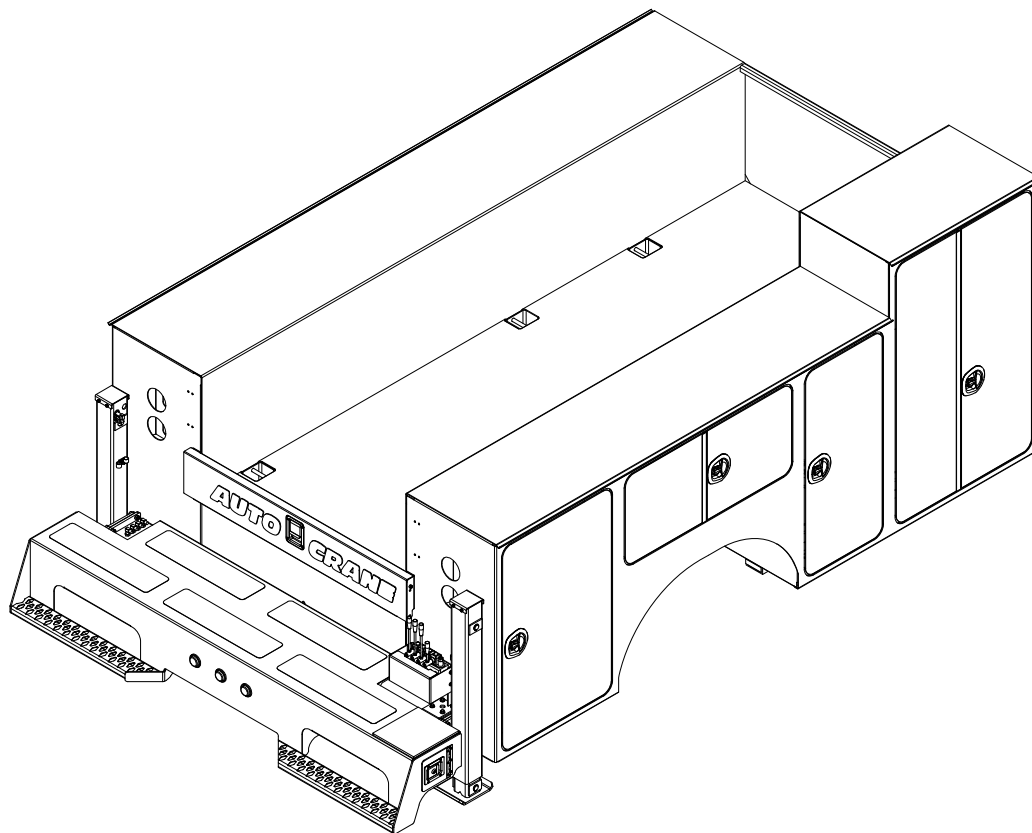




TITAN 38 OWNERS MANUAL

Manual No. 738901000



Serial No. _____

Mailing Address:
P.O. Box 580697
Tulsa, OK 74158-0697
Physical Address:
4707 N. Mingo Rd.
Tulsa, OK 74117-5904

Phone (918) 836-0463
Fax (918) 834-5979
<http://www.autocrane.com>



Auto Crane Warranty Registration

Fax Transmission

To: Warranty Department Fax: (918) 834-5979
From: _____ Date: _____
Re: Product Registration Pages: _____

End User Information: (Required for Warranty Activation)

Name: _____ Phone: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ E-mail Address: _____

Distributor Information: (Required for Warranty Activation)

Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ E-mail Address: _____

Product Information: (Required for Warranty Activation)

Model No.: _____ Serial No.: _____
Date Product Delivered: _____ Date Processed:* _____
VIN # _____ * For Auto Crane use only

ONE REGISTRATION FORM PER UNIT (CRANE OR BODY)

Registration form must be mailed or faxed within 15 days of customer installation.

Mail to:
Warranty Department
Auto Crane Company
P.O. Box 581510
Tulsa, OK 74158-0697

TITAN 38 BODY

OWNER'S MANUAL – REVISION RECORD

Revision Date	Section(s) Or Page(s)	Description of Change
12-23-03	New Manual	New Body Design
03-22-04	Sections 1, 2, 4, 6 & 10	Updated pictorials for Installation, General Dimensions, Outriggers (Manual Out/Hyd. Down) for Curbside and Street-side and Boom Support Options & Shelf Location. Added Fully Hydraulic Outriggers for Curbside and Street-side and Manual Outriggers for Street-side.
10-14-05	All	General format change, update all outriggers, added 60CA configuration.
06/05/07	Sections 1, 5 & 8	Updated General Dimensions, Hydraulic Outriggers & Master Locking System
10/02/09	17-1.0	Updated Preventive Maint. and Paint Instructions
4/20/10	Section 5	Revised Outrigger BOMs. 760390110 was 760388000
5/26/10	Section 5 & Back	Added Valve setting. Added Note on Ship Kit and Warranty
2/27/26	Warranty	Updated warranty policy

Notes:

1. The information contained in this manual is in effect at the time of this printing. It does not cover all instructions, configurations, accessories, etc. If you require additional information, please contact **Auto Crane Company** at **(918) 836-0463**.
2. **Auto Crane Company** reserves the right to update this material without notice or obligation.

WARNINGS

- **WARNING!** Federal Law (49CFR part 571) requires that the Final Stage Manufacturer of a vehicle, certify that the vehicle complies with all applicable federal regulations. Any modifications performed on the vehicle prior to the final stage are also considered intermediate stage manufacturing and must be certified as to compliance. The installer of this crane and body is considered one of the manufacturers of the vehicle. As such a manufacturer, the installer is responsible for compliance with all applicable federal and state regulations, and is required to certify that the vehicle is in compliance.
- **WARNING!** It is the further responsibility of the installer to comply with the OSHA Truck Crane Stability Requirements as specified by 29 CFR part 1910.180 (c) (1).
- **WARNING! NEVER OPERATE THE CRANE NEAR ELECTRICAL POWER LINES!** Death or serious injury will result from boom, line, or load contacting electric lines. Do not use crane within 10 feet of electric power lines carrying up to 50,000 volts. One foot additional clearance is required for every additional 30,000 volts or less.
- **WARNING!** Failure to correctly plumb and wire crane can cause inadvertent operation and damage to crane and/or personnel!

READ THIS PAGE

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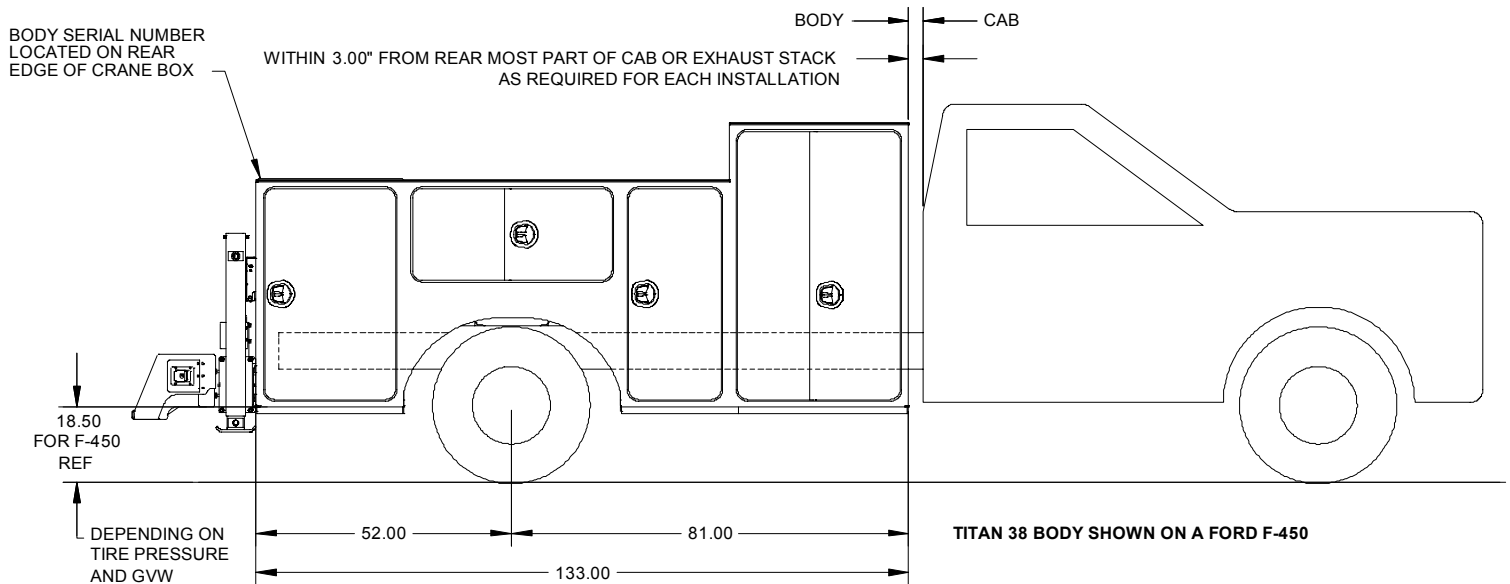
TITAN 38 BODY

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NOTES

MOUNTING AND INSTALLATION

TITAN 38



DIMENSIONS ARE APPROXIMATE, NOT TO SCALE AND FOR REFERENCE ONLY.

NOTES:

1. Rear Mounting
 - Drill rear existing outrigger support 4 places (21/32 drill) using staggered pattern.
 - Match drill truck frame. Refer to the truck body-builders manual on drilling.
 - Use (8) 5/8", grade-8 hardware (bolts, nuts, washers, etc.) for mounting. (4) per shear plate. Torque them to their recommended specs.
 - Typical both sides of body.
 - Do not weld to truck frame. Refer to truck body-builders manual for further info.
2. Forward Mounting
 - Using minimum 3/8" thick steel plate with minimum yield of 50,000 PSI x 4" to 6" wide, length as required, drill (3) 21/32"-dia. holes in a staggered pattern.
 - Match drill truck frame. Refer to the truck body-builders manual on drilling.
 - Use (6) 5/8", grade-8 hardware (bolts, nuts, washers, etc.) for mounting. Torque them to their recommended specs.
 - Weld upper portion of 3/8" plate to body longitudinal sill, (weld 3/8" fillet).
 - Typical both sides of body.
 - Do not weld to truck frame. Refer to truck body-builders manual for further info.
3. Minimum truck chassis of 11,400 lbs GVWR, 34"-frame rail width and heavy-duty reinforced frame.

***TITAN 38
MOUNTING AND INSTALLATION***

***TITAN BODY GASKET INSTALLATION
INSTRUCTION***

Door Gasket, Backer Rod and Silicon Installation

Removal and installation time:

5 Minutes per single door, 10 Minutes per double door, 30 minutes cure time.

List of Materials needed to perform installation door seal, vinyl tubing, and silicone:

- New door gasket seal
- Clear vinyl tubing 3.5 inches long by ½ inch outside diameter
- Clear vinyl tubing 1 inch long by ½ inch outside diameter
- Double door seal gasket (D-shaped gasket) full length of door
- 100% Clear Silicone fast cure Water Proof non-paintable caulking 1 tube per body
- Shears to cut weather-stripping
- Adhesion Remover (Paint Thinner, Mineral Spirits)
- Rubber Mallet
- Pry bar
- Small Flat Head Screw Driver
- Flat Blade Putty Knife
- Box Cutter with extra blades
- Caulking gun

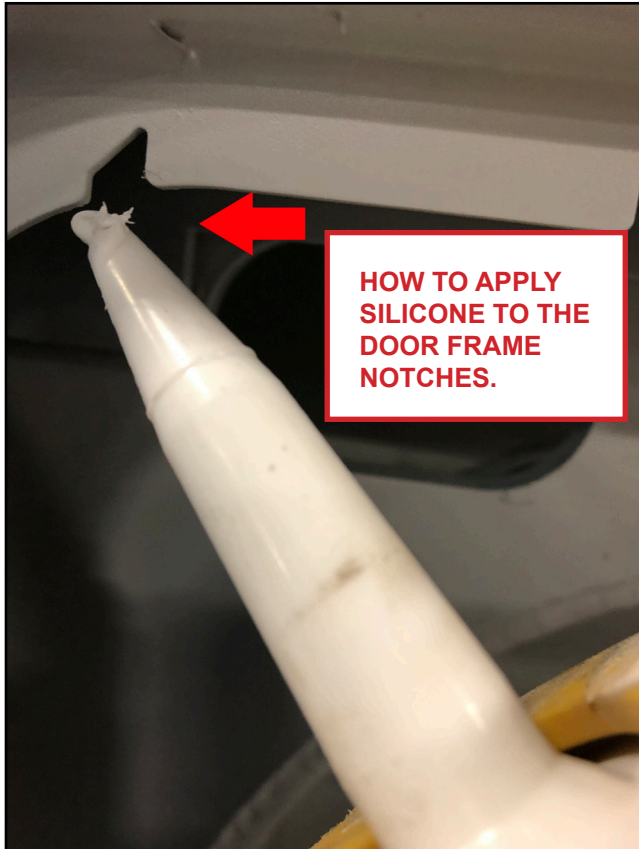
After removing the old door gasket and performing the caulking inspection and repair, new door gaskets and vinyl tubing will be installed. This is a time sensitive installation so install the silicone to the door gasket edge trim after cutting the correct length and prepare to do the install.

NOTICE

Allow for 30 minute cure time before shutting of doors.

Installation of Single Door Gasket

1. Before installing gasket, apply silicone to both sets of notches in the door frame, top and bottom. Also apply silicone to the edge trim where the notches will be located.



2. Insert the Door Gasket behind the hinges so that the door gasket bulb is facing outwards towards the door but do not apply to the door frame edge until the door gasket ends are at the center of the bottom door frame.
3. Start by applying one end of the door gasket onto the bottom center of the door frame and work your way into the 1st corner, then up the side of the frame until the 2nd corner making sure to keep the corners pushed tight. Then work the door gasket into the 3rd corner and behind the door hinges by moving the door back and forth so you have room behind the hinges to work the door gasket onto the edge. Use a pry bar to push on the door gasket onto the edge and a rubber mallet to evenly install the door gasket. When you reach the 4th corner install tight and continue until needed to trim excess door gasket, leaving about 1 inch excess after cutting for pressure retention between the seams. Trim the door gasket ends as straight as possible. Use a rubber mallet to ensure fit in corners and remove door dampener if necessary to facilitate installation.

Installation of Single Door Gasket



Installation of Single Door Gasket

4. Install the 1 inch clear vinyl tubing, leaving about 1/2 inch sticking out to install into the other seam. Apply the silicone on the bulbs around the diameter of the vinyl tubing and onto and into the edge trim portion of the door gasket on both sides of the seam. Insert the door gasket with silicone applied to the vinyl tubing and surface into the other seam and push down the door gasket until flush onto the edge. (The extra silicone will push out of the seam so wipe away excess but leave the silicon in the center to make a flush molded seal).



**CLEAR VINYL TUBING
INSTALLED INTO THE SEEM
AT 50/50 % RATIO.**



**INSTALL VINYL TUBING
INTO THE SECOND SEAM
AND PUSH TOGETHER.**

Installation of Single Door Gasket



WHEN THE TWO SEAMS ARE
PUSHED TOGETHER, INSTALL
BOTH SEAM ONTO THE DOOR
FRAME EDGE TRIM.



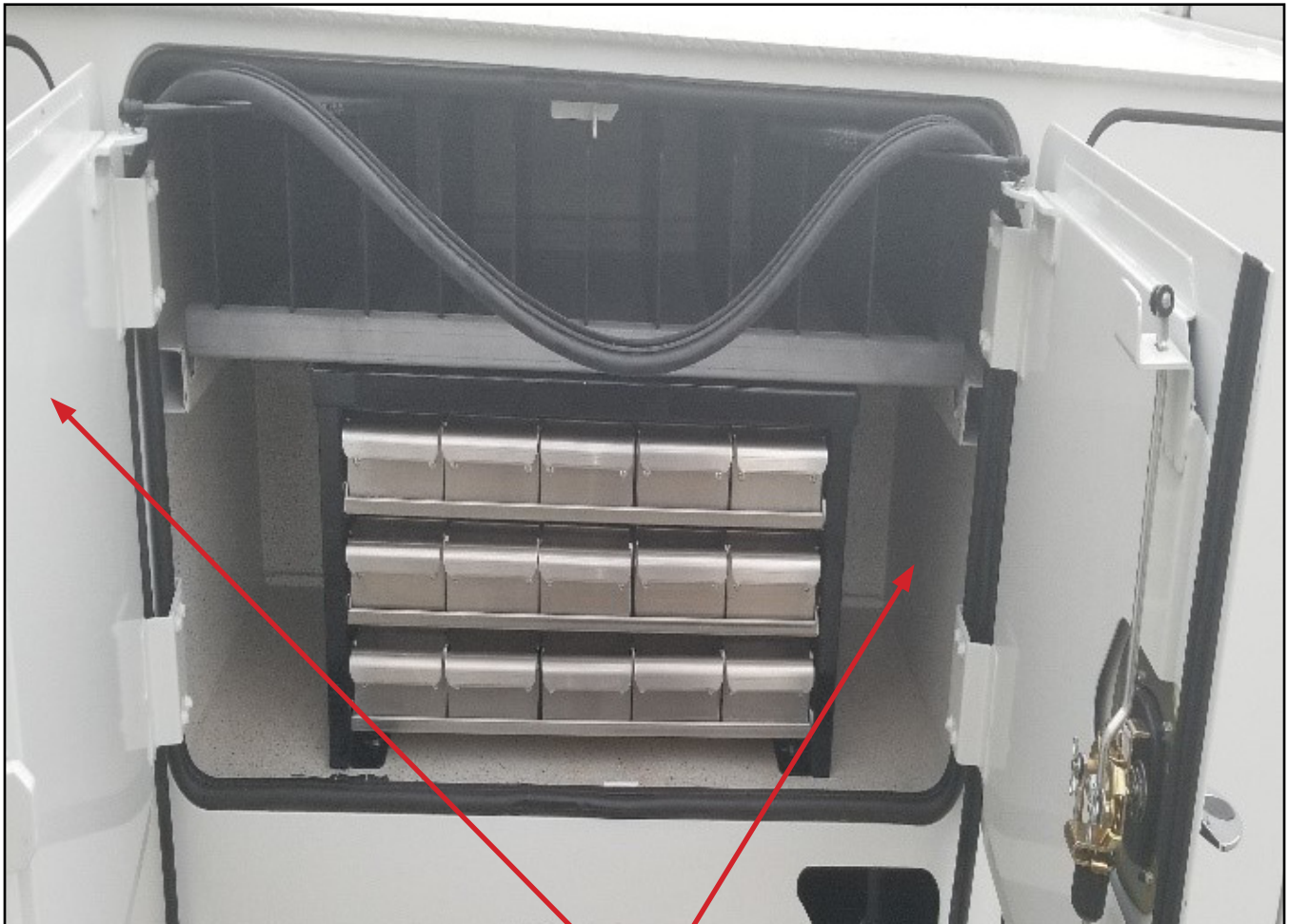
WIPE EXCESS SILICONE OFF
THE OUTER PORTION OF
DOOR GASKET BULB AND
EDGE TRIM.

Installation of Double Door Gasket and Vinyl Tubing

5. Insert the door gasket behind the hinges so that the door gasket bulb is facing outwards to the door, but do not apply to the door frame edge until the door gasket ends are positioned correctly at the bottom door frame.

NOTICE

Position of door gasket end is described in step 2.



POSITION THE DOOR GASKET IN THE CORRECT DIRECTION AND PLACE THRU THE HINGES FOR EASIER ADJUSTMENT AND INSTALLATION.

NOTICE

Apply silicone to notches in double door the same as in single doors

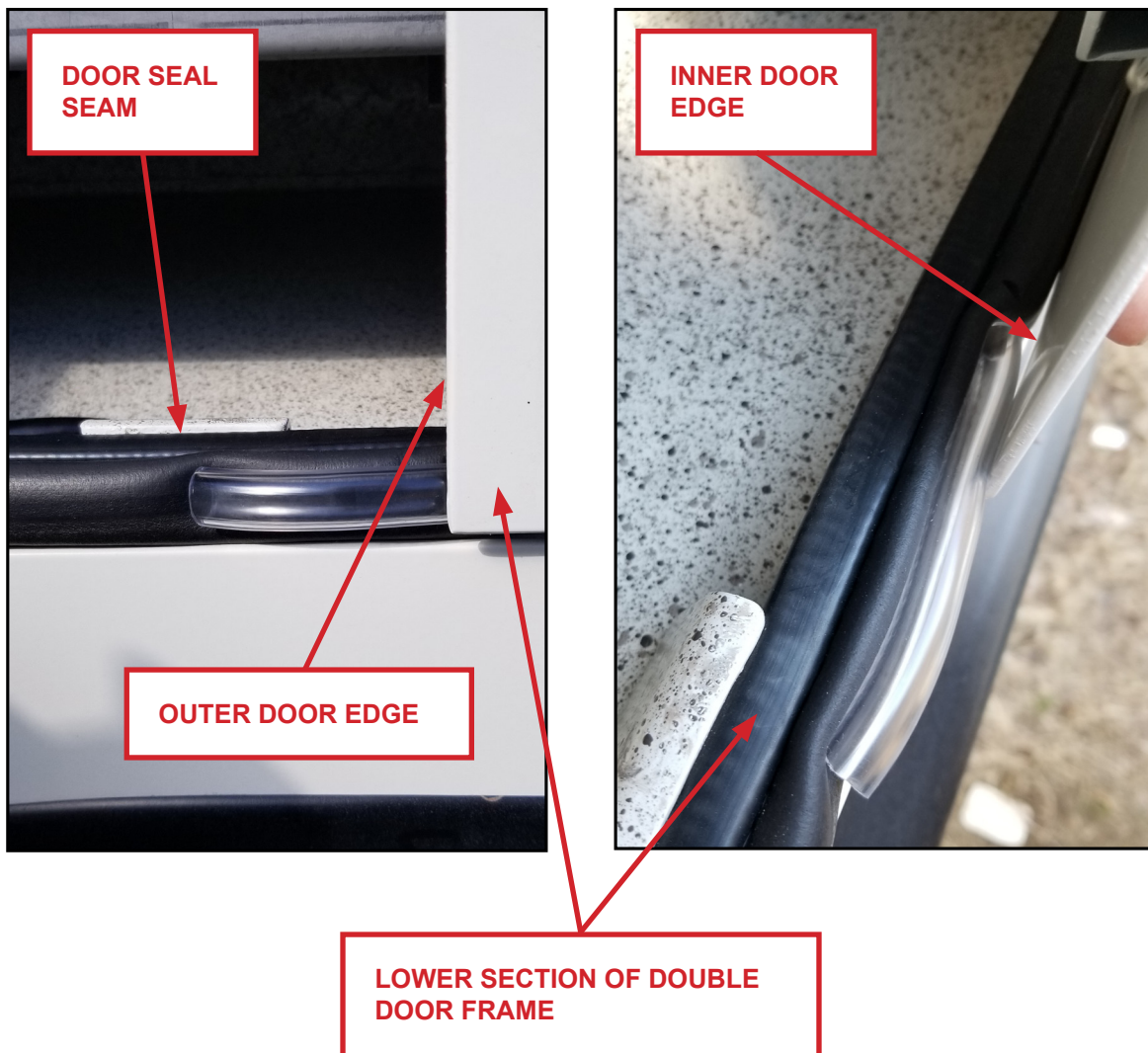
Installation of Double Door Gasket and Vinyl Tubing

6. Start by applying one seam of the door gasket onto the bottom of the door frame. The position of the seam needs to be behind the inner door about ½ inch from the outside edge of the door. Work your way into the 1st corner, then up the side of the frame behind the hinges (using rubber mallet and pry bar if needed) until the 2nd corner. Make sure to keep the corners pushed tight. If needed remove the door dampeners (shocks). Work the door seal into the 3rd corner and behind the door hinges by moving the door back and forth so you have room behind the hinges to work the door gasket onto the edge. Use a pry bar to push the door gasket on and a rubber mallet to evenly install the door gasket. When you reach the 4th corner, install tight and continue until it is necessary to trim excess door gasket, leaving about 1 inch excess after cutting for pressure retention between the seams. Trim the door gasket ends as straight as possible.



Installation of Double Door Gasket and Vinyl Tubing

7. The 3.5 inch vinyl tubing needs to be installed correctly based on the beginning of the first seam. The vinyl tubing needs to be positioned so it is installed into both bulb seams and between the inner door and outer door. Insert the 3.5 inch vinyl tubing into the bulb seam about 1/2 inch behind the inner door seam, using the silicone. Apply the silicone to the seam and edge trim and apply around the tubing where it meets the seam. On the second seam, apply silicone to the bulb and edge trim. Slide the rest of the 3 inches of the tubing inside the 2nd seam tight and push the seam onto the edge, flush. Work the door gasket down on the edge trim. Wipe off excess silicone leaving the silicone in the center to make a flush molded seal. (Lubricant can be added to the tubing for assemble easier. Before applying silicone remove any oil or grease from the sealing surfaces.)



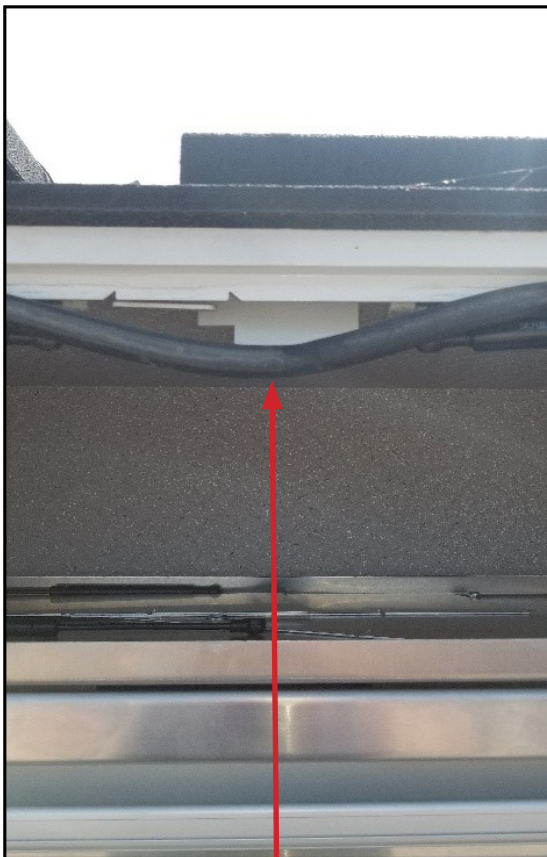
Installation of Double Door Gasket and Vinyl Tubing

How to install vinyl tubing and silicone the seams:

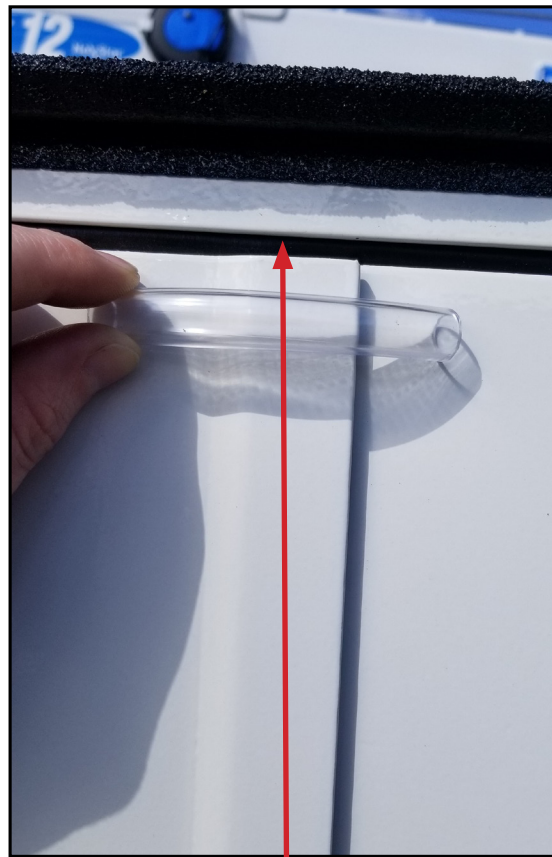


Installation of Double Door Gasket and Vinyl Tubing

8. Once the bottom seams of the door frame are complete, pull the door gasket down from the top of the door frame where the 2nd 3.5 inch tubing will be installed and sealed. Once the door gasket is pulled down enough away from the edge to cut the door gasket into 2 pieces, cut the door gasket keeping the cut straight. After cutting the door gasket, install the tubing as the same as the bottom portion by installing the tubing 1/2 inch into the door gasket seam behind the inner door and 3 inches inside the other seam leading to the outer door. Silicone the door gasket edge trim that was removed to cut and install the tubing. Silicone the tubing seam area, the bulb, and edge trim and install the seams flush and flat. Wipe away excess silicone leaving the silicone in the center to make a flush molded seal. (Lubricant can be added to the tubing to assembly easier. Before applying silicone remove any oil or grease from the sealing surfaces.)

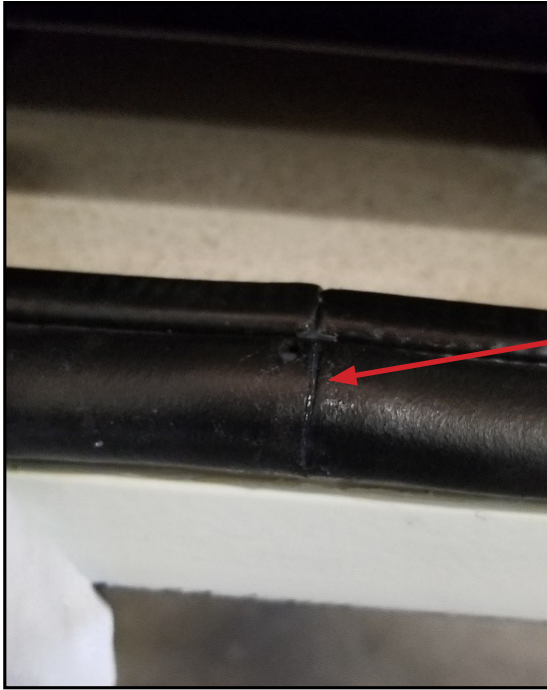


**TOP PORTION OF DOOR
GASKET PULLED DOWN TO
MAKE CLEARANCE TO CUT
WITH SHEARS.**



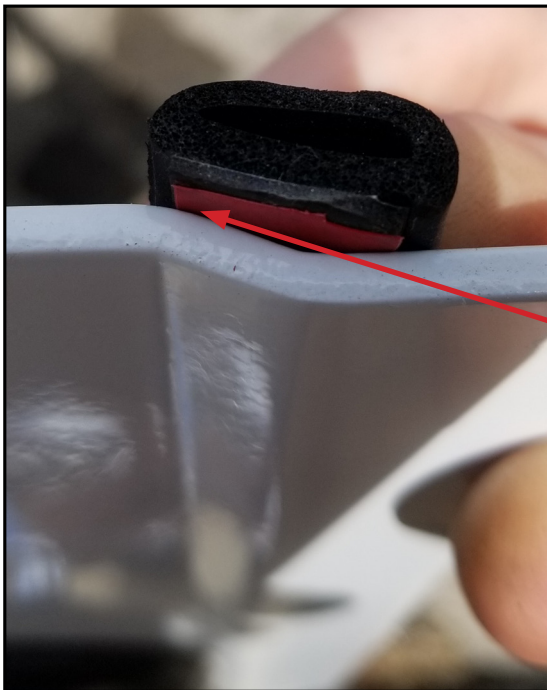
**ACCOMPLISH TOP PORTION
IN SIMILAR FASHION AS THE
BOTTOM.**

Installation of Double Door Gasket and Vinyl Tubing



**SEAM FILLED WITH SILICONE
THAT HAS BEEN WIPED CLEAN
TO ALLOW FOR A FLUSH SEAL.**

9. The door seam gasket (D-shaped seal with adhesive) must be applied to the full length of the outer door. It must be applied to the inside radius of the double bend. Before applying gasket to door, position the red tape in line with the tangent line of the radius as shown below.



**RED TAPE IN LINE WITH
TANGENT OF RADIUS**

Installation of Double Door Gasket and Vinyl Tubing

10. Cut door seam gasket to full length of door and apply flush. Firmly press gasket into door to make sure adhesive holds



NOTICE

Now that the door gasket is installed on the door frame, the T-handle, roller guides and door rods will need to be adjusted to accommodate the extra diameter and pressure from the vinyl tubing and door seam gaskets. Review the roller guide, door rod and T-handle section of the work instructions to adjust the doors properly.

Roller Guide, Door Rods and T-handle Adjustment

Adjustment time: 10 minutes per door

List of materials needed to perform adjustment:

- Pry bar
- Table top vise
- Small rubber mallet
- SAE allen wrench pack

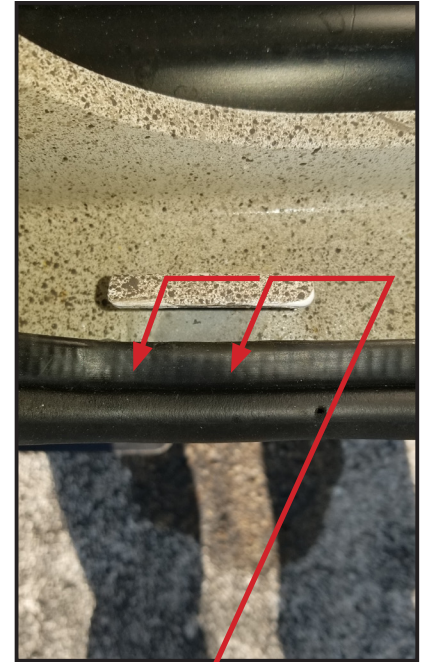
The final phase of the work instructions, the adjustment of these components will not only help seal the door better, it will help by allowing the T-handle latch to open easily but remain a tight 3 point contact with the locking system. To help evenly distribute and close any gaps and set in the door gasket, pressure is required to ensure that the door face meets the bulb seal 100% around the doors.

Once all of the modifications have been performed, the T-handle gasket installation, the caulking inspection and repair, the removal and installation of the tape gasket, the installation of door gaskets and backer rods. Adjustment of the door rod, roller guide, and T-handle will be required due to the stiffness of the backer rod and pressure required for the double doors and on the single doors to remain leak free.

Single door Adjustments

1. The adjustment of the roller guides may be required. The roller guide may need to be pried in small gap increments (1/16 inch, 1/8 inch, 3/16 inch, 1/4 inch) in the direction of the back of the compartment. This will tighten the door rod rollers and pull the door into the door gasket when turning the T-handle to the close the door.

Roller Guide, Door Rods and T-handle Adjustment

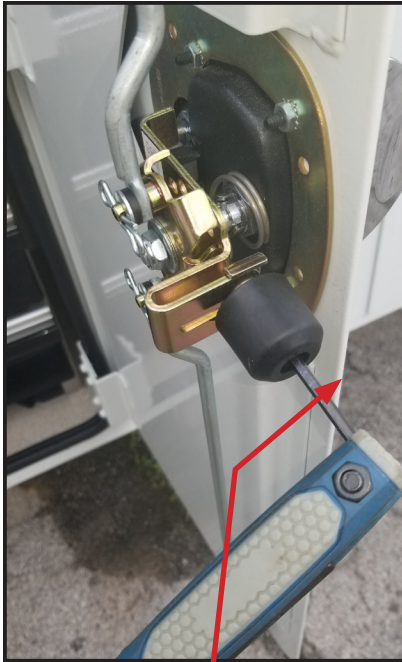


ROLLER GUIDE ADJUSTMENT ON SINGLE DOORS. GAP THE DOOR FRAME'S TOP AND BOTTOM ROLLER GUIDE AWAY FROM THE DOOR GASKET SO THE DOOR WILL MAINTAIN CONSTANT PRESSURE WHEN CLOSED.

VERIFY T-HANDLE LATCH WILL OPERATE CORRECTLY AFTER ADJUSTMENT. IF NEEDED, ADJUST ROLLER GUIDE TOWARDS THE DOOR GASKET UNTIL THE T-HANDLE WHALE TAIL TURNS EASILY.

2. After adjustment, the T-handle whale tail should turn moderately with one hand without pushing in on the door. You will notice as you turn the T-handle that the door pressure against the bulb will increase and flatten the bulb seal. The adjustments should be performed evenly to the top and bottom roller guide. If the T-handle whale tail is difficult to turn due to over-gapping the roller guide, shorten the gap with a mallet until the T-handle whale tail will turn with moderate ease.
3. After the adjustment of the roller guide, adjustment of the T-handle pivot tensioner will need to be performed. On most single doors the black bump stop roller with its allen head screw will need to be positioned to its tightest setting. Loosen the allen head screw and pull the black bump stop roller toward the inside of the door until it stops then tighten. Close the door and turn the T-handle latch to lock the door, then close the whale tail into its stowage position. If closing the whale tail in the stowage position is extremely difficult then loosen the black bump stop roller and adjust accordingly.

Roller Guide, Door Rods and T-handle Adjustment



**SINGLE DOOR
ADJUSTMENT
DIRECTION.**



NOTICE

When the T-handle whale tail is stowed in its locked position, it should pull the door into the door frame even tighter. If it doesn't pull the middle of the door tighter then it is not contacting with the door frame. The middle of the door will not retain tension and could leak water. This can cause the T-handle whale tail to open during mobile operation.

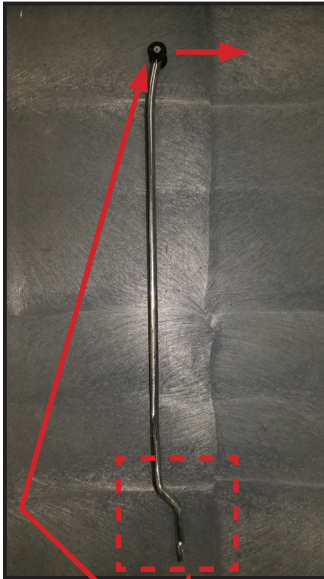
Double Door Adjustments

Correct adjustments of the latching system is crucial to help remain easy operation and pressure to help maintain the compartments to be leak free. The opposite will be performed on the double doors due to the extra diameter of the door seal backer rods. Without adjustments to the rods and T-handle latching system, it will be next to impossible to operate and close, and the doors will not shut correctly.

The adjustment of the door rods will need to be performed, The roller guide on most double doors will most likely be at the closed position so adjustment of the striker roller guide will not affect the tension on the doors unless it is gapped in the direction of the back of the compartment. if there is a gap between the striker plate and the door seal edge trim then it can be adjusted by using a rubber mallet and closing the gap if necessary.

Roller Guide, Door Rods and T-handle Adjustment

1. Remove the doors rods from the T-handle pivot retainer and place the door rod in a vice so that about 4 inches is sticking up beneath the rollers. The direction the door rods are placed in the vice is crucial to perform the bend in the correct direction. In 99% of adjustments, the bend of the roller neck will need to be in the same direction as the bend that is in the lower portion of the door that meets the T-handle pivot tensioner. This bend will allow the rollers to meet the tapered portion of the striker plate when the doors are close instead of the flat portion of the striker plate which will make the T-handle whale tail difficult to turn to shut.



**DIRECTION TO
BEND ROD NECK
ROLLER HEAD
WHEN ORIENTED
CORRECTLY.**



NOTICE

Bending the neck of the rod rollers too far will result in a loss of pressure against the door and door seal and could potentially develop a leak. When the rod bend is correct, pressure from the latching system when the door is closed and shut, will be great enough to close all the door seal gaps evenly against the backer rod and the rest of the door. The D-profile gasket should be crushed flat against the door seal and inner door when the door is closed and shut.

Roller Guide, Door Rods and T-handle Adjustment



NOT BENT FAR ENOUGH



BENT TOO FAR



BENT CORRECTLY

Roller Guide, Door Rods and T-handle Adjustment

2. After the adjustment of the door rods and/or roller guide, adjustment of the T-handle pivot tensioner will need to be performed. The black bump stop roller with its allen head screw will need to be positioned so that the whale tail will shut moderately in the stowage position. Loosen the allen head screw and adjust the black bump stop roller accordingly so when the door is closed and shut, and the whale tail is in the stowage position, it closes the doors gap between the inner and outer door. This adjustment should put even more pressure on at top, middle, and bottom of the D-profile gasket.



**DOUBLE
ADJUSTMENT
DIRECTION**

NOTICE

Close the door and turn the T-handle latch to shut the door then close the whale tail into its stowage position. If closing the whale tail in the stowage position is extremely difficult then loosen the black bump stop roller and adjust accordingly.

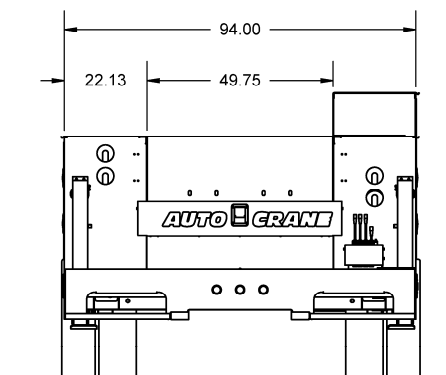
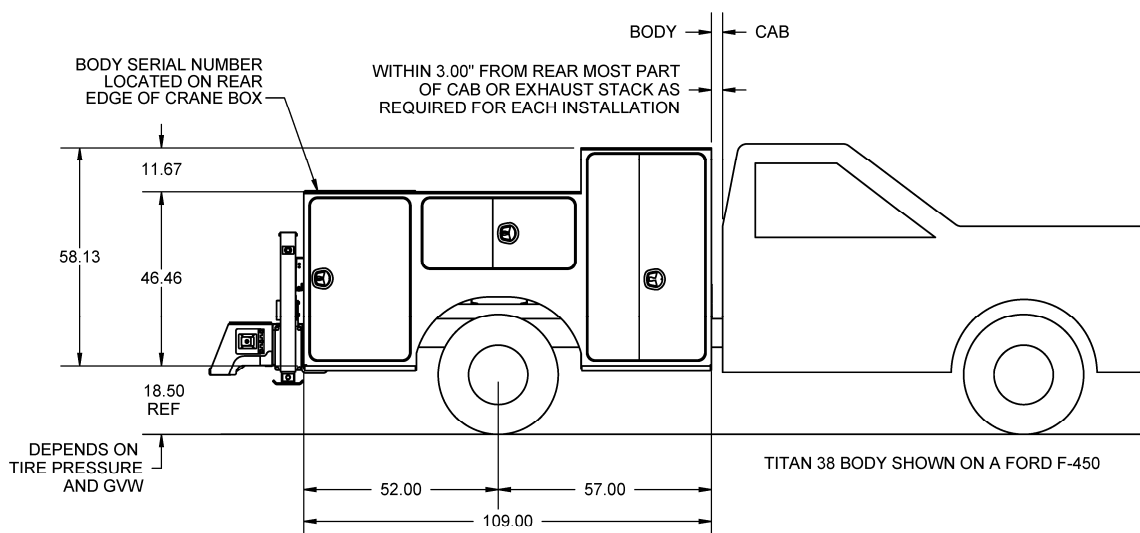
Roller Guide, Door Rods and T-handle Adjustment

3. When the T-handle whale tail is stowed in the locked position it should pull the door into the door frame even tighter. If it doesn't pull the middle of the door tighter then it is not contacting with the inner door strike plate and the middle of the door will not retain tension and could leak water. This can cause the T-handle whale tail to open during mobile operation.



