

INSTALLATION GUIDE



1505-NL Cargo Rack

Nissan NV 140" Wheelbase Low Roof (Aluminum)



QUICK START GUIDE

Phase 1 - Assembly

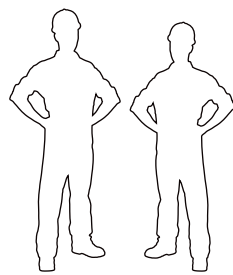
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Phase 2 - Installation

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REQUIRED ITEMS

NOTE: Use Sawhorses if possible, or use the box as a flat protective surface on the ground or table.



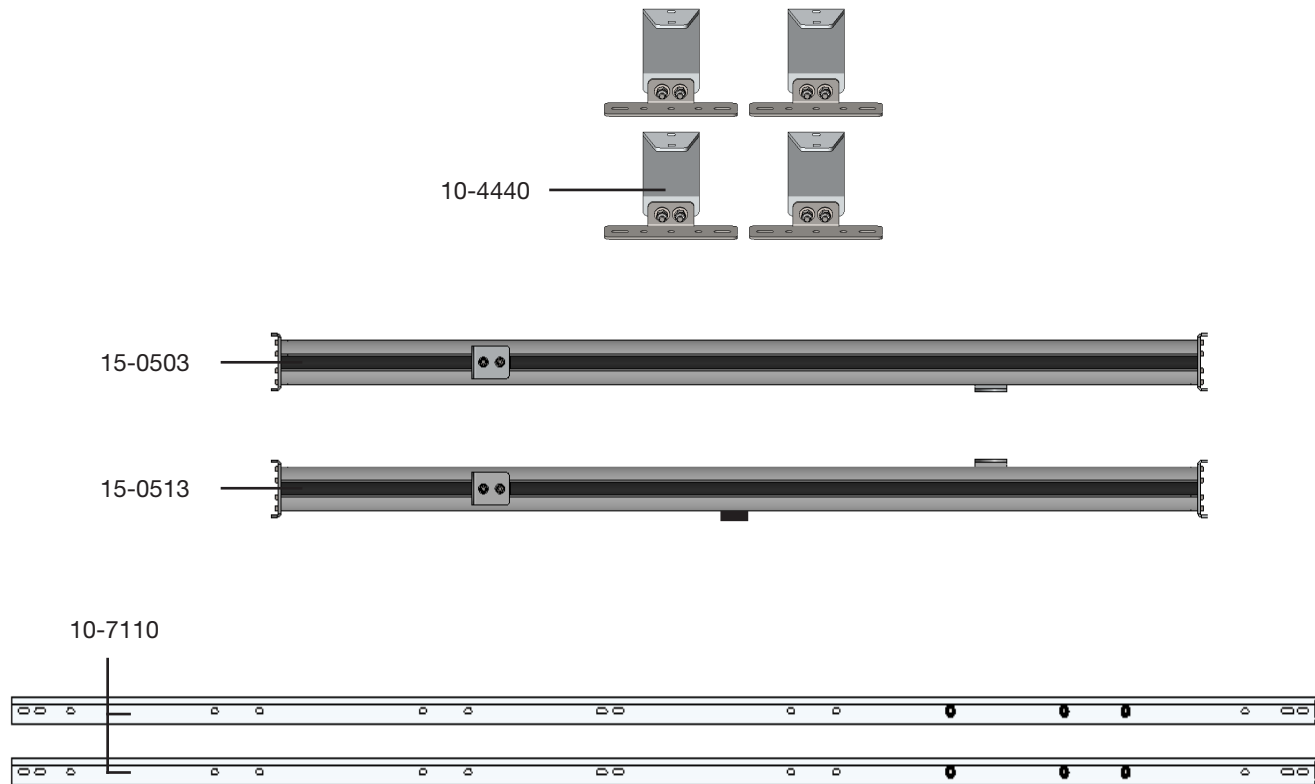
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PERSONS**

- ❑ Cordless Impact
- ❑ Ratchet
- ❑ Tape Measure
- ❑ Marker
- ❑ Ladder
- ❑ Cutter
- ❑ 1/2" Socket
- ❑ Sawhorse (Optional)
- ❑ Box
- ❑ Knife
- ❑ 1/2" Wrench

PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.



