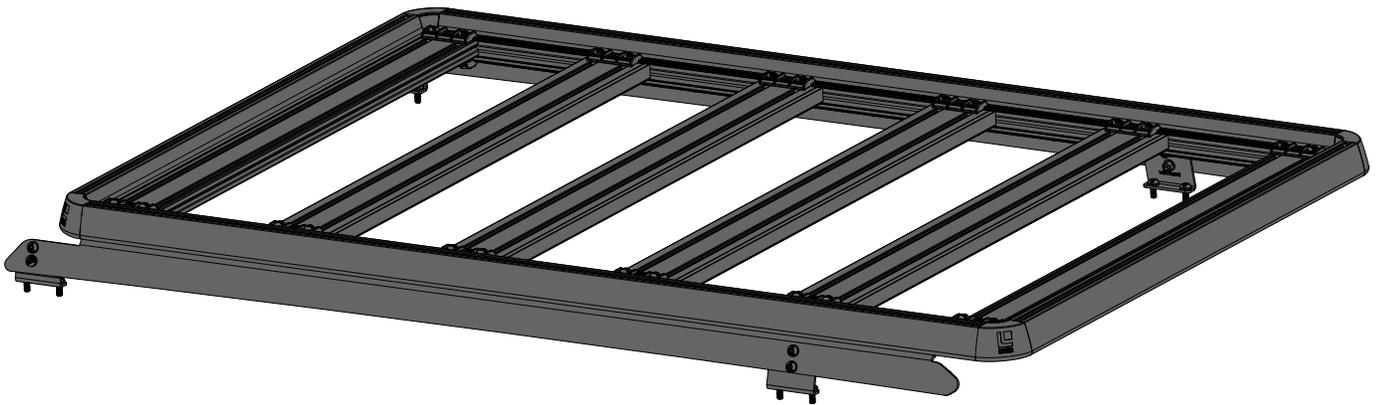


LEITNER

ACSR00F



4RUNNER 5TH GEN

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ASSEMBLY / INSTALLATION INSTRUCTIONS:

ROOF PART NUMBERS:

00-4R5FLRA-1614 (FULL LENGTH)

00-4R53-4RA-1615 (3/4 LENGTH)

TOOLS REQUIRED

- TORQUE WRENCH
- T30 TORX BIT SOCKET
- T40 TORX BIT SOCKET
- 13MM WRENCH
- SILICON RTV SEALANT

INSTALLATION TIME

2-3 HOURS

BASIC KNOWLEDGE OF HAND TOOLS REQUIRED

SKILL LEVEL



3= INTERMEDIATE

▼ READ BEFORE INSTALLING ACS ROOF ▼

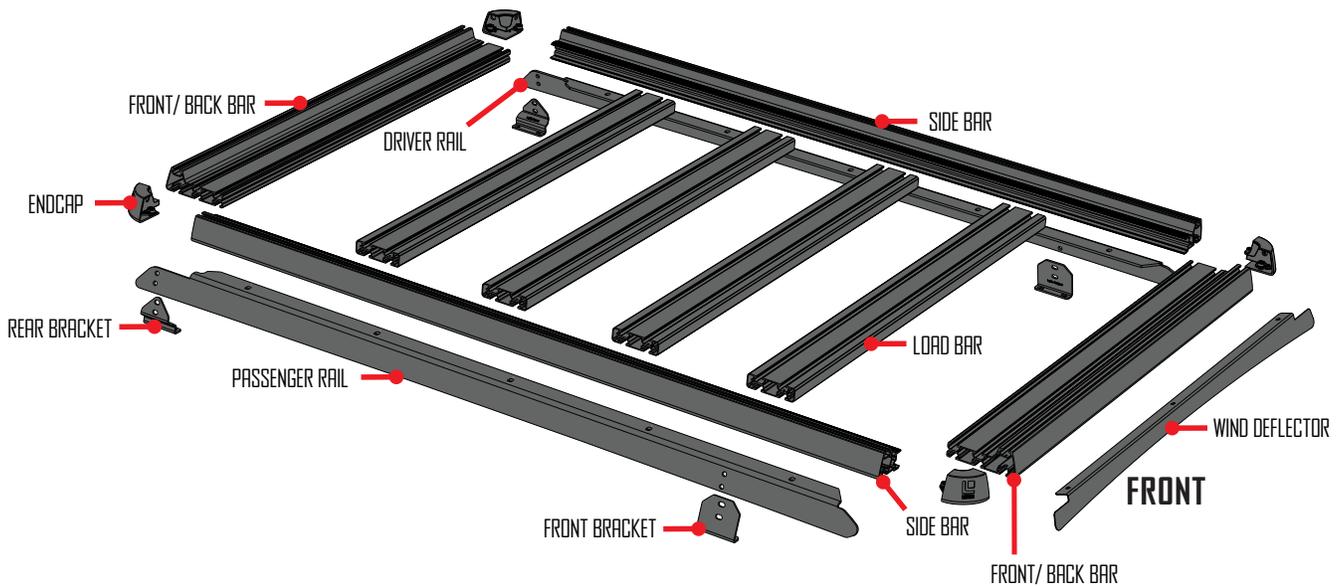
1. DON'T OVER-TIGHTEN BOLTS. ALL 8MM BOLTS = (16FT-LB) ALL 6MM BOLTS = 2FT-LB)

2. LAY DOWN A LARGE AREA OF CARPET OR BLANKETS AS A WORK AREA TO AVOID SCRATCHING PARTS DURING ASSEMBLY.

3. TAKE YOUR TIME TO DO IT RIGHT, MEASURE TWICE, DRILL ONCE.

4. ALTHOUGH THE ACS ROOF IS LIGHT HAVING A FRIEND TO HELP IS RECOMMENDED.

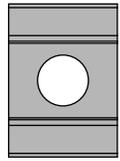
▼ ASSEMBLY OVERVIEW ▼



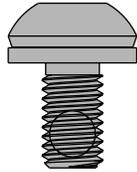
▼ ACS ROOF HARDWARE ▼

NOTE: THE 3/4 RACK HAS LESS HARDWARE THEN THE FULL LENGTH RACK BECAUSE IT HAS ONE LESS LOAD BAR

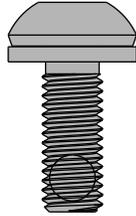
00-4R5FLRA-1614 (FULL LENGTH) HARDWARE



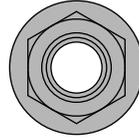
SINGLE T-NUT
-(X36)-



M8 X 14
-(X39)-



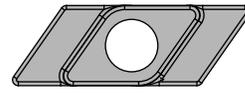
1523-M8 X 20
(X16)



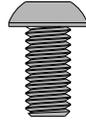
M8 LOCKNUT
(X18)



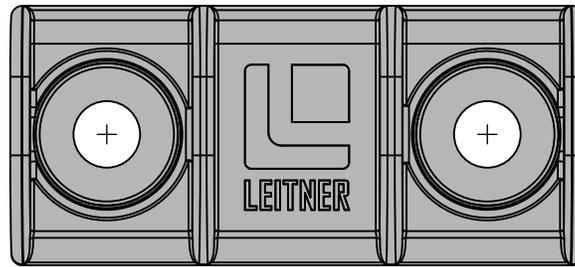
M8 T-BOLT
(X10)



TRAKLOK NUT
(X3)

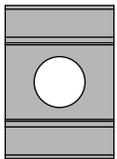


M6 X 12
(X8)

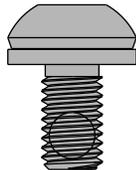


CLAMP PLATE
-(X18)-

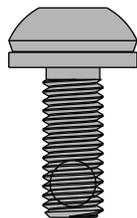
00-4R53-4RA-1615 (3/4 LENGTH) HARDWARE



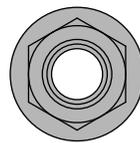
SINGLE T-NUT
-(X32)-



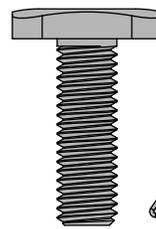
M8 X 14
-(X35)-



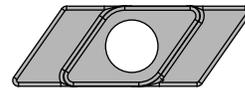
1523-M8 X 20
(X16)



