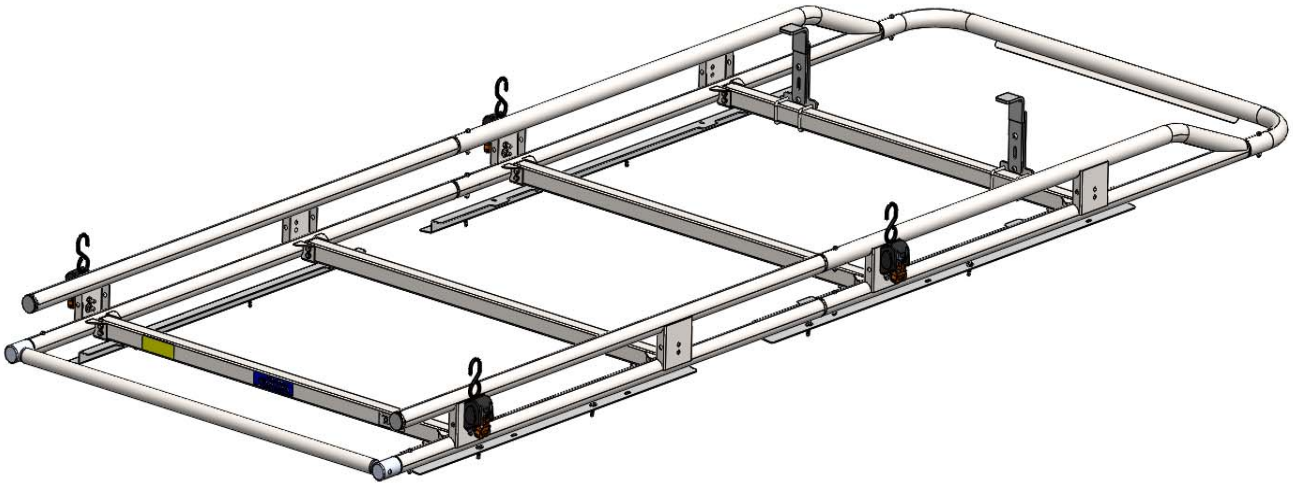
Introduction / Comments:

Install instructions for HDW60504 ratchet strap kit onto JCI transit Loadrunner.

Note:

It is advised that all fasteners used in this assembly and installation should be checked for tightness at the following intervals: @ 2-weeks and again @ 6-weeks of operation. This preventive maintenance step must be completed to ensure your Product gives you long service life.



HDW60504
RATCHET STRAP KIT, 4

- PRECAUTIONS -

CAUTION

THE USE OF AIR IMPACT TOOLS CAN OVER-TORQUE FASTENERS AND CAUSE FASTENER FAILURE!

CAUTION

ALL INSTALLATION HOLES SHOULD BE SEALED WITH SILICON OR BUTYL SEALANT TO PREVENT EXHAUST FUMES FROM ENTERING THE VEHICLE!

DANGER

INSPECT FOR FUEL TANK, FUEL LINES, BRAKE LINES, HIGH VOLTAGE BATTERIES AND ELECTRICAL LINES PRIOR TO DRILLINGTO AVOID DAMAGING CRITICAL VEHICLE SYSTEMS OR INJURY TO INSTALLER DURING INSTALLATION PROCESS!

CAUTION

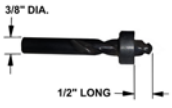
TO AVOID DAMAGING THE VEHICLE ALWAYS USE DRILL STOPS WHEN DRILLING ANY INSTALLATION HOLES! ADRIAN AVAILABLE PART #'S 31119-0 (3/8" X 1/2" DEEP), 31121-0 (1/2" x 1/2" DEEP)

- IMPORTANT WARRANTY REQUIREMENTS -

1. **SUBSTITUTING ADRIAN STEEL SPECIFIED FASTENERS FOR ASSEMBLY AND/OR INSTALLATION WILL VOID YOUR PRODUCT WARRANTY.**
2. **ALL HOLES DRILLED INTO VEHICLE SHOULD HAVE THE RAW METAL EDGES SEALED WITH A SELF -ETCHING PRIMER TO RESIST CORROSION AND POTENTIAL FASTENER POINT FAILURE.**
3. **ALL FASTENERS USED IN THE INSTALLATION OF THIS PRODUCT SHOULD BE TIGHTENED TO THE TORQUE(S) SPECIFIED IN THESE INSTRUCTIONS.**
4. **THESE INSTRUCTIONS SHOULD BE KEPT WITH THE VEHICLE.**

THE BASIC TOOLS NEEDED FOR MOST INSTALLATIONS

DRILL



DRILL BIT WITH STOP

RATCHET, SOCKETS AND/OR WRENCHES

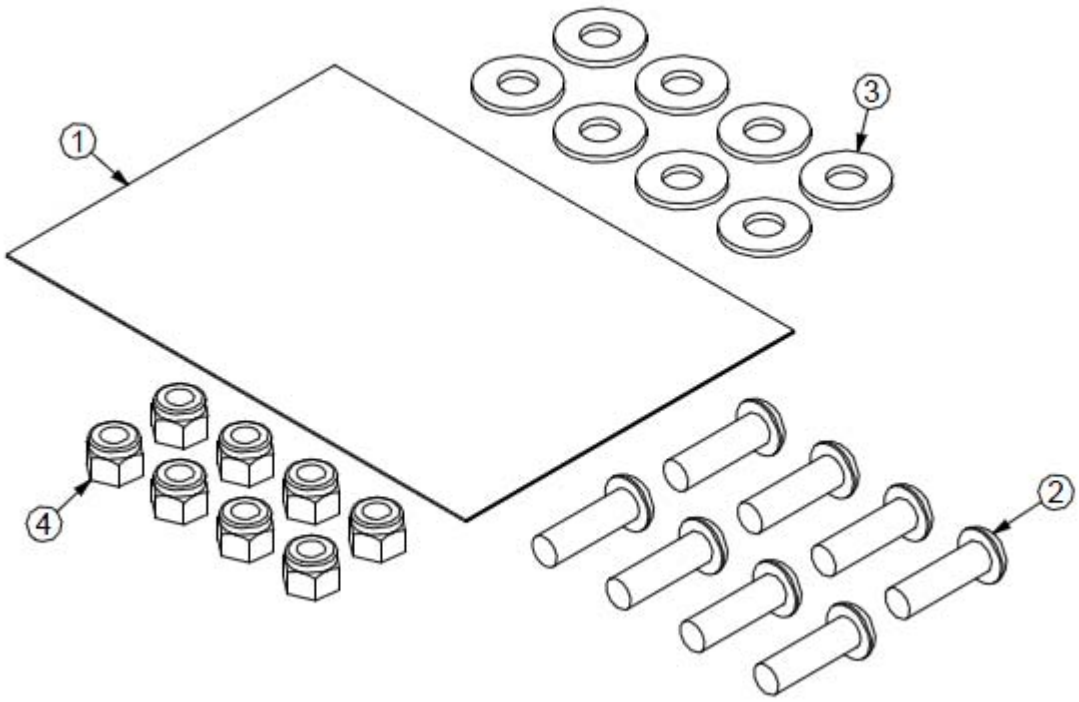
SCREWDRIVERS

MEASURING TAPE

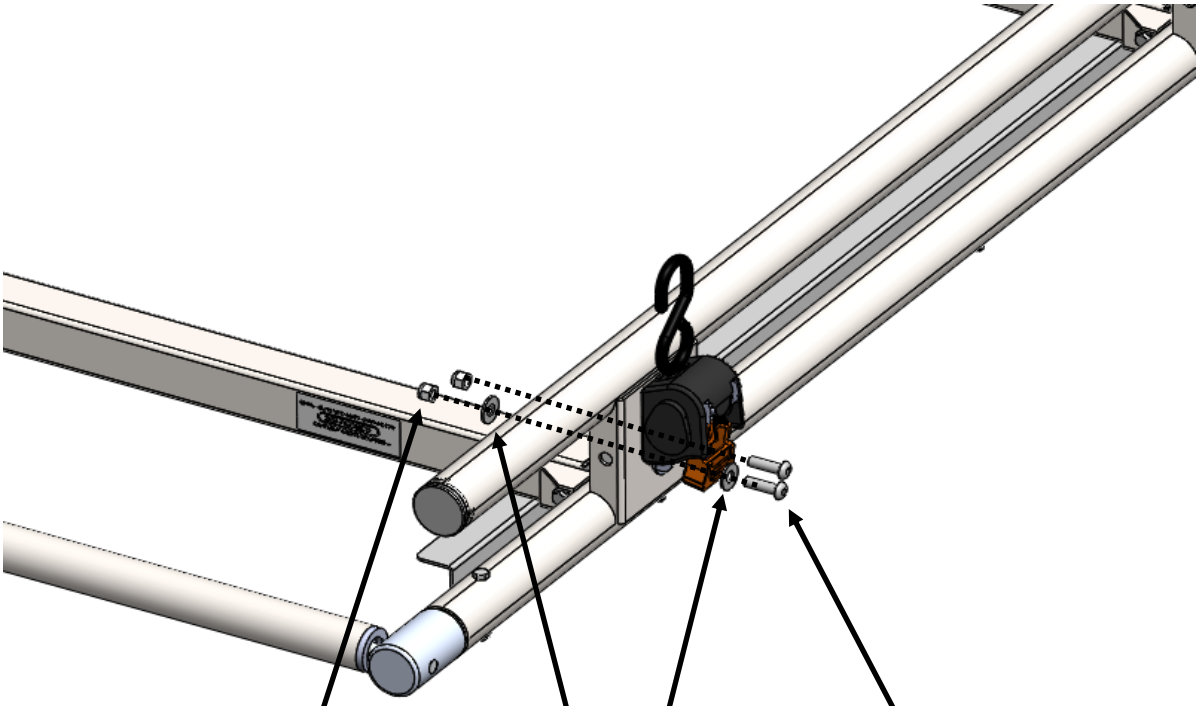
ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.