1.1.2 Verify all parts are present.


BILL OF MATERIALS

Item No.	Description	Qty.
10-4440	“C” Foot	4
10-7110	Mounting Track	2
15-0503	Front Crossbar	1
15-0513	Rear Crossbar	1
94-1008	Assembly Fastener Kit	1
96-1011	Install Fastener Kit	1

1.1.3 Fastener kits.

94-1008 Fastener Kit


8x



90-491

Carriage Bolt
5/16"-18 x 1"
SS304


8x



94-105

Hex Nut
5/16"-18
SS316wax


8x



98-117

Flat Washer
5/16", O.D 3/4"
SS18-8

8x




98-123

Lock Washer
Regular 5/16"
SS304

Fastener Assembly


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#90-491 Carriage Bolt 5/16" x 1"
#98-117 Flat Washer
#98-123 Lock Washer
#94-105 Hex Nut

96-1011 Fastener Kit


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90-203

Hex Bolt
5/16"-18 x 5/8"
SS304


8x



90-209

Hex Bolt
5/16"-18 x 1"
SS304


28x



94-150

Channel Nut
5/16"


28x



98-117

Flat Washer
5/16", OD 3/4"
SS18-8

28x




98-123

Lock Washer
5/16"
SS304

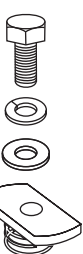
Fastener Assembly

20x



#90-203 Hex Bolt 5/16" x 5/8"
#98-123 Lock Washer
#98-117 Flat Washer
#94-150 Channel Nut

8x



#90-209 Hex Bolt 5/16" x 1"
#98-123 Lock Washer
#98-117 Flat Washer
#94-150 Channel Nut

RANGER
DESIGN

For technical support, contact us at 1-800-565-5321

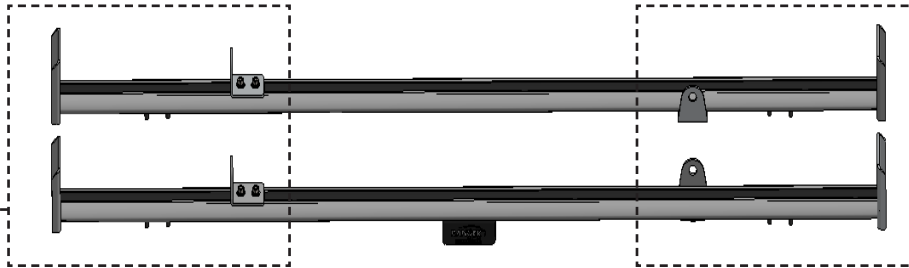
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PHASE 1 – ASSEMBLY

1.2 CARGO RACK ASSEMBLY

1.2.1 Slide carriage bolts on the bottom face of the crossbars.

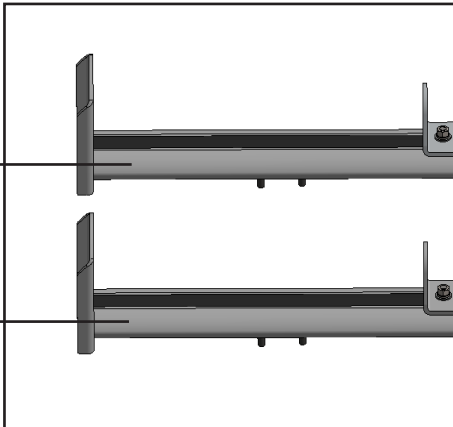
NOTE: The track plug must be removed from the underneath of the front crossbar, and reinstalled after the feet have been installed in the final position, see 2.2.4.