GENERAL DIMENSIONS

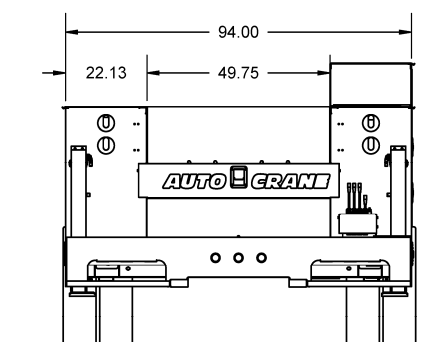
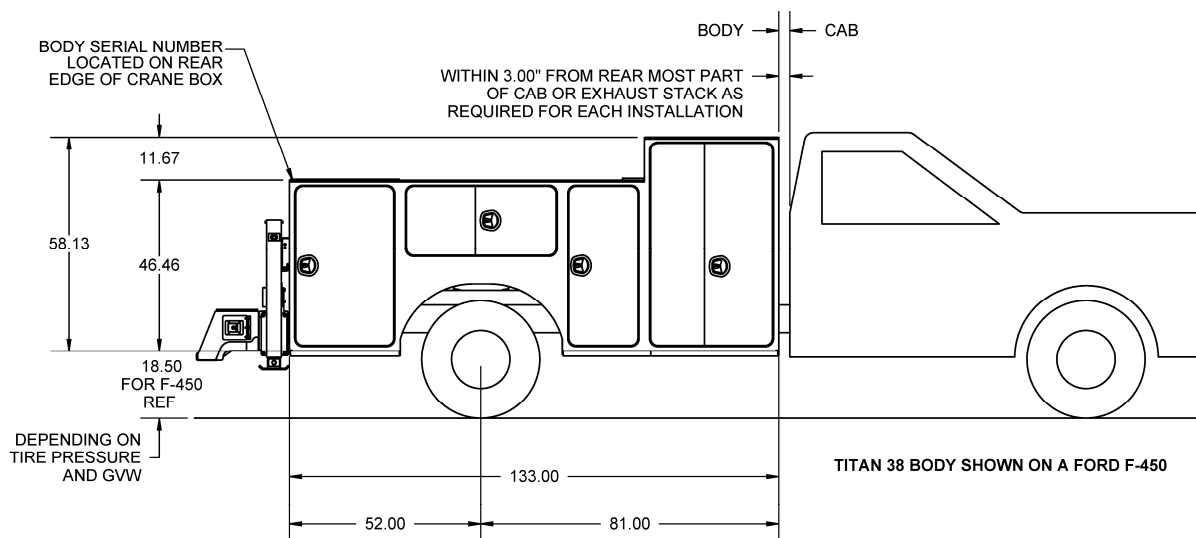
TITAN 38



60CA				
COMPARTMENT	WIDTH	HEIGHT	DEPTH	CU. FT.
FRONT STD	34 5/8	46	21 7/8	20.16
FRONT TALL	34 5/8	57 3/4	21 7/8	25.31
HORIZONTAL	44	21 1/2	21 7/8	11.98
REAR	29 15/16	46	21 7/8	17.43
INSIDE COMPARTMENT SIZES (STD)		TOTAL BODY CU. FT.		99.14
INSIDE COMPARTMENT SIZES (TALL)		TOTAL BODY CU. FT.		104.29

GENERAL DIMENSIONS

TITAN 38

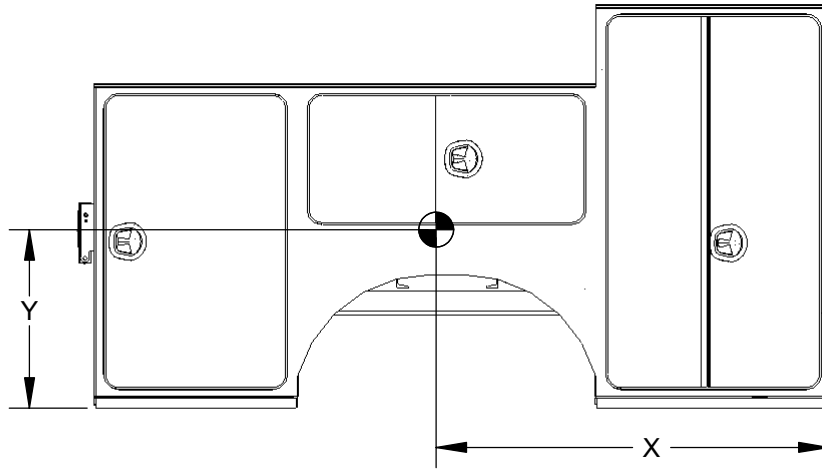


84CA				
COMPARTMENT	WIDTH	HEIGHT	DEPTH	CU. FT.
FRONT STD	36 1/4	46	21 7/8	21.11
FRONT TALL	36 1/4	57 3/4	21 7/8	26.50
MID	22 1/4	46	21 7/8	12.96
HORIZONTAL	44	21 1/2	21 7/8	11.98
REAR	29 15/16	46	21 7/8	17.43
INSIDE COMPARTMENT SIZES (STD)		TOTAL BODY CU. FT.		126.95
INSIDE COMPARTMENT SIZES (TALL)		TOTAL BODY CU. FT.		132.34

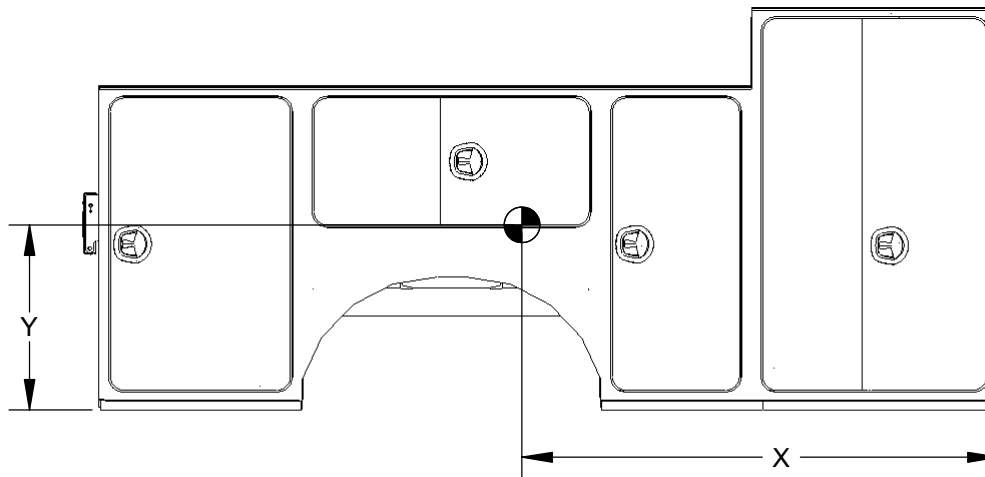
NOTES

BODY CG INFORMATION

TITAN 38



TITAN 38/60CA SHOWN

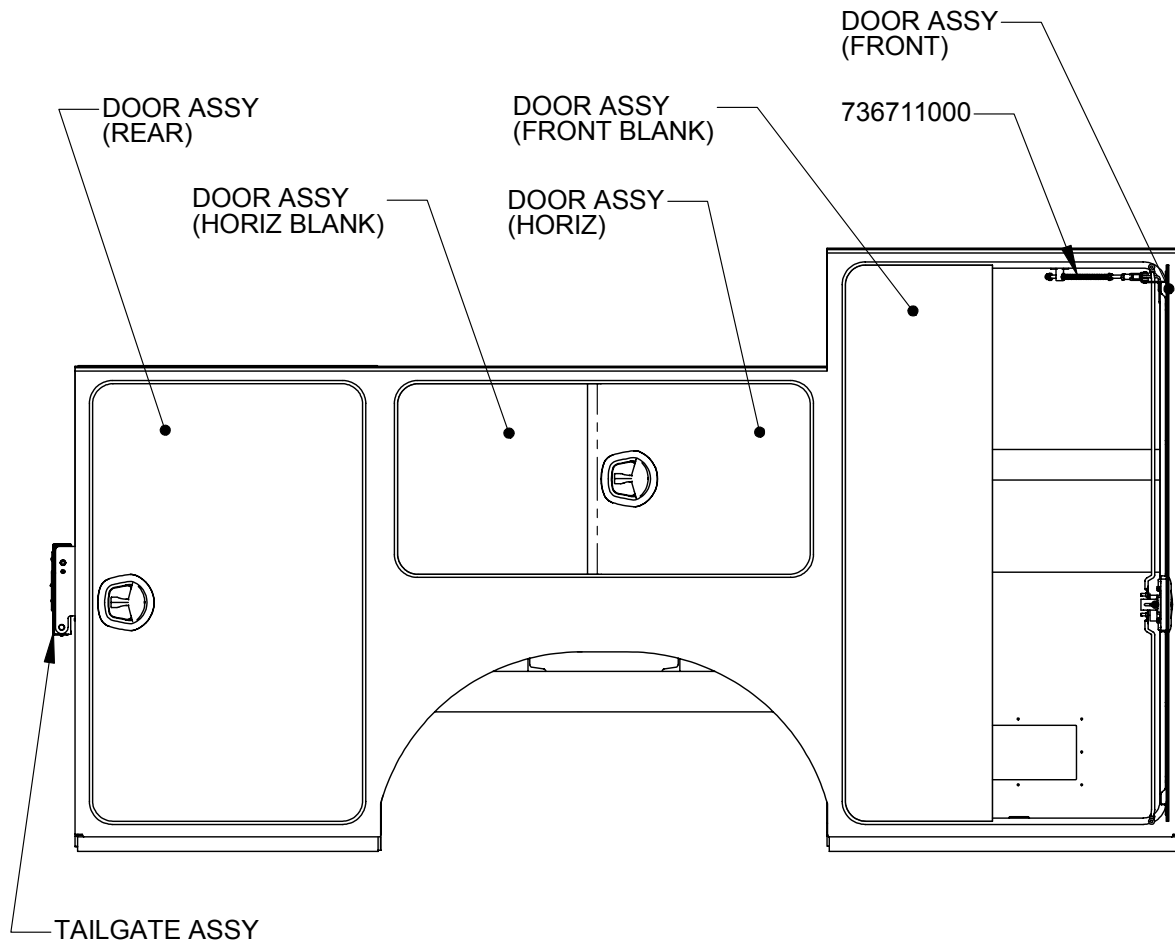


TITAN 38/84CA SHOWN

BODY CONFIGURATION	X	Y
TITAN 38/60CA STANDARD	61.05	25.68
TITAN 38/60CA STANDARD TALL	59.97	26.32
TITAN 38/84CA SINGLE TALL	72.60	27.40
TITAN 38/84CA DOUBLE TALL	70.40	27.40

BODY ASSEMBLY

TITAN 38/60CA – P/N: 738770-XXX



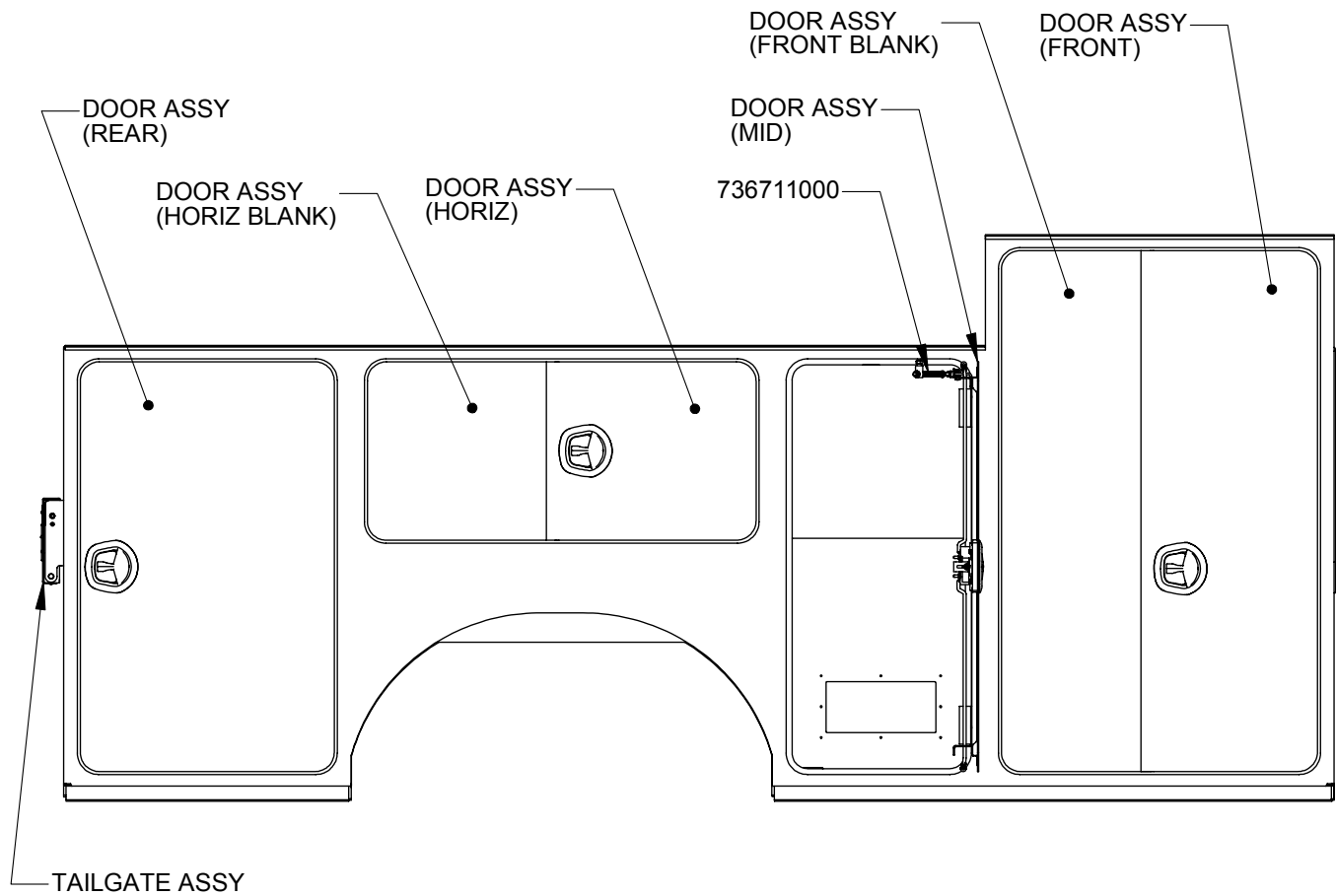
BODY ASSEMBLY

TITAN 38/60CA – P/N: 738770-XXX

BODY ASSY CHART		-001 STD CS CRN	-002 CS TALL CS CRN	-003 STD SS CRN	-004 CS TALL SS CRN
BODY WELD STD CS CRN	738771001	1			
BODY WELD CS TALL CS CRN	738771002		1		
BODY WELD STD CS CRN	738771003			1	
BODY WELD CS TALL CS CRN	738771004				1
DOOR ASSY FRONT STD SS	738595017	1	1	1	1
DOOR ASSY FRONT STD CS	738595018	1		1	
DOOR ASSY FRONT STD BLANK SS	738595019	1	1	1	1
DOOR ASSY FRONT STD BLANK CS	738595020	1		1	
DOOR ASSY FRONT TALL SS	738595021				
DOOR ASSY FRONT TALL CS	738595022		1		1
DOOR ASSY FRONT TALL BLANK SS	738595023				
DOOR ASSY FRONT TALL BLANK CS	738595024		1		1
DOOR ASSY HORIZ SS	738595011	1	1	1	1
DOOR ASSY HORIZ CS	738595012	1	1	1	1
DOOR ASSY HORIZ BLANK SS	738595013	1	1	1	1
DOOR ASSY HORIZ BLANK CS	738595014	1	1	1	1
DOOR ASSY REAR SS	738595015	1	1	1	1
DOOR ASSY REAR CS	738595016	1	1	1	1
TAILGATE ASSY	560080000	1	1	1	1
DOOR CHECK ASSY	736711000	10	10	10	10
SHIP KIT	738544000	1	1	1	1

BODY ASSEMBLY

TITAN 38/84CA – P/N: 738500-XXX



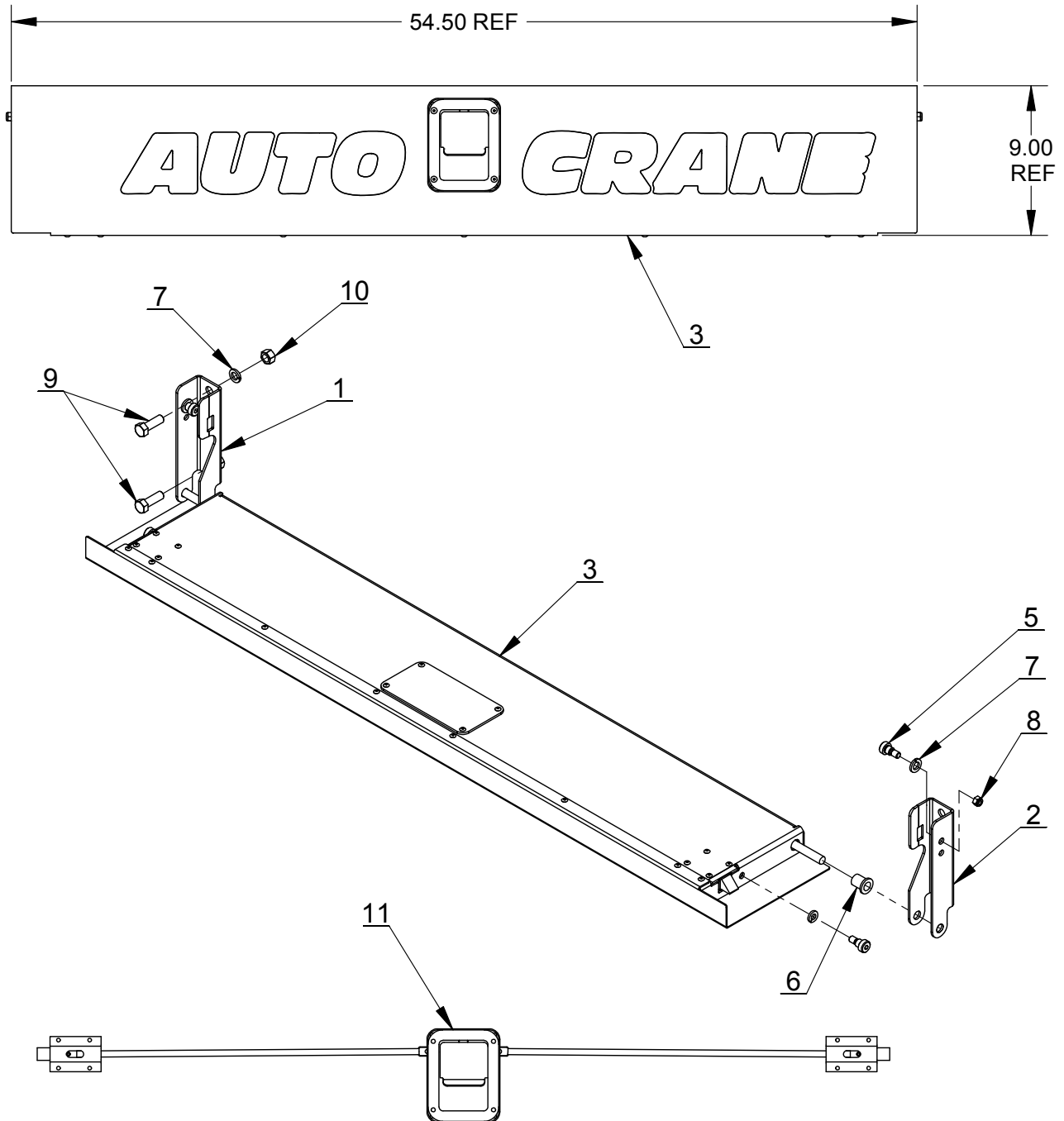
BODY ASSEMBLY

TITAN 38/84CA – P/N: 738500-XXX

BODY ASSEMBLY CHART		-001 BODY ASSY CS TALL CS CRN	-002 BODY ASSY SS TALL CS CRN	-003 BODY ASSY CS/SS TALL CS CRN	-004 BODY ASSY CS STD CS CRN	-005 BODY ASSY CS TALL SS CRN	-006 BODY ASSY SS TALL SS CRN	-007 BODY ASSY CS/SS TALL SS CRN	-008 BODY ASSY CS STD SS CRN
BODY WELD CS TALL CS CRN	738501001	1							
BODY WELD SS TALL CS CRN	738501002		1						
BODY WELD CS/SS TALL CS CRN	738501003			1					
BODY WELD CS/SS STD CS CRN	738501004				1				
BODY WELD CS TALL SS CRN	738501005					1			
BODY WELD SS TALL SS CRN	738501006						1		
BODY WELD CS/SS TALL SS CRN	738501007							1	
BODY WELD CS STD SS CRN	738501008								1
DOOR ASSY FRONT TALL SS	738595001		1	1			1	1	
DOOR ASSY FRONT TALL CS	738595002	1		1		1		1	
DOOR ASSY FRONT TALL BLANK SS	738595003		1	1			1	1	
DOOR ASSY FRONT TALL BLANK CS	738595004	1		1		1		1	
DOOR ASSY FRONT STD SS	738595005	1			1	1			1
DOOR ASSY FRONT STD CS	738595006		1		1		1		1
DOOR ASSY FRONT STD BLANK SS	738595007	1			1	1			1
DOOR ASSY FRONT STD BLANK CS	738595008		1		1		1		1
DOOR ASSY MID SS	738595009	1	1	1	1	1	1	1	1
DOOR ASSY MID CS	738595010	1	1	1	1	1	1	1	1
DOOR ASSY HORIZ SS	738595011	1	1	1	1	1	1	1	1
DOOR ASSY HORIZ CS	738595012	1	1	1	1	1	1	1	1
DOOR ASSY HORIZ BLANK SS	738595013	1	1	1	1	1	1	1	1
DOOR ASSY HORIZ BLANK CS	738595014	1	1	1	1	1	1	1	1
DOOR ASSY REAR SS	738595015	1	1	1	1	1	1	1	1
DOOR ASSY REAR CS	738595016	1	1	1	1	1	1	1	1
TAILGATE ASSY	560080000	1	1	1	1	1	1	1	1
DOOR CHECK ASSY	736711000	12	12	12	12	12	12	12	12
SHIP KIT	738544000	1	1	1	1	1	1	1	1

TAILGATE ASSEMBLY

TITAN SERIES – P/N: 560080000



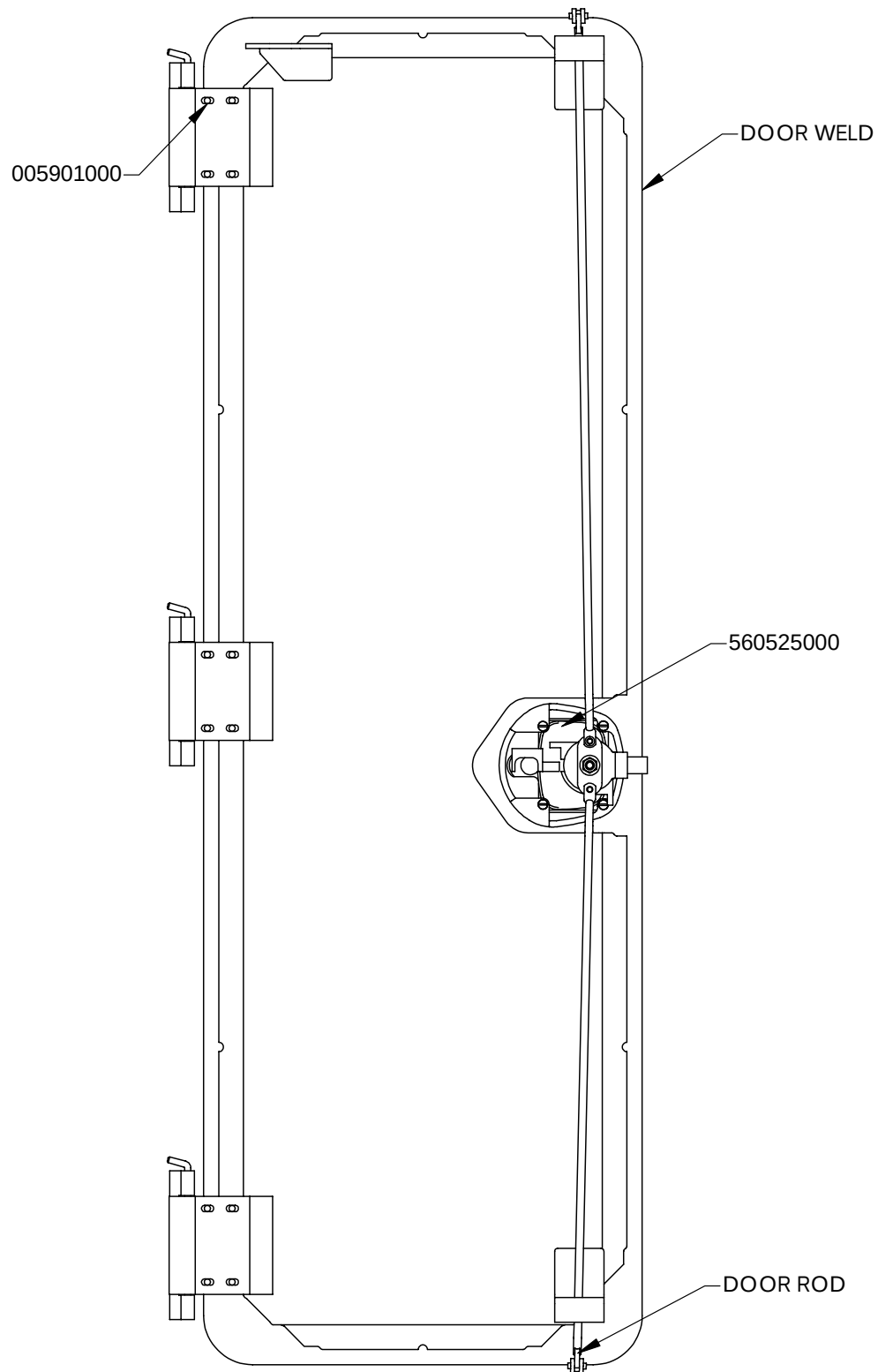
TAILGATE ASSEMBLY

TITAN SERIES – P/N: 560080000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	560085000	TAILGATE MTG BRKT WDMT LH
2	1	560088000	TAILGATE MTG BRKT WDMT RH
3	1	560081000	TAILGATE SUB ASSY
**4	2	560090000	CABLE ASSY TAILGATE
5	2	560091000	SCREW SHOULDER 1/2 X 3/8-16UNC
6	2	736738000	TAILGATE BUSHING
7	4	021500000	WASHER SP LK 1/2
8	2	016801000	NUT HX NYLK 5/16-18UNC CP
9	2	010201000	SCREW HX HD 1/2-13UNC x 1 1/2 LG
10	2	017701000	NUT HX 1/2-13UNC
*11	1	560092000	LATCH ASSEMBLY TAILGATE
*	THIS ITEM IS A PART OF ITEM #3		
**	ITEM NOT SHOWN		

DOOR ASSEMBLY

TITAN SERIES – P/N: 738595-XXX



DOOR ASSEMBLY

TITAN SERIES – P/N: 738595-XXX

DOOR ASSEMBLY CHART		-001 DOOR ASSY FRONT TALL SS	-002 DOOR ASSY FRONT TALL CS	-003 DOOR ASSY FRONT TALL BLANK SS	-004 DOOR ASSY FRONT TALL BLANK CS	-005 DOOR ASSY FRONT STD SS	-006 DOOR ASSY FRONT STD CS	-007 DOOR ASSY FRONT STD BLANK SS	-008 DOOR ASSY FRONT STD BLANK CS	-009 DOOR ASSY MID SS	-010 DOOR ASSY MID CS	-011 DOOR ASSY HORIZ SS	-012 DOOR ASSY HORIZ CS
DOOR WELD FRONT TALL SS	738596001	1											
DOOR WELD FRONT TALL CS	738596002		1										
DOOR WELD FRONT TALL BLANK SS	738596003			1									
DOOR WELD FRONT TALL BLANK CS	738596004				1								
DOOR WELD FRONT STD SS	738596005					1							
DOOR WELD FRONT STD CS	738596006						1						
DOOR WELD FRONT STD BLANK SS	738596007							1					
DOOR WELD FRONT STD BLANK CS	738596008								1				
DOOR WELD MID SS	738596009									1			
DOOR WELD MID CS	738596010										1		
DOOR WELD HORIZ SS	738596011											1	
DOOR WELD HORIZ CS	738596012												1
DOOR LATCH	560525000	1	1			1	1			1	1	1	1
DOOR ROD	560415000	1	1			2	2			2	2		
DOOR ROD TALL	560417000	1	1										
DOOR ROD HORIZ	560416000											2	2
HINGE ASSY BODY	560115000	3	3	3	3	3	3	3	3	3	3	2	2
SCREW HX HD 1/4-20UNC (HINGE)	560259000	12	12	12	12	12	12	12	12	12	12	8	8

NOTES

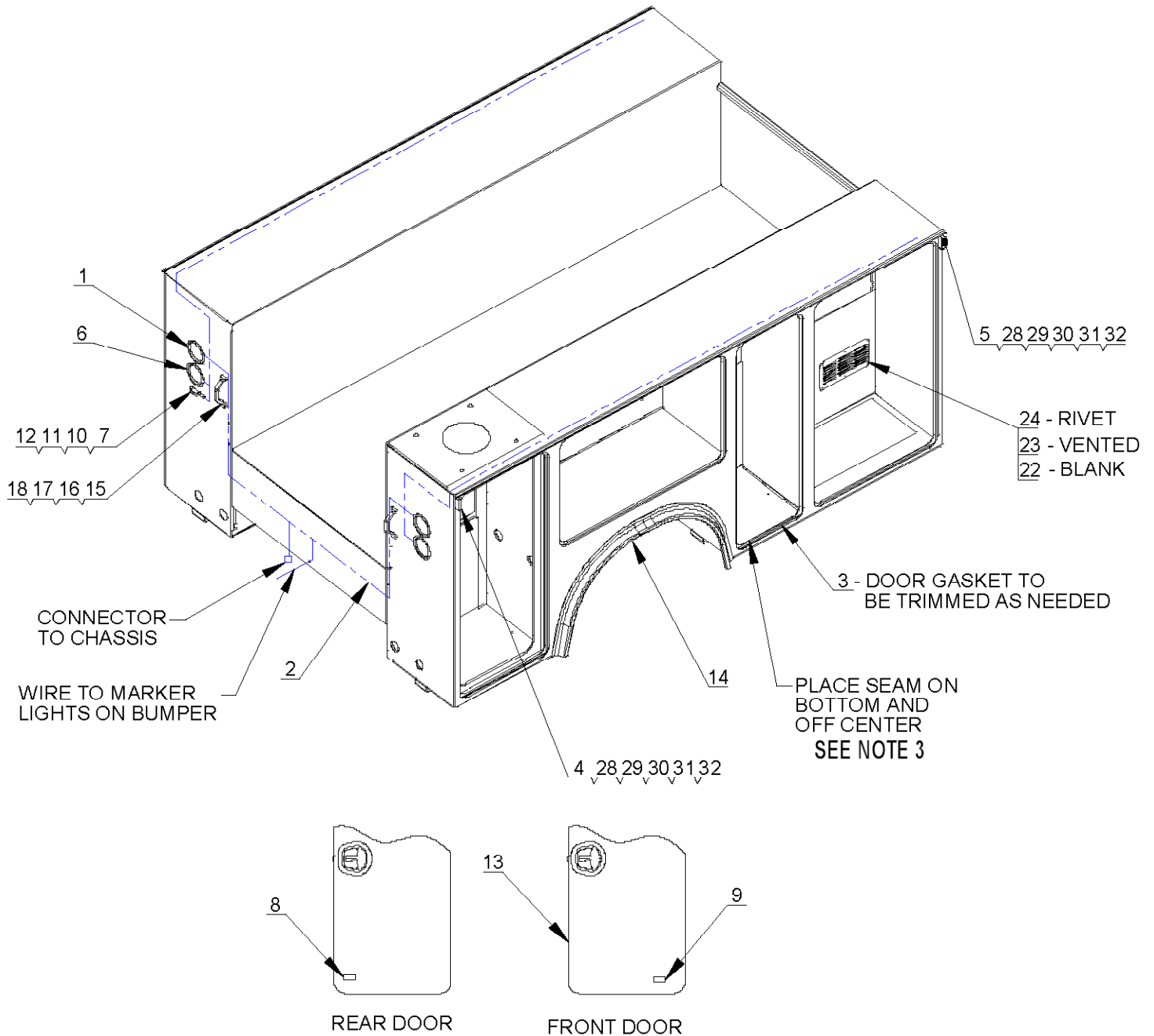
DOOR ASSEMBLY

TITAN SERIES – P/N: 738595-XXX

DOOR ASSEMBLY CHART		-013 DOOR ASSY HORIZ BLANK SS	-014 DOOR ASSY HORIZ BLANK CS	-015 DOOR ASSY REAR SS	-016 DOOR ASSY REAR CS	-017 DOOR ASSY FRONT STD SS 60CA	-018 DOOR ASSY FRONT STD CS 60CA	-019 DOOR ASSY FRONT STD BLANK SS 60CA	-020 DOOR ASSY FRONT STD BLANK CS 60CA	-021 DOOR ASSY FRONT TALL SS 60CA	-022 DOOR ASSY FRONT TALL CS 60CA	-023 DOOR ASSY FRONT TALL BLANK SS 60C	-024 DOOR ASSY FRONT TALL BLANK CS 60C
DOOR WELD HORIZ BLANK SS	738596013	1											
DOOR WELD HORIZ BLANK CS	738596014		1										
DOOR WELD REAR CS	738596015			1									
DOOR WELD REAR SS	738596016				1								
DOOR WELD FRONT STD SS 60CA	738596017					1							
DOOR WELD FRONT STD CS 60CA	738596018						1						
DOOR WELD FRONT STD BLANK SS 60CA	738596019							1					
DOOR WELD FRONT STD BLANK CS 60CA	738596020								1				
DOOR WELD FRONT TALL SS 60CA	738596021									1			
DOOR WELD FRONT TALL CS 60CA	738596022										1		
DOOR WELD FRONT TALL BLANK SS 60CA	738596023											1	
DOOR WELD FRONT TALL BLANK CS 60CA	738596024												1
DOOR LATCH	560525000			1	1	1	1			1	1		
DOOR ROD	560415000			2	2	2	2			1	1		
DOOR ROD TALL	560417000									1	1		
DOOR ROD HORZ	560416000												
HINGE ASSY BODY	560115000	2	2	3	3	3	3	3	3	3	3	3	3
SCREW HX HD 1/4-20UNC (HINGE)	560259000	8	8	12	12	12	12	12	12	12	12	12	12

SHIP KIT

TITAN SERIES – P/N: 738544000



NOTES:

1. COMPARTMENT AREA. P/N'S 750738000 AND 750737000 ARE TO BE USED TO SECURE WIRE HARNESS IN COMPARTMENT AREA.
2. P/N 560540000 INSTALLED IN LARGE HOLE AT CLEARANCE LIGHT AREA. APPLY P/N 750736000 WITH WIRING HARNESS TO GROMMET AT CLEARANCE LIGHT.
3. APPLY ATV SEALANT TO ONE END OF THE DOOR GASKET. PRESS BOTH ENDS TOGETHER AFTER INSTALLING. SMEAR ANY EXCESS SEALANT AROUND THE SEAM WHEN COMPLETE.

SHIP KIT

TITAN SERIES – P/N: 738544000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	560104000	LAMP STOP/TURN AND TAIL LED
2	1	560106000	HARNESS, WIRING BODY
3	1	560114000	GASKET, DOOR
4	2	560451000	LAMP CLEARANCE MARKER RED
5	2	560450000	LAMP CLEARANCE MARKER AMB
6	2	759337000	LAMP BACK-UP
7	1	750980000	LAMP LICENSE W/BACKET
8	2	560453000	REFLECTOR RED
9	2	560542000	REFLECTOR AMBER
10	2	002609000	SCREW RD HD #10-32UNF X 5/8 LG
11	2	019900000	WASHER FL LK #10
12	2	015800000	NUT HX LK #10-32UNF
13	154"	750740000	GASKET DOUBLE DOORS
14	1	738597001	FENDERETTE INST'N KIT
15	2	750863000	HANDLE
16	8	015900000	NUT HX 1/4-20UNC
17	14	020200000	WASHER SP LK 1/4
18	8	330389304	SCREW SOC HD 1/4-20UNC X 3/4 LG
*19	12	750737000	TIE CABLE
*20	12	750738000	STICK-ON, CABLE TIE MOUNT
*21	2	750732000	ROCK GUARD
22	2	752222000	BLANK PANEL F/CUTOUT
23	1	752221000	VENT PANEL F/CUTOUT
24	16	754028000	RIVET 3/16 (1/4 - 3/8 GRIP)
*25	4	560449000	BRACKET MOUNTING
*26	2	738706000	COVER FUEL LINE
*27	6	005800000	SCREW 1/4-20UNC X 1/2 LG
28	8	000602000	SCREW RD HD SLOT #6-32 UNC X 1 LG
29	8	015400000	NUT HEX #6-32 UNC
30	8	019600000	WASHER SP LK #6
31	4	560540000	GROMMET, NYLON
32	32in	750736000	LOOM, CONVOLUTED
*	ITEMS NOT SHOWN		

NOTES

VEHICLE PREPARATIONS AND OUTRIGGER OPERATIONAL INSTRUCTIONS

VEHICLE PREPARATION FOR OUTRIGGER AND CRANE OPERATION

1. Park vehicle within crane operating distance from object that is to be lifted.
Notes:
 - Make sure there are no obstructions preventing safe handling of load during crane operation.
 - Verify that no obstructions will prevent the full extension of the outrigger legs on both sides of vehicle.
 - Regardless of load to be lifted the outriggers should always be fully extended to keep vehicle stable.
 - Grade shall not exceed 1° of level. Level truck with blocks if grade exceeds 1° of level.
2. **ALWAYS** set the vehicle emergency brake before beginning crane operations.
3. Use wheel chocks on the front wheels of vehicle.

INSPECT OUTRIGGERS BEFORE USE

1. Visually inspect outrigger before use making sure the outrigger is in good working order.
2. Replace or repair any worn or damaged parts before outrigger operation.
3. Check for and repair leaks on hydraulic units if they occur.

MANUAL OUTRIGGER OPERATION

1. Un-hook the sling from around the outrigger leg.
2. Extend outrigger slide from stowed position by releasing pull pin and extending the outrigger slide fully.
3. Make sure the slide is fully extended and locked into position with pull pin.
4. Lower both outrigger legs until they contact the ground then extend another inch to insure good ground contact.

Notes:

- Use blocks under pads to increase surface area if required for stability on soft ground.
- **DO NOT LIFT TRUCK WHEELS WITH OUTRIGGERS.** The outriggers are intended for vehicle stability during lifting operations not for complete vehicle support.

MANUAL OUTRIGGER STOWING PROCEDURE

5. Fully retract vertical legs to stowed position.
6. Retract outrigger slide from extended position by releasing pull pin and pushing slide in fully.
7. Make sure the slide is fully retracted and locked into position with pull pin.
8. Make sure the sling is secured in place around the outrigger leg.

HYDRAULIC OUTRIGGER OPERATION

1. Divert hydraulic flow from control valve to outrigger operations.
2. Use the hydraulic control valve to extend outrigger slide from stowed position to the fully extended position.
3. Make sure the slide is fully extended.
4. Lower both outrigger legs until they contact the ground then extend another inch to insure good ground contact.

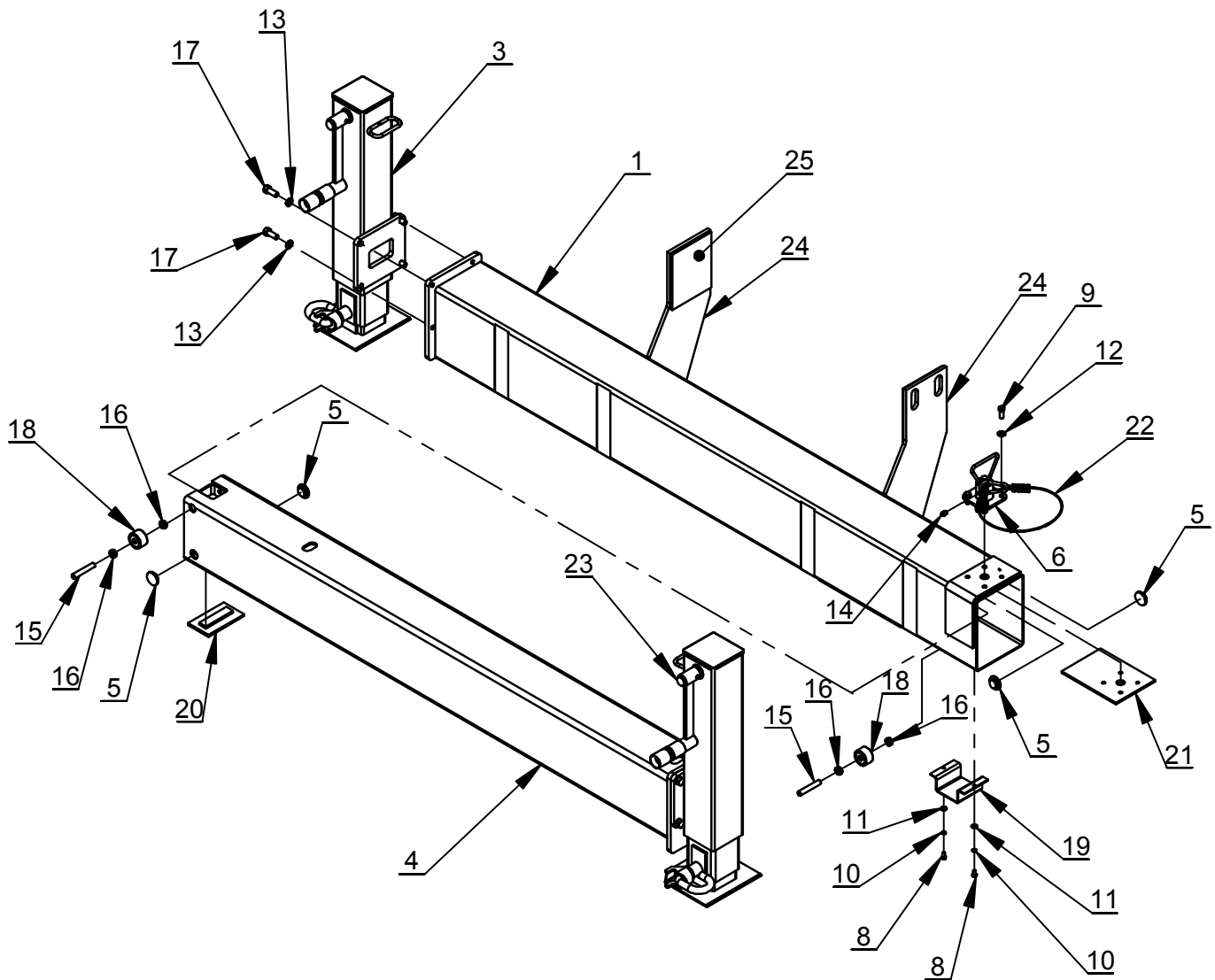
Notes:

- Use blocks under pads to increase surface area if required for stability on soft ground.
- **DO NOT LIFT TRUCK WHEELS WITH OUTRIGGERS.** The outriggers are intended for vehicle stability during lifting operations not for complete vehicle support.

HYDRAULIC OUTRIGGER STOWING PROCEDURE

5. Fully retract vertical legs to stowed position.
6. Retract outrigger slide from extended to the fully retracted.
7. Make sure the slide is fully retracted and in the stowed position.