Installation and/or Assembly Fasteners
(BAG60504)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0507-A	5" x 7" 3MIL AUTOBAG	1
2	FAS0701	Screw,BHCS 3/8-16x1.25 SS	8
3	FAS 0720	Washer,Flat 3/8 SS	8
4	FAS0110	Nut,Hex Nylk 3/8-16 SS W	8

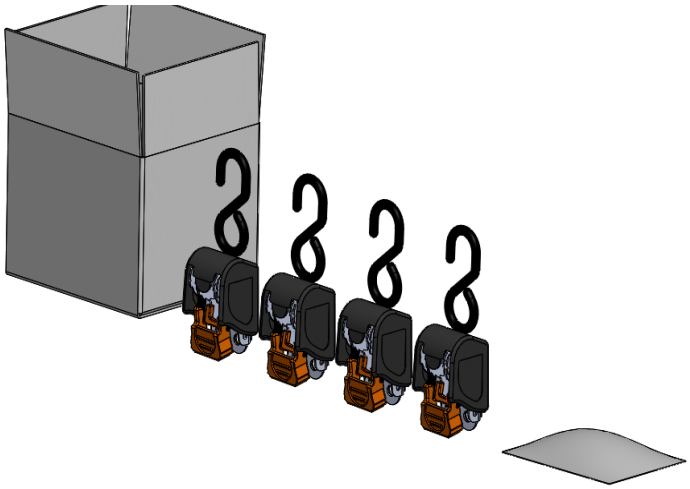


Step 01 Attach Ratchets to the trusses using fasteners in BAG60504. Washers are only installed on the lower bolt.



DOUBLE CHECK ALL FASTENERS LOCATIONS TO BE SURE THAT ALL FASTENERS ARE TIGHTENED TO SPECIFICATIONS.
YOUR INSTALLATION IS NOW COMPLETE!
STOW THIS COPY IN THE VEHICLE FOR FUTURE REFERENCES!

RATCHET STRAP KIT, 4



PRODUCT WEIGHT
5.6

WIDTH x DEPTH x HEIGHT
N/A

CAPACITY
SWL 466 lbs

COLOR
BLACK

CATALOG NUMBER
HDW60504

PRODUCT FEATURES

This kit contains four retractable ratchet straps. They have a breaking strength of 1200 pounds and a safe working load of 466 pounds.

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

The information contained in this document is the sole property of ADRIAN STEEL COMPANY. ADRIAN STEEL COMPANY retains the right to modify and/or change the product of its design at any time without prior notification.

CATALOG NUMBER HDW60504

PRODUCT APPLICATION

This product is designed to be installed on a ladder rack

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

CATALOG NUMBER	***DESCRIPTION***
60413	**JCI, Load Runner. Transit**

SPECIAL APPLICATION NOTES

The information contained in this document is the sole property of ADRIAN STEEL COMPANY. ADRIAN STEEL COMPANY retains the right to modify and/or change the product of its design at any time without prior notification.

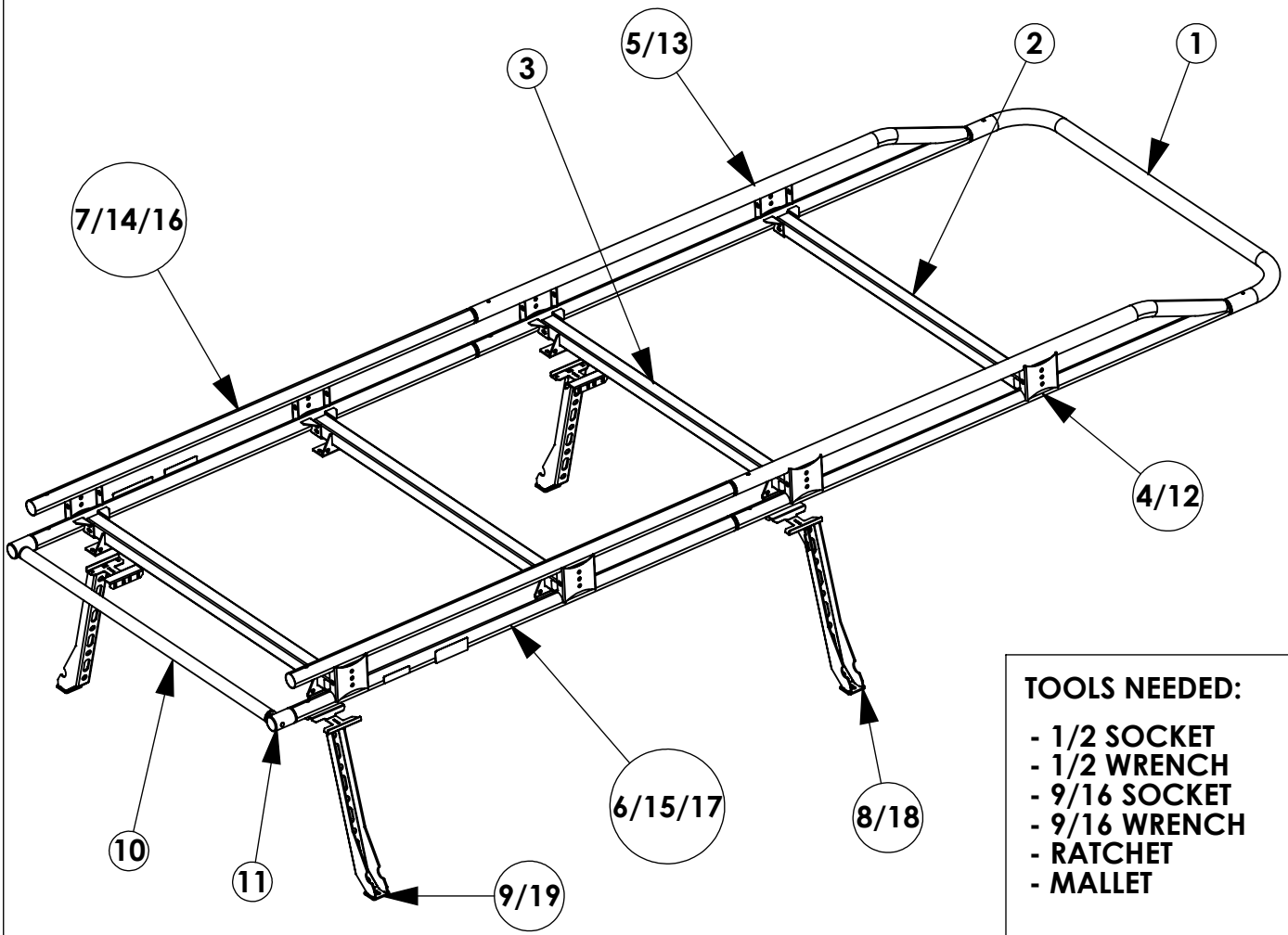
INSTR. NUMBER : 77707	PG: 1	REV: C

PART NUMBER : **SLRT RACKS**

PART DESC. : ASSEMBLY

NOTE: THIS INSTRUCTION IS VALID FOR THE FOLLOWING KITS:
- **5.5 PERIMETER RACK**
- **6.5 PERIMETER RACK**
- **8 PERIMETER RACK**
- **SLRR-6FC23**
- **SLRR-8FC23**

ITEM NO.	PART NUMBER	DESCRIPTION	5.5	6.3/6.5/6.7	8
1	26572-0	CROSS TUBE FRONT	-	1	1
2	26575-0	CROSSBAR ASSY MIDDLE	-	1	1
3	77400-B	CROSSBOW ASSEMBLY, BLK	-	3	-
4/12	77401-B	FRONT PS TRUSS, 6.5',EXT, BLK	-	1	-
5/13	77402-B	FRONT DS TRUSS, BLK		1	
6/15/17	77403-B	REAR PS TRUSS,6.5',CREW, BLK	-	1	-
7/14/16	77404-B	REAR DS TRUSS,6.5',CREW, BLK		1	
8/18	77408-B	POST ASSEMBLY, BLK	-	2	-
9/19	77409-B	SHORT MIRRORED POST ASSEMBLY, BLK	-	2	-
10	77407	ROLLER TUBE ASSM, TRANSIT LR	-	1	-
11	60498-B	LR ROLLER EXTENSION ASM	-	2	-
12	77598-B	FRONT PS TRUSS,8' BLK	-	-	1
13	77599-B	FRONT DS TRUSS,8' BLK	-	-	1
14	77596-B	REAR DS TRUSS, 8' BLK	-		1
15	77597-B	REAR PS TRUSS, 8' BLK	-	-	1
16	77594-B	REAR DS TRUSS, 5.5' BLK	1	-	-
17	77594-B	REAR PS TRUSS, 5.5' BLK	1	-	-