DRIVER SIDE

Front crossbar

- Slide 2 pcs. of 1" carriage bolts.



Rear crossbar

- Slide 2 pcs. of 1" carriage bolts.

HARDWARE USED

4x

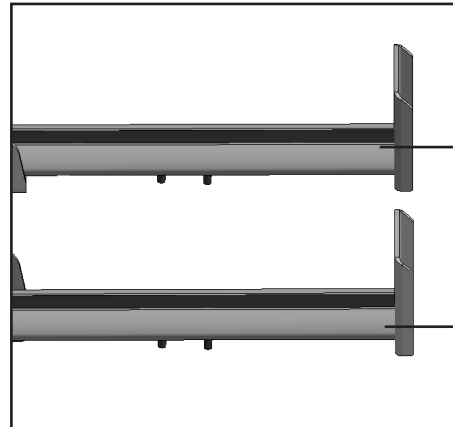


#90-491 Carriage Bolt
5/16" x 1" SS304

PASSENGER SIDE

Front crossbar

- Slide 2 pcs. of 1" carriage bolts.



Rear crossbar

- Slide 2 pcs. of 1" carriage bolts.

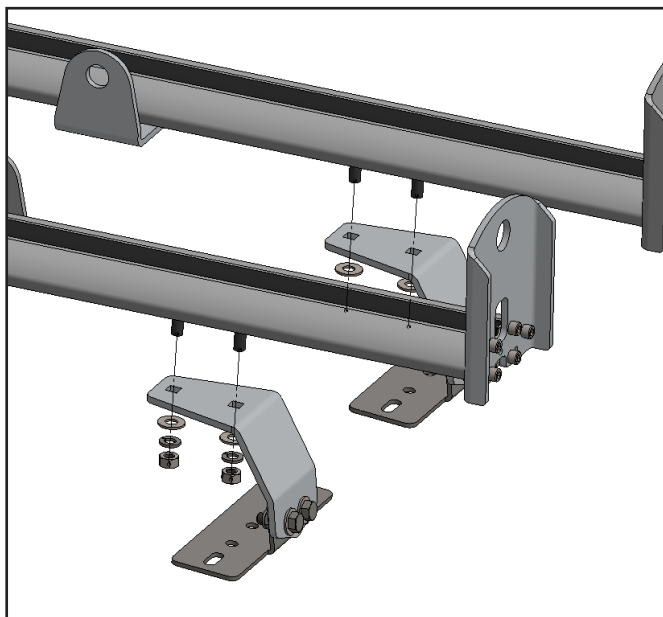
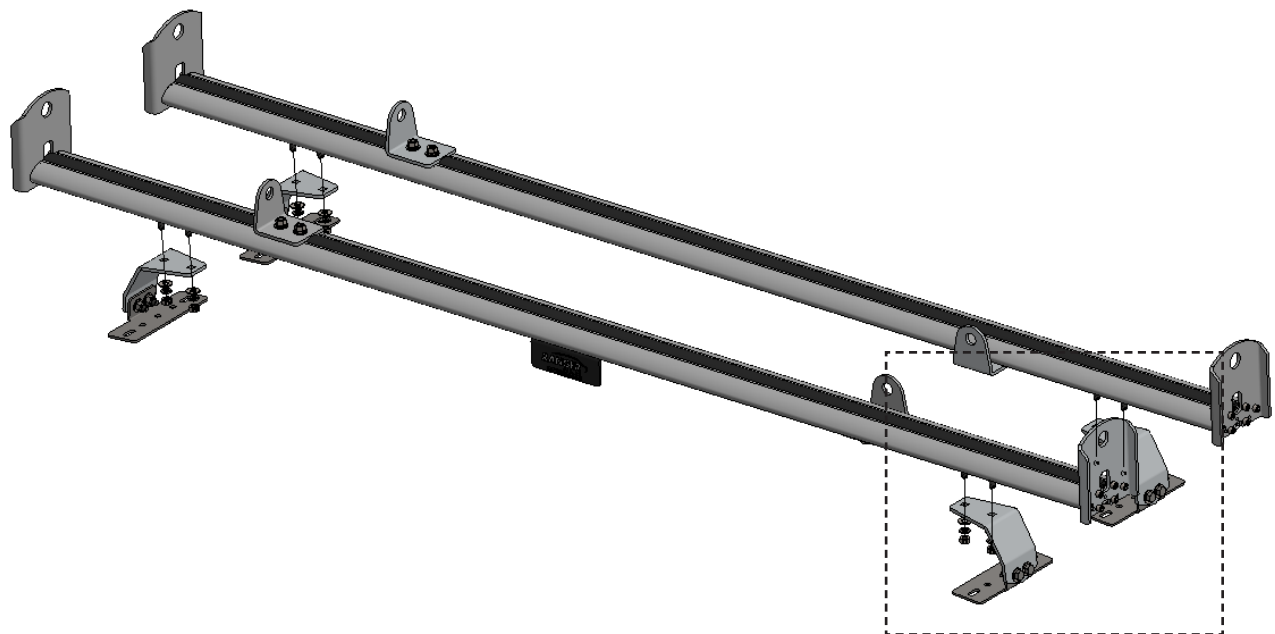
HARDWARE USED