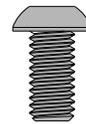
M8 LOCKNUT
(X18)



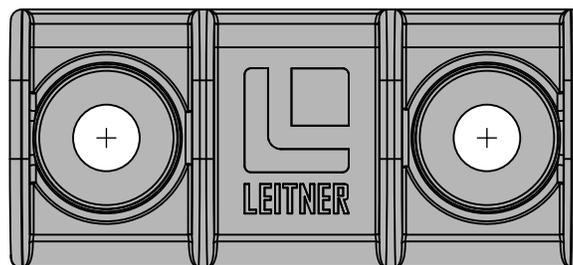
M8 T-BOLT
(X10)



TRAKLOK NUT
(X3)



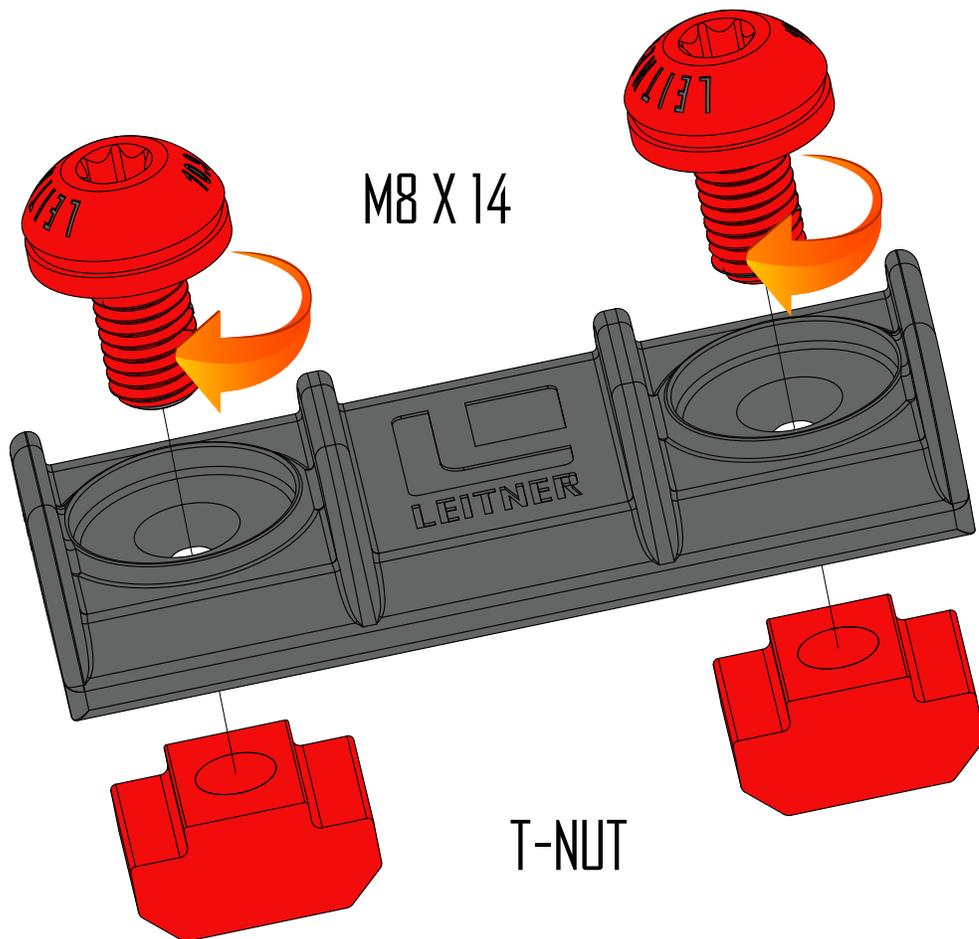
M6 X 12
(X8)



CLAMP PLATE
-(X16)-

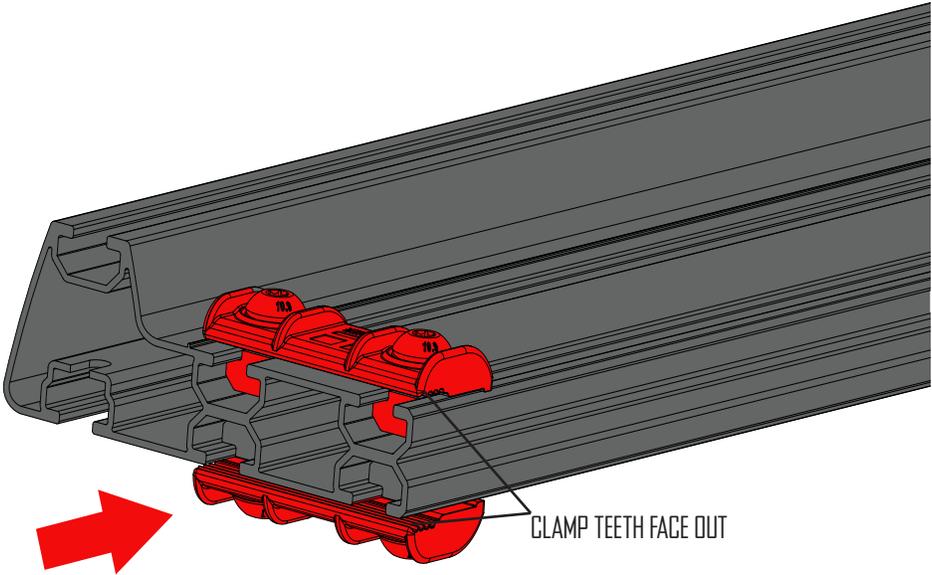
PREP: CLAMP PLATE

- INSTALL TWO M8 X 14 BOLTS THROUGH CLAMP PLATE AND THREAD INTO T-NUT. DO NOT TIGHTEN.
- REPEAT FOR ALL PLATES
- SET ASIDE FOR USE IN NEXT STEP



PREP: PREP FRONT AND REAR BARS

• INSTALL 2 CLAMP PLATE ASSEMBLIES **PER SIDE** INTO THE FRONT AND REAR BARS AS SHOWN. MAKE SURE THE TEETH ON THE CLAMP PLATE FACE OUT.



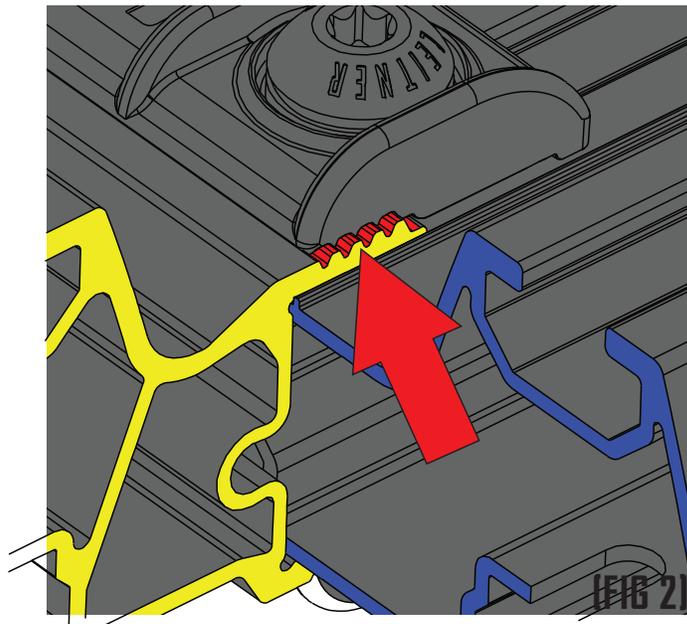
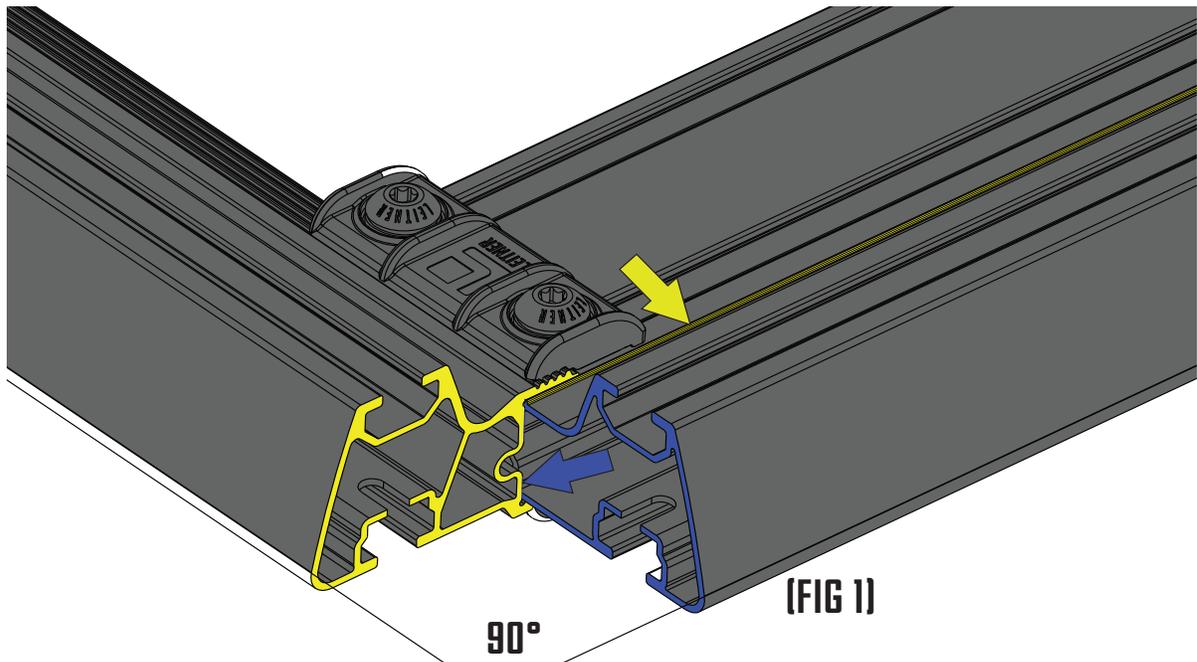
ASSEMBLE: FRAME OF RACK

