

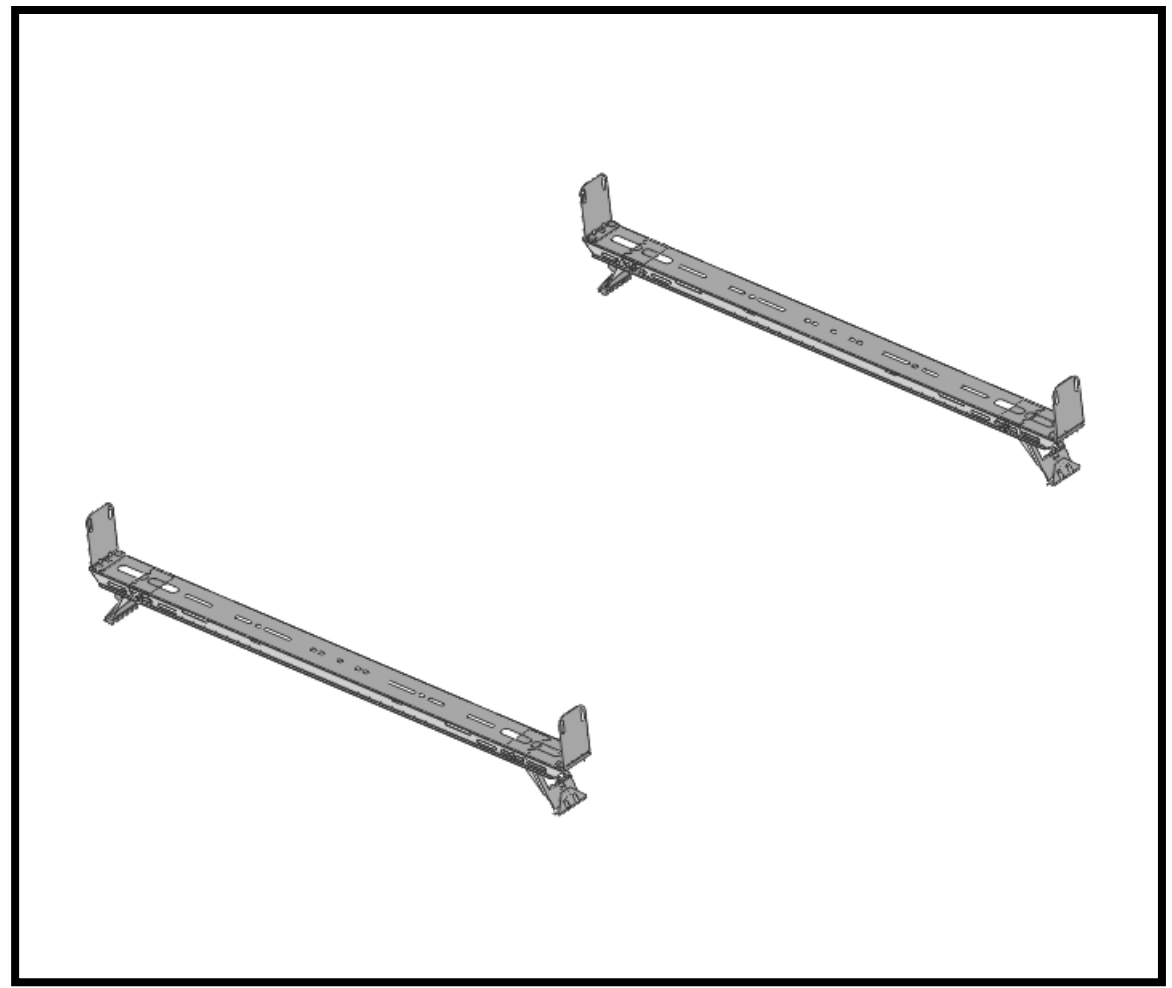
ASSEMBLY / INSTALLATION INSTRUCTIONS

Recommended Tools

- Air or Hand Ratchet 
- 7/16" Combo Wrench 
- Torque Wrench 
- 7/16" Socket 

Hardware

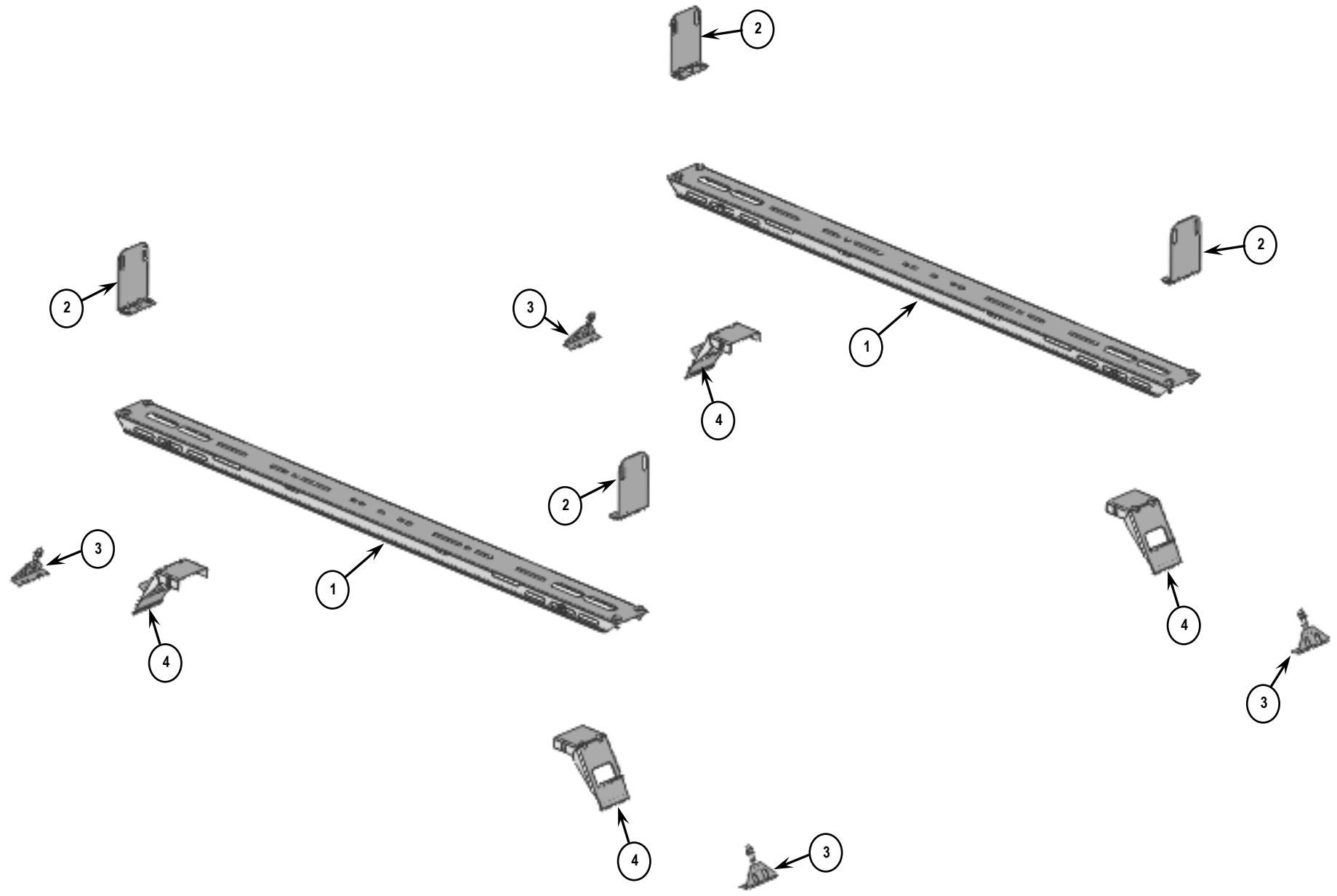
-  3/8-16 x 3/4 CARRIAGE BOLT
-  3/8 FLAT WASHER
-  3/8 E-STOP NUT