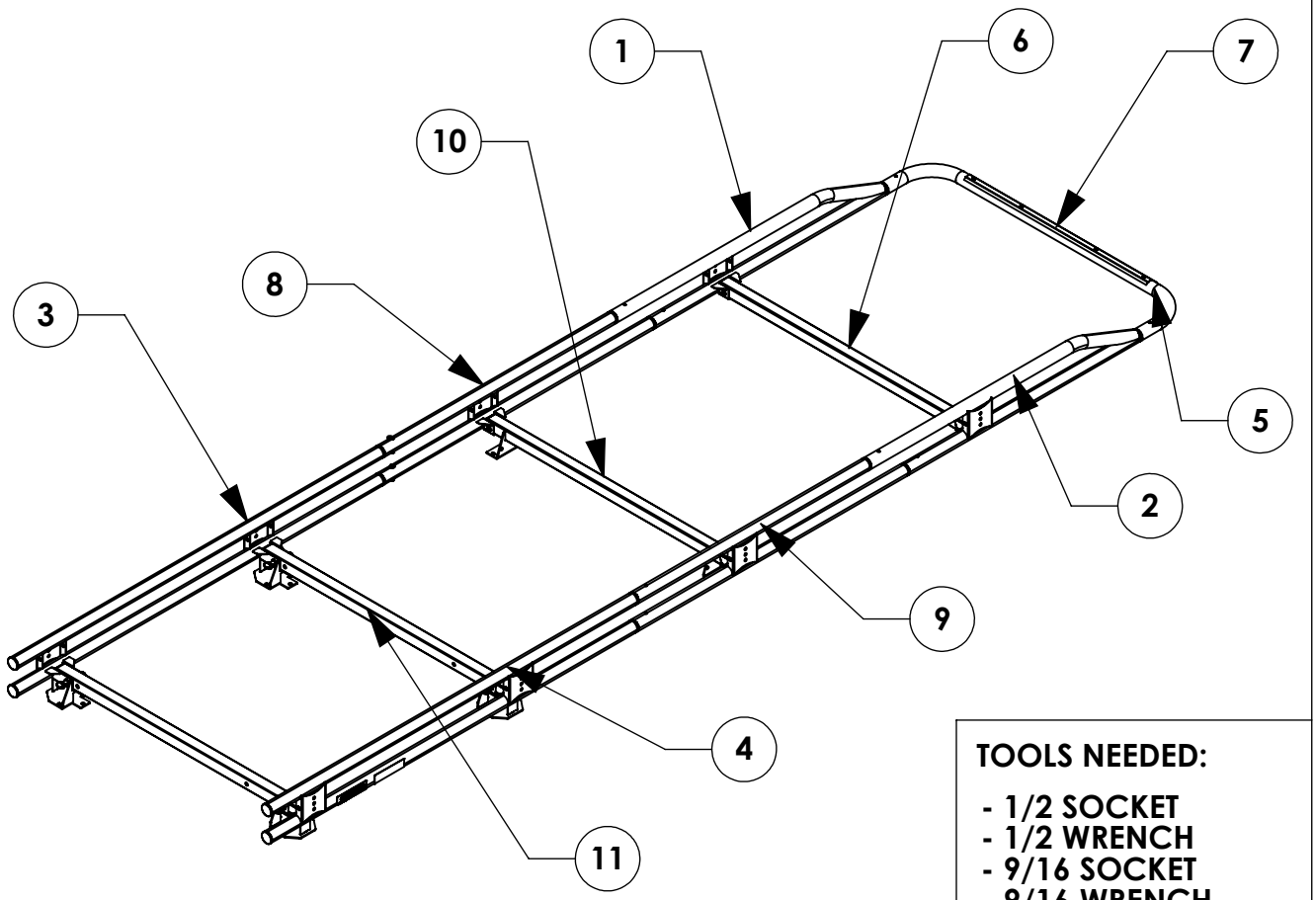


TOOLS NEEDED:
- **1/2 SOCKET**
- **1/2 WRENCH**
- **9/16 SOCKET**
- **9/16 WRENCH**
- **RATCHET**
- **MALLET**

INSTR. NUMBER : 77707	PG: 2	REV: C
PART NUMBER : SLRR RACKS		
PART DESC. : ASSEMBLY		

NOTE: THIS INSTRUCTION IS VALID FOR THE FOLLOWING KITS:
- **5.5 PERIMETER RACK**
- **6.5 PERIMETER RACK**
- **8 PERIMETER RACK**
- **SLRR-6FC23**
- **SLRR-8FC23**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81177-B	3 PIECE FRONT TRUSS DS, BLK	1
2	81178-B	3 PIECE TRUSS FRONT PS, BLK	1
3	80858-B	REAR DS TRUSS SLRR 8', BLK	1
4	80859-B	REAR PS TRUSS SLRR 8', BLK	1
5	26572-0	CROSS TUBE FRONT	1
6	26575-0	Crossbar Middle	1
7	27231-0	Spoiler	1
8	79672-B	8' MIDDLE TRUSS DS , BLK	1
9	79673-B	8' MIDDLE TRUSS PS, BLK	1
10	80857-B	CROSSBOW ASSM WITH TALLER FOOT, BLK	1
11	80983-B	SLRR CROSSBAR TUBE, BLK	2



TOOLS NEEDED:
- **1/2 SOCKET**
- **1/2 WRENCH**
- **9/16 SOCKET**
- **9/16 WRENCH**
- **RATCHET**
- **MALLET**

BEST PRACTICES

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.

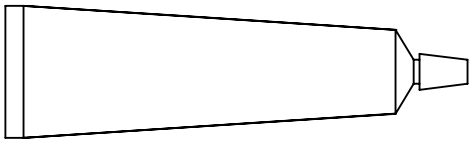
PLUSNUT INSTALLATION - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

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

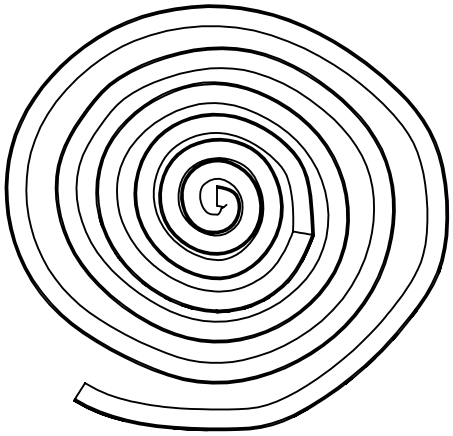
BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR

FASTENERS USED

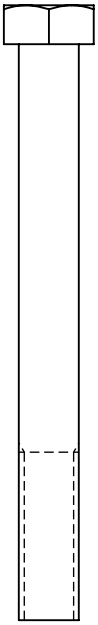
BAG REFERENCE: **BAG77706**



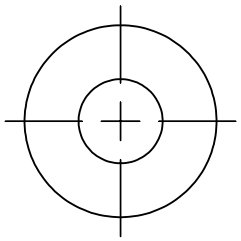
26618-0
Silicone Sealant
QTY: 1



05586-0
Butyl Tape, T224 -1/2"X 1' Roll
QTY: 1

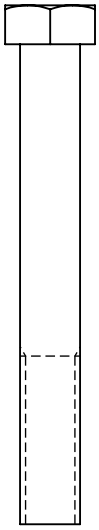


FAS0244
SCREW,HH 5/16-18X3 SS
QTY: 16



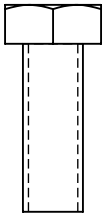
FAS0720
WASHER,FLAT USS 3/8 SS
QTY: 8

FAS0110
NUT,HEX NLK 3/8-16 SS W
QTY: 4

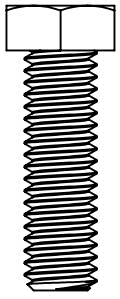


FAS0243
SCREW,HH 5/16-18X2.5 SS
QTY: 8

FAS0248
NUT,HEX NLK 5/16-18 SS
QTY: 24

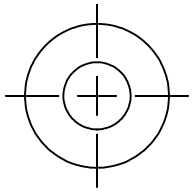


FAS0283
SCREW,HH 5/16-18X.875 SS
QTY: 12



FAS0294
SCREW,HH 3/8-16X1.25 SS
QTY: 4

FAS0588
WASHER,LCK SPLIT 5/16 SS
QTY: 12



FAS0552
WASHER,FLAT USS 5/16 SS
QTY: 60

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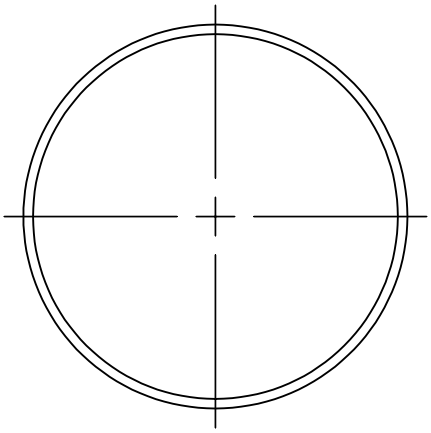
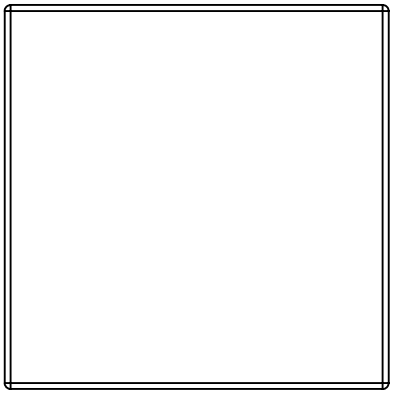
BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR

FASTENERS USED

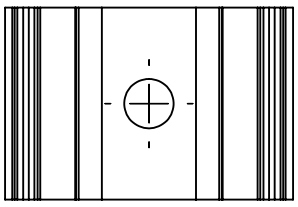
BAG REFERENCE: **BAG77701**



26609-0
PLUG ROUND 2"
QTY:2



26610-0
Plug Square 2"
QTY:8



63490
RAIL SLIDE, 1"
QTY: 12

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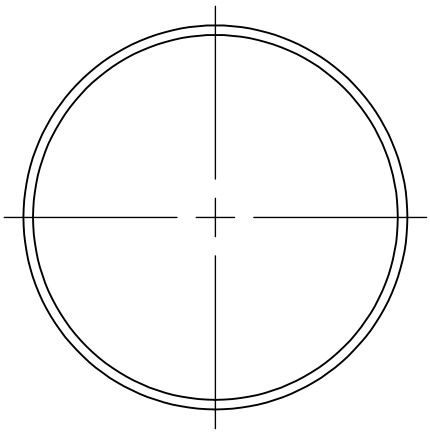
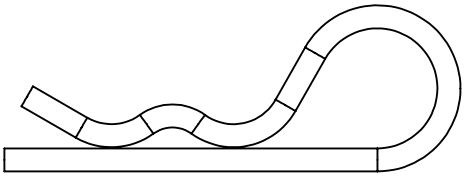
FASTENERS USED

BAG REFERENCE: **BAG80998**

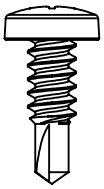
NOTE: ONLY FOR SLRR-6FC23 AND SLRR-8FC23



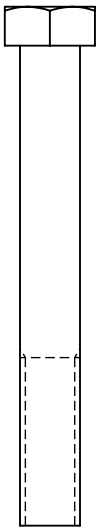
26609-0
PLUG ROUND 2"
QTY:2



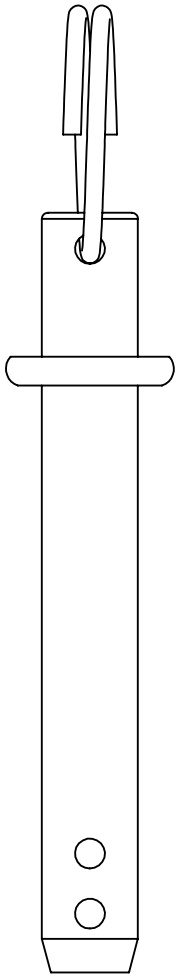
80502
HAIRPIN KEY FOR .5" CLEVIS PIN
QTY:4