• ON A SOFT WORKING SURFACE LAY OUT THE FOUR ALUMINUM EXTRUSION BARS AS SHOWN. WE RECOMMEND A MOVING BLANKET LAYED OUT ON A FLAT FLOOR AS THE RACK IS TOO LARGE TO ASSEMBLE ON A TABLE.



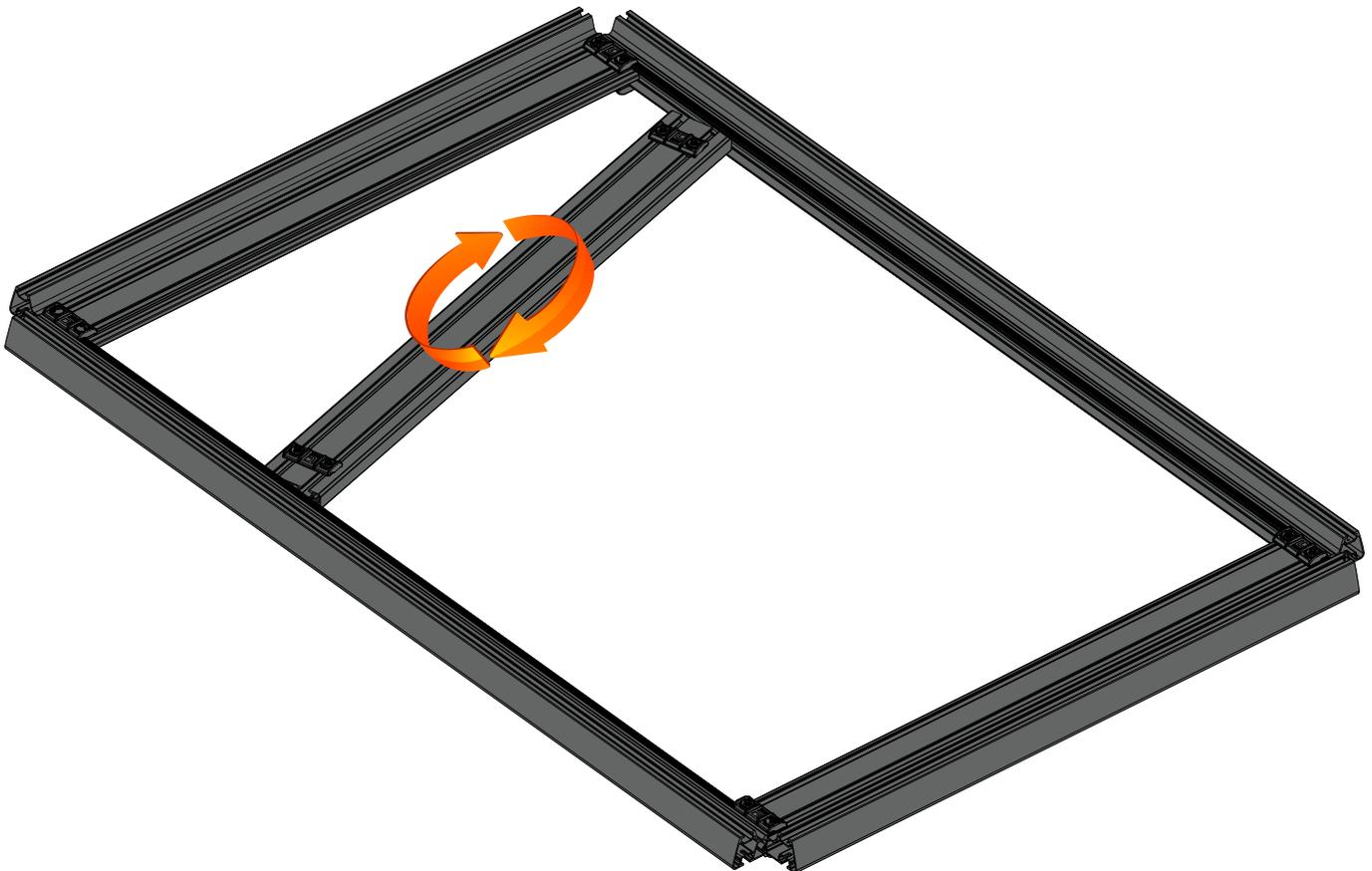
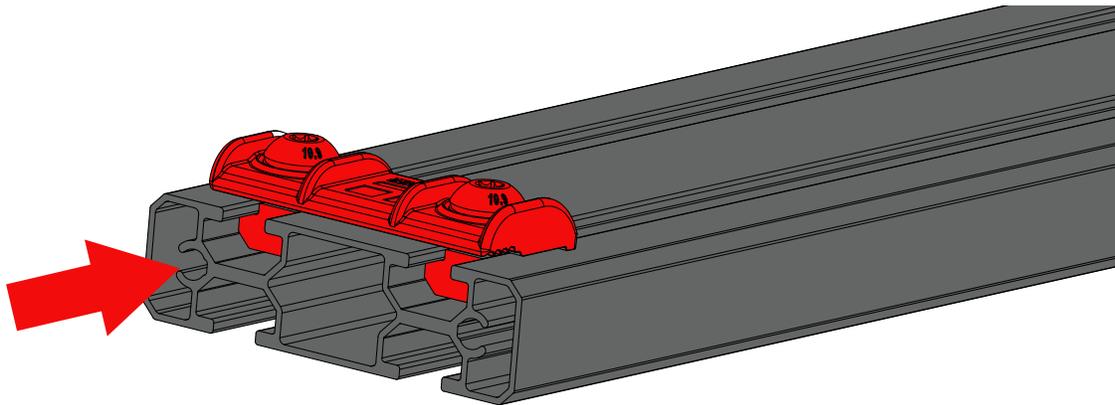
ASSEMBLE: RACK CORNERS

- PUSH ONE OF THE CORNERS OF THE RACK TOGETHER AS SHOWN BELOW. MAKE SURE THE SIDE BAR TOUCHES OFF AS SHOWN ON THE STOP LIP ON THE FRONT/BACK EXTRUSION (**YELLOW SURFACES**). ALSO MAKE SURE THE FRONT/BACK BAR FULLY TOUCHES THE INSIDE OF THE SIDE BAR (**BLUE SURFACES**). YOU CAN MAKE SURE EVERYTHING IS AT A 90 BY USING A CARPENTERS SQUARE (**FIG 1**)
- ADJUST THE CLAMP SO ALL THE TEETH LINE UP WITH THE GROVES IN THE SIDE EXTRUSION (**RED SURFACES**). TIGHTEN THE BOLTS USING A T40 TORX WRENCH TO 16 FT-LB (**FIG 2**)
- REPEAT STEP FOR ALL 4 CORNERS. AFTER YOU ARE SURE EVERYTHING IS SQUARE FLIP THE ASSEMBLY OVER AND TIGHTEN LOWER CLAMPS.