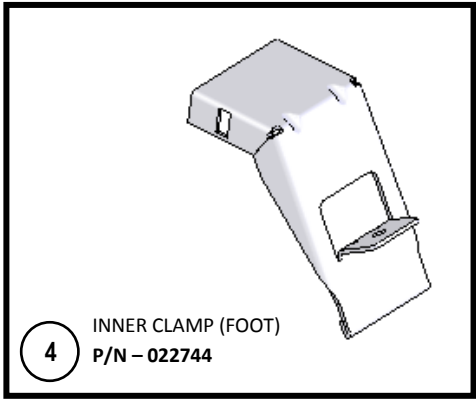
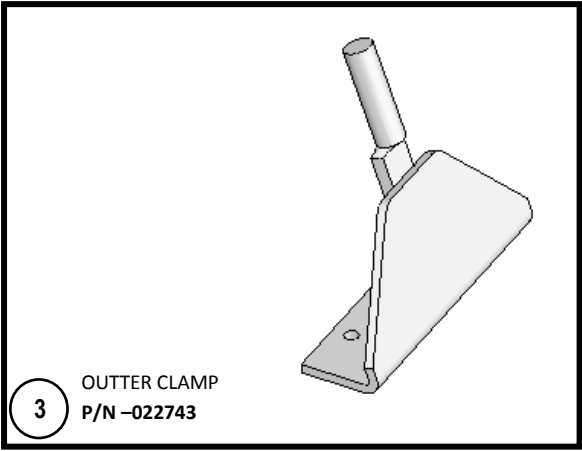
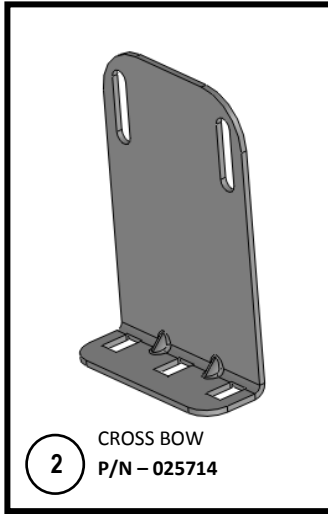
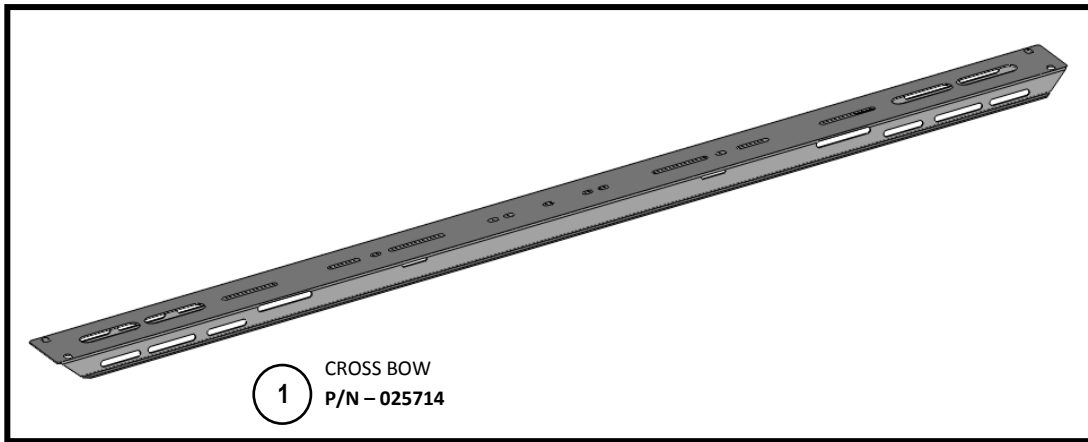
FULL SIZE UTILITY CARRIER

022553KP

EXPLODED VIEW



COMPONENTS



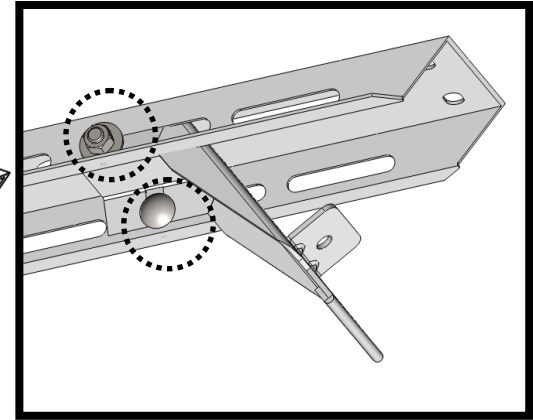
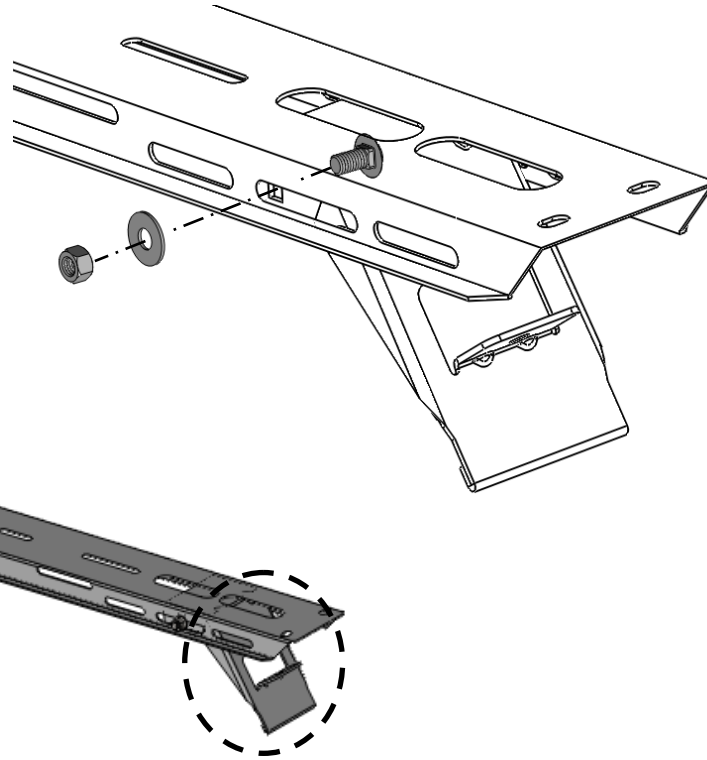
ATTACHING INNER CLAMP TO FRONT CROSSBOW

ATTACHING INNER CLAMPS (FEET)