FAS0360
SCREW,THP TEK14-10X.75 SS
QTY:4



FAS0243
SCREW,HEX HEAD, 5/16-18X2.50 SS
QTY:2



26611-0
RING PIN ASSEMBLY
QTY:4

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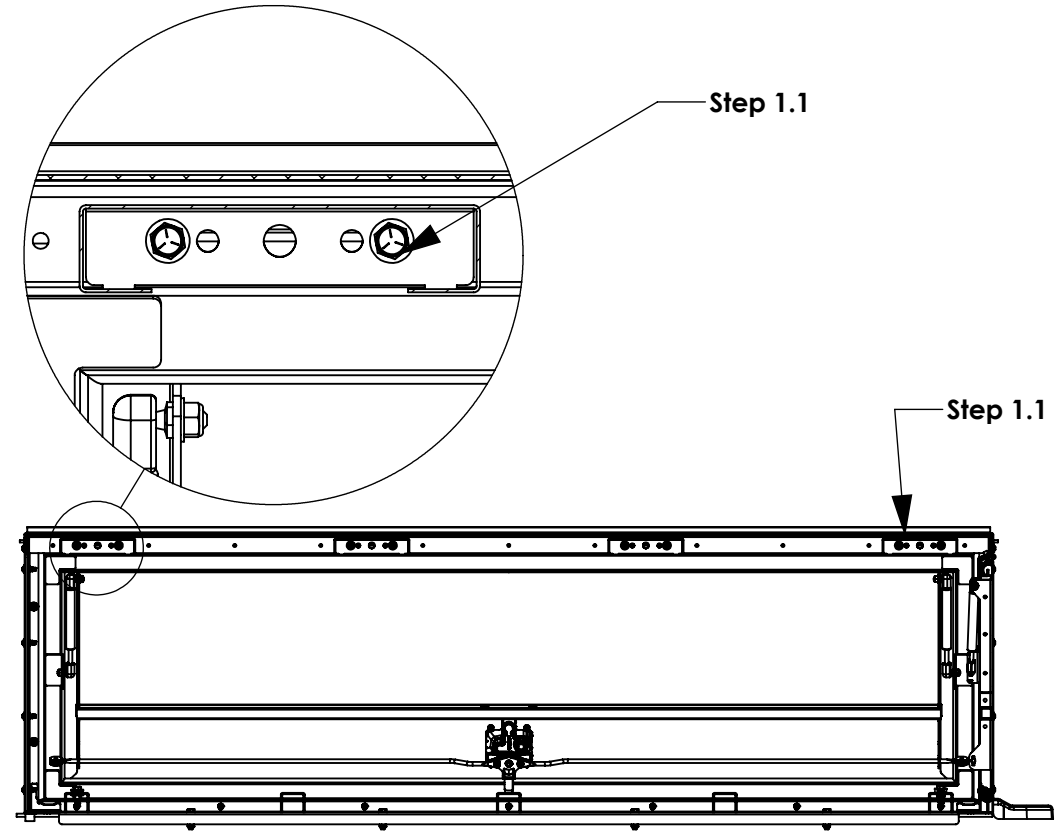
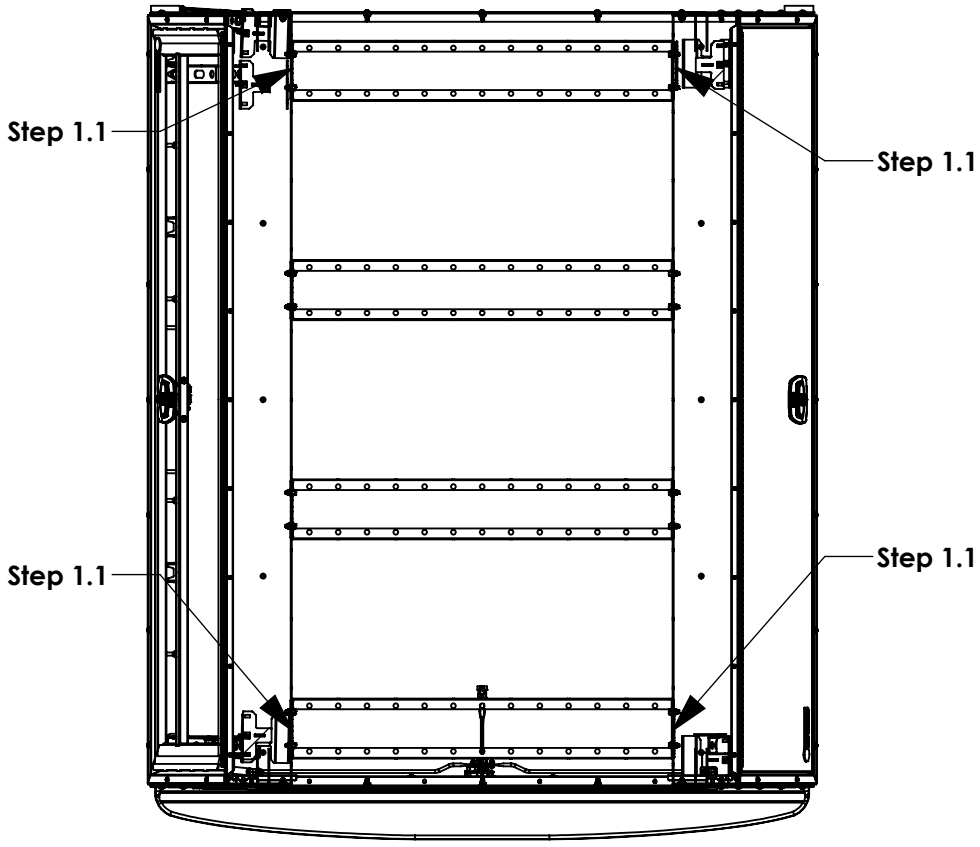
STEP 1 - REMOVE TOPPER ROOF CROSS CAR SUPPORTS AND SET ASSIDE

Step 1.1
REMOVE FAS0440 AND FAS0438 FROM TOPPER SUPPORTS IN 4 CORNERS OF TOPPER
(8) PLACES

NOTE: NOT NEEDED FOR SLRR-6FC23 AND SLRR-8FC23



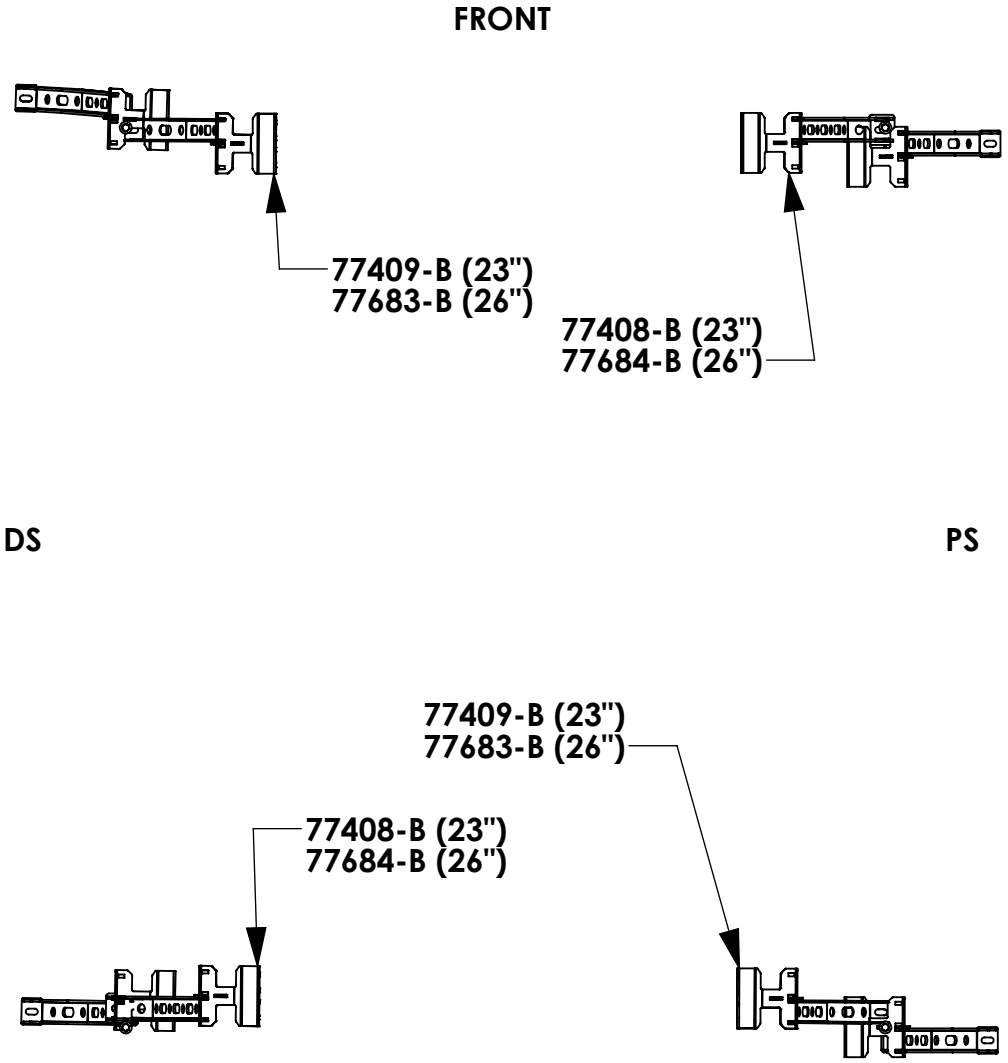


STEP 2- LOCATE CORNER SUPPORTS - PART NUMBERS WILL DIFFER BETWEEN 23" AND 26" TOPPER HEIGHTS

Step 2.1
LOCATE CORNER SUPPORTS AND STAGE FOR INSTALL

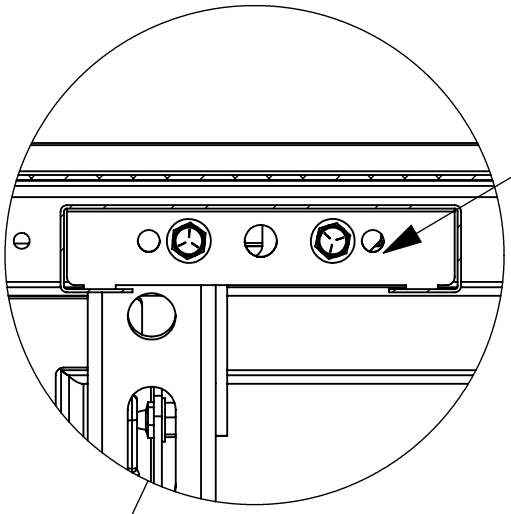
OPEN BOTH SIDE DOORS OF TOPPER FOR NEXT STEPS

NOTE: NOT NEEDED FOR SLRR-6FC23 AND SLRR-8FC23



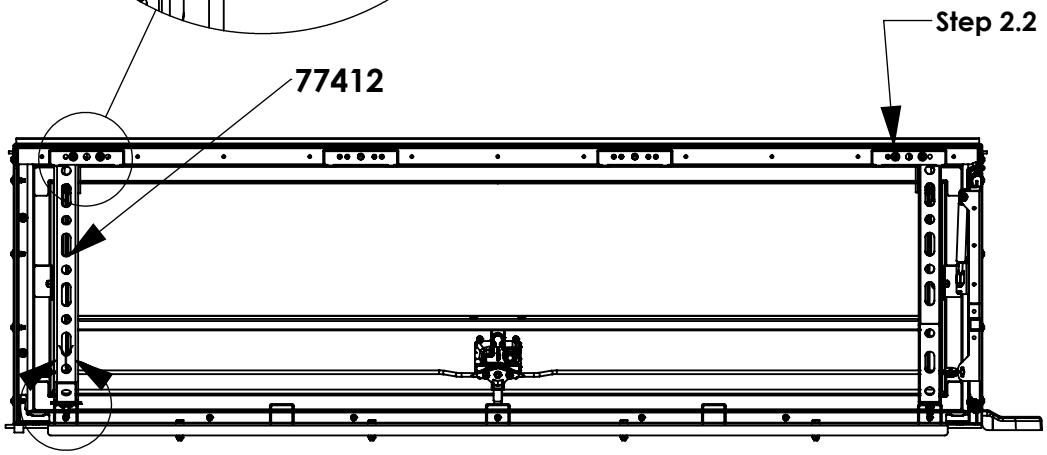
STEP 3 - BOLT IN CORNER SUPPORTS - CONFIRM PART NUMBERS ON PAGE 8

