



ADRIAN STEEL®

Cargo Management Solutions for Commercial Vehicles

TANK RACK, 1-30LB VERTICAL

PRODUCT WEIGHT

15 LBS

WIDTH X DEPTH X HEIGHT

13" X 11" X 21"

CAPACITY

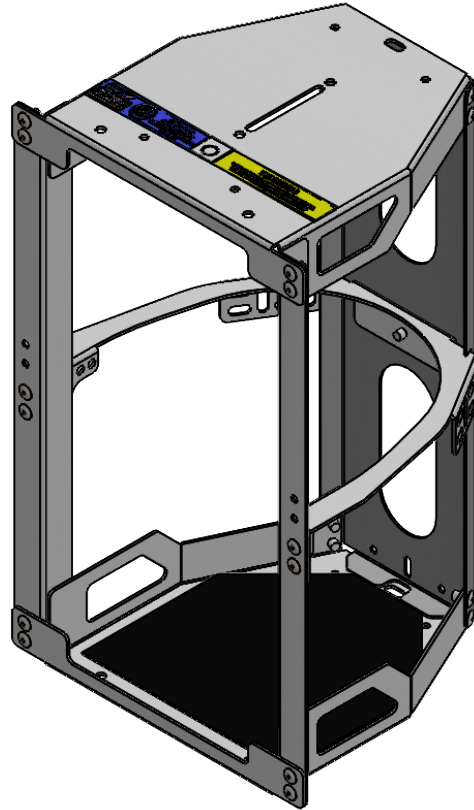
**1-30LB REFRIGERANT
TANKS**

COLOR

GRAY OR BLACK

CATALOG NUMBER

**130VTR
130VTRB**



PRODUCT FEATURES

THIS TANK RACK IS DESIGNED TO CARRY 1 30LB REFRIGERANT RECOVERY TANKS.

THIS PRODUCT IS NOT VEHICLE SPECIFIC, THE KIT HAS FASTNERS INCLUDED FOR ATTACHING TO THE VEHICLE AND TO SHELFVING END PANELS.

TANK RACK STRAPS MUST BE USED AT ALL TIMES.

THIS TANK RACK CAN BE STACKED WITH OTHER SINGLE VTR TANK RACKS,AS WELL AS ANGLED "TR" TANK RACKS.

SOME DRILLING MAY BE REQUIRED DEPENDING ON THE APPLICATION.

SEE PAGE 2 FOR APPLICATION NOTES, ACCESSORIES AND OTHER PRODUCTS THAT WORK WITH THIS UNIT.



TANK RACK, 1-30LB VERTICAL

CATALOG NUMBER 130VTR

PRODUCT APPLICATION

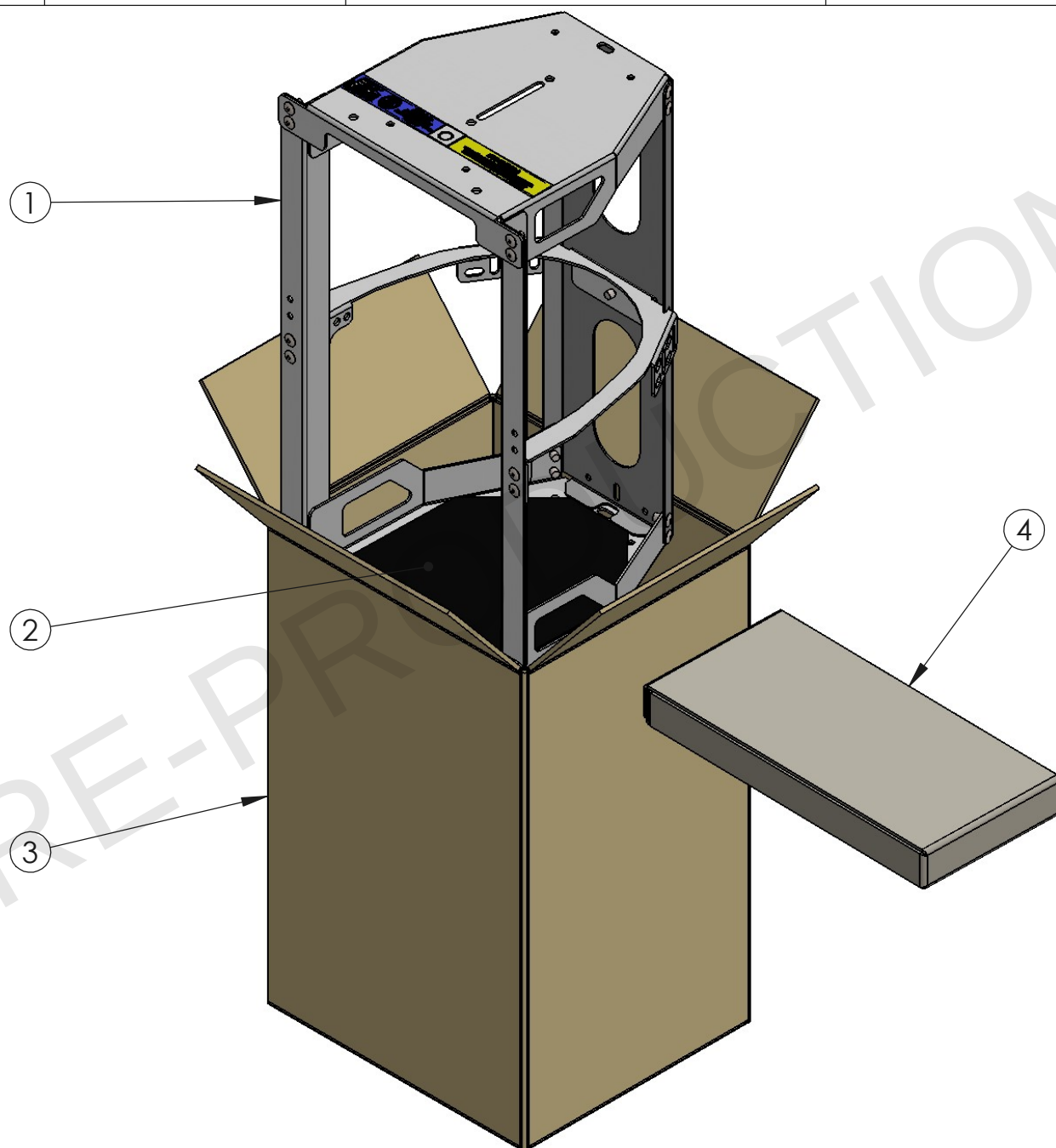
***THIS TANK RACK MOUNTS IN COMMERCIAL VEHICLES TO HOLD 1 30LB
REFRIGERANT RECOVERY TANKS***

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

<i>CATALOG NUMBER</i>	<i>DESCRIPTION (smart)</i>
130VTR	TANK RACK,1-30LB VERTICAL TANK RACK
150VTR	TANK RACK,1-50LB VERTICAL TANK RACK
230VTR	TANK RACK,2-30LB VERTICAL TANK RACK
250VTR	TANK RACK,2-50LB VERTICAL TANK RACK
130TR	TANK RACK, 1-30LB TANKS
150VTR	TANK RACK, 1-50LB TANKS
230TR	TANK RACK,2-30LB TANKS
250TR	TANK RACK,2-50LB TANKS
TRSHelf30	TANK RACK 30LB, SHELF
TR4SHelf30	TANK RACK 30LB, 4" SHELF

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	77743-G&77743-B	130VTR RIVET ASSY GRAY OR BLK	1
2	77737	SKID PLATE,VTR250&VTR230	1
3	CRT77743	CARTON, 77743	1
4	HDW130-150VTR	HARDWARE FOR VTR 130-150	1



printed document is uncontrolled

ACTIVITY DESCRIPTION:

BOXING INSTRUCTIONS

THIS WORK INSTRUCTION SHEET IS FOR PROCESS OPERATION REFERENCE ONLY! FOR COMPLETE DIMENSIONAL AND PROCESS REQUIREMENTS REFER TO THE PRODUCT PRINT(S) FOR THIS PART/ASSEMBLY.

