# INSTALLATION GUIDE FOR PROFILE™ SERIES LADDER RACKS

**INSTRUCTION #: 68895**

REV: C

**THIS INSTRUCTION PROVIDES A GENERAL GUIDE OF INSTALLATION SEQUENCE FOR ALL PROFILE™ SERIES LADDER RACKS. PLEASE ENSURE ALL ACCESSORIES ARE INSTALLED PER TYPE OF RACK BEFORE PROCEEDING TO NEXT PAGE.**

**REFERENCE THIS INSTRUCTION THROUGHOUT THE ENTIRETY OF YOUR INSTALL TO PREVENT ACCESSORIES BEING INSTALLED INCORRECTLY/OUT OF SEQUENCE!**

***STEPS 2T - 8T ON PAGE 3 IS THE RECOMMENDED ASSEMBLY SEQUENCE FOR A FULL TABLE ASSEMBLY BEFORE INSTALLING ON THE ROOF OF THE VEHICLE.***

***STEPS 2R - 8R ON PAGE 4 IS AN ALTERNATE ASSEMBLY SEQUENCE TO INSTALL THE RACK ON THE VEHICLE ROOF AS IT IS BUILT.***

**PLEASE SELECT THE ASSEMBLY SEQUENCE THAT BEST WORKS FOR YOU!**

## ASSEMBLY STEPS:

***STEP 1A. SUB-ASSEMBLE EACH CROSSBOW WITH DESIRED ACCESSORIES FOR SECTIONS A.1 & A.2.***

***INSTRUCTIONS FOR EACH KIT CAN BE FOUND IN THEIR RESPECTIVE CARTON!***

**TOP OF CROSSBOW** ***IMAGE NOT TO SCALE!***

**BOTTOM OF CROSSBOW**

## TABLE 1

| TOP OF CROSSBOW | | |
|---|---|---|
| | COMPONENTS TO INSTALL | |
| A.1 | HD UTILITY | - CONDUIT KIT OR BEACON |
| | Grip-Lock | - CONDUIT KIT OR BEACON |
| | ProLift | - CONDUIT KIT OR BEACON |
| **BOTTOM OF CROSSBOW** | | |
| | COMPONENTS TO INSTALL | |
| A.2 | HD UTILITY | - LADDER STOP, STROBE BRACKET, AND/OR REAR ROLLER |
| | Grip-Lock | - Grip-Lock SUB-ASSEMBLY |
| | ProLift | - DAMPER BRACKET |

***STEP 1B. SUB-ASSEMBLE EACH CROSSBOW WITH DESIRED ACCESSORIES FOR SECTIONS B.1 & B.2.***

***INSTRUCTIONS FOR EACH KIT CAN BE FOUND IN THEIR RESPECTIVE CARTON!***

**TOP OF CROSSBOW**

***IMAGE NOT TO SCALE!***

**BOTTOM OF CROSSBOW**

## TABLE 2

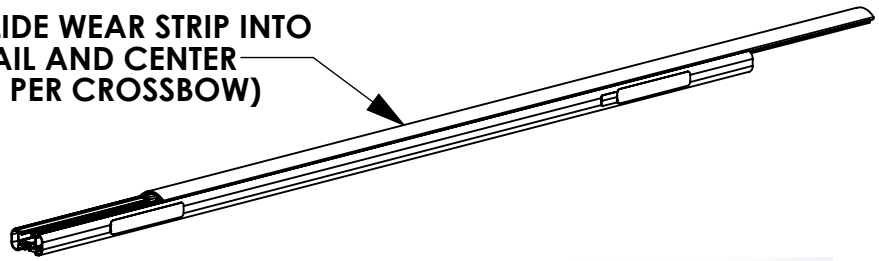
| | TOP OF CROSSBOW | |
|---|---|---|
| | COMPONENTS TO INSTALL | |
| B.1 | HD UTILITY | - WEAR STRIP (MODIFY IF NECESSARY, TABLE 3) |
| | Grip-Lock | - WEAR STRIP (MODIFY IF NECESSARY, TABLE 3) |
| | ProLift | - INNER STOP POST |
| | **BOTTOM OF CROSSBOW** | |
| | COMPONENTS TO INSTALL | |
| B.2 | HD UTILITY | - MOUNTING BRACKETS |
| | Grip-Lock | - MOUNTING BRACKETS |
| | ProLift | - MOUNTING BRACKETS |

***ALTER WEAR STRIP AND INSTALL ON CROSSBOW (IF APPLICABLE)! REFERENCE TABLE 3 BELOW FOR WEAR STRIP ALTERATION INSTRUCTIONS!***

## TABLE 3

| ADDED ACCESSORIES | ALTERATION FOR WEAR STRIP |
|---|---|
| 4" UPRIGHT*** | REMOVE 2" FROM END OF WEAR STRIP |
| 4" PVC CONDUIT KIT | REMOVE 7.25" FROM CENTER OF WEAR STRIP |
| 6" PVC CONDUIT KIT | REMOVE 9.50" FROM CENTER OF WEAR STRIP |
| ALUMINUM BOX CONDUIT KIT | REMOVE 13.25" FROM CENTER OF WEAR STRIP |
| BEACON | REMOVE 4" FROM CENTER OF WEAR STRIP |
| ProLift (SINGLE SIDE) | CUT WEAR STRIP IN HALF, DO NOT INSTALL ON ProLift SIDE |
| ProLift (DUAL SIDE) | DO NOT INSTALL WEAR STRIP |

**SLIDE WEAR STRIP INTO RAIL AND CENTER (1 PER CROSSBOW)**



**SLIDE ONE SIDE OF WEAR STRIP INTO CROSSBOW, THEN ROLL OTHER SIDE TO SNAP STRIP INTO PLACE**

***STEP 1C SUB-ASSEMBLE EACH CROSSBOW WITH DESIRED ACCESSORIES FOR SECTIONS C.1 & C.2***

**TOP OF CROSSBOW**

***IMAGE NOT TO SCALE!***

**BOTTOM OF CROSSBOW**

## TABLE 4

| | | |
|---|---|---|
| **TOP OF CROSSBOW** | | |
| | COMPONENTS TO INSTALL | |
| C.1 | HD UTILITY | - 4" UPRIGHT |
| | Grip-Lock | - N/A |
| | ProLift | - SLIDES FOR BASE EXTRUSION |
| **BOTTOM OF CROSSBOW** | | |
| | COMPONENTS TO INSTALL | |
| C.2 | HD UTILITY | - UPRIGHTS (6", 9", RATCHET) |
| | Grip-Lock | - STROBES |
| | ProLift | - STROBES |

## ASSEMBLY STEPS (FULL BENCH ASSEMBLY):

**2T. ADD DRIVELINES (IF INSTALLING ProLift)**

**3T. ADD HANDLES (IF INSTALLING Grip-Lock OR ProLift) AND DAMPERS (IF INSTALLING ProLift)**

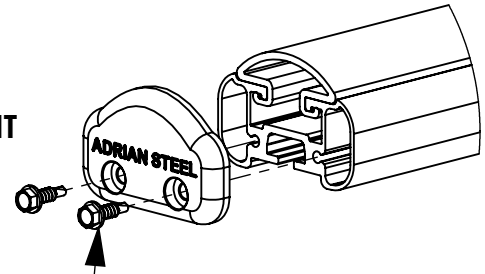
**4T. ADD OUTER SUPPORT BARS (IF INSTALLING Grip-Lock OR ProLift)**

**5T. ADD STEP LADDER KIT (Grip-Lock OR ProLift ONLY!)**

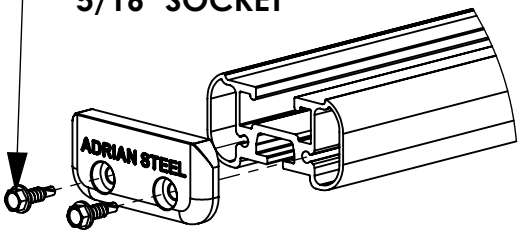
**6T. ASSEMBLE ENDS CAPS TO CROSSBOW**

**USED FOR HD UTILITY & Grip-Lock RACKS**

**LOCATED IN CROSSBOW KIT**




**FULLY TIGHTEN**
**(2) FAS0473, 63851**
**(2 PLACES PER END CAP)**
**5/16" SOCKET**




**USED FOR ProLift RACKS**

**LOCATED IN ProLift Kit**

**7T. INSTALL ROOF RAIL KIT ON VEHICLE ROOF OR BOTTOM MOUNTING BRACKETS**

**(ROOF RAIL KIT REQUIRED FOR Grip-Lock & ProLift OPTIONAL FOR HD UTILITY, NOT NEEDED FOR GM LADDER RACKS)**

**8T. MOUNT CROSSBOW SUB-ASSEMBLIES FROM STEP 1 TO VEHICLE/MOUNTING BRACKET, OR ROOF RAIL (LOOSE INSTALL)**

## ALTERNATE ASSEMBLY METHOD! (ASSEMBLE ON VEHICLE ROOF):

**2R. INSTALL ROOF RAIL KIT ON VEHICLE ROOF OR BOTTOM MOUNTING BRACKETS**

**(ROOF RAIL KIT REQUIRED FOR Grip-Lock & ProLift, OPTIONAL FOR HD UTILITY, NOT NEEDED FOR GM LADDER RACKS)**

**3R. MOUNT CROSSBOW SUB-ASSEMBLIES FROM STEP 1 TO VEHICLE/MOUNTING BRACKET, OR ROOF RAIL (LOOSE INSTALL)**

**4R. ADD DRIVELINES (IF INSTALLING ProLift)**

**5R. ADD HANDLES (IF INSTALLING Grip-Lock OR ProLift) AND DAMPERS (IF INSTALLING ProLift)**

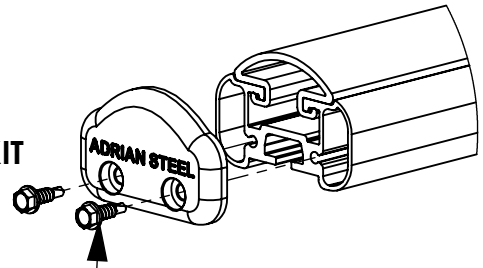
**6R. ADD OUTER SUPPORT BARS (IF INSTALLING Grip-Lock OR ProLift)**