OUTRIGGER ASSY, FULLY MANUAL **CURB SIDE – P/N: 738896000**

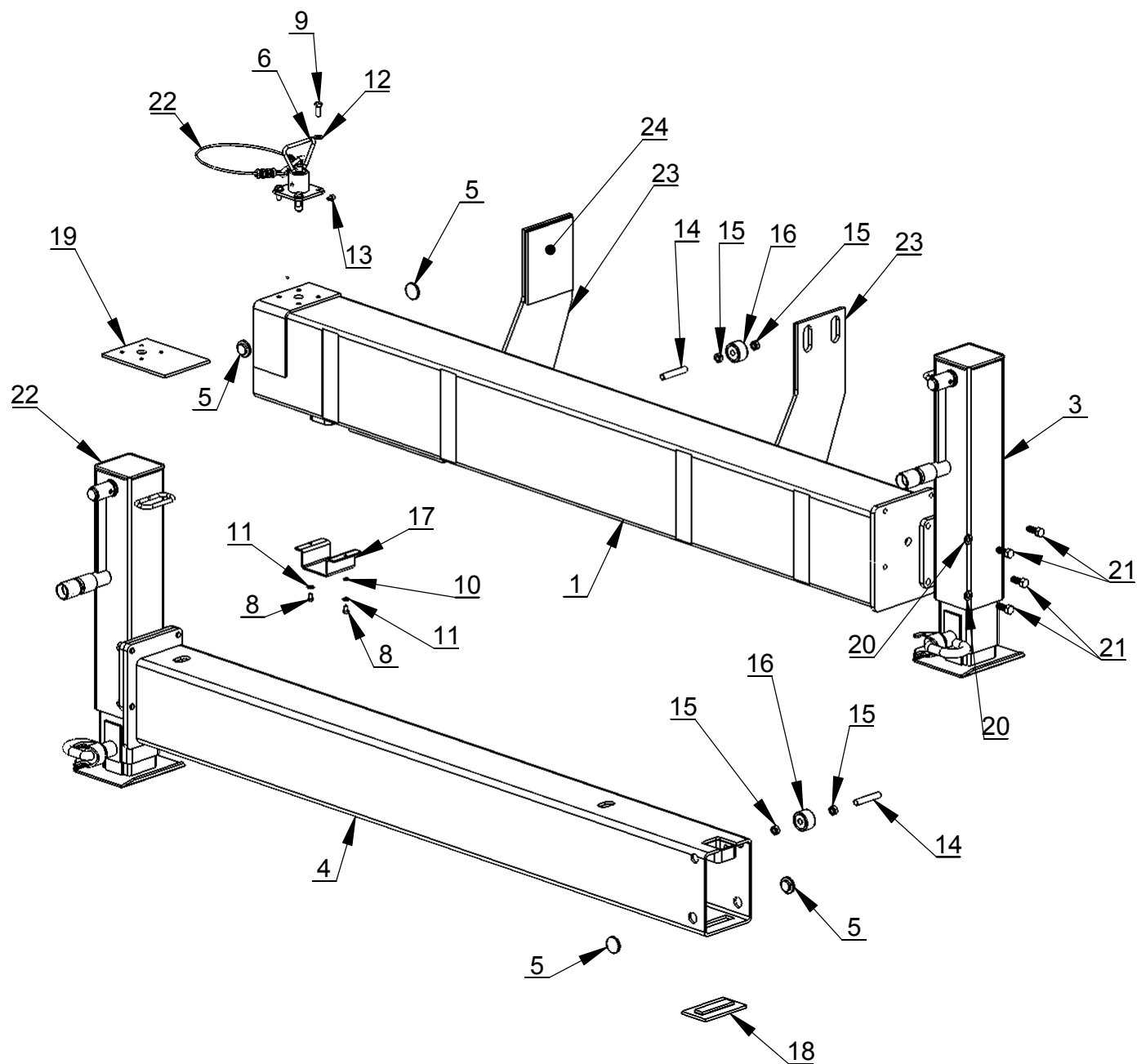


OUTRIGGER ASSY, FULLY MANUAL CURB SIDE – P/N: 738896000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738602000	TITAN 38 OUTRIGGER TUBE WELD (MANUAL)
2	1	738645000	SHIP KIT TITAN 38 OUTRIGGER
3	1	738898000	TITAN 38 LEG WELD SS MANUAL
4	1	738888000	TITAN 38 SLIDE ASSY CS MANUAL
5	4	407277000	PAD BOOM 1.5 O.D.
6	1	738685000	PULL PIN WELD (REMOVABLE)
7	1	738606000	DECAL LAYOUT MANUAL
8	2	005901000	SCREW HX HD 1/4-20UNC X 1/2 LG
9	4	008800000	SCREW HX HD 3/8-24UNF X 1 LG
10	2	020200000	WASHER SP LK 1/4
11	2	020400000	WASHER FL SAE 1/4
12	4	021200000	WASHER FL 3/8
13	4	021500000	WASHER SP LK 1/2
14	1	239300000	ZERK, GREASE
*15	1	372218000	SCREW SET 1/2UNC X 3 LG
*16	2	372219000	NUT, HX JAM 1/2-13UNC
17	4	738647000	SCREW HX HD 1/2-13UNC X 1 1/4 LG GR8
*18	1	240234000	BEARING, NEEDLE
19	1	372216000	COVER ROLLER
20	1	460055000	WEAR PAD, TOP MID
21	1	738682000	DOUBLER PULL PIN
22	1	772067000	SLING, OUTRIGGER
*23	1	738899000	TITAN 38 LEG WELD CS MANUAL
**24	2	738563001	TITAN 38 BUMPER SUPPORT F/HITCH
**25	2	738669000	BAR RT 1/4 X 3 X 5.75
*	ITEMS ARE PART OF ITEM #4		
**	ITEMS ARE PART OF ITEM #2		

NOTES

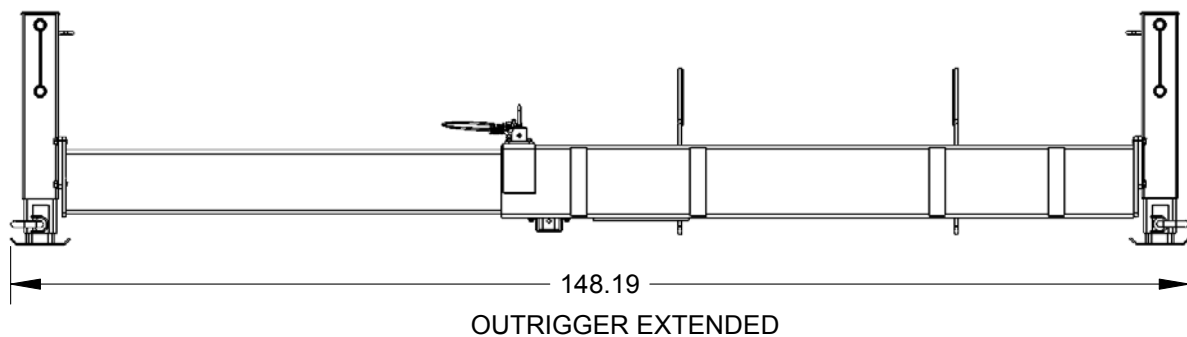
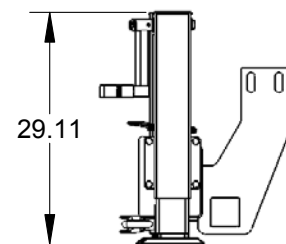
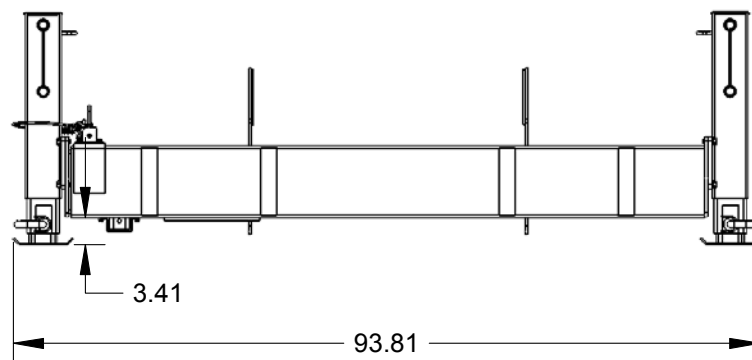
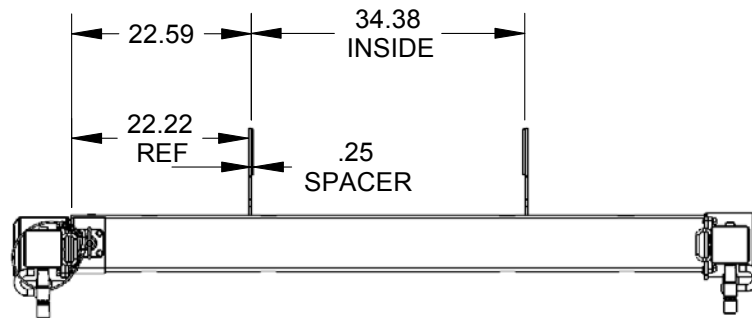
OUTRIGGER ASSY, FULLY MANUAL STREET SIDE – P/N: 738897000



OUTRIGGER ASSY, FULLY MANUAL STREET SIDE – P/N: 738897000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738602001	TITAN 38 OUTRIGGER TUBE WELD (MANUAL)
2	1	738645000	SHIP KIT TITAN 38 OUTRIGGER
3	1	738899000	TITAN 38 LEG WELD CS MANUAL
4	1	738888001	TITAN 38 SLIDE ASSY SS MANUAL
5	4	407277000	PAD BOOM 1.5 O.D.
6	1	738685000	PULL PIN WELD (REMOVABLE)
7	1	738606000	DECAL LAYOUT MANUAL
8	2	005901000	SCREW HX HD 1/4-20UNC X 1/2 LG
9	4	008800000	SCREW HX HD 3/8-24UNF X 1 LG
10	2	020200000	WASHER SP LK 1/4
11	2	020400000	WASHER FL SAE 1/4
12	4	021200000	WASHER FL 3/8
13	1	239300000	ZERK, GREASE
*14	1	372218000	SCREW SET 1/2UNC X 3 LG
*15	2	372219000	NUT, HX JAM 1/2-13UNC
*16	1	240234000	BEARING, NEEDLE
17	1	372216000	COVER ROLLER
18	1	460055000	WEAR PAD, TOP MID
19	1	738682000	DOUBLER PULL PIN
20	4	021500000	WASHER SP LK 1/2
21	4	738647000	SCREW HX HD 1/2-13UNC X 1 1/4 LG GR8
22	1	738898000	TITAN 38 LEG WELD SS MANUAL
**23	2	738563001	TITAN 38 BUMPER SUPPORT F/HITCH
**24	2	738669000	BAR RT 1/4 X 3 X 5.75
*	ITEMS ARE PART OF ITEM #4		
**	ITEMS ARE PART OF ITEM #2		

OUTRIGGER ASSY, FULLY MANUAL STREET SIDE – P/N: 738897000



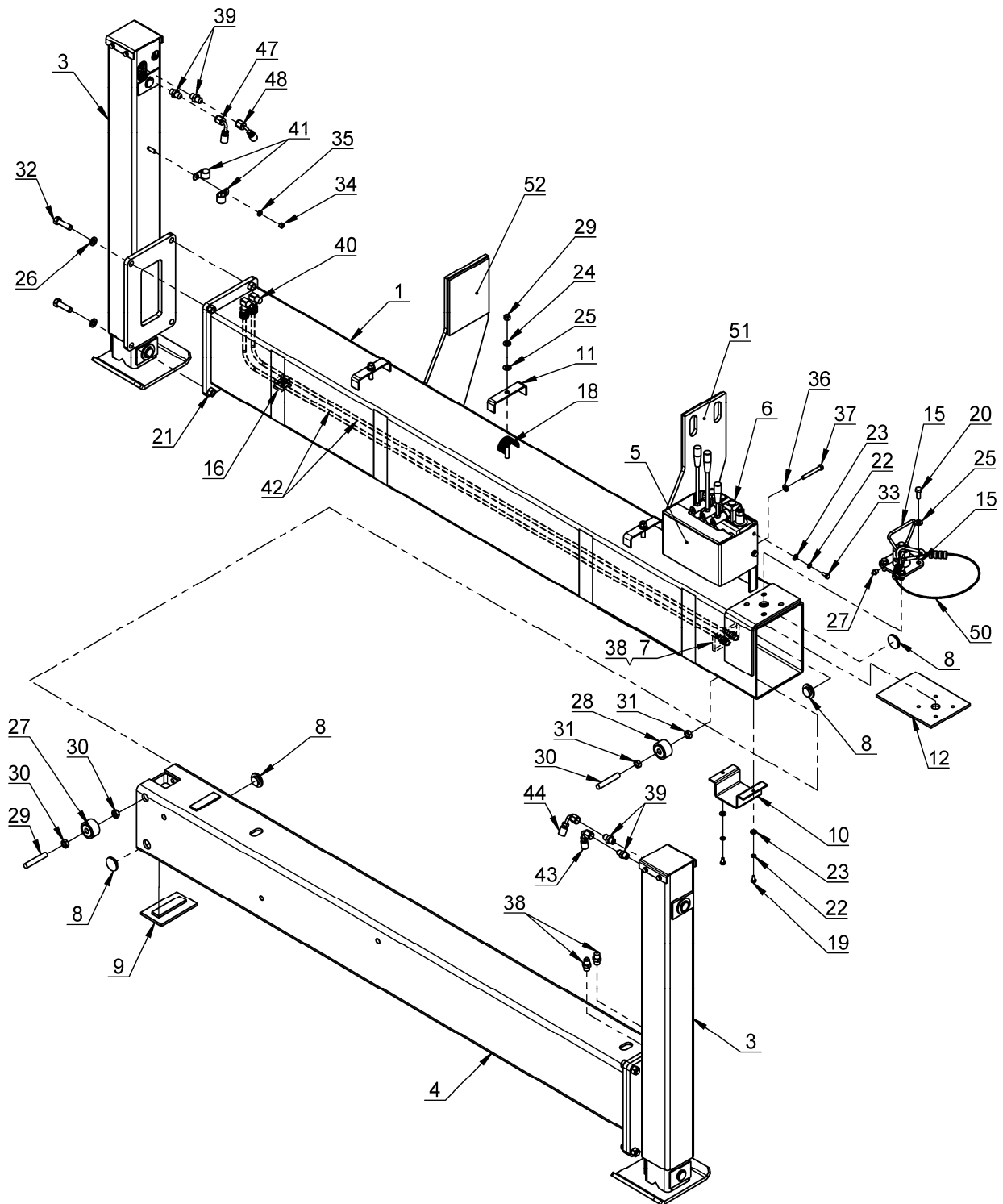
GENERAL DIMENSIONS

MANUAL EXTENSION
DISTANCE = 54.00in

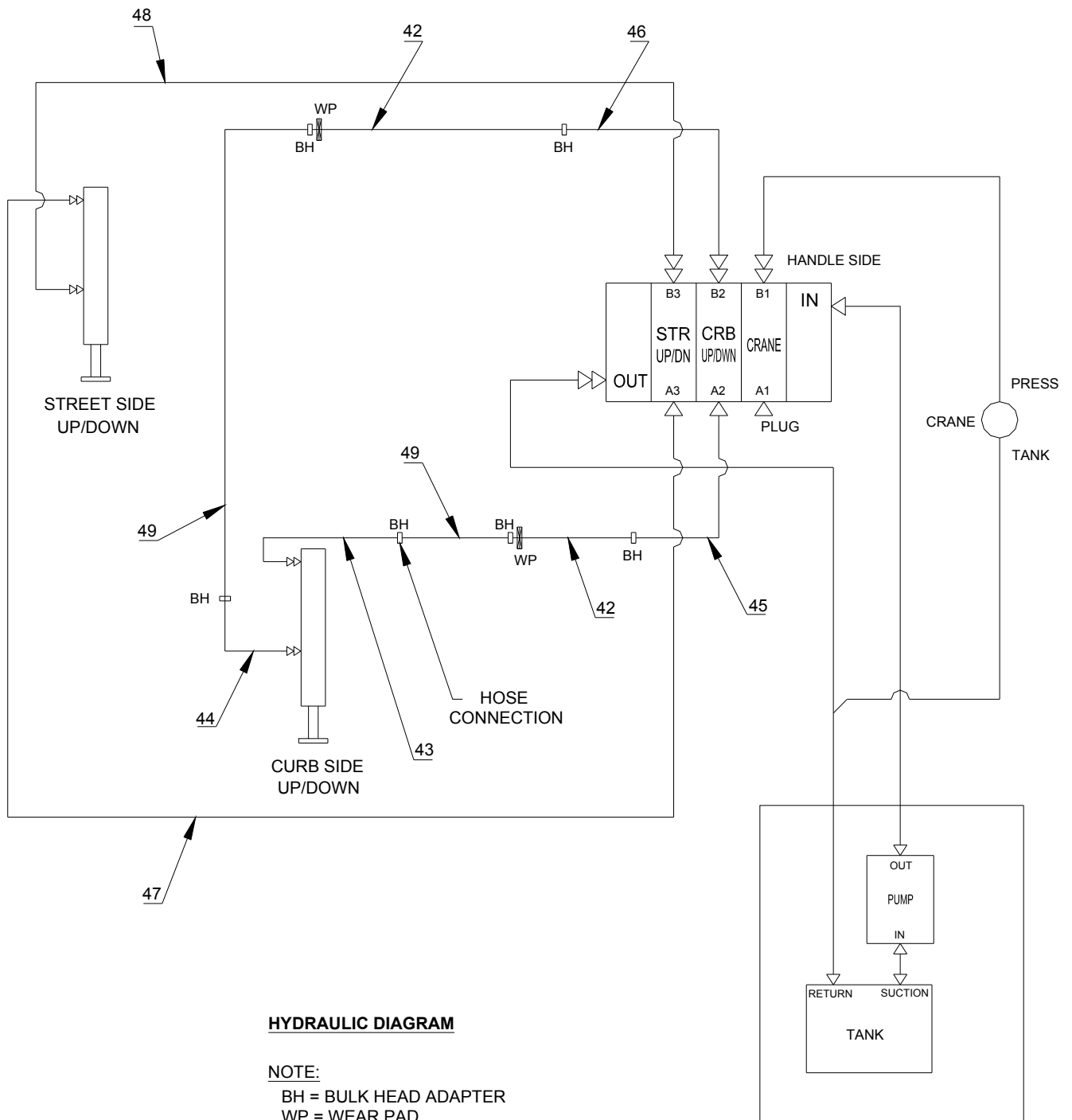
UP/DOWN LEG
STROKE = 27.00in

NOTES

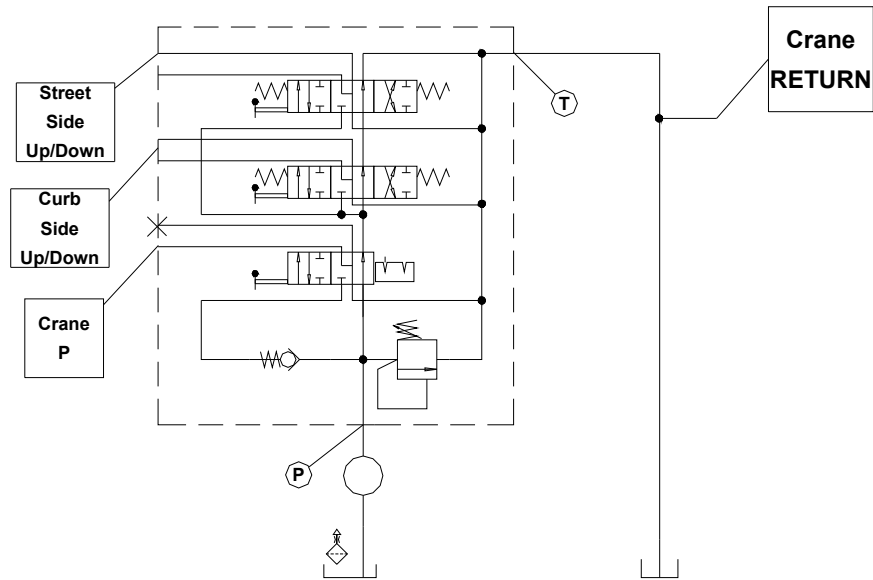
OUTRIGGER ASSY, MANUAL OUT HYD DOWN CURB SIDE – P/N: 738843000



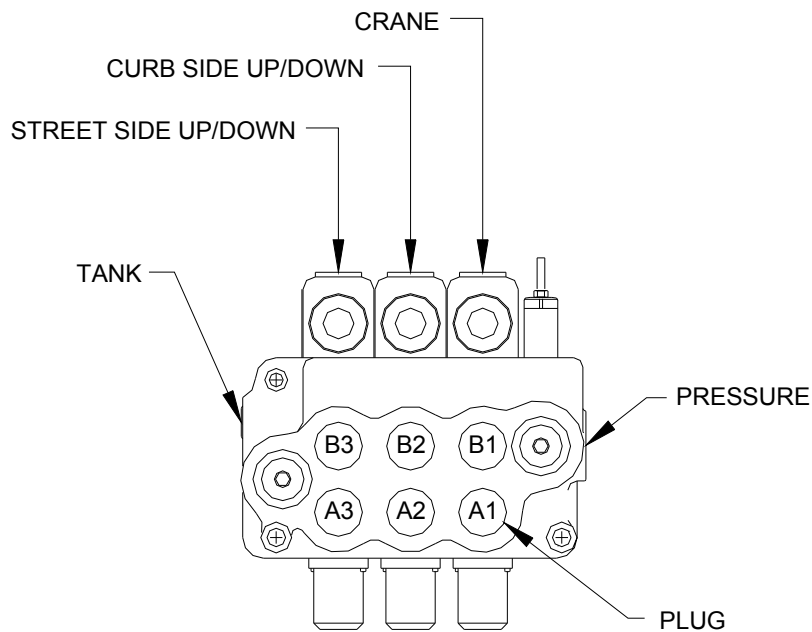
OUTRIGGER ASSY, MANUAL OUT HYD DOWN CURB SIDE – P/N: 738843000



OUTRIGGER ASSY, MANUAL OUT HYD DOWN CURB SIDE – P/N: 738843000



HYDRAULIC SCHEMATIC



DIRECTION CONTROL VALVE (REAR VIEW)

NOTE:

A-PORT BOTTOM

B-PORT HANDLE SIDE

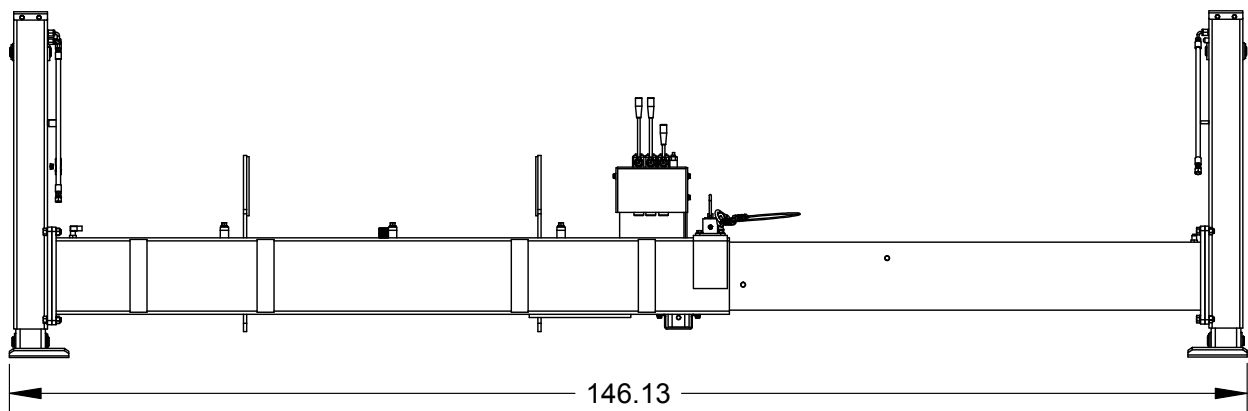
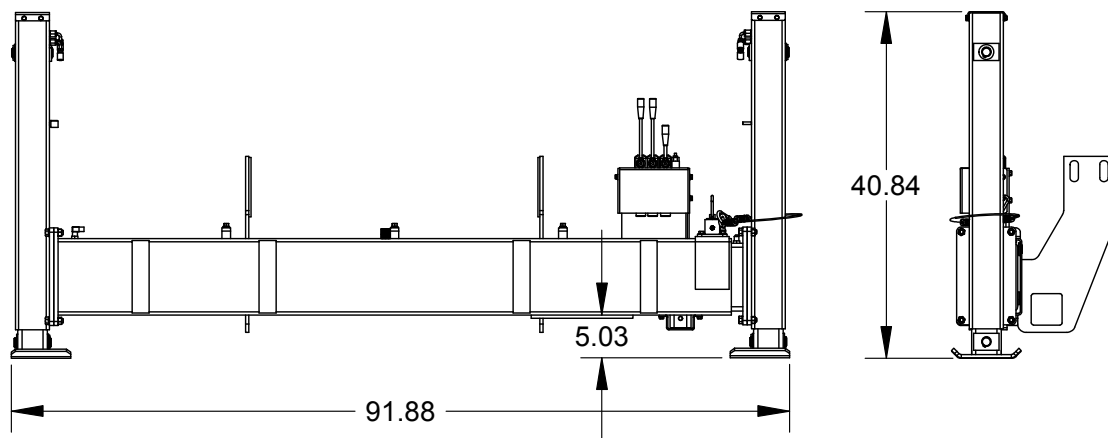
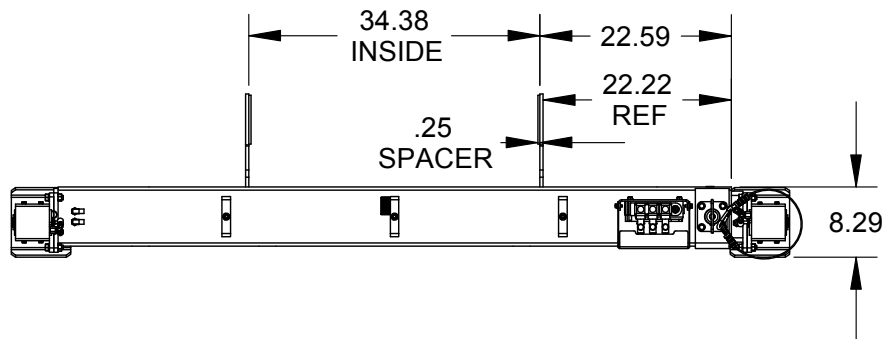
OUTRIGGER ASSY, MANUAL OUT HYD DOWN CURB SIDE – P/N: 738843000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738622000	TITAN 38 OUTRIGGER TUBE WELD MAN OUT HYD DN
2	1	738645000	SHIP KIT TITAN 38 OUTRIGGER
3	1	738837000	TITAN 38 HYD LEG ASSY
4	1	738848000	TITAN 38 SLIDE ASSY (MAN OUT HYD DN)
5	1	738632000	COVER, DIRECTIONAL CTR VALVE
6	1	738630000	CONTOL VALVE SUB-ASSY, 3 SECTION
7	1	738689000	WEAR PAD 1.75 X 3.5 X 3/8
8	4	407277000	PAD BOOM 1.5 O.D.
9	1	460055000	WEAR PAD, TOP MID
10	1	372216000	COVER ROLLER
11	3	407216000	HOSE RETAINER, 4.75 WIDE
12	1	738682000	DOUBLER PULL PIN
13	1	738634000	DECAL LAYOUT MAN OUT HYD DN
14	1	738847000	KIT, HYD OUTRIGGER (MAN OUT HYD DN)
15	1	760388000	PULL PIN WELD (REMOVABLE)
16	1	560186000	TUBING MTG ASSY (# 6)
17	1	715048000	EDGE TRIM 3/32
18	18	374086000	NYLON HOSE SLEEVE
19	2	005901000	SCREW HX HD 1/4-20UNC X 1/2 LG
20	3	008701000	SCW HX 3/8 UNC X 1 GR5
21	4	017701000	NUT HX 1/2-13UNC
22	5	020200000	WASHER SP LK 1/4
23	5	020400000	WASHER FL SAE 1/4
24	3	021100000	WASHER SP LK 3/8
25	7	021200000	WASHER FL 3/8
26	4	021500000	WASHER SP LK 1/2
27	1	239300000	ZERK, GREASE
28	1	240234000	BEARING, NEEDLE
29	3	330372000	NUT HX 3/8-16UNC
30	1	372218000	SCREW SET 1/2-13UNC X 3 LG
31	2	372219000	NUT, HX JAM 1/2-13UNC
32	4	738642000	SCREW HX HD 1/2-13UNC X 1 3/4 LG GR8
33	3	005401000	SCREW HX HD 1/4-20UNC X 5/8 LG CP
34	2	016500000	NUT HX 5/16-18UNC
35	2	020601000	WASHER SP LK 5/16
36	3	020901000	WASHER FL 5/16
37	3	811029000	SCREW HX HD 5/16-18UNC X 2 1/2 LG
*38	4	241170000	FITTING BULHD 6 SAE/6 JIC STRAIGHT
*39	4	200876000	FITTING 6 SAE/6 JIC STRAIGHT
*40	2	367136000	FITTING 90 6-SAE/6-JIC

OUTRIGGER ASSY, MANUAL OUT HYD DOWN CURB SIDE – P/N: 738843000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
*41	4	480024000	MOUNT PENDANT CABLE RETAINER
*42	2	738678000	TUBE ASSY -6 JICF X -6 TUBE
*43	1	812037023	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 23" LG
*44	1	812037025	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 25" LG
*45	1	812026070	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 70" LG
*46	1	812026071	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE X 71" LG
*47	1	812037092	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 92" LG
*48	1	812037096	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 96" LG
*49	2	812026134	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE X 134" LG
50	1	772067000	SLING, OUTRIGGER
**51	2	738563001	TITAN 38 OUTRIGGER SUPPORT
**52	2	738669000	
**53	1	738646000	INSTALLATION DRAWING
*	THESE ITEMS ARE PART OF ITEM #14		
**	THESE ITEMS ARE PART OF ITEM #2		

OUTRIGGER ASSY, MANUAL OUT HYD DOWN **CURB SIDE – P/N: 738843000**

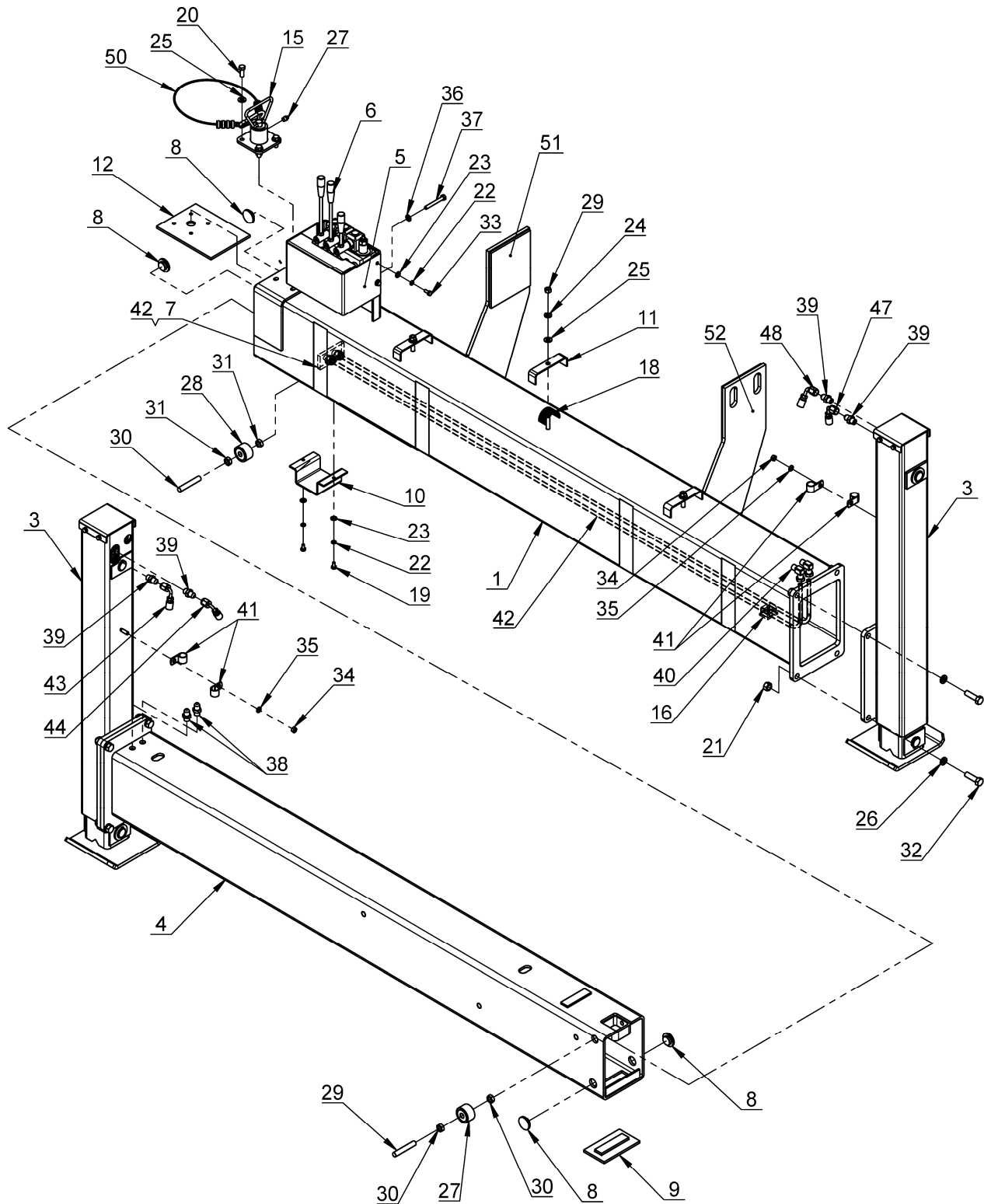


OUTRIGGER EXTENDED
GENERAL DIMENSIONS

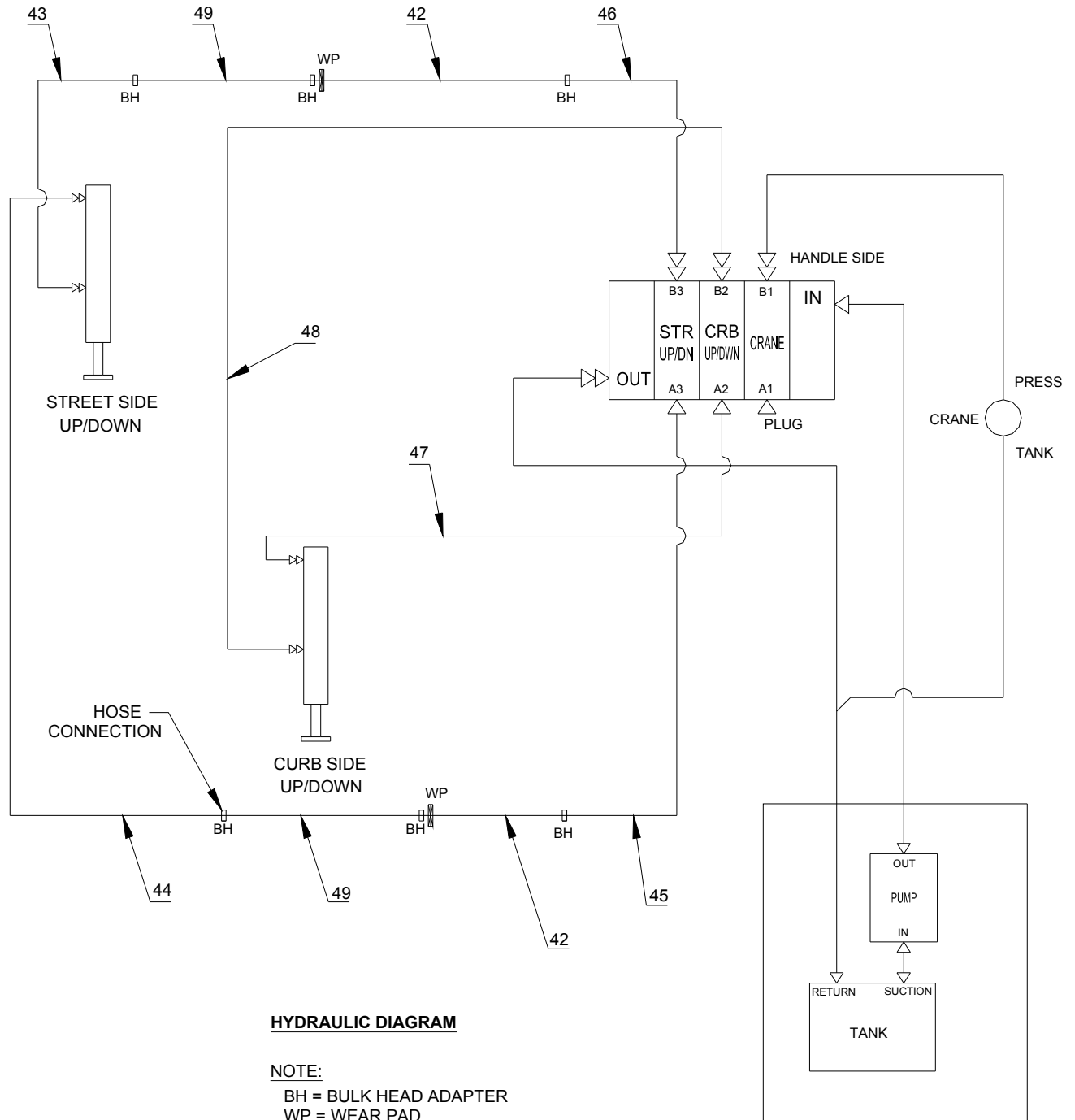
EXTENSION
 STROKE = 54.00in

UP/DOWN LEG
 STROKE = 27.00in

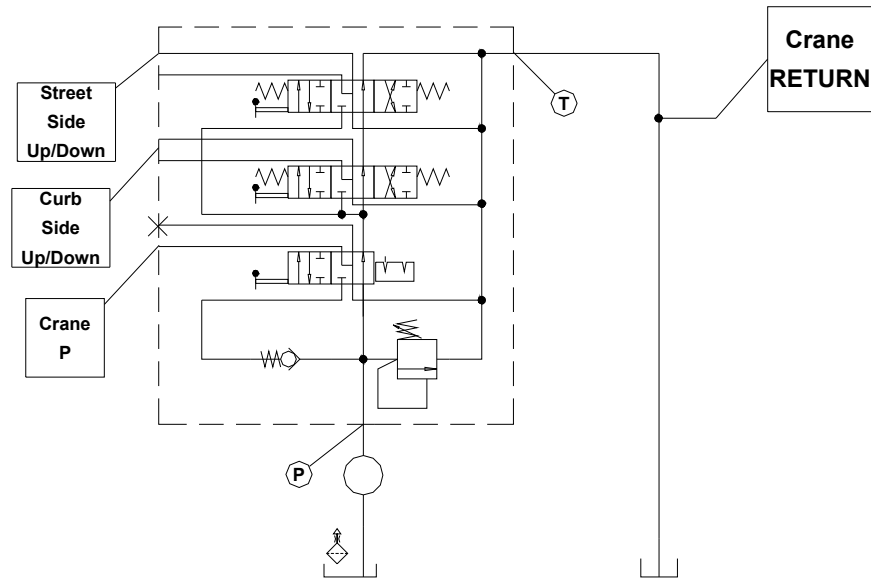
OUTRIGGER ASSY, MANUAL OUT HYD DOWN STREET SIDE – P/N: 738844000



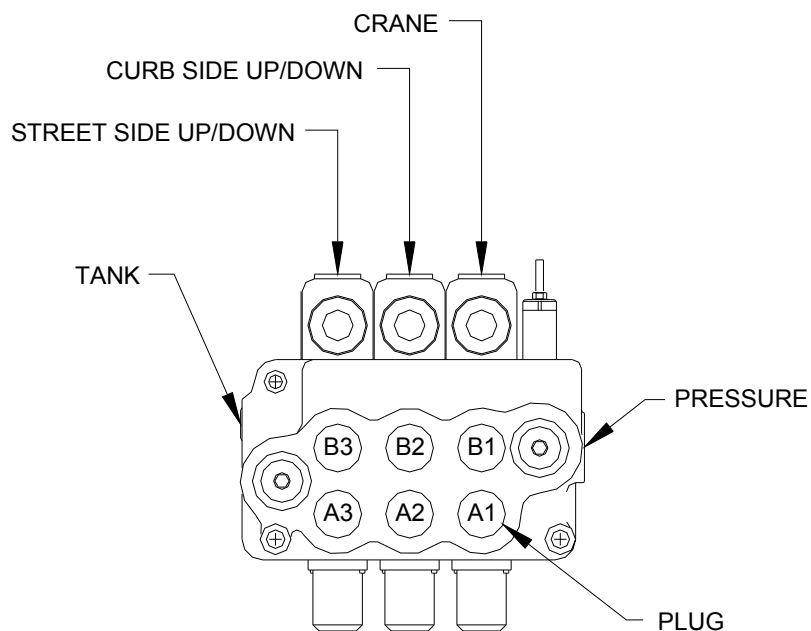
OUTRIGGER ASSY, MANUAL OUT HYD DOWN STREET SIDE – P/N: 738844000



OUTRIGGER ASSY, MANUAL OUT HYD DOWN STREET SIDE – P/N: 738844000



HYDRAULIC SCHEMATIC



DIRECTION CONTROL VALVE (REAR VIEW)

NOTE:

A-PORT BOTTOM

B-PORT HANDLE SIDE

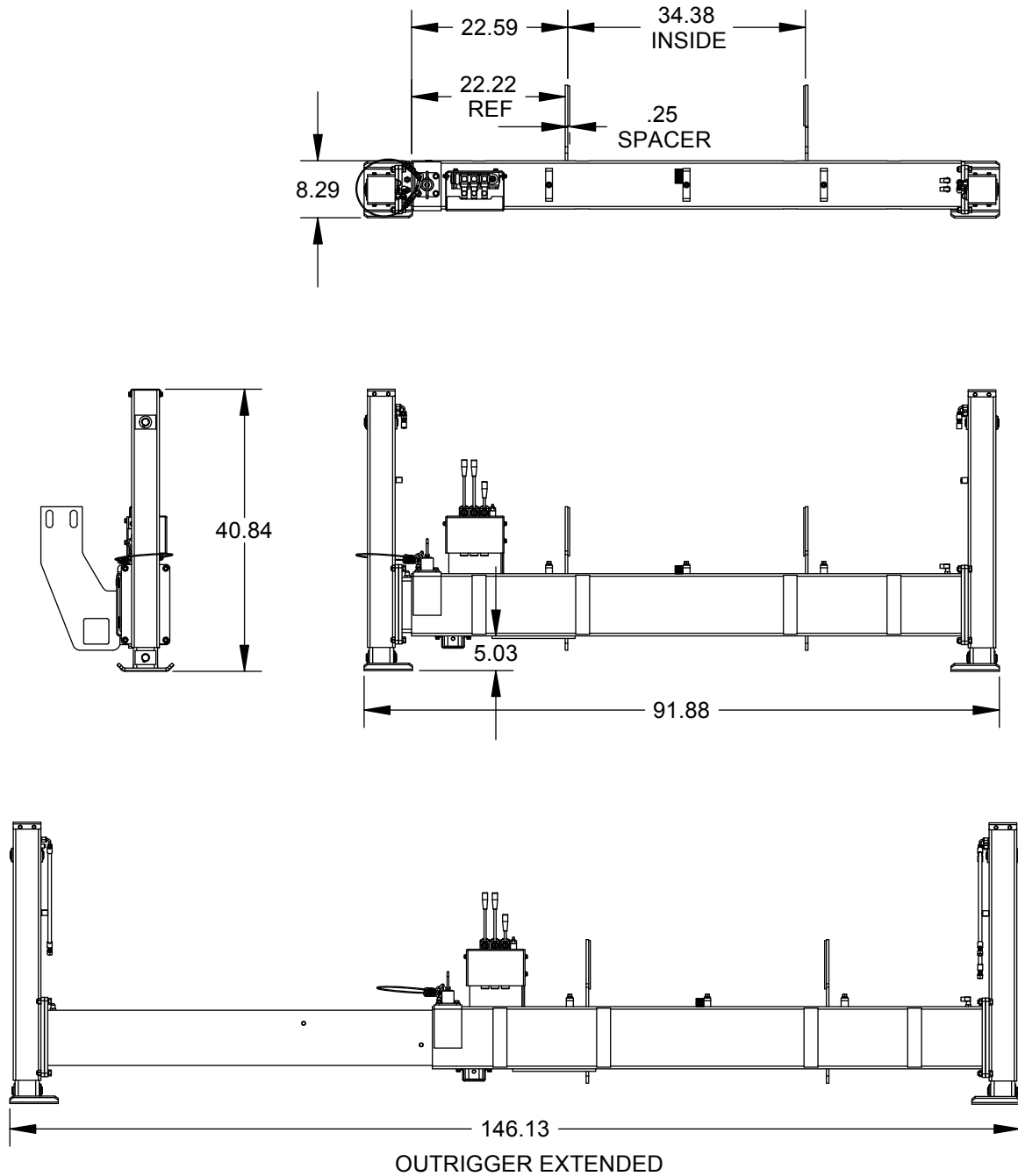
OUTRIGGER ASSY, MANUAL OUT HYD DOWN STREET SIDE – P/N: 738844000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738622001	TITAN 38 OUTRIGGER TUBE WELD SSC(MAN OUT HYD DN)
2	1	738645000	SHIP KIT TITAN 38 OUTRIGGER
3	1	738837000	TITAN 38 HYD LEG ASSY
4	1	738848001	TITAN 38 SLIDE ASSY SS (MAN OUT HYD DN)
5	1	738632000	COVER, DIRECTIONAL CTR VALVE
6	1	738630000	CONTOL VALVE SUB-ASSY, 3 SECTION
7	1	738689000	WEAR PAD 1.75 X 3.5 X 3/8
8	4	407277000	PAD BOOM 1.5 O.D.
9	1	460055000	WEAR PAD, TOP MID
10	1	372216000	COVER ROLLER
11	3	407216000	HOSE RETAINER, 4.75 WIDE
12	1	738682000	DOUBLER PULL PIN
13	1	738634000	DECAL LAYOUT MAN OUT HYD DN
14	1	738847001	KIT, HYD OUTRIGGER SSC (MAN OUT HYD DN)
15	1	760388000	PULL PIN WELD (REMOVABLE)
16	1	560186000	TUBING MTG ASSY (# 6)
17	1	715048000	EDGE TRIM 3/32
18	18	374086000	NYLON HOSE SLEEVE
19	2	005901000	SCREW HX HD 1/4-20UNC X 1/2 LG
20	3	008701000	SCW HX 3/8 UNC X 1 GR5
21	4	017701000	NUT HX 1/2-13UNC
22	5	020200000	WASHER SP LK 1/4
23	5	020400000	WASHER FL SAE 1/4
24	3	021100000	WASHER SP LK 3/8
25	7	021200000	WASHER FL 3/8
26	4	021500000	WASHER SP LK 1/2
27	1	239300000	ZERK, GREASE
28	1	240234000	BEARING, NEEDLE
29	3	330372000	NUT HX 3/8-16UNC
30	1	372218000	SCREW SET 1/2-13UNC X 3 LG
31	2	372219000	NUT, HX JAM 1/2-13UNC
32	4	738642000	SCREW HX HD 1/2-13UNC X 1 3/4 LG GR8
33	3	005401000	SCREW HX HD 1/4-20UNC X 5/8 LG CP
34	2	016500000	NUT HX 5/16-18UNC
35	2	020601000	WASHER SP LK 5/16
36	3	020901000	WASHER FL 5/16
37	3	811029000	SCREW HX HD 5/16-18UNC X 2 1/2 LG
*38	4	241170000	FITTING BULHD 6 SAE/6 JIC STRAIGHT
*39	4	200876000	FITTING 6 SAE/6 JIC STRAIGHT
*40	2	367136000	FITTING 90 6-SAE/6-JIC