THIS WORK INSTRUCTION SHEET IS NOT TO BE DISTRIBUTED TO PARTIES OUTSIDE OF THE ADRIAN STEEL ORGANIZATION OR PUBLISHED IN OR ON ELECTRONIC FORUMS THAT MAY BE ACCESSED BY THE GENERAL PUBLIC.

WORK INSTRUCTIONS

DO NOT SCALE THIS DRAWING!



ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

906 James St.
Adrian, MI 49221
517.265.6194

Part Description: **Name** BOX INS FOR 130VTR

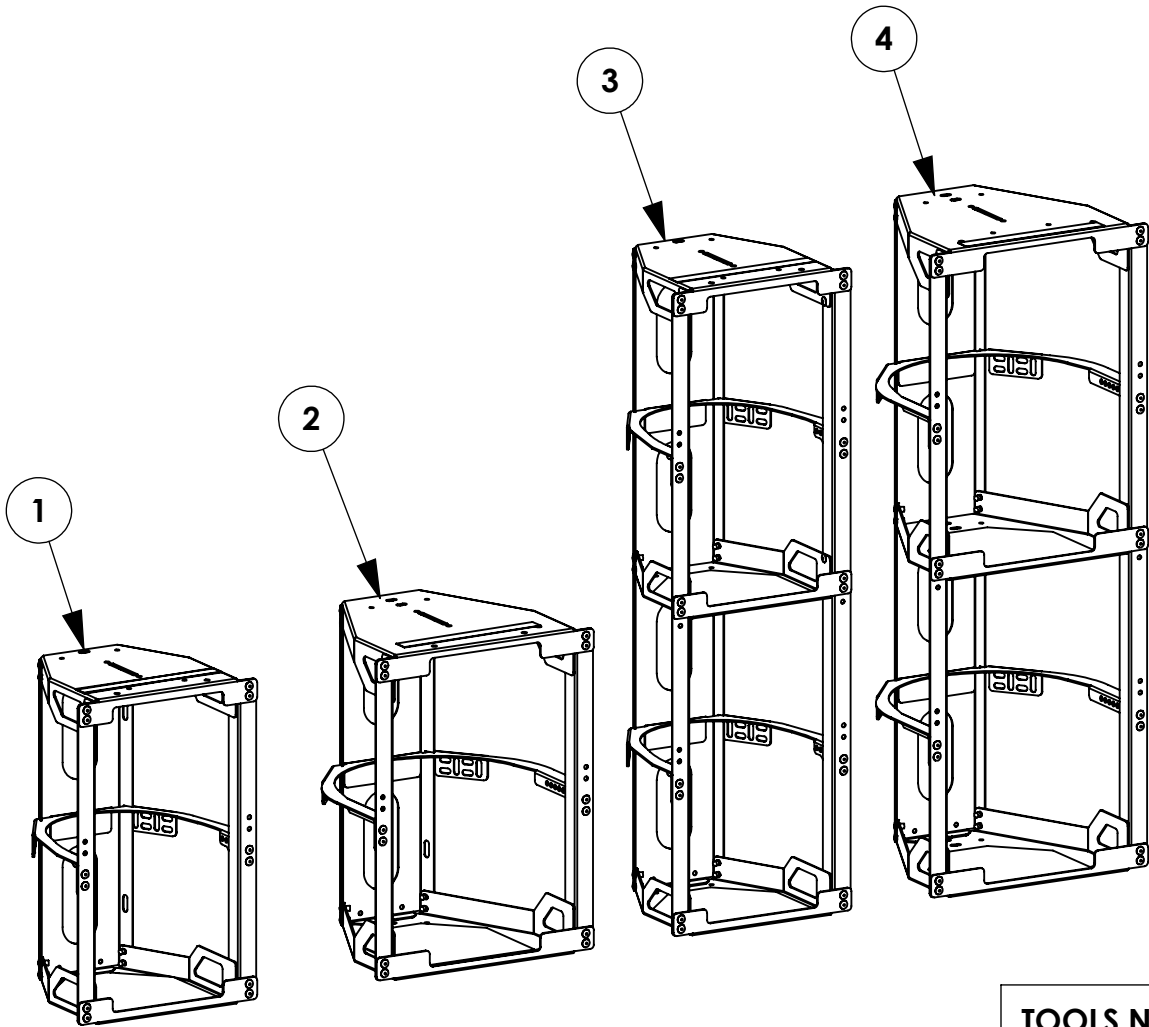
Part Number: **BOX77743**

REVISION LEVEL:

A

<i>INSTR. NUMBER</i> : INSVTR		<i>PG:</i> 1	<i>REV:</i> C	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
<i>PART NUMBER</i> • 130VTR • 150VTR • 230VTR • 250VTR				1	130VTR	TANK RACK,1-30LB VERTICAL	1
				2	150VTR	TANK RACK,1-50LB VERTICAL	1
				3	230VTR	230VTR TANK RACK	1
				4	250VTR	250VTR VERTICAL TANK RACK	1
<i>PART DESC.</i> • TANK RACK, 1-30LB TANK • TANK RACK, 1-50LB TANK • TANK RACK, 2-30LB TANK • TANK RACK, 2-50LB TANK							

- PART NUMBERS ARE PAINTED GRAY
- FOR BLACK TANK RACKS, ADD "-B" TO PART NUMBER



- TOOLS NEEDED:**
- 1/2" SOCKET
 - 7/16" SOCKET
 - 1/2" DRILL BIT
 - DRILL
 - PLUSNUT TOOL

GET TO KNOW THE VEHICLE - AT THE BEGINNING OF ANY INSTALLATION, CHECK THE LOCATION OF THE FUEL TANK, FUEL LINES, BRAKE LINES, HIGH VOLTAGE BATTERIES AND WIRING HARNESSES TO AVOID INJURY OR PROPERTY DAMAGE FROM TOOL CONTACT.

SEAL ALL EXTERIOR HOLES - ALL INSTALLATION HOLES SHOULD BE SEALED WITH BUTYL TAPE OR SILICON TO PREVENT WATER AND EXHAUST GASES FROM ENTERING THE VEHICLE.

CONTROL DRILL DEPTH - TO AVOID DAMAGE TO THE VEHICLE, USE A DRILL STOP OR CLEARED STEP BIT WHEN DRILLING INSTALLATION HOLES.

ALWAYS ADD PRIMER - WHEN ADDING INSTALLATION HOLES BE SURE TO USE A SELF-ETCHING PRIMER TO PREVENT CORROSION, FASTENER FAILURE AND INJURY.

MOUNTING POINTS MUST HAVE METAL-TO-METAL CONTACT - USE PROVIDED MOUNTING SPACERS TO ACCOMMODATE FOR VEHICLE FEATURES, CARPET OR SUBFLOORS.

PROVIDE CLEARANCE FOR SPACERS - IF THE INSTALLATION VEHICLE CONTAINS A CARPET OR SUBFLOOR, USE A 1-3/16" DIAMETER CARPET CUTTER (P/N: 31183-0) AT ALL MOUNTING LOCATIONS TO OPEN UP ROOM FOR SPACERS.

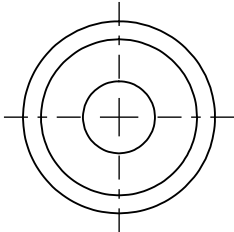
CHECK SPACER ORIENTATION - BE SURE THAT THE INDENT IN THE SPACER COVERS THE PLUSNUT HEAD; THIS ENSURES THE MOST METAL-TO-METAL CONTACT AND REDUCES VIBRATION.

PLUSNUT INSTALLATION - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

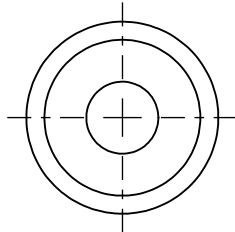
THRU-BOLT CLEARANCE - WHEN USING A THRU-BOLT AT ANY MOUNTING LOCATION, BE SURE THAT YOUR HOLE HAS 1/16" CLEARANCE.