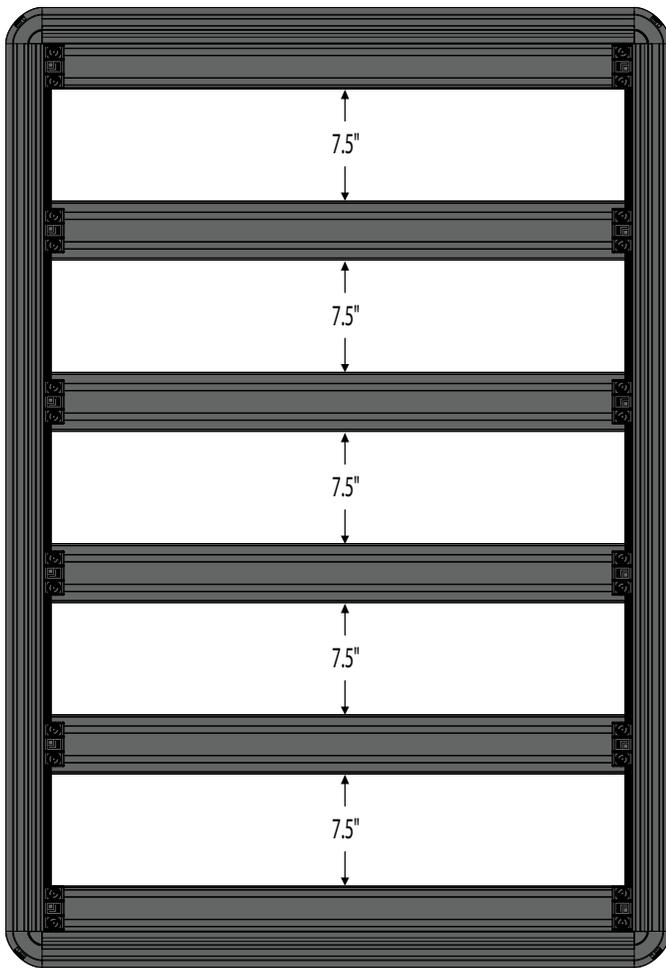
PREP: LOAD BARS

- INSTALL 1 CLAMP PLATE ASSEMBLIES **PER SIDE** INTO THE LOAD BARS AS SHOWN. MAKE SURE THE TEETH ON THE CLAMP PLATE FACE OUT.
- INSTALL THE LOAD BAR INTO THE SIDE EXTRUSION BY ANGELING IT IN AS SHOWN IN THE DIAGRAM.
- REPEAT STEPS FOR ALL INCLUDED LOAD BARS. YOU CAN BUY EXTRA LOAD BARS AND INSTALL THEM AT ANY TIME UP TO MAKE A FULLY FLAT PLATFORM.
- EVEN SPACING FOR INCLUDED LOAD BARS IS SHOWN ON NEXT PAGE.

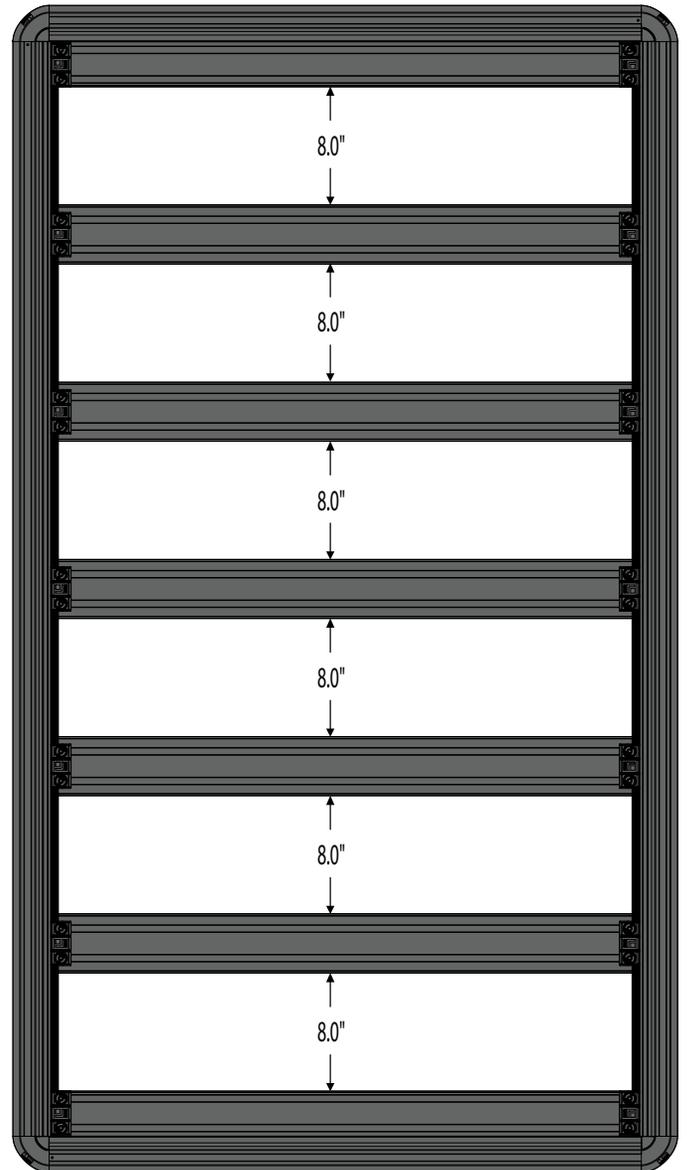


ADJUST: LOAD BAR DISTANCE

• THE LOAD BARS ARE DESIGNED TO SLIDE AND CAN BE POSITIONED ANYWHERE ALONG THE SIDE RAIL. YOU CAN ALSO ADD AS MANY LOAD BARS AS YOU LIKE UP TO AN ALMOST FULLY FLAT PLATFORM. HOWEVER IF YOU WOULD LIKE EVENLY SPACED LOAD BARS THE DIMENSIONS ARE BELOW.