OUTRIGGER ASSY, MANUAL OUT HYD DOWN STREET SIDE – P/N: 738844000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
*41	4	480024000	MOUNT PENDANT CABLE RETAINER
*42	2	738678000	TUBE ASSY -6 JICF X -6 TUBE
*43	1	812037023	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 23" LG
*44	1	812037025	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 25" LG
*45	1	812026072	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 72 LG
*46	1	812026073	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 73" LG
*47	1	812037094	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 94" LG
*48	1	812037096	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE x 96" LG
*49	2	812026134	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE X 134" LG
50	1	772067000	SLING, OUTRIGGER
**51	2	738669000	BAR RT HR, 1/4 X 3.00 X 5.75 LG
**52	2	738563001	TITAN 38 OUTRIGGER SUPPORT
**53	1	738646000	INSTALLATION DRAWING
*	THESE ITEMS ARE PART OF ITEM #14		
**	THESE ITEMS ARE PART OF ITEM #2		

OUTRIGGER ASSY, MANUAL OUT HYD DOWN STREET SIDE – P/N: 738844000

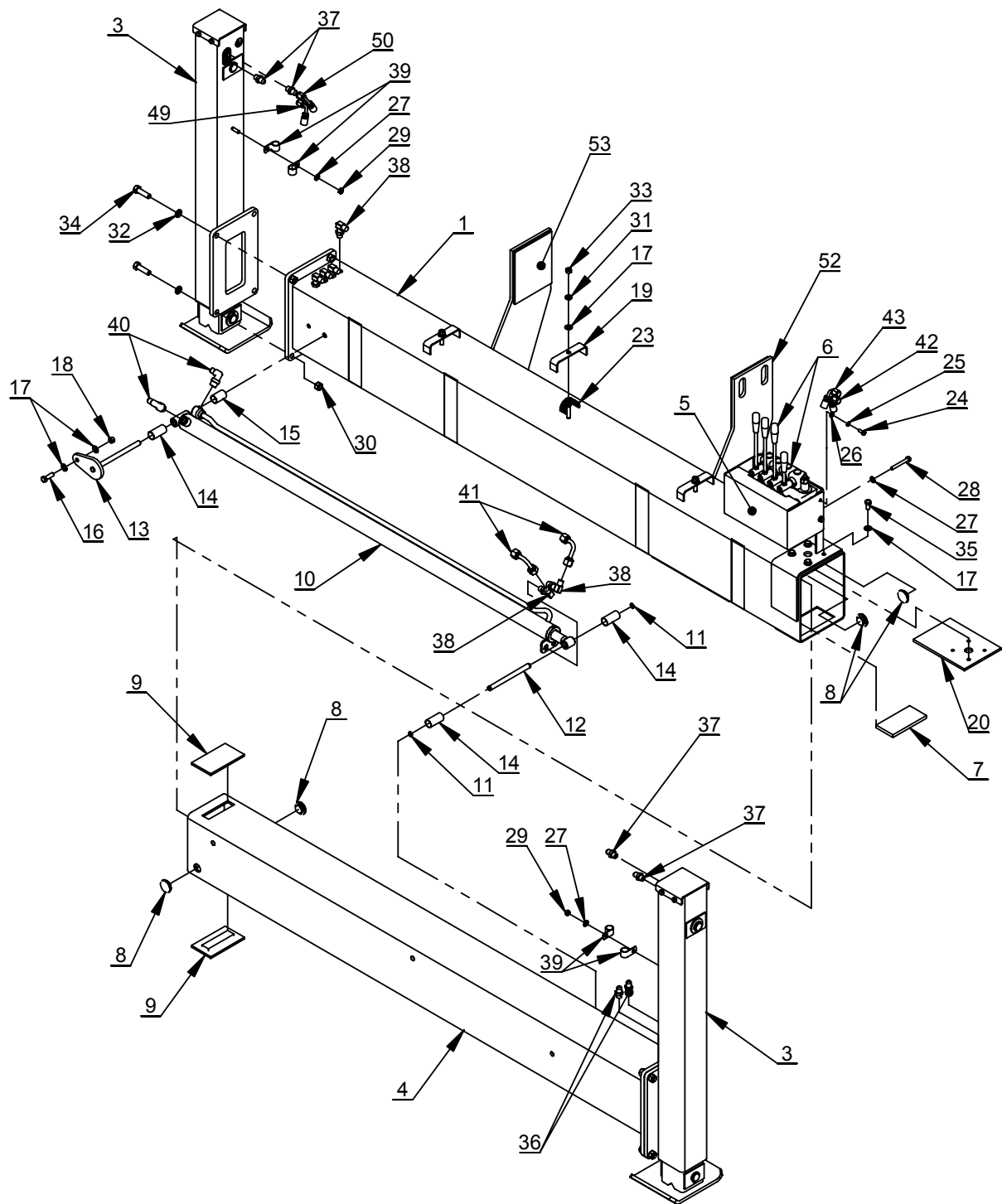


GENERAL DIMENSIONS

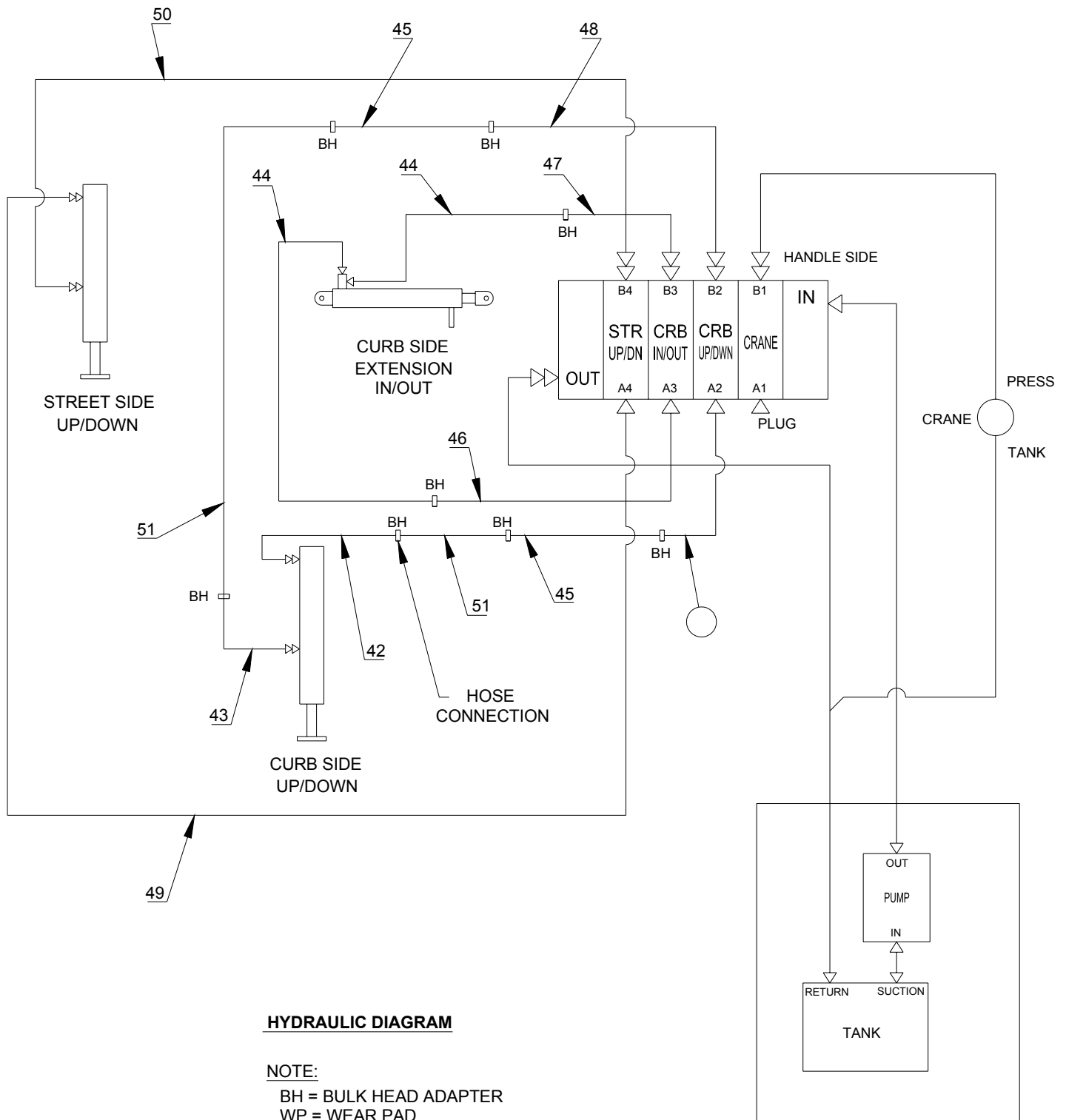
EXTENSION
STROKE = 54.00in

UP/DOWN LEG
STROKE = 27.00in

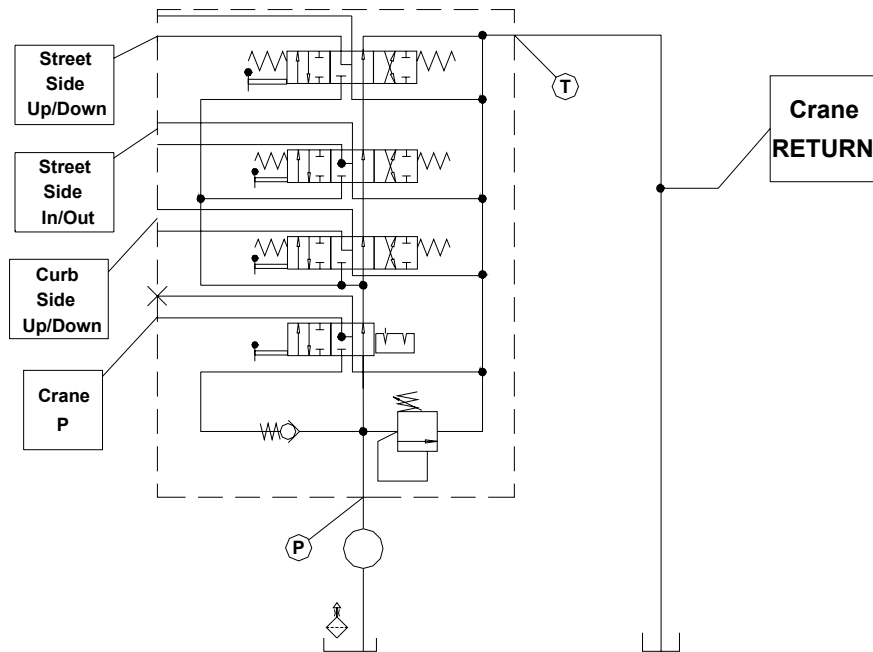
OUTRIGGER ASSY, FULLY HYDRAULIC **CURB SIDE – P/N: 738835000**



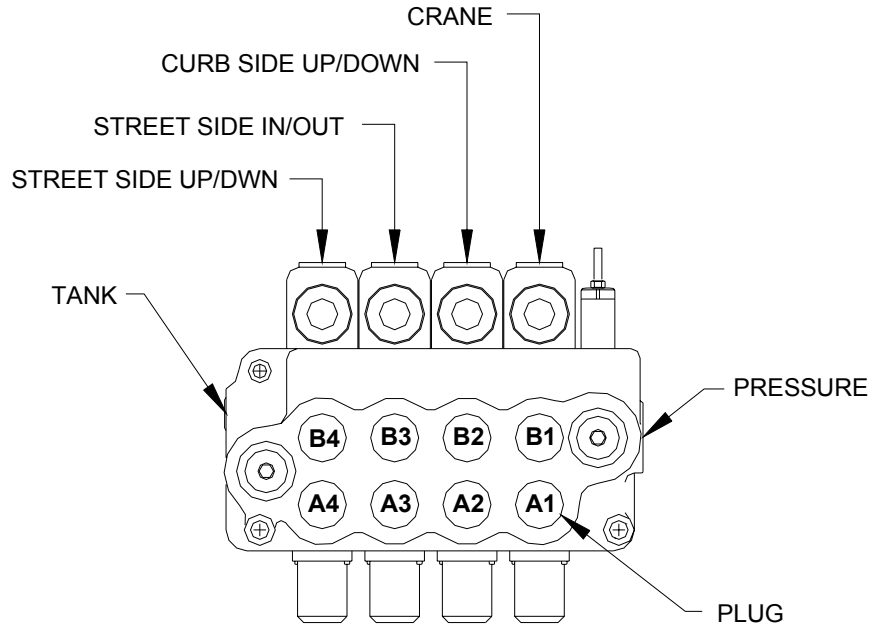
OUTRIGGER ASSY, FULLY HYDRAULIC **CURB SIDE – P/N: 738835000**



**OUTRIGGER ASSY, FULLY HYDRAULIC
CURB SIDE – P/N: 738835000**



HYDRAULIC SCHEMATIC



DIRECTION CONTROL VALVE (REAR VIEW)

NOTE:

A-PORT BOTTOM

B-PORT HANDLE SIDE

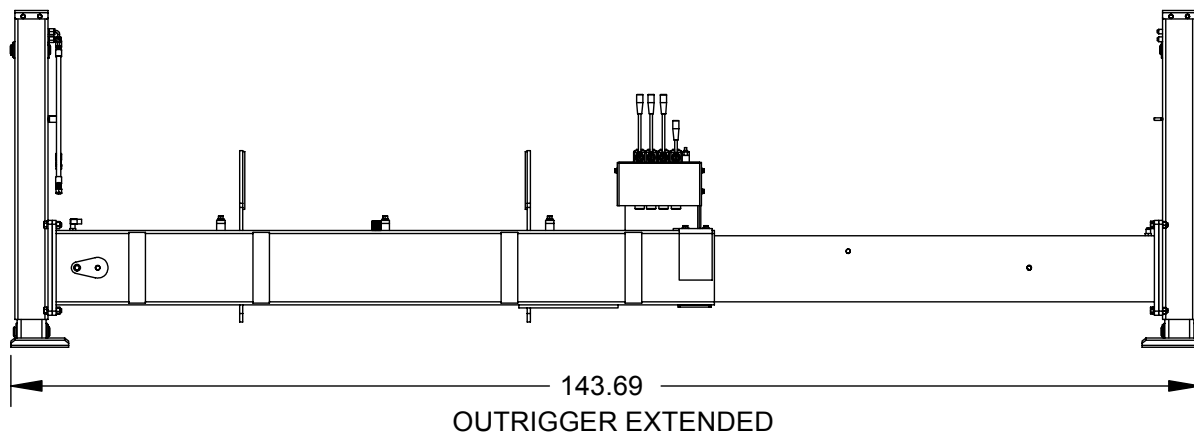
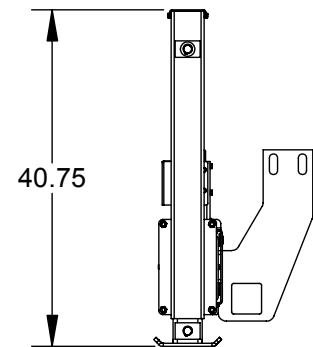
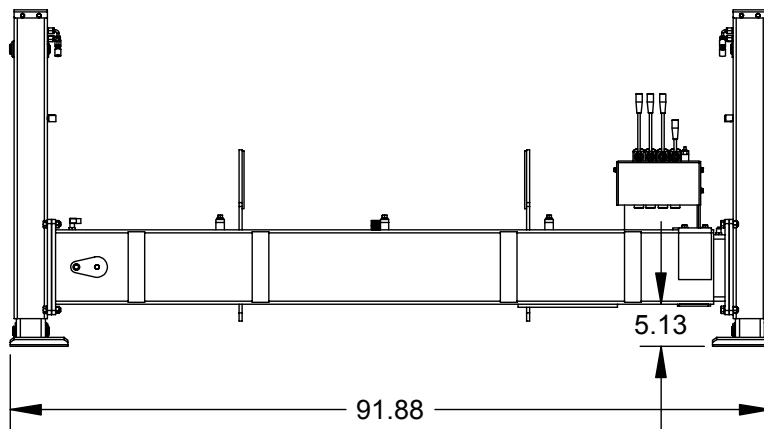
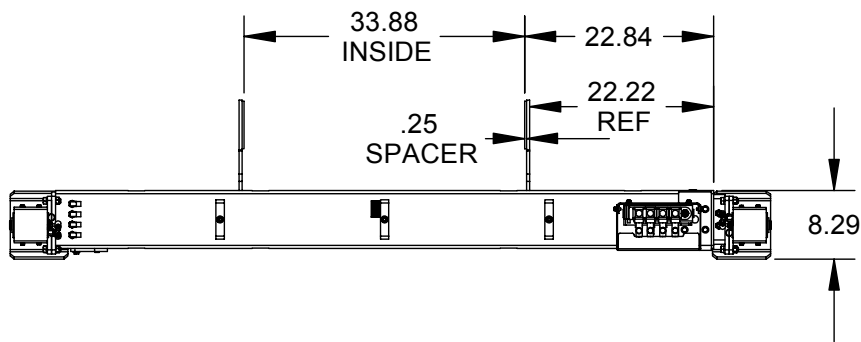
OUTRIGGER ASSY, FULLY HYDRAULIC CURB SIDE – P/N: 738835000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738637000	TITAN 38 OUTRIGGER TUBE WELD HYD
2	1	738645000	SHIP KIT TITAN 38 OUTRIGGER
3	1	738837000	TITAN 38 HYD LEG ASSY
4	1	738838000	TITAN 38 SLIDE ASSY CS HYD
5	1	560244000	COVER, DIRECTIONAL CTR VALVE
6	1	560145000	CONTROL VALVE SUB-ASSY, 4 SECTION
7	1	366353000	PAD WEAR 5.25 X 2.63 X .38
8	4	407277000	PAD BOOM 1.5 O.D.
9	2	460055000	WEAR PAD, TOP MID
10	1	738569000	CYL HYD IN/OUT
11	2	560148000	RING RETAINING 1/2 ID
12	1	560158000	PIN 1/2 DIA X 6.25 LG
13	1	560165000	PIN WDMT 1/2 OD x 7.38
14	3	560202000	SPACER, EXT CYL
15	1	560202001	SPACER, EXT CYL
16	1	008702000	SCREW HX HD 3/8-16UNC X 1 1/4 LG GR5
17	9	021200000	WASHER FL 3/8
18	1	017301000	NUT HX NYLK 3/8-16UNC CP
19	3	407216000	BOOM ASSEMBLY
20	1	738682000	DOUBLER PULL PIN
21	1	738644000	DECAL LAYOUT HYD
22	1	738840000	KIT, HYD OUTRIGGER (FULLY HYD)
23	18	374086000	NYLON HOSE SLEEVE
24	3	005401000	SCREW HX HD 1/4-20UNC X 5/8 LG CP
25	3	020200000	WASHER SP LK 1/4
26	3	020400000	WASHER FL SAE 1/4
27	5	020901000	WASHER FL 5/16
28	3	811029000	SCREW HX HD 5/16-18UNC X 2 1/2 LG
29	2	016500000	NUT HX 5/16-18UNC
30	4	017701000	NUT HX 1/2-13UNC
31	3	021100000	WASHER SP LK 3/8
32	4	021500000	WASHER SP LK 1/2
33	3	330372000	NUT HX 3/8-16UNC
34	4	738642000	SCREW HX HD 1/2-13UNC X 1 3/4 LG GR8
35	4	008400000	SCREW HX HD 3/8-16UNC X 3/4 LG GR 5
*36	2	241170000	FITTING BULHD 6 SAE/6 JIC STRAIGHT
*37	4	200876000	FITTING 6 SAE/6 JIC STRAIGHT
*38	6	367136000	FITTING 90 6-SAE/6-JIC
39	4	480024000	MOUNT PENDANT CABLE RETAINER
*40	2	560203000	FITTING 90 6-SAE/6-JIC RESTRICTED

OUTRIGGER ASSY, FULLY HYDRAULIC CURB SIDE – P/N: 738835000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
*41	2	560434000	ADAPTER, BENT STEM 90 DEG
*42	1	812037023	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 x 23"LG
*43	1	812037025	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 x 25"LG
*44	2	812026020	HOSE ASSY -6 JICF/-6 JICF X -4 HOSEx 20"LG
*45	2	812026066	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 66" LG
*46	1	812026071	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 71" LG
*47	2	812026073	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 73" LG
*48	1	812026074	HOSE ASSY -6 JICF/-6JICF x -4 HOSE x 74" LG
*49	1	812037094	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 x 94"LG
*50	1	812037098	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 x 98"LG
*51	2	812026123	HOSE ASSY -6 JICF/-6 JICF X -4 x 123" LG
**52	2	738563001	TITAN 38 BUMPER SUPPORT
**53	2	738669000	BAR RT HR 1/4 x 3.00 x 5.75 LG
**54	1	738646000	INSTALLATION DRAWING
*	THESE ITEMS ARE A PART OF ITEM #22		
**	THESE ITEMS ARE A PART OF ITEM #2		

OUTRIGGER ASSY, FULLY HYDRAULIC **CURB SIDE – P/N: 738835000**

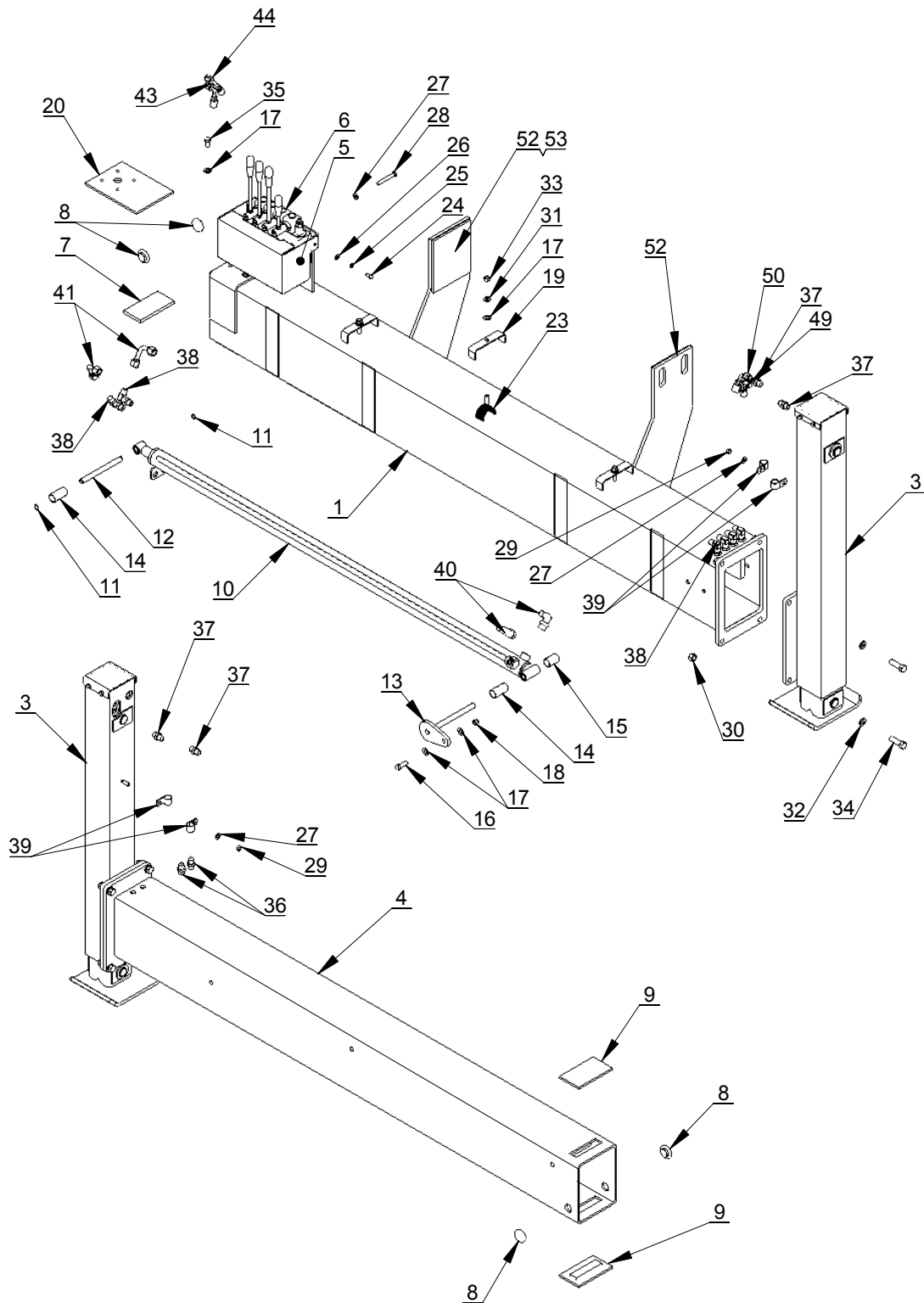


GENERAL DIMENSIONS

EXTENSION
STROKE = 54.00in

UP/DOWN LEG
STROKE = 27.00in

OUTRIGGER ASSY, FULLY HYDRAULIC STREET SIDE – P/N: 738836000



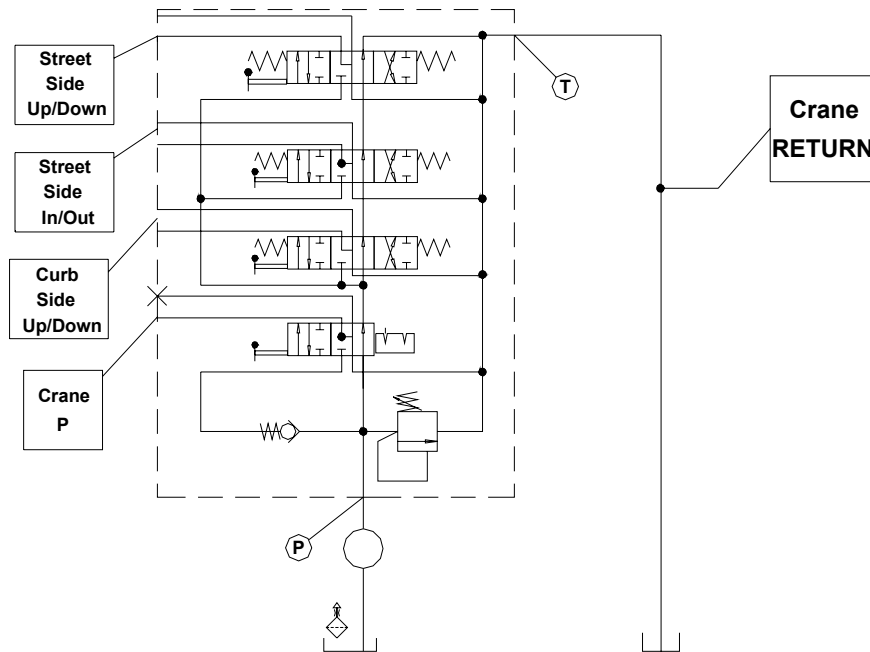
**OUTRIGGER ASSY, FULLY HYDRAULIC
STREET SIDE – P/N: 738836000**



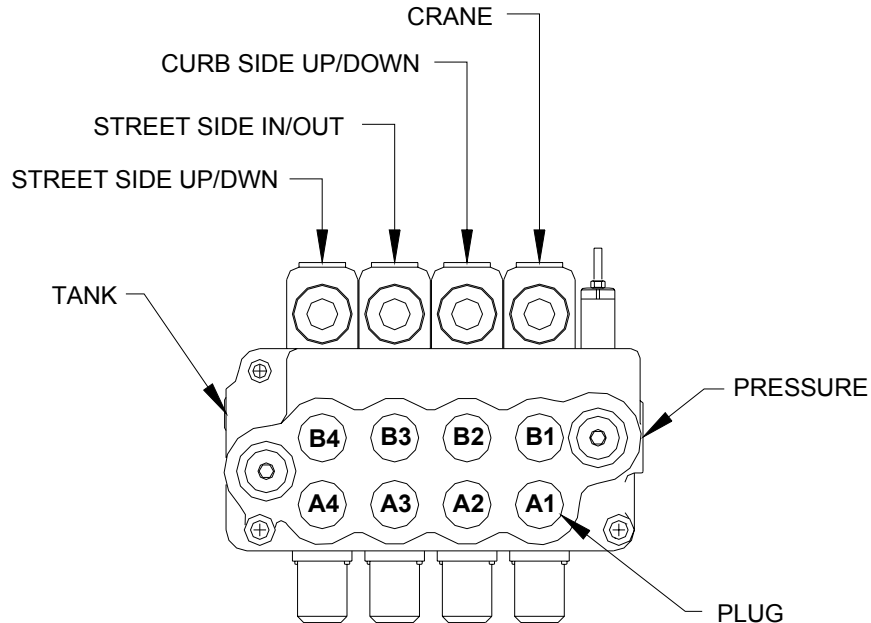
NOTE:

BH = BULK HEAD ADAPTER
WP = WEAR PAD

OUTRIGGER ASSY, FULLY HYDRAULIC **STREET SIDE – P/N: 738836000**



HYDRAULIC SCHEMATIC



DIRECTION CONTROL VALVE (REAR VIEW)

NOTE:

A-PORT BOTTOM
B-PORT HANDLE SIDE

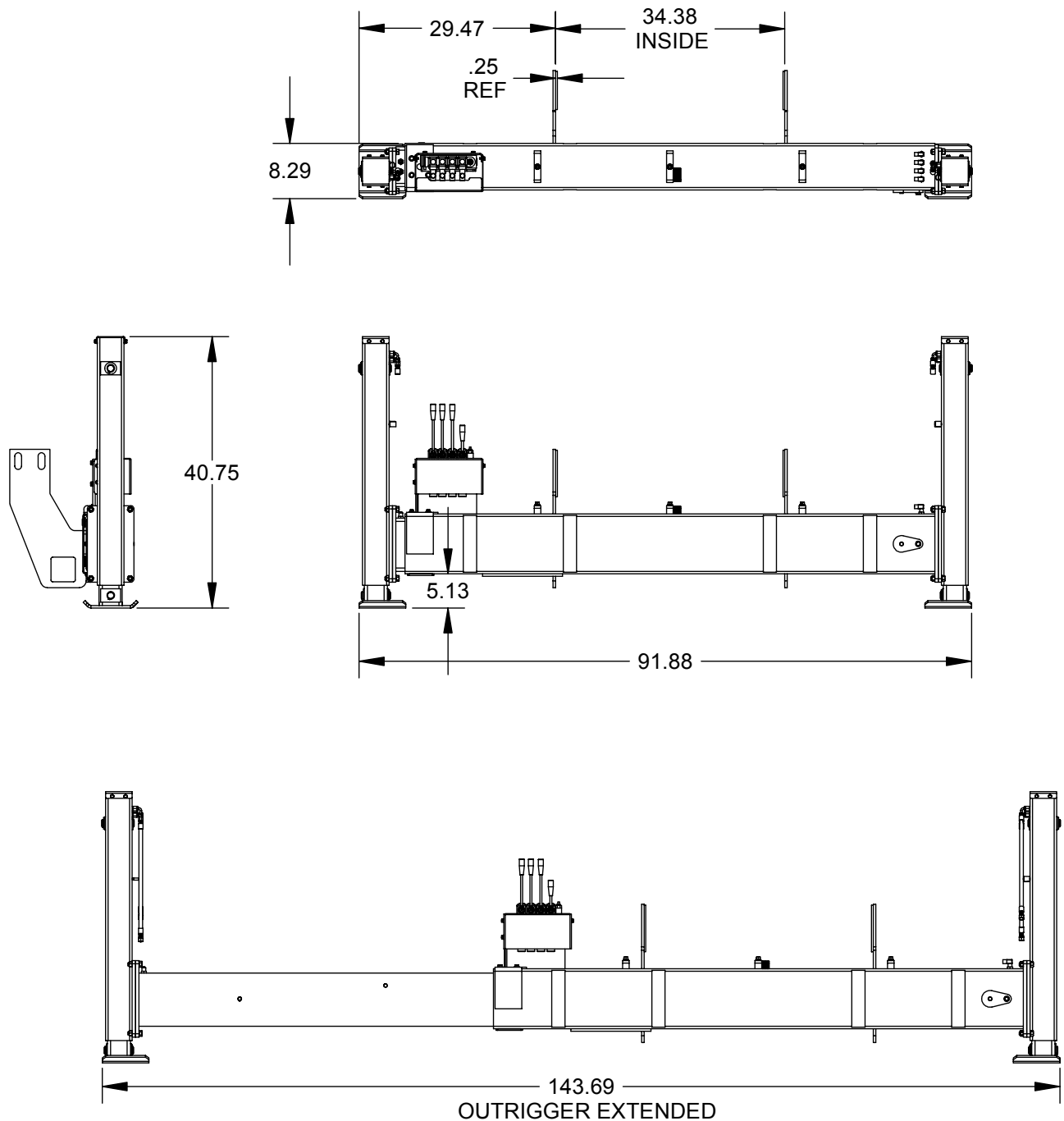
OUTRIGGER ASSY, FULLY HYDRAULIC STREET SIDE – P/N: 738836000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738637001	TITAN 38 OUTRIGGER TUBE WELD SSC
2	1	738645000	SHIP KIT TITAN 38 OUTRIGGER
3	1	738837000	TITAN 38 HYD LEG ASSY
4	1	738838001	TITAN 38 SLIDE ASSY SS (HYD)
5	1	560244001	COVER, DIRECT CTR VALVE S/S
6	1	560145000	CONTROL VALVE SUB-ASSY, 4 SECTION
7	1	366353000	PAD WEAR 5.25 X 2.63 X .38
8	4	407277000	PAD BOOM 1.5 O.D.
9	2	460055000	WEAR PAD, TOP MID
10	1	738569000	CYL HYD IN/OUT
11	2	560148000	RING RETAINING 1/2 ID
12	1	560158000	PIN 1/2 DIA X 6.25 LG
13	1	560165000	PIN WDMT 1/2 OD x 7.38
14	2	560202000	SPACER, EXT CYL
15	1	560202001	SPACER, EXT CYL
16	1	008702000	SCREW HX HD 3/8-16UNC X 1 1/4 LG GR5
17	9	021200000	WASHER FL 3/8
18	1	017301000	NUT HX NYLK 3/8-16UNC CP
19	3	407216000	BOOM ASSEMBLY
20	1	738682000	DOUBLER PULL PIN
21	1	738644001	DECAL LAYOUT SSC (HYD)
22	1	738840001	KIT, HYD OUTRIGGER SSC (FULLY HYD)
23	18	374086000	NYLON HOSE SLEEVE
24	3	005401000	SCREW HX HD 1/4-20UNC X 5/8 LG CP
25	3	020200000	WASHER SP LK 1/4
26	3	020400000	WASHER FL SAE 1/4
27	5	020901000	WASHER FL 5/16
28	3	811029000	SCREW HX HD 5/16-18UNC X 2 1/2 LG
29	2	016500000	NUT HX 5/16-18UNC
30	4	017701000	NUT HX 1/2-13UNC
31	3	021100000	WASHER SP LK 3/8
32	4	021500000	WASHER SP LK 1/2
33	3	330372000	NUT HX 3/8-16UNC
34	4	738642000	SCREW HX HD 1/2-13UNC X 1 3/4 LG GR8
35	4	008400000	SCREW HX HD 3/8-16UNC X 3/4 LG GR 5
*36	2	241170000	FITTING BULHD 6 SAE/6 JIC STRAIGHT
*37	4	200876000	FITTING 6 SAE/6 JIC STRAIGHT
*38	6	367136000	FITTING 90 6-SAE/6-JIC
39	4	480024000	MOUNT PENDANT CABLE RETAINER
*40	2	560203000	FITTING 90 6-SAE/6-JIC RESTRICTED

OUTRIGGER ASSY, FULLY HYDRAULIC STREET SIDE – P/N: 738836000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
*41	2	560434000	ADAPTER, BENT STEM 90 DEG
*42	2	812026020	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE
*43	1	812037023	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE
*44	1	812037025	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE
*45	2	812026066	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 66"
*46	1	812026073	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE x 73"
*47	2	812026075	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE X 75"
*48	1	812026076	HOSE ASSY -6 JICF/-6 JICF X -4 HOSE X 76"
*49	1	812037096	HOSE ASSY, -6 JICF/ -6 90 DEG ELL, -4 HOSE
*50	1	812037100	HOSE ASSY, -6 JICF/-6 90 DEG ELL, -4 HOSE
**51	2	738563001	TITAN 38 BUMPER SUPPORT
**52	2	738669000	BAR RT HR 1/4 x 3.00 x 5.75 LG
**53	1	738646000	INSTALLATION DRAWING
*	THESE ITEMS ARE A PART OF ITEM #22		
**	THESE ITEMS ARE A PART OF ITEM #22		

OUTRIGGER ASSY, FULLY HYDRAULIC STREET SIDE – P/N: 738836000



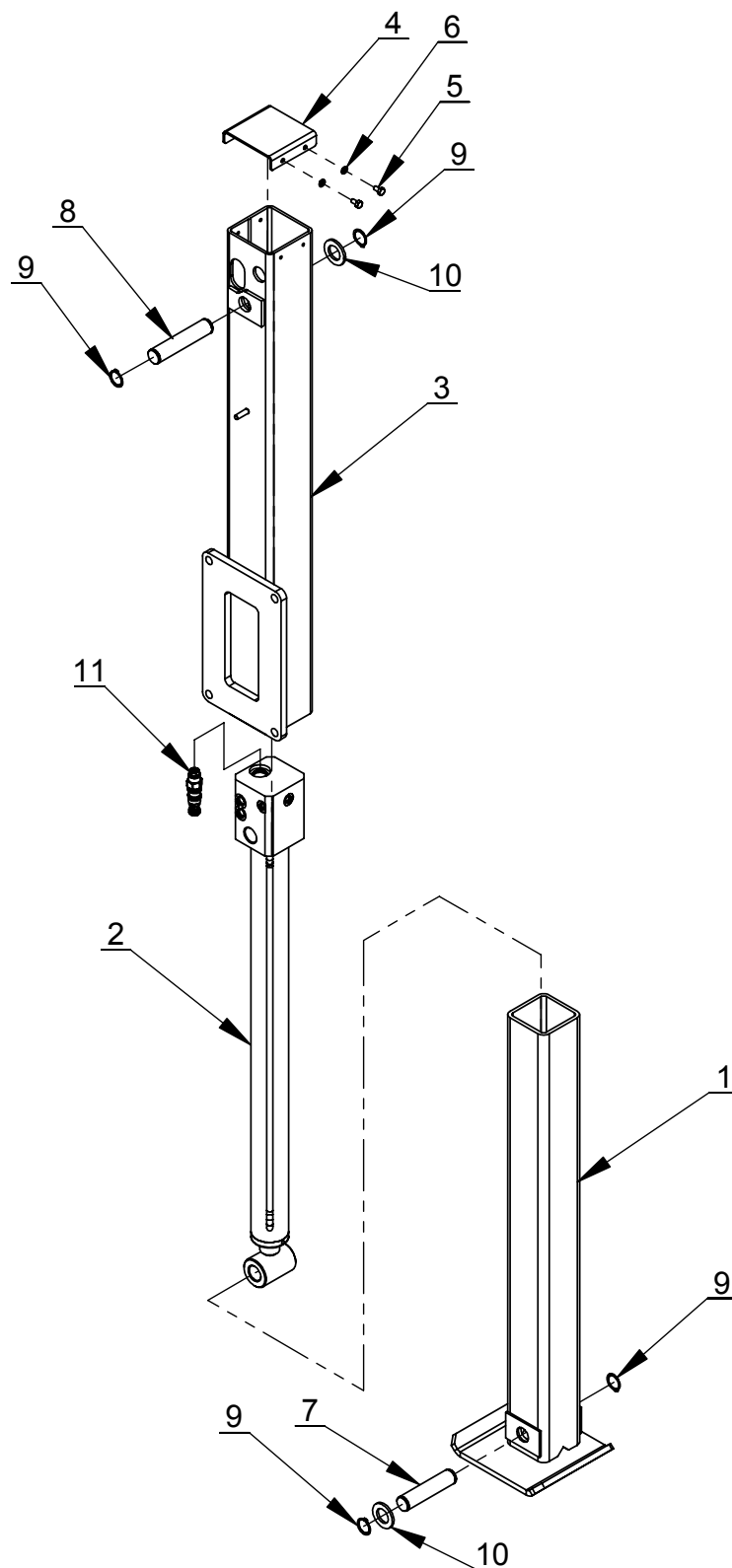
GENERAL DIMENSIONS

EXTENSION
STROKE = 54.00in

UP/DOWN LEG
STROKE = 27.00in

OUTRIGGER HYDRAULIC LEG ASSEMBLY

TITAN SERIES – P/N: 738837000



OUTRIGGER HYDRAULIC LEG ASSEMBLY

TITAN SERIES – P/N: 738837000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738880000	TUBE INNER (WELD) SS/CS
2	1	738834000	CYL HYD OUTRIGGER UP/DOWN
3	1	738839000	TITAN 38 HYD LEG OUTER TUBE WELD
4	1	725945000	CAP TUBE TOP
5	4	005901000	SCREW HX HD 1/4-20UNC X 1/2 LG
6	4	020200000	WASHER SP LK 1/4
7	1	738732000	PIN 1 DIA X 4.063 LG
8	1	738731000	PIN 1 DIA X 4.563 LG
9	4	738734000	RING RETAINING 5100-100
10	2	560562000	WASHER, FL 1.0312ID x 1.75OD x .156 THICK ZINC
*11	1	480188000	COUNTERBALANCE VALVE
*	ITEM PART OF ITEM # 2		

OUTRIGGER HYDRAULIC RELIEF VALVE SETTING INSTRUCTIONS - TITAN SERIES

Hydraulic powered outrigger control valves provided by Auto Crane

Auto Crane hydraulic powered outriggers utilize a control valve which contain an integral hydraulic relief valve that is preset at the factory. This preset is NOT the final setting and must be adjusted to account for hydraulic system backpressure once the installation is complete. The adjustment is straight forward and requires basic hand tools, thermometer or means to measure hydraulic oil temperature, and a hydraulic pressure gauge with a minimum rating of 5,000 psi and hydraulic fittings necessary to install the gauge in-line with the incoming pressure line to the outrigger control valve body.

Follow the procedure below to make the final adjustments to this relief valve.

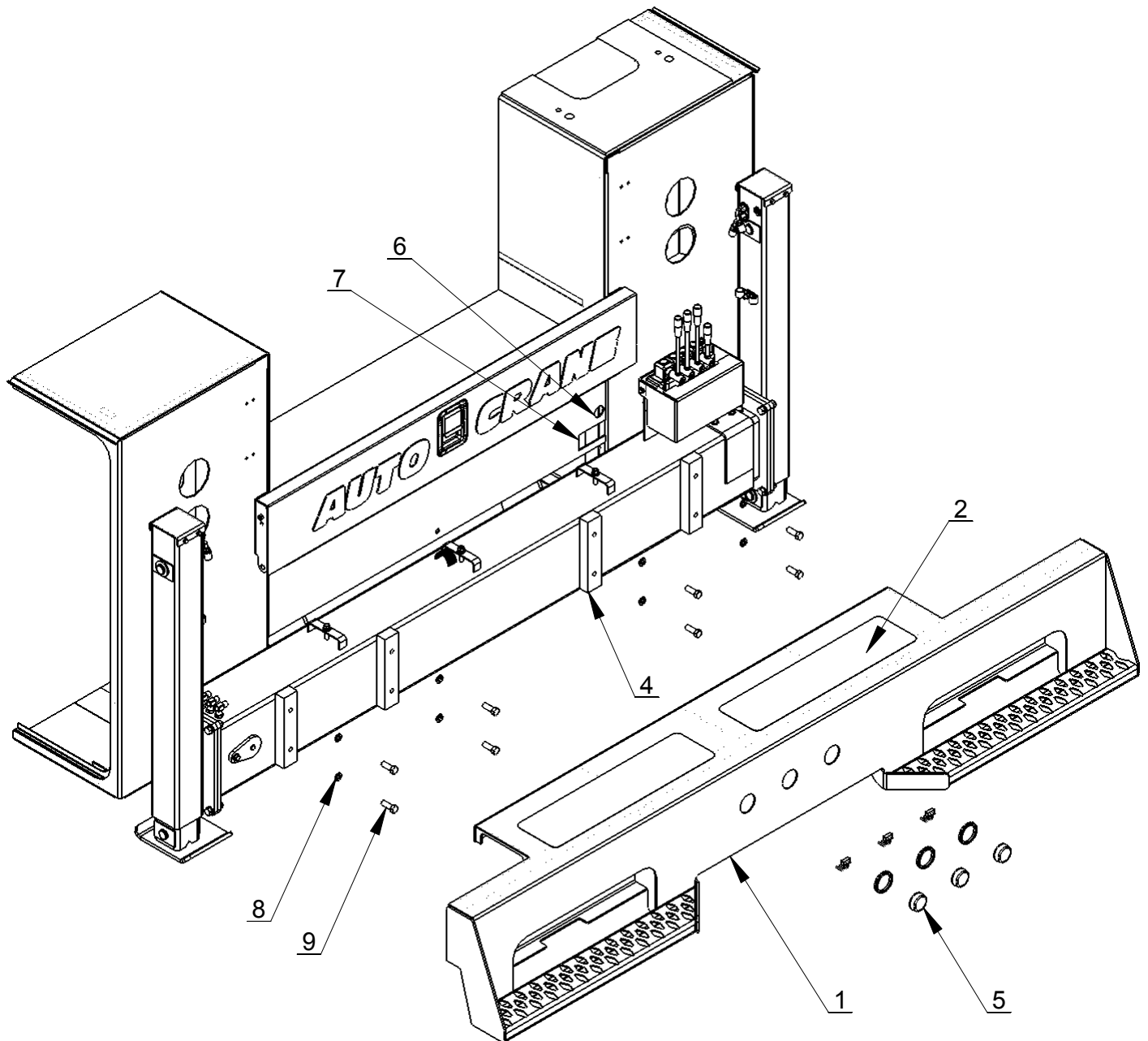
1. The outrigger hydraulic relief valve contains should be adjusted 200 psi above the crane hydraulic relief valve. Please consult the appropriate owner's manual for this setting or contact the crane manufacturer for this value.

