLE WELDING

25100 SERIES OUTRIGGERS

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ASSEMBLY OF 25100-CD OUTRIGGER WITH LESS-CROSSTUBE CONFIGURATION

13



SETUP WHEELS & AXLES, [2] SETS
PAGE 16 - ITEMS 1, 4, & 5

14



INSERT [1] SET INTO PULLOUT

15



INSERT [1] SET INTO CROSSTUBE

16



SLIDE PULLOUT INTO CROSSTUBE

17



FASTEN NUT BAR RETAINERS ON BOTH SIDES
PAGE 16 - ITEMS 6, 7, 8, & 9

18



LINE-UP HOLES ON PULLOUT & CROSSTUBE



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LESS-CROSSTUBE ASSY

25100-CD OUTRIGGERS

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ASSEMBLY OF 25100-CD OUTRIGGER WITH LESS-CROSSTUBE CONFIGURATION

19



INSERT ROLL PINS
PAGE 16 - ITEM 13

20



GREASE T-HANDLE'S SPRING
PAGE 16 - ITEM 12

21



PLACE T-HANDLE AS SHOWN

22



PUSH SPRING-LOADED WASHER DOWN

23



DRIVE ROLL PINS THROUGH
FLUSH ON BOTH ENDS

24



COVER WITH RUBBER BOOT



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LESS-CROSSTUBE ASSY

25100-CD OUTRIGGERS

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ASSEMBLY OF 25100-CD OUTRIGGER WITH LESS-CROSSTUBE CONFIGURATION

25



ATTACH SECURITY PIN KEY-RING ON EITHER TAB
PAGE 16 - ITEM 14

26



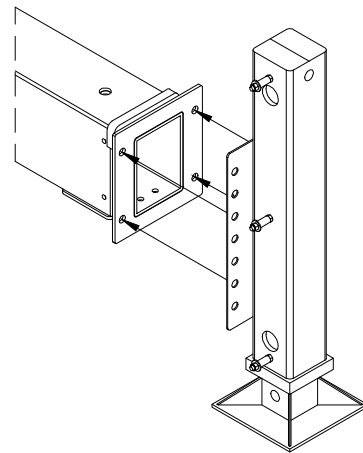
INSERT PIN THROUGH ALL TABS

27



ENSURE CLAMP MEETS PIN

28



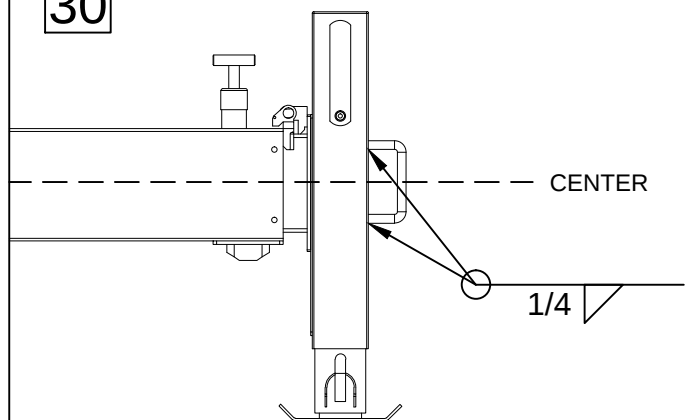
SEE 'MOUNTING THE OUTRIGGER LEGS' PAGE

29



FASTEN CRANK HANDLES TO LEGS
PAGE 16 - ITEMS 15, 16, 17, 18, & 19

30



WELD C-HANDLE ON PULLOUT LEG, CENTER TO PULLOUT
PAGE 16 - ITEM 20



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LESS-CROSSTUBE ASSY

25100-CD OUTRIGGERS

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SECTION 400

REPLACEMENT PARTS



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PARTS BREAKDOWN, 25100-CD OUTRIGGERS (LESS-CROSSTUBE PARTS INCLUDED)