FASTENERS USED

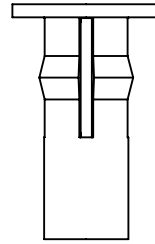
BAG REFERENCE: BAGVTR



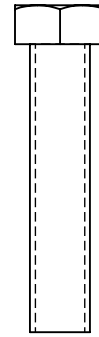
**03927-1
SPACER, FLR,
1010, 11/35, ZP
QTY: 3**



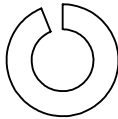
**03927-2
SPACER, FLR
1010, 11/16 ZP
QTY: 3**



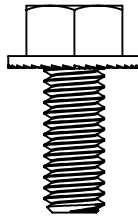
**FAS0091
PLUSNUT, 5/16
QTY: 4**



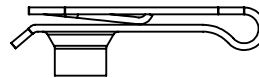
**FAS0092
SCREW, HEX HD,
5/16-18 x 1.50
Zn PLATE, G8
QTY: 4**



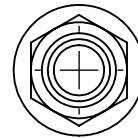
**FAS0098
WASHER, LOCK, SPLIT,
5/16, ZINC PLATE
QTY: 5**



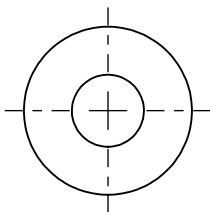
**FAS0438
SCREW, HFLNG,
5/16-18 X .75, ZP
QTY: 2**



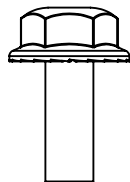
**FAS0994
U-NUT
1/4-20
QTY: 3**



**FAS0440
NIT, HEX NLK FLG,
5/16-18, ZP
QTY: 4**



**FAS0086
WASHER, FLAT USS,
5/16, ZP
QTY: 8**



**FAS0018
SCREW, HFLNG
1/4-20 X .62
QTY: 3**

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BEST PRACTICE: ORGANIZE ALL HARDWARE PCS. & VERIFY THAT ALL ARE ACCOUNTED FOR

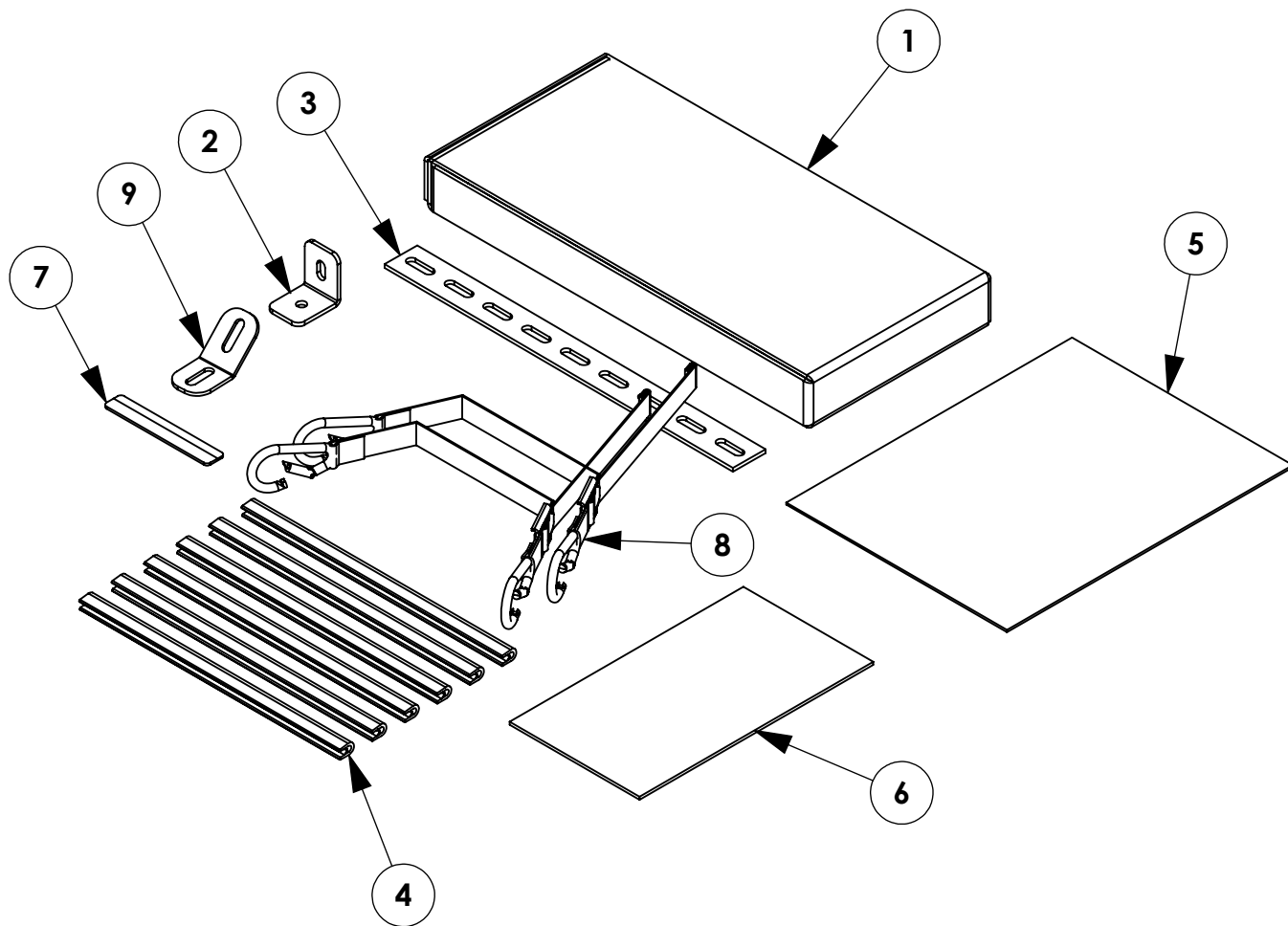
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HARDWARE USED

HDW KIT REFERENCE: HDWVTR230-250

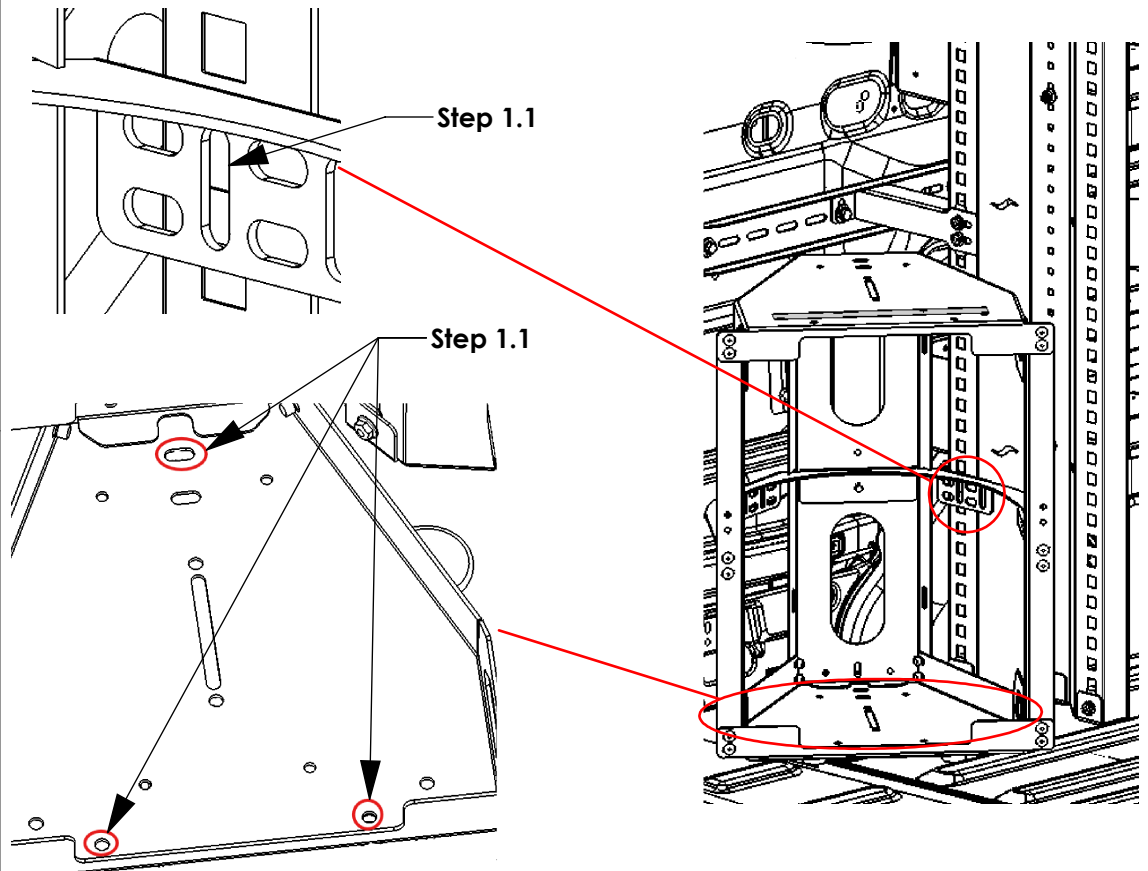
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CRT06987-A	CARTON HARDWARE FOR KD	1
2	MB118	MOUNT ANGLE 1-1/2" / GALV	1
3	MB120	MOUNTING STRAP	1
4	65409	Trim,Pinchweld Blue 10"	6
5	INSVTR	Install Instructions, Tank Racks	1
6	BAGVTR	BAG FOR VERTICAL TANK RACKS	1
7	64335	DECAL, WARNING, TR	1
8	65406	STRAP 25", TANK RACK	2
9	46768-G	WING BRACKET, UPPER, TRANSIT	1