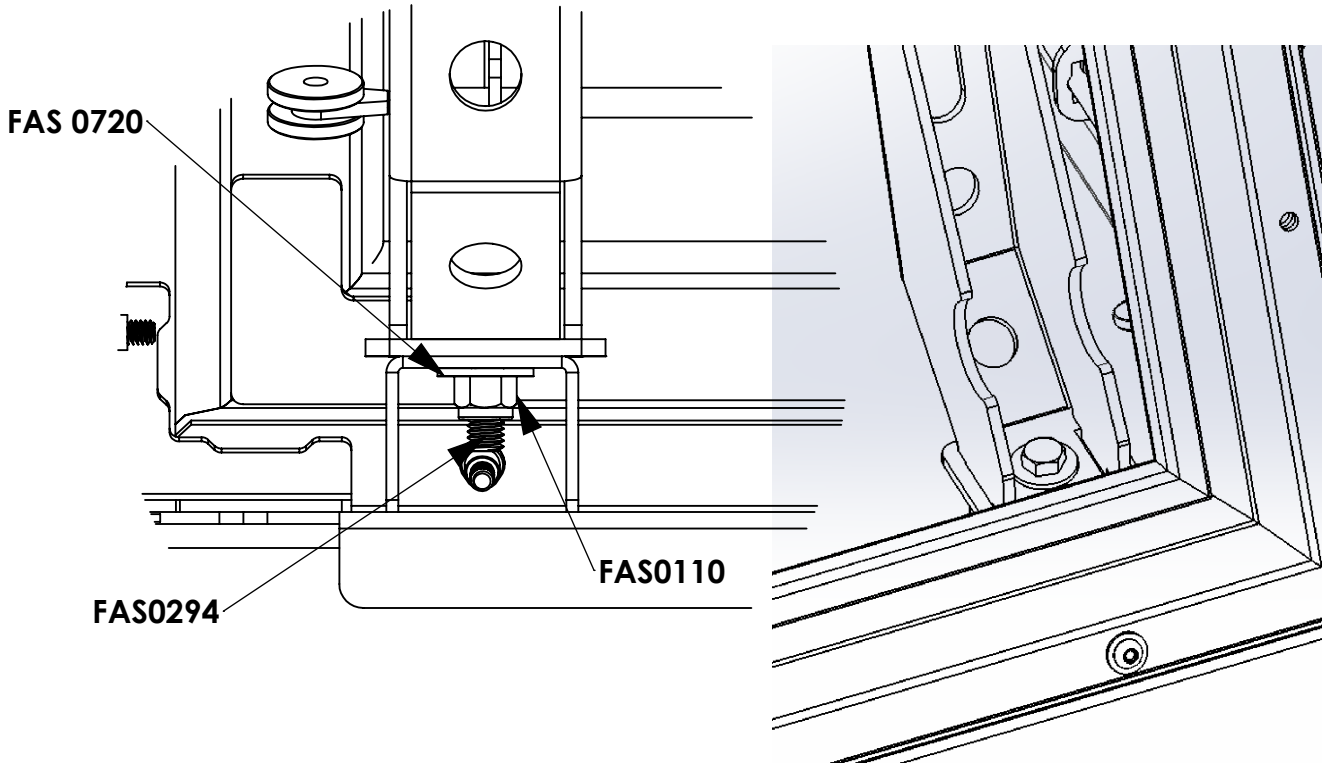
Step 3.1
<u>FULLY TIGHTEN</u>
FAS0440 AND FAS0438
(08 PLACES)
1/2 WRENCH
1/2 SOCKET



NOTE: NOT NEEDED FOR SLRR-6FC23 AND SLRR-8FC23

Step 3.2
<u>FULLY TIGHTEN</u>
FAS0110
FAS0294 AND
FAS0720
(04 PLACES)
9/16 WRENCH
9/16 SOCKET

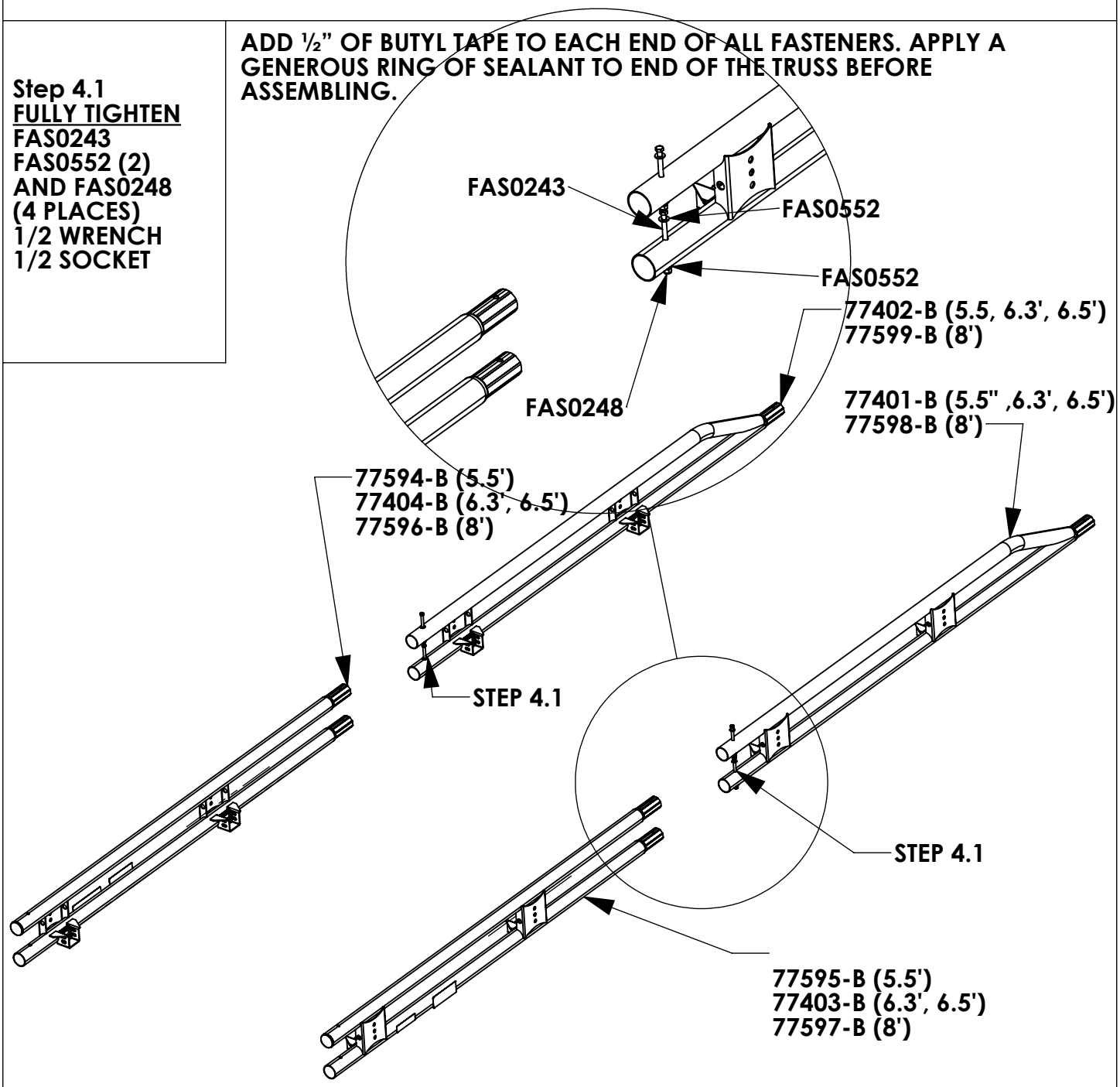


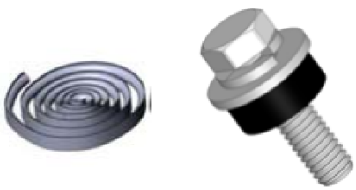


STEP 4 - CONNECT FRONT AND REAR TRUSSES

Step 4.1
FULLY TIGHTEN
FAS0243
FAS0552 (2)
AND FAS0248
(4 PLACES)
1/2 WRENCH
1/2 SOCKET

ADD ½" OF BUTYL TAPE TO EACH END OF ALL FASTENERS. APPLY A GENEROUS RING OF SEALANT TO END OF THE TRUSS BEFORE ASSEMBLING.



