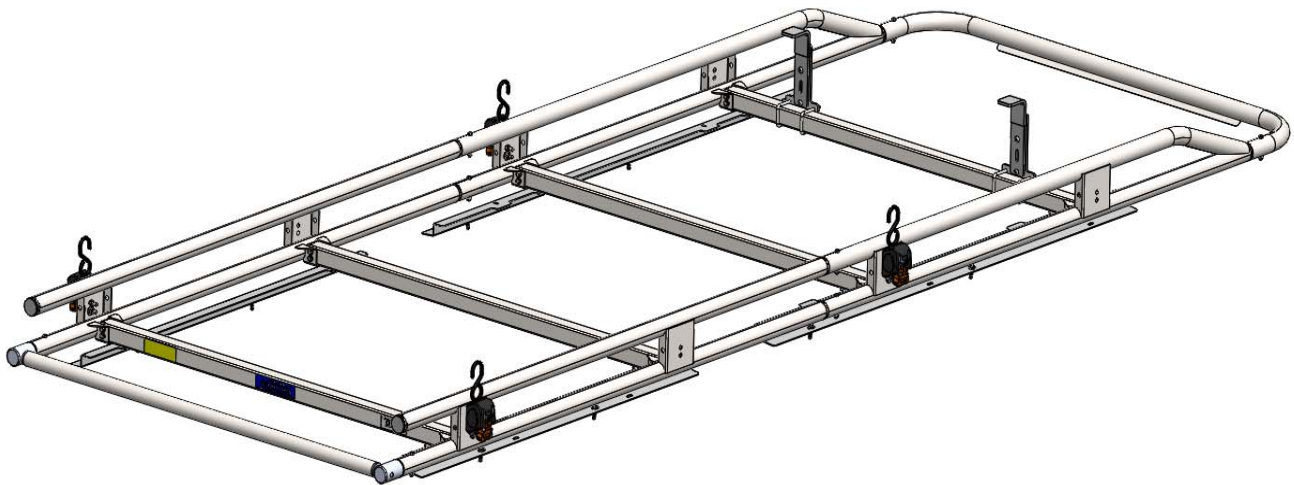


Introduction / Comments:

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
DRILLING TO 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

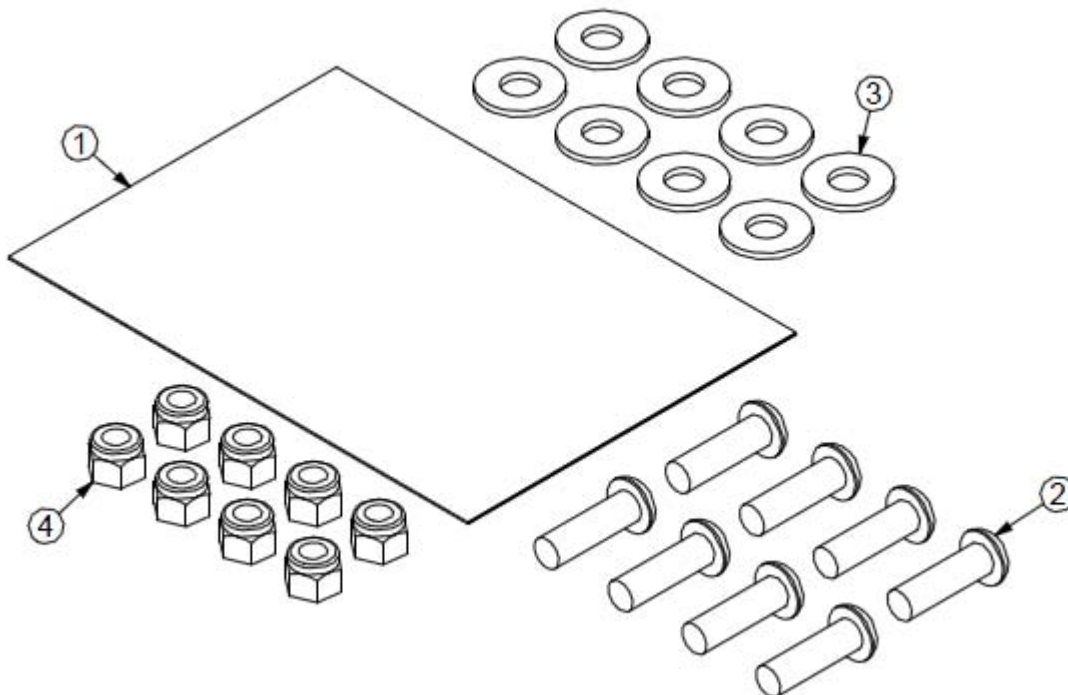


MEASURING TAPE

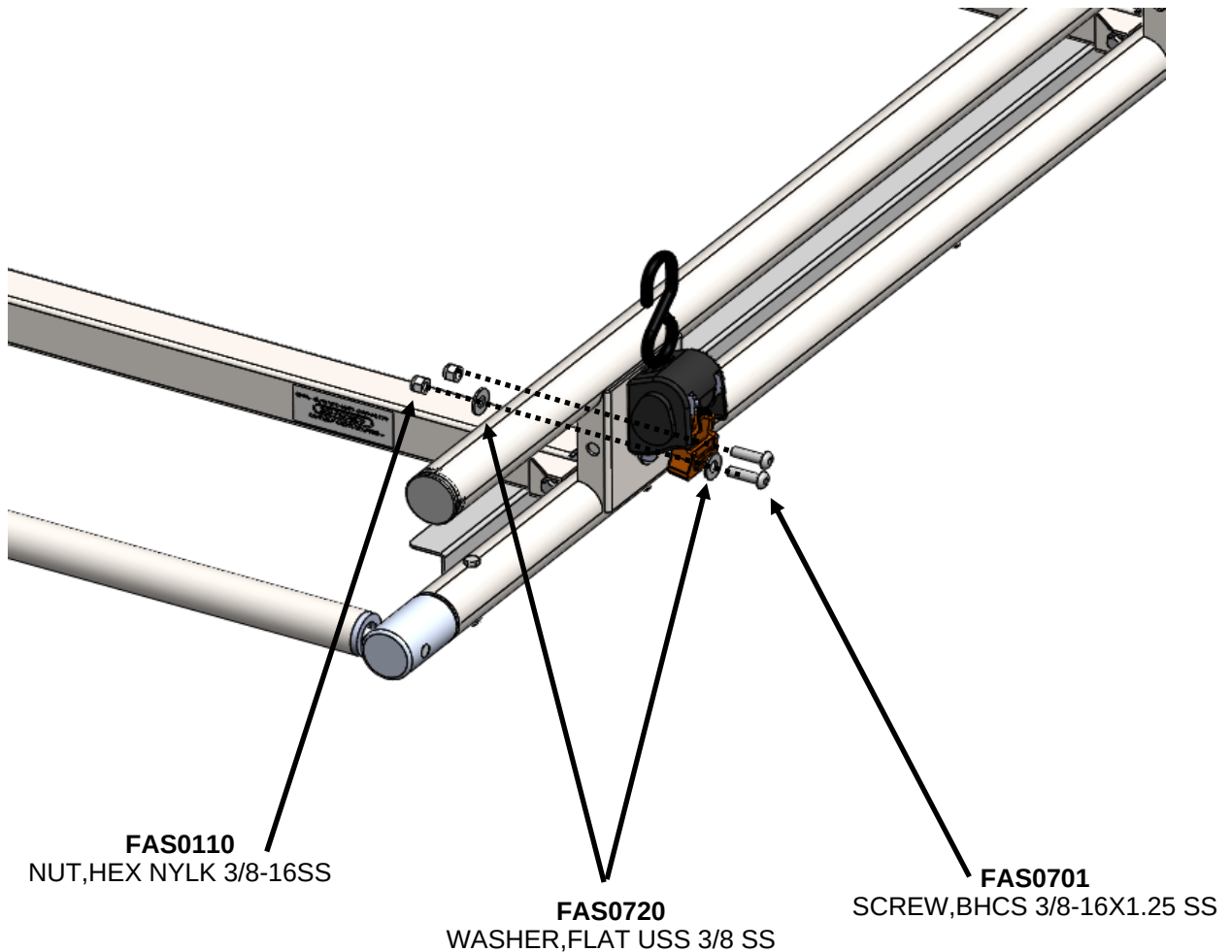
ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.

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 Nylok 3/8-16 SS W	8

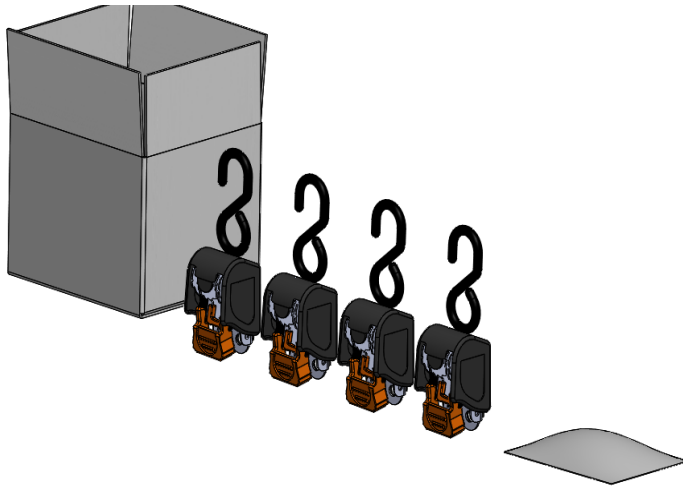


Step 01 Attach Ratchets to the trusses using fasteners in BAG60504. Washers are only installed on the lower bolt.