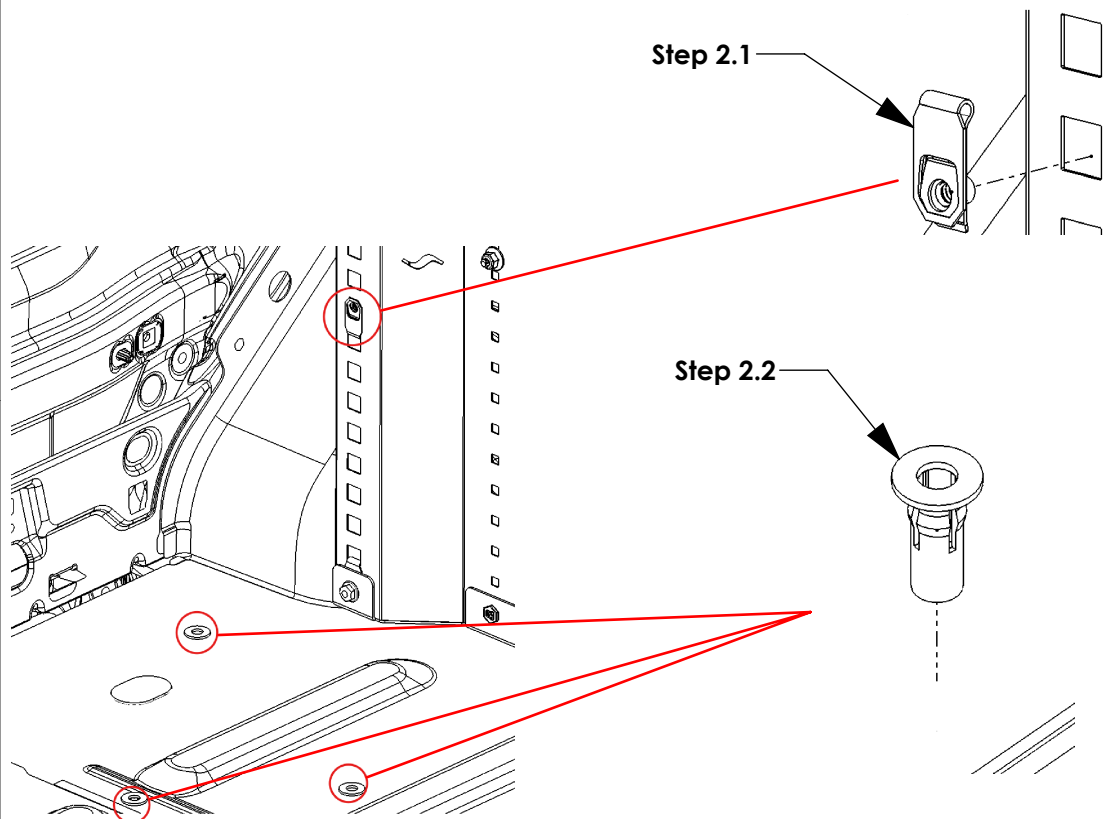
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MOUNTING TANK RACK TO END PANEL

Step 1.1
PLACE TANK RACK AGAINST END PANEL, LOCATE MOUNTING HOLES ON END PANEL. MARK HOLE LOCATION ON THE FLOOR DRILL HOLES FOR PLUSNUTS



Step 2.1
AFTER MARKING LOCATION PUSH FAS0994 INTO END PANEL SLOT



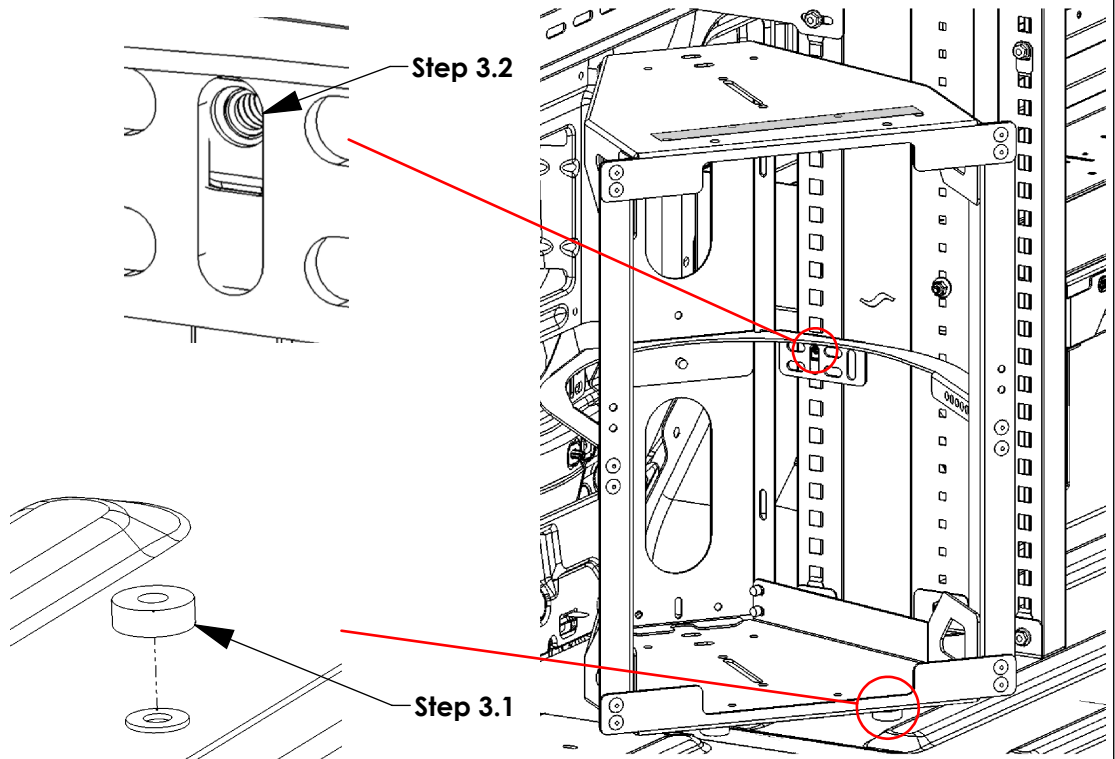
Step 2.2
AFTER DRILLING 1/2" HOLE PLACE (3) FAS0091 INTO HOLE, USE PLUSNUT TOOL TO INSTALL PLUSNUT

1/2" DRILL BIT
DRILL
PLUSNUT DRILL

MOUNTING TANK RACK TO END PANEL

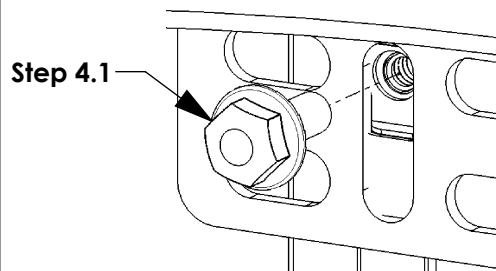
Step 3.1
PLACE SPACERS
OVER PLUSNUTS
AS REQUIRED
ON LOCATION
AND VEHICLE
FLOOR RIB
HEIGHT