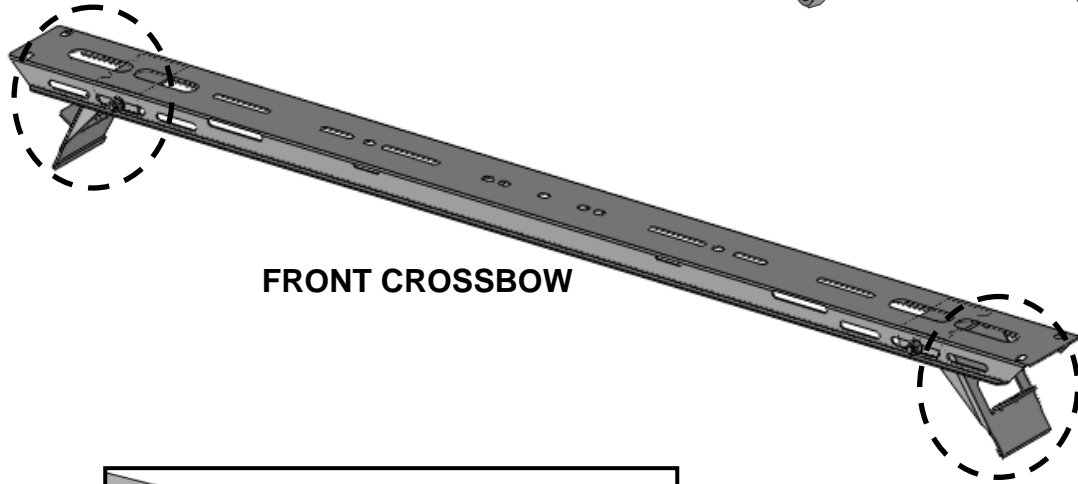
Attach **Inner clamps** to each end as shown, using:

- (4) 3/8-16 x 3/4 Carriage Bolts,
- (4) 3/8 Washers and (4) 3/8 E-Stop Nuts **per clamp**.

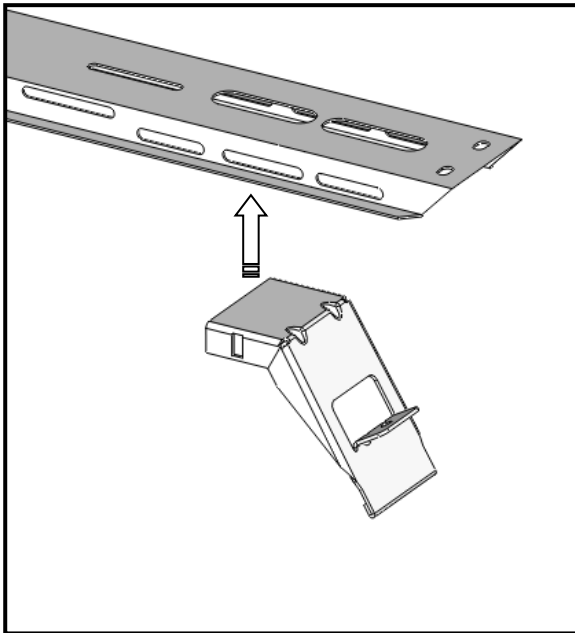
**NOTE: THE DISTANCE BETWEEN THE FEET IS MAKE SPECIFIC.
USE THE CHART BELOW FOR FULL SIZE VAN DIMENSIONS.**



TORQUE SETTING:
Size - 3/8 = 22-30 Ft.-Lbs.



FRONT CROSSBOW



OUTSIDE DIMENSION OF FEET (O.D.)

FRONT CROSSBOW FOOT PLACEMENT

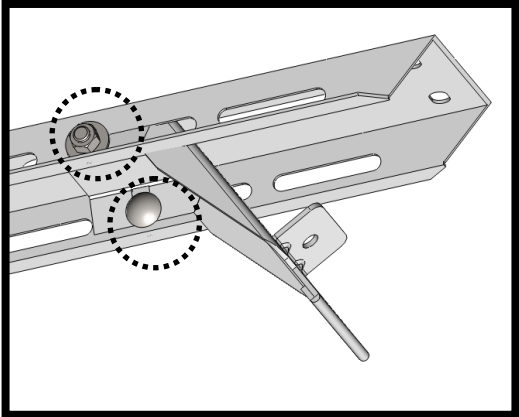
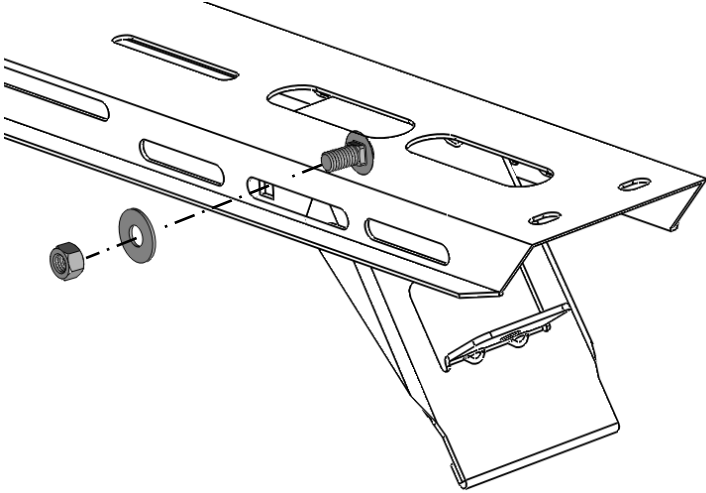
VEHICLE	FRONT FEET O. D.
Chevrolet	58-1/2"
Ford	64"

ATTACHING INNER CLAMP TO REAR CROSSBOW

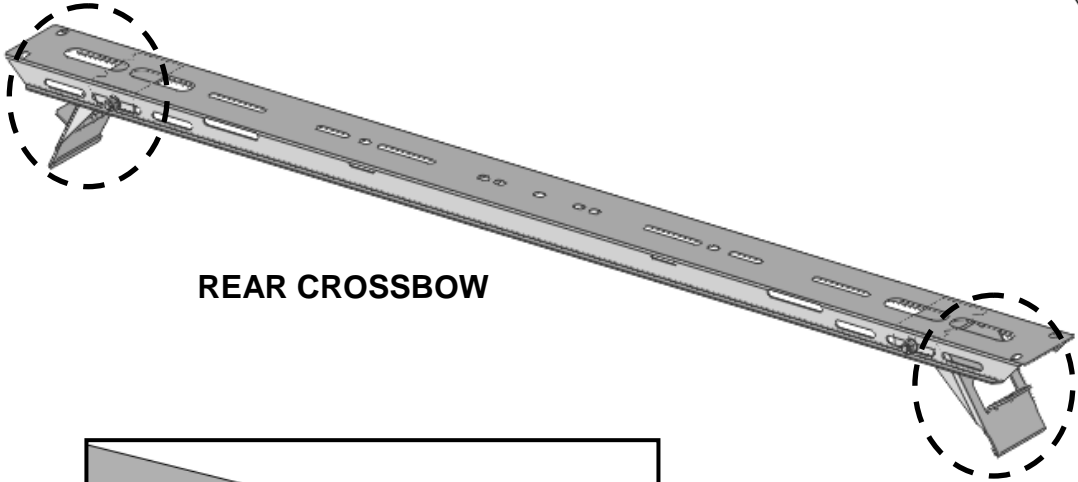
ATTACHING INNER CLAMPS (FEET)

Attach **Inner clamps** to each end as shown, using:
 (4) 3/8-16 x 3/4 Carriage Bolts,
 (4) 3/8 Washers and (2) 3/8 E-Stop Nuts **per clamp**.