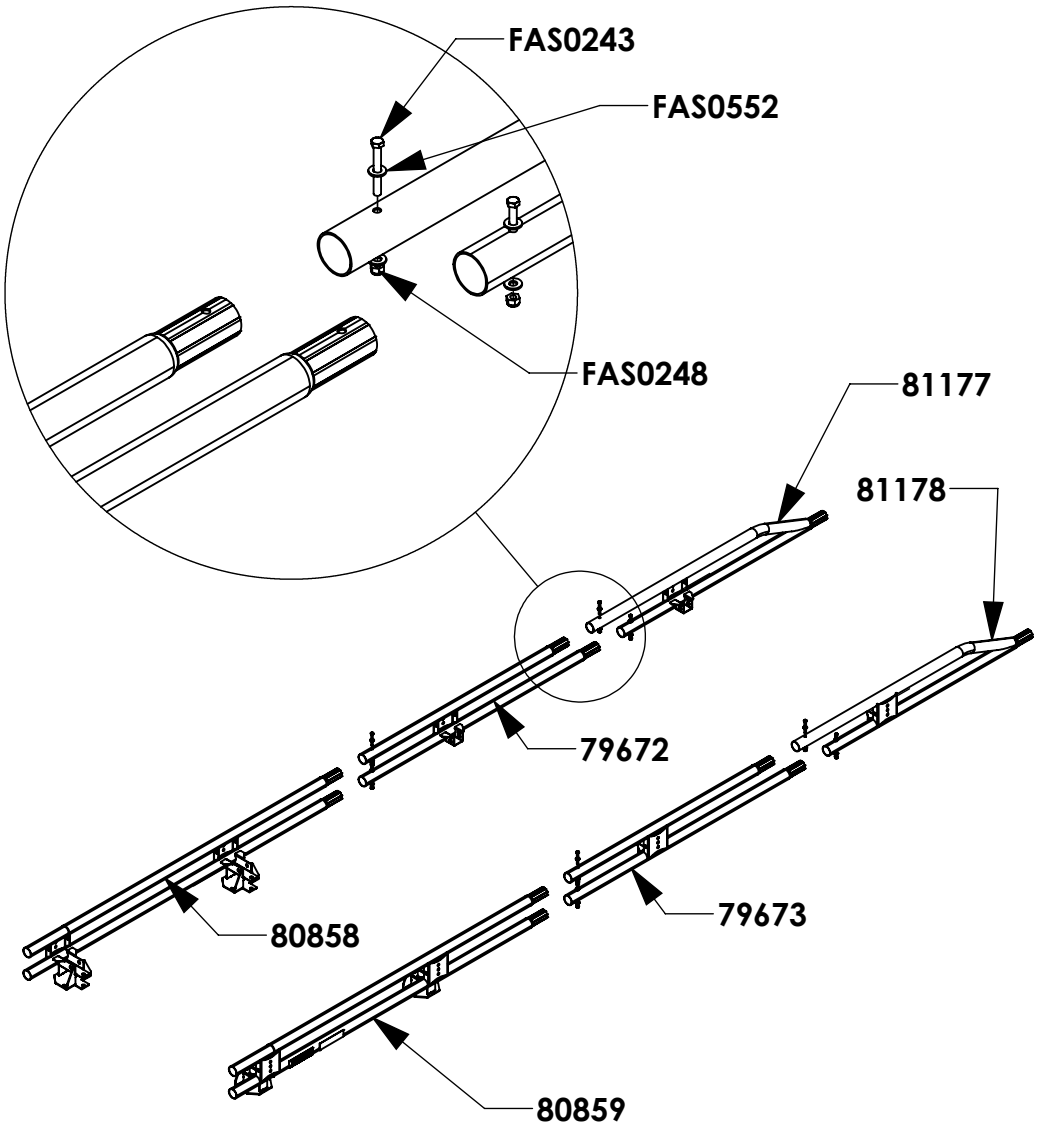


GENERIC PICTURE—MAY NOT LOOK LIKE YOUR FASTENER.

MOUNTING SCREW WITH WASHERS AND BUTYL TAPE BEFORE INSTALLATION (LEFT)AND WHAT IT SHOULD LOOK LIKE AFTER INSTALLATION (LEFT).

STEP 4 - CONNECT TRUSSES SLRR-6FC23 AND SLRR-8FC23

Step 4.1
FULLY TIGHTEN
FAS0243
FAS0552 (2)
AND FAS0248
(8 PLACES)
1/2 WRENCH
1/2 SOCKET



GENERIC PICTURE—MAY NOT LOOK LIKE YOUR FASTENER.

MOUNTING SCREW WITH WASHERS AND BUTYL TAPE BEFORE INSTALLATION (LEFT)AND WHAT IT SHOULD LOOK LIKE AFTER INSTALLATION (LEFT).

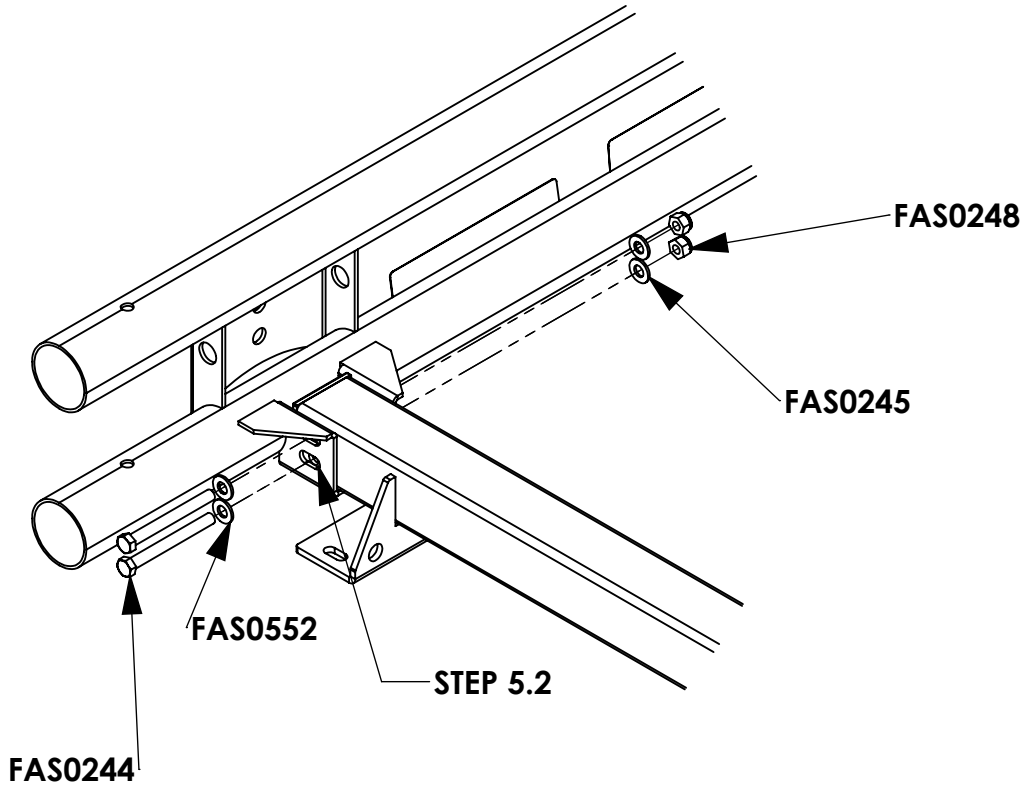
STEP 5 - INSTALL CROSSBARS

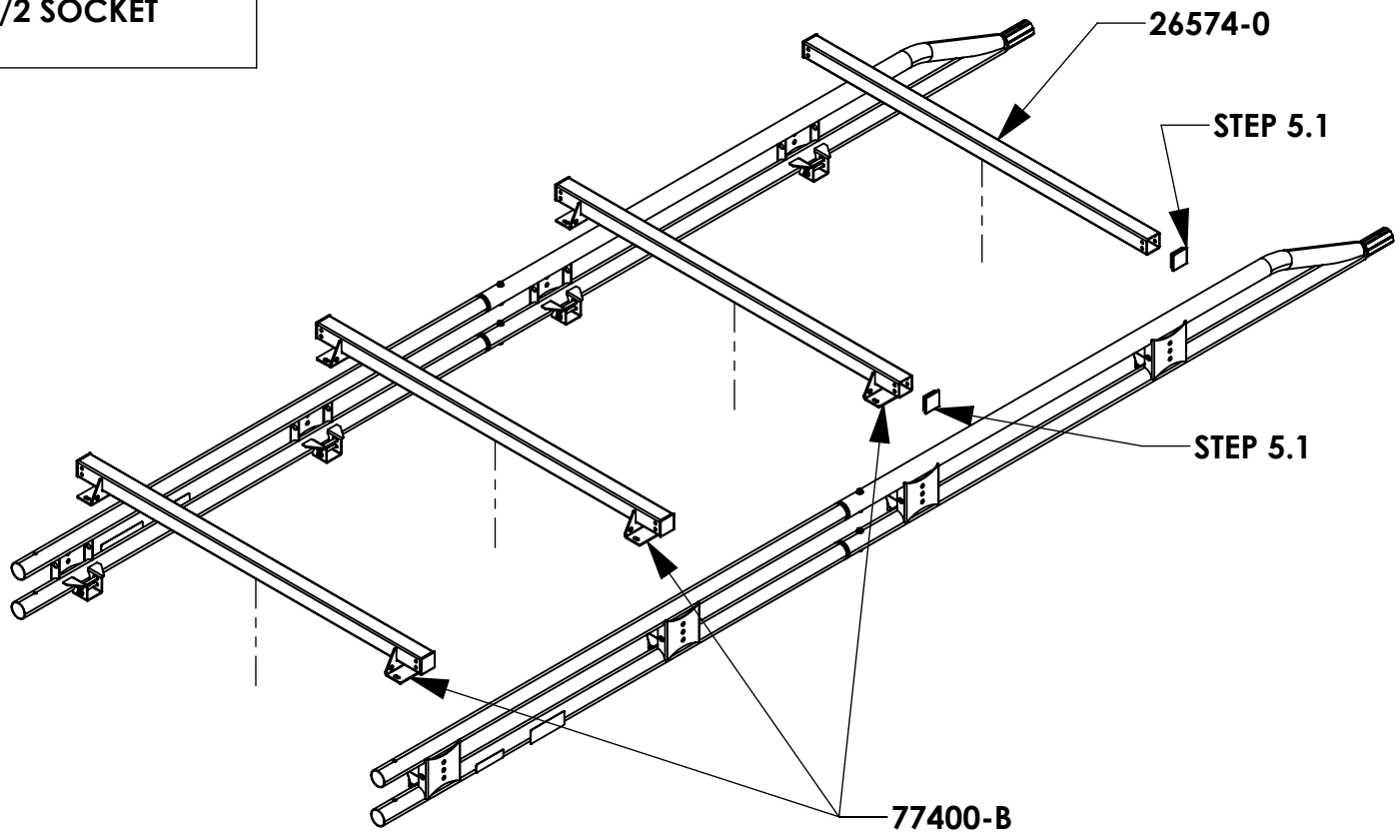
Step 5.1
INSTALL SQUARE ENDCAPS ON ALL 4 CROSSBARS