Step 3.2
PLACE TANK
RACK OVER
SPACERS, AND
ALIGN WITH
END
PANEL SLOTS



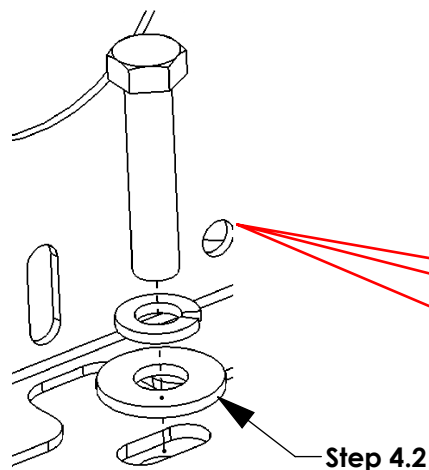
Step 4.1
FULLY TIGHTEN
FAS0018 TO
SECURE THE
TANK RACK TO
THE END PANEL

7/16" SOCKET
DRILL



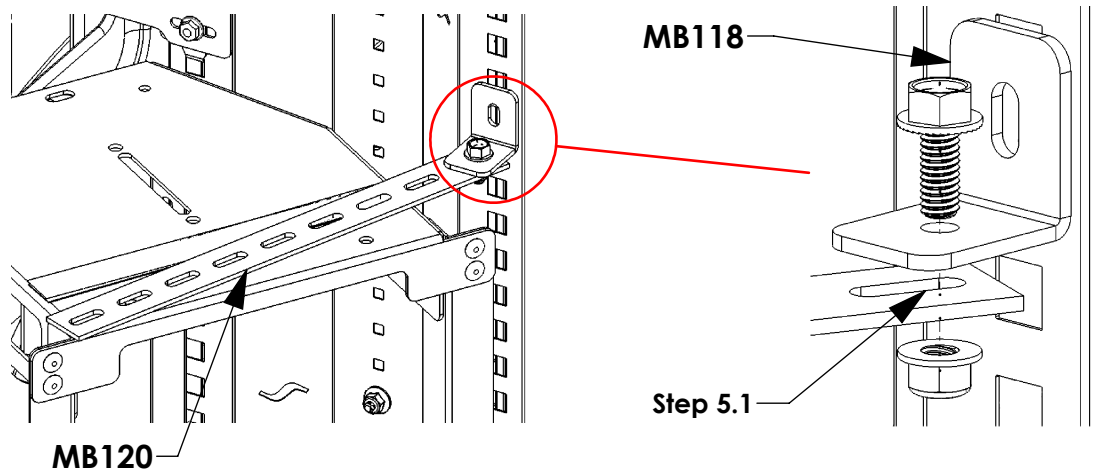
Step 4.2
FULLY TIGHTEN
PLACE (3)
FAS0092,
(3) FAS0098, &
(3) FAS0086
THROUGH HOLE
TO PLUSNUTS

1/2" SOCKET
DRILL

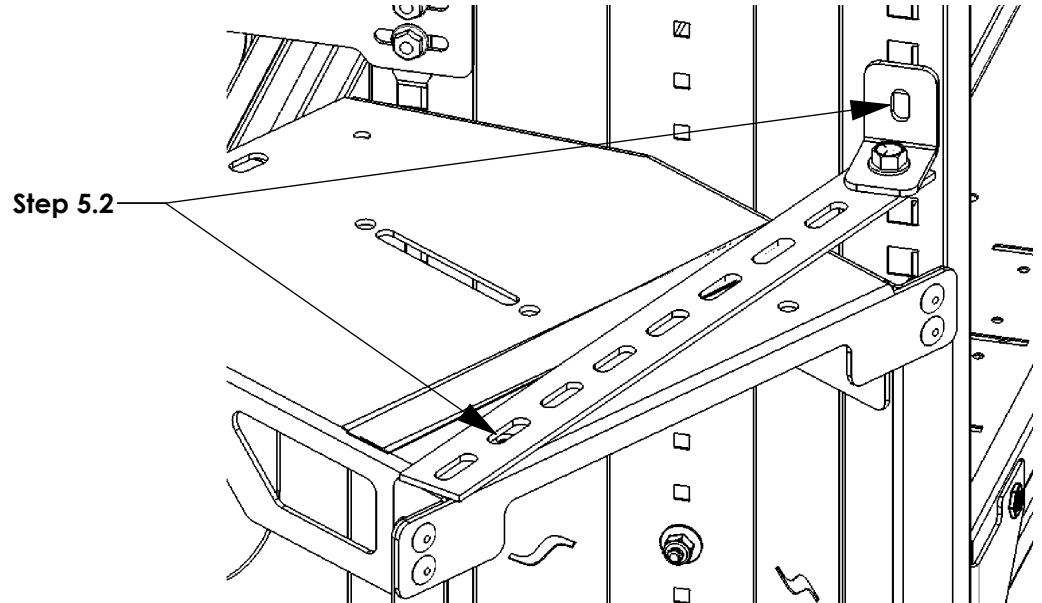


MOUNTING TANK RACK TO END PANEL

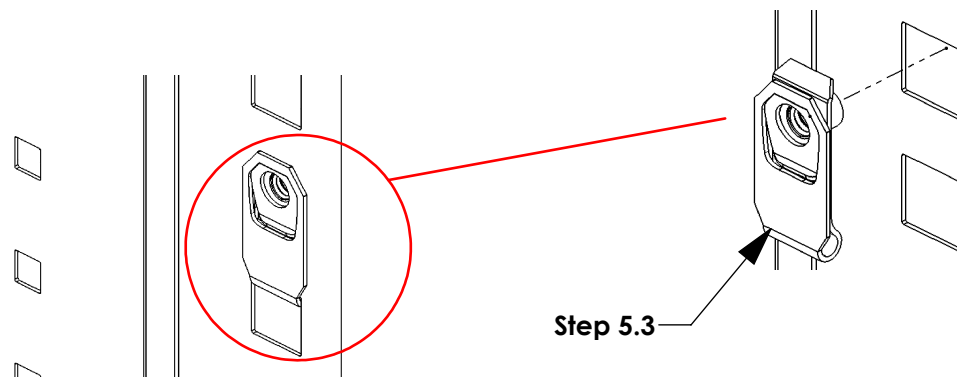
Step 5.1
LOOSELY TIGHTEN
(1) FAS0438 &
(1) FAS0440, TO
HOLD MB120 AND
MB118 TOGETHER.