**7R. ADD STEP LADDER KIT (Grip-Lock OR ProLift ONLY!)**

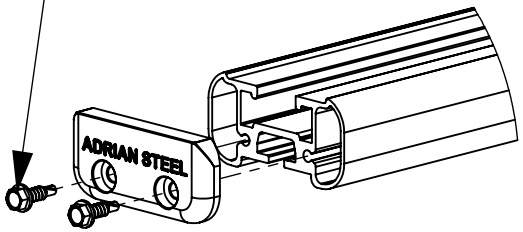
**8R. ASSEMBLE END CAPS TO CROSSBOW**

**USED FOR HD UTILITY & Grip-Lock RACKS**

**LOCATED IN CROSSBOW KIT**




**FULLY TIGHTEN**
**(2) FAS0473, 63851**
**(2 PLACES PER END CAP)**
**5/16" SOCKET**




**USED FOR ProLift RACKS**

**LOCATED IN ProLift Kit**

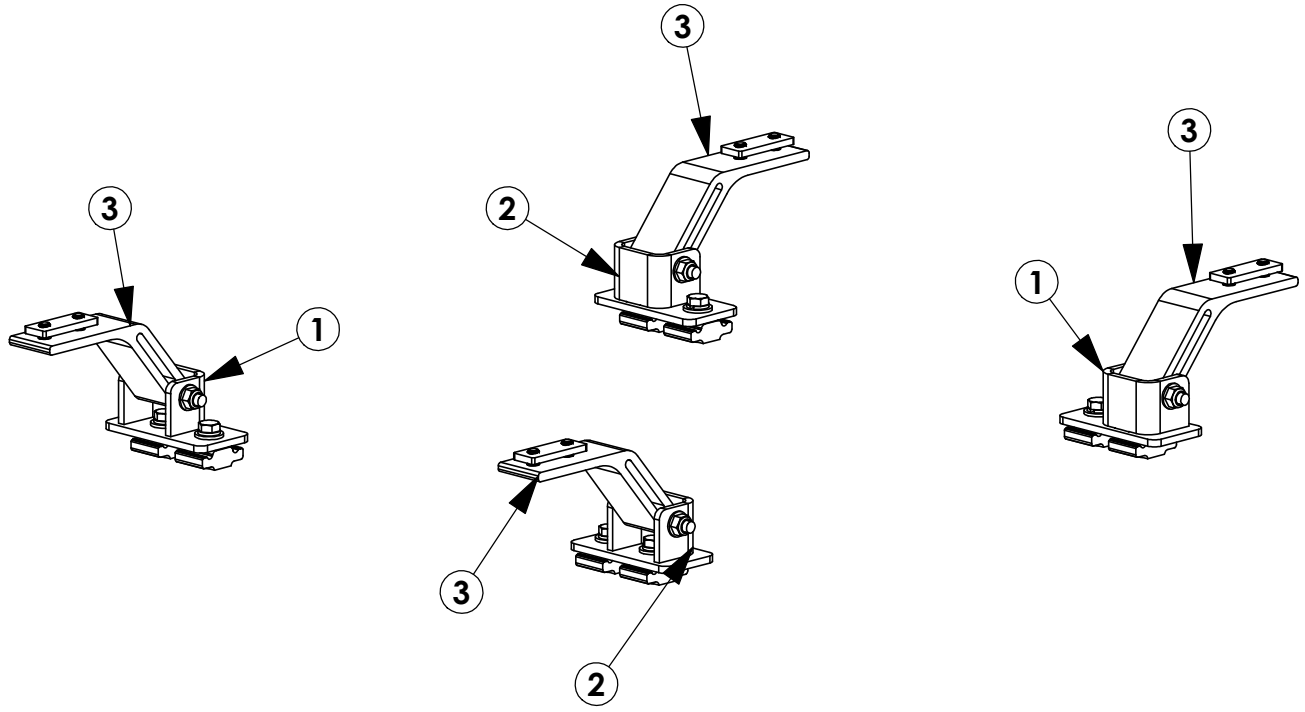
| INSTR. NUMBER : 69907 | PG: 1 | REV: B |
|---|---|---|
| PART NUMBER : MAVRMBK4 | | |
| PART DESC. : MAV RAIL MNT BKT KT,4 | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 69903-W | MAV RAIL BRKT FDS/RPS,W | 2 |
| 2 | 69904-W | MAV RAIL BRKT FPS/RDS,W | 2 |
| 3 | 68040-W | PROFILE, MOUNTING ARM, SHORT,W | 4 |

**- PART NUMBERS WITH "-W" SUFFIX ARE PAINTED WHITE**
**- FOR BLACK MOUNTING KITS, REPLACE "-W" PARTS WITH "-B" PARTS**

**NOTE: THIS INSTRUCTION IS VALID FOR THE FOLLOWING KITS:**

**- MAVRMBK4W**
**- MAVRMBK4B**




**TOOLS NEEDED:**

**- DRIVE RATCHET**
**- IMPACT DRIVER**
**- 3/16" SOCKET**
**- 1/2" SOCKET**
**- 1/2" WRENCH**
**- TAPE MEASURE**

## *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.

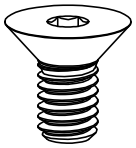
**PROVIDE CLEARANCE FOR SPACERS** - IF THE INSTALLATION VEHICLE CONTAINS A CARPET OR SUBFLOOR, USE A 1-3/16" DIAMETER CARPET CUTTER (P/N: 31183-0) AT ALL MOUNTING LOCATIONS TO OPEN UP ROOM FOR SPACERS.

**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.

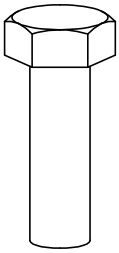
**PLUSNUT INSTALLATION** - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

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

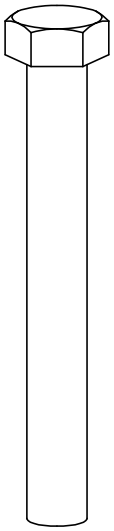
## *FASTENERS AND HARDWARE USED*
## BAG REFERENCE: BAG 66848



**FAS0858**
**5/16-18X.63 SS**
**FHH SCREW**
**QTY: 8**



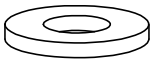
**FAS0597**
**5/16-18X1.0 SS**
**HH SCREW**
**QTY: 8**



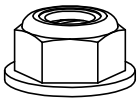
**FAS0243**
**5/16-18X2.5 SS**
**HH SCREW**
**QTY: 4**

**FAS0857**
**5/16 SS**
**WASHER,LCK EXT CS**
**QTY: 8**

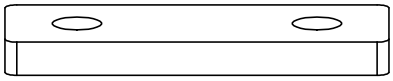
**FAS0588**
**5/16 SS**
**SPLIT WASHER**
**QTY: 8**



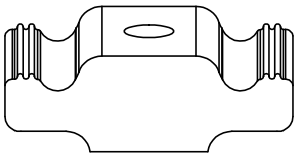
**FAS0552**
**5/16 SS**
**FLAT WASHER**
**QTY: 12**



**FAS0861**
**5/16-18 SS**
**HH FLG NUT**
**QTY: 4**



**68042**
**PROFILE FOOT**
**MOUNTING PLATE**
**QTY: 4**



**63490**
**RAIL SLIDE,**
**1"**
**QTY: 8**

**PAGE INTENTIONALLY LEFT BLANK**

# STEP 1 - ASSEMBLE MOUNTING ARMS TO CROSSBOW

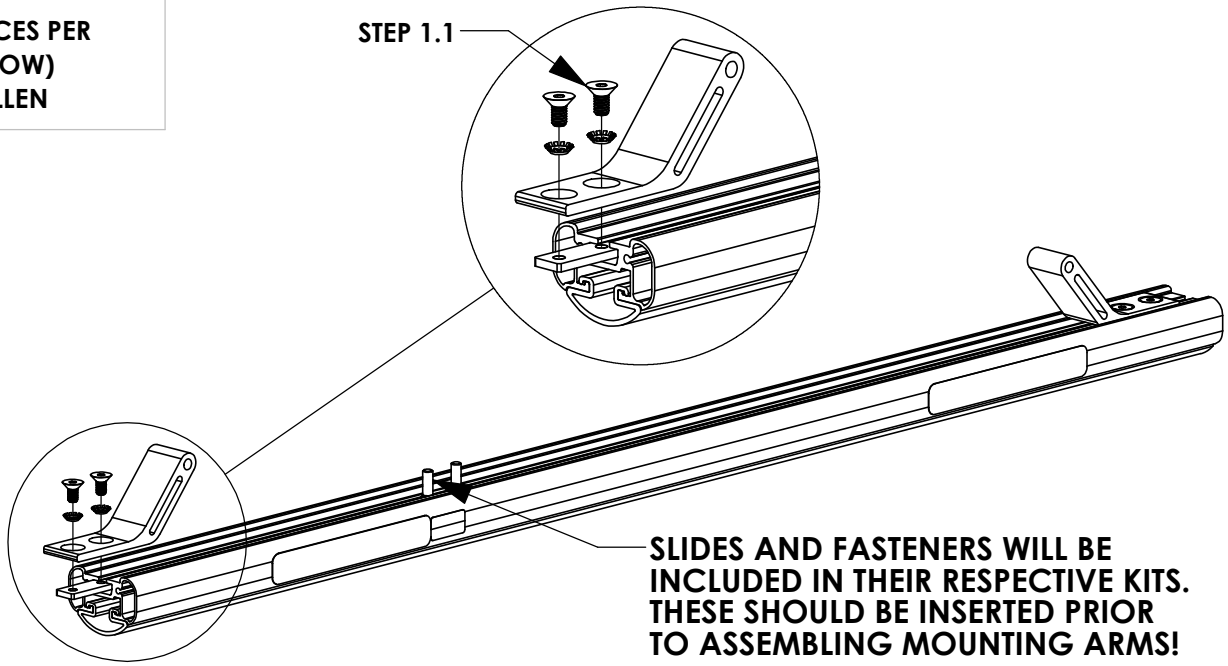
**CHECK TABLE 1-3 IN INSTRUCTION 68895 FOR ADDITIONAL ACCESSORY SLIDE INSTALLATION BEFORE INSTALLING MOUNTING BRACKETS (ALL A.2 ITEMS SHOULD BE COMPLETELY ASSEMBLED FIRST!)**

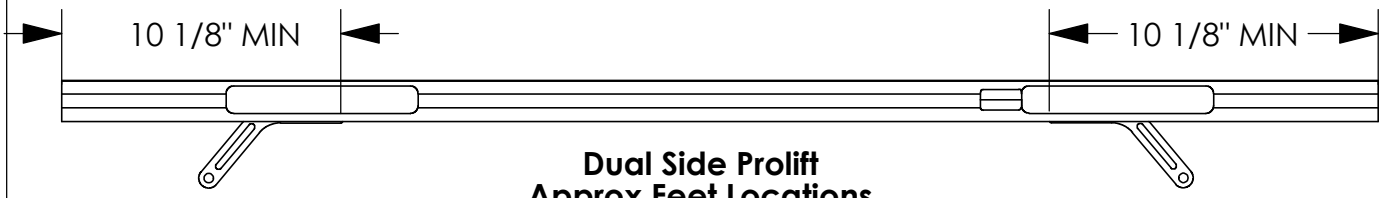
**STEP 1.1**
**LOOSELY ASSEMBLE UNTIL AFTER STEP 3**
**(2) FAS0857, (2) FAS0858, 68042**

**(02 PLACES PER CROSSBOW)**
**3/16" ALLEN**

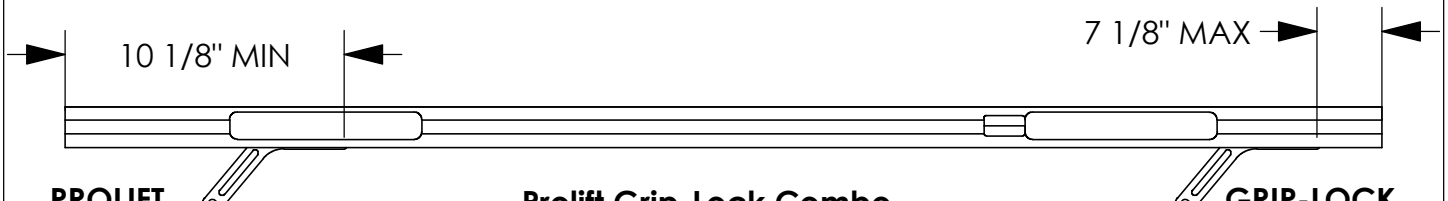
## ATTENTION!