4x



#90-491 Carriage Bolt
5/16" x 1" SS304

1.2.2 Install the feet on the Front, and Rear Crossbars.



HARDWARE USED

8x HAND-TIGHTEN THE NUTS.



Carriage bolts are already on the crossbars.



#98-117 Flat Washer



#98-123 Lock Washer

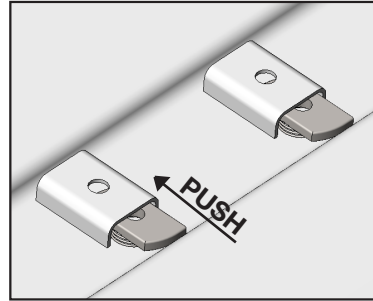
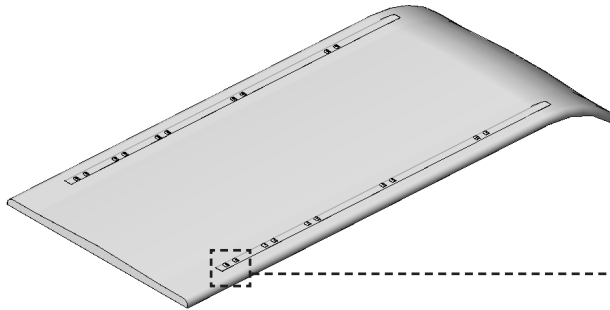


#94-105 Hex Nut

PHASE 2 – INSTALLATION

2.1 MOUNTING TRACKS INSTALLATION

2.1.1 Install the channel nuts in the roof.



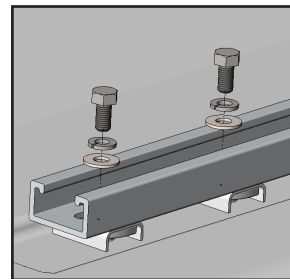
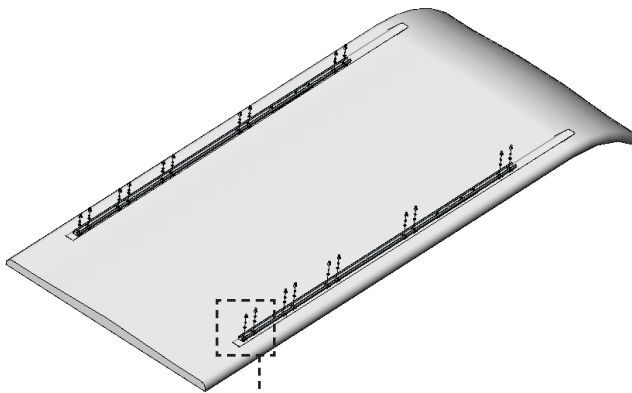
FASTENERS USED