Step 5.2
PLACE MB120 &
MB118 ON TOP
OF THE TANK
RACK, LOCATE
HOLE ON TOP
PLATE AND
MARK SLOTS ON
END PANEL



Step 5.3
INSERT FAS0994
INTO MARKED
END PANEL SLOT



MOUNTING TANK RACK TO END PANEL

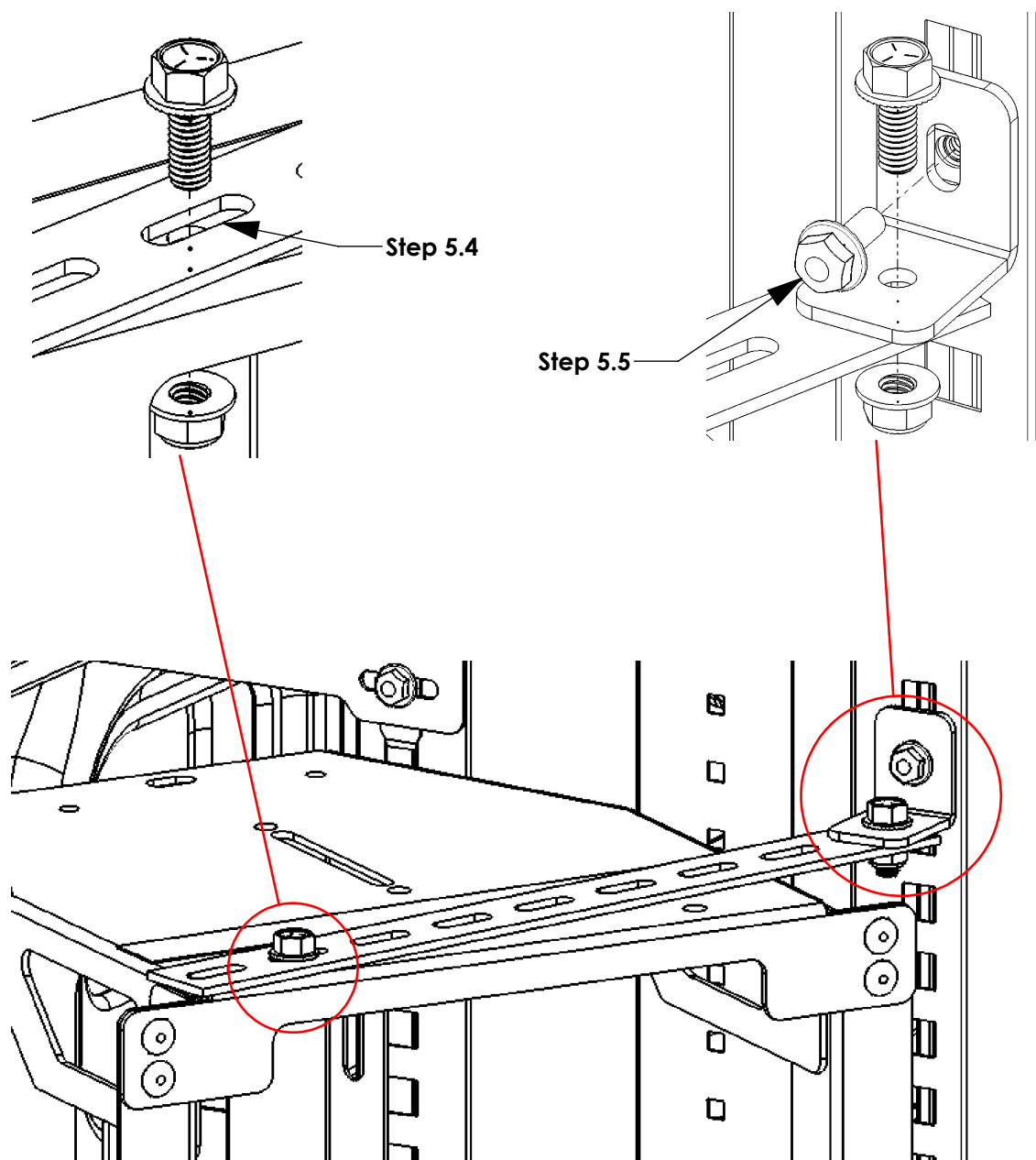
Step 5.4
PLACE MB120 &
MB118 BACK TO
TOP PLATE ON
TANK RACK,
LOOSELY TIGHTEN
FAS0438 &
FAS0440 IN
HOLES.

FULLY TIGHTEN
AFTER STEP 5.5

1/2" SOCKET
DRILL

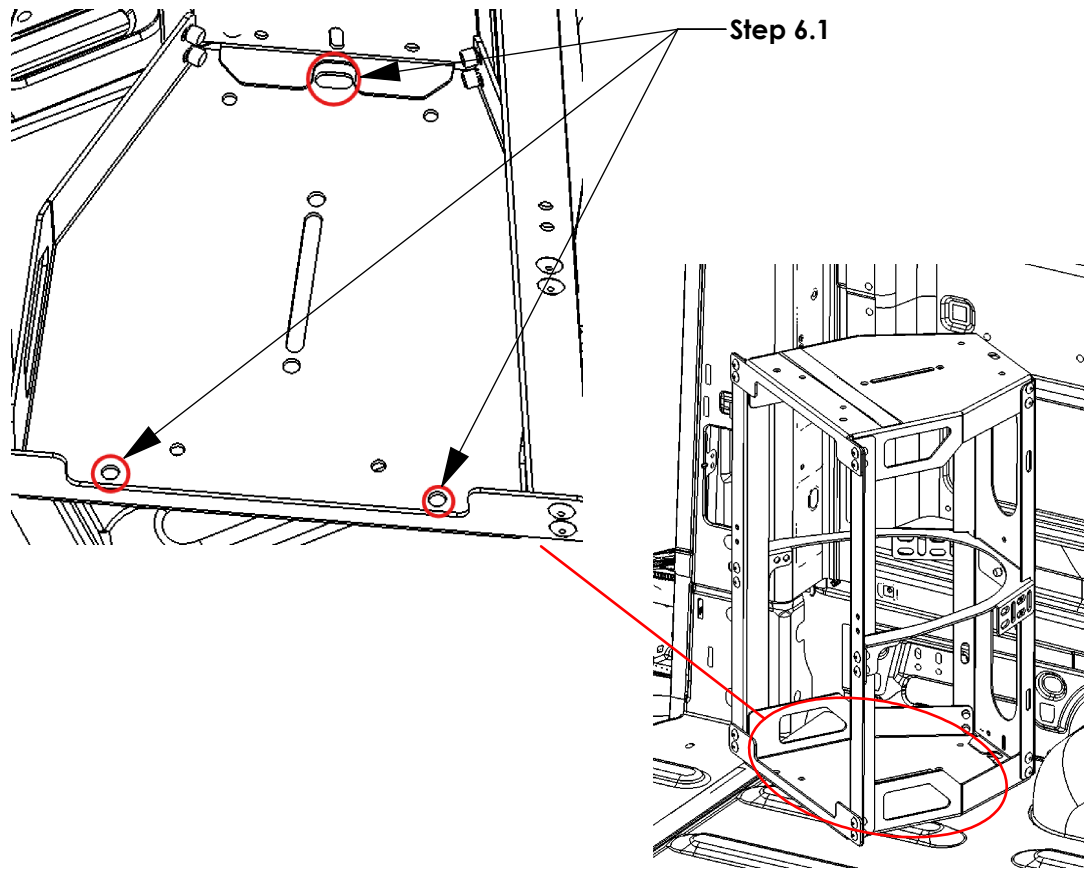
Step 5.5
PLACE MB118
AGAINST END
PANEL, FULLY
TIGHTEN
FAS0018,
REATTACH
FAS0438 AND
FAS0440 FULLY
TIGHTEN.

7/16" SOCKET
1/2" SOCKET
DRILL



MOUNTING TANK RACK TO D-PILLAR

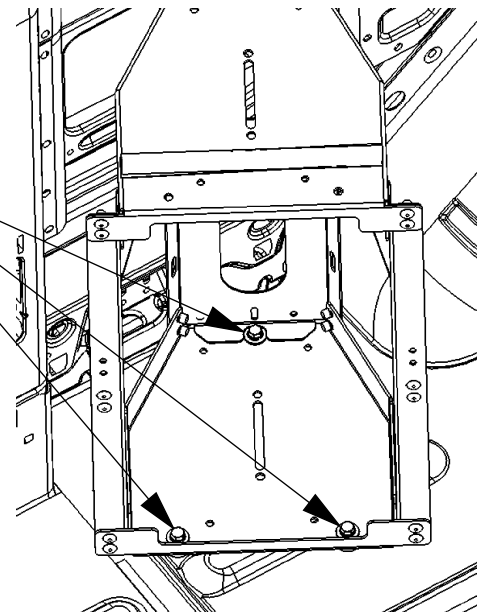
Step 6.1
PLACE TANK
RACK AGAINST
D-PILLAR AT AN
ANGLE. AFTER
FINDING
LOCATION
MARK HOLE
LOCATION ON
FLOOR TO BE
DRILLED