WARNING!

Under no circumstances should this relief valve setting exceed any of the hydraulic system components ratings or limitations as component damage or personal injury may result.

2. Install the hydraulic pressure gauge in-line with the incoming pressure line to the outrigger control valve body.
3. With all personnel clear of the vehicle, start the engine and engage the vehicle PTO. Let the hydraulic oil warm until it reaches 100F.
4. While watching the hydraulic pressure gauge, activate a hydraulic outrigger function to deadhead the hydraulic system. Read the gauge value quickly and do not hold the function in the deadhead position.
5. Using the hand tools, back off the lock nut on the hydraulic relief valve and make small rotation adjustments (1/2 turn) to the relief valve stem.
6. Repeat the Step 4 to check if this adjustment meets the system requirements. If not, then repeat Step 5 and Step 4 until correct.
7. Tighten the lock nut on the hydraulic relief valve.
8. Remove the hydraulic pressure gauge and fittings and re-attach the pressure supply line to the hydraulic valve body.

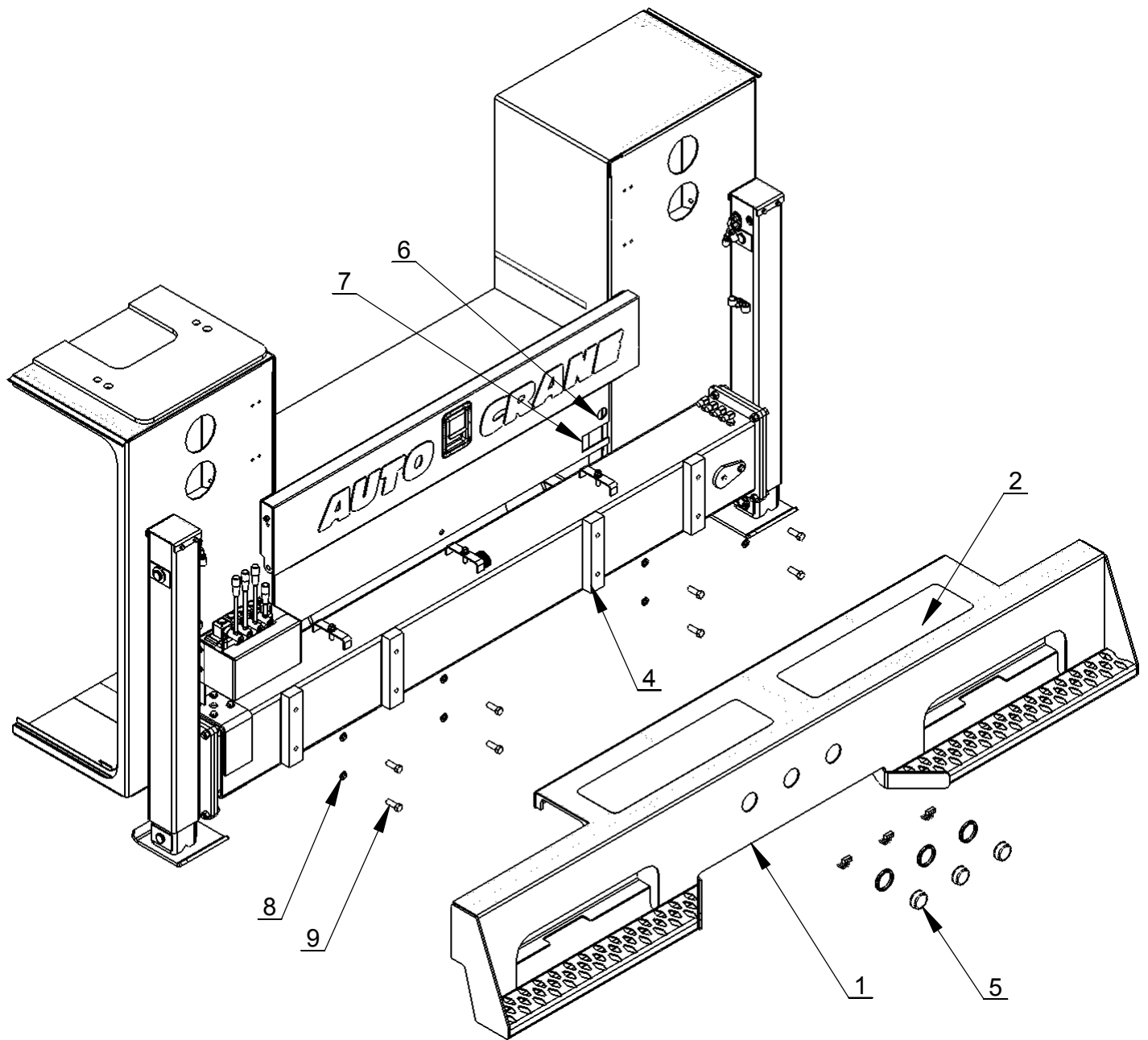
BUMPER ASSEMBLY 12", CURB SIDE
TITAN 38 – P/N: 738750000



***BUMPER ASSEMBLY 12", CURB SIDE
TITAN 38 – P/N: 738750000***

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738760000	BUMPER WELD 12" RECEIVER, TITAN 38 CSC
2	2	766141000	DECAL, SAFETY SURFACE
3	1	738662000	SHIP KIT BUMPER
*4	4	750913000	BUMPER ADAPTER
*5	3	560105000	LIGHT MARKER LED 2"
*6	1	750282000	GROMMET 1 3/8 OD
*7	12"	752269000	TRIM EDGE
*8	8	021500000	WASHER SP LK 1/2
*9	8	010201000	SCREW HX HD 1/2-13UNC x 1 1/2 LG
*	THESE ITEMS ARE A PART OF ITEM #3		

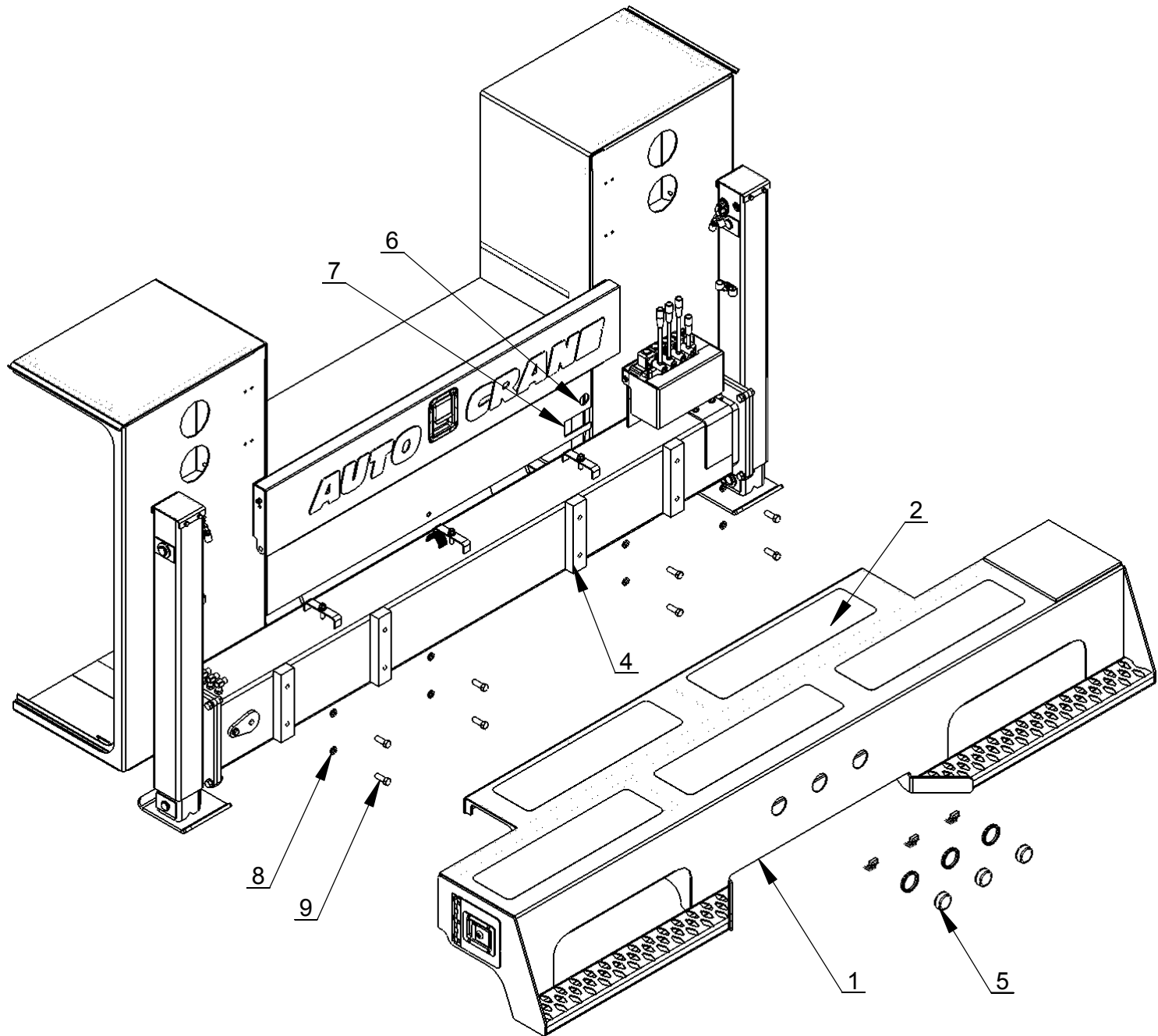
BUMPER ASSEMBLY 12" STREET SIDE
TITAN 38 – P/N: 738751000



***BUMPER ASSEMBLY 12" STREET SIDE
TITAN 38 – P/N: 738751000***

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738764000	BUMPER WELD 12" RECEIVER, TITAN 38 SSC
2	2	766141000	DECAL, SAFETY SURFACE
3	1	738662000	SHIP KIT BUMPER
*4	4	750913000	BUMPER ADAPTER
*5	3	560105000	LIGHT MARKER LED 2"
*6	1	750282000	GROMMET 1 3/8 OD
*7	12"	752269000	TRIM EDGE
*8	8	021500000	WASHER SP LK 1/2
*9	8	010201000	SCREW HX HD 1/2-13UNC x 1 1/2 LG
*	THESE ITEMS ARE A PART OF ITEM # 3		

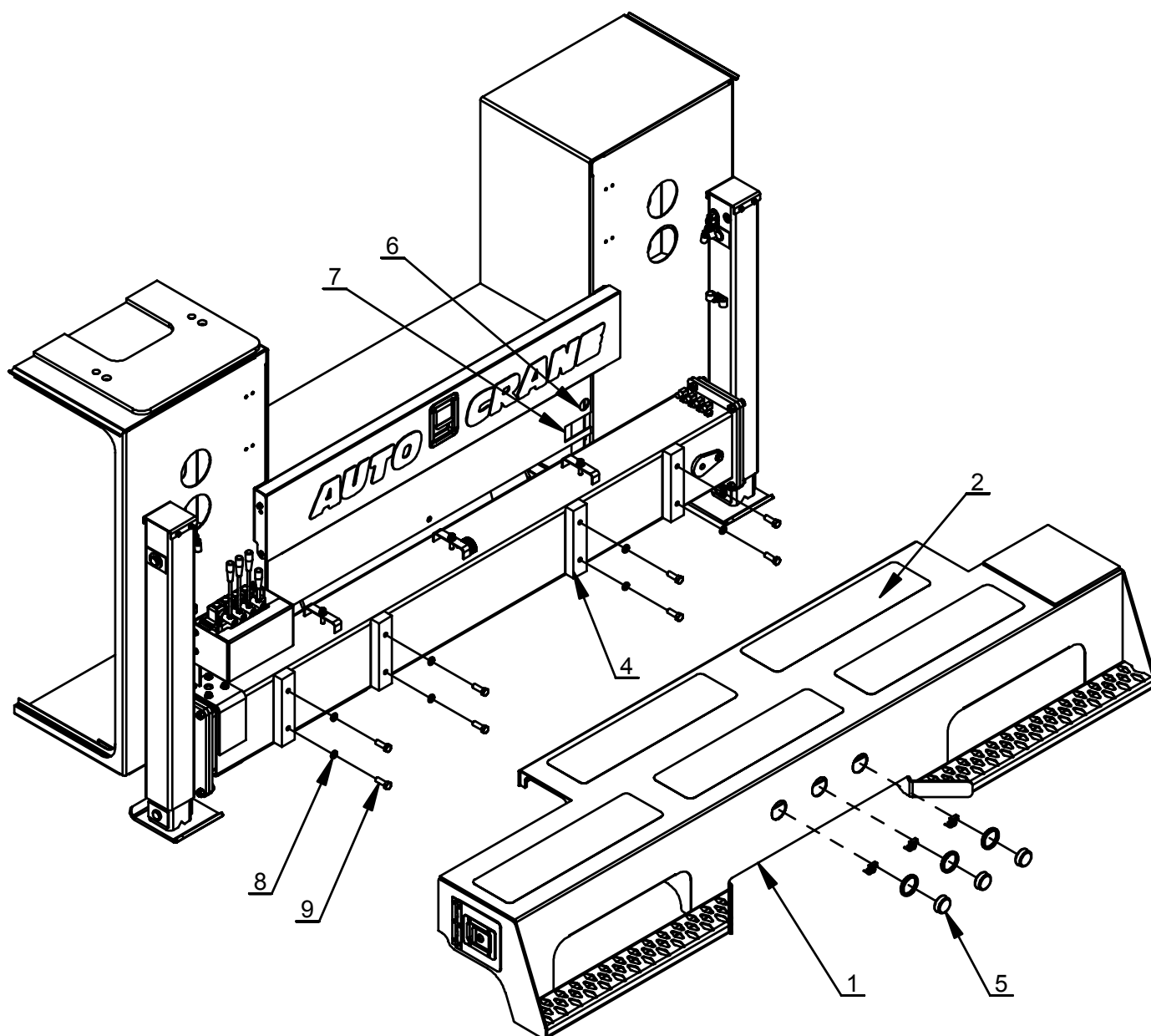
BUMPER ASSEMBLY 20", CURB SIDE
TITAN 38 – P/N: 738752000



***BUMPER ASSEMBLY 20", CURB SIDE
TITAN 38 – P/N: 738752000***

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738754000	BUMPER WELD 20" RECEIVER, TITAN 38 CSC
2	2	766141000	DECAL, SAFETY SURFACE
3	1	738662000	SHIP KIT BUMPER
*4	4	750913000	BUMPER ADAPTER
*5	3	560105000	LIGHT MARKER LED 2"
*6	1	750282000	GROMMET 1 3/8 OD
*7	12"	752269000	TRIM EDGE
*8	8	021500000	WASHER SP LK 1/2
*9	8	010201000	SCREW HX HD 1/2-13UNC x 1 1/2 LG
*	THESE ITEMS ARE A PART OF ITEM #3		

BUMPER ASSEMBLY 20", STREET SIDE
TITAN 38 – P/N: 738753000

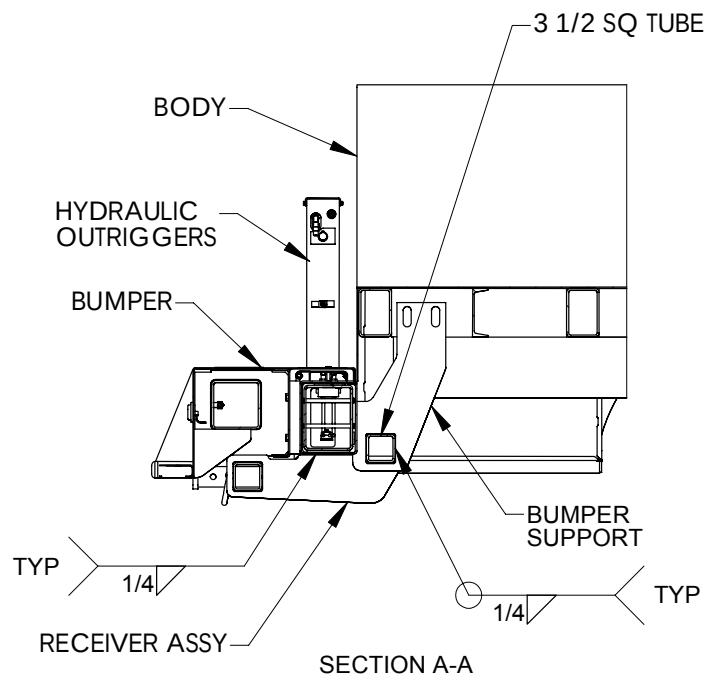
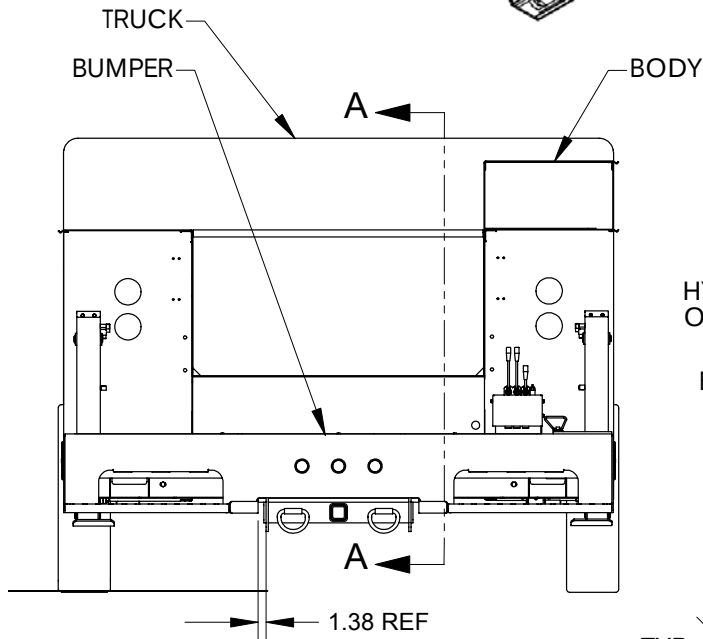
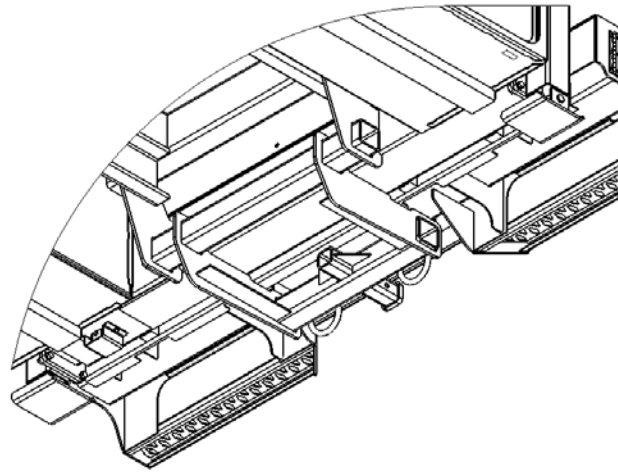


***BUMPER ASSEMBLY 20", STREET SIDE
TITAN 38 – P/N: 738753000***

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738758000	BUMPER WELD 20" RECEIVER, TITAN 38 SSC
2	2	766141000	DECAL, SAFETY SURFACE
3	1	738662000	SHIP KIT BUMPER
*4	4	750913000	BUMPER ADAPTER
*5	3	560105000	LIGHT MARKER LED 2"
*6	1	750282000	GROMMET 1 3/8 OD
*7	12"	752269000	TRIM EDGE
*8	8	021500000	WASHER SP LK 1/2
*9	8	010201000	SCREW HX HD 1/2-13UNC x 1 1/2 LG
*	THESE ITEMS ARE A PART OF ITEM #3		

NOTES

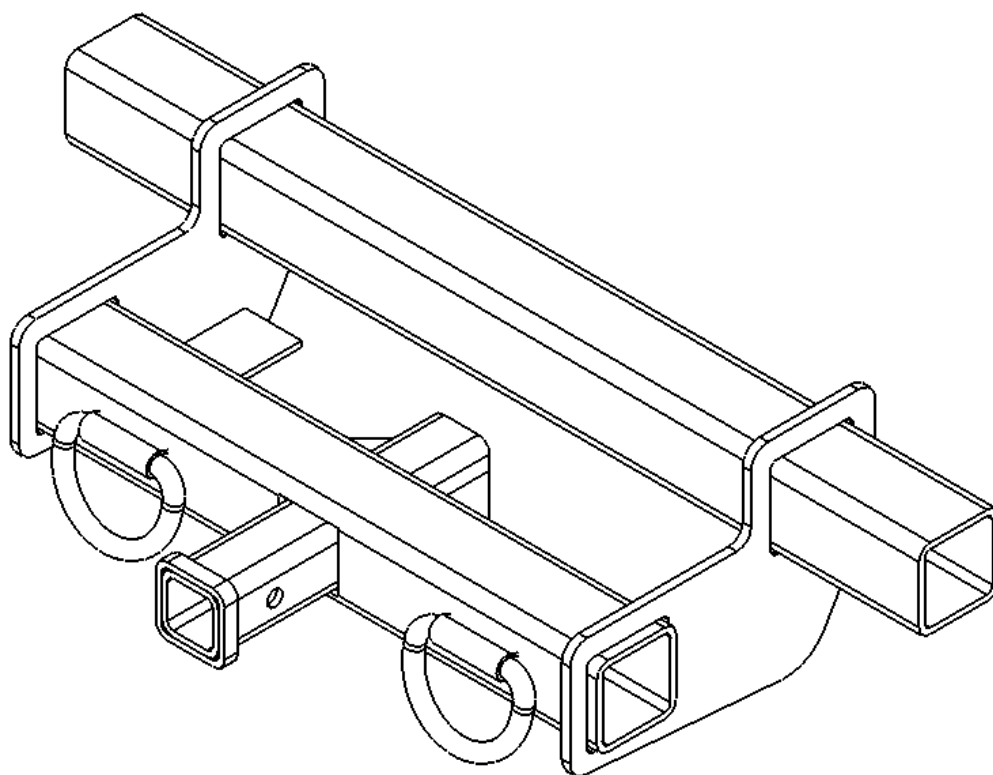
RECEIVER HITCH INSTALLATION TITAN SERIES



NOTE:

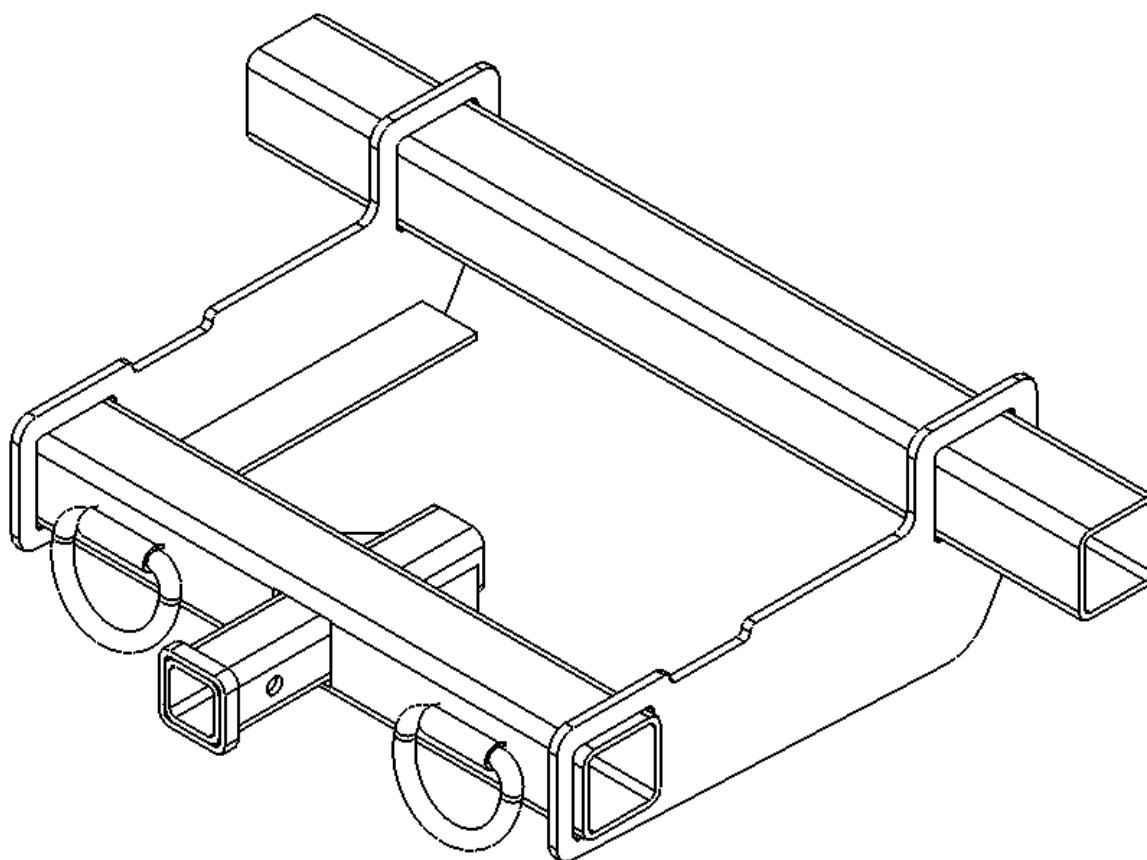
1. INSERT THE END OF THE 3 1/2" TUBE OF THE RECEIVER ASSY IN THE HOLE OF THE BUMPER SUPPORT.
2. CONTINUE TO SLIDE RECEIVER ASSY OVER AND INSERT THE OTHER END OF THE TUBE IN THE OTHER BUMPER SUPPORT.
3. LOCATE THE RECEIVER ASSY AS SHOWN AND WELD INTO PLACE.
4. ALSO WELD THE RECEIVER ASSY TO THE BOTTOM OF THE OUTRIGGER TUBE AS SHOWN.

RECEIVER HITCH
TITAN 38 – P/N: 738860000



THIS HITCH IS FOR USE WITH A 12" BUMPER.

RECEIVER HITCH
TITAN 38 – P/N: 738850000



THIS HITCH IS FOR USE WITH A 20" BUMPER.

FENDER-ET

TITAN SERIES – P/N: 738597001

INSTALLING

WIPE MOUNTING SURFACES WITH CLEAN CLOTH TO REMOVE ANY DIRT OR OILS.
(USE RUBBING ALCOHOL IF NECESSARY)

1. LOCATE FENDERETTE TO SIDEPACK, ALIGNING THE BOTTOM EDGES AND CENTERING IT ON THE FENDERWELL OPENING.
2. DRAW LINES ON FENDER WITH OIL PENCIL OR OTHER ERASABLE MARKER TO ASSIST WITH ALIGNMENT WHEN ADHESIVE IS APPLIED.
3. APPLY ADHESIVE TO FENDERETTE FLANGE PER INSTRUCTIONS ON CARTRIDGE. 1/8" BEAD IN CENTER OF FLANGE IS RECOMMENDED. THE NOZZLE DOES NOT NEED TO BE CUT TO PROVIDE 1/8" BEAD.
4. USE LINES FROM STEP #3 TO LOCATE FENDERETTE TO SIDEPACK, ALIGNING THE BOTTOM EDGES AND CENTERING IT ON THE FENDERWELL OPENING AS BEFORE.
5. USING WIDE SURFACE AREA CLAMPS, CLAMP FENDERETTE INTO PLACE TO INSURE FULL CONTACT BETWEEN THE FENDERETTE FLANGE AND THE SIDEPACK.
6. REMOVE ANY EXCESS ADHESIVE FROM OUTER EDGES.
7. ALLOW ADHESIVE TO CURE THREE TO FOUR HOURS BEFORE REMOVING CLAMPS. ADHESIVE WILL BE FULLY CURED IN EIGHT TO 24 HOURS.
8. (OPTIONAL) PAINT AREA UNDER FENDERETTE WITH FLAT BLACK PAINT.

PAINTING

1. THE OUTER SURFACE OF THE FLARE MUST BE CLEANED WITH DUPONT #3919S PREP-SOL OR EQUIVALENT. DO NOT USE LACQUER THINNER OR ENAMEL REDUCER AS A CLEANER.
2. A POLYPROPYLENE PRIMER (DITZLER DPX800 OR EQUIVALENT) MUST BE USED TO ASSURE COLOR COAT ADHESION. USE 3 COATS OF HIGH FILL PRIMER AND BLOCK SAND.
3. THE COLOR COAT MUST HAVE A FLEX ADDITIVE (DITZLER DX369 OR EQUIVALENT) ADDED TO PREVENT PAINT CRACKING.

REMOVING

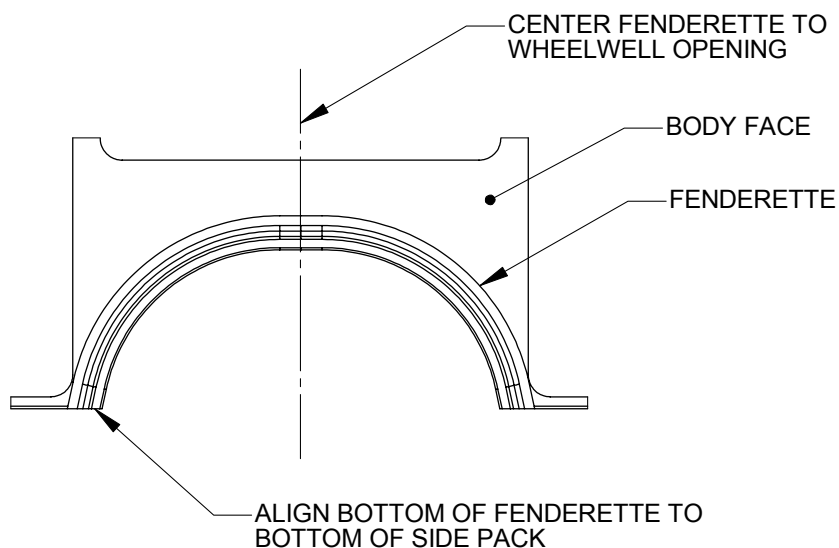
IF THE FENDERETTE CANNOT BE PEELED OFF, CUT THE BULK OF THE MATERIAL AWAY USING A KNIFE AND GRIND THE REMAINING MATERIAL

FENDER-ET

TITAN SERIES – P/N: 738597001

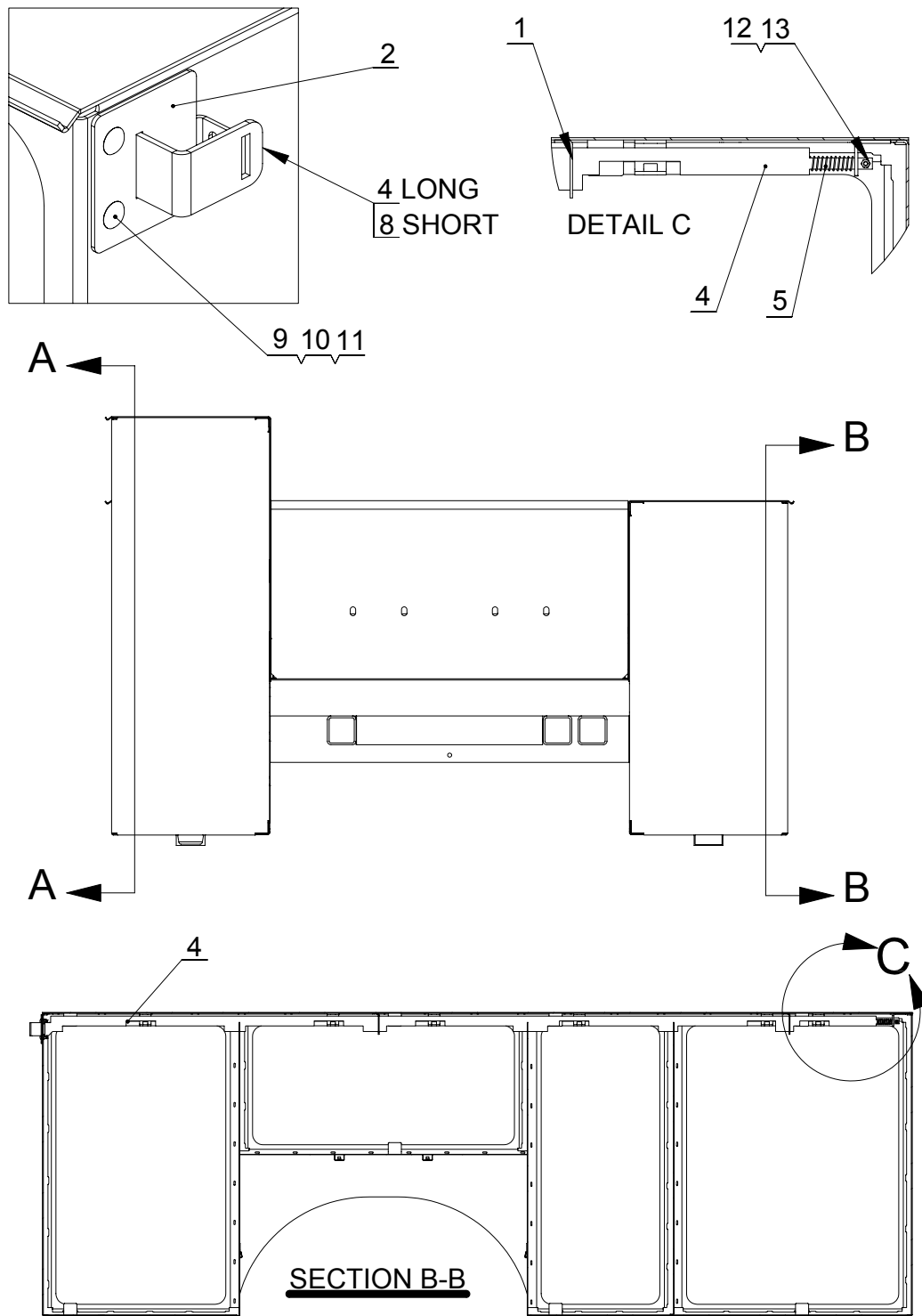
NOTE:

APPLICATOR KIT P/N: 752893000 INCLUDES APPLICATOR/PLUNGER/MIXING NOZZLE



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	738597000	FENDER FLARE TPO TITAN 25/38
2	1	752914000	ADHESIVE DP-8005 BLACK
3	1	752891000	PLUNGER, EPX PLUS II

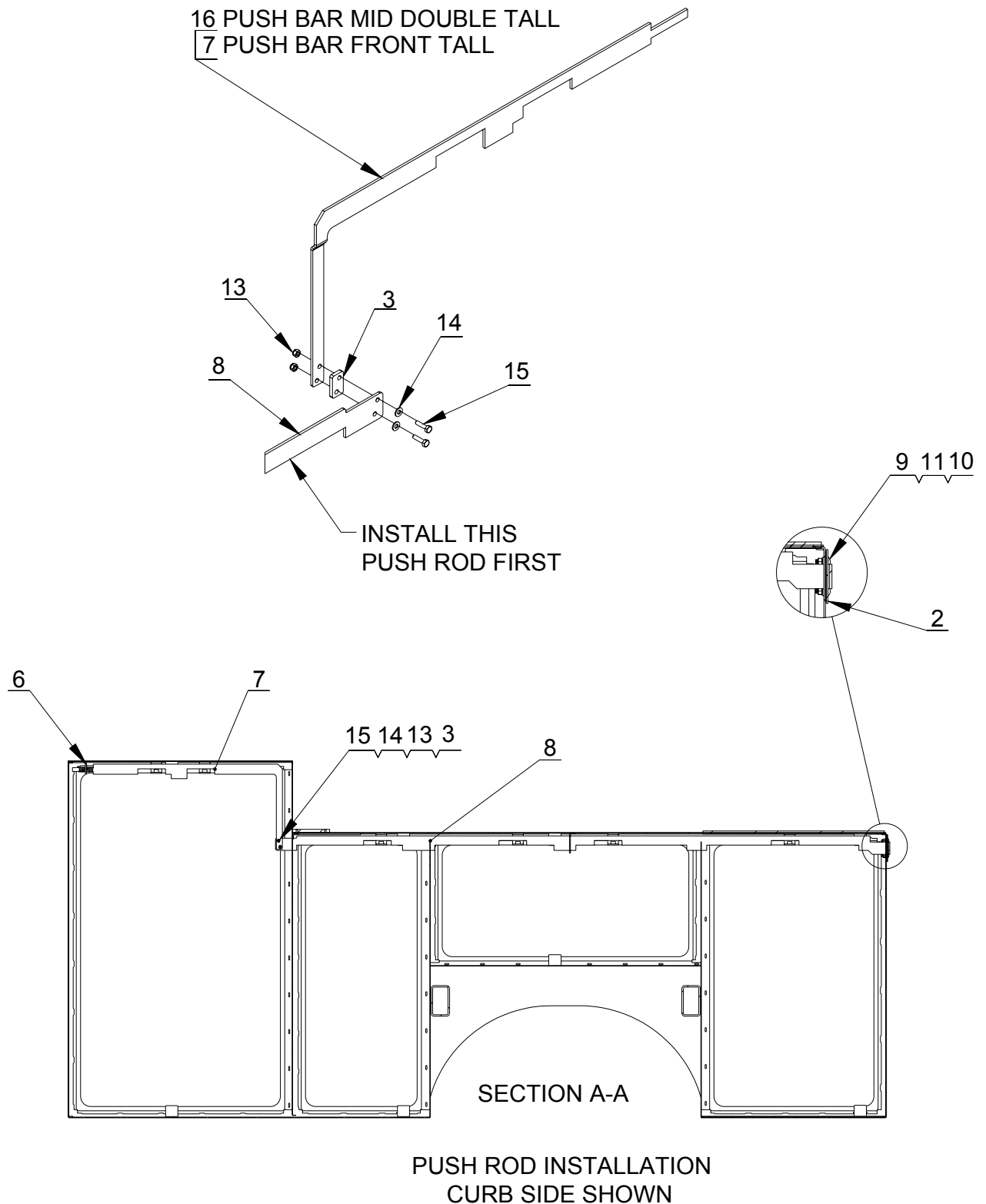
MASTER LOCK SYSTEM **TITAN SERIES 84CA – P/N: 738695-XXX**



INSTALLATION INTO BOTH CS AND SS STD SIDE PACKS ARE THE SAME

MASTER LOCK SYSTEM

TITAN SERIES 84CA – P/N: 738695-XXX



NOTES

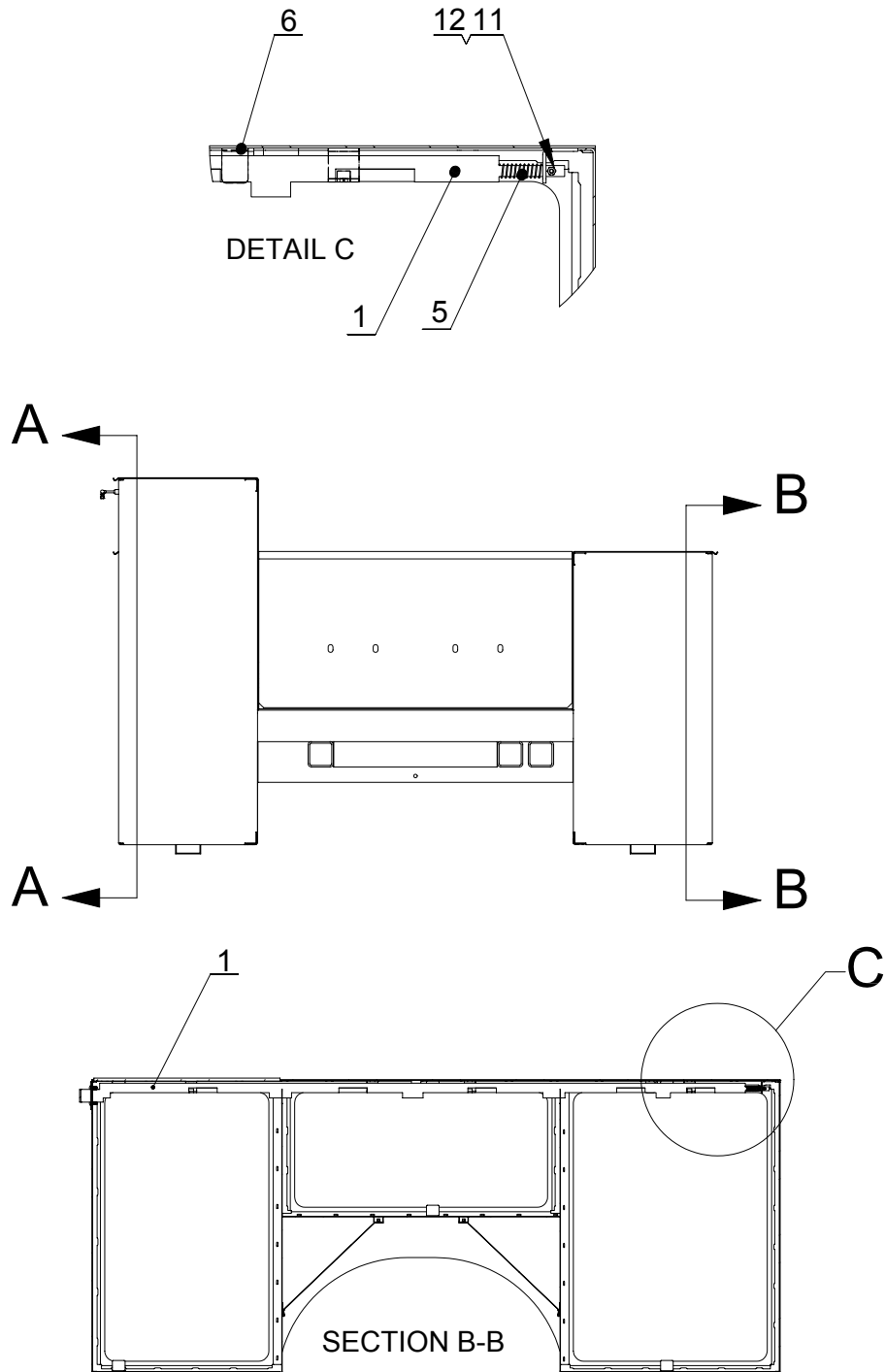
MASTER LOCK SYSTEM

TITAN SERIES 84CA – P/N: 738695-XXX

MASTER LOCK SYSTEM CHART			738695-000 CS TALL	738695-001 CS/SS TALL	738695-002 SS TALL	738695-003 STD	738695-004 STD (SS ONLY)	738695-005 CS DBL TALL	738695-006 SS DBL TALL
ITEM NO	DESCRIPTION	PART NO.	QTY	QTY	QTY	QTY	QTY	QTY	QTY
1	MASTER LOCK GUIDE	560119000	3	2	3	4	2	3	3
2	MASTERLOCK LOCKING PLATE	560121001	2	2	2	2	1	2	2
3	SPACER, PUSH ROD	760559000	1	2	1			1	1
4	PUSH BAR LONG SS	739190000	1			1	1	1	
	PUSH BAR LONG CS	739190002			1	1			1
5	SPRING	736730000	2	2	2	2	1	2	2
6	MASTER LOCK MOUNT	560122000	2	2	2	2	1	2	2
7	PUSH BAR FRONT TALL CS	739193000	1	1					
	PUSH BAR FRONT TALL SS	739193002		1	1				
	PUSH BAR FRONT DBL TALL	739195000						1	1
8	PUSH BAR SHORT SS	739191000	1	1					
	PUSH BAR SHORT CS	739191002		1	1				
	PUSH BAR SHORT DBL TALL CS	739192000						1	
	PUSH BAR SHORT DBL TALL SS	739192002							1
9	SCREW CARRIAGE 3/8-16UNC X 1 LG	560138000	4	4	4	4	2	4	4
10	WASHER SP LK 3/8	021100000	4	4	4	4	2	4	4
11	NUT HX 3/8-16UNC	330372000	4	4	4	4	2	4	4
12	SCREW HX HD 1/4-20UNC X 5/8 LG CP	005401000	1		1	2	1	1	1
13	NUT HX NYLK 1/4-20UNC	016300000	1		1	2	1	5	5
14	WASHER FL 1/4	020300000	2	4	2			4	4
15	SCREW HX HD 1/4-20UNC X 1 LG	005604000	2	4	2			4	4
16	PUSH BAR MID DBL TALL CS	739194000						1	
	PUSH BAR MID DBL TALL SS	739194002							1