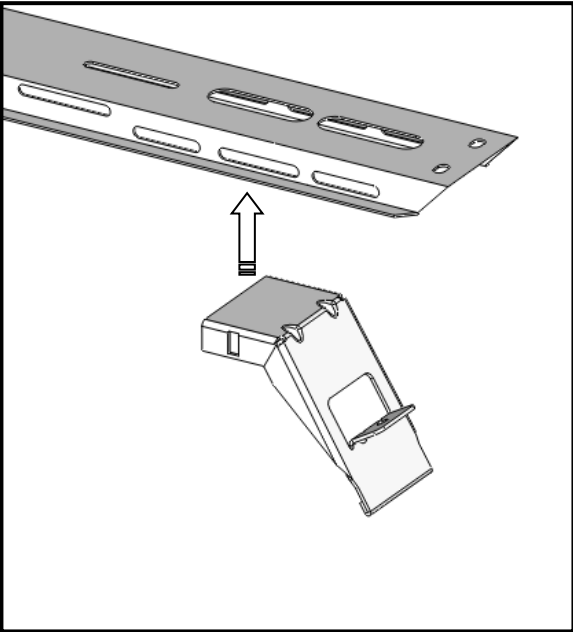
**NOTE: THE DISTANCE BETWEEN THE FEET IS MAKE SPECIFIC.
 USE THE CHART BELOW FOR FULL SIZE VAN DIMENSIONS.**



TORQUE SETTING:
 Size - 3/8 = 22-30 Ft.-Lbs.



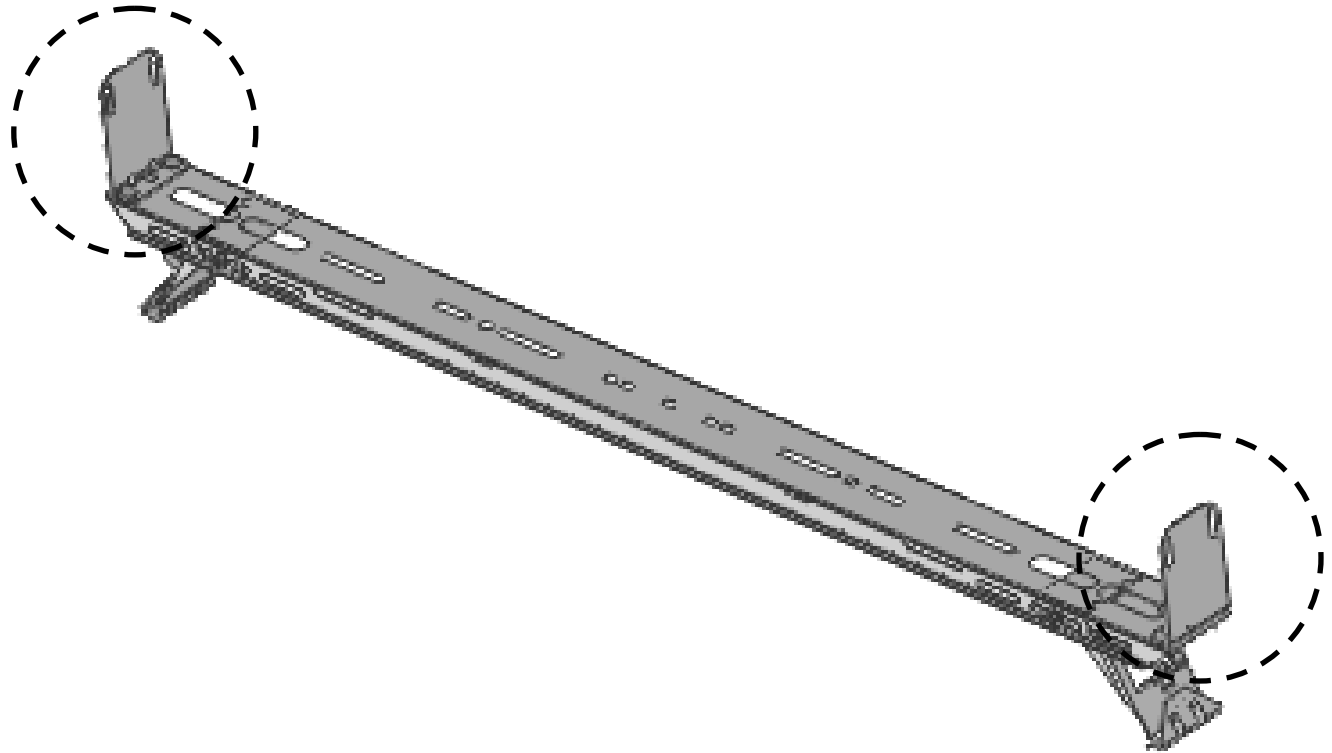
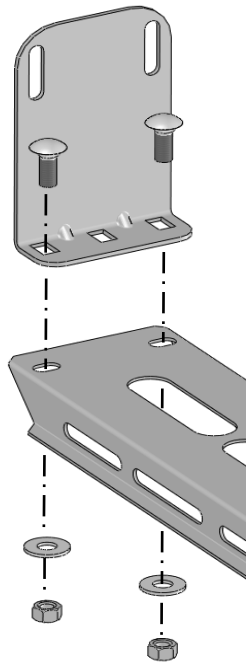
REAR CROSSBOW



REAR CROSSBOW FOOT PLACEMENT

VEHICLE	REAR FEET O. D.
Chevrolet	57-1/2"
Ford	63"