**IF INSTALLING A GRIP-LOCK ON A PICKUP TRUCK TOPPER, ASSEMBLE MOUNTING ARMS FACING OUTWARD FOR THAT SIDE OF THE RACK**




**Dual Side Prolift**
**Approx Feet Locations**




**PROLIFT SIDE**

**Prolift Grip-Lock Combo**
**Approx Feet Locations**

**GRIP-LOCK SIDE**

**Dual Grip-Lock**
**Approx Feet Locations**

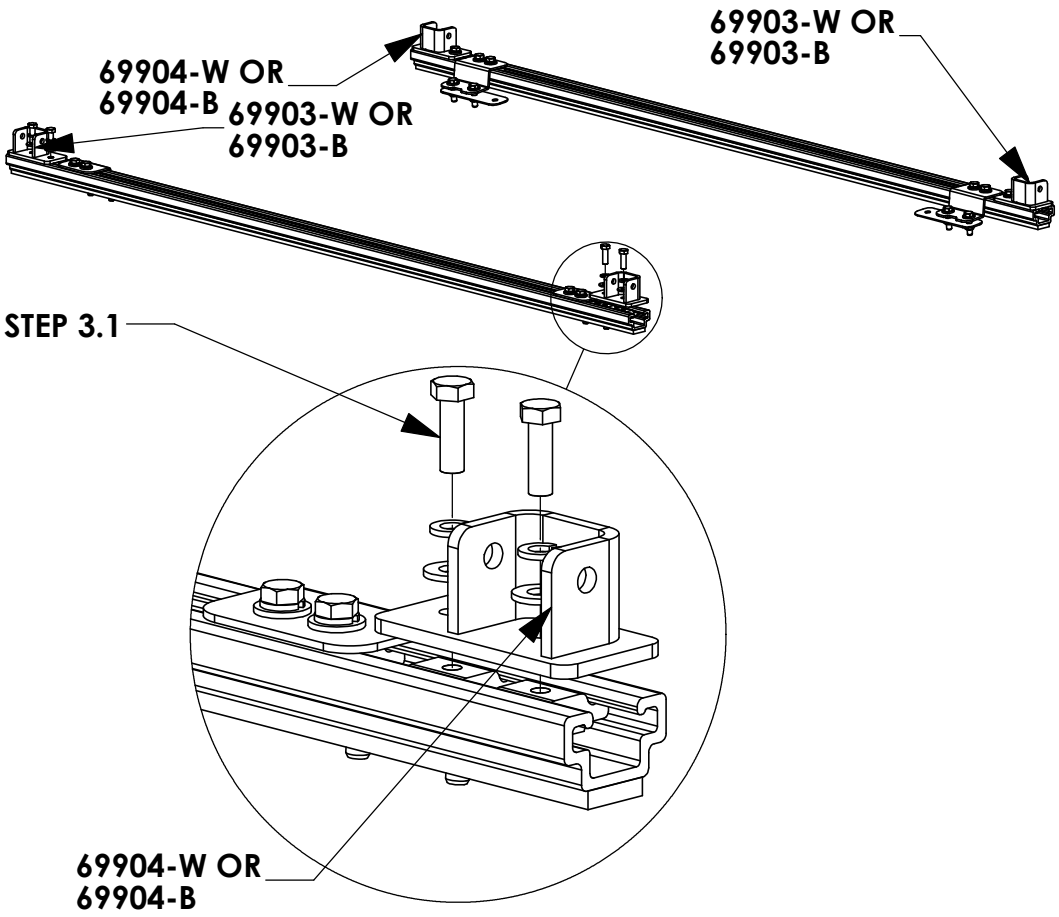
# *STEP 2 - ASSEMBLE MOUNTING BRACKETS TO ROOF RAILS*

**STEP 3.1**
**FULLY TIGHTEN**
**FAS0597, FAS0552, FAS0588, 63490 ON REAR MOUNTING FEET**

**(02 PLACES PER MOUNTING FOOT)**
**1/2" SOCKET**

**STEP 3.2**
**LEAVE LOOSE UNTIL AFTER STEP 4**
**FAS0597, FAS0552, FAS0588, 63490 ON FRONT MOUNTING FEET**

**(02 PLACES PER MOUNTING FOOT)**
**1/2" SOCKET**



**DO NOT FULLY TIGHTEN! YOU MAY NEED TO MOVE BRACKETS SLIGHTLY!**

## CROSSBOW POSITIONING NOTES:

### HD UTILITY RACK -

**REAR CROSSBOW - REARWARD AS POSSIBLE**
**FRONT CROSSBOW - POSITION TO BEST FIT END USER'S PRODUCT**

### GRIP-LOCK / PROLIFT LADDER RACKS -

**REFER TO RESPECTIVE INSTRUCTION FOR CROSSBOW PLACEMENT**

# STEP 3 - ASSEMBLE MOUNTING BRACKETS TO MOUNTING ARMS

STOP

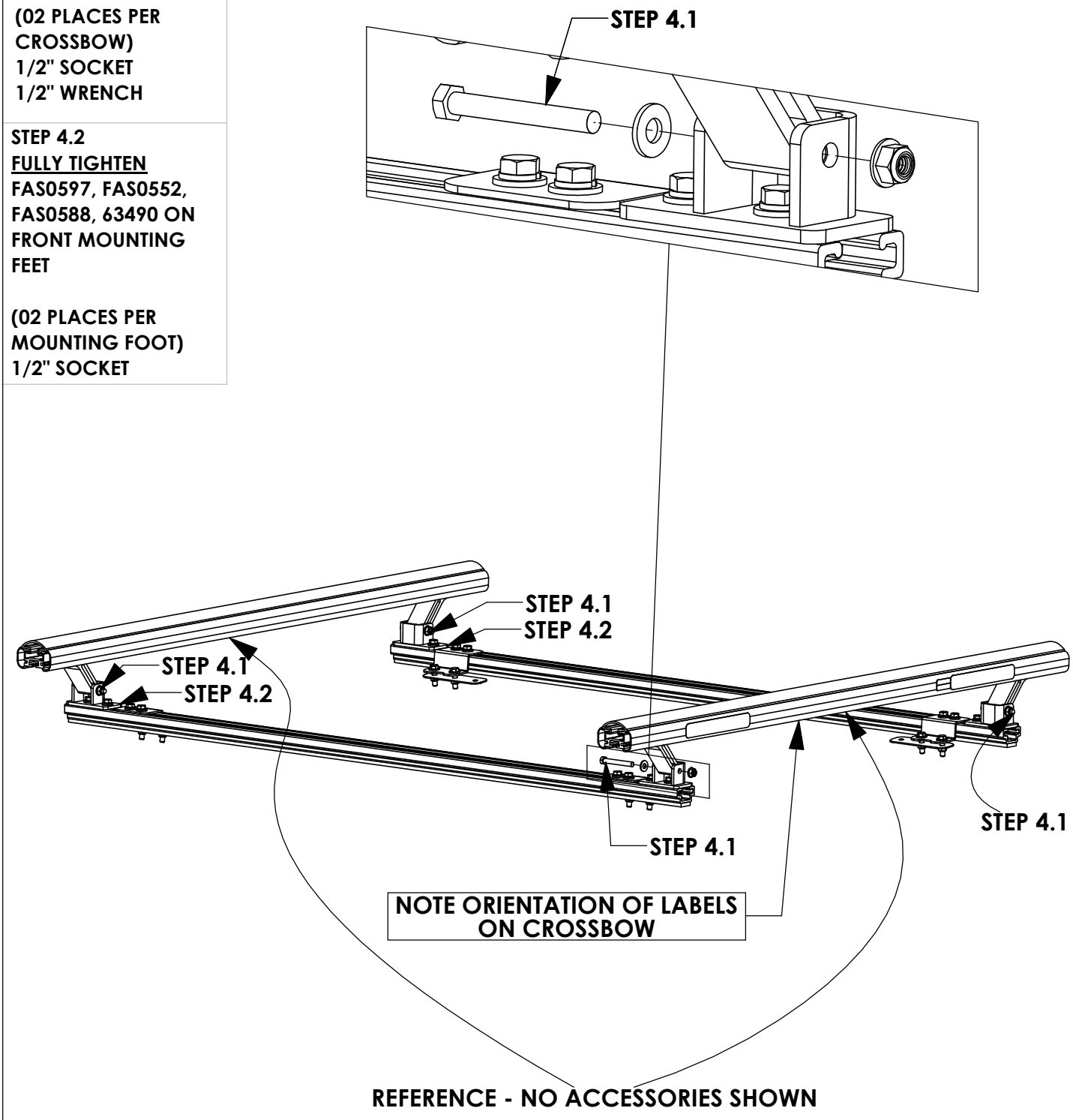
**BEFORE PROCEEDING WITH THIS STEP FINISH ASSEMBLING ACCESSORIES ONTO RACK. (IE GRIP LOCK, PROLIFT, ETC)**

**STEP 4.1**
**FULLY TIGHTEN**
**FAS0243, FAS0552, FAS0861**

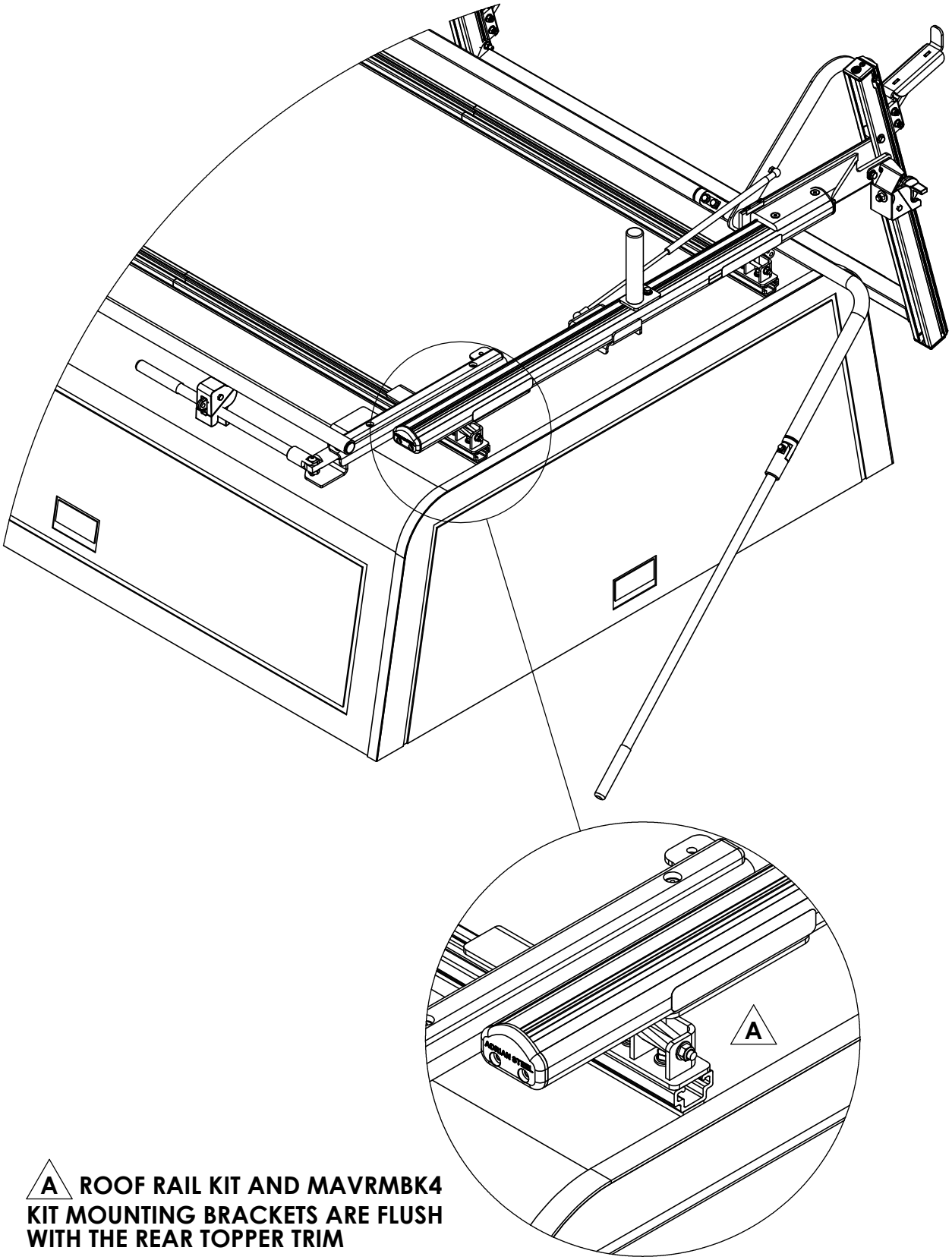
**(02 PLACES PER CROSSBOW)**
**1/2" SOCKET**
**1/2" WRENCH**