**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.



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
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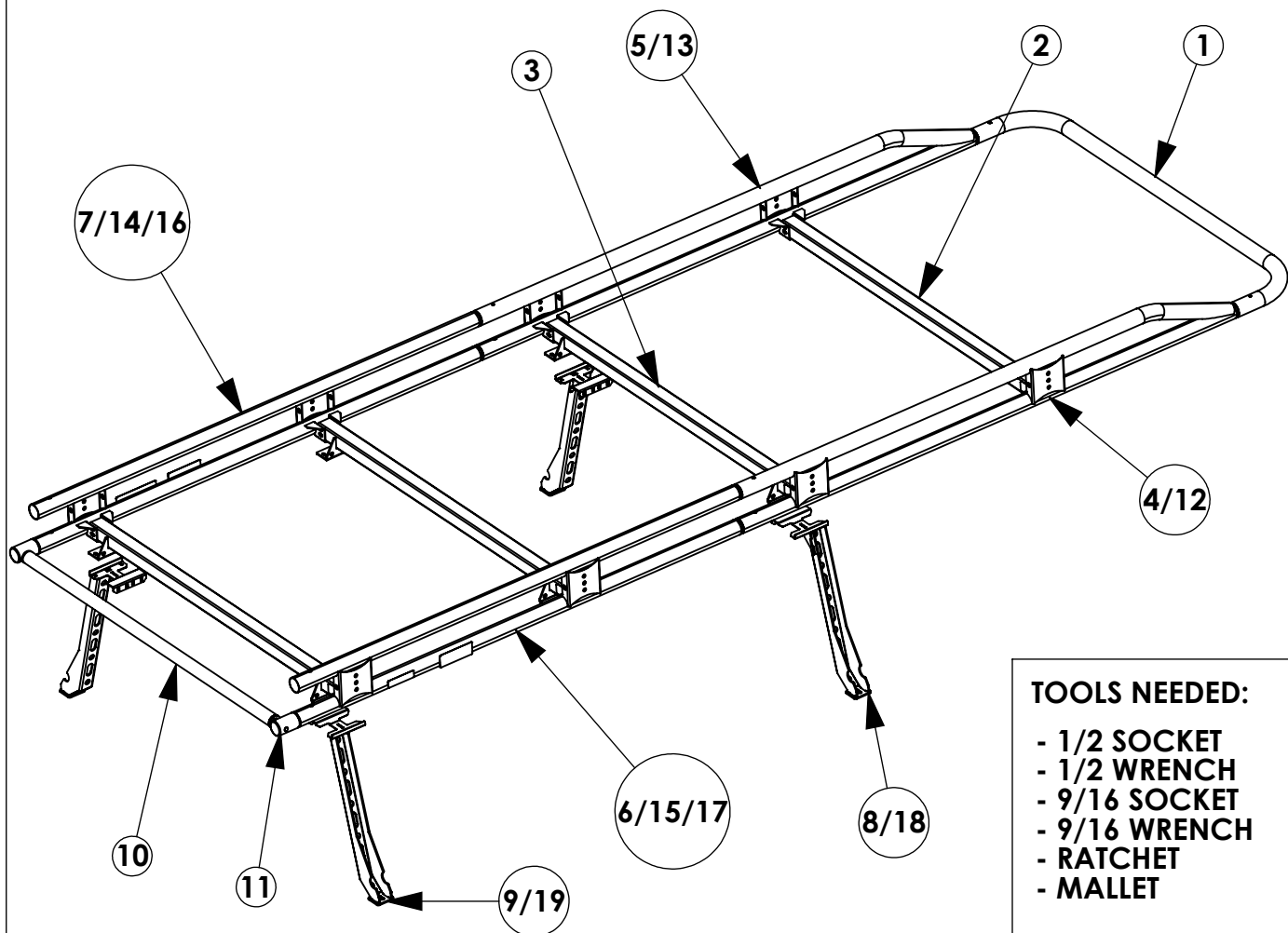
60413	JCI, Load Runner. Transit
--------------	----------------------------------

SPECIAL APPLICATION NOTES

INSTR. : 77707		PG: 1	REV: C	ITEM NO.	PART NUMBER	DESCRIPTION	5.5	6.3/6.5/6.7	8
PART : SLRT RACKS				1	26572-0	CROSS TUBE FRONT	-	1	1
PART : SLRT RACKS				2	26575-0	CROSSBAR ASSY MIDDLE	-	1	1
PART : SLRT RACKS				3	77400-B	CROSSBOW ASSEMBLY, BLK	-	3	-
PART : SLRT RACKS				4/12	77401-B	FRONT PS TRUSS, 6.5',EXT, BLK	-	1	-
PART : SLRT RACKS				5/13	77402-B	FRONT DS TRUSS, BLK	-	1	-
PART : SLRT RACKS				6/15/17	77403-B	REAR PS TRUSS,6.5',CREW, BLK	-	1	-
PART : SLRT RACKS				7/14/16	77404-B	REAR DS TRUSS,6.5',CREW, BLK	-	1	-
PART : SLRT RACKS				8/18	77408-B	POST ASSEMBLY, BLK	-	2	-
PART : SLRT RACKS				9/19	77409-B	SHORT MIRRORED POST ASSEMBLY, BLK	-	2	-
PART : SLRT RACKS				10	77407	ROLLER TUBE ASSM, TRANSIT LR	-	1	-
PART : SLRT RACKS				11	60498-B	LR ROLLER EXTENSION ASM	-	2	-
PART : SLRT RACKS				12	77598-B	FRONT PS TRUSS,8' BLK	-	-	1
PART : SLRT RACKS				13	77599-B	FRONT DS TRUSS,8' BLK	-	-	1
PART : SLRT RACKS				14	77596-B	REAR DS TRUSS, 8' BLK	-	-	1
PART : SLRT RACKS				15	77597-B	REAR PS TRUSS, 8' BLK	-	-	1
PART : SLRT RACKS				16	77594-B	REAR DS TRUSS, 5.5' BLK	1	-	-
PART : SLRT RACKS				17	77594-B	REAR PS TRUSS, 5.5' BLK	1	-	-

NOTE: THIS INSTRUCTION IS VALID FOR THE FOLLOWING KITS:

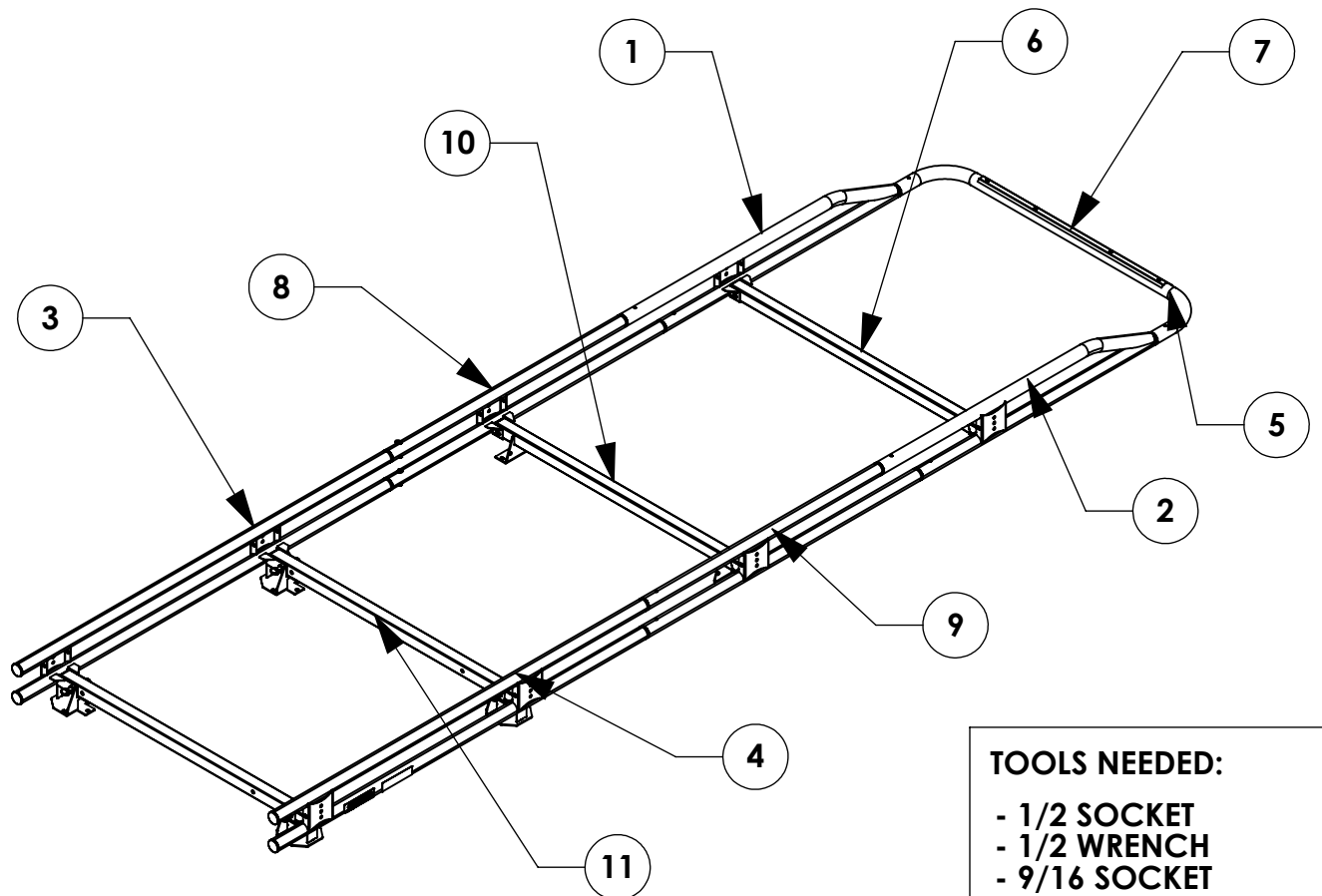
- 5.5 PERIMETER RACK
- 6.5 PERIMETER RACK
- 8 PERIMETER RACK
- SLRR-6FC23
- SLRR-8FC23