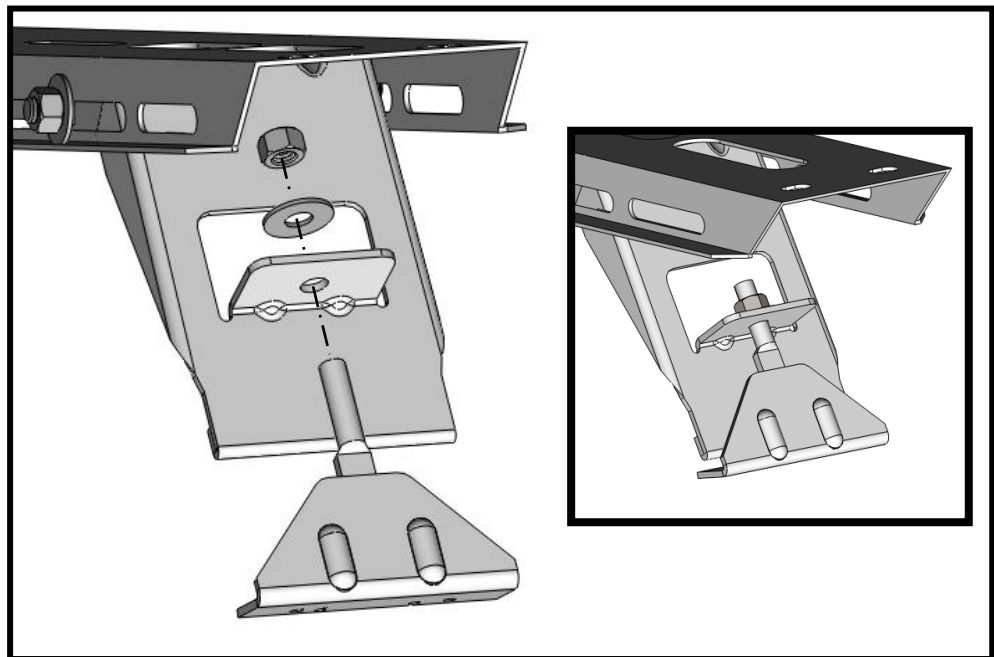
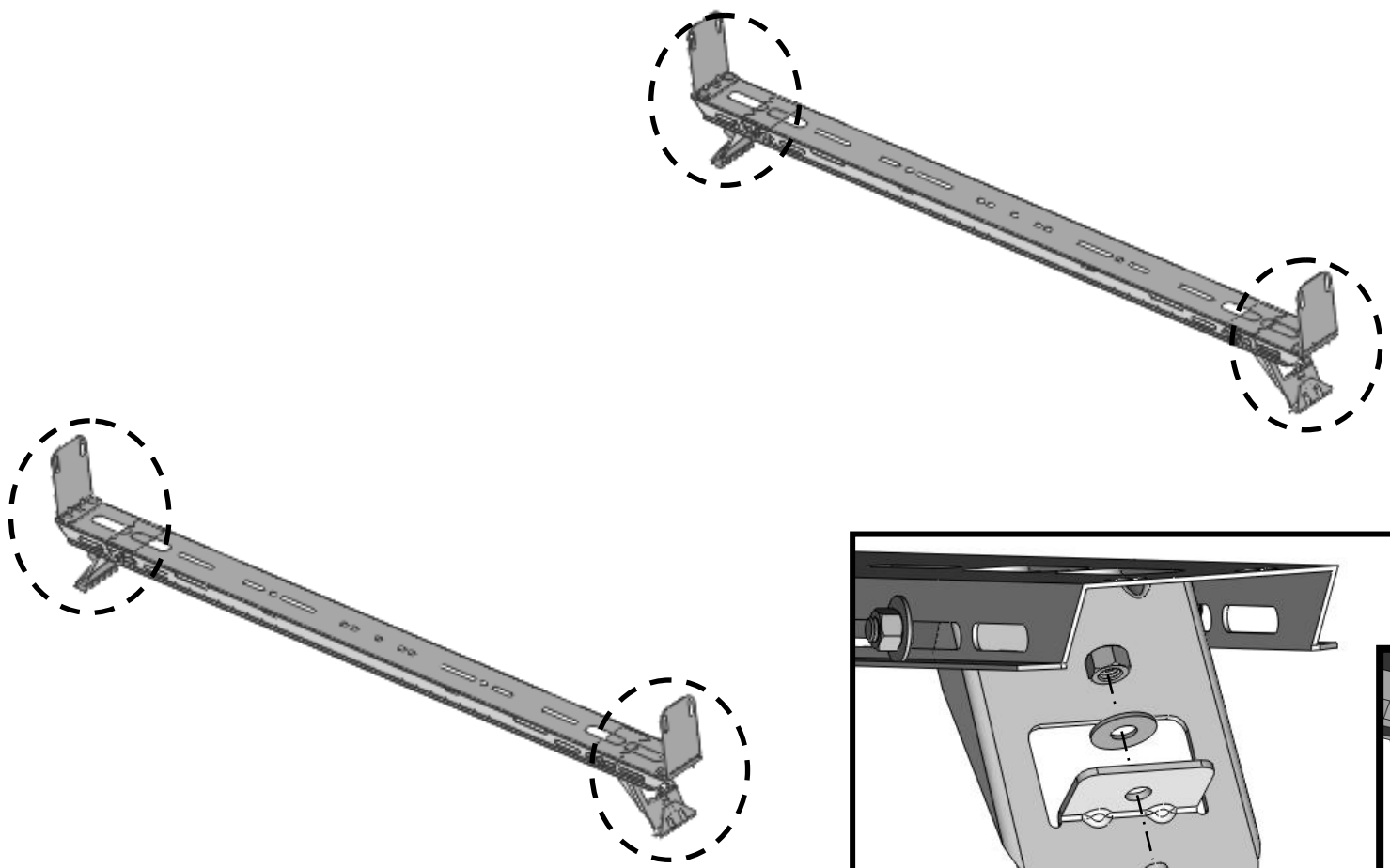
ATTACHING SIDE STOPS



Attach (2) Side Stops to each end of the
Cross Bows as shown, using:
(2) 3/8-16 x 1 Carriage Bolts
(2) 3/8 Washers
(2) 3/8 E-Stop Nuts
((PER STOP))

TORQUE SETTING:
Size - 3/8 = 22-30 Ft.-Lbs.