20x



#94-150 Channel Nut

2.1.2 Install the mounting tracks onto the roof of the van by aligning the holes to the channel nuts.



TOOLS

- ☐ Cordless Impact
- ☐ 1/2" Socket

FASTENERS USED

20x



#90-203 Hex Bolt 5/16" x 5/8"



#98-123 Lock Washer



#98-117 Flat Washer



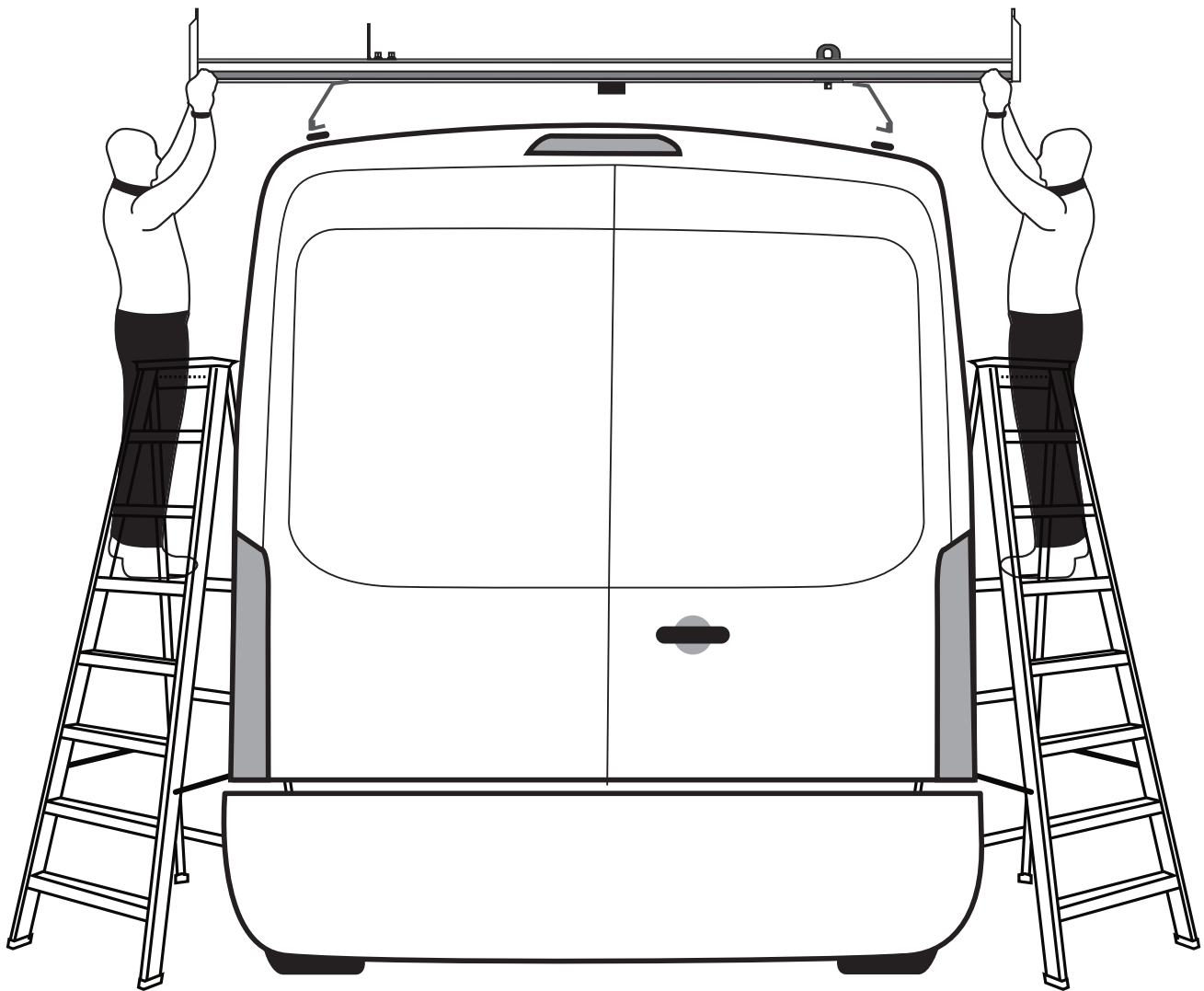
Channel Nuts are already on the van.