Step 7.1
REPEAT STEPS
2.2, 3.2 & 4.2
TO MOUNT
TANK RACK TO
FLOOR

1/2" SOCKET
1/2" DRILL BIT
DRILL
PLUSNUT DRILL

Step 7.1



Step 8.1
REPEAT STEP 5.4
TO MOUNT
MB120 TO TOP
PLATE

1/2" SOCKET
DRILL

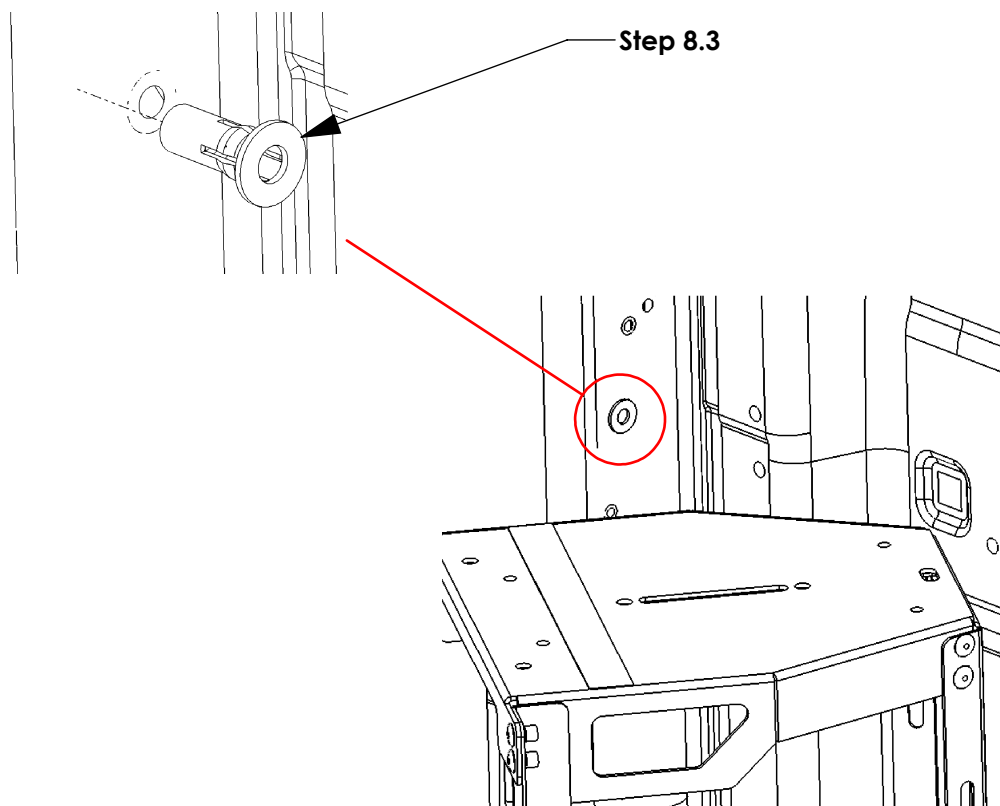
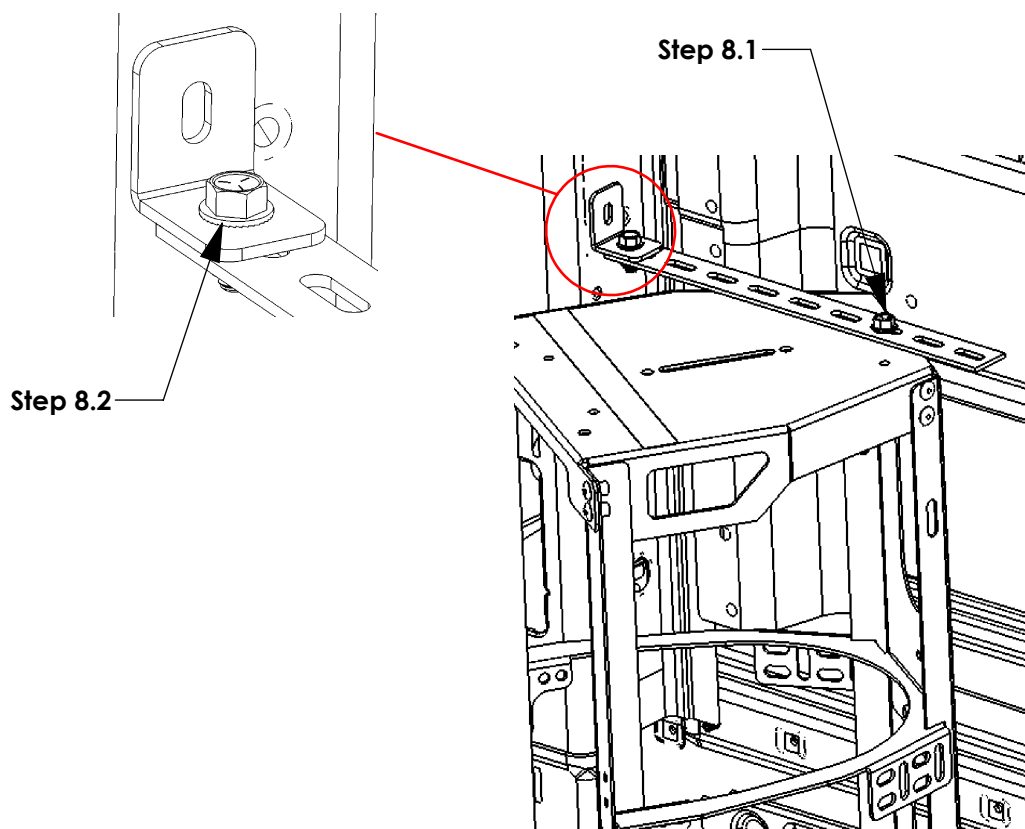
Step 8.2
REPEAT STEP 5.1
TO COMBINE
MB120 & MB118.

PLACE AGAINST
D-PILLAR TO
MARK HOLE TO
DRILL 1/2" HOLE

1/2" SOCKET
DRILL

Step 8.3
USE PLUSNUT
TOOL TO PLACE
FAS0091 INTO
DRILL HOLE

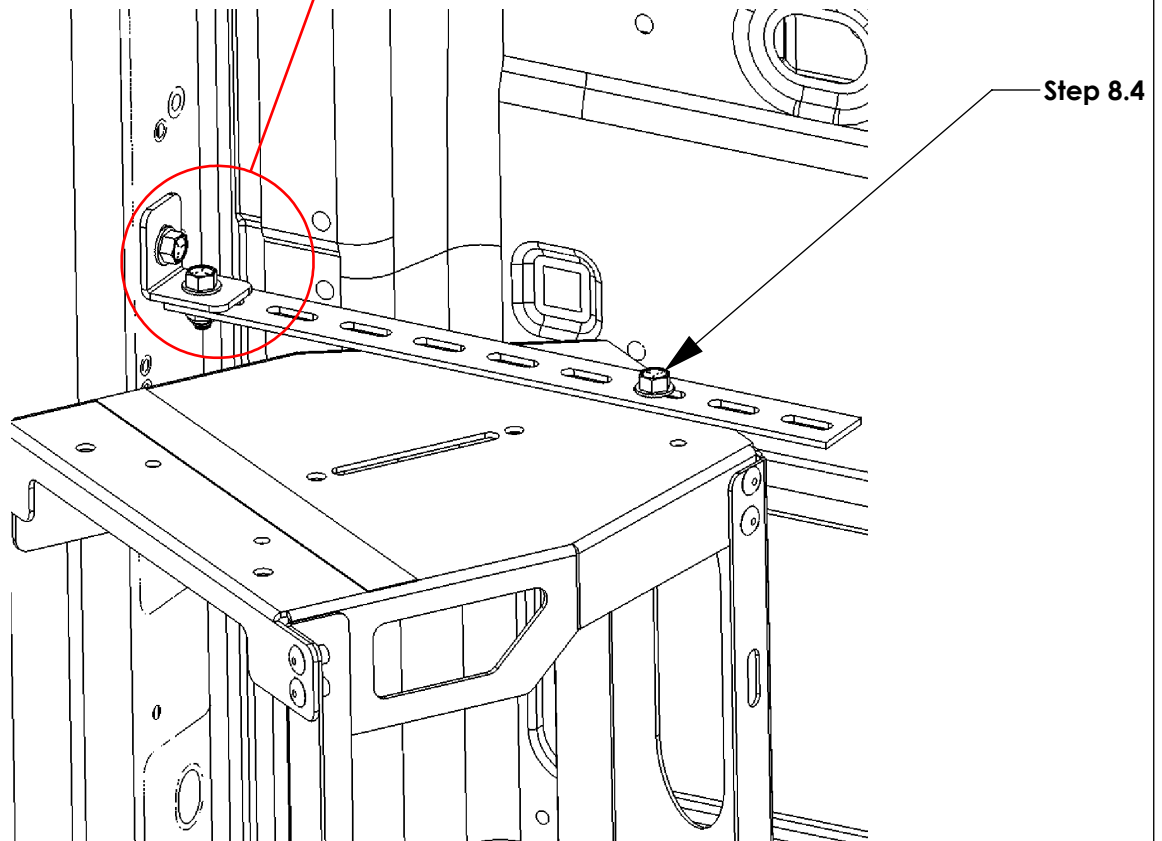
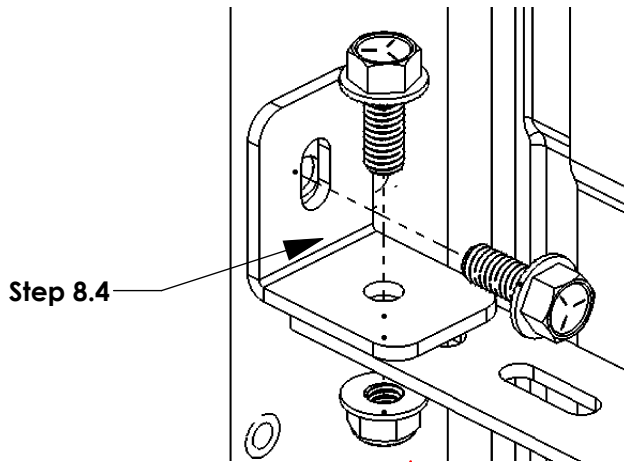
1/2" DRILL BIT
DRILL
PLUSNUT TOOL