**STEP 4.2**
**FULLY TIGHTEN**
**FAS0597, FAS0552, FAS0588, 63490 ON FRONT MOUNTING FEET**

**(02 PLACES PER MOUNTING FOOT)**
**1/2" SOCKET**



## *STEP 4 - ADJUST MOUNTING BRACKET LOCATION IF NECESSARY*




**A ROOF RAIL KIT AND MAVRMBK4 KIT MOUNTING BRACKETS ARE FLUSH WITH THE REAR TOPPER TRIM**

**INSTALLATION IS COMPLETE!! MAKE SURE ALL FASTENERS ARE TIGHTENED**

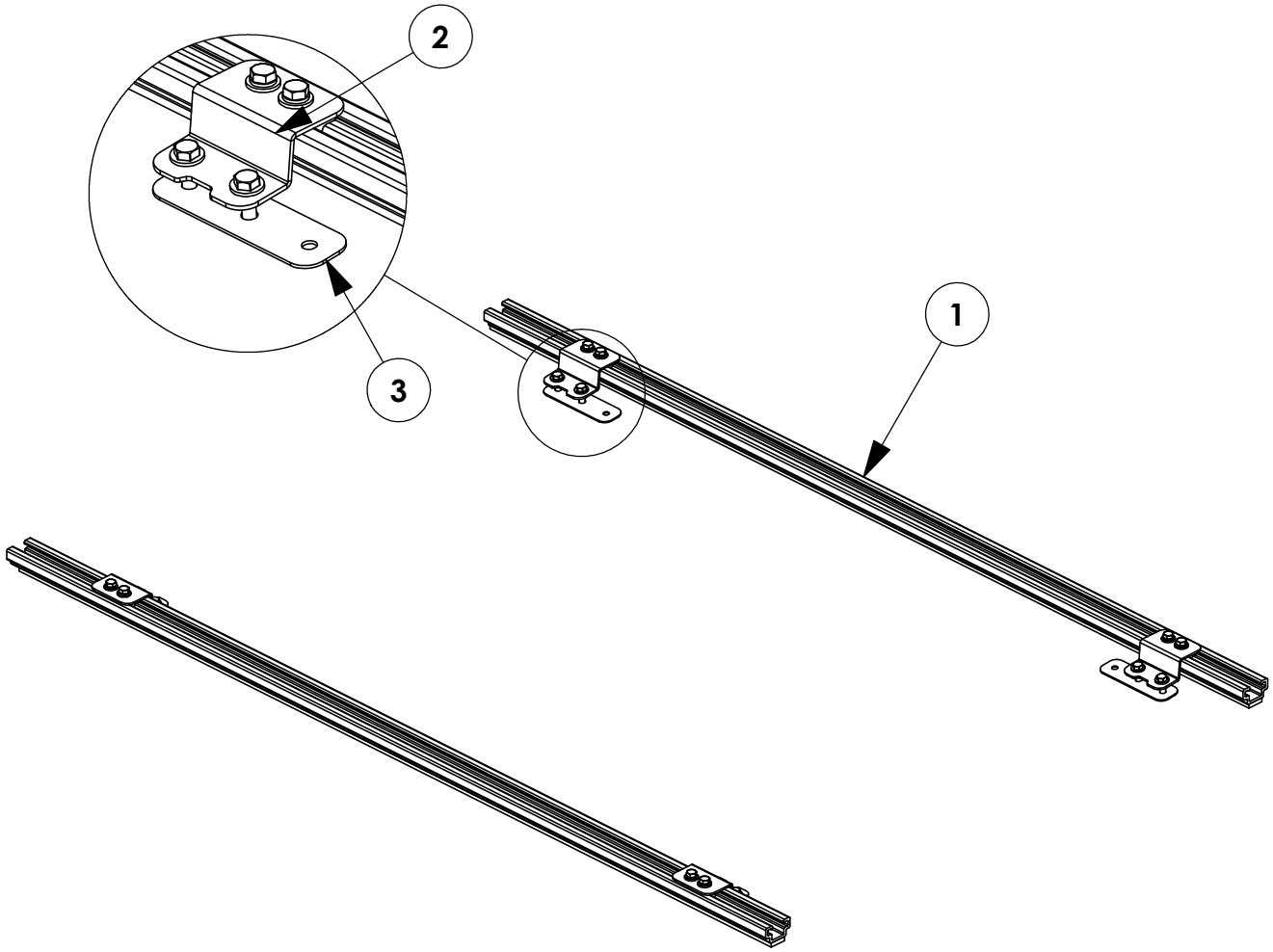
| INSTR. NUMBER : 69251 | PG: 1 | REV: D |
|---|---|---|
| PART NUMBER • RRKTOP58<br>• RRKTOP55<br>• 77119 | | |
| PART DESC. • ROOF RAIL KIT,TOPPER,58"<br>• ROOF RAIL KIT,TOPPER,55" | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | RRKTOP58 | RRKTOP55 |
|---|---|---|---|---|
| 1 | BLK63348 | RAIL, 58.00 | 2 | - |
| 2 | 69241 | TOPPER RAIL BRACKET | 4 | 4 |
| 3 | 66056 | UTILITY,TOP SUPPORT PLATE | 4 | 4 |
| 4 | 69902 | ROOF RAIL SPRINTER FSV | - | 2 |
| 5 | 63390 | FOAM TAPE 1/4X2X120'TB | - | 2 |

**NOTE: THIS INSTRUCTION IS VALID FOR THE FOLLOWING KITS:**

- **RRKTOP58 (SHOWN)**
- **RRKTOP55 / 66982**
- **77119 (PAGE 7)**

**FOR INSTALLATION OF 77119 TO FIBERGLASS TOPPER, FOLLOW STEPS ON PAGE 7.**



## *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.

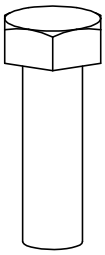
**PROVIDE CLEARANCE FOR SPACERS** - IF THE INSTALLATION VEHICLE CONTAINS A CARPET OR SUBFLOOR, USE A 1-3/16" DIAMETER CARPET CUTTER (P/N: 31183-0) AT ALL MOUNTING LOCATIONS TO OPEN UP ROOM FOR SPACERS.

**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.

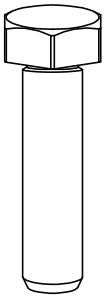
**PLUSNUT INSTALLATION** - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

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

## *FASTENERS USED*

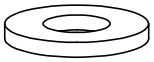


**FAS0597**
**5/16-18X1.0 SS**
**HH SCREW**
**QTY: 8**

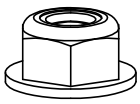


**FAS0830**
**5/16-18X1.25 SS**
**SCREW, HH**
**QTY: 8**

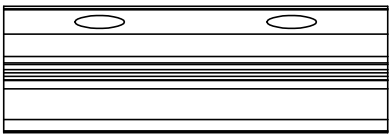
**FAS0588**
**5/16 SS**
**SPLIT WASHER**
**QTY: 8**



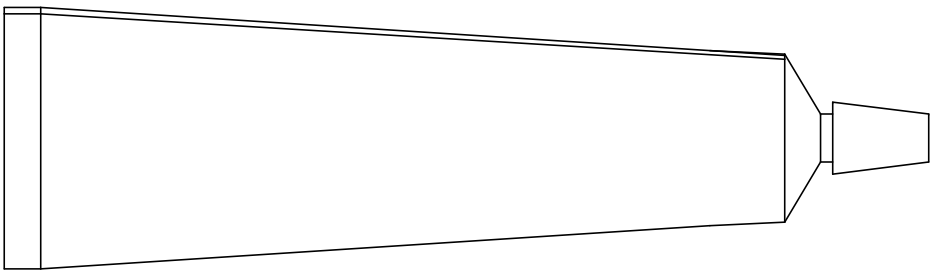
**FAS0552**
**5/16 SS**
**FLAT WASHER**
**QTY: 16**