MASTER LOCK SYSTEM

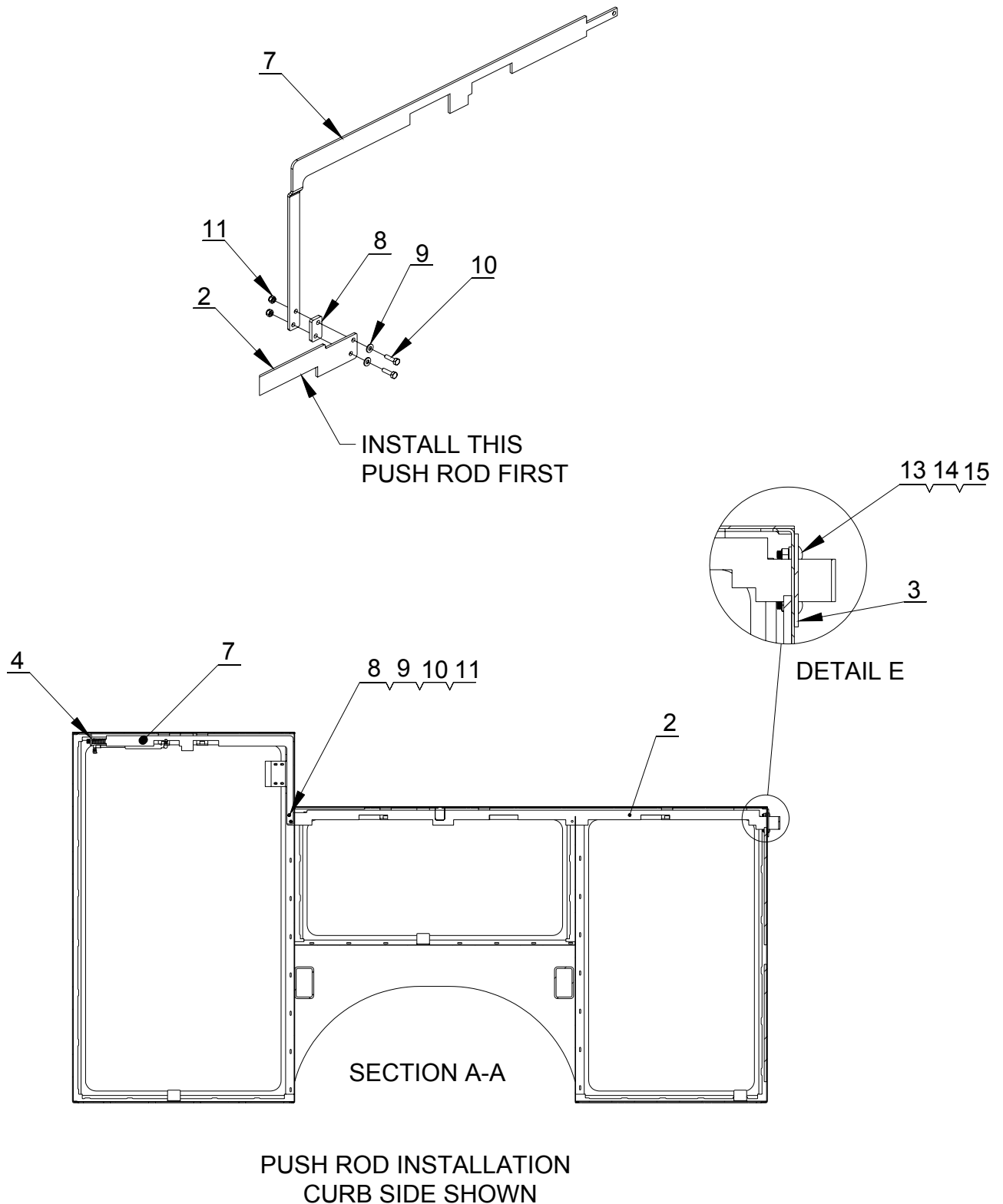
TITAN SERIES 60CA – P/N: 738805-XXX



INSTALLATION INTO BOTH CS AND SS STD SIDE PACKS ARE THE SAME

MASTER LOCK SYSTEM

TITAN SERIES 60CA – P/N: 738805-XXX



NOTES

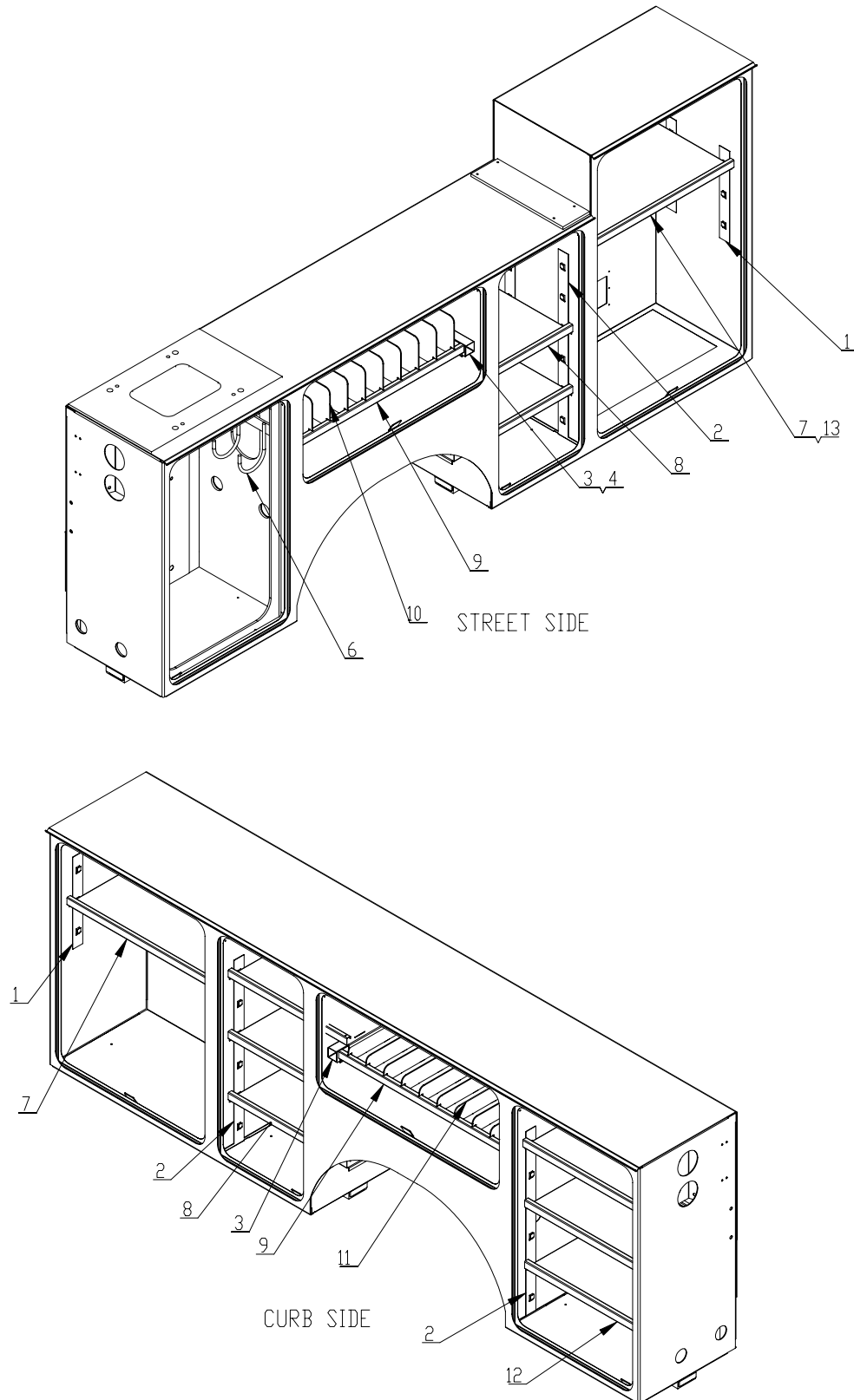
MASTER LOCK SYSTEM

TITAN SERIES 60CA – P/N: 738805-XXX

MASTER LOCK SYSTEM CHART			-000 STD	-001 CS TALL
ITEM NO.	DESCRIPTION	PART NO.	QTY	QTY
1	PUSH BAR LONG CS, TITAN 38/60CA	739197000	1	
	PUSH BAR LONG SS, TITAN 38/60CA	739197002	1	1
2	PUSH BAR SHORT DBL TALL CS	739192000		1
3	MASTERLOCK LOCKING PLATE	560121001	2	2
4	MASTER LOCK MOUNT	560122000	2	2
5	SPRING	736730000	2	2
6	MASTER LOCK GUIDE	736982000	4	3
7	PUSH BAR FRONT CS TALL, TITAN 38/60CA	739196000		1
8	SPACER, PUSH ROD	760559000		1
9	WASHER FL 1/4	020300000		2
10	SCREW HX HD 1/4-20UNC X 1 LG CP	005604000		2
11	NUT HX NYLK 1/4-20UNC	016300000	4	3
12	SCREW HX HD 1/4-20UNC X 5/8 LG CP	005401000	2	
13	SCREW CARRIAGE 3/8-16UNC X 1 LG	560138000	4	4
14	WASHER SP LK 3/8	021100000	4	4
15	NUT HX 3/8-16UNC	330372000	4	4

SHELF LOCATION

TITAN SERIES – P/N: 738830-XXX



SHELF LOCATION

TITAN SERIES – P/N: 738830-XXX

SHELF LOCATION CHART			000	001	002	003	004	005	006	007	008
ITEM	PART NO.	DESCRIPTION	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
1	750798000	SHELF STRIP SUPPORT 18"	8	4						4	8
2	750799000	SHELF STRIP SUPPORT 36"	12		4				4		4
3	340196000	TBG SQ 2 X .083W X 17	4			2	2				4
4	750804000	BRKT SHELF	4			2	2				4
**5	560227000	TBG SQ STL 2 1/2 X .120W X 36	2						2		2
6	750807000	CHAIN HOOK ASS'Y	1					1			1
*7	738825000	SHELF FRONT COMP	2	1							
8	738741000	SHELF MID TITAN 38	6		3						
9	738831000	SHELF HORIZ (PLASTIC DIVIDERS)	2			1	1				2
10	560481001	DIVIDER, SHELF TALL (PLASTIC)	10			10					10
11	560480001	DIVIDER, SHELF SHORT (PLASTIC)	13				10		3		13
12	738832000	SHELF REAR (PLASTIC DIVIDERS)	3						3		3
*13	738794000	SHELF FRONT COMP								1	2
*	FRONT COMP. SHELF F/6-CA CURB OR STR ONLY										
**	ITEM NOT SHOWN										

NOTE:

000 EQUALS ALL PARTS FOR TOTAL SHELF PACKAGE

001 EQUALS ONLY SHELVING FRONT COMP. CURB OR STR

002 EQUALS ONLY SHELVING MID COMP. CURB OR STR

003 EQUALS ONLY SHELVING HORIZ. COMP/ TALL DIVIDERS

004 EQUALS ONLY SHELVING HORIZ. COMP/ SHORT DIVIDERS

005 EQUALS ONLY CHAIN HOOK/REAR COMP. CRANE BOX

006 EQUALS ONLY SHELVING/REAR COMP. OPPOSITE CRN BOX

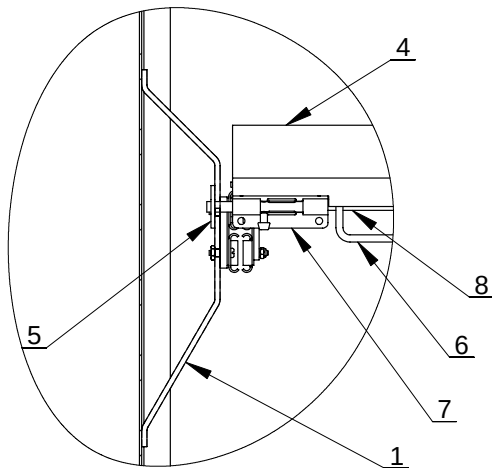
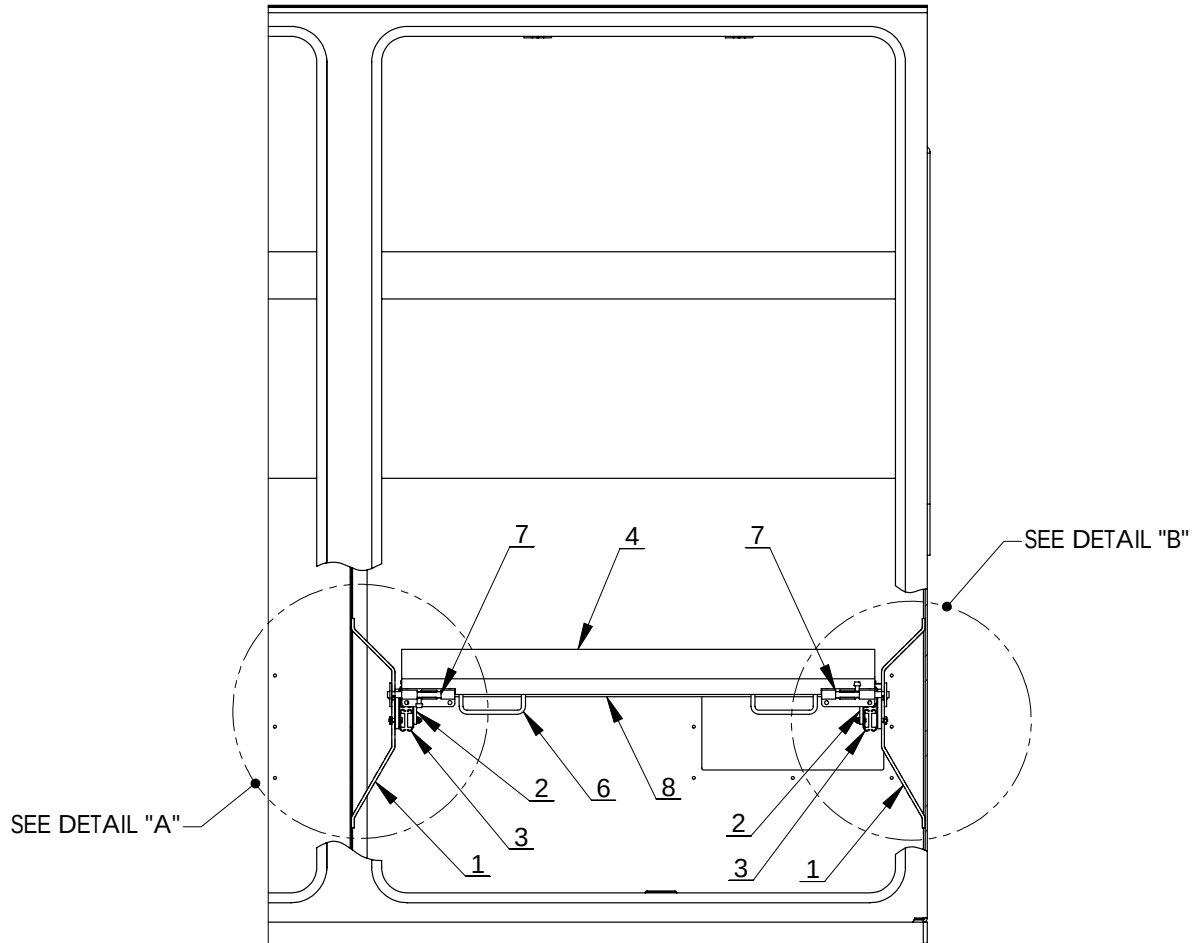
007 EQUALS ONLY SHELVING FRONT COMP. 60CA CURB OR STR

008 EQUALS ALL PARTS FOR TOTAL SHELF PACKAGE FOR A TITAN 38/60CA

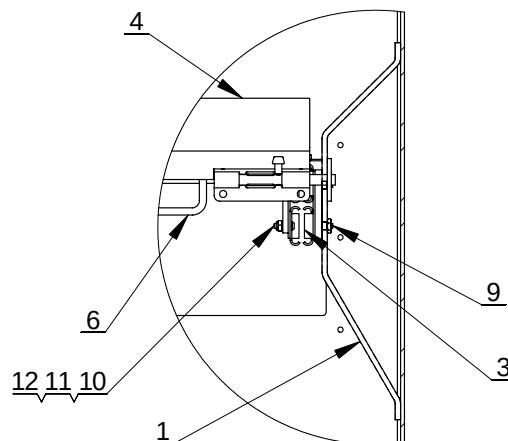
SLIDE OUT TRAY

TITAN SERIES – P/N: 560238000

(TO BE USED IN FRONT STREET OR CURB SIDE COMPARTMENT)



SEE DETAIL "A"



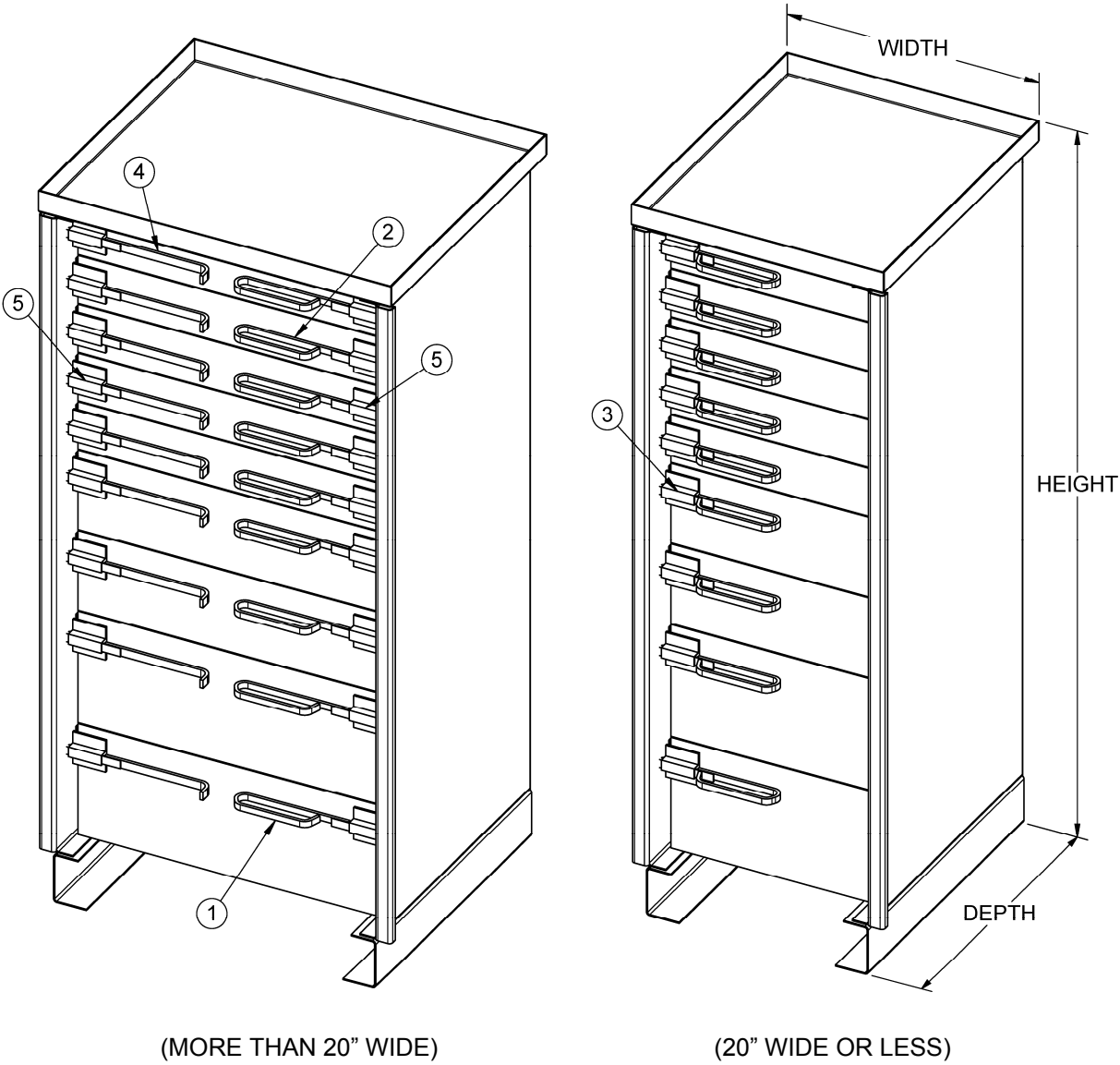
SEE DETAIL "B"

SLIDE OUT TRAY

TITAN SERIES – P/N: 560238000

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	560240000	SUPPORT WDMT SLIDE OUT TRAY
2	2	754554000	SUPPORT SHELF
3	1	754551000	SLIDE SET 18/550#
4	1	560241000	SHELF SLIDE OUT TRAY
5	2	750747000	BARREL BOLT RETAINER
6	2	725317000	DRAWER PULL
7	2	750742000	BARREL BOLT
8	2	340040000	ANG 1 X 1 X 1/4 X 27.50
9	20	001204000	SCREW FL HD #8-32UNC X 3/4 LG
10	20	753275000	SCREW SOC BUT HD #8-32UNC X 5/8 LG GR8
11	20	019700000	WASHER SP LK #8
12	20	725321000	NUT HX NYLK #8-32UNC

TOOL BOX
TITAN 38

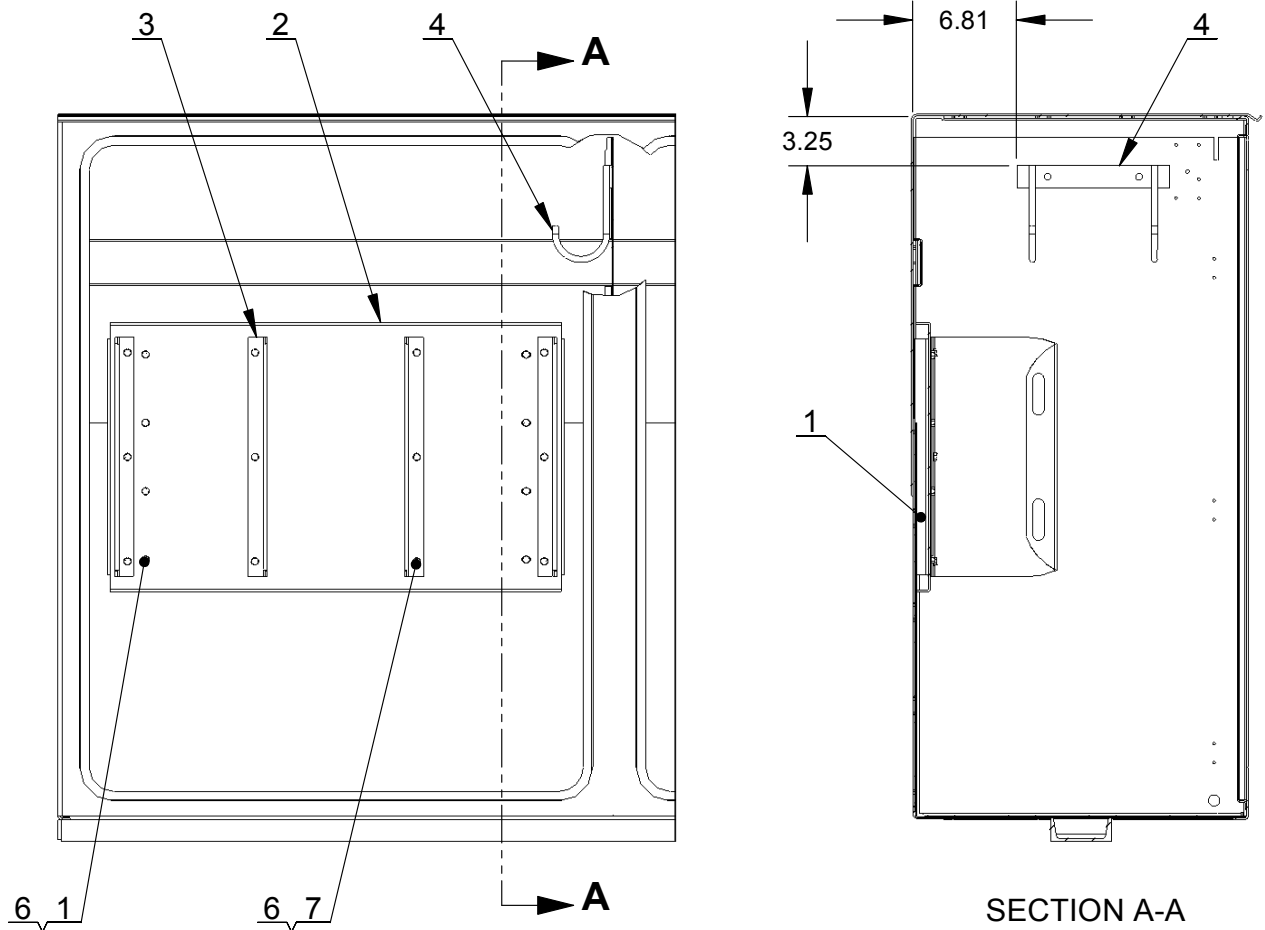


TOOL BOX TITAN 38

TOOLBOX PART NUMBERS		
COMPARTMENT	PART NO.	DESCRIPTION
FRONT (TALL)	560127000	TOOLBOX, (2) 7", (2) 5", (5) 3", 30W x 44.25H x 18D, FRONT, T38(TALL)/50/60/70
FRONT (STD)	560320000	TOOLBOX, (1) 7", (2) 5", (5) 3", 28W x 37.25H x 18D, FRONT, T38(STD)
MID	560321000	TOOLBOX, (1) 7", (2) 5", (5) 3", 16W x 37.25H x 18D, MID, T38
HORIZONTAL	560420000	TOOLBOX, (1) 5", (2) 3", 37W x 16.25H x 18D, HORIZ, T38
REAR	560421000	TOOLBOX, (1) 7", (3) 5", (4) 3", 24W x 39.25H x 18D, REAR, T38

TOOLBOX SERVICE PART NUMBERS		
ITEM	PART NO.	DESCRIPTION
1	560330000	BRUSHED HANDL W/O LOGO
2	560330003	8" BAR FOR HANDLE, TOOLBOX (24"W)
	560330005	10" BAR FOR HANDLE, TOOLBOX (28"W)
	560330006	11" BAR FOR HANDLE, TOOLBOX (30"W)
	560332008	14 1/2" BAR FOR HANDLE, TOOLBOX (37"W)
3	560332000	HANDLE & THUMB RELEASE, TOOLBOX (20"W OR LESS)
4	560332003	7 1/8" THUMB RELEASE BAR, W/O HANDLE, TOOLBOX (24"W)
	560332005	9 1/8" THUMB RELEASE BAR, W/O HANDLE, TOOLBOX (28"W)
	560332006	10 1/8" THUMB RELEASE BAR, W/O HANDLE, TOOLBOX (30"W)
	560332008	13 5/8" THUMB RELEASE BAR, W/O HANDLE, TOOLBOX (37"W)
5	560331000	LATCH BOLT, TOOLBOX, (MORE THAN 20"W)
*	560333000	HEAVY DUTY DRAWER SLIDES 16", TOOLBOX
*	560336000	DIVIDER 7" HIGH X 16"D, TOOLBOX
*	560335000	DIVIDER 5" HIGH X 16"D, TOOLBOX
*	560334000	DIVIDER 3" HIGH X 16"D, TOOLBOX
*	NOT SHOWN	

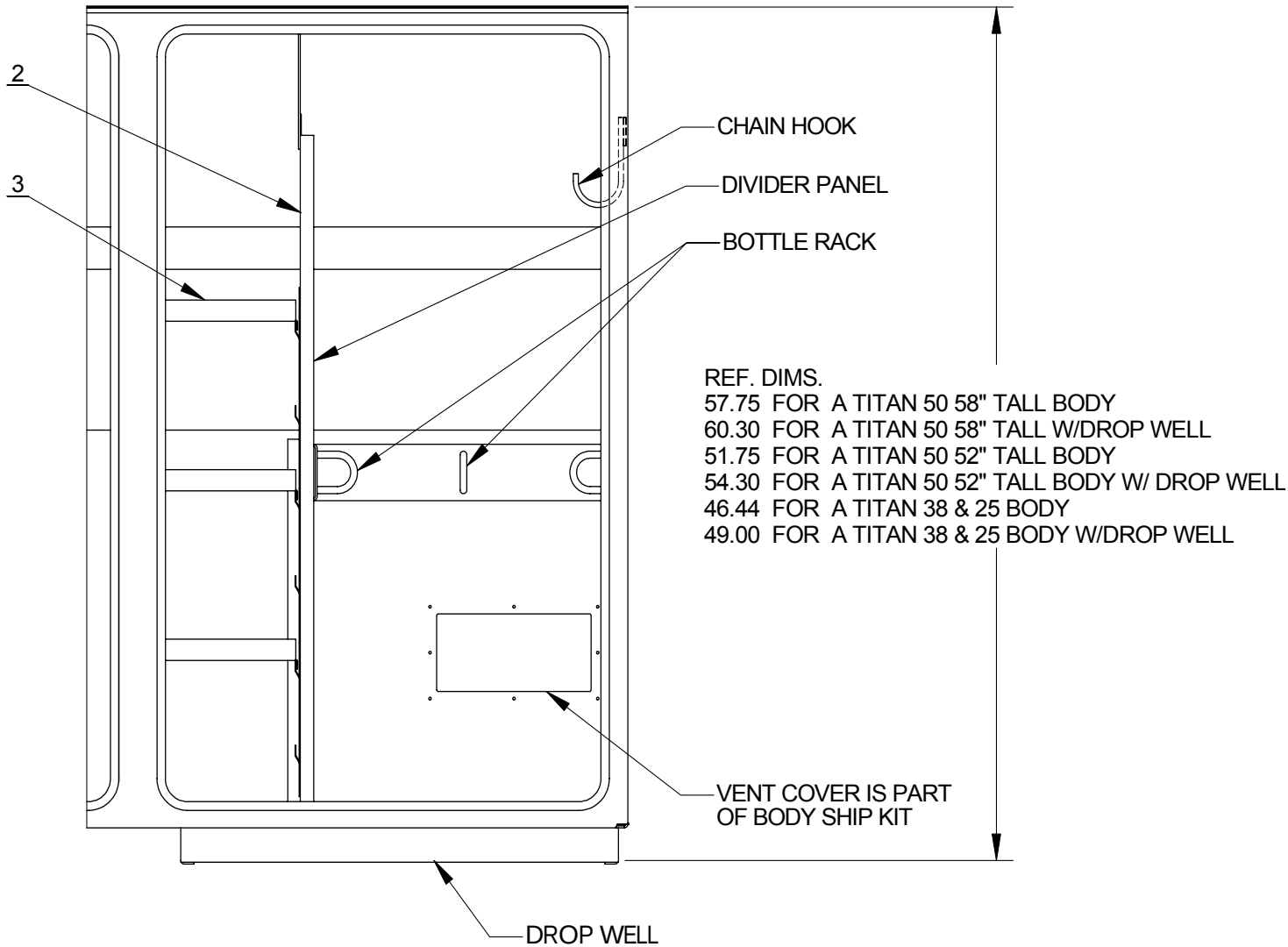
OXY/ACET ASSY TITAN SERIES – P/N: 736230000



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	738766000	MOUNTING CHANNEL ASSY
2	1	736226000	OXY-ACET MTG PLT ASSY
3	4	736229000	DIVIDER PNL - OXY/ACET
4	1	750613000	HOSE HOOK WDMT
*5	1	725039000	STRAP HOLD DOWN OXY/ACET
6	20	020200000	WASHER SP LK 1/4
7	20	005500000	SCREW HX HD 1/4-20UNC X 3/4 LG
*	NOT SHOWN		

OXY DIVIDER/SHELVING PACKAGE

TITAN SERIES – P/N: 560483000

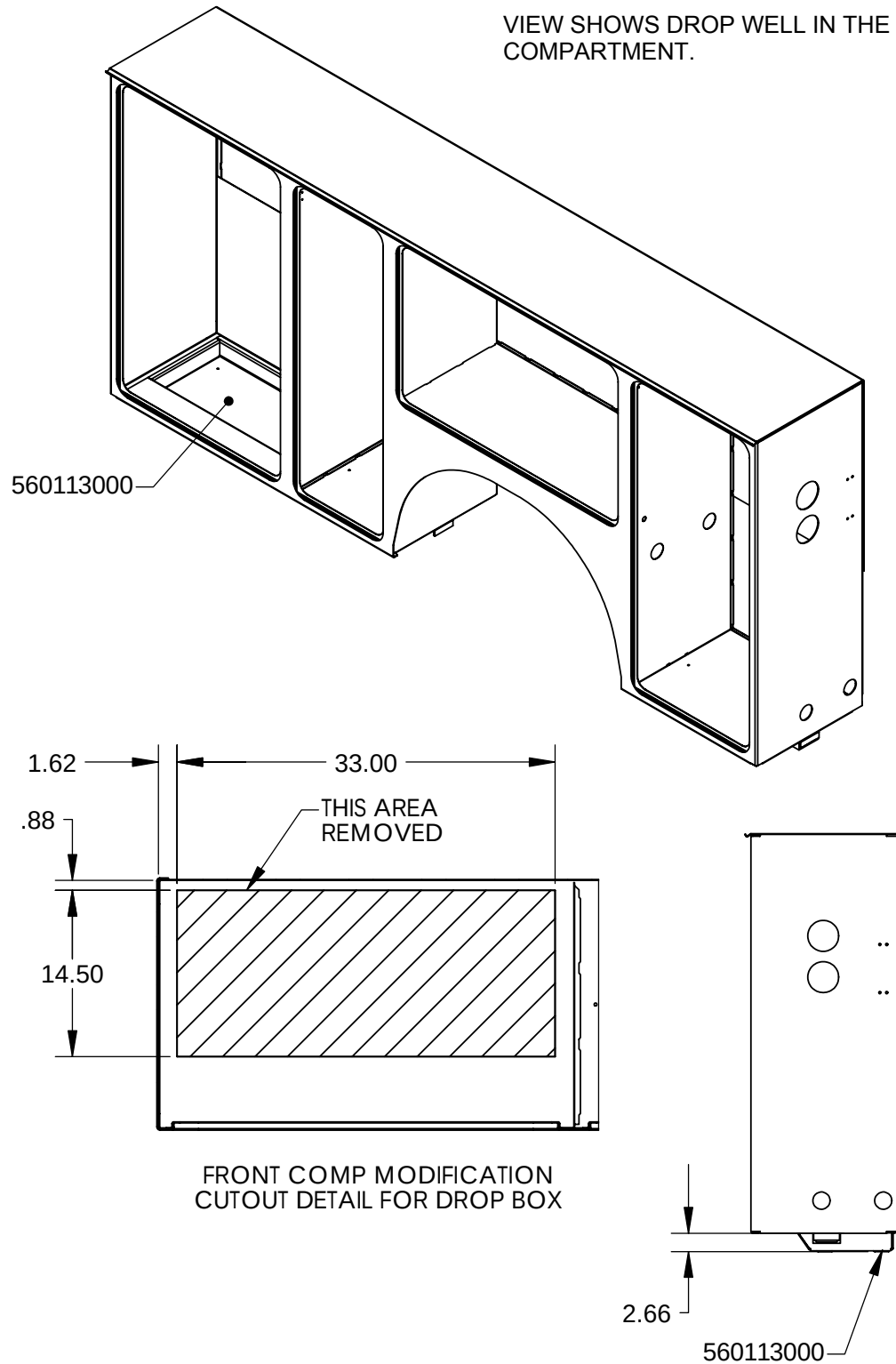


ITEM NO.	QTY.	PART NO.	DESCRIPTION
*1	1	725039000	STRAP HOLD DOWN OXY/ACET
2	1	560400000	OXY DIVIDER/SHELVING WELDMENT
3	3	560484000	SHELF FRONT COMP (OXY/DIVIDER)
*	NOT SHOWN		

DROP WELL 2"

TITAN SERIES – P/N: 560206000

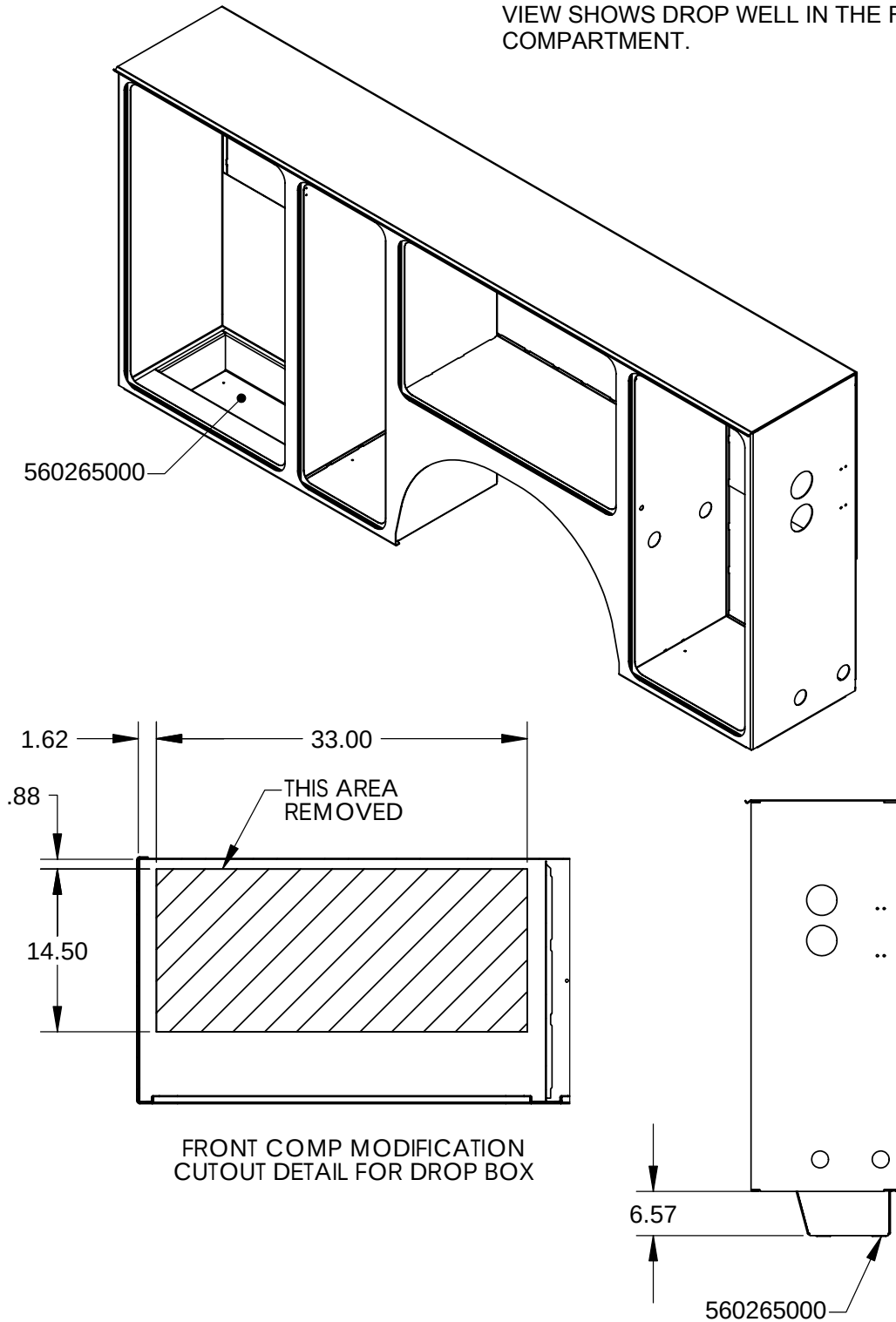
VIEW SHOWS DROP WELL IN THE FRONT COMPARTMENT.



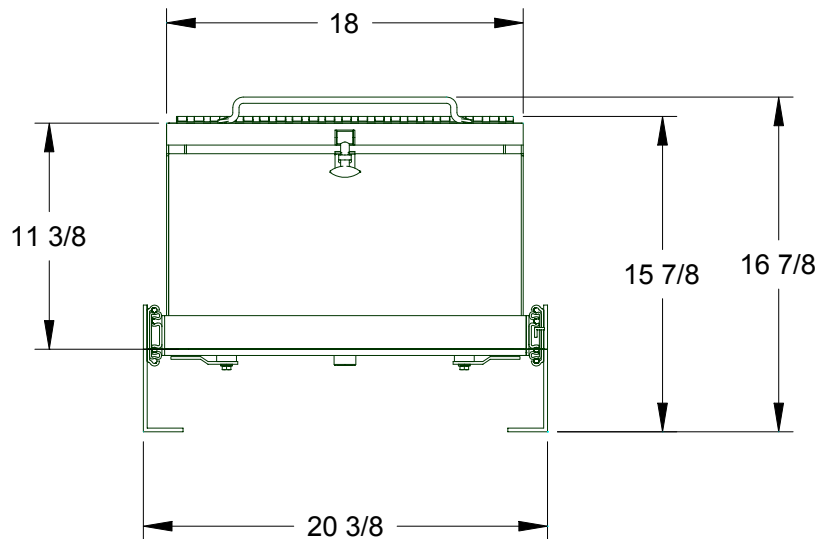
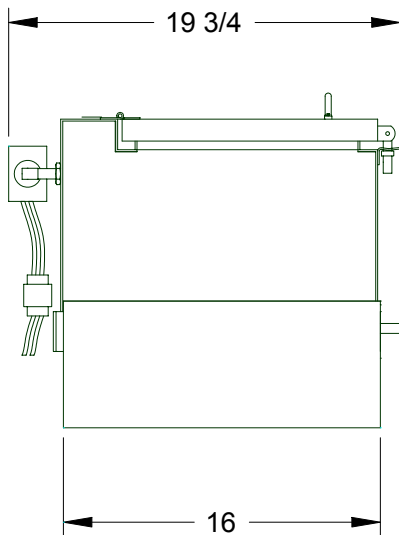
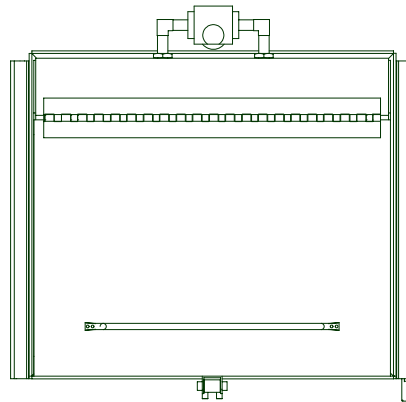
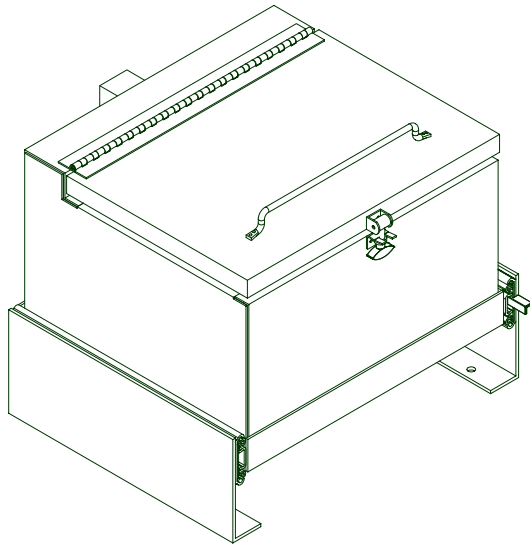
DROP WELL 6"

TITAN SERIES – P/N: 560258000

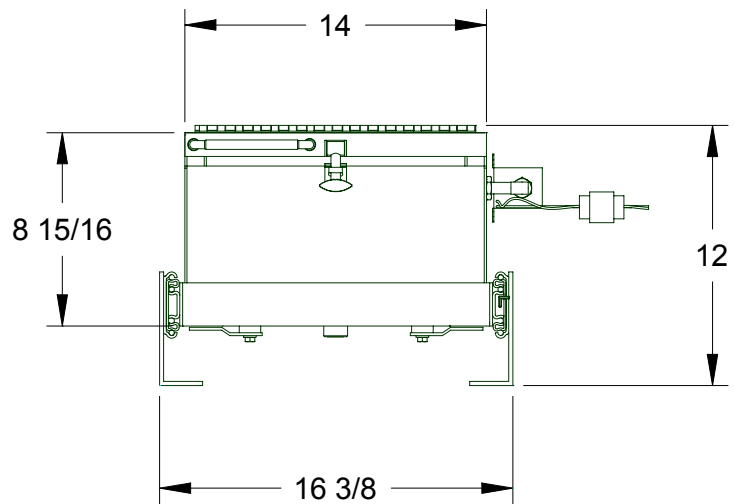
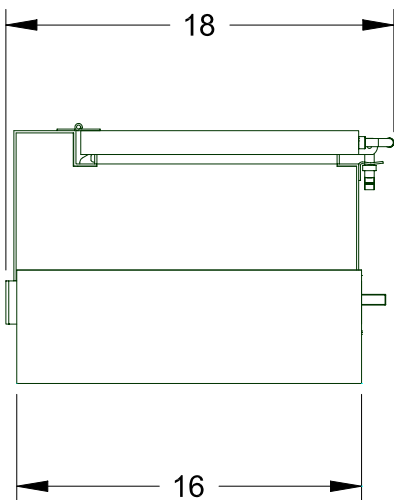
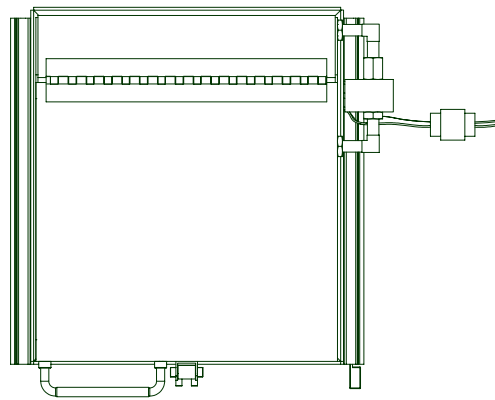
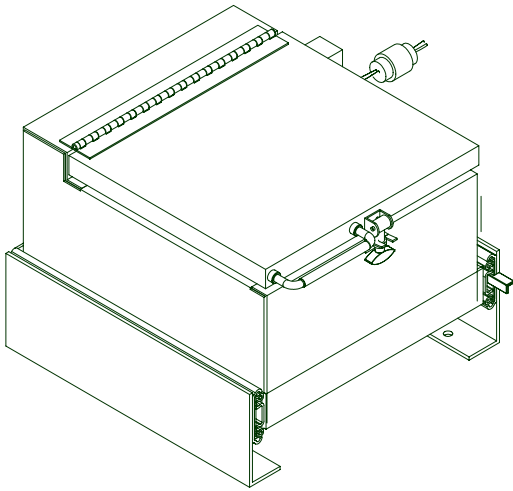
VIEW SHOWS DROP WELL IN THE FRONT
COMPARTMENT.