Step 8.4
REPEAT STEP 5.4.

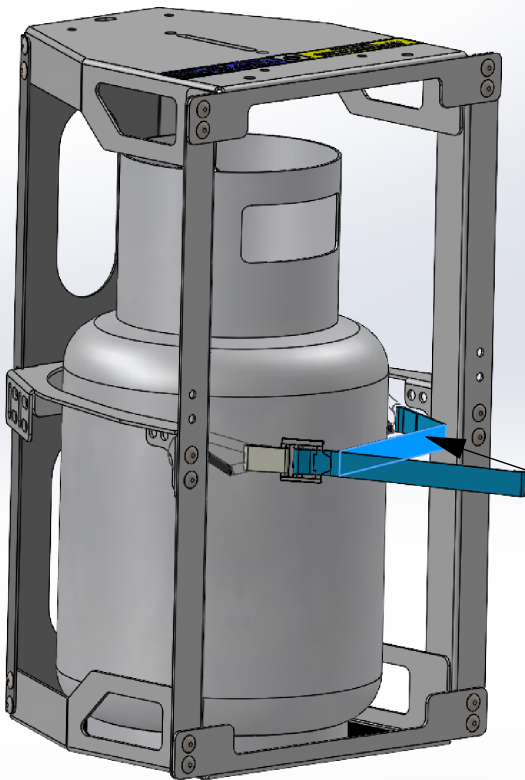
Step 8.5
REPOSITION
MB118 AGAINST
THE PLUSNUT
ALONG THE D-
PILLAR,
FULLY TIGHTEN
FAS0438,
REATTACH
FAS0438 AND
FAS0440 FULLY
TIGHTEN.

1/2" SOCKET
DRILL



FINAL STEP TO MOUNT TANKS

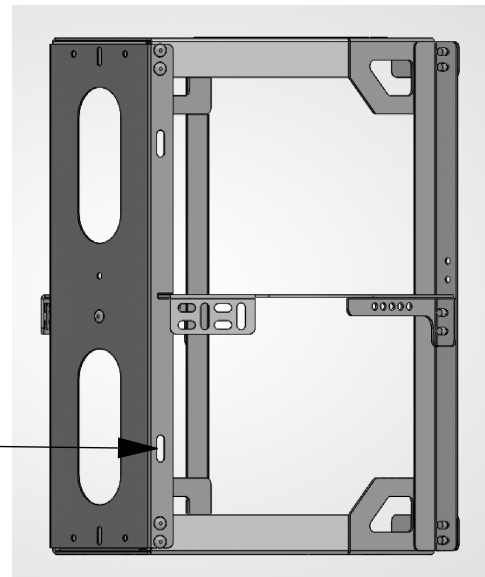
**BEFORE PLACING
TANK INTO RACK
INSTALL PINCH
WELD AROUND
EDGE OF
SUPPORT PLATE**

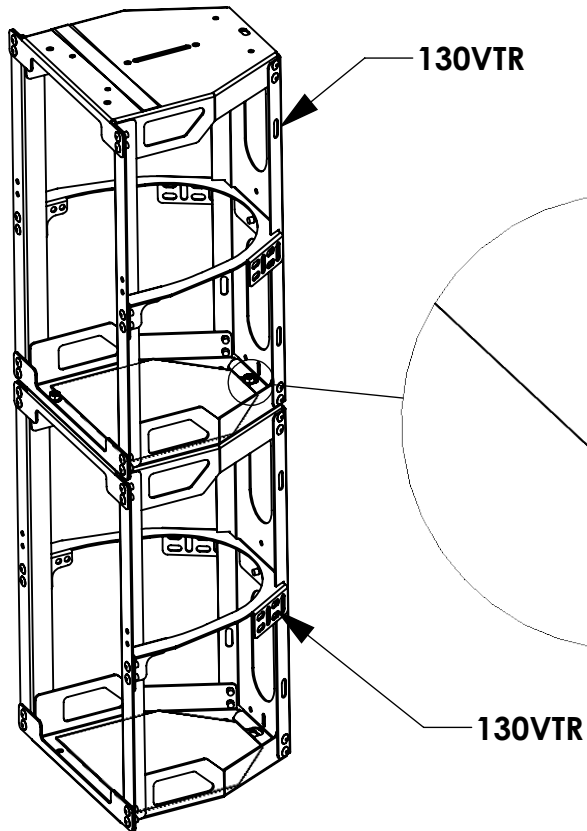


**AFTER TANK RACK HAS BEEN
MOUNTED IN PLACE, PLACE
TANK INTO RACK AND USE
65406 STRAP TO SECURE
TANK IN PLACE.**

**VERY IMPORTANT TO STRAP
TANKS ONTO TANK RACKS**

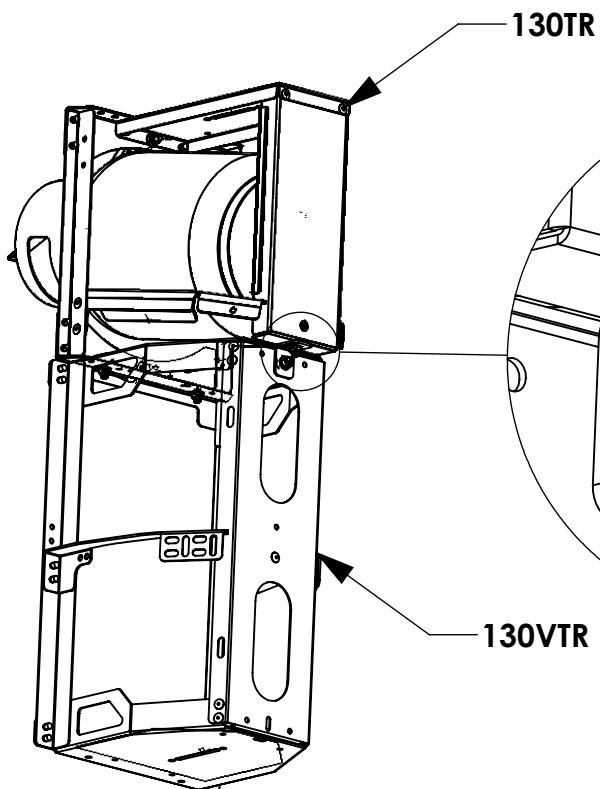
**IF USING 30LB TANK WITH
150VTR,
FASTEN ADDITIONAL 65406
STRAP WITH BOTTOM
SLOTS TO SECURE**



STACKING TANK RACKS

TO STACK VTR
TANK RACKS USE
FAS0440 AND
FAS0438 TO
EACH OTHER.

X3



WHEN STACKING
TR TANK RACKS
ON TOP OF VTR
RACKS USE
MB118 BRACKET
TO MOUNT TO
THE VTR RACKS
ALONG WITH
FAS0440 AND
FAS0438