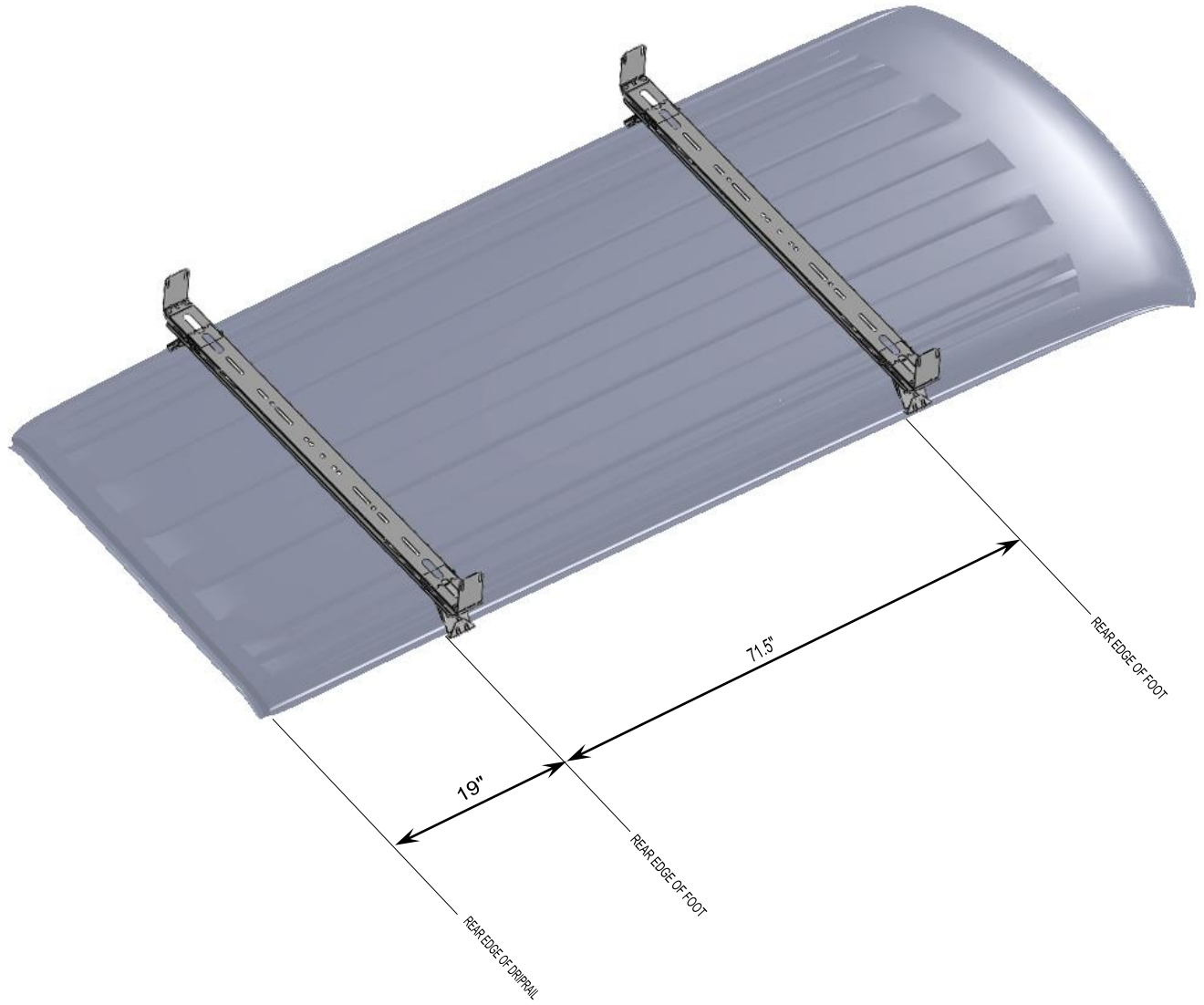
ATTACHING OUTER CLAMPS



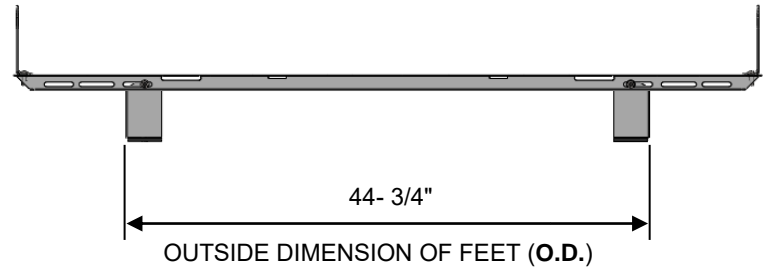
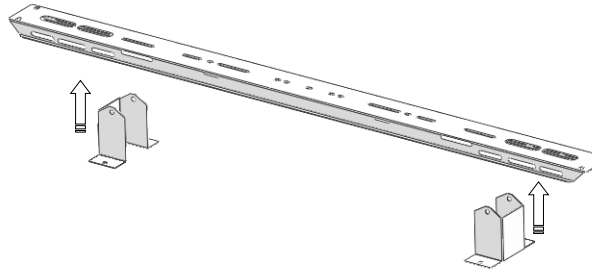
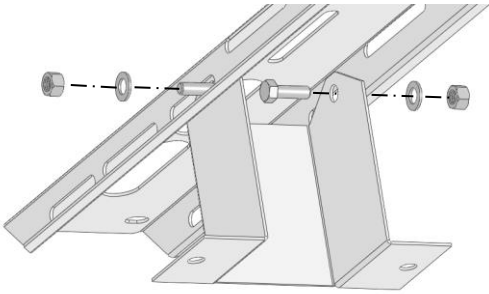
Loosely attach (4) **OUTER CLAMPS** at locations shown here using (4) 3/8 Flat Washers and (4) 3/8 E-Stop Nuts.

TORQUE SETTING:
Size - 3/8 = 22-30 Ft.-Lbs.

PLACEMENT GUIDE



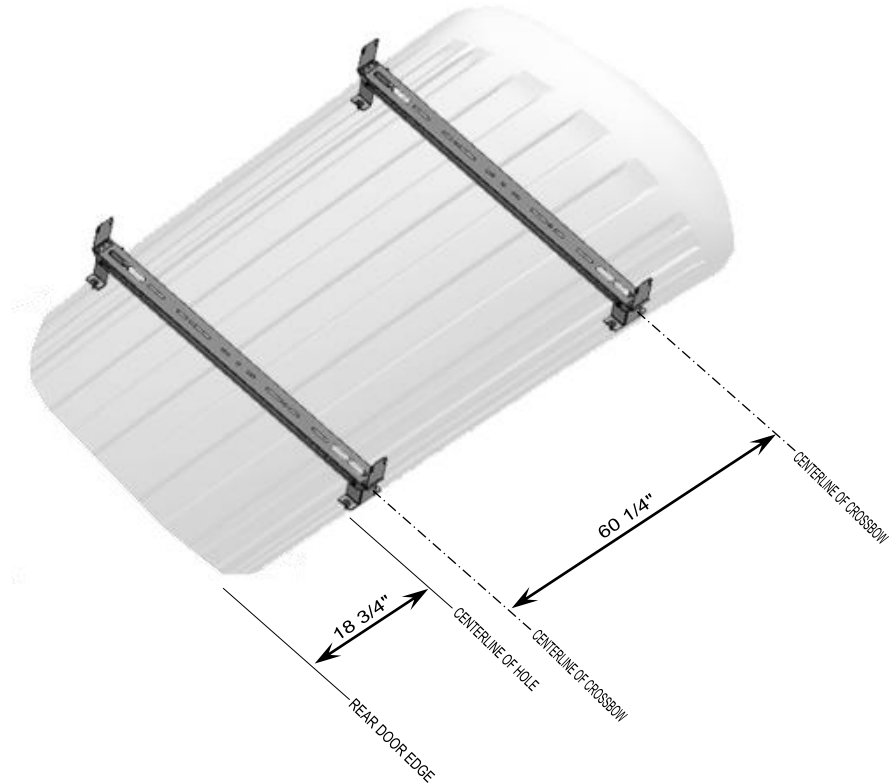
APPLICABLE TO CARAVAN INSTALLATION



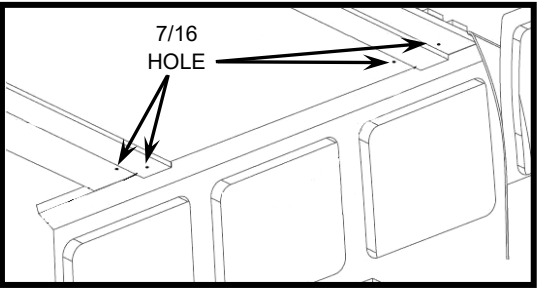
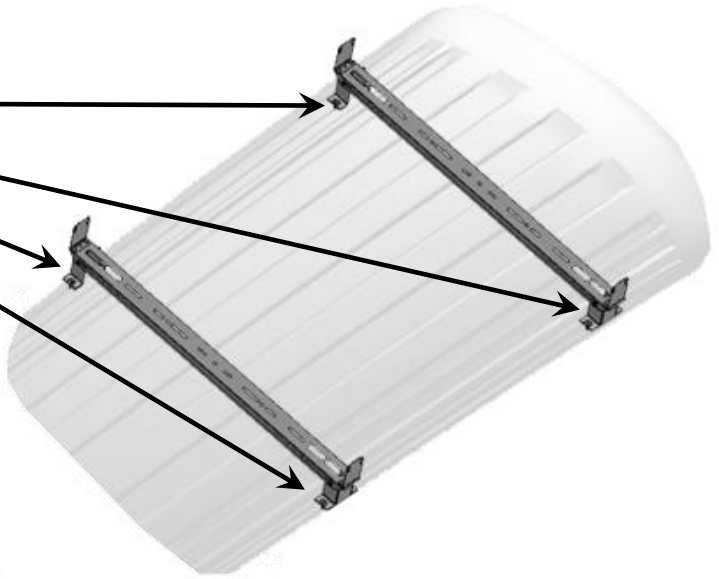
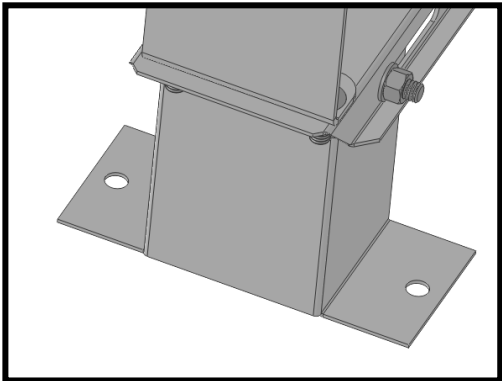
Loosely attach the (4) MOUNTING FEET to the CROSSBOWS using
(2) 3/8"-16 x 1" HWH SCREWS,
(2) 3/8" WASHERS and
(2) 3/8" E-Stop Nuts