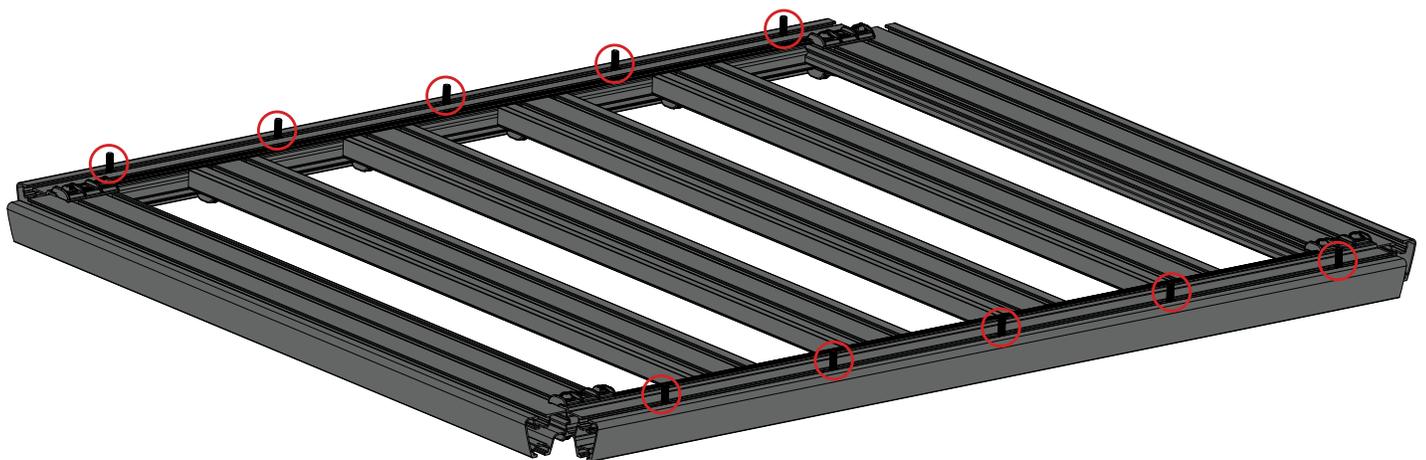
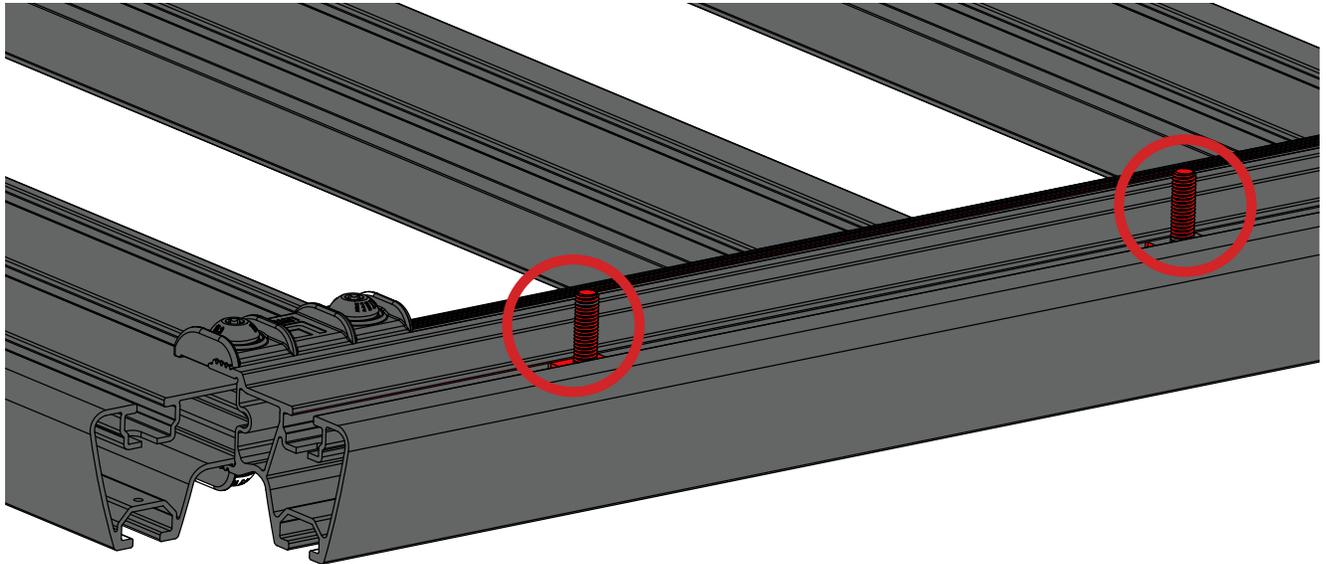
00-4R53-4RA-1615 (3/4 LENGTH)



00-4R5FLRA-1614 (FULL LENGTH)

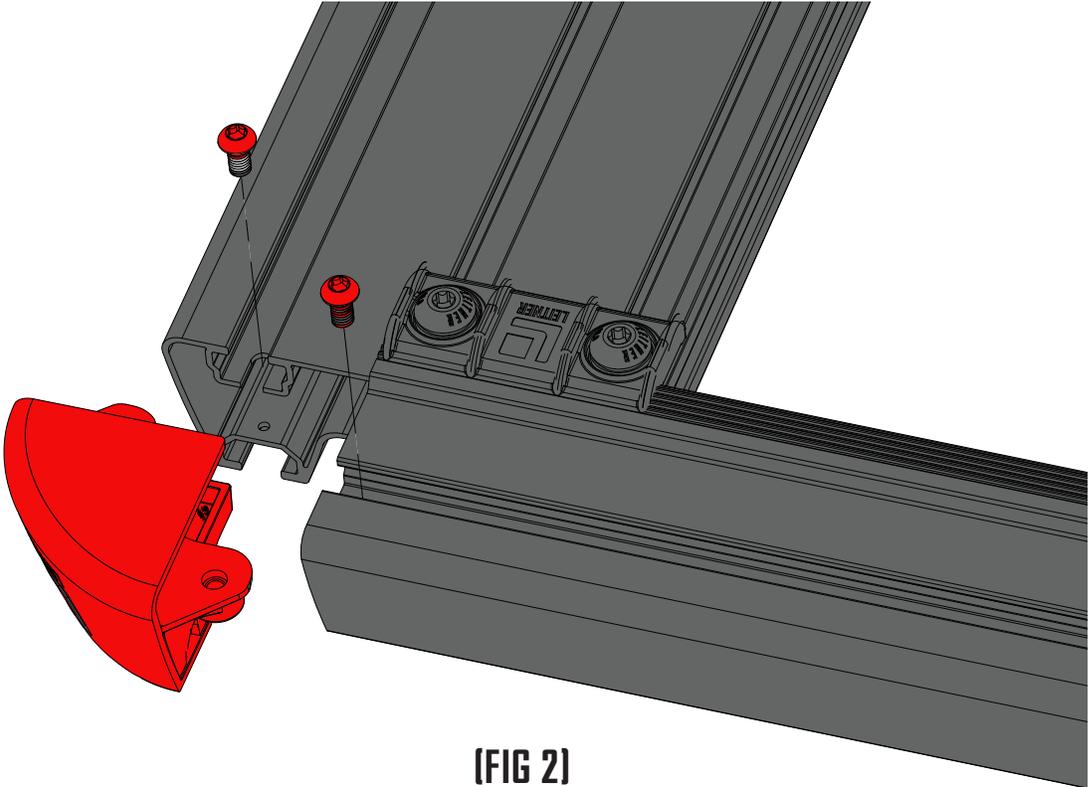
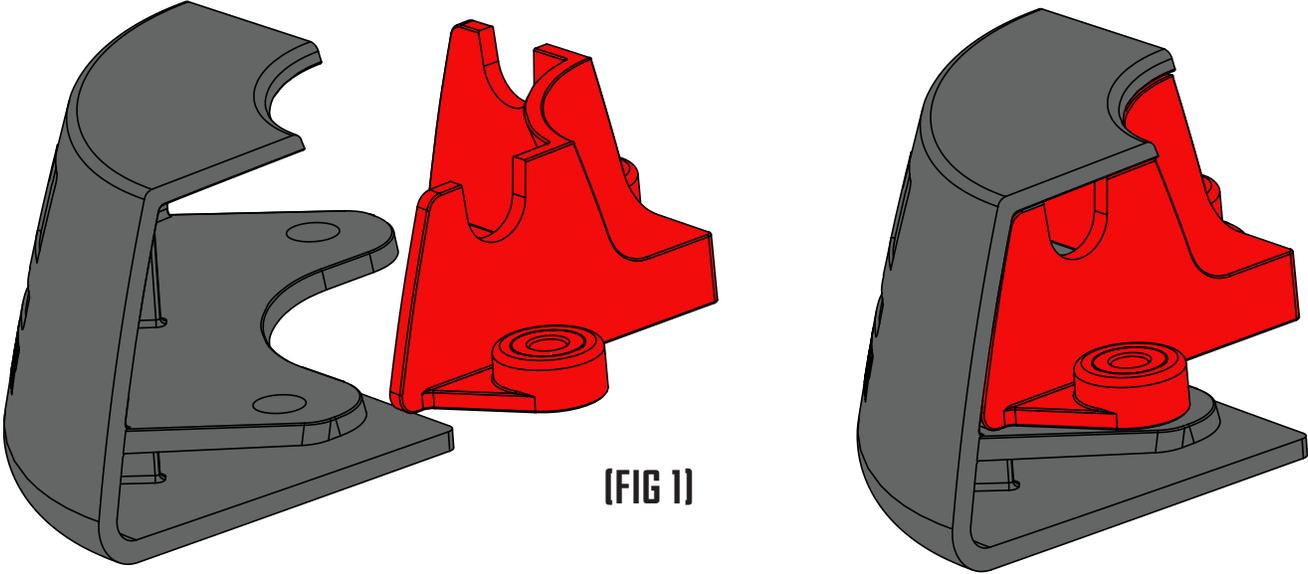
ASSEMBLE: T-BOLT FASTENERS

- FLIP THE RACK OVER SO YOU CAN SEE THE BOTTOM.
- INSTALL 5 T-BOLTS PER SIDE INTO THE SIDE RAIL EXTRUSION ON THE BOTTOM OF THE RACK.