PHASE 2 – INSTALLATION

2.2 CARGO RACK INSTALLATION

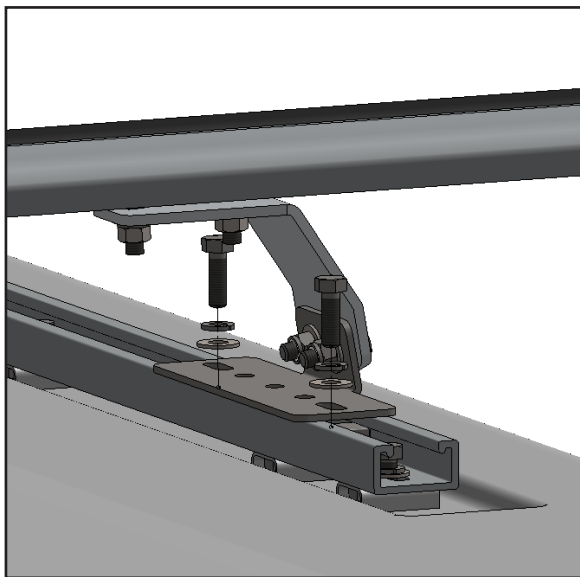
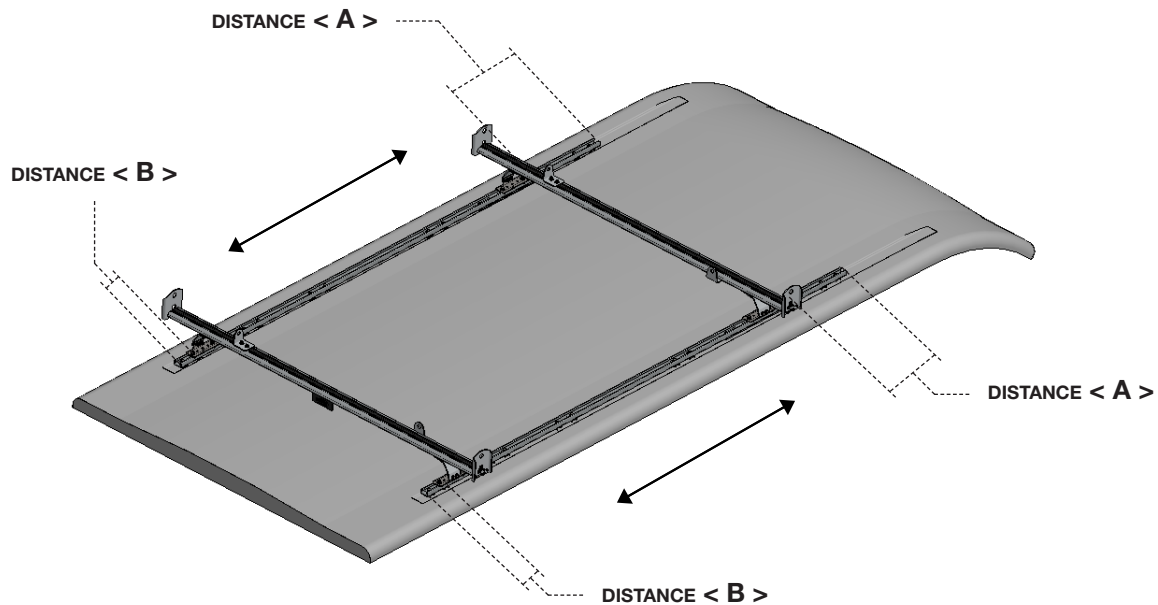
2.2.1 Position the front and rear crossbars (**minimum two persons**) on the vehicle so that the feet are on the tracks.