(8) PLACES

Step 5.2
<u>FULLY TIGHTEN</u>
FAS0244
FAS0552 (2) and
FAS0248 TO ATTACH CROSSBARS TO TRUSS SECTIONS

(16) PLACES
1/2 WRENCH
1/2 SOCKET





STEP 5 - INSTALL CROSSBARS for SLRR-6FC23 AND SLRR-8FC23

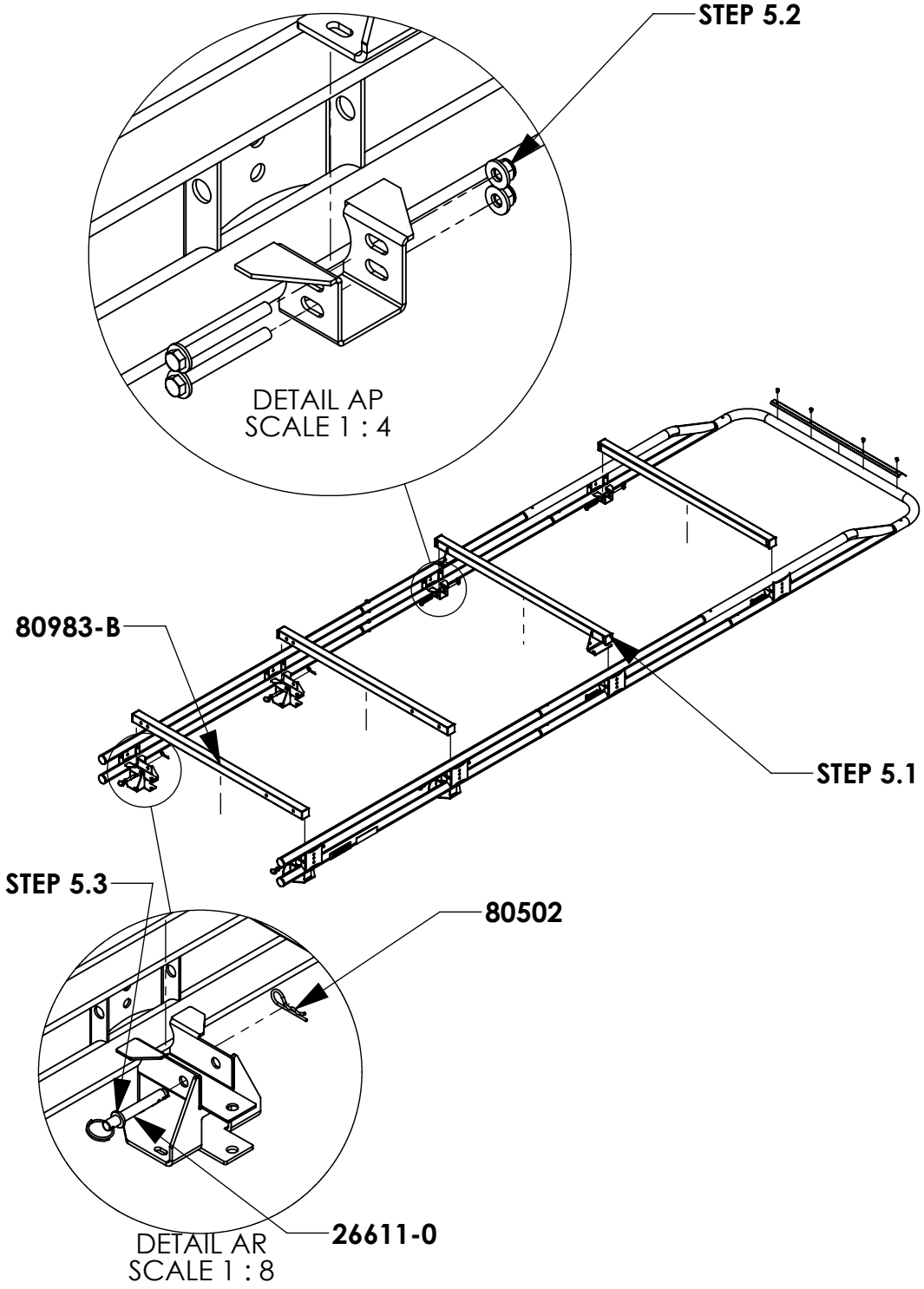
Step 5.1
INSTALL SQUARE ENDCAPS ON ALL 4 CROSSBARS

(8) PLACES

Step 5.2
<u>FULLY TIGHTEN</u>
FAS0244
FAS0552 (2) and FAS0248 TO ATTACH CROSSBARS TO TRUSS SECTIONS

(8) PLACES
1/2 WRENCH
1/2 SOCKET

Step 5.3
26611-0 and 80502 ATTACH TO 80983-B THROUGH 80854 (4 PLACES)



STEP 6 - INSTALL FRONT HOOP AND REAR ROLLER

STEP 6.1
FULLY TIGHTEN FAS0243 FAS0552 (2) AND FAS0248 TO ATTACH FRONT HOOP TO TRUSS SECTIONS

(2) PLACES
1/2 WRENCH
1/2 SOCKET

STEP 6.2
FULLY TIGHTEN FAS0243 FAS0552 (2) AND FAS0248 TO ATTACH REAR ROLLER ASSEMBLIES TO REAR TRUSS SECTIONS

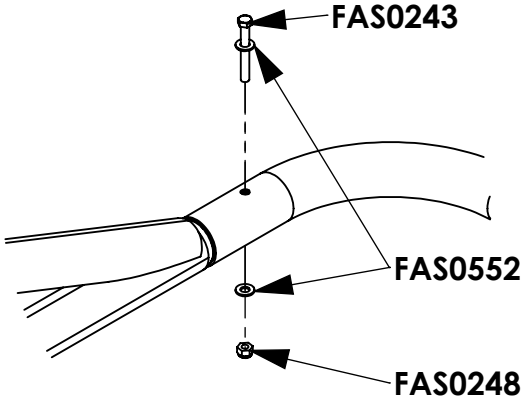
SLRT ONLY

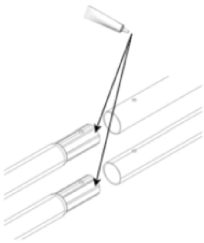
(2) PLACES
1/2 WRENCH
1/2 SOCKET

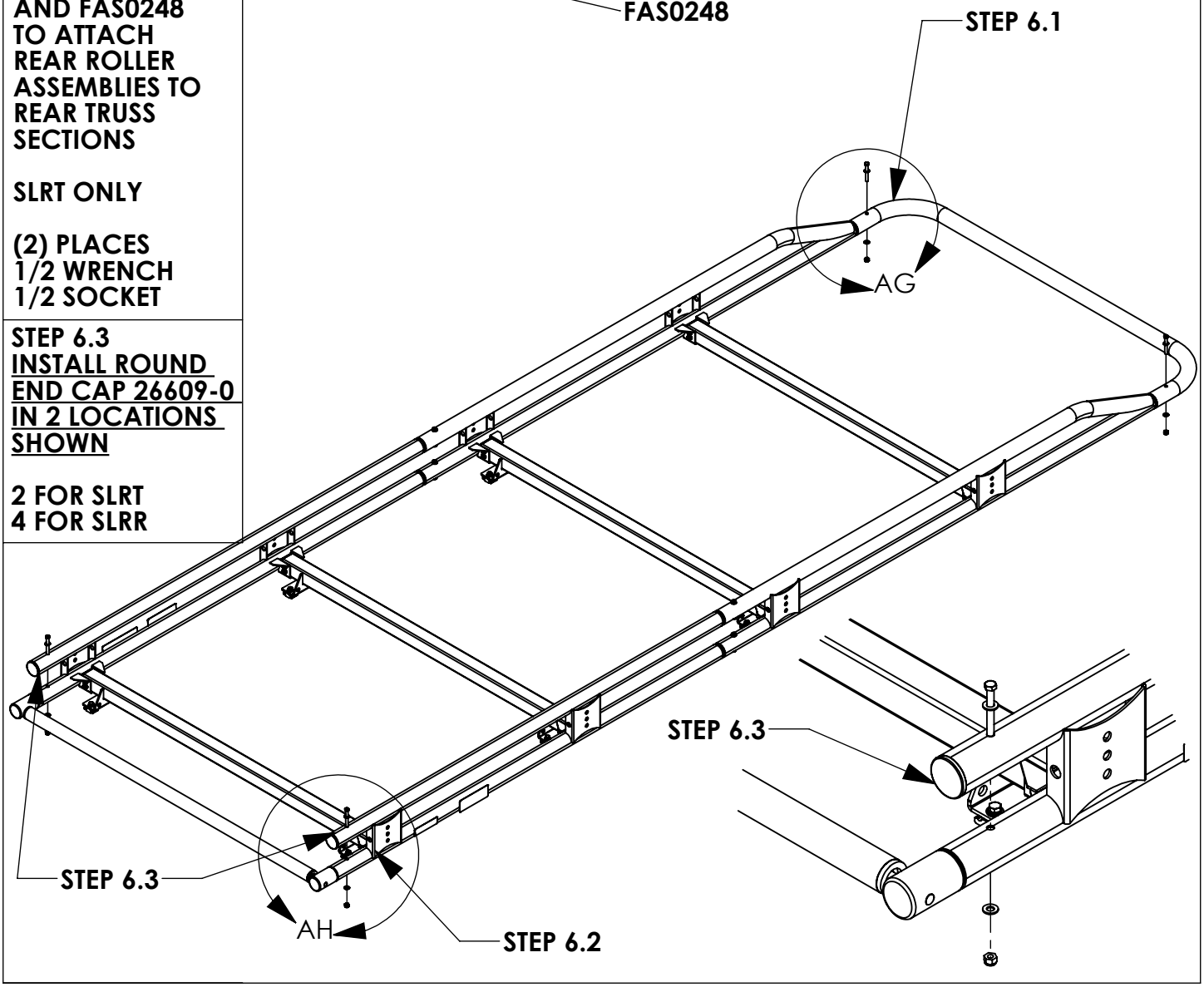
STEP 6.3
INSTALL ROUND END CAP 26609-0 IN 2 LOCATIONS SHOWN

2 FOR SLRT
4 FOR SLRR

ADD ½" OF BUTYL TAPE TO EACH END OF ALL FASTENERS. APPLY A GENEROUS RING OF SEALANT TO END OF THE TRUSS BEFORE ASSEMBLING.