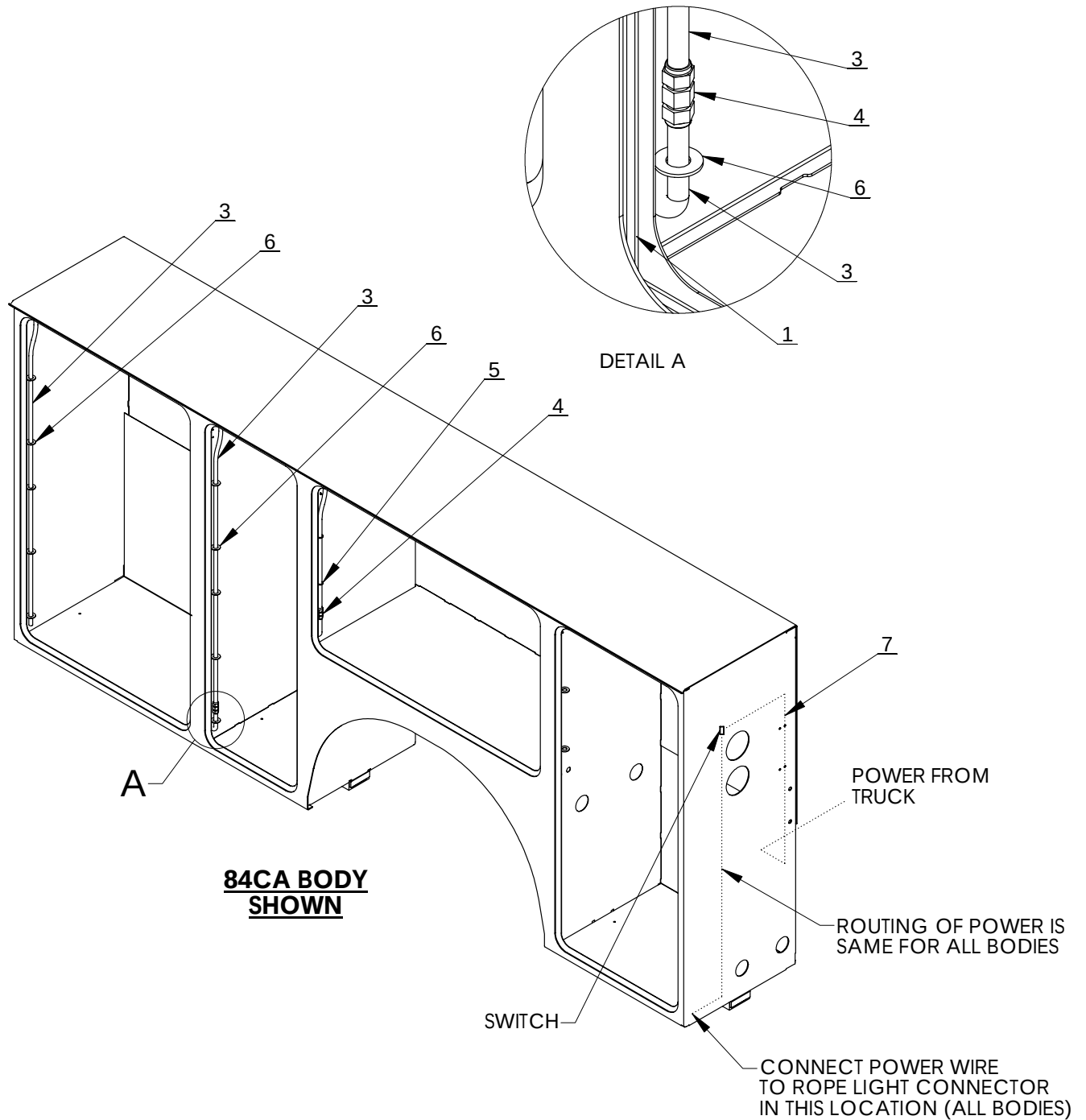
PARTS WASHER - LARGE TITAN SERIES – P/N: 560600000



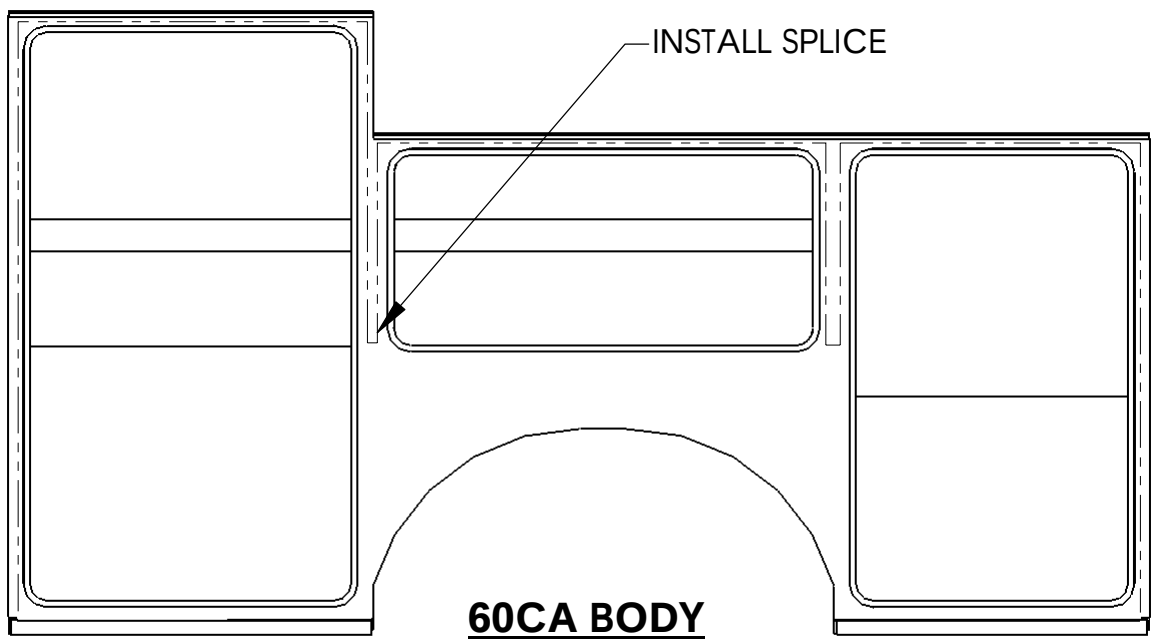
PARTS WASHER - SMALL TITAN SERIES – P/N: 560601000



ROPE LIGHT KIT **TITAN SERIES – P/N: 560271-XXX**

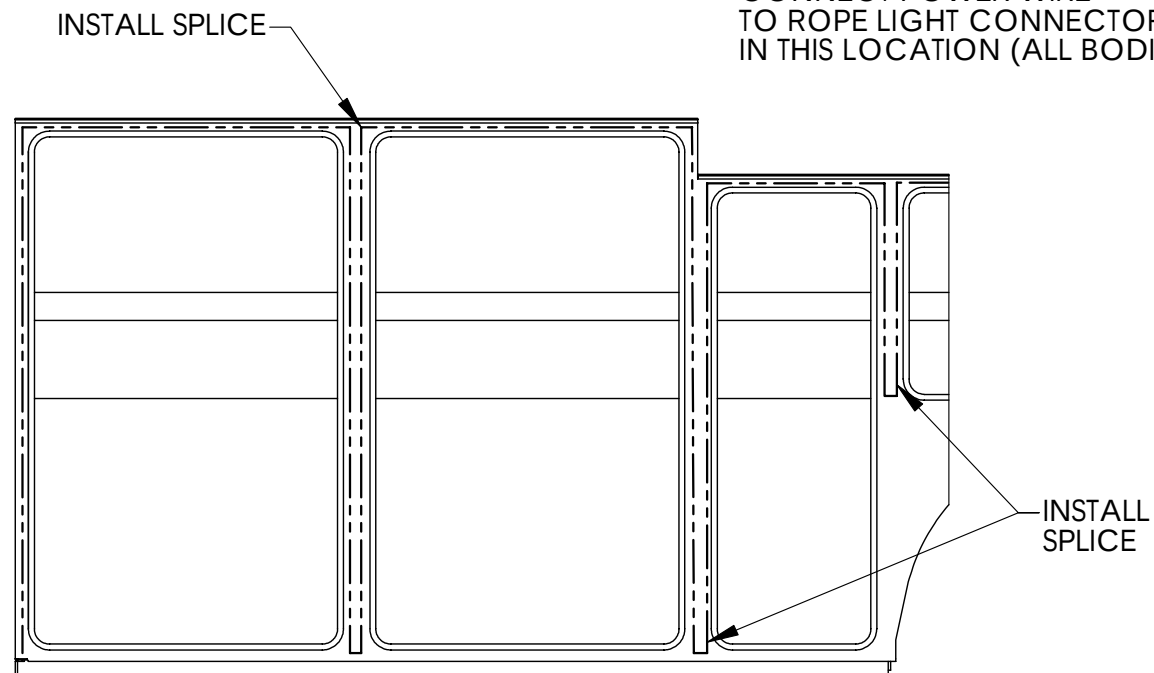
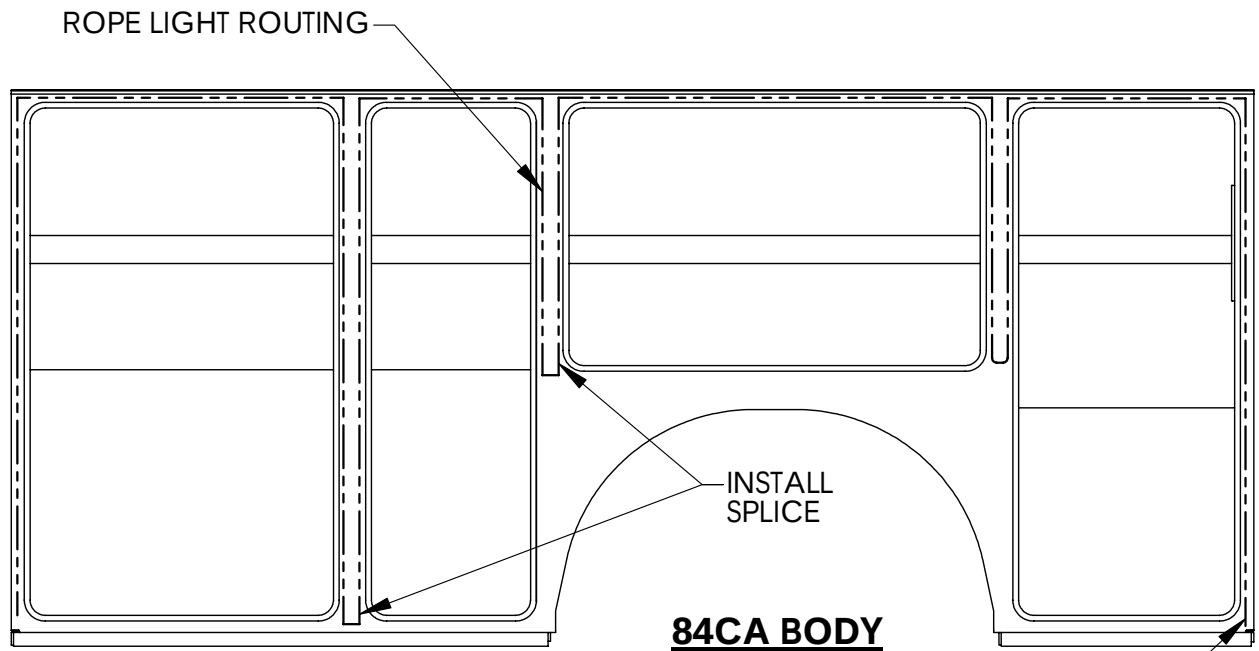


ROPE LIGHT KIT
TITAN SERIES – P/N: 560271-XXX



ROPE LIGHT KIT

TITAN SERIES – P/N: 560271-XXX

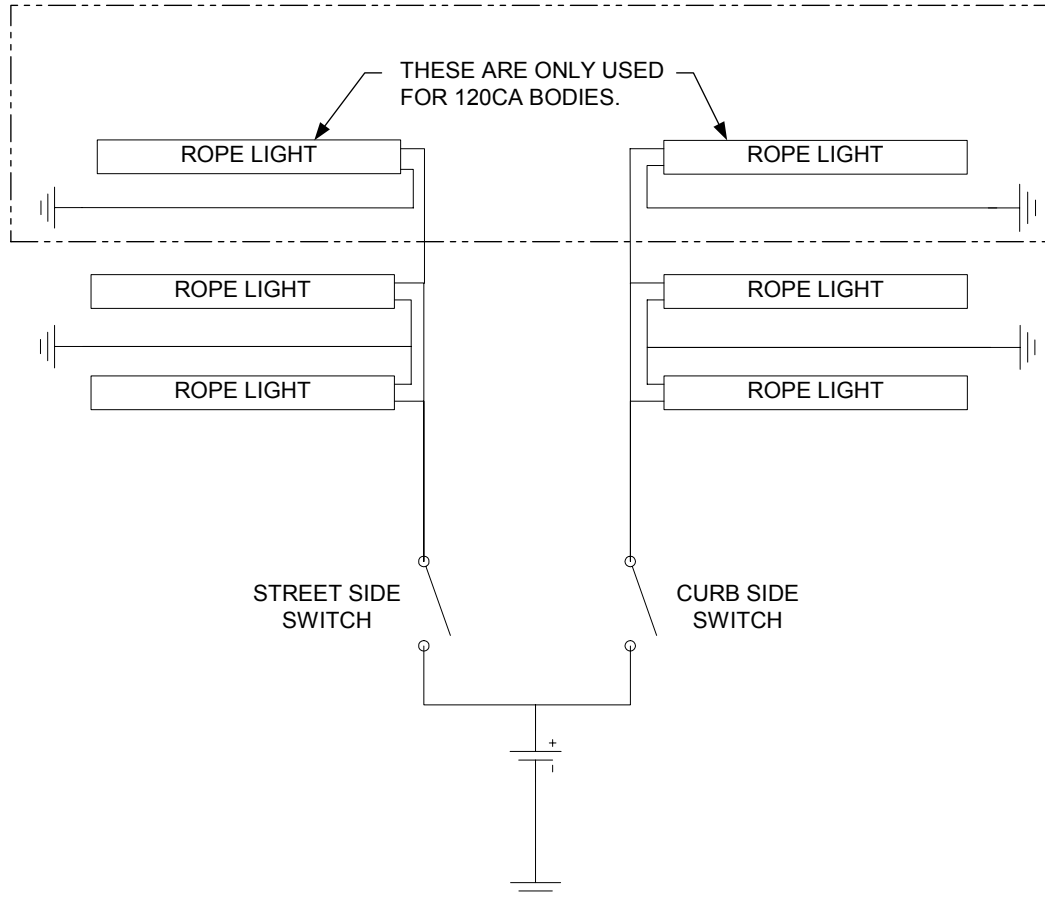


120CA BODY

ROUTING FOR HORIZ. & REAR COMPARTMENTS
ARE THE SAME AS OTHER BODIES

ROPE LIGHT KIT

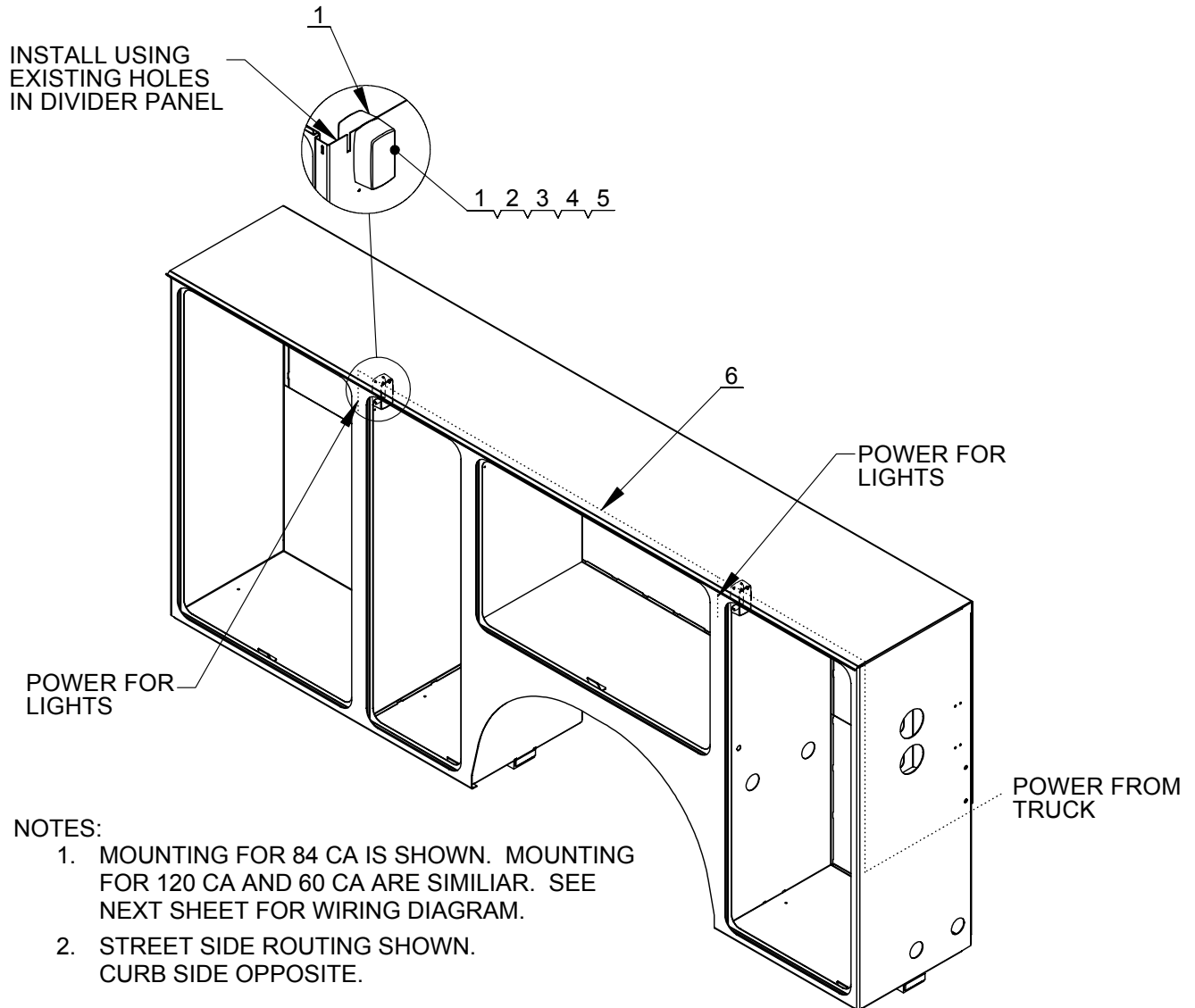
TITAN SERIES – P/N: 560271-XXX



COMPARTMENT LIGHT KIT CHART			-000 (84 CA)	-010 (120 CA)	-020 (60 CA)
ITEM NO.	DESCRIPTION PART,NO.	PART NO.	QTY.	QTY.	QTY.
1	GROMMET, RUBBER	750169000	6	6	6
2	SWITCH TOGGLE (ON-OFF)	750739000	2	2	2
3	LIGHTING, ROPE	560116000	3	5	3
4	SPLICE, 1/2" ROPE LIGHT	560388000	2	4	2
5	TIE WRAP PUSH-IN	560383000	20	32	12
6	WASHER FL 5/8 X 1 5/16 OD	407314000	64	73	56
7	WIRE 16GA 600V BLACK	800590000	30'	35'	30'

COMPARTMENT LIGHT KIT

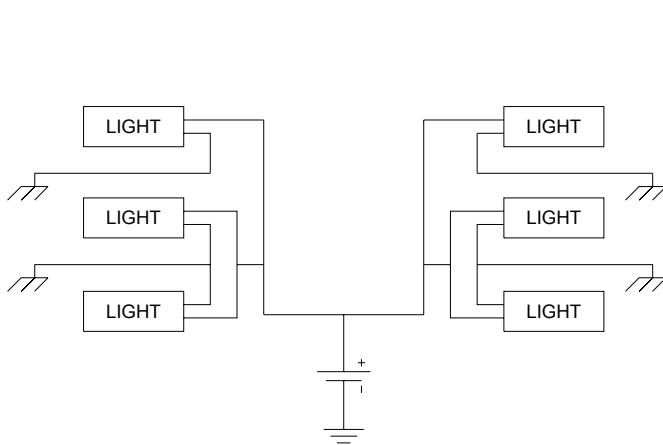
TITAN SERIES – P/N: 560271-XXX



COMPARTMENT LIGHT KIT CHART			-001 (84 CA)	-011 (120 CA)	-021 (60 CA)
ITEM NO.	DESCRIPTION	PART NO.	QTY.	QTY.	QTY.
1	LIGHT, COMPARTMENT	750730000	8	10	6
2	WASHER FL #8 ZP	019701000	16	20	12
3	SCREW RD HD #8-32UNC X 3/4LG	001503000	16	20	12
4	WASHER SP LK #8	019700000	16	20	12
5	NUT HX #8-32UNC CP	015500000	16	20	12
6	WIRE 16 GA 600V BLACK	800590000	40'	46'	36'

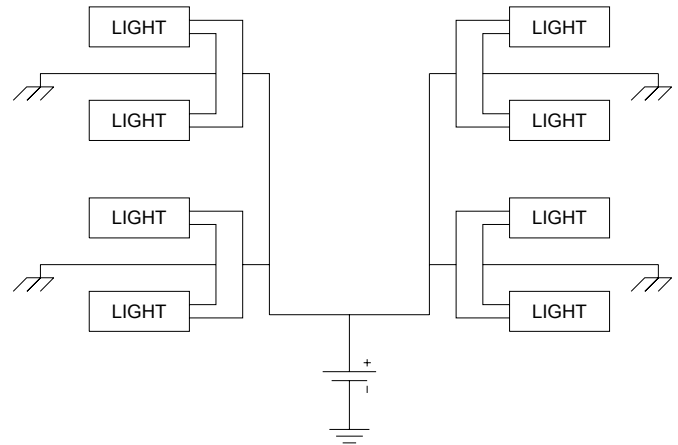
COMPARTMENT LIGHT KIT

TITAN SERIES – P/N: 560271-XXX



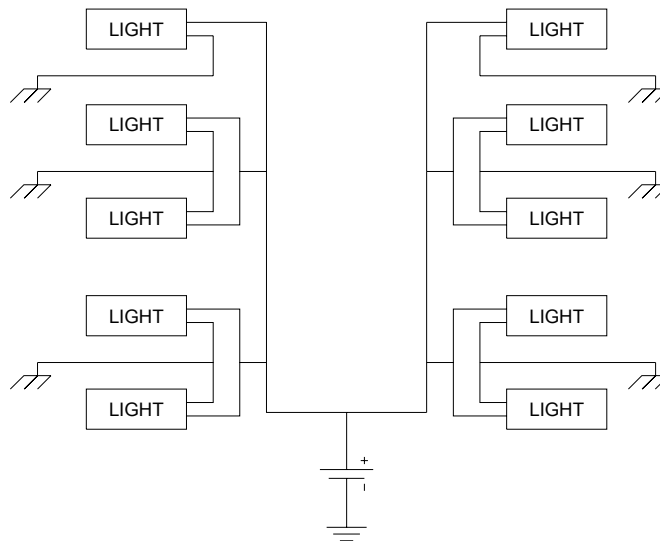
560271021 - 60 CA

THE COMPARTMENT LIGHTS ARE MOUNTED BACK TO BACK ON THE DIVIDER PANEL BETWEEN THE HORIZONTAL AND REAR COMPARTMENTS. THE OTHER LIGHT IS MOUNTED ON THE DIVIDER PANEL BETWEEN THE FRONT & HORIZONTAL COMPARTMENTS FACING THE FRONT COMPARTMENT



560271001 - 84 CA

THE COMPARTMENT LIGHTS ARE MOUNTED BACK TO BACK ON THE DIVIDER PANEL BETWEEN THE FRONT AND MID COMPARTMENT AS WELL AS THE HORIZONTAL AND REAR COMPARTMENTS.



560271011 - 120 CA

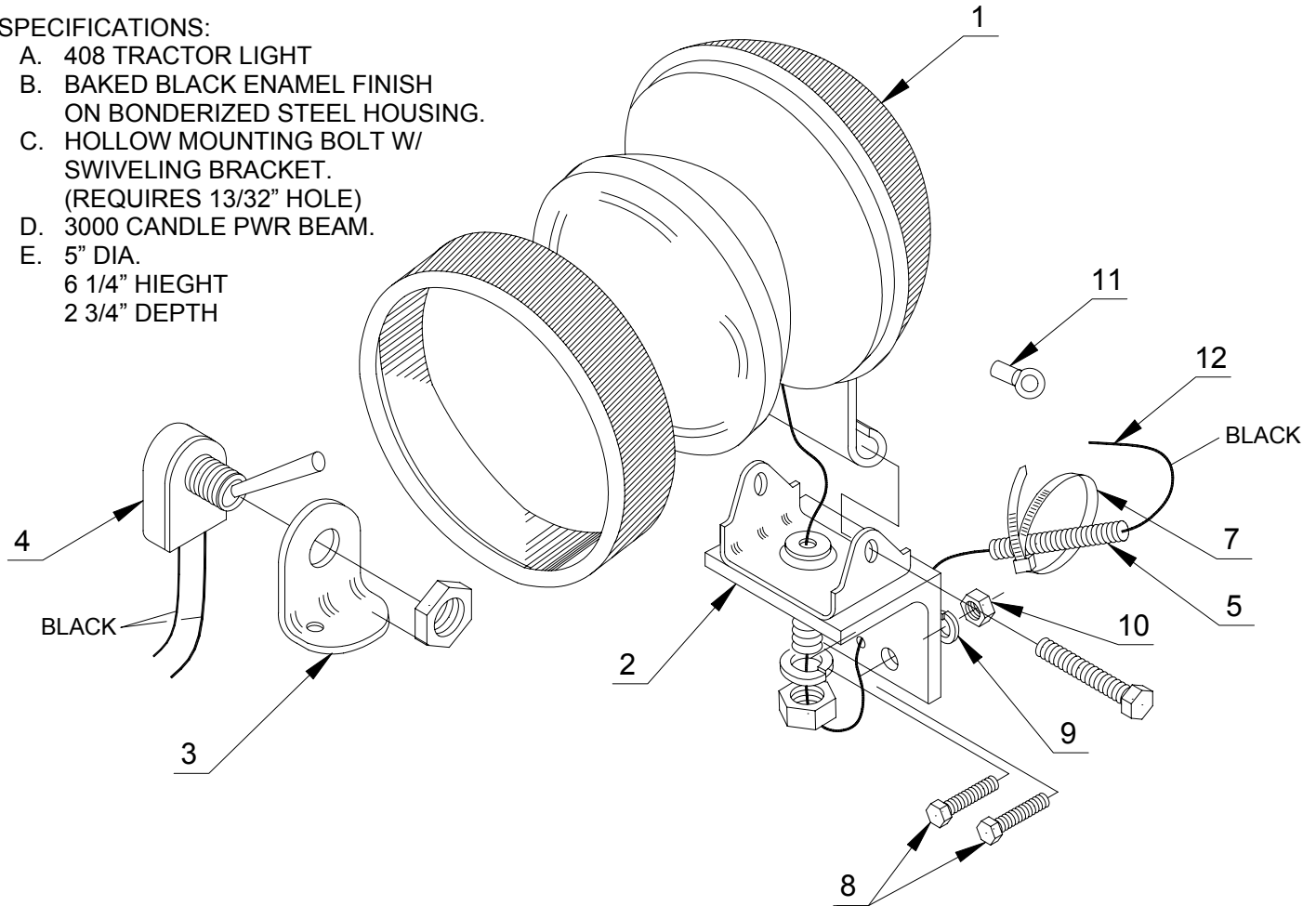
THE COMPARTMENT LIGHTS ARE MOUNTED BACK TO BACK ON THE DIVIDER PANEL BETWEEN THE FRONT AND MID COMPARTMENT AS WELL AS THE HORIZONTAL AND REAR COMPARTMENTS. THE OTHER LIGHT IS MOUNTED ON THE DIVIDER PANEL BETWEEN THE TWO FRONT COMPARTMENTS FACING THE CAB.

FLOOD LIGHT KIT

TITAN SERIES – P/N: 750825000

SPECIFICATIONS:

- A. 408 TRACTOR LIGHT
- B. BAKED BLACK ENAMEL FINISH ON BONDERIZED STEEL HOUSING.
- C. HOLLOW MOUNTING BOLT W/ SWIVELING BRACKET.
(REQUIRES 13/32" HOLE)
- D. 3000 CANDLE PWR BEAM.
- E. 5" DIA.
6 1/4" HIEGHT
2 3/4" DEPTH



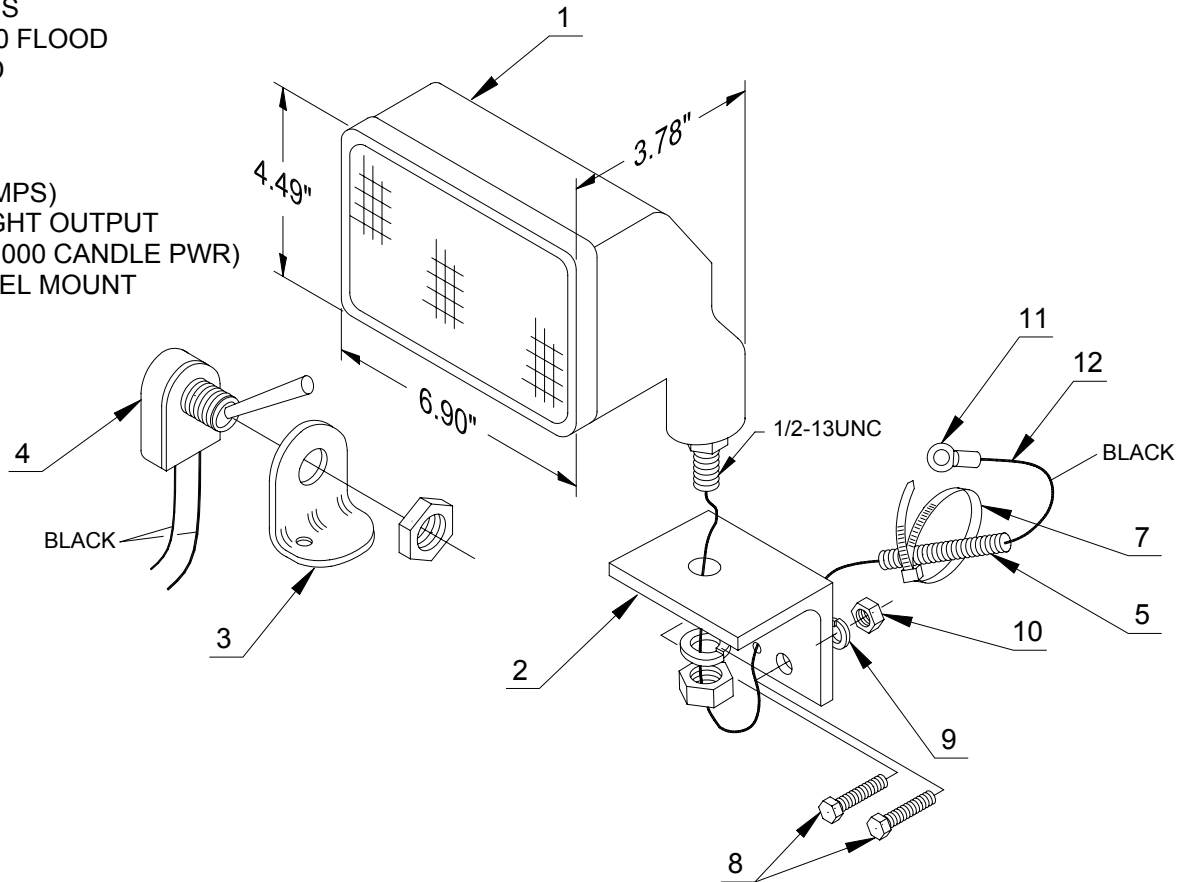
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	750737000	LIGHT, FLOOD
2	1	750878000	BRACKET, MOUNTING FLOOD LAMP
3	1	750877000	BRACKET, MOUNT (TOGGLE SWITCH)
4	1	750739000	SWITCH, TOGGLE (ON-OFF)
5	1 FT	750736000	LOOM, CONVOLUTED (SPRIAL WRAP)
6	1	750738000	STICK-ON, CABLE TIE MOUNT
7	1	750737000	TIE-CABLE
8	2	006200000	SCREW HX HD 1/4-20UNC X 1 1/4 LG
9	2	020200000	WASHER SP LK 1/4 CP
10	2	015900000	NUT HX 1/4-20UNC CP
11	2	000302000	TERMINAL, WIRE (2RB14)
12	1 FT	800590000	WIRE, 16GA 600V 1C BLACK

QUARTZ FLOOD LIGHT KIT

TITAN SERIES – P/N: 750825001

SPECIFICATIONS:

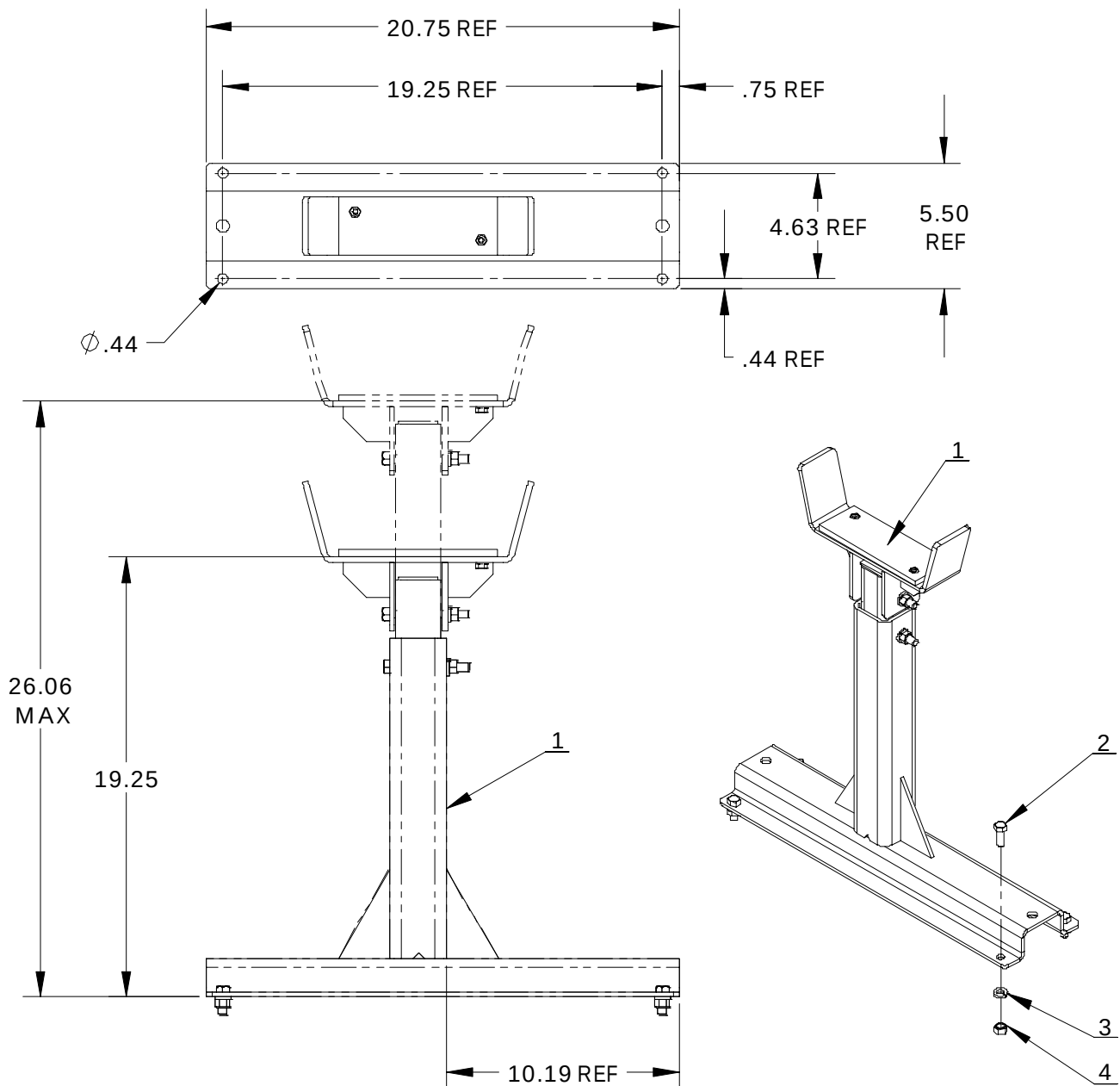
- A. HIGH BULB LIFE, 400 HR. AVERAGE
- B. EASILY REPLACEABLE BEAM
- C. FIELD TESTED UNDER EXTREME CONDITIONS
- D. 80 DEG X 30 FLOOD
- E. TRAPEZOID
- F. SOFT
- G. 12 VOLT
- H. 50 WATT
- I. DRAW (4 AMPS)
- J. HIGHER LIGHT OUTPUT (UP TO 200,000 CANDLE PWR)
- K. EASY SWIVEL MOUNT



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	750026000	LIGHT, SEALED BEAM
2	1	750878000	BRACKET, MOUNTING FLOOD LAMP
3	1	750877000	BRACKET, MOUNT (TOGGLE SWITCH)
4	1	750739000	SWITCH, TOGGLE (ON-OFF)
5	1 FT	750736000	LOOM, CONVOLUTED (SPRIAL WRAP)
6	1	750738000	STICK-ON, CABLE TIE MOUNT
7	1	750737000	TIE-CABLE
8	2	006200000	SCREW HX HD 1/4-20UNC X 1 1/4 LG
9	2	020200000	WASHER SP LK 1/4 CP
10	2	015900000	NUT HX 1/4-20UNC CP
11	2	000302000	TERMINAL, WIRE (2RB14)
12	1 FT	800590000	WIRE, 16GA 600V 1C BLACK

BOOM SUPPORT

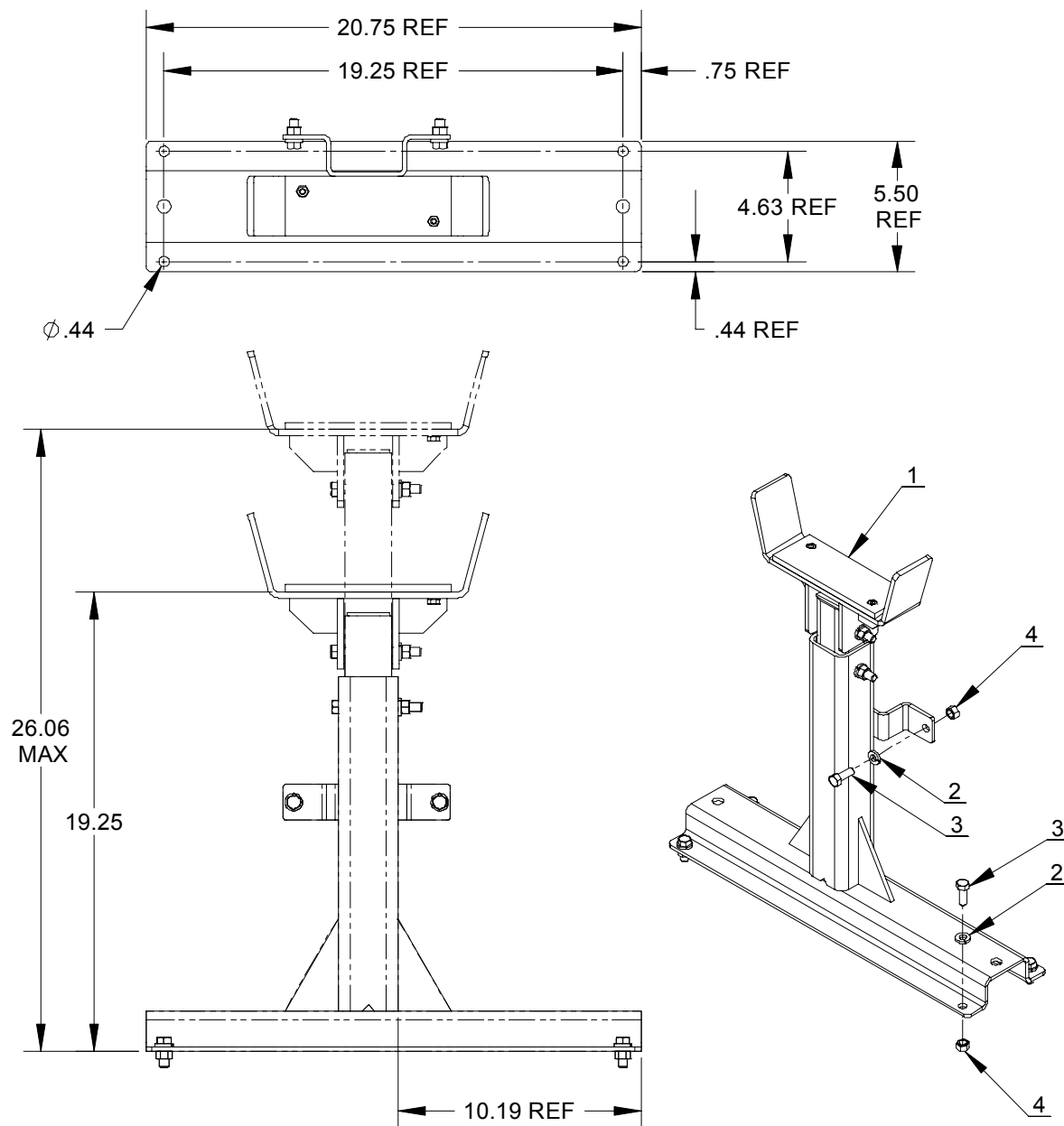
TITAN SERIES – P/N: 560455000



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	560195000	BOOM SUPPORT ASSY
2	4	330371000	SCREW HX HD 3/8-16UNC X 1 LG GR8
3	4	021100000	WASHER SP LK 3/8
4	4	330372000	NUT HX 3/8-16UNC

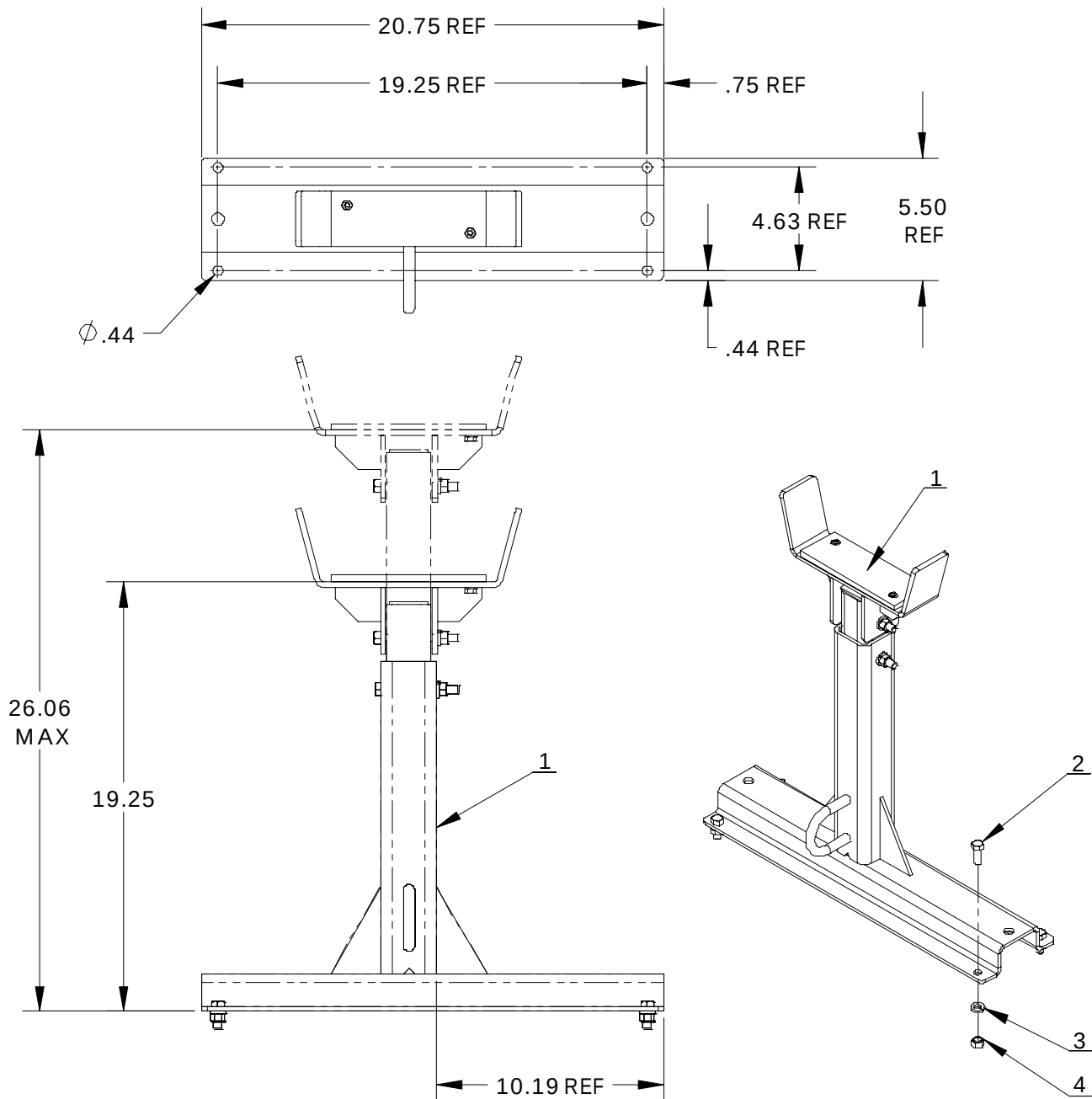
BOOM SUPPORT (TALL COMPARTMENTS)