Cargo Rack



- 2.2.2** • Make sure the crossbars are parallel to each other at the desired distance apart, then attach all the “C” feet to the mounting tracks.
- Tighten the bolts that attach the foot plate to the ladder rack leg.

DISTANCE < FOOT TO END OF TRACK >







TOOLS

- ☐ Ratchet
- ☐ 1/2" Socket
- ☐ Tape Measure

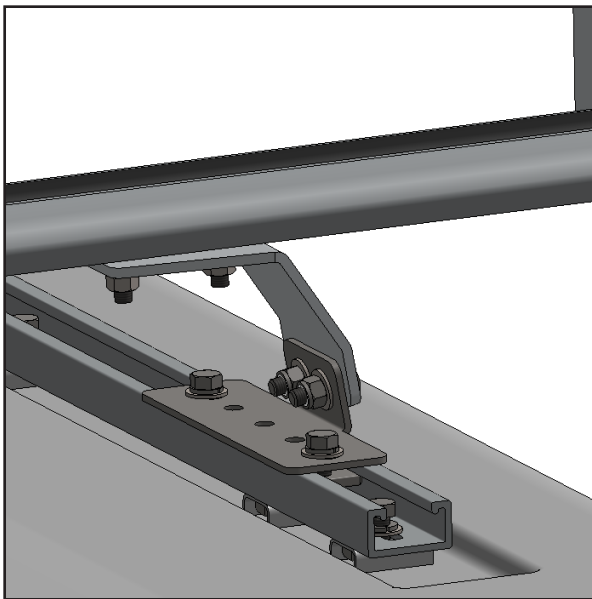
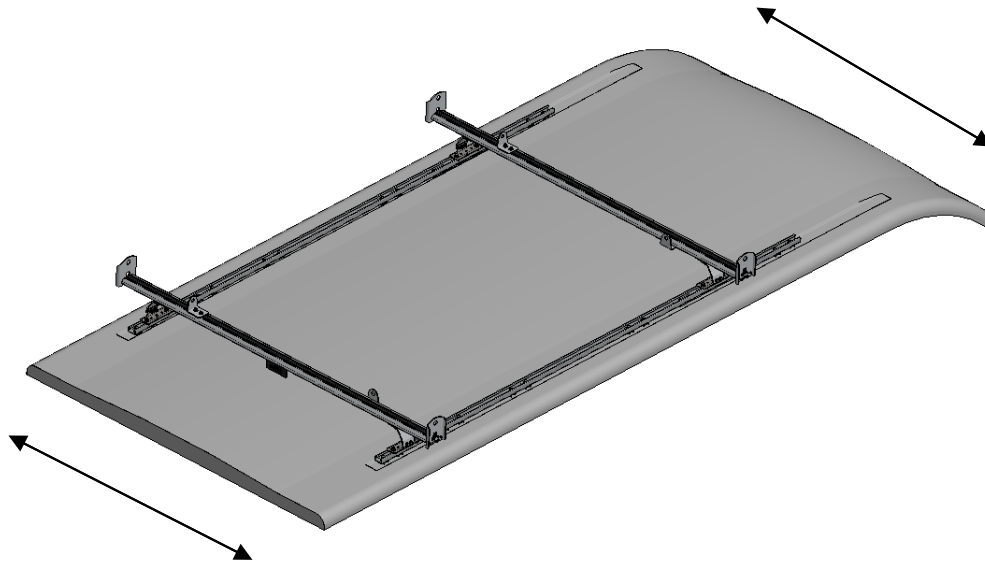
FASTENERS USED