TOOLS NEEDED:

- 1/2 SOCKET
- 1/2 WRENCH
- 9/16 SOCKET
- 9/16 WRENCH
- RATCHET
- MALLET

INSTR. : 77707 NUMBER	PG: 2	REV: C	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	PART : SLRR RACKS NUMBER		1	81177-B	3 PIECE FRONT TRUSS DS, BLK	1
PART : ASSEMBLY DESC. :			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
NOTE: THIS INSTRUCTION IS VALID FOR THE FOLLOWING KITS: - 5.5 PERIMETER RACK - 6.5 PERIMETER RACK - 8 PERIMETER RACK - SLRR-6FC23 - SLRR-8FC23			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

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 HARNESSSES 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).

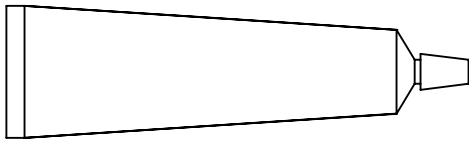
THRU-BOLT CLEARANCE - WHEN USING A THRU-BOLT AT ANY MOUNTING LOCATION, BE SURE THAT YOUR HOLE HAS 1/16" CLEARANCE.

PAGE:

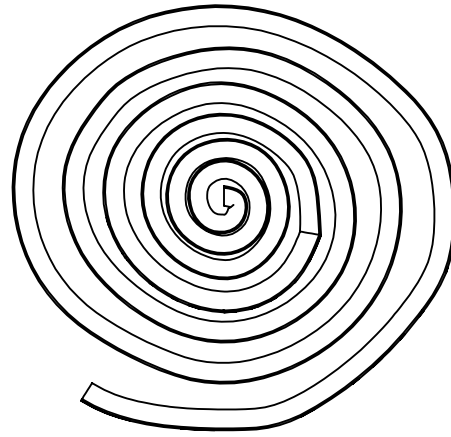
4

FASTENERS USED

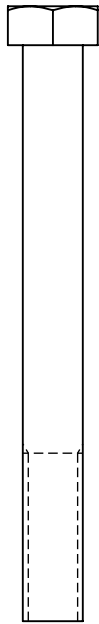
BAG REFERENCE: BAG77706



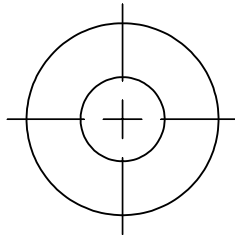
26618-0
Silicone Sealant
QTY: 1



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



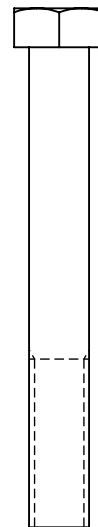
FAS0244
SCREW,HH 5/16-18X3 SS
QTY: 16



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



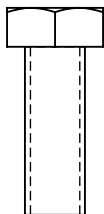
FAS0110
NUT,HEX NLK 3/8-16 SS W
QTY: 4



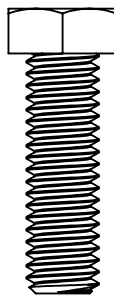
FAS0243
SCREW,HH 5/16-18X2.5 SS
QTY: 8



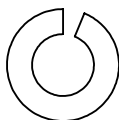
FAS0248
NUT,HEX NLK 5/16-18 SS
QTY: 24



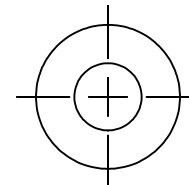
FAS0283
SCREW,HH 5/16-18X.875 SS
QTY: 12



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

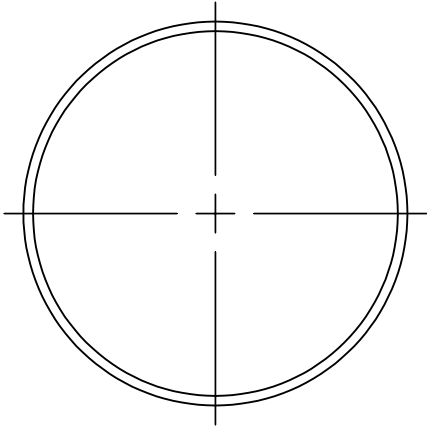
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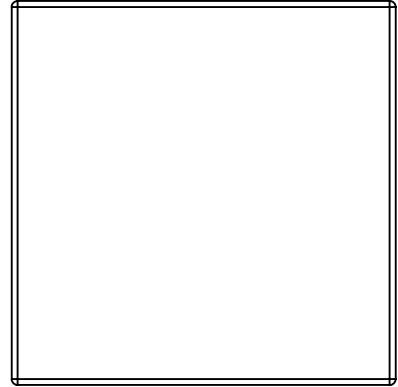
6

FASTENERS USED

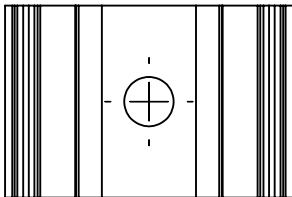
BAG REFERENCE: BAG77701



**26609-0
PLUG ROUND 2"
QTY:2**

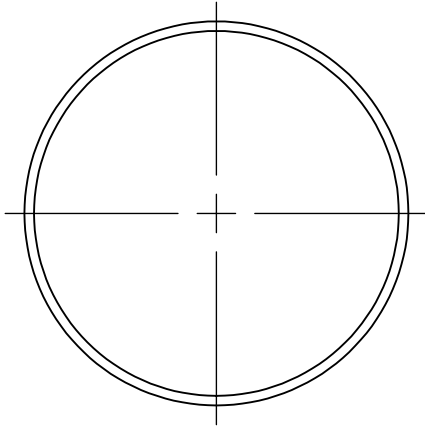


**26610-0
Plug Square 2"
QTY:8**

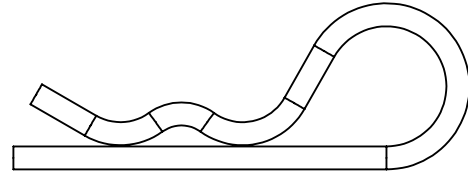


**63490
RAIL SLIDE, 1"
QTY: 12**

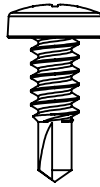
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FASTENERS USED**BAG REFERENCE: BAG80998****NOTE: ONLY FOR SLRR-6FC23 AND SLRR-8FC23**

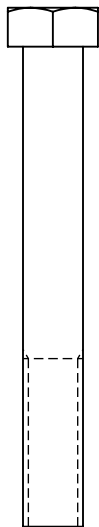
26609-0
PLUG ROUND 2"
QTY:2



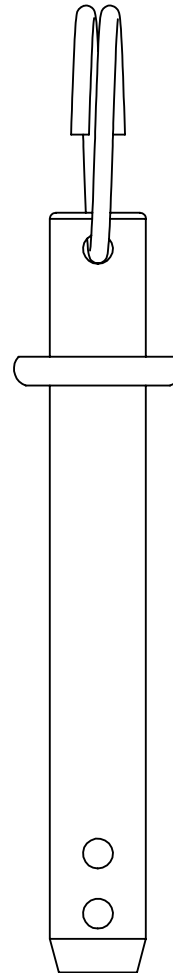
80502
HAIRPIN KEY FOR .5" CLEVIS PIN
QTY:4