25100-CD OUTRIGGERS PARTS BREAKDOWN		CD(-LC)	CDDS	< DASH CFG
#	DESCRIPTION	QTY		PART #
1	AXLE	2	4	25090
2	AXLE SUPPORT	3	6	25097
3	AXLE KEEPER	2	4	25091
4	WHEEL	4	8	25082
5	WHEEL BEARING	8	16	25078
6	NUT BAR RETAINER	2	4	25065
7	HEX HEAD CAP SCREW; 3/8-16 X 5/8, GR. 5	4	8	!HHCS03816063
8	LOCK WASHER; 3/8, GR. 5	4	8	!LWSH-038
9	FLAT WASHER; 3/8, GR. 5	4	8	!FWSH-038SAE
10	HEX HEAD CAP SCREW; 5/8-11 X 1-1/2, GR. 8	8	8	!HHCS06311150-8
11	LOCK NUT; 5/8-11, GR. 8, NYLON INSERT	8	8	!LNUT-06311-8
12	T-HANDLE LOCKING PIN	1	2	22668
13	ROLL PIN; 3/16 X 1-3/8, STAINLESS STEEL	2	4	!RPIN-019138-SS
14	SECURITY PIN ASSEMBLY	1	2	24981
15	WELDED CRANK HANDLE	2	2	19009
16	HEX HEAD CAP SCREW; 5/16-18 X 1-3/4, GR. 5	2	2	!HHCS03118175
17	LOCK WASHER; 5/16, GR. 5	2	2	!LWSH-031
18	HEX NUT; 5/16-18, GR. 5	2	2	!HNUT-03118
19	HANDLE GRIP, RED, RUBBER	2	2	16-00064
20	C-HANDLE, PULLOUT LEG	1	2	19344
21	LEG; CRANK-DOWN, 25100 SERIES, RIGHT	1	1	25133-1
22	LEG; CRANK-DOWN, 25100 SERIES, LEFT	1	1	25133-2
23	CROSSTUBE; 25100-CD OUTRIGGERS	1	-	25085-3
24	PULLOUT; 4' EXT., 25100-CD/PH O.R.'S	1	-	25087-1
25	CROSSTUBE; 25100-CDDS OUTRIGGER	-	1	25085-9
26	PULLOUT; 20" EXT., 25100-CCDS O.R.	-	2	25087-3
27	DECAL; DANGER, CRUSHING INJURY	2	2	24964



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PARTS BREAKDOWN

25100-CD OUTRIGGERS

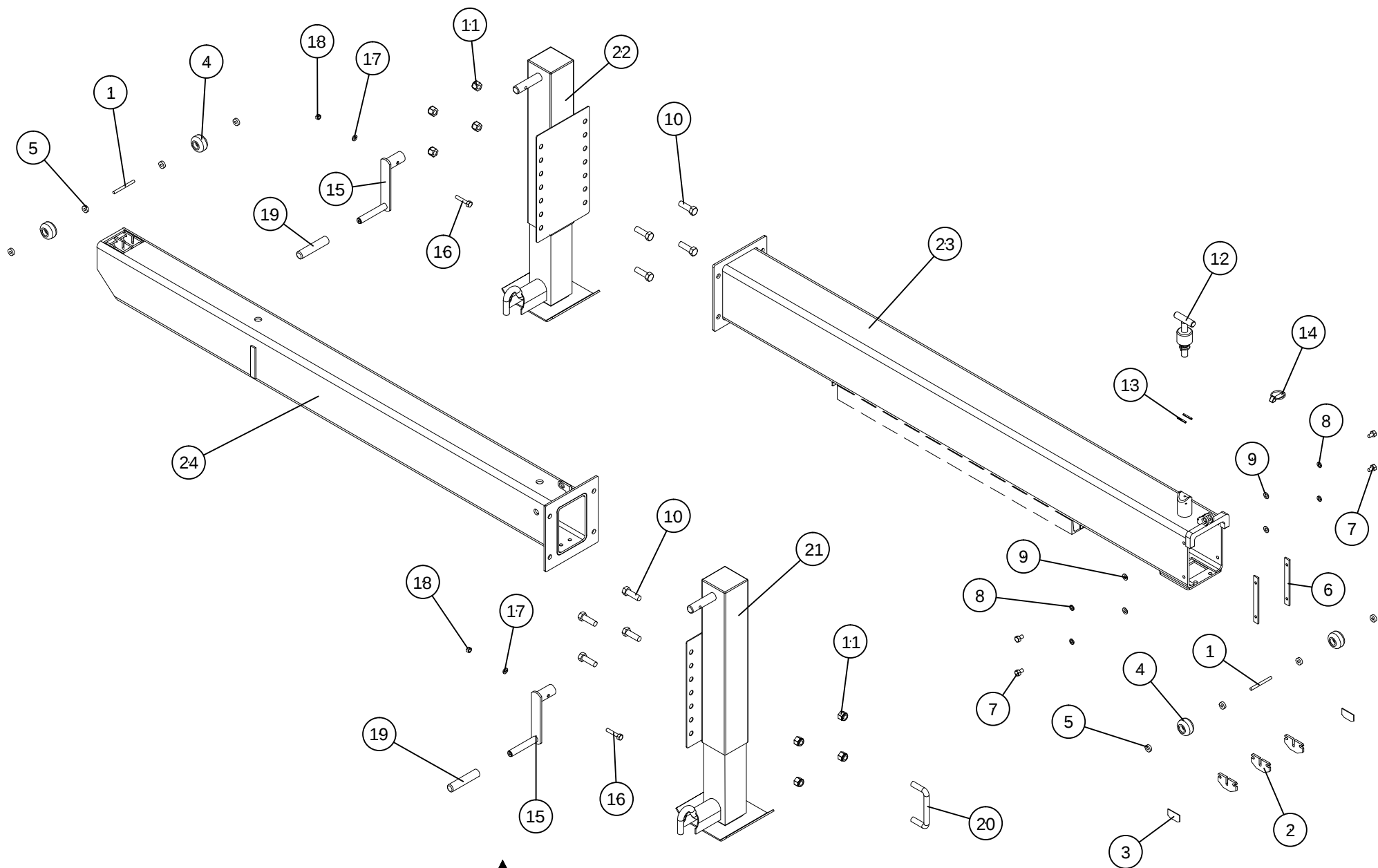
DATE
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25421