**FAS0861**
**5/16-18 SS**
**HH FLG NUT**
**QTY: 8**



**63491**
**RAIL SLIDE**
**2"**
**QTY: 4**

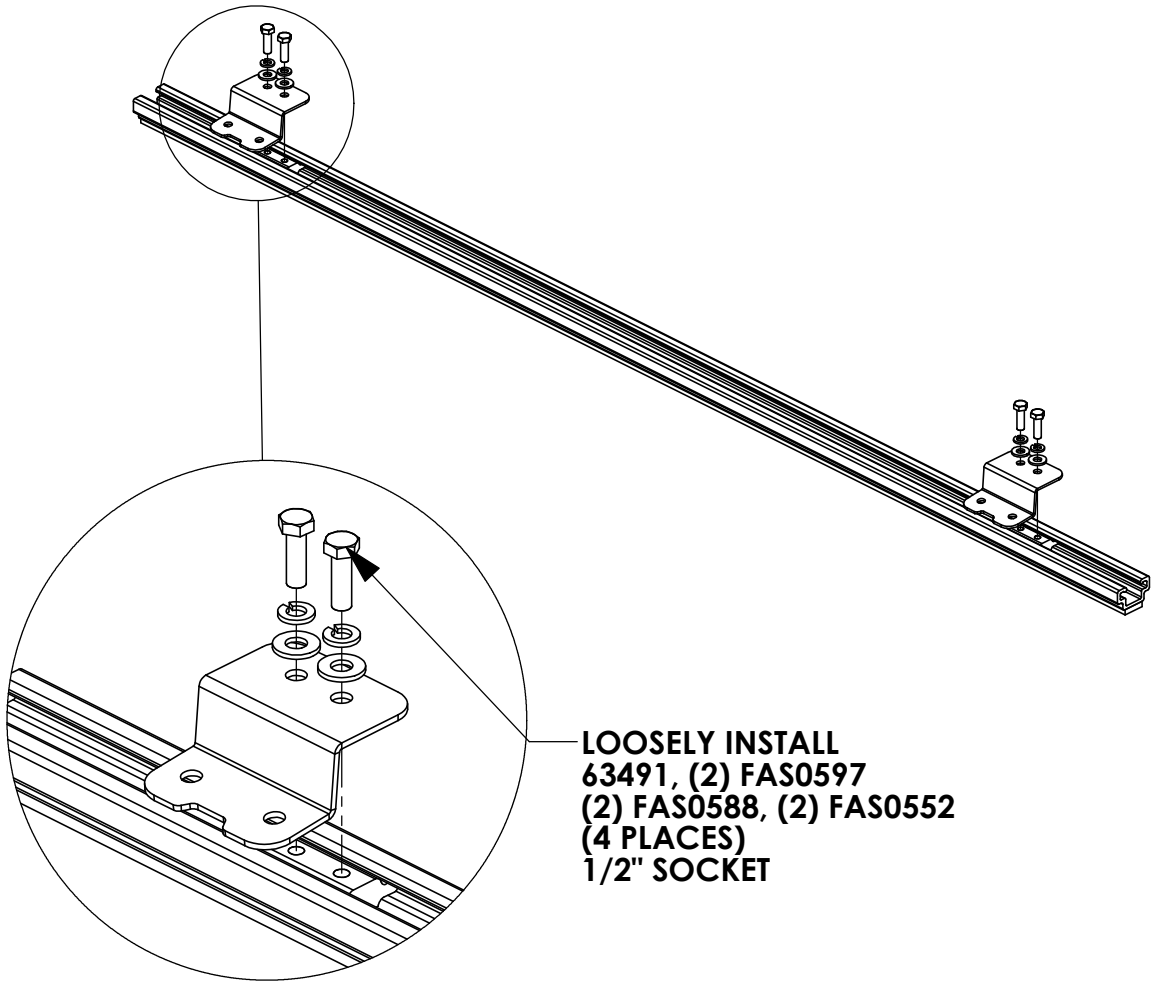


**26618-0**
**SILICONE**
**1 OZ TUBE**
**QTY: 1**

# *STEP 1 - ASSEMBLE BRACKETS TO ROOF RAILS*

**ADD SLIDES FOR MOUNTING BRACKETS BEFORE ADDING SLIDES FOR RAIL BRACKETS!!**

**BRACKET LOCATIONS WILL BE DETERMINED BY THE SIZE AND SPACING OF THE WELDED REINFORCEMENT PLATES PROVIDED WITH THE TOPPER.**

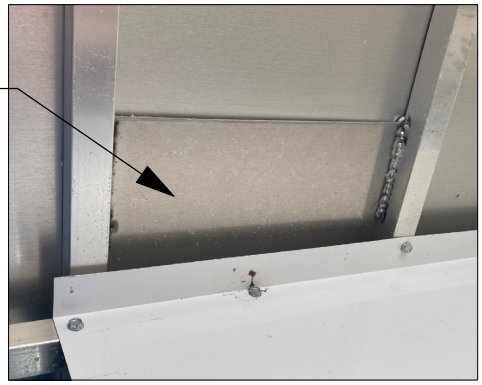


## *STEP 2 - MARK AND DRILL HOLES TO MOUNT RAILS*

**LOCATE THE REINFORCEMENT PLATES ON BOTH SIDES OF TOPPER (FRONT AND REAR).**

**MOUNTING HOLES IN RAIL BRACKETS NEED TO BE ABOVE THESE WHEN INSTALLED!!!**

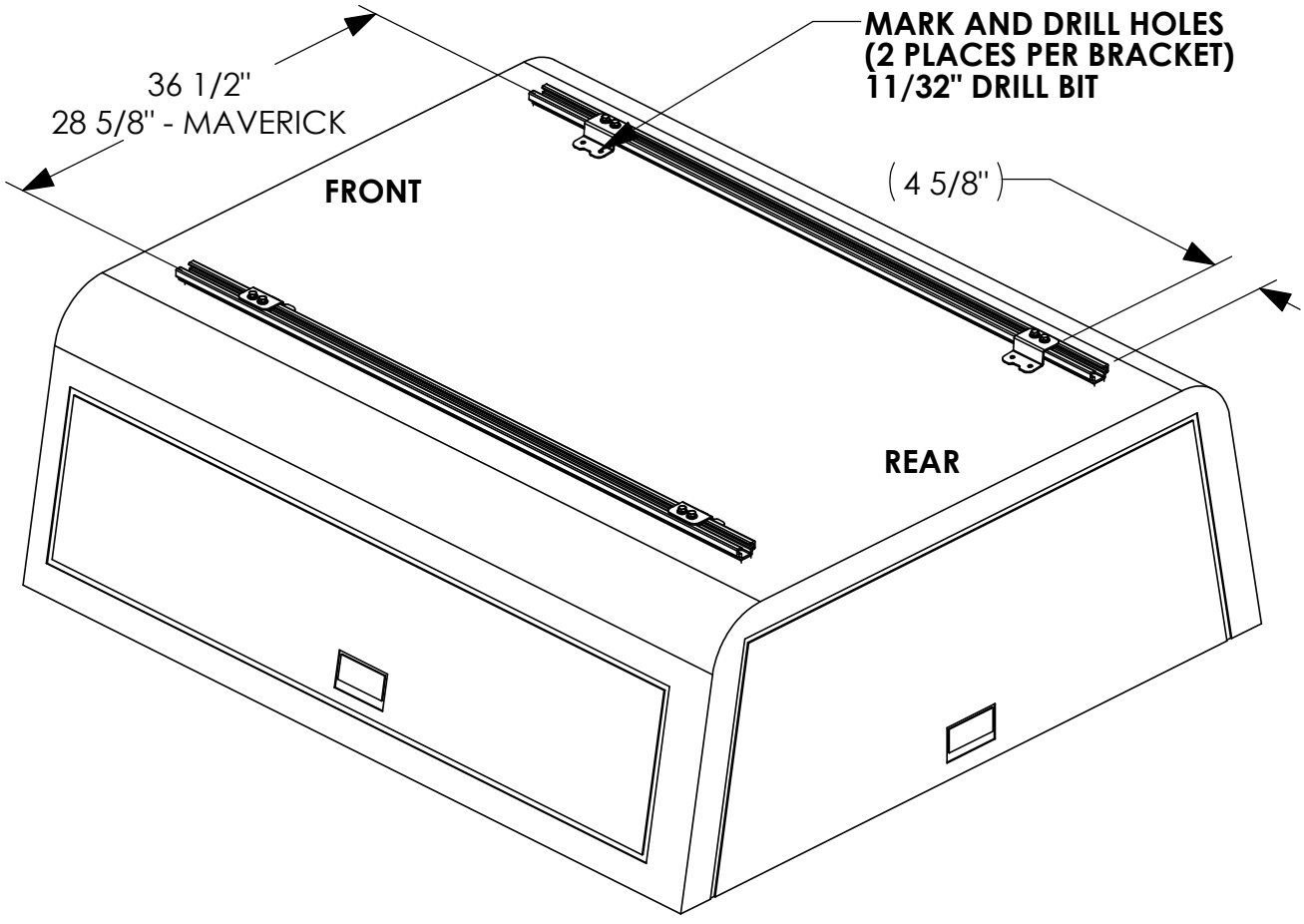
**NOTE: INSIDE OF TOPPER SHOWN HERE**



**SET RAILS WITH BRACKETS ON ROOF, CENTER-TO-CENTER DISTANCE OF RAILS MUST BE A MINIMUM OF 36 1/2", CENTERED ON THE TOPPER.**

**IF INSTALLING THE 55" ROOF RAIL KIT ON A FORD MAVERICK, THIS DIMENSION SHOULD BE APPROXIMATELY 28 5/8".**

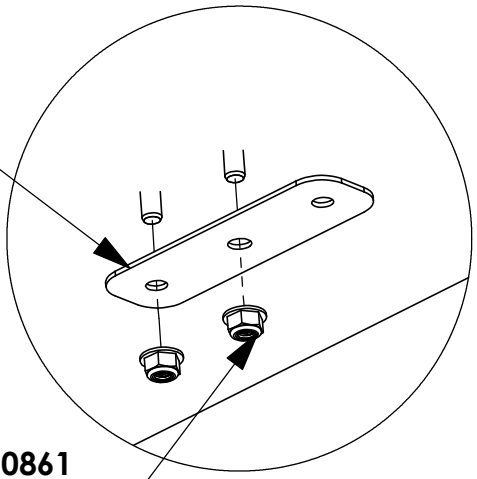
**PLEASE ENSURE THE SPACING OF THE RAIL BRACKETS PROVIDE ENOUGH CLEARANCE FOR THE MOUNTING BRACKETS OF THE RACK TO BE INSTALLED. RACK SHOULD BE INSTALLED AS FAR REARWARD AS POSSIBLE. THE 4 5/8" DIMENSION IS A MINIMUM MEASUREMENT, BUT CAN BE MOUNTED ANYWHERE ALONG THE RAIL TO UTILIZE THE REINFORCEMENT PLATES**