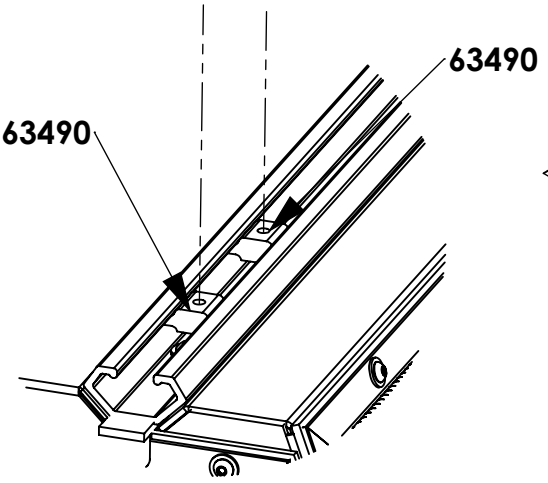


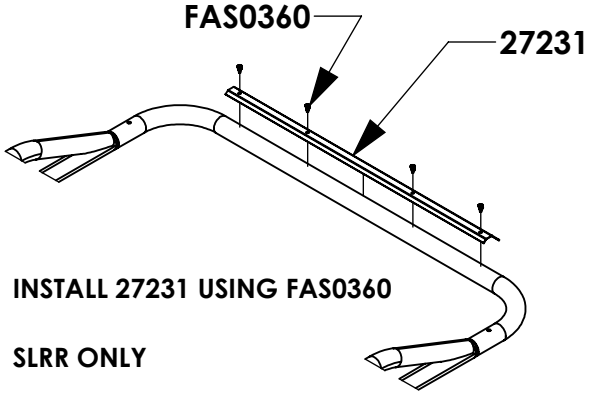


STEP 7 - ADD SLIDES TO TOPPER ROOF RAIL CHANNEL AND CENTER RACK ON ROOF

STEP 7.1
PLACE 6 RAIL SLIDES IN EACH TOPPER ROOF RAIL

CENTER RACK ON ROOF AND ALIGN SLIDES WITH CROSSBOW FEET MTG HOLES

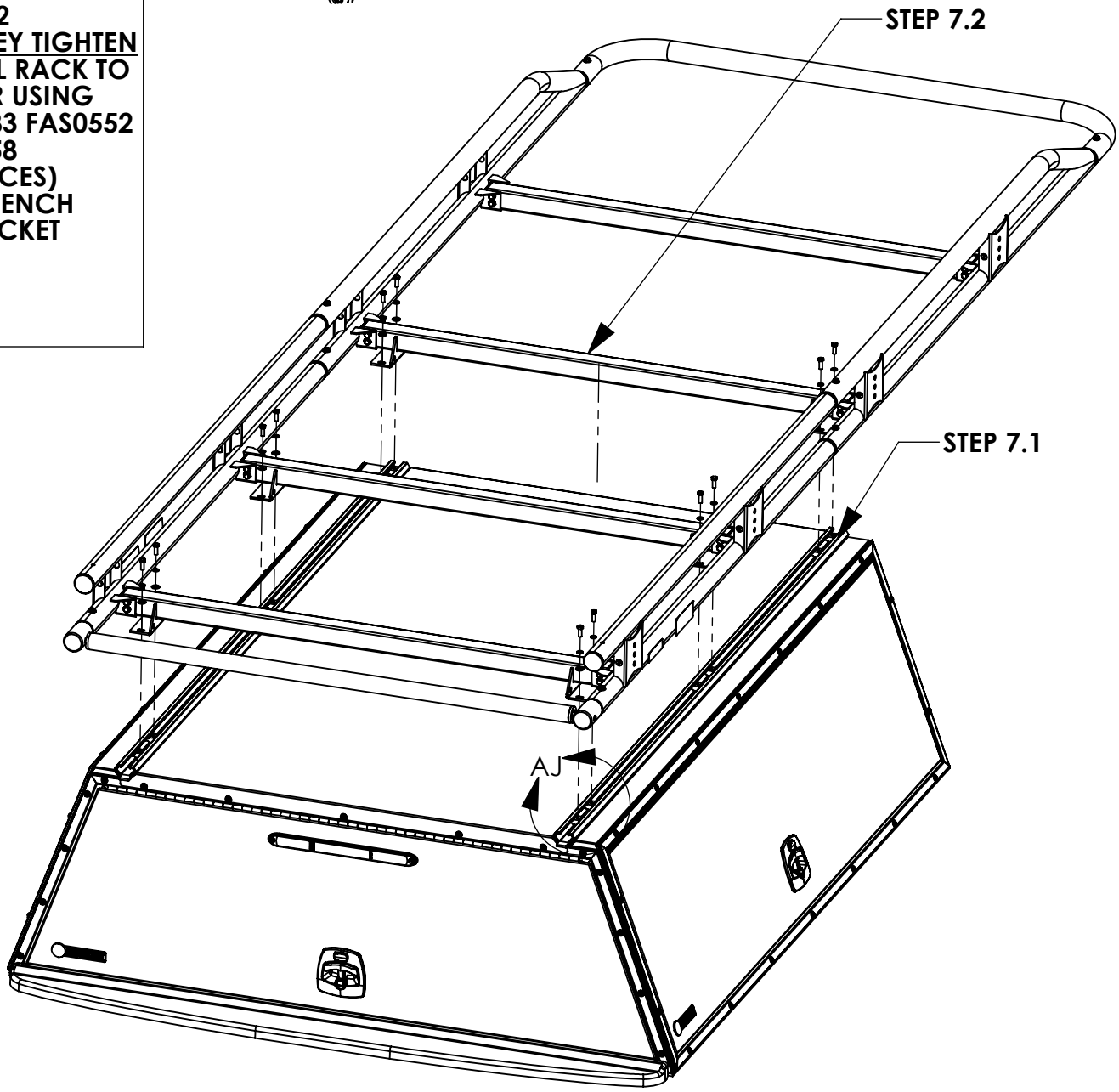




INSTALL 27231 USING FAS0360

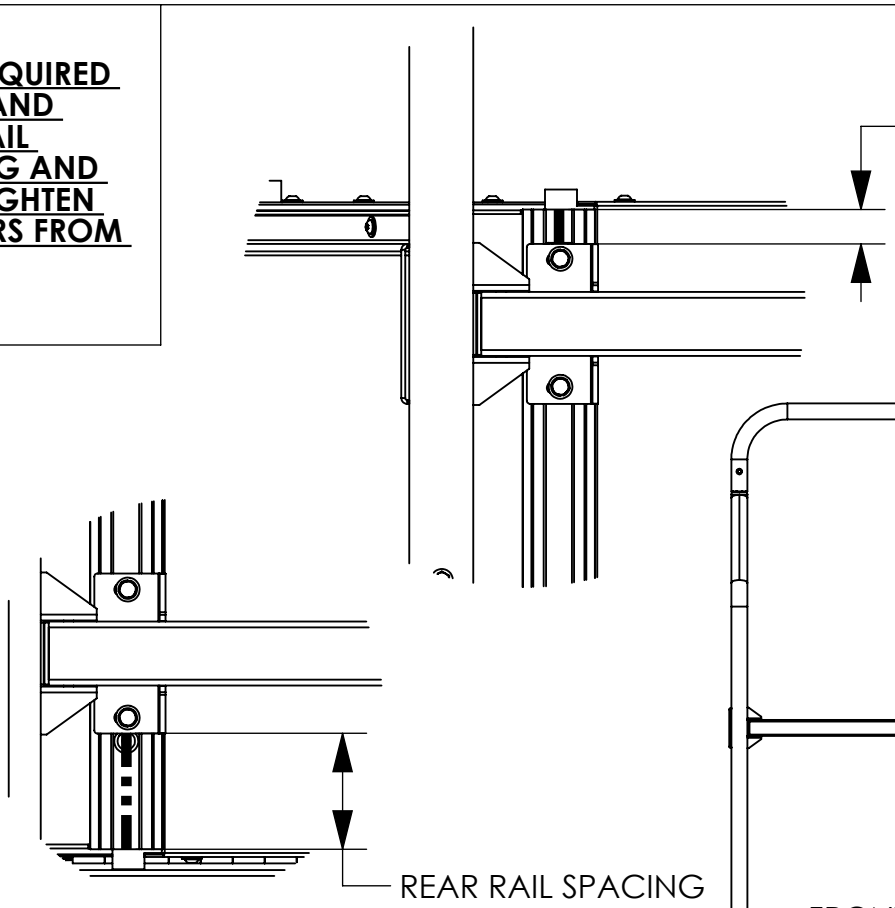
SLRR ONLY

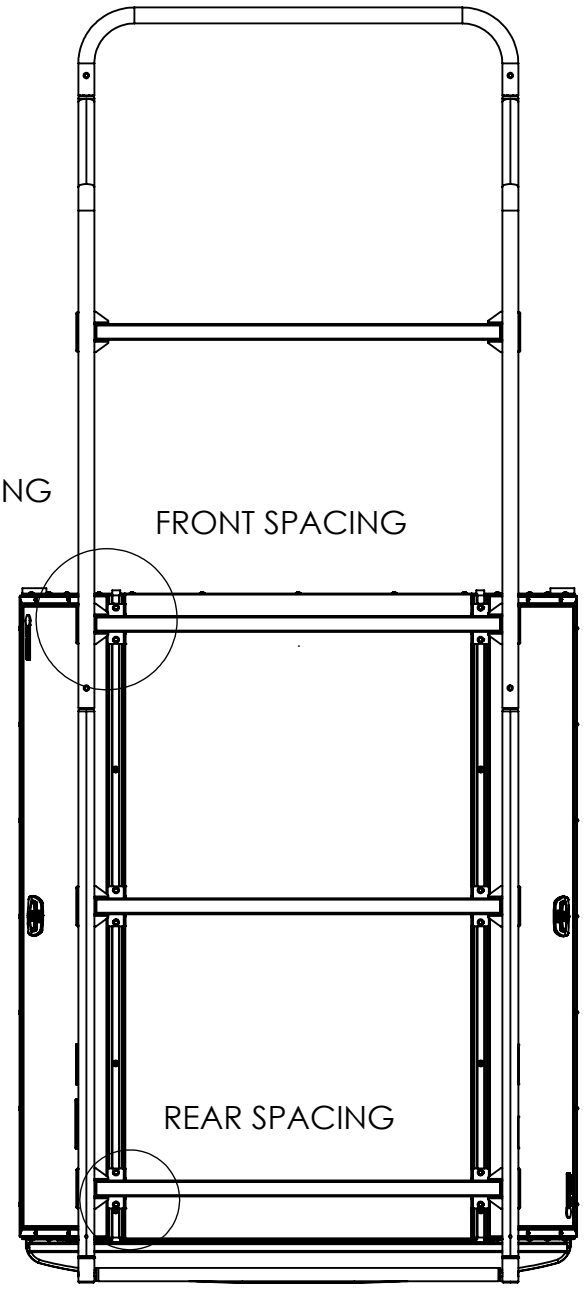
STEP 7.2
LOOSLEY TIGHTEN INSTALL RACK TO TOPPER USING FAS0283 FAS0552 FAS0558 (12PLACES)
1/2 WRENCH
1/2 SOCKET



STEP 8 - ADD SLIDES TO TOPPER ROOF RAIL CHANNEL AND CENTER RACK ON ROOF

STEP 8.1
MEET REQUIRED FRONT AND REAR RAIL SPACING AND FULLY TIGHTEN FISTENERS FROM STEP 7





VARIANT	DIM TO REAR	DIM TO FRONT
5.5 FT	3.5"	1"
6.3 FT	1"	0"
6.5 FT	3.5"	1.25"
6.8 FT	3.5"	1.25"
8 FT	2.5"	0.25"

INSTALL IS NOW COMPLETE