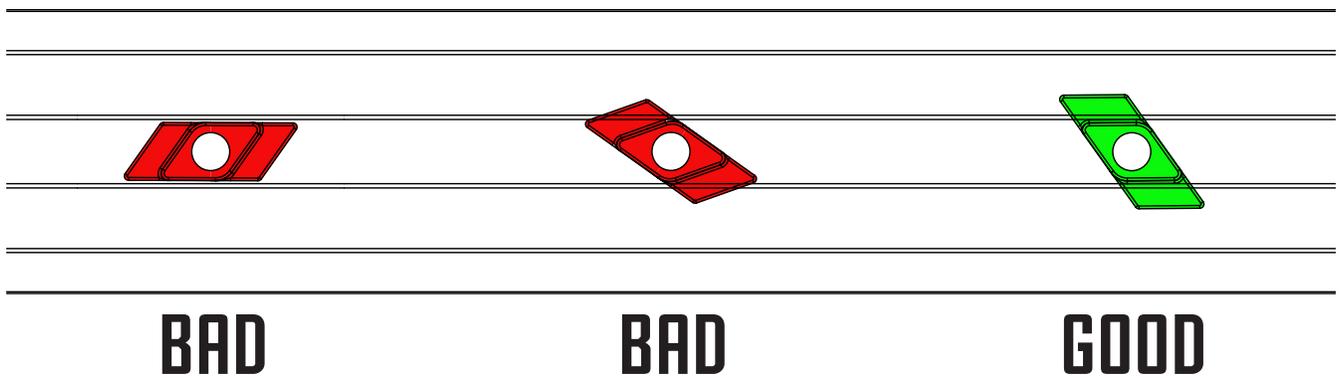
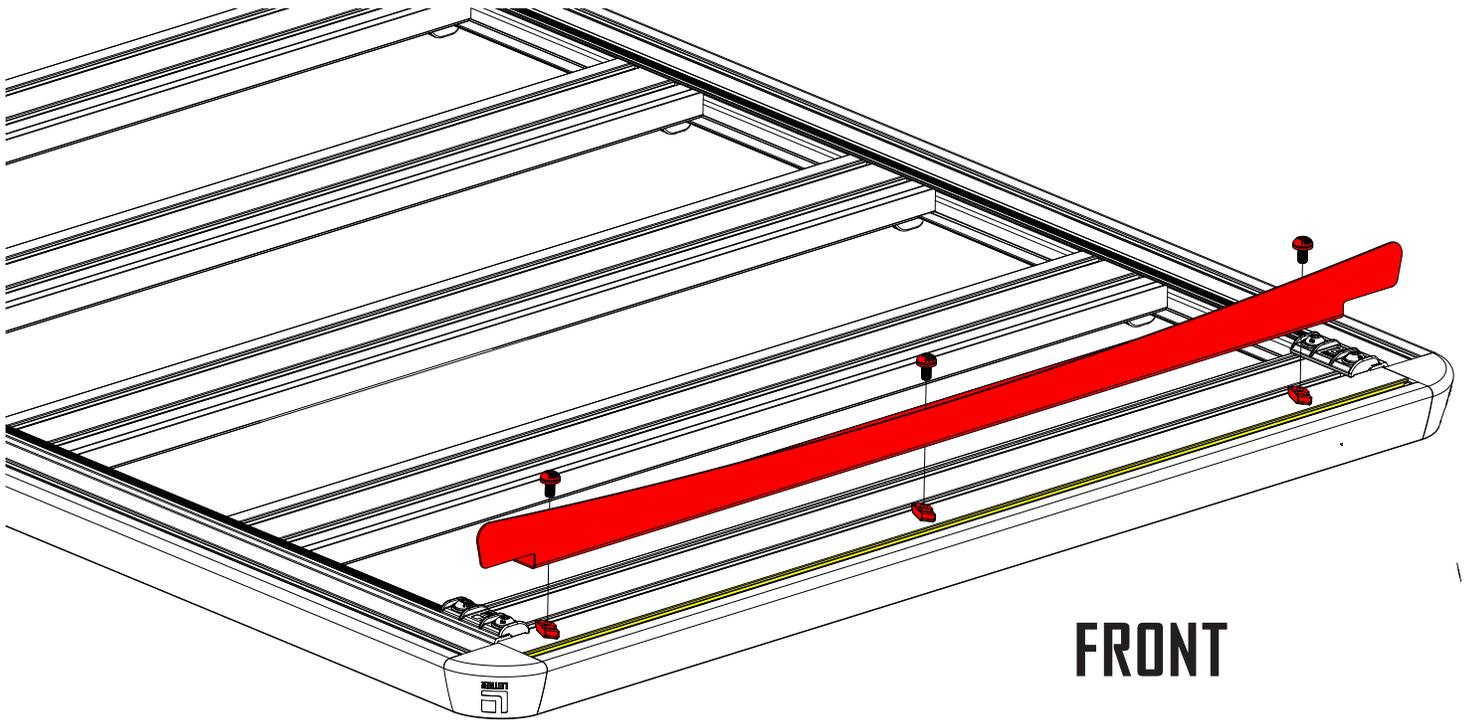
ASSEMBLE: ENDCAPS

- ASSEMBLE THE PLASTIC RETAINER INTO THE CORNER CAP AS SHOWN BELOW. (FIG 1)
- USING TWO M6 X 12 FASTENERS SECURE THE ENDCAPS TO THE CORNERS OF THE RACK (FIG 2) TIGHTEN TO 24 IN-LB USING A T30 TORX WRENCH.



INSTALL: WIND DEFLECTOR

- USING M8 X 14 BOLTS AND 3X TRAKLOK NUTS, FASTEN WIND DEFLECTOR AS SHOWN TO THE YELLOW T-SLOT IN THE LOAD BAR. (FIG A)
- NOTE: THE WIND DEFLECTOR CAN BE MOVED TO OTHER LOCATIONS. THIS MIGHT BE THE CASE IF IT INTERFERES WITH THE SUNROOF.



• NOTE: IT IS EXTREMELY IMPORTANT THAT THE TRAKLOK NUTS ROTATE FULLY INTO PLACE AS SHOWN IN DIAGRAM AND TIGHTEN DOWN UNDER THE LIP OF THE ALUMINUM EXTRUSION.

REMOVE: FACTORY ROOF RACK

· REMOVE FACTORY ROOF RACK (IF SO EQUIPPED) USING A T40 TORX WRENCH. SOME TRUCKS HAVE JUST A RAIL ON EACH SIDE THAT HAS THE SAME SIZE BOLTS UNDER A PLASTIC COVER.



NOTE: WHEN LOOSENING BOLTS, LOOSEN BOLTS PROGRESSIVELY TOGETHER. FAILURE TO DO SO CAN DISLODGE NUTPLATE WITHIN ROOF CAVITY.



INSTALL: REAR ROOF BRACKETS

- USE A PAIR OF PLIERS TO SQUEEZE AND BREAK OFF THE PLASTIC SPACERS STICKING OUT FROM THE SHEET METAL.
- APPLY A HEAVY BEAD OF SILICONE AROUND THE HOLE OPENINGS. (BLUE CIRCLES)
- INSTALL REAR BRACKET AND TIGHTEN SUPPLIED M8 X 20 BOLTS TO 14FT-LB USING A T40 TORX WRENCH.
- REPEAT FOR BOTH PASSENGER AND DRIVERS SIDE.