## *STEP 3 - MOUNT RAILS TO TOPPER*

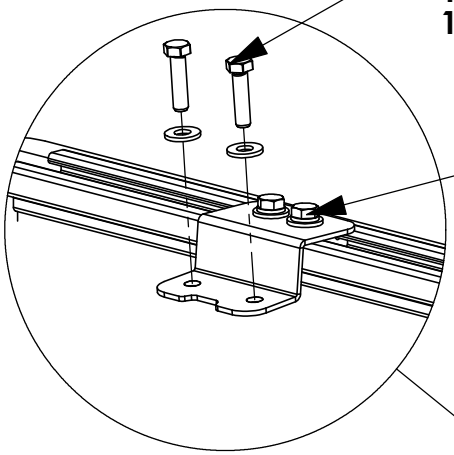
**NOTE: INSIDE OF TOPPER SHOWN HERE**

**POSITION PLATE TO ALLOW THE MOST SURFACE AREA OF THE PLATE TO CONTACT THE WELDED REINFORCEMENT PLATES.**



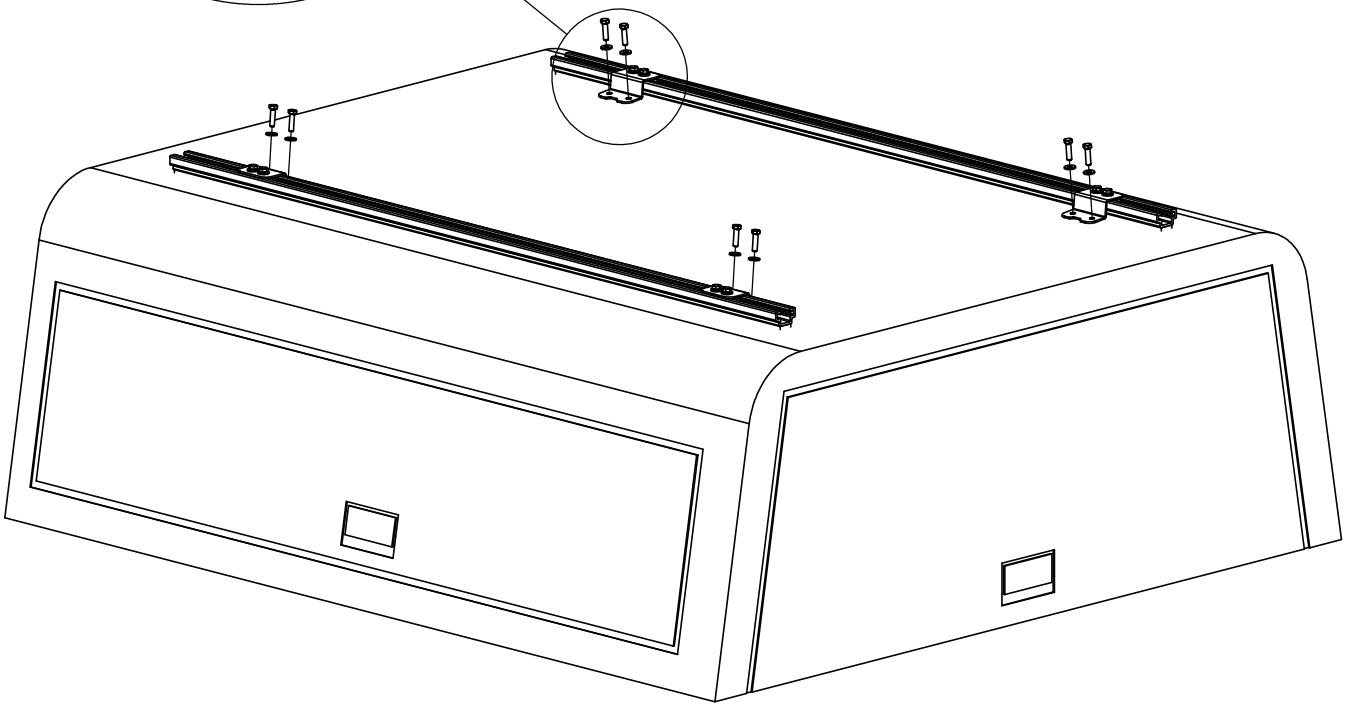
**FAS0830, FAS0552, FAS0861**
**(2 PLACES PER BRACKET)**
**1/2" SOCKET**
**1/2" WRENCH**

**FULLY TIGHTEN BOLTS**
**(2 PLACES PER BRACKET)**
**1/2" SOCKET**



**POKE FASTENERS THROUGH FOAM TAPE.**

**APPLY SILICONE AROUND DRILLED HOLES!**



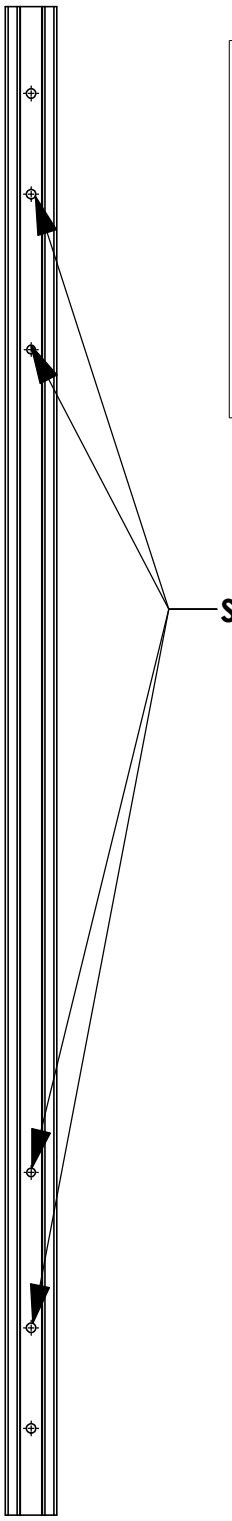
# 77119 INSTALLATION: ALL STEPS

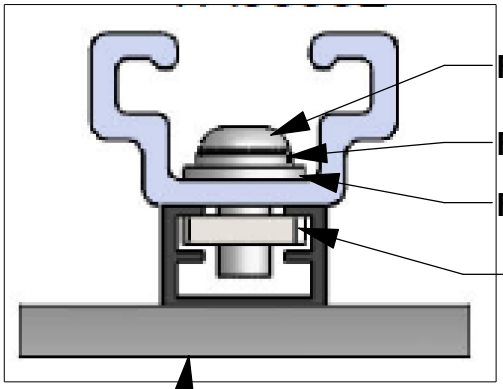
**Step 1: APPLY QTY: 2 OF 63390 TO QTY: 2 OF 72511 AND CUT OUT FOAM IN CORRESPONDING HOLES (CALLED OUT IN IMAGE ON RIGHT)**

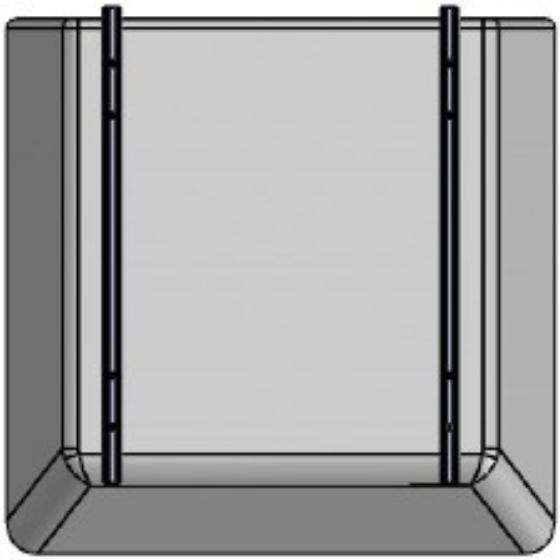
**Step 2:**
- **REMOVE ARE RAIL ENDCAP TOWARDS REAR DOOR WITH 3.5MM HEX KEY.**
- **INSERT (4) PN 62652 INTO TOP SLOT (CALLED OUT ON RIGHT)**
- **REINSTALL END CAP (MAY NEED TO HOLD NUT ON INSIDE OF TOPPER TO GET THREAD STARTED)**

**Step 3: MOUNT BOTH PREVIOUSLY DRILLED ROOF RAILS TO ARE INSTALLED ROOF RAILS WITH Qty: 4 OF EACH; 62652, FAS0668, FAS0588, FAS0552**

**Step 4: ENSURE RAILS ARE MOUNTED IN CORRECT POSITION USING THE MEASUREMENT IN THE IMAGE TO THE RIGHT, THEN FULLY TIGHTEN.**



**INSTALLATION IS COMPLETE!!**

| INSTR. NUMBER : 69372 | PG: 1 | REV: A |
|---|---|---|
| PART NUMBER : GL-TOPPS & GL-TOPDS | | |
| PART DESC. • GRIP-LOCK,TOPPER,PS<br>• GRIP-LOCK,TOPPER,DS | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | GL-TOPPS | GL-TOPDS |
|---|---|---|---|---|
| 1 | 66359 | GRIP LOCK FRONT BRACE ASSM CS | 1 | - |
| 2 | 66360 | GRIP LOCK REAR BRACE ASSM CS | 1 | - |
| 3 | 69244 | GRIP-LOCK,TOP OUT TUB,ASM | 1 | 1 |
| 4 | 25340-0 | HANDLE LATCH-STD | 1 | 1 |
| 5 | 66291-W | GRIP LOCK HANDLE, WHITE | 1 | 1 |
| 6 | 50981-B | FRONT STOP POST | 1 | 1 |
| 7 | 66289-W | GRIP LOCK HANDLE POST, WHITE | 1 | 1 |
| 8 | 66292-B | CLAMP PAD, BLACK | 2 | 2 |
| 9 | 27254-B | SLEEVE-HORN,L.R. BLACK | 1 | 1 |
| 10 | 66361 | GRIP LOCK FRONT BRACE SS ASSM | - | 1 |
| 11 | 66362 | GRIP LOCK REAR BRACE ASSM SS | - | 1 |

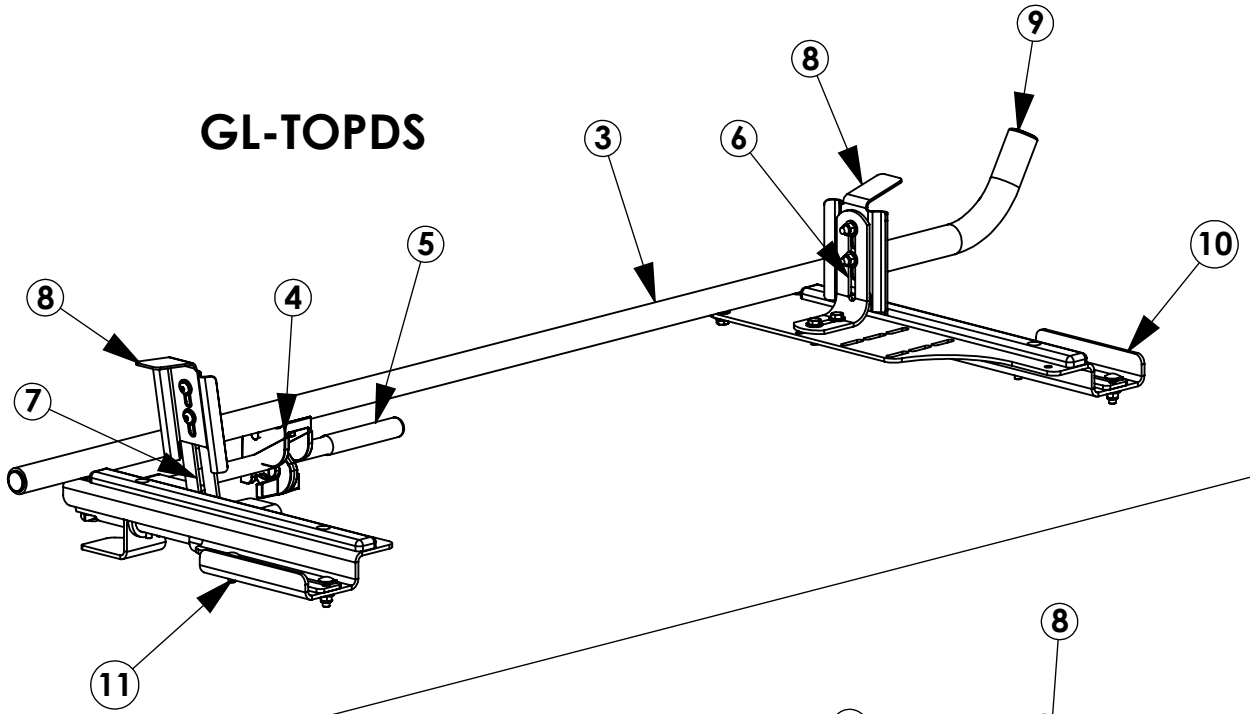
**NOTE: THIS INSTRUCTION IS VALID FOR THE FOLLOWING KITS:**