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



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



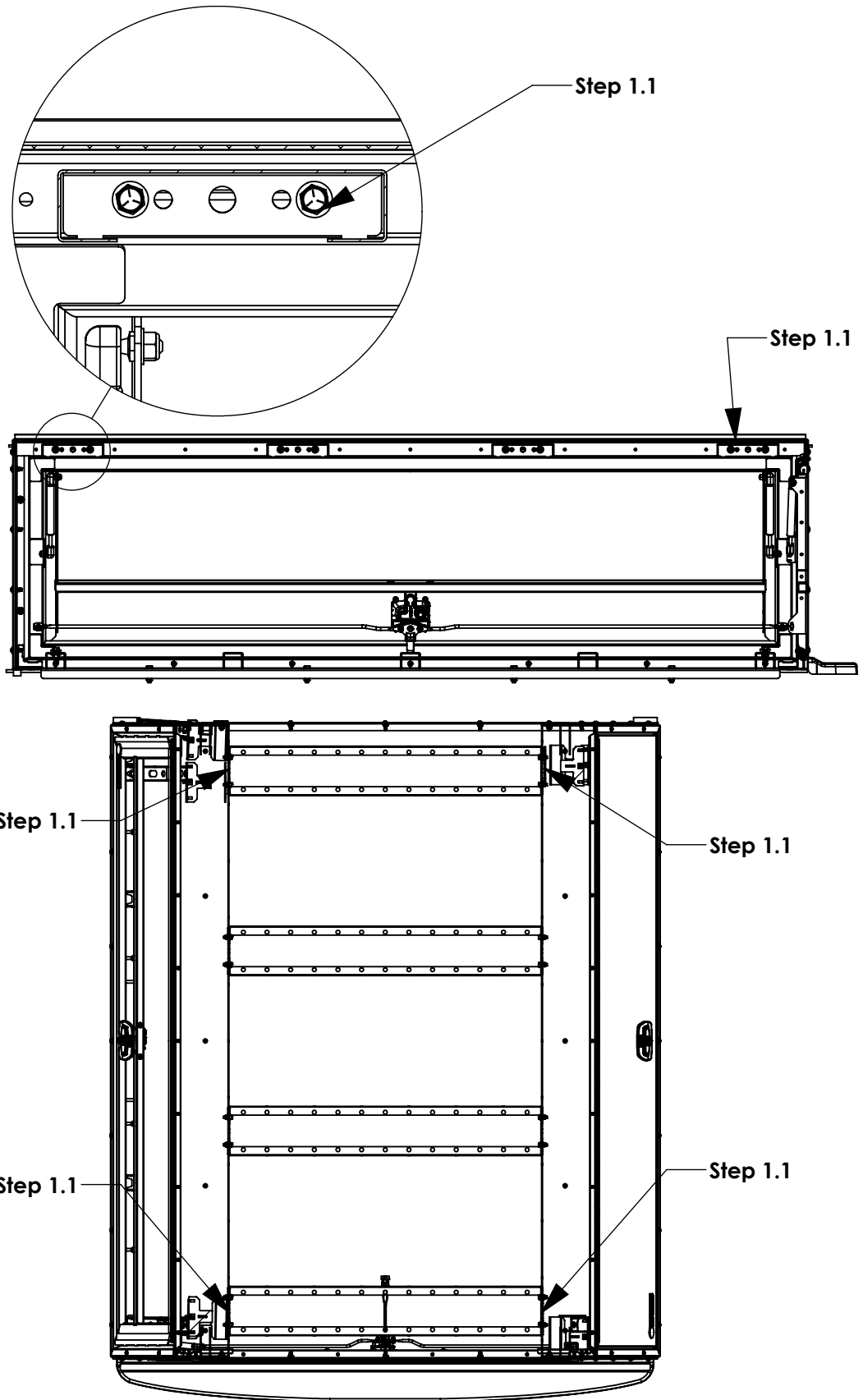
26611-0
RING PIN ASSEMBLY
QTY:4

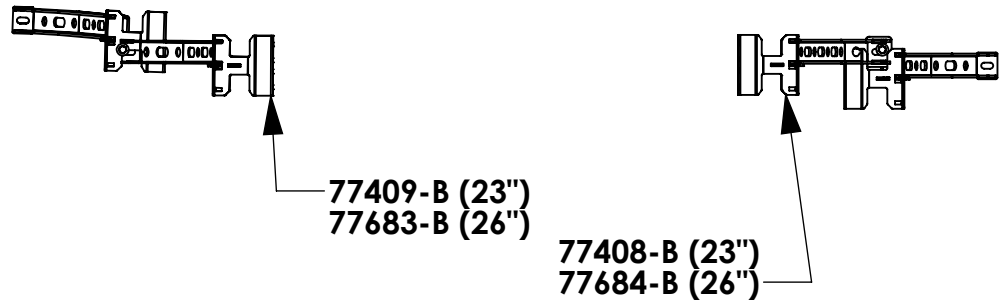
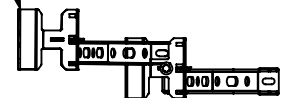
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**STEP 1 - REMOVE TOPPER ROOF CROSS CAR
SUPPORTS AND SET ASSIDE**

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

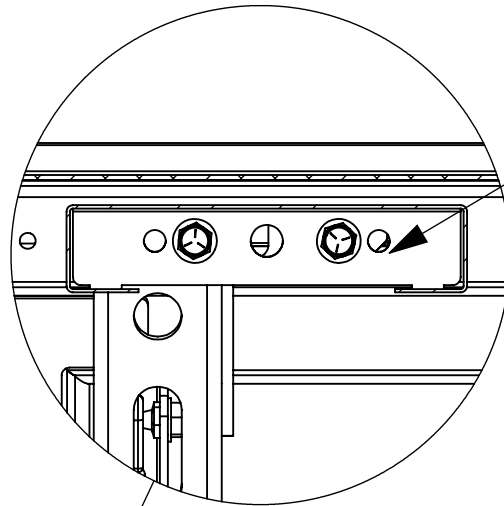


STEP 2- LOCATE CORNER SUPPORTS - PART NUMBERS WILL DIFFER BETWEEN 23" AND 26" TOPPER HEIGHTS**Step 2.1
LOCATE
CORNER
SUPPORTS AND
STAGE FOR
INSTALL****OPEN BOTH SIDE
DOORS OF
TOPPER FOR
NEXT STEPS****NOTE: NOT
NEEDED FOR
SLRR-6FC23 AND
SLRR-8FC23****FRONT****DS****PS****77409-B (23")
77683-B (26")****77408-B (23")
77684-B (26")****REAR**

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

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

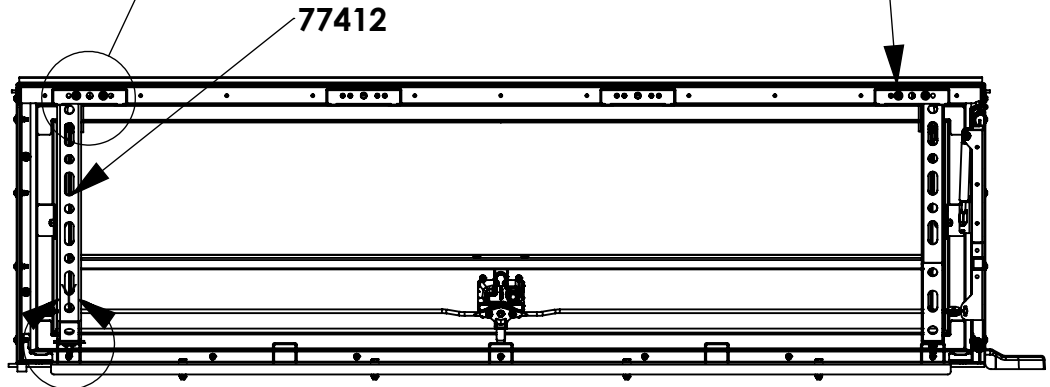
NOTE: NOT
NEEDED
FOR SLRR-
6FC23
AND SLRR-
8FC23