REFERENCE PAGE 16 FOR ITEM NUMBERS ▲



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PARTS BREAKDOWN (LESS-CROSSTUBE PARTS INCLUDED)

25100-CD(-LC) OUTRIGGERS ▲

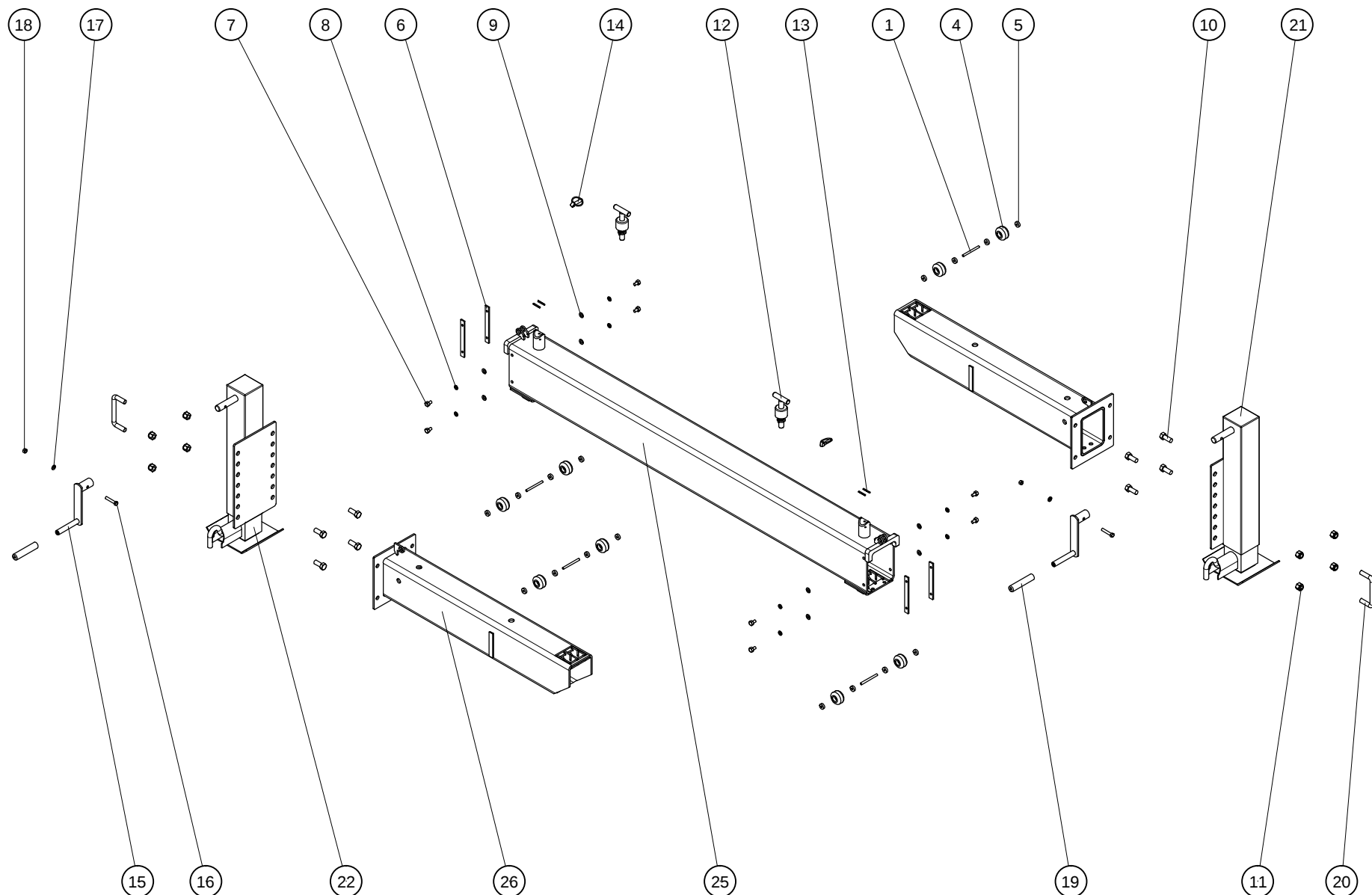
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REFERENCE PAGE 16 FOR ITEM NUMBERS



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PARTS BREAKDOWN

25100-CDDS OUTRIGGER

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25493



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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