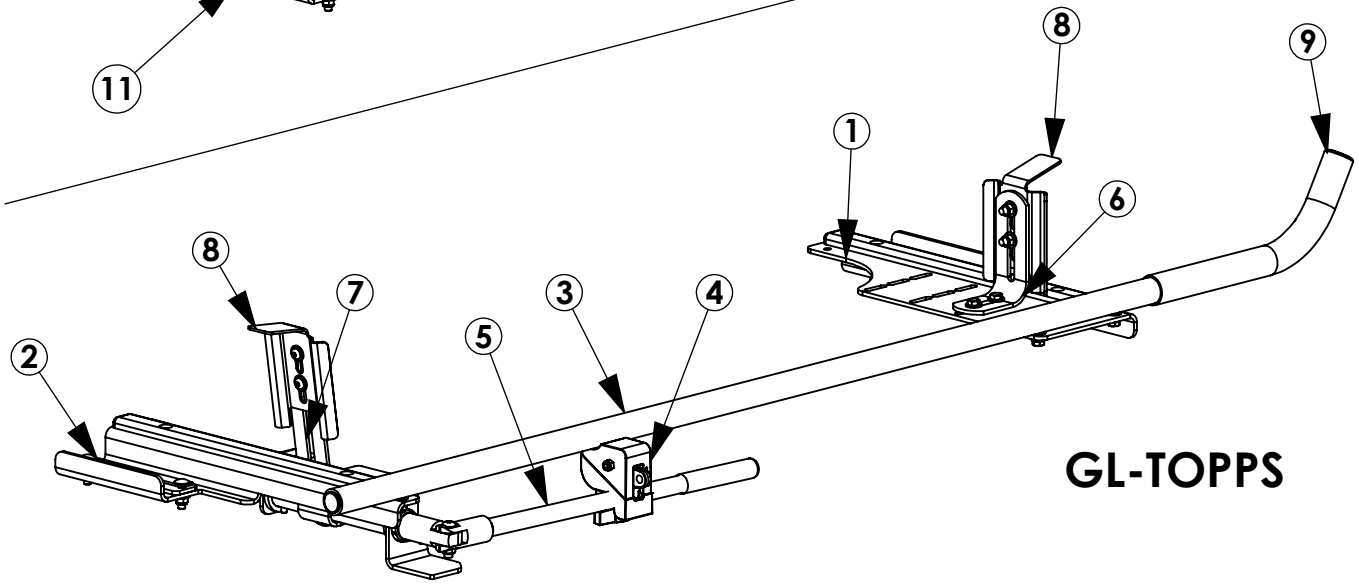
- **GL-TOPPS**
- **GL-TOPDS**
- **GL-TOPPSB**
- **GL-TOPDSB**

- **PART NUMBERS WITH "-W" SUFFIX ARE PAINTED WHITE**
- **FOR BLACK GRIP-LOCK™, REPLACE "-W" PARTS WITH "-B" PARTS**

- **INSTRUCTION SHOWS INSTALL FOR GL-TOPPS.**
  - **MIRROR STEPS FOR GL-TOPDS**

## GL-TOPDS




## GL-TOPPS

## *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.

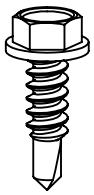
**PROVIDE CLEARANCE FOR SPACERS** - IF THE INSTALLATION VEHICLE CONTAINS A CARPET OR SUBFLOOR, USE A 1-3/16" DIAMETER CARPET CUTTER (P/N: 31183-0) AT ALL MOUNTING LOCATIONS TO OPEN UP ROOM FOR SPACERS.

**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.

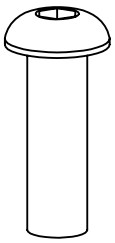
**PLUSNUT INSTALLATION** - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

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

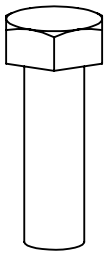
## *FASTENERS USED*
## *QUANTITIES PROVIDED ARE FOR A SINGLE SIDE INSTALL*



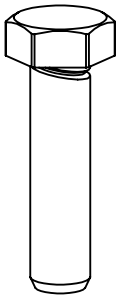
**FAS0473**
**#12x.75**
**HH TEK SCREW**
**QTY: 4**



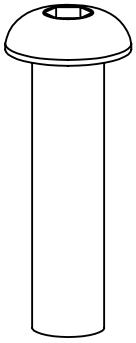
**FAS0813**
**5/16-18 X 1.0 SS**
**BHC SCREW**
**QTY: 4**



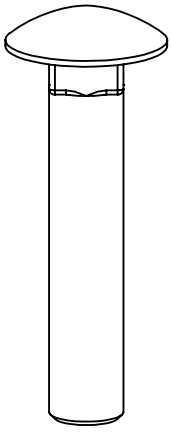
**FAS0597**
**5/16-18 X 1.0 SS**
**HH SCREW**
**QTY: 2**



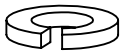
**FAS0830**
**5/16-18 X 1.25 SS**
**HH SCREW**
**QTY: 4**



**FAS0819**
**5/16-18 X 1.5 SS**
**BHC SCREW**
**QTY: 1**

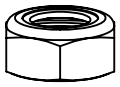


**FAS0721**
**3/8-16 X 2.0 SS**
**CRG BOLT**
**QTY: 1**



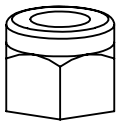
**FAS0588**
**5/16-18 SS**
**SPLIT WASHER**
**QTY: 4**

**FAS0552**
**5/16-18 SS**
**FLAT WASHER**
**QTY: 16**

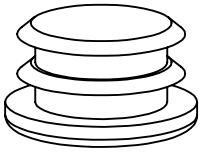


**FAS0399**
**3/8-16 SS**
**NYL NUT**
**QTY: 1**

**FAS0248**
**5/16-18 SS**
**NYL NUT**
**QTY: 6**

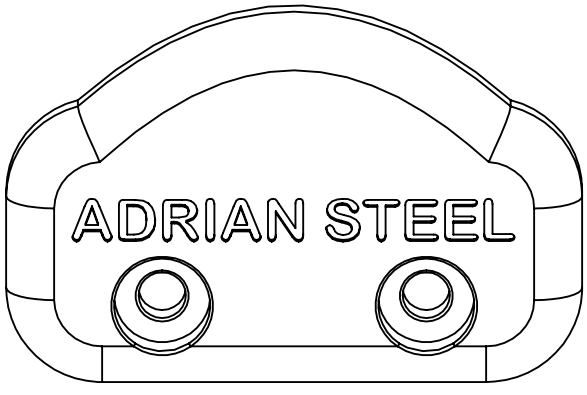


**FAS0110**
**3/8-16 SS**
**NYL NUT**
**QTY: 1**

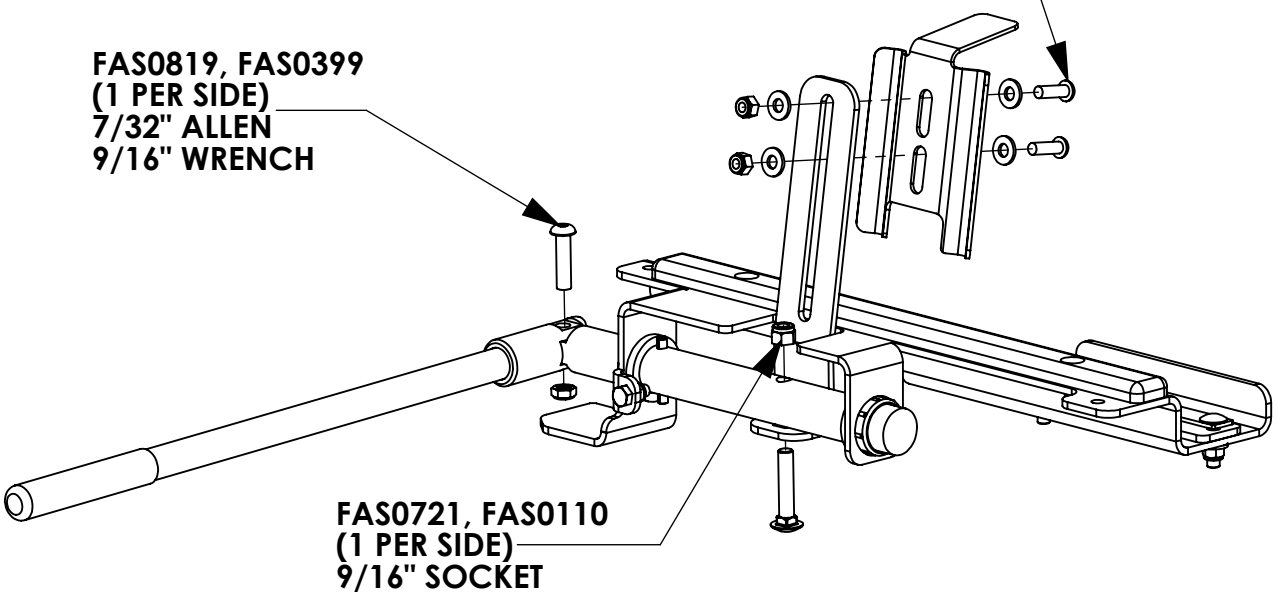


**51363**
**1" RND BLK**
**CAP PLUG**
**QTY: 1**

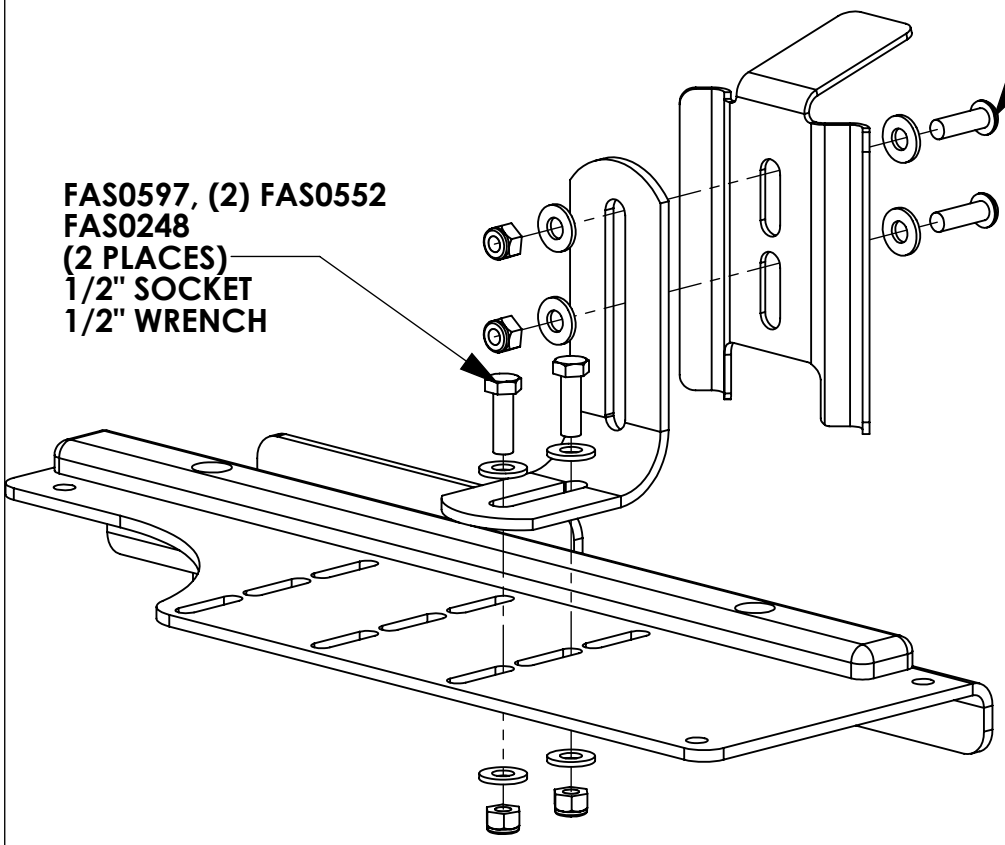
**63851**
**CROSSBOW**
**END CAP**
**QTY: 2**