Step 2.1

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

Step 2.2

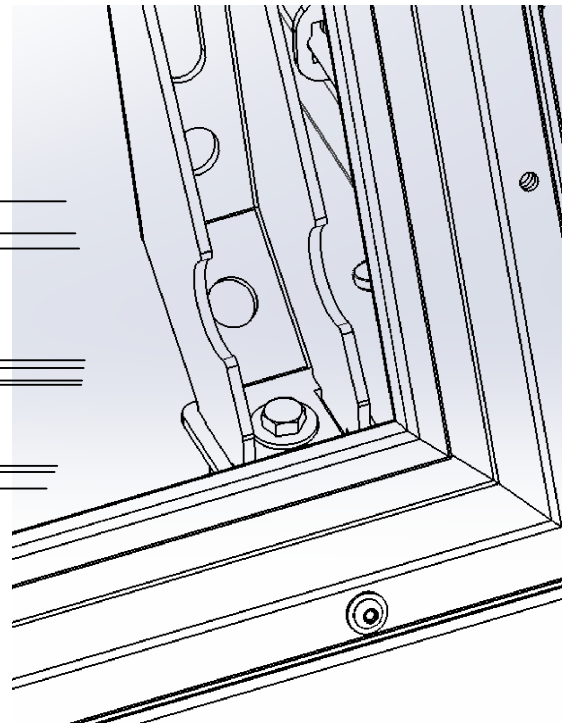


77412

FAS 0720

FAS0294

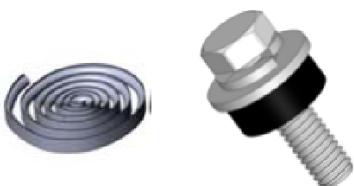
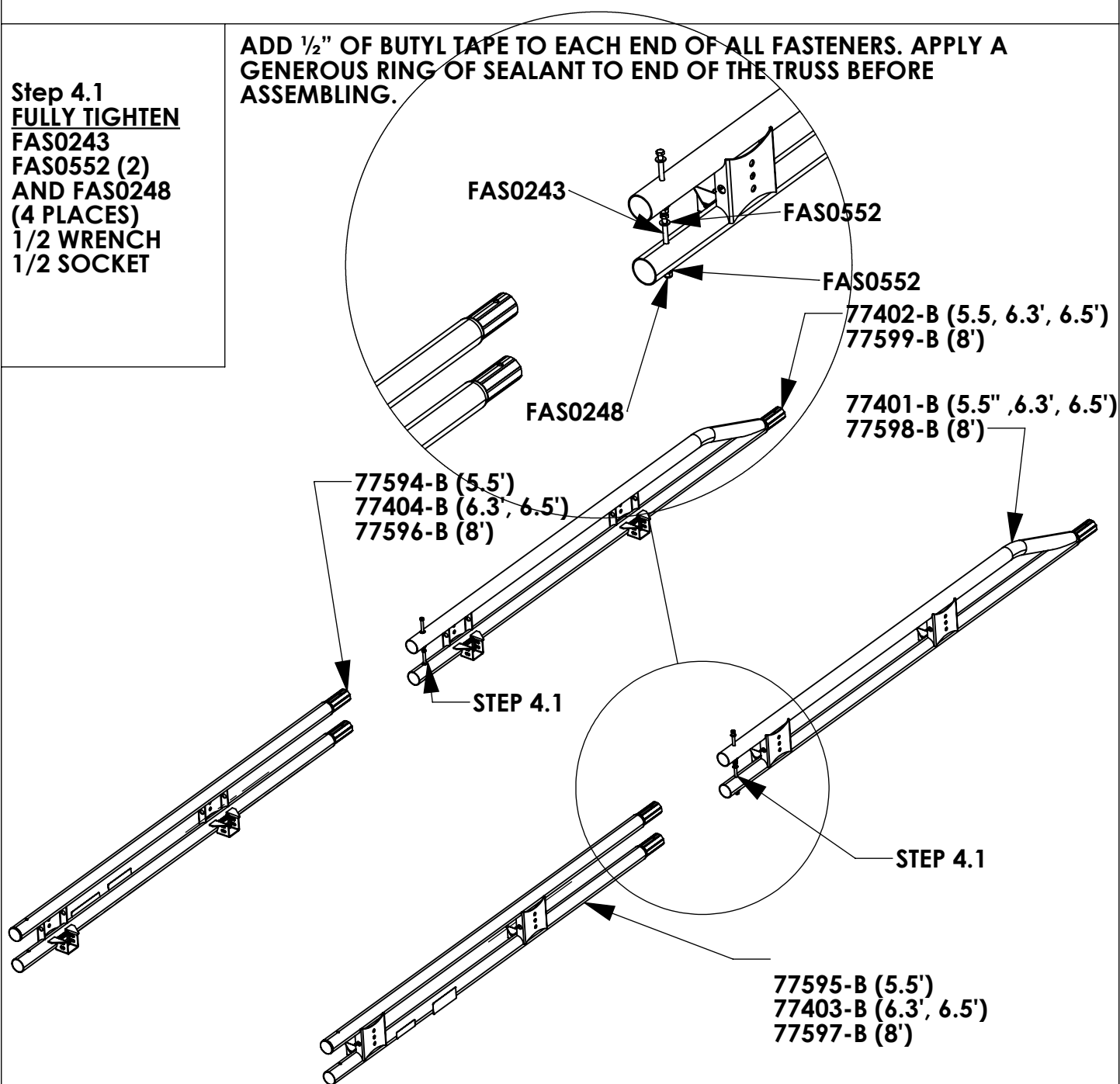
FAS0110



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 1/2" OF BUTYL TAPE TO EACH END OF ALL FASTENERS. APPLY A
 GENEROUS RING OF SEALANT TO END OF THE TRUSS BEFORE
 ASSEMBLING.**

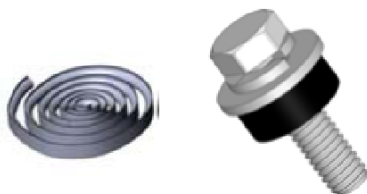
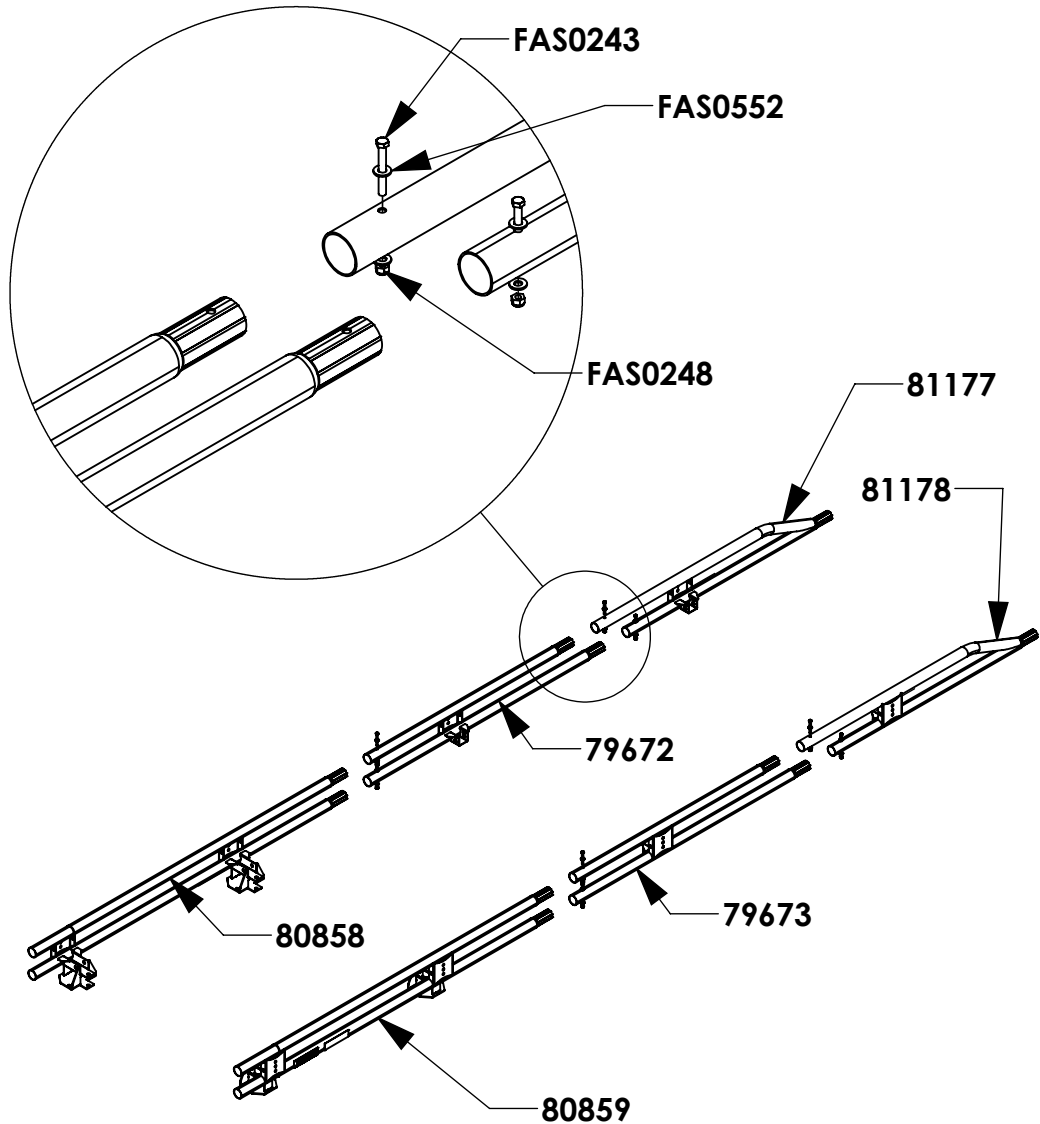


**GENERIC PICTURE—MAY NOT LOOK LIKE
 YOUR FASTENER.**

**MOUNTING SCREW WITH WASHERS AND BU-
 TYL TAPE BEFORE INSTALLATION (LEFT)AND
 WHAT IT SHOULD LOOK LIKE AFTER INSTALLA-
 TION (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).