TITAN SERIES – P/N: 738505000



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738506000	BOOM SUPPORT ASSY
2	6	021100000	WASHER SP LK 3/8
3	6	330371000	SCREW HX HD 3/8-16UNC X 1 LG GR8
4	6	330372000	NUT HX 3/8-16UNC

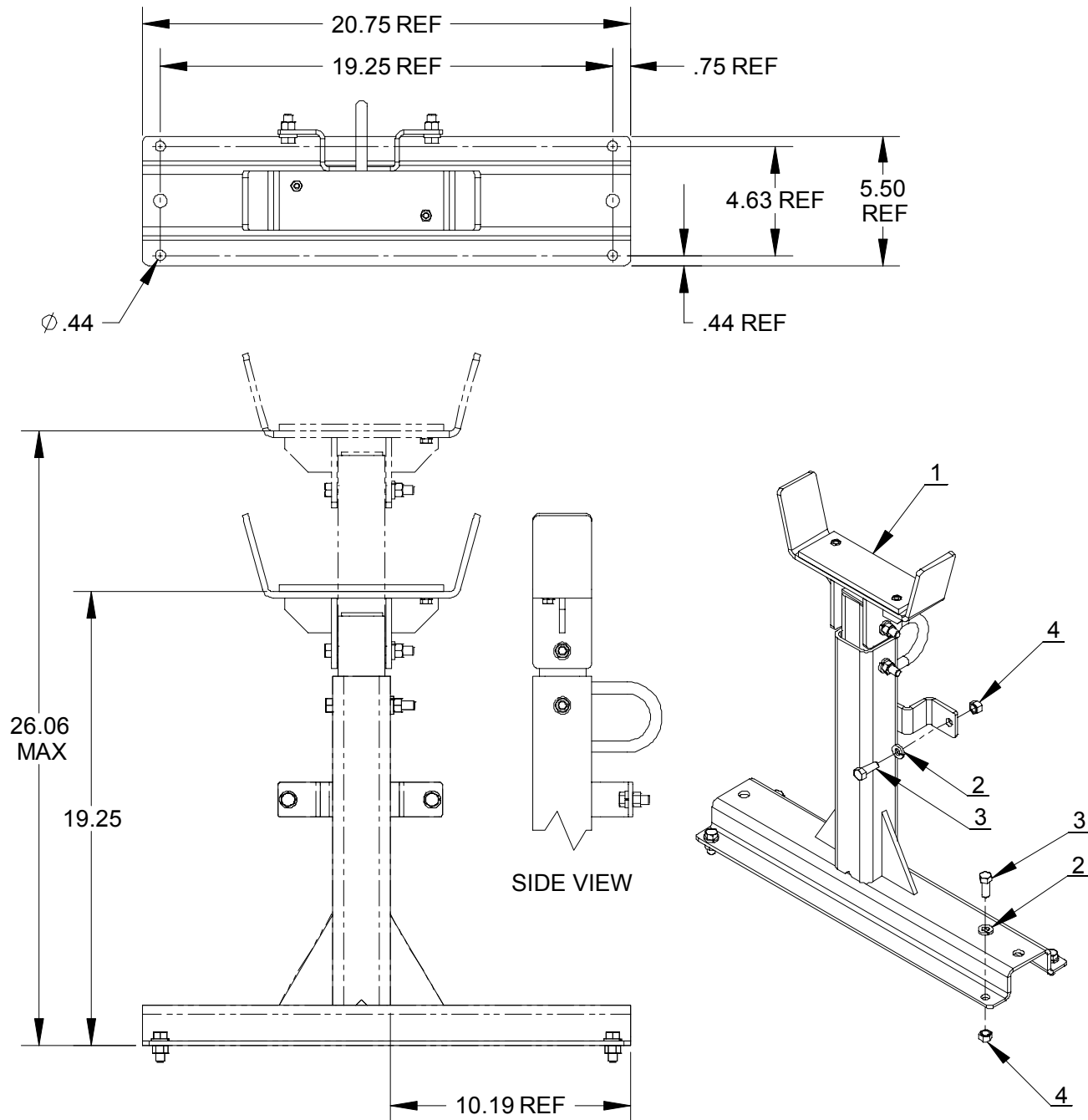
BOOM SUPPORT TITAN SERIES – P/N: 560455001



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	560195001	BOOM SUPPORT ASSY
2	4	330371000	SCREW HX HD 3/8-16UNC X 1 LG GR8
3	4	021100000	WASHER SP LK 3/8
4	4	330372000	NUT HX 3/8-16UNC

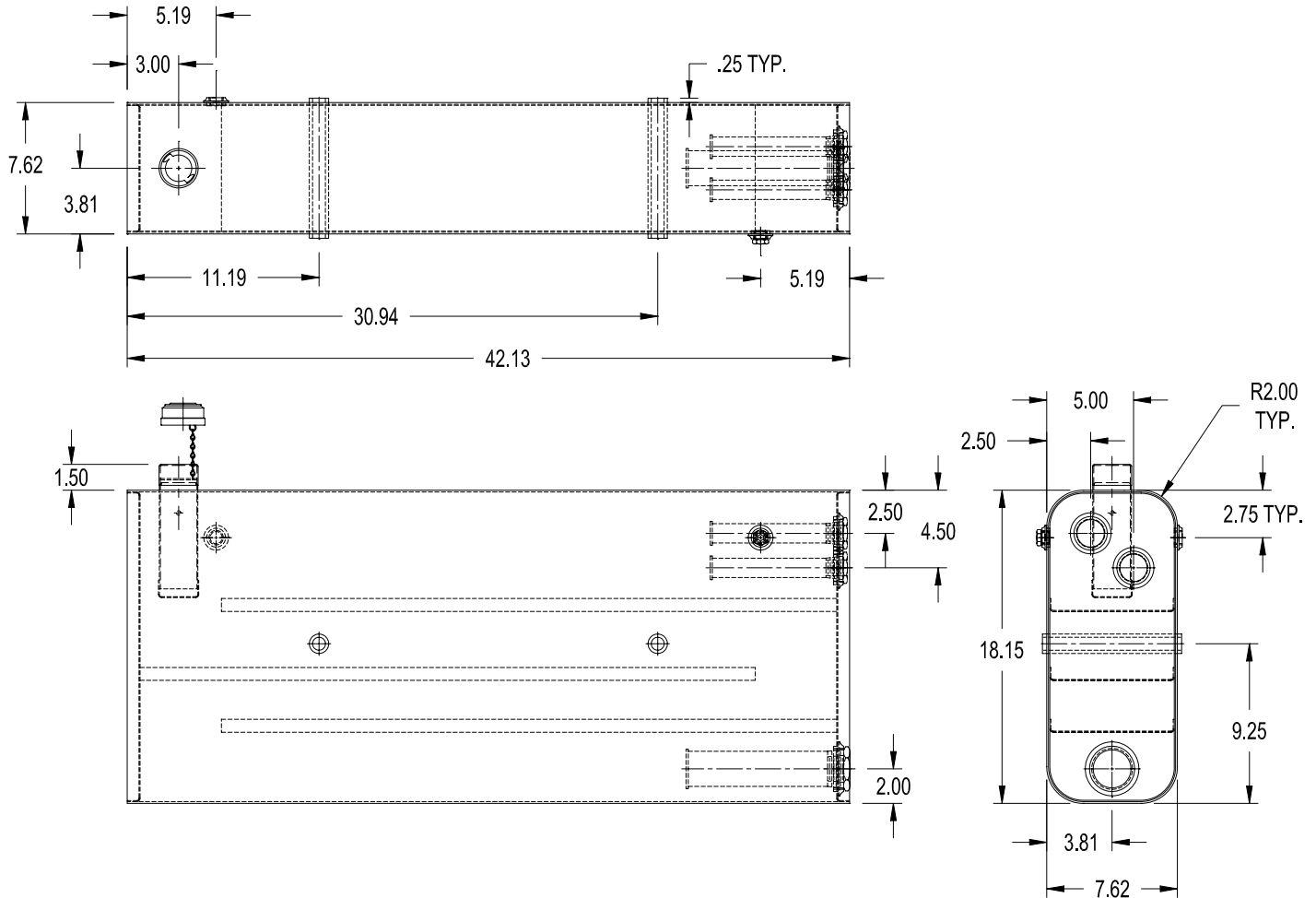
BOOM SUPPORT (TALL COMPARTMENTS)

TITAN SERIES – P/N: 738505001



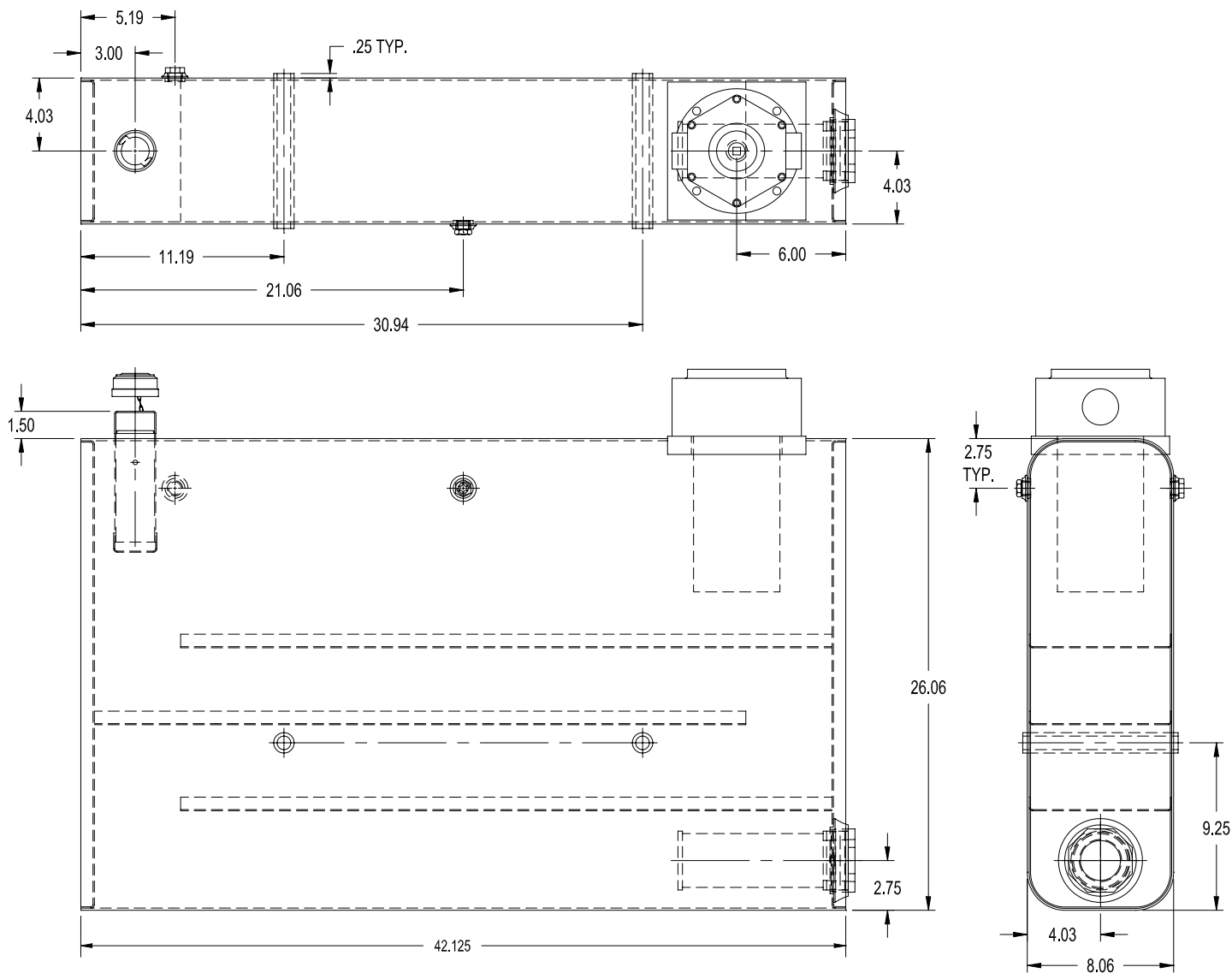
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	738506001	BOOM SUPPORT ASSY
2	6	021100000	WASHER SP LK 3/8
3	6	330371000	SCREW HX HD 3/8-16UNC X 1 LG GR8
4	6	330372000	NUT HX 3/8-16UNC

BULKHEAD RESERVOIR, 23 GALLON TITAN SERIES – P/N: 738498000

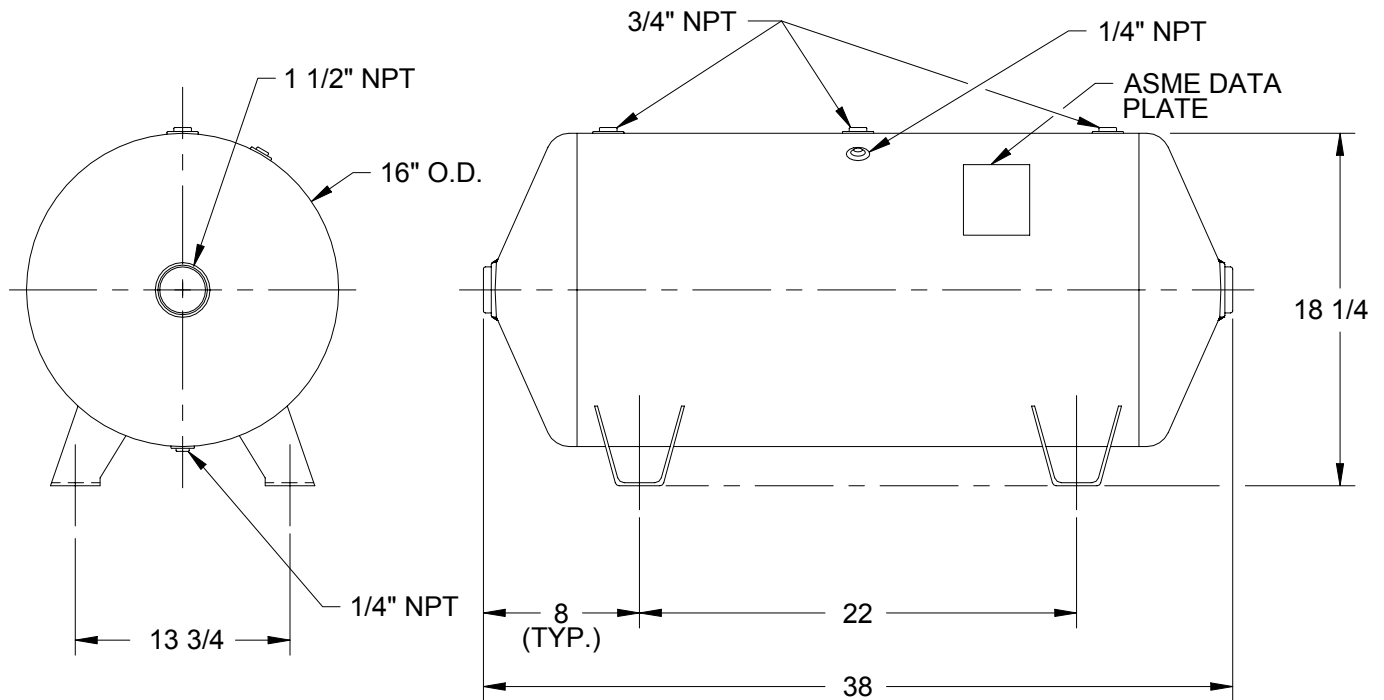


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	725552050	RESERVOIR BLKHD ASSY 23 GAL
2	1	750377000	FILTER & BRACKET W/FITTINGS

**BULKHEAD RESERVOIR, 36 GALLON
TITAN SERIES – P/N: 751095050**



AIR RECEIVER TANK, 30 GALLON TITAN SERIES – P/N: 750828000

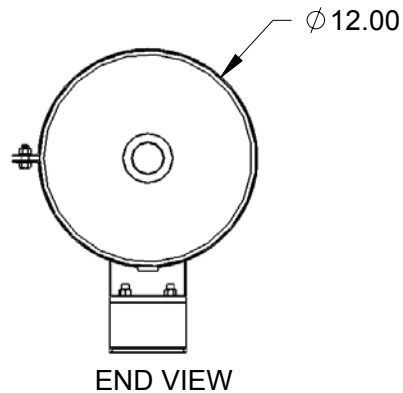
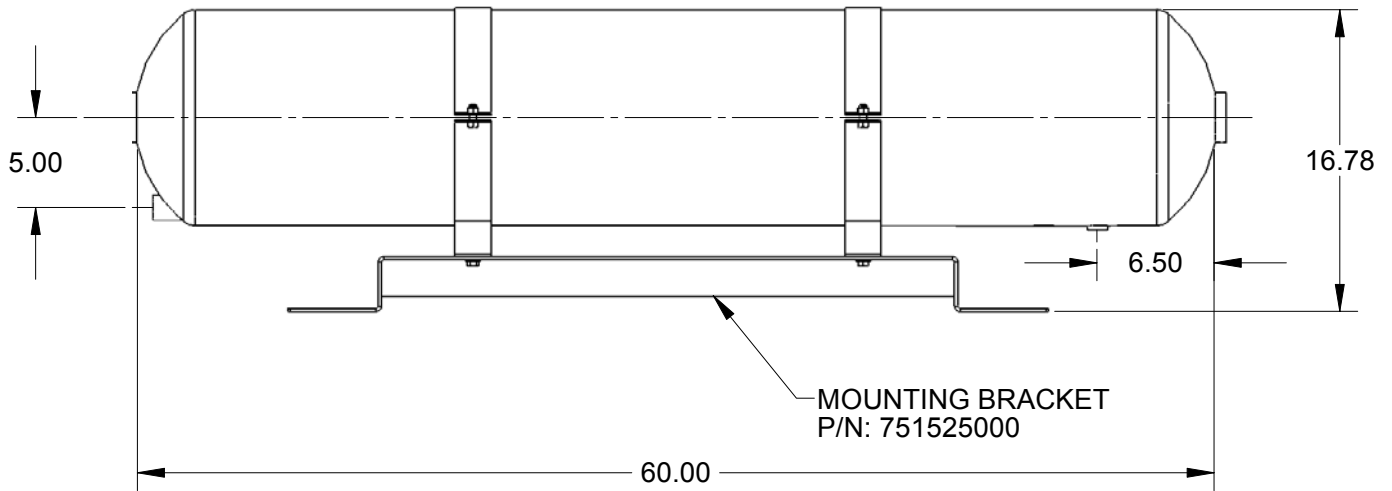


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	750200000	RECEIVER TANK, 30 GAL
2	2	750423000	REDUCER, PIPE THREAD
3	1	000209000	PLUG, PIPE 1/4
4	3	750426000	PLUG, 3/4 DRY SEAL
5	1	750715000	VALVE, BIB DRAIN
6	2	015600000	NUT, HX #10-32UNF
7	2	750202000	TUBE SUPPORT
8	2	750669000	PLASTIC PLUG, 3/4 NPT
9	1	751220100	VALVE RELEIF, 200 PSI, 1/4 NPT, ALUM
10	1	750670000	KIT FITTINGS

AIR RECEIVER TANK, 30 GALLON TITAN SERIES – P/N: 751524000

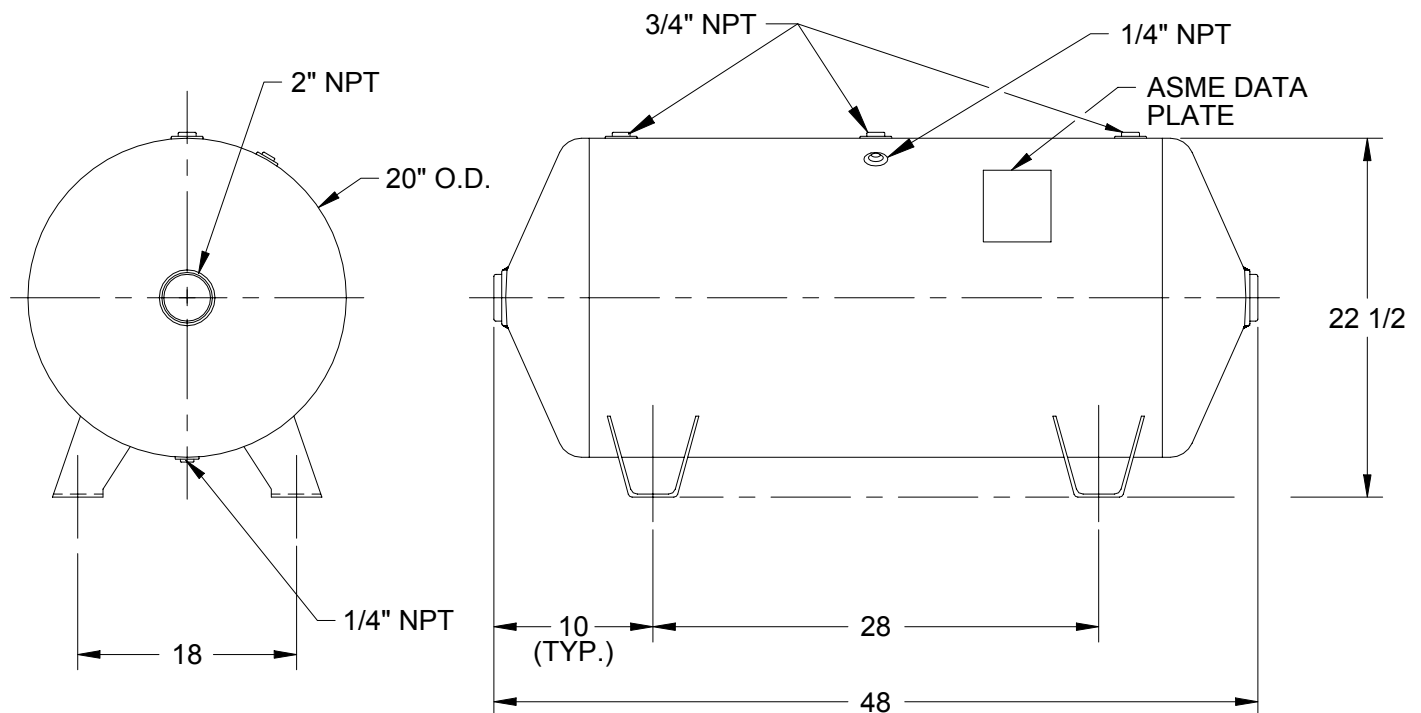
NOTE:

1. THIS RECEIVER TANK IS TO BE MOUNTED UNDER TRUCK CHASSIS.
2. FOR USE ON FORD F-550 ONLY.



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	751524000	TANK, 30 GAL HORIZ
2	1	751220100	VALVE RELIEF, 200PSI, 1/4NPT ALUM

AIR RECEIVER TANK, 60 GALLON TITAN SERIES – P/N: 750848000



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	750201000	RECEIVER TANK, 60 GAL
2	1	750205006	GAGE, 0-200 PSI AIR
3	1	750447000	FITTING, ELL GAGE
4	2	750423000	REDUCER, PIPE THREAD
5	1	360263000	ELL, 90 DEG -8 NPT/-14 JIC
6	1	751220100	VALVE, RELIEF, 200 PSI, 1/4 NPT ALUM
7	3	750426000	PLUG, 3/4 DRY SEAL
8	1	750463000	TUBE, ASSEMBLY
9	1	750715000	VALVE, BIB DRAIN
10	1	750428000	ELL, 90 DEG
11	2	002200000	SCREW, RD HD #10-32UNF X 3/4 LG
12	2	750191000	CLAMP, 5/8" ID
13	2	019800000	WASHER, SP LK #10
14	2	015600000	NUT, HX #10-32UNF
15	2	750490000	REDUCER, -32NPT/-24NPT(F)
16	2	750202000	TUBE SUPPORT

FIRE EXTINGUISHER TITAN SERIES – P/N: 750061000

TYPE:

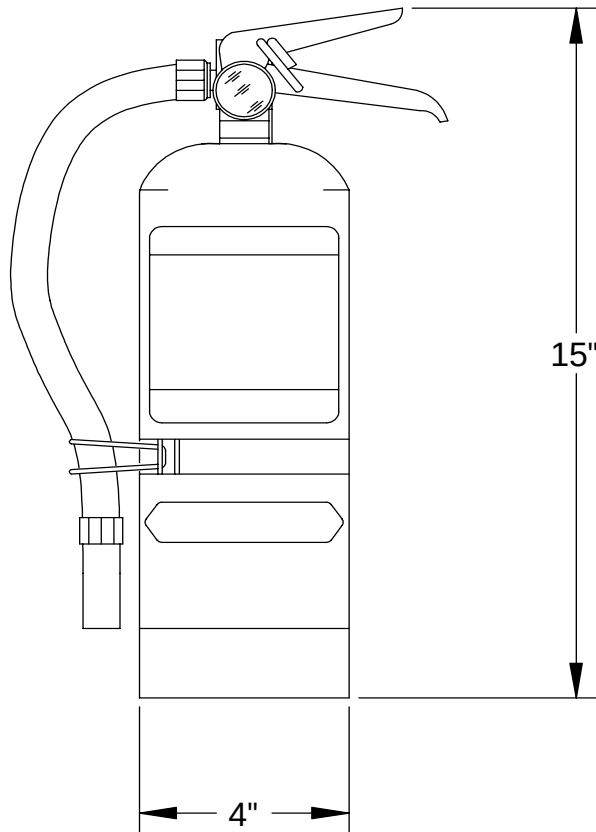
5 LB/LEVER SQUEEZE/HOSE & HORN/PRESSURE GAUGE
PER NATIONAL FIRE PROTECTION ASSOCIATION STD, NO.10
"PORTABLE FIRE EXTINGUISHERS."

SPECIFICATIONS:

- (A) UNDERWRITERS LABORATORIES (UL LISTED)
- (B) DRY CHEMICAL FIRE EXTINGUISHER CLASSIFICATION
2-A: 10-B:C. TESTED TO ANSI/UL 711 & ANSI/UL299.
- (C) 5 LB (2.27 KG) MULTI-PURPOSE DRY CHEMICAL
(AMMONIUM PHOSPHATE BASE)
- (D) SUITABLE FOR USE AT TEMPERATURE FROM
-65° F TO 120° F (54° C TO 49° C)

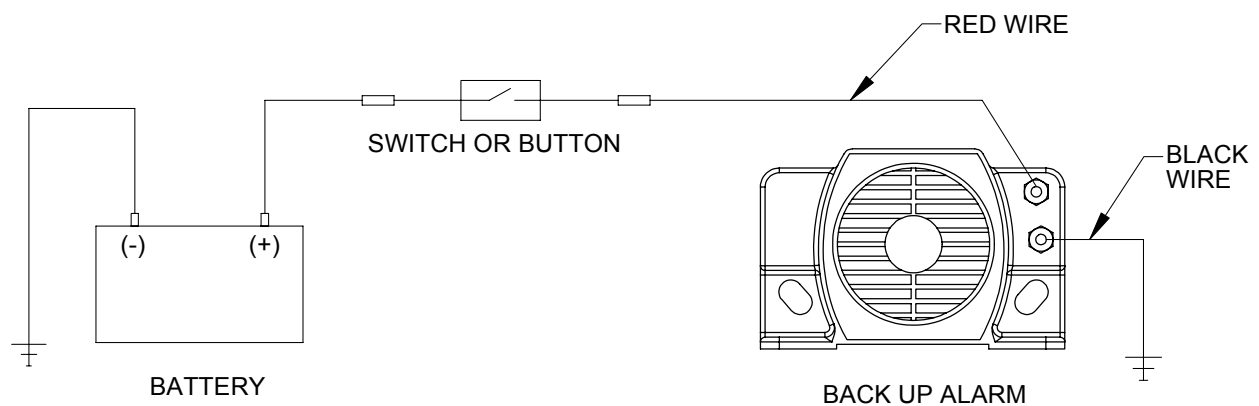
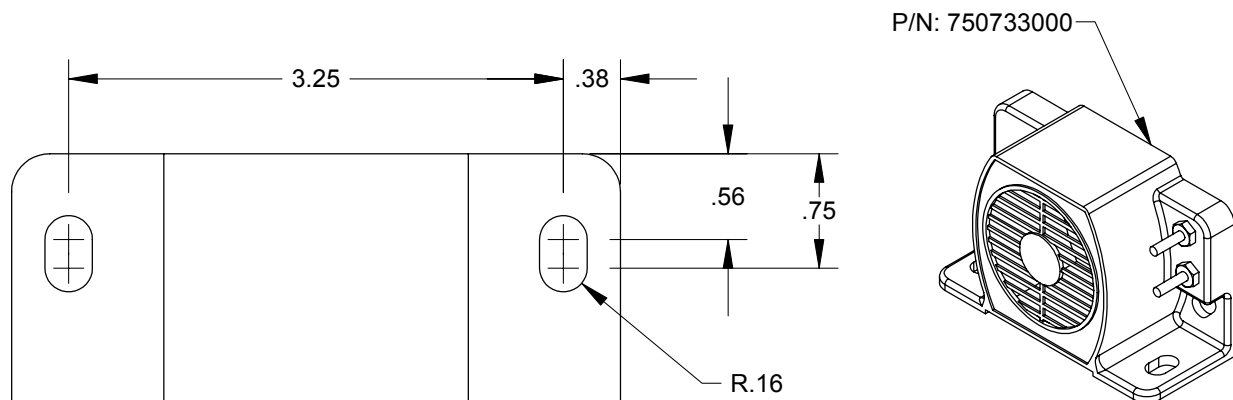
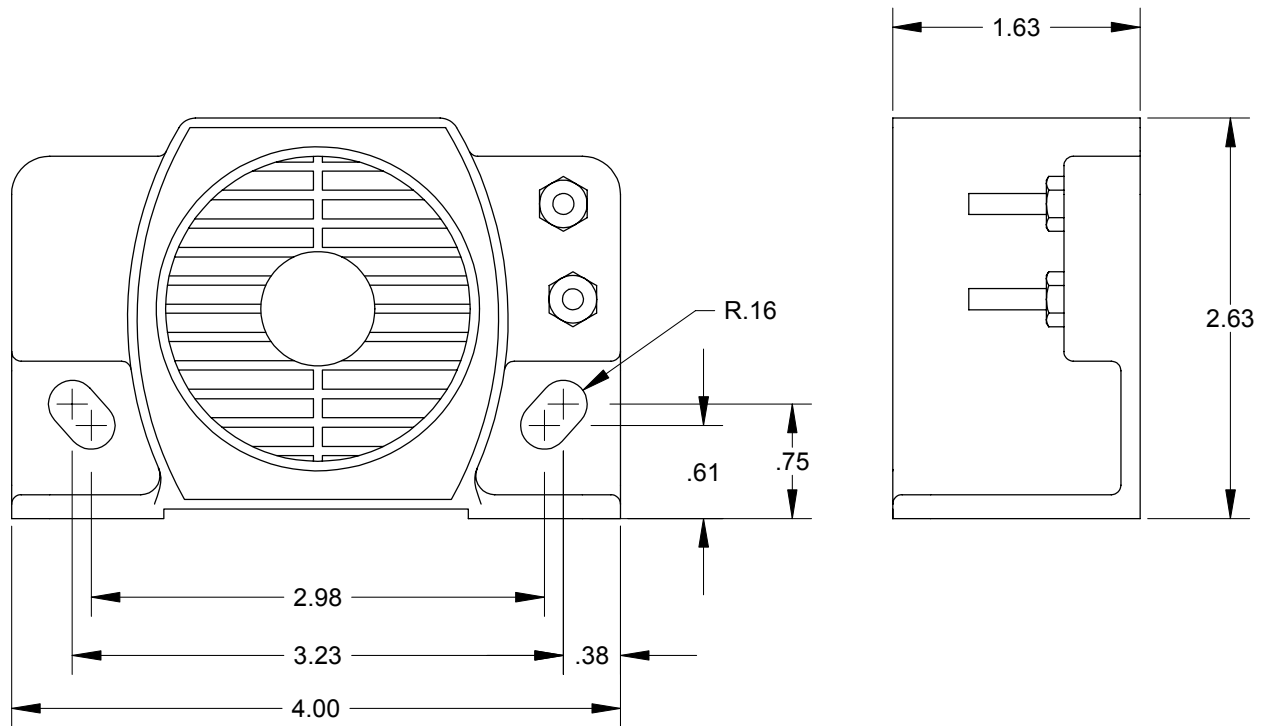
NOTE:

EXTINGUISHER TO COME WITH OWNER MANUAL FOR HAND PORTABLE FIRE
EXTINGUISHERS.



BACK-UP ALARM

TITAN SERIES – P/N: 750681000



BACK-UP ALARM

TITAN SERIES – P/N: 750681000

DESCRIPTION

BACK-UP SAFETY ALARM MEETS OR EXCEEDS SAE J99 4b

MODEL: TONEMASTER 380 LIGHT DUTY ALARM

SERIES: 900-001

VOLUME: 102 Db

VOLTAGE: 12/24 VDC

PULSE RATE: 90/MINUTE

HEIGHT: 2.63"

WIDTH: 4

DEPTH: 1.63"

WEIGHT: .6 LBS

FREQUENCY: 100 HZ

MOUNTING: (2) BOLTS 1/4-20UNC X 1 1/2 LG

DRILL (2) .31 DIA HOLES ON 3 1/4 CENTERS

POWER CONNECTION: 2-18", 16 GA. LEADS; RED LEAD TO POSITIVE;
BLACK LEAD TO GROUND.

MOUNTING INSTRUCTIONS:

1. DRILL TWO HOLES FOR 1/4" BOLTS 3 1/8" BETWEEN CENTERS.
2. MOUNT ALARM TO VEHICLE OR BRACKET.
3. UNIT MAY BE CONNECTED DIRECTLY INTO THE BACK-UP LIGHT CIRCUIT, IF NOT AVAILABLE, MOUNT A SWITCH SUCH THAT IT OPERATES WHEN THE VEHICLE IS PLACED IN REVERSE. APPLY VOLTAGE 12 THRU 24 VDC FOR MODEL 380 VIA SWITCH TO THE RED LEAD, CONNECT THE BLACK LEAD TO GROUND. ALARM WILL SOUND EACH TIME WHEN VEHICLE PLACED IN REVERSE.

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	750733000	BACK-UP SAFETY ALARM
2	1	750866000	SCREW PN HD #8 X 3/4 LG SELF TAPPING
3	1	000302000	TERMINAL WIRE
4	1	000300000	TERMINAL WIRE
5	3 FT	800562000	WIRE, 18 GA 600V 1C (BLUE)
6	2 FT	800590000	WIRE, 16 GA 600V 1C (BLACK)

NOTES

BODY PREVENTIVE MAINTENANCE TITAN SERIES

PREVENTIVE MAINTENANCE RECOMMENDATIONS FOR EXTERIOR SURFACES ON TRUCK SERVICE BODIES

PAINT FINISH PREVENTIVE MAINTENANCE INSTRUCTIONS

The paint finish on Auto Crane products can become damaged during normal use when chipped, scratched, exposed to harsh chemicals, cleaned with high pressure washers, etc. During periods when the truck is exposed to salt or other corrosive chemicals, the truck should be washed weekly. The paint finish should be inspected when washed or at least monthly. Any exposed bare metal or visible rust should be repaired immediately. The repairs should be performed in the damaged area by following steps 1-5 in the PAINT PREPARATION INSTRUCTIONS section.

PAINT PREPARATION INSTRUCTIONS

The following paint process steps should be used by Auto Crane distributors when top coating bodies that were primed by Auto Crane:

1. Clean all surfaces to be top coated so dirt, oil, and other contaminants do not get embedded in the primer when sanded.
 - a. Wash with a mild detergent in warm water.
 - b. Rinse with clean water.
 - c. Wipe dry with a clean cloth.
2. Scuff sand all primed areas to be top coated with 320 grit sandpaper or an equivalent abrasive. Sand any areas with visible rust to bare metal.
3. Solvent clean all areas to be top coated to remove sanding residue. Wipe dry with a clean cloth to remove any remaining residue.
4. Re-prime the following areas to a minimum 2 mil dry film thickness per the primer manufacturer's instructions. The primer must be compatible with PPG Spectracron 573 epoxy primer.
 - a. All bare metal.
 - b. All exposed corners and narrow edges, such as on doors, door openings, drip rails, and bumpers. This is necessary because excessive primer tends to get removed when sanding corners and narrow edges.
 - c. All areas to be top coated if the body has been stored in an outside environment for more than 3-6 months. This is necessary because more primer tends to get removed when sanding a primed-only body that has been exposed to the sun and outside environment for an extended period.
5. Apply a minimum of 2 mil dry film thickness topcoat per the manufacturer's instructions within 24 hours of completing steps 1-4. The top coat paint must be compatible with PPG Spectracron 573 epoxy primer. The final primer and topcoat should have approximately a 4 mil dry film thickness. Allow paint to fully cure before delivery to customer.

**AUTO CRANE SERVICE TRUCK BODIES
LIMITED WARRANTY**

1.1 Scope of Warranty Coverage. Upon the terms and subject to the conditions set forth in this limited warranty:

(a) AUTO CRANE (referred to herein as “**AUTO CRANE**” or the “**Manufacturer**”) warrants to each initial end user customer (a “**Purchaser**”) relating solely to the body, hinges, and applicable paint of a new Auto Crane Service Truck Body (the “**Product**”) that:

(i) the Product will not rust through the metal, and the hinges will not fail to operate, under normal working and service conditions, for a period of five (5) years from the date the Product is shipped from AUTO CRANE (the “**Product Warranty Term**”). For purposes of this Section 1.1(a)(i), the term “rust through” means a hole rusted all the way through the metal service truck body.

(ii) the Standard Paint or Titan Armor Paint on the Product will not fail due to blistering, adhesion or surface rust, under normal working and service conditions, for a period of eighteen (18) months for Standard Paint (the “**Standard Paint Warranty Term**”) or five (5) years for Titan Armor Paint from the date that the Product is shipped from Auto Crane (the “**Titan Armor Paint Warranty Term**”, and together with the Standard Paint Warranty Term and the Product Warranty Term, the “**Warranty Term**”). For purposes of this Section 1.1(a)(ii), the term “surface rust” means rust caused by paint degradation. In no event shall “surface rust” include peeling paint caused by impact, scratches, or damage to bare metal surfaces. Additionally, Purchaser should be aware that “Titan Armor Paint” is a proven marine based industrial product rather than an automotive product; as a result, the gloss and surface texture might differ from other commonly-used paint products and will not be comparable to automotive finish smoothness or aesthetic. For avoidance of doubt, any such aesthetic complaints in Titan Armor Paint are not covered by this Limited Warranty.

(iii) A Purchaser shall be eligible for an additional eighteen (18) months of coverage in addition to the Product Warranty Term and the Standard Paint Warranty Term, or an additional ten (10) years in addition to the Titan Armor Paint Warranty Term (also referred to as the “**Standard (+) PLUS benefit**”) only if the Purchaser (i) complies with Section 1.2(a) and (ii) registers the Product within eighteen (18) months of the Product’s ship date at myproduct.autocrane.com.

(b) Notwithstanding the foregoing, this warranty does not cover components damaged by accident, abuse, misuse, neglect, untrained operators, collision, overloading, modification, disassembly, rework, misapplication, improper installation or storage, lack of cleaning or maintenance, or improper service. This warranty does not cover removal or reinstallation of the service truck body or components, or normal wear and tear and loss of functionality due to aging of the Product (which may include but is not limited to dents, chips, corrosive chemical attack to the paint, discoloration or fading caused by customer or dealer applied components or decals).

1.2 Eligibility of Warranty Coverage.

(a) A Purchaser shall be eligible for warranty coverage under Section 1.1 of this Limited Warranty during the Warranty Term only if:

(i) Purchaser maintains, or causes to be maintained, the Product according to commercially reasonable standards and any applicable materials or procedures made available to Purchaser relating to the maintenance of the Product and utilizes the Product for the purposes for which it was created; and

(ii) No repairs or alterations have been made by any party other than AUTO CRANE, including Purchaser, unless otherwise authorized in writing by AUTO CRANE.

1.3 Transferability of Warranty.

(a) This warranty is transferable only from the Purchaser to the first subsequent transferee (the “**Transferee**”) of the Product from Purchaser upon (i) written notification to AUTO CRANE and (ii) registration of the transfer, both within 30 days of such Product transfer.

(b) Upon satisfaction of transfer requirements set forth in Section 1.3(a), the Transferee shall succeed to all the rights and obligations of the Purchaser set forth in this Limited Warranty.

1.4 **Certain Limitations on Scope of Warranty Service.**

(a) Any obligation of AUTO CRANE under this warranty, statutory or otherwise, is limited to the repair of solely the Product, and no other parts of the service truck body, at its factory or Authorized Service Centers. Notwithstanding the foregoing, if field service or repair is performed by AUTO CRANE at the request of the Purchaser and no defect is found with material or workmanship of the Product, the Purchaser shall compensate AUTO CRANE for its time and expenses within thirty (30) days of delivery of an invoice relating to the same. AUTO CRANE will not provide any cash payment or credits for defective materials or workmanship.

(b) Any travel time, transportation charges, freight charges, or similar costs incurred by AUTO CRANE in connection with the repair of defective parts, shall be the responsibility of the Purchaser. If applicable, AUTO CRANE shall invoice Purchaser for the total amount of such charges within sixty (60) days of fulfilling its duties under this warranty, payable within thirty (30) days of delivery of such invoice. In no event shall AUTO CRANE be liable for bills for service, labor or other expenses that have been incurred by the Purchaser without approval or prior authorization by AUTO CRANE for inspection, maintenance, or repair of the Product.

(c) All repair quotes submitted to AUTO CRANE must be itemized to include parts, materials, labor hours, and the applicable labor rate(s). Any Purchaser (or dealer or distributor, if applicable) shall supply part numbers for paint touch up, repair, or any other warranty measures.

1.5 **Limitations of Liability.** AUTO CRANE shall in no event be liable for punitive, special or consequential damages relating to the Product or this Warranty. AUTO CRANE makes no warranty in respect to third-party accessories, upgrades, or additions to the Product.

1.6 **Improving Product.** AUTO CRANE reserves the right to improve the Product through changes in design or materials as it may deem desirable or necessary without being obligated to incorporate, upgrade, or otherwise modify previously manufactured products.

1.7 **Limitations of Warranty.**

(a) THE WARRANTY SET FORTH ABOVE IS THE ONLY EXPRESS WARRANTY. AUTO CRANE HEREBY DISCLAIMS AND EXCLUDES ANY OTHER EXPRESS, IMPLIED, OR STATUTORY WARRANTIES, ARISING BY OPERATION OF LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE, OF TRADE, OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY.

(b) ANY IMPLIED WARRANTY WHICH BY LAW MAY NOT BE EXCLUDED IS LIMITED IN DURATION TO ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THE PRODUCT.

(c) This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

(d) This warranty is valid only in the U.S.A. and Canada. For warranty outside the U.S.A. and Canada contact your nearest AUTO CRANE Distributor.

1.8 **No Modifications to Warranty.** No AUTO CRANE dealer, distributor, agent or employee is authorized to make any modification, extension or addition to this warranty.

1.9 **How to Apply for Warranty Coverage.**

All claims are handled by contacting your nearest Auto Crane Dealer. For questions, please contact customer support: accustomersupport@ramseyindustries.com.

Visit [Dealer Locator - Auto Crane](#) for Auto Crane Dealer locations and contact information.

Additional warranty, service support, product information, and parts information can be found on www.autocrane.com.