INSTALL: FRONT ROOF BRACKETS

- USE A PAIR OF PLIERS TO SQUEEZE AND BREAK OFF THE PLASTIC SPACERS STICKING OUT FROM THE SHEET METAL.(AS IN PREVIOUS STEP)
- APPLY A HEAVY BEAD OF SILICONE AROUND THE HOLE OPENINGS.(AS IN PREVIOUS STEP)
- INSTALL FRONT BRACKET AND TIGHTEN SUPPLIED M8 X 20 BOLTS TO 14FT-LB USING A T40 TORX WRENCH.
- REPEAT FOR BOTH PASSENGER AND DRIVERS SIDE.



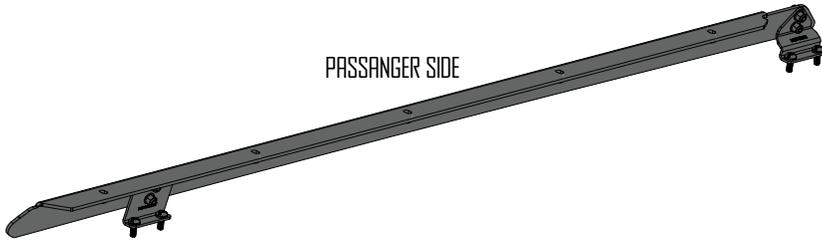
INSTALL: SIDE PLATES

- THE VEHICLE SHOULD LOOK LIKE THIS WITH A BRACKET ON EACH CORNER.

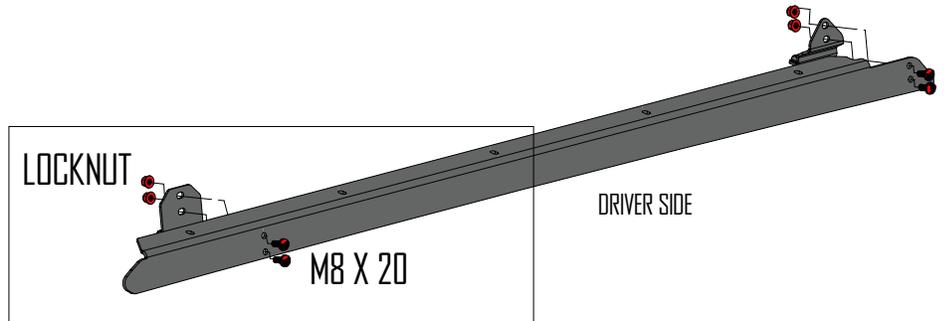


INSTALL: SIDE PLATES

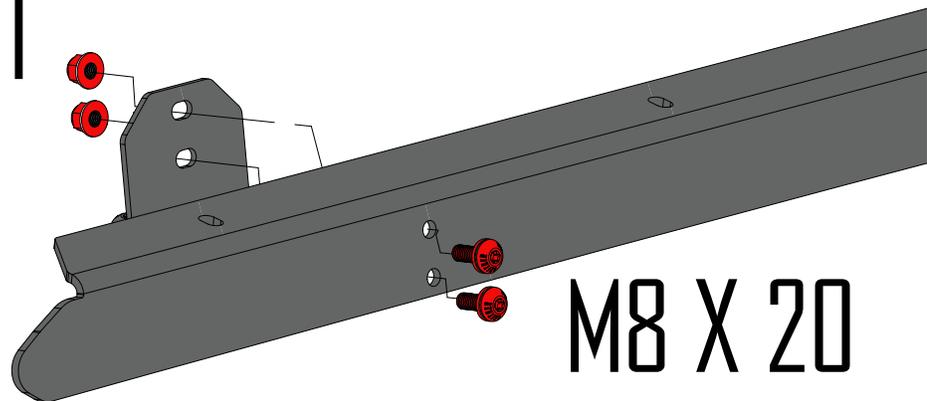
- USING 4 M8 X 20 BOLTS AND LOCKNUTS FASTEN THE SIDE PLATES TO THE BRACKETS INSTALLED PREVIOUSLY TORQUE BOLTS TO 16 FT-LB. YOU WILL NEED A 13MM WRENCH AND A T40 TORX DRIVER FOR THIS STEP



FRONT



LOCKNUT



FRONT DRIVER CORNER
DETAIL VIEW

INSTALL: SIDE PLATES

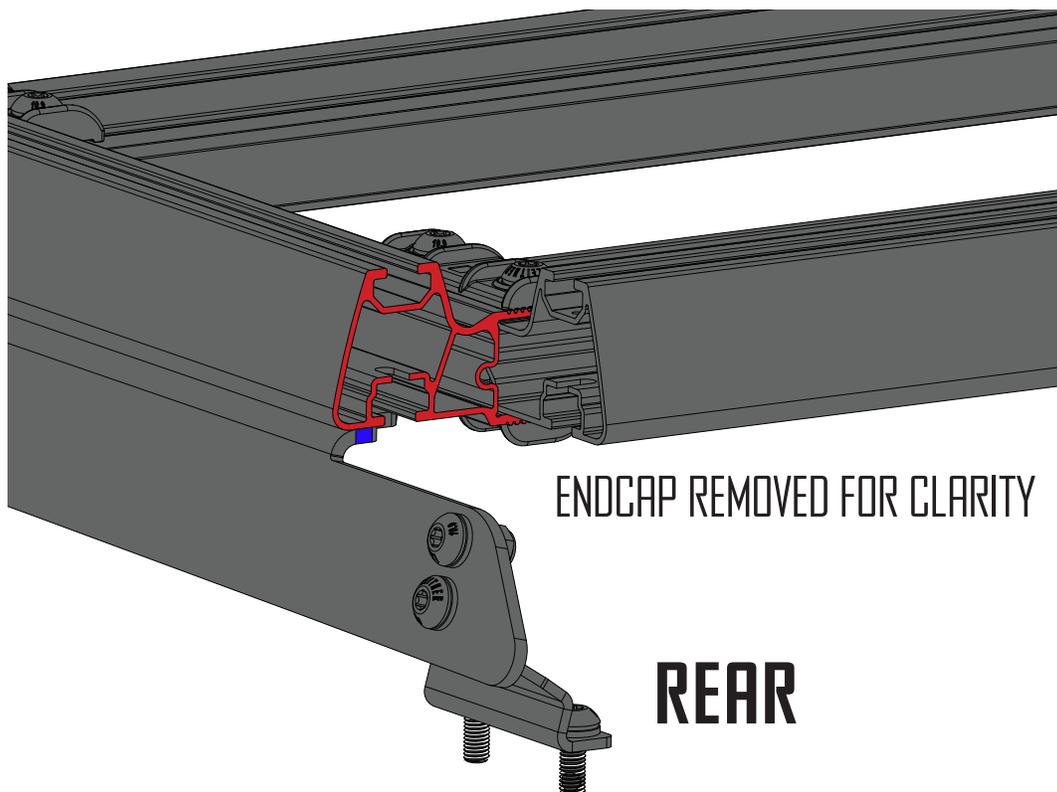
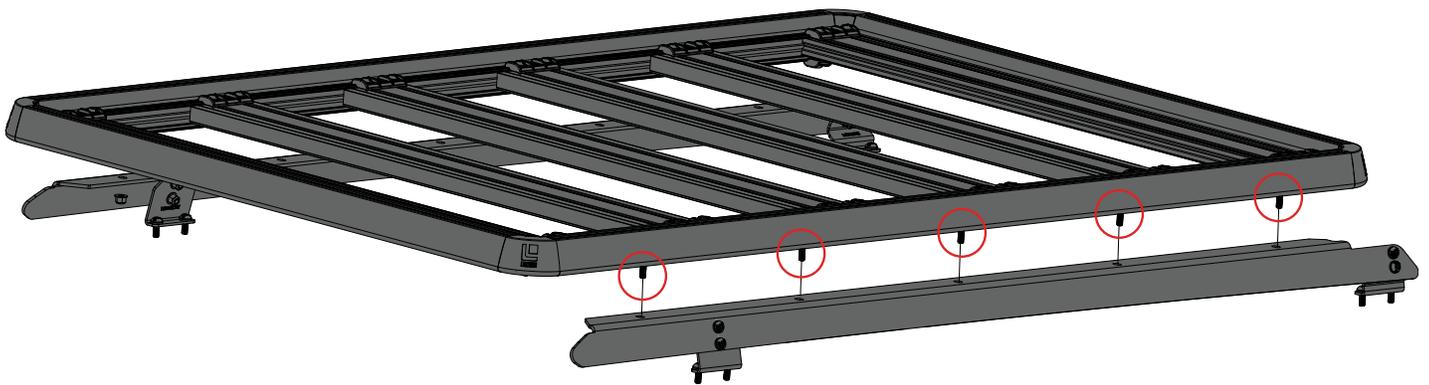
- THE VEHICLE SHOULD LOOK LIKE THIS WITH BOTH PASSENGER AND DRIVERS SIDE RAILS INSTALLED.