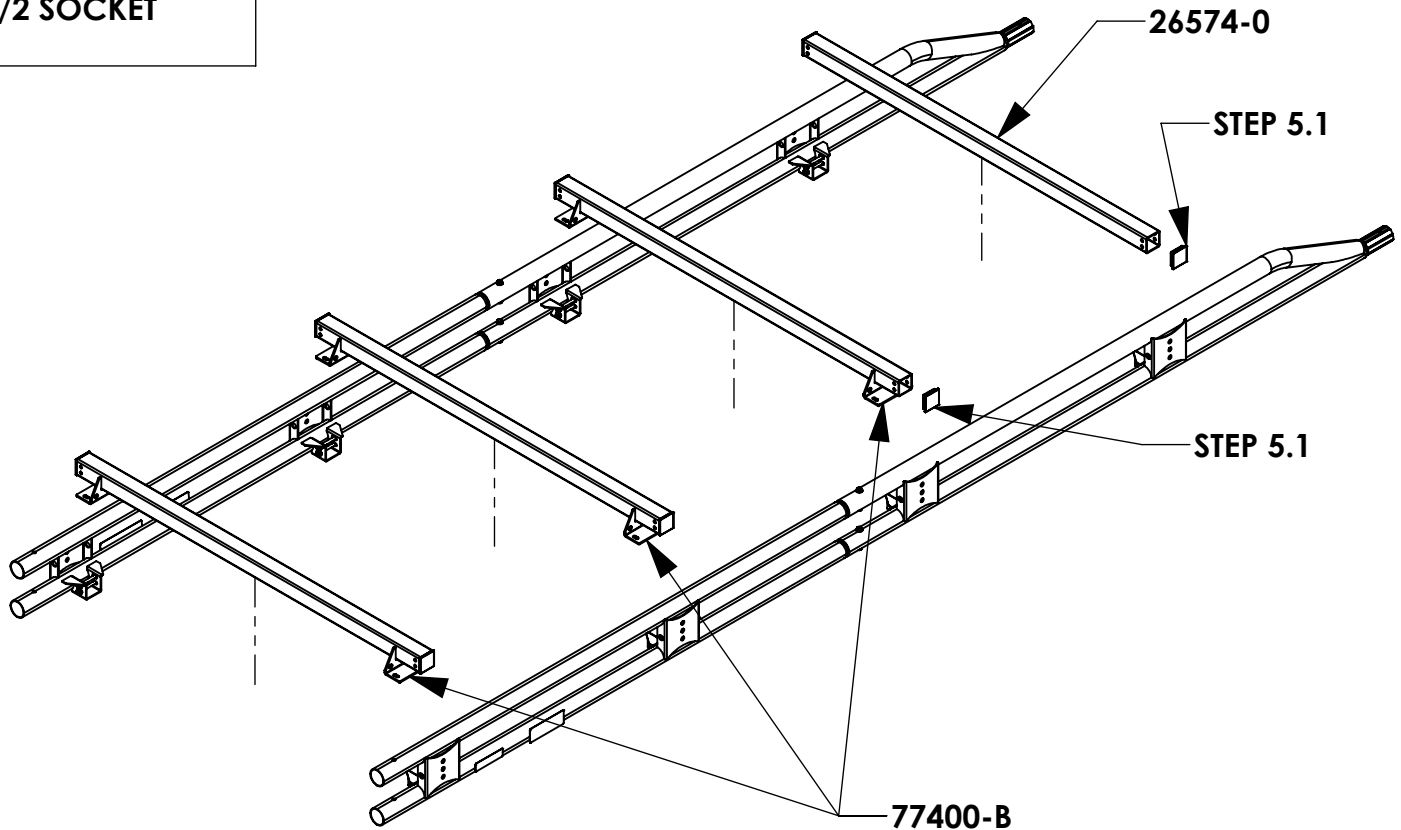
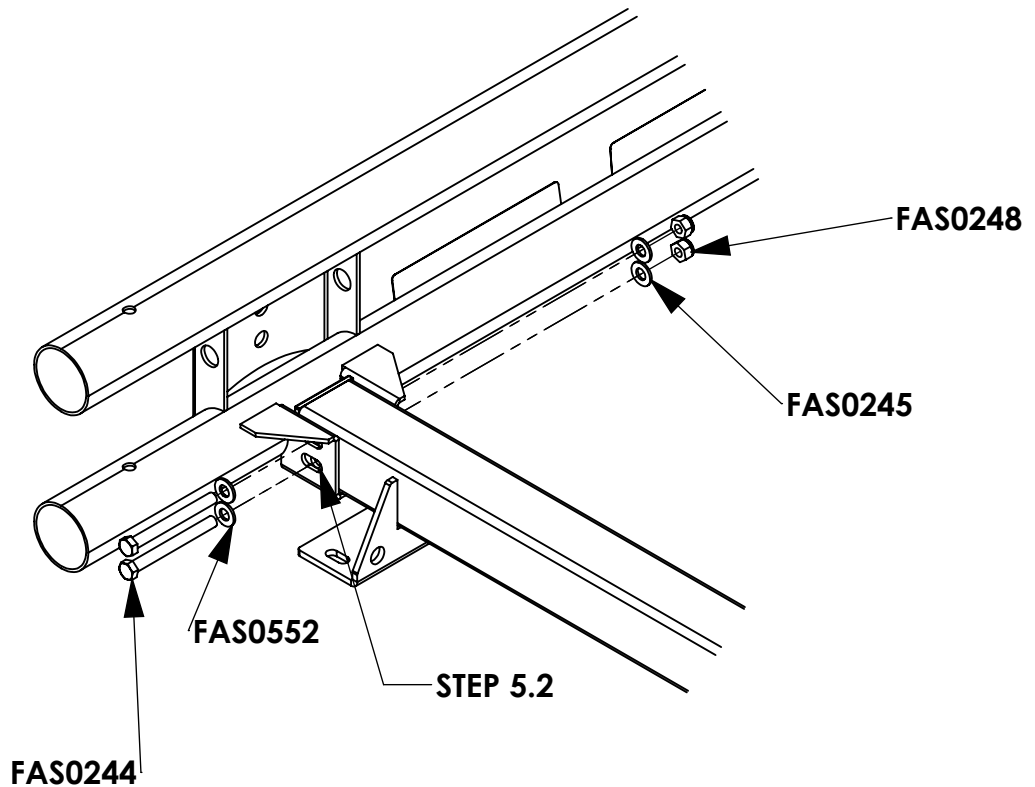
STEP 5 - INSTALL CROSSBARS

Step 5.1
INSTALL SQUARE
ENDCAPS ON
ALL 4
CROSSBARS

(8) PLACES

Step 5.2
FULLY TIGHTEN
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

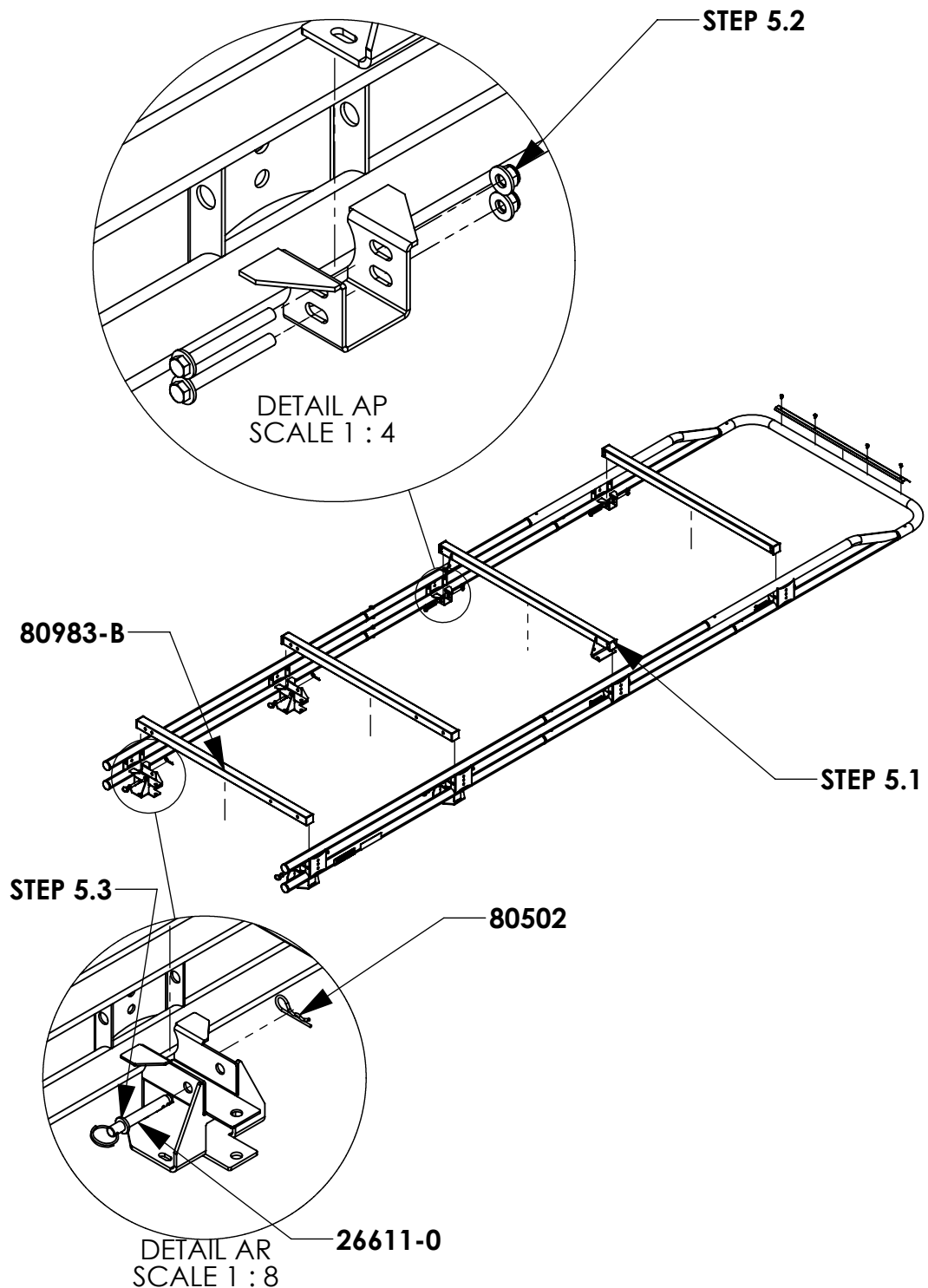
Step 5.1
INSTALL
SQUARE
ENDCAPS ON
ALL 4
CROSSBARS