PER MOUNTING FOOT.

DO NOT TIGHTEN YET. PLACE THE LADDER RACK ASSEMBLY ON TOP OF THE VEHICLE. ADJUST THE MOUNTING FEET IN OR OUT WHILE CENTERING THE LADDER RACK.

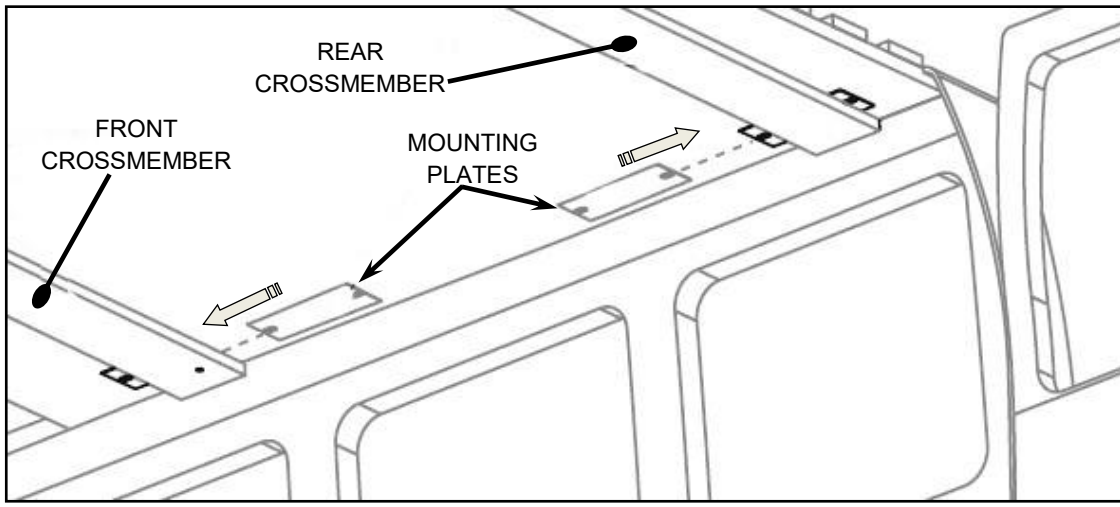


APPLICABLE TO CARAVAN INSTALLATION

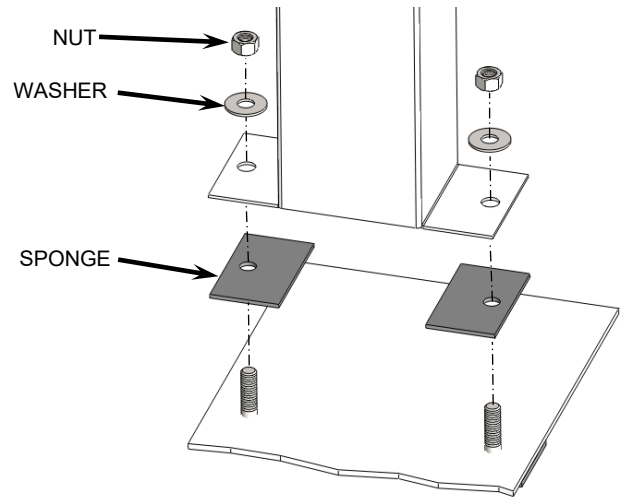
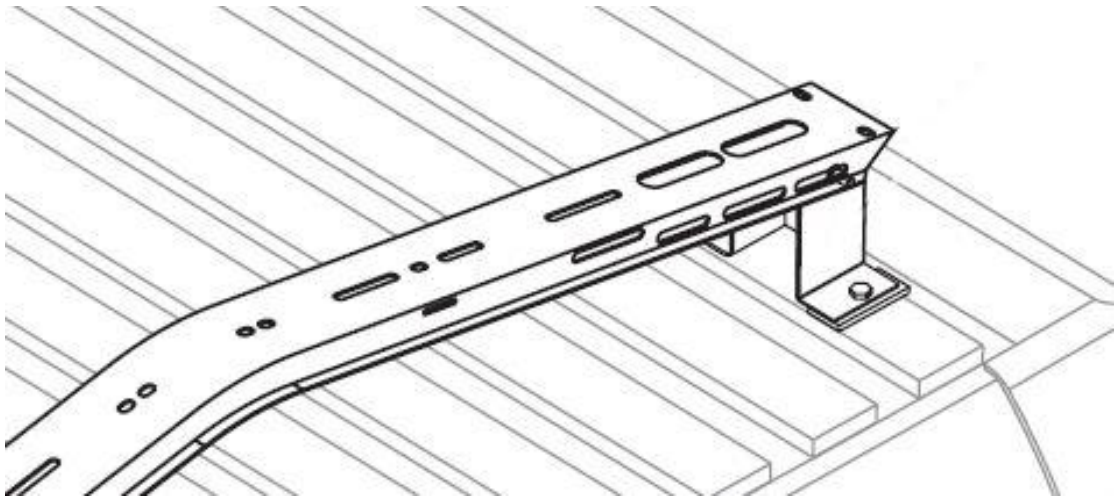


Remove the Utility Carrier to allow working space and drill eight **7/16"** diameter holes through the roof where marked. Your drilled holes should straddle the roof crossmember at the rear. At the front, one hole will fall to the front of the roof crossmember and the other hole will go through the roof crossmember.