INSTALL: RACK ON TRUCK

- ALIGN THE 10 T-BOLTS (5 PER SIDE) WITH THE SLOTS IN THE RAILS MOUNTED IN THE PREVIOUS STEP. THREAD ON M8 LOCKNUTS TO EACH.
- ADJUST THE RACK SO THAT THE SIDE BAR EXTRUSIONS LINE UP WITH THE END OF THE RAILS ON EACH SIDE. "RED SURFACE TO BLUE SURFACE"
- TORQUE ALL M8 LOCKNUTS INSTALLED IN PREVIOUS STEP TO 14 FT-LB USING A 13MM WRENCH.

A MINIMUM OF 2 PEOPLE ARE REQUIRED FOR THIS STEP. WE RECOMMEND USING A MOVING BLANKET ON THE ROOF TO PREVENT SCRATCHES.



FINISHED

• TAKE A SECOND AND ADMIRE YOUR HANDYWORK. NOW GO OUT AND GET YOURSELF SOME GEAR POD ROOF'S!



USE GUIDELINES

WHEN USING LEITNER DESIGNS CARRIERS AND ACCESSORIES, THE USER MUST UNDERSTAND THE PRECAUTIONS. THE POINTS LISTED BELOW WILL ASSIST YOU IN USING THE RACK SYSTEM AND WILL ENCOURAGE SAFETY.

-FOR QUALITY FITS AND SAFETY, USE ONLY THE RECOMMENDED RACK OR ACCESSORIES. DO NOT ASSUME A RACK WILL FIT, ALWAYS CHECK THE CURRENT FIT GUIDE WHEN OBTAINING A NEW VEHICLE.

-THE MAXIMUM LOAD IS NOT TO BE EXCEEDED. (150# OFF ROAD – 300# ON ROAD). HOWEVER, **THIS LIMIT IS ALWAYS SUBORDINATE TO THE MAXIMUM LOAD RECOMMENDED BY THE MANUFACTURER OF THE VEHICLE ITSELF.** IT IS ALWAYS THE LOWER MAXIMUM RECOMMENDED LOAD THAT APPLIES. MAX TRUCK LOAD = LOAD CARRIER WEIGHT + ANY FITTED CARRIER ACCESSORIES + THE WEIGHT OF THE LOAD ITSELF.

-HIGH SPEED OFF ROAD DRIVING EVEN WITH A LIGHT LOAD CAN CAUSE DAMAGE TO THE RACK, ACCESSORIES AND VEHICLE BODY. DAMAGE CAUSED BY HIGH SPEED DRIVING AND ABUSE IS NOT COVERED UNDER WARRANTY.

-MAKE SURE ALL KNOBS, BOLTS, SCREWS, STRAPS, AND LOCKS ARE FIRMLY ATTACHED, TIGHTENED AND LOCKED BEFORE EVERY TRIP. KNOBS, BOLTS, SCREWS, STRAPS AND LOCKS MUST BE PERIODICALLY INSPECTED FOR SIGNS OF WEAR, CORROSION, AND FATIGUE. CHECK YOUR LOAD AT STOPS DURING THE TRIP TO ENSURE CONTINUED FASTENING SECURITY.

-CHECK LOCAL AND STATE LAWS GOVERNING PROJECTION OF OBJECTS BEYOND THE PERIMETER OF A VEHICLE. BE AWARE OF THE WIDTH AND HEIGHT OF YOUR CARGO SINCE LOW CLEARANCE BRANCHES, BRIDGES, AND PARKING GARAGES CAN AFFECT THE LOAD. ALL CARGO WILL AFFECT THE VEHICLE'S DRIVING BEHAVIOR. NEVER DRIVE WITH ANY LOCK, KNOB OR RACK IN AN OPEN OR UNLOCKED POSITION. ALL LONG LOADS SUCH AS, BUT NOT LIMITED TO, SAILBOARDS, SURFBOARDS, KAYAKS, CANOES, AND LUMBER MUST BE TIED DOWN FRONT AND REAR TO THE BUMPERS OR TOW HOOKS OF THE VEHICLE.

-ALL LOCKS MUST BE TURNED AND MOVED PERIODICALLY TO ENSURE SMOOTH OPERATION. USE GRAPHITE OR DRY LUBRICANT TO HELP THIS. LEITNER DESIGNS LOCKS ARE DESIGNED TO DETER VANDALISM AND THEFT BUT SHOULD NOT BE CONSIDERED THEFT PROOF. REMOVE VALUABLE GEAR IF YOUR VEHICLE IS UNATTENDED FOR AN EXTENDED PERIOD. PLACE AT LEAST ONE KEY IN THE GLOVE COMPARTMENT.

-FOR SAFETY TO YOUR VEHICLE AND RACK SYSTEM, OBEY ALL POSTED SPEED LIMITS AND TRAFFIC CAUTIONS. ADAPT YOUR SPEED TO THE CONDITIONS OF THE ROAD AND THE LOAD BEING CARRIED.

-DO NOT USE LEITNER DESIGNS LOAD CARRIERS AND ACCESSORIES FOR PURPOSES OTHER THAN THOSE FOR WHICH THEY WERE DESIGNED. DO NOT EXCEED THEIR CARRYING CAPACITY. FAILURE TO FOLLOW THESE GUIDELINES OR THE PRODUCT'S INSTRUCTIONS WILL VOID THE WARRANTY.

WARRANTY

LEITNER DESIGNS WARRANTS PRODUCT TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP, FOR TERMS SPECIFIED BELOW, PROVIDED THERE HAS BEEN NORMAL USE AND PROPER MAINTENANCE. ALL REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF ANY ITEM FOUND BY THE FACTORY TO BE DEFECTIVE WITHIN THE TIME PERIOD SPECIFIED. IF YOU HAVE A WARRANTY CLAIM, FIRST YOU MUST CALL OUR FACTORY AT THE NUMBER BELOW FOR INSTRUCTIONS. YOU MUST RETAIN PROOF OF PURCHASE AND SUBMIT A COPY WITH ANY ITEMS RETURNED FOR WARRANTY WORK. UPON COMPLETION OF WARRANTY WORK, IF ANY, WE WILL RETURN THE REPAIRED OR REPLACED ITEM OR ITEMS TO YOU FREIGHT PREPAID. DAMAGE TO OUR PRODUCTS CAUSED BY ACCIDENTS, FIRE, VANDALISM, NEGLIGENCE, MIS-INSTALLATION, MISUSE, ACTS OF GOD, OR BY DEFECTIVE PARTS NOT MANUFACTURED BY US, IS NOT COVERED UNDER THIS WARRANTY.

THE WARRANTY TIME PERIOD IS AS FOLLOWS: (2) TWO YEARS FROM DATE OF PURCHASE.

HIGH SPEED OFF ROAD DRIVING EVEN WITH A LIGHT LOAD CAN CAUSE DAMAGE TO THE RACK, ACCESSORIES AND VEHICLE BODY. DAMAGE CAUSED BY HIGH SPEED OFF ROAD DRIVING AND ABUSE IS NOT COVERED UNDER WARRANTY.

ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE CREATED HEREBY ARE LIMITED IN DURATION TO THE SAME DURATION AND SCOPE AS THE EXPRESS WRITTEN WARRANTY. OUR COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

FOR WARRANTY ISSUES WITH THIS PRODUCT PLEASE CALL LEITNER DESIGNS CUSTOMER SERVICE **949-395-3049** OR EMAIL US AT **SALES@LEITNERDESIGNS.COM**