(8) PLACES

Step 5.2
FULLY TIGHTEN
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)

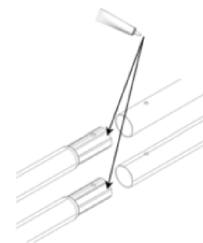
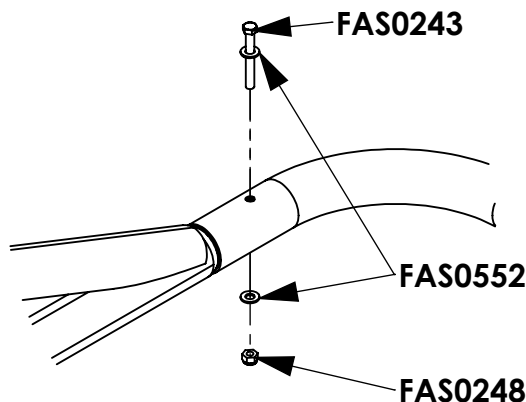


STEP 6 - INSTALL FRONT HOOP AND REAR ROLLER

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

ADD 1/2" OF BUTYL TAPE TO EACH END OF ALL FASTENERS. APPLY A GENEROUS RING OF SEALANT TO END OF THE TRUSS BEFORE ASSEMBLING.



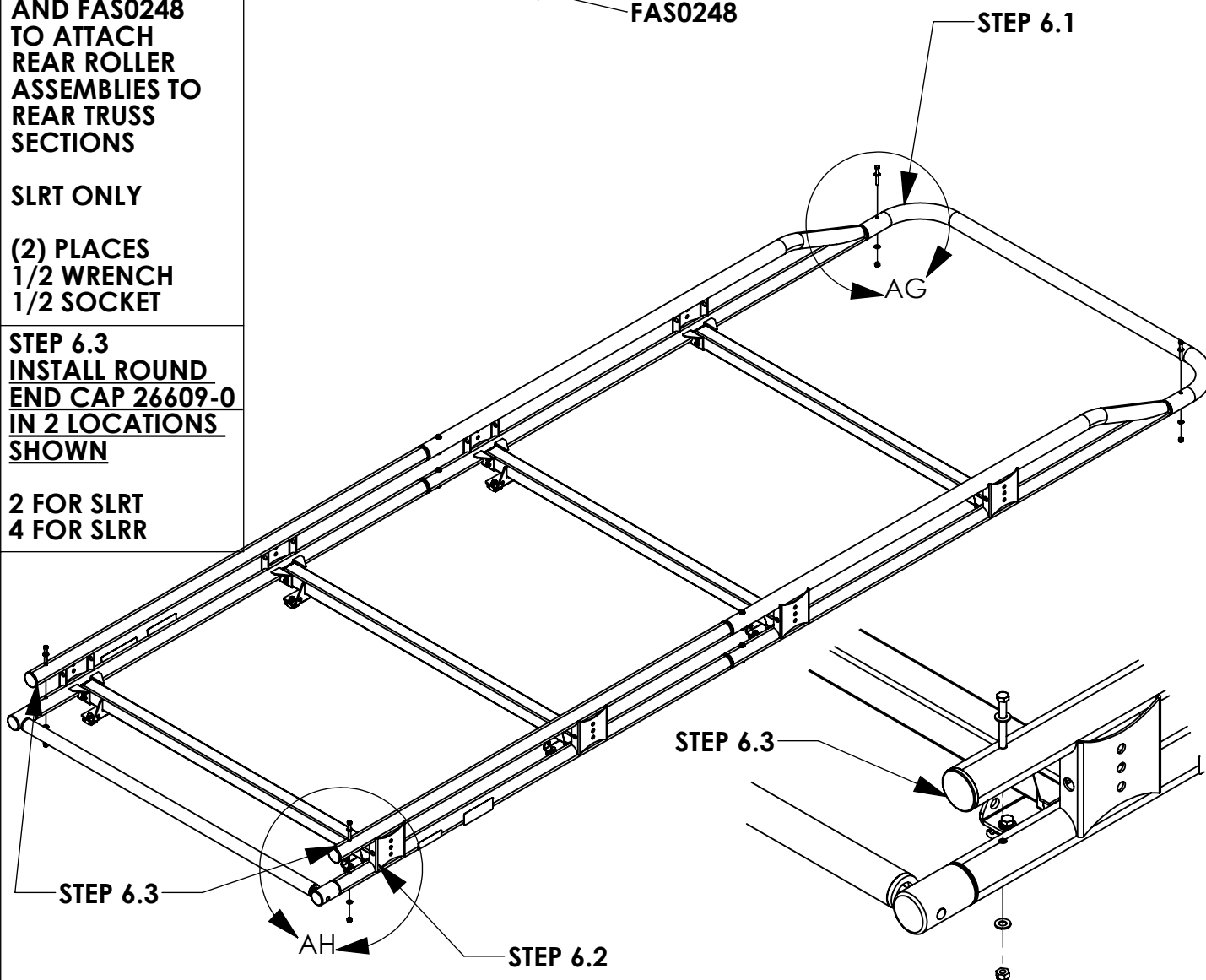
STEP 6.2
FULLY TIGHTEN
FAS0243
FAS0552 (2)
AND FAS0248
TO ATTACH
REAR ROLLER
ASSEMBLIES TO
REAR TRUSS
SECTIONS

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

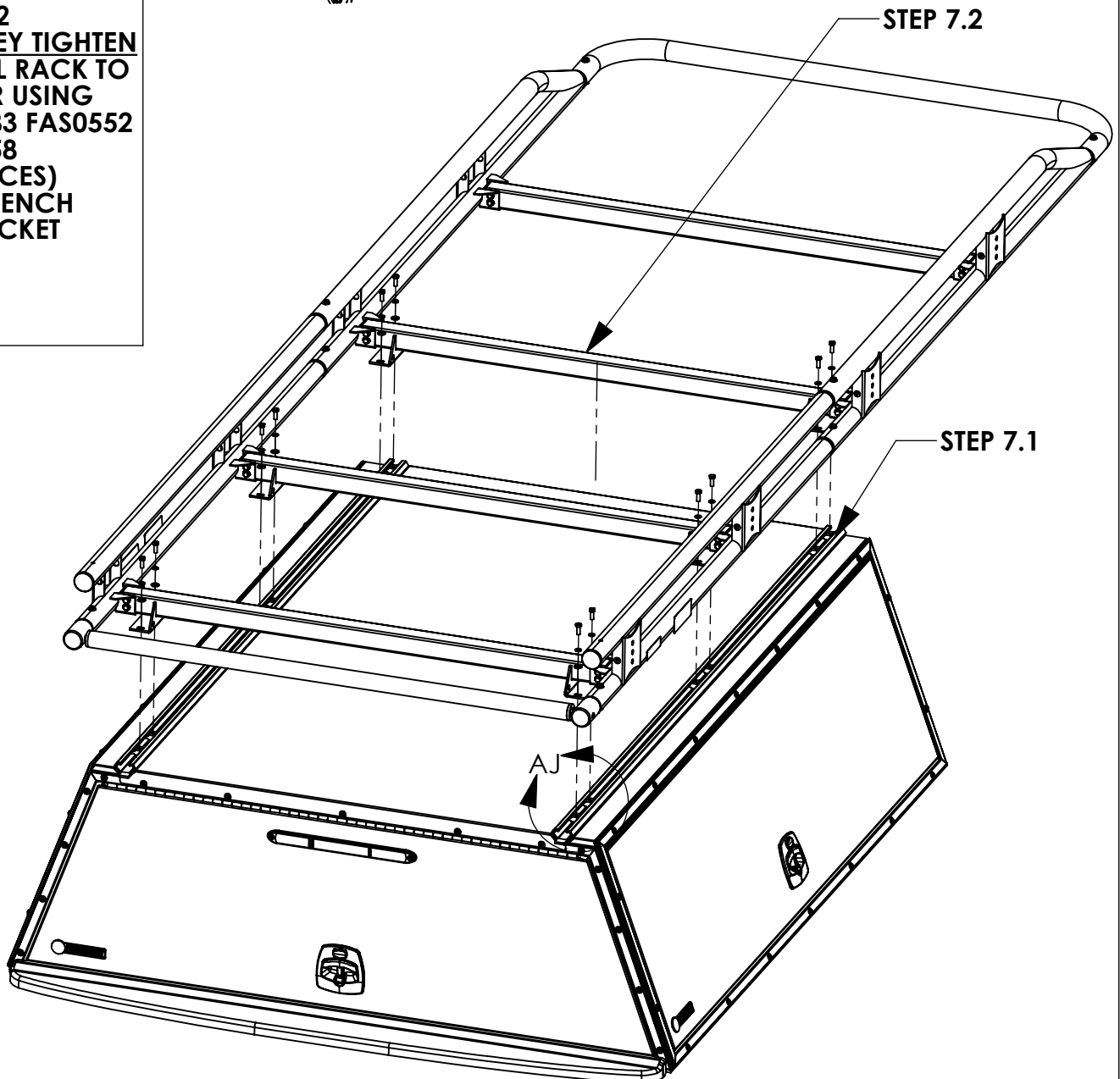
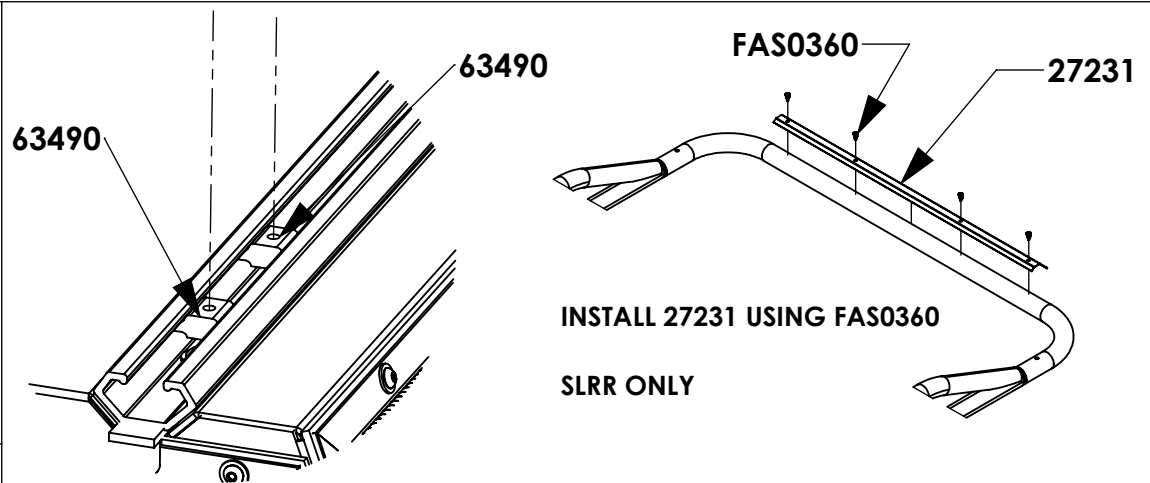