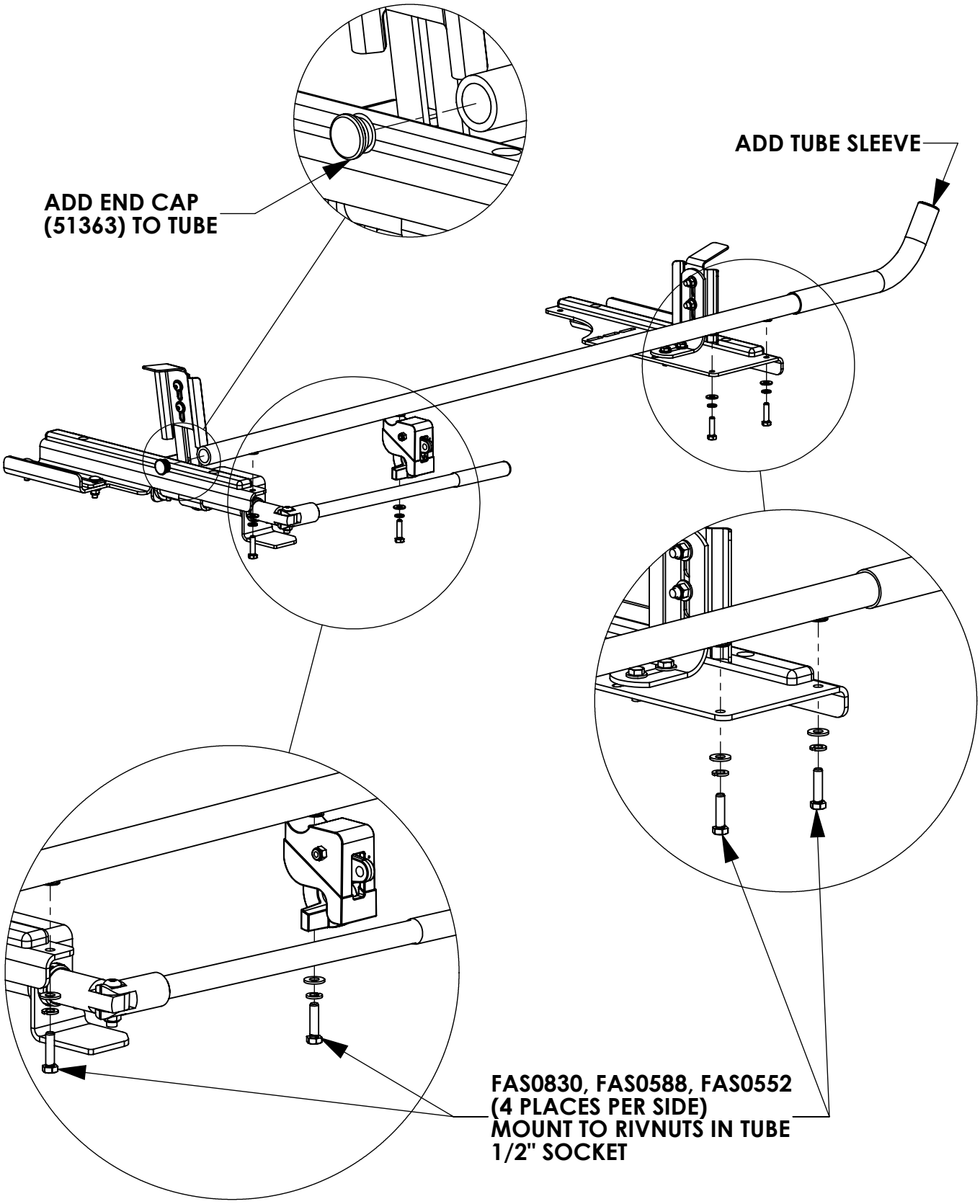
## *BEGIN ASSEMBLY*
## *STEP 1 - ASSEMBLE REAR CLAMP AND HANDLE*



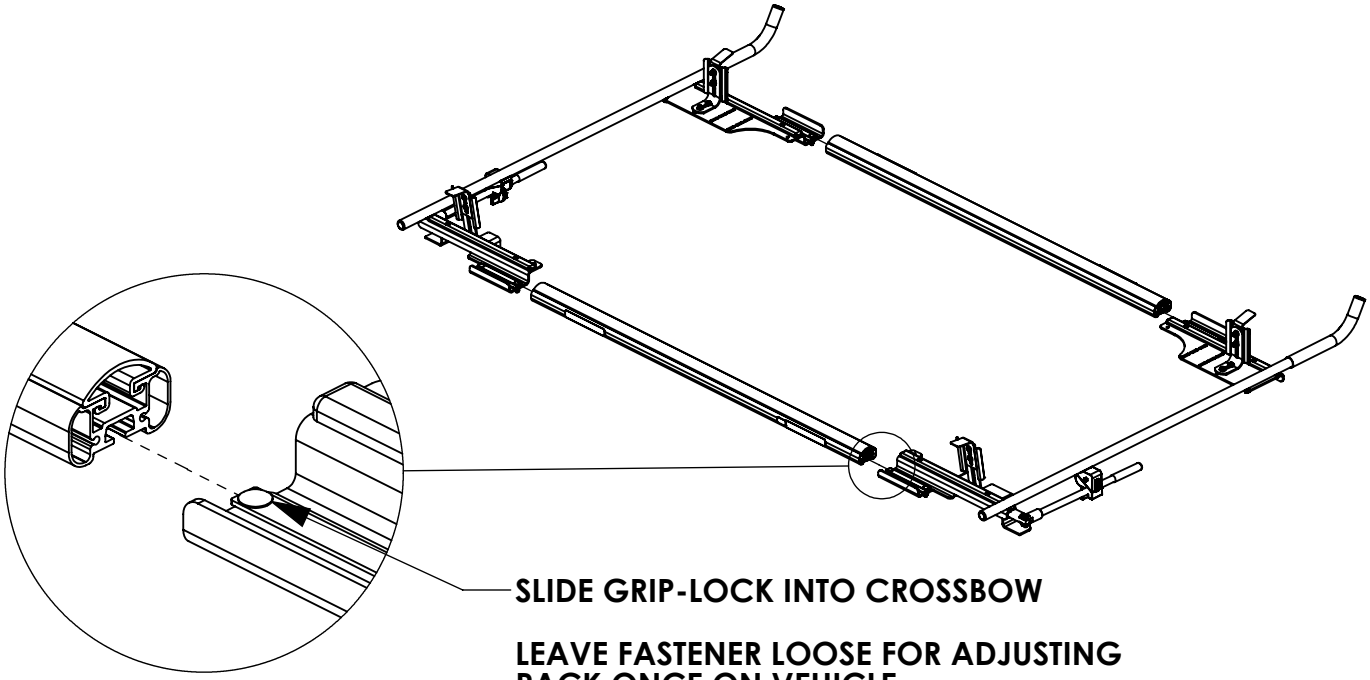

## *STEP 2 - ASSEMBLE FRONT CLAMP*



## *STEP 3 - ASSEMBLE OUTER TUBE*



## *STEP 4 - SUB-ASSEMBLY ON CROSSBOWS*

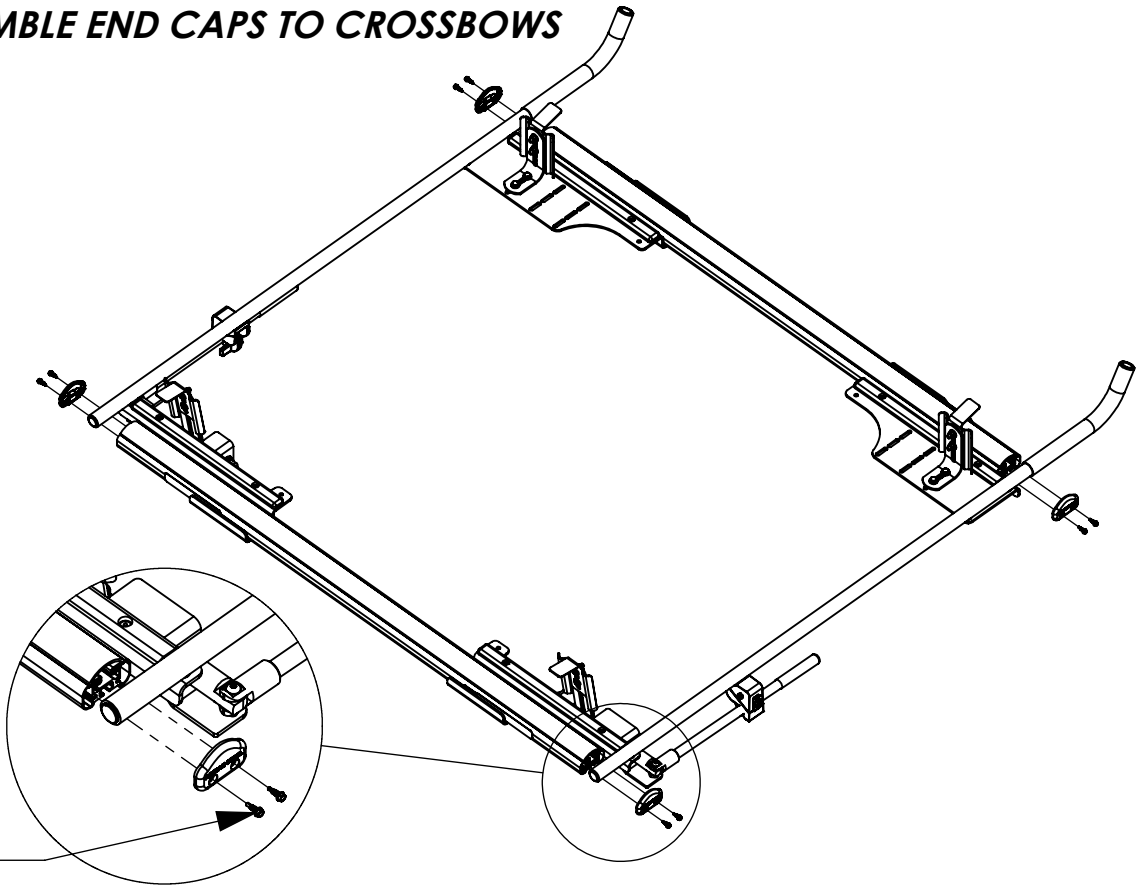


**SLIDE GRIP-LOCK INTO CROSSBOW**

**LEAVE FASTENER LOOSE FOR ADJUSTING RACK ONCE ON VEHICLE**

**ONCE IN POSITION, TIGHTEN ALL LOCATIONS (4 PLACES PER SIDE) 1/2" SOCKET**

## *STEP 5 - ASSEMBLE END CAPS TO CROSSBOWS*



**FAS0473 (2 PER END CAP) 3/8" SOCKET**