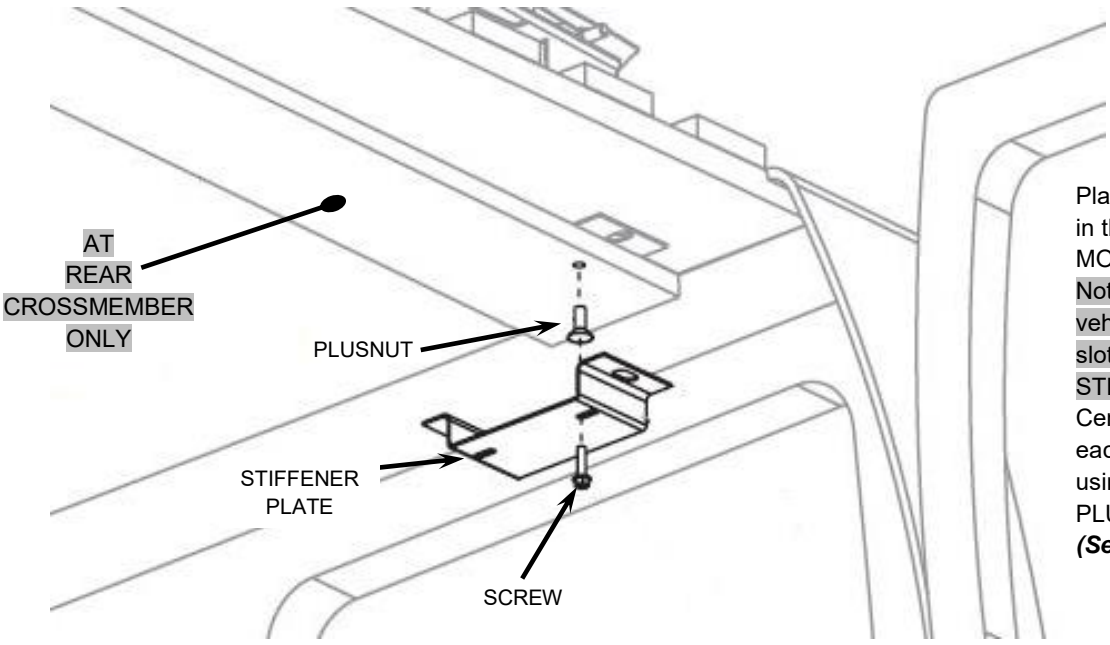
Remove the Utility Carrier to allow working space and drill eight **7/16"** diameter holes through the roof where marked. Your drilled holes should straddle the roof crossmember at the rear. At the front, one hole will fall to the front of the roof crossmember and the other hole will go through the roof crossmember.



APPLICABLE TO CARAVAN INSTALLATION

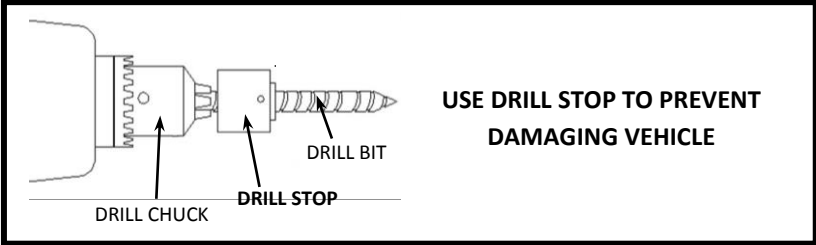


Reposition the Utility Carriers and place the (8) SPONGES between each of the MOUNTING FEET and the roof. Insert (8) 3/8" NEOPRENE WASHERS and (8) 3/8" x 1-1/2" SCREWS through each of the holes in the MOUNTING FEET from the top.



Place the (2) STIFFENER PLATES over the rear crossmember so that the holes in the STIFFENER PLATE line up with the holes in the MOUNTING PLATES. **Do not attach to the MOUNTING PLATE yet.**
Note: The slots in the STIFFENER PLATES should be offset to the center of the vehicle. Mark through the rearmost slot in each STIFFENER PLATE onto the crossmember. Remove the STIFFENER PLATE to allow for drilling.
 Center punch the marks and drill a 3/8" diameter hole into the crossmember on each side. Install (2) PLUSNUTS into 3/8" pilot holes using (1) 1/4"-20 x 1" HWH SCREW. Remove SCREW after installation of PLUSNUT.
(See next page for PlusNut info)

STOP **BEFORE DRILLING** **STOP**
**CHECK ALL MOUNTING LOCATIONS TO PREVENT PENETRATING
GAS LINES, GAS TANKS, BRAKE LINES, WIRING OR ANY OTHER STRUCTURE OF VEHICLE**



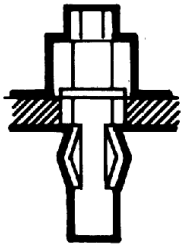
The Plusnut® is pre-bulbed for easy installation

1



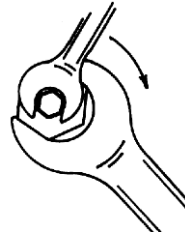
The Plusnut® is pre-assembled with hex cap and hex bolt.
Then it is inserted into a pre-drilled hole

2



As the bolt is tightened, the Plusnut® upsets
and provides outstanding
blind fastening holding power

3



C-500 tool tightens bolt thru hex head cap into Plusnut® A
ratchet, open-end or closed –end wrench can be used.

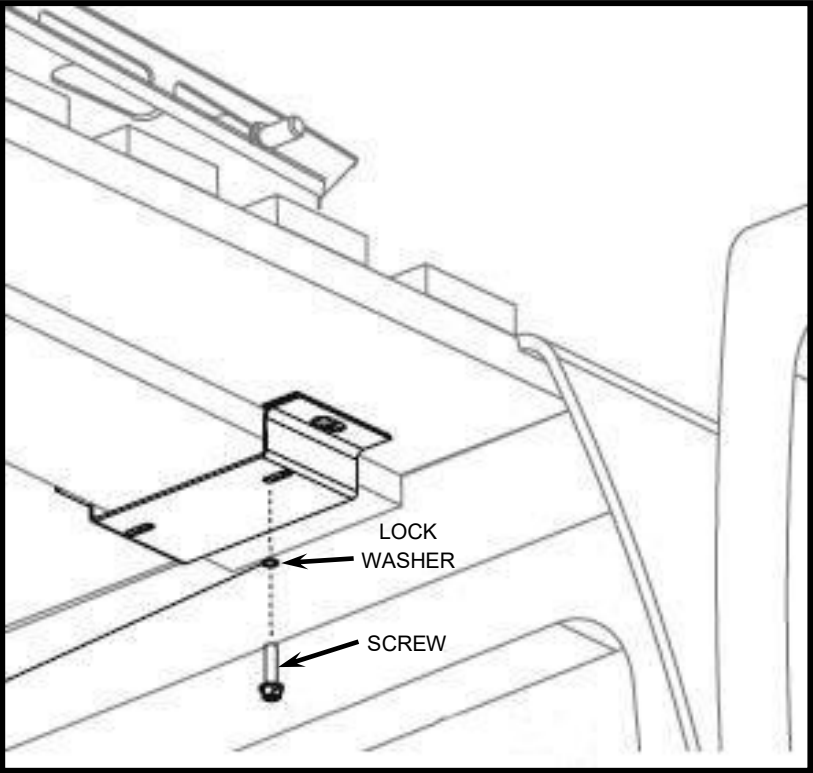
4



Fully upset Plusnut® provides
a reliable nut plate for fastening.

5

APPLICABLE TO CARAVAN INSTALLATION



Replace the STIFFENER PLATES over the MOUNTING PLATES and secure with
(2) 1/4" SPLIT LOCK WASHER and
(2) 1/4"-20 X 1" HWH SCREW

WASHER
← NUT

Place (8) 3/8" WASHERS and (8) 3/8" E-Stop Nuts on all
3/8" x 1-1/2" SCREWS
and tighten to a recommended torque of 30ft-lbs.
**FAILURE TO PERFORM THIS STEP
COULD RESULT IN VEHICLE DAMAGE.**