STEP 7 - ADD SLIDES TO TOPPER ROOF RAIL CHANNEL AND CENTER RACK ON ROOF

STEP 7.1
PLACE 6 RAIL
SLIDES IN EACH
TOPPER ROOF
RAIL

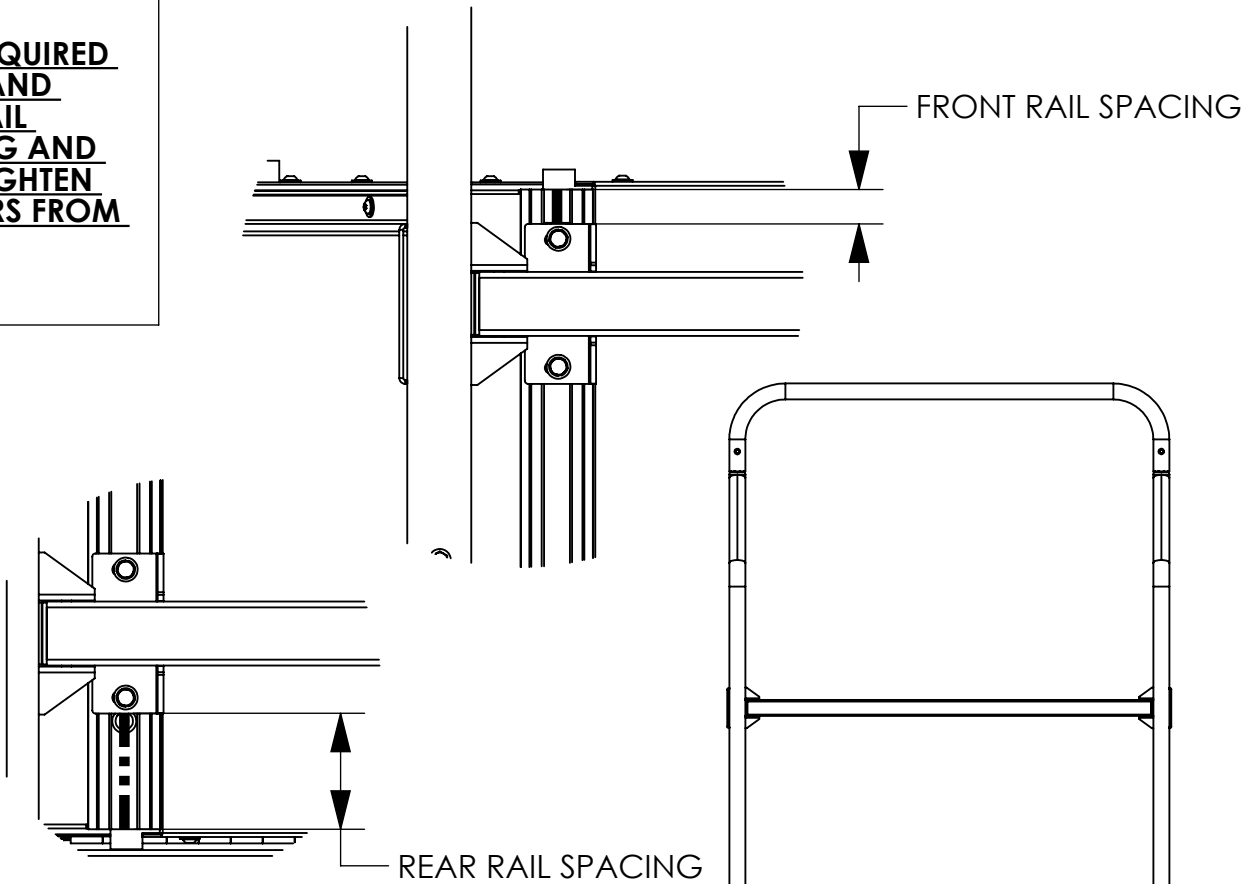
CENTER RACK
ON ROOF AND
ALIGN SLIDES
WITH
CROSSBOW FEET
MTG HOLES

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

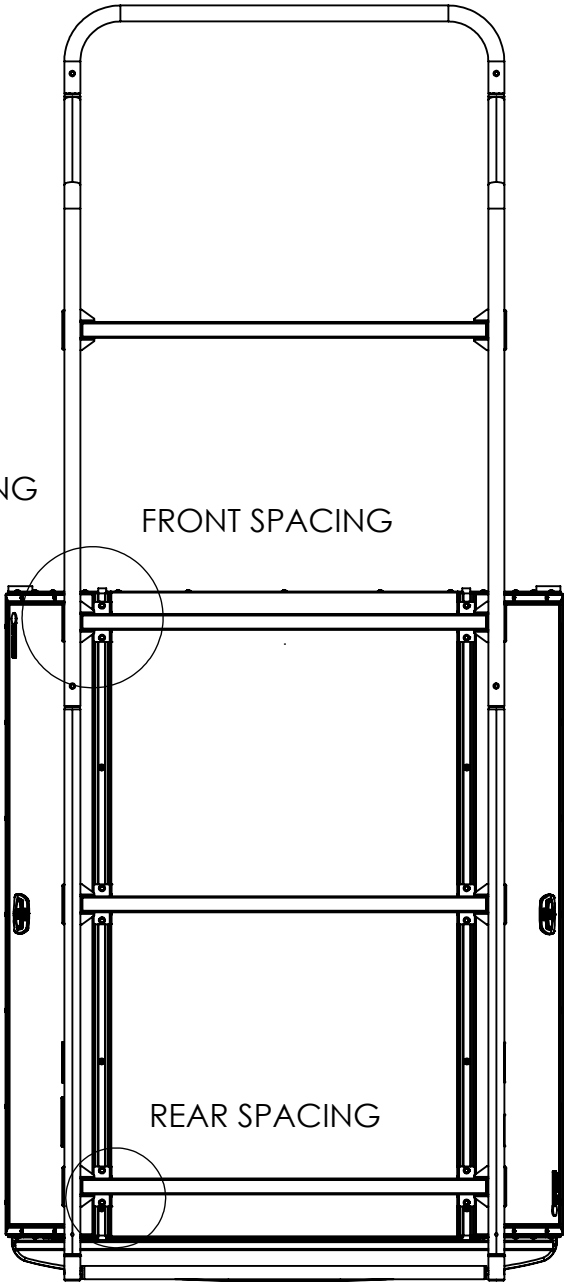


**STEP 8 - ADD SLIDES TO TOPPER ROOF RAIL CHANNEL AND
CENTER RACK ON ROOF**

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