8x

- | | |
|---|-----------------------------|
|  | #90-209 Hex Bolt 5/16" x 1" |
|  | #98-123 Lock Washer |
|  | #98-117 Flat Washer |
|  | #94-150 Channel Nut |

2.2.3 Center the crossbars on the vehicle, then tighten all the “C” feet to the crossbars.

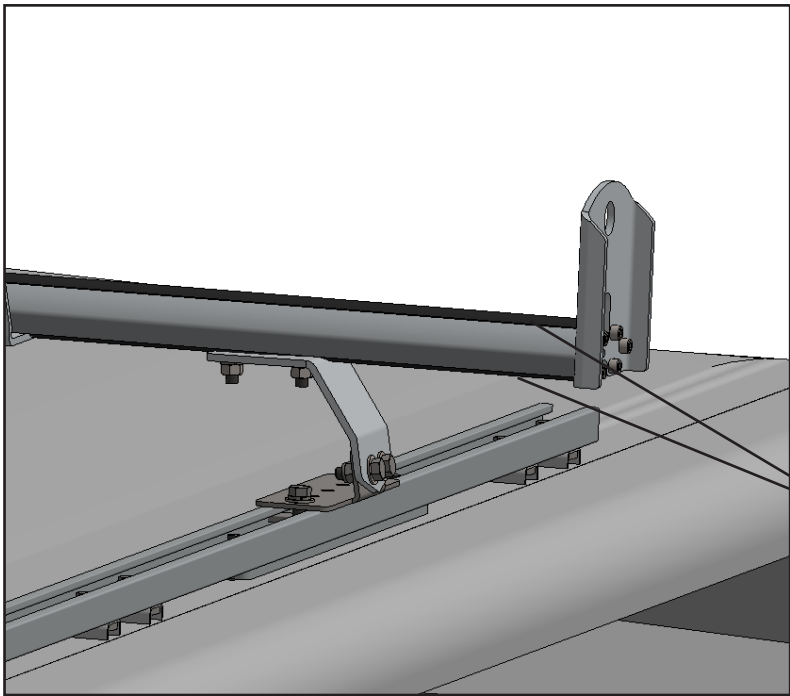
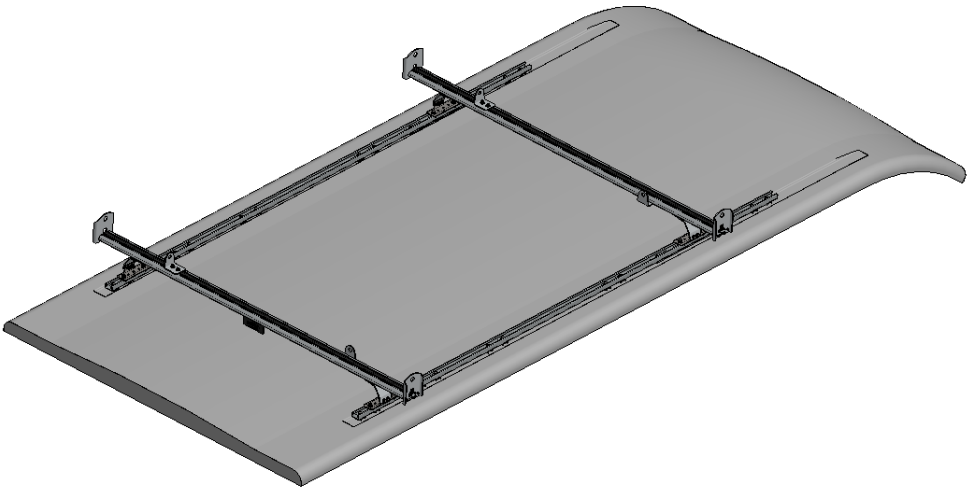
IMPORTANT: Place the cargo rack warning label on a visible area, recommended on a partition.



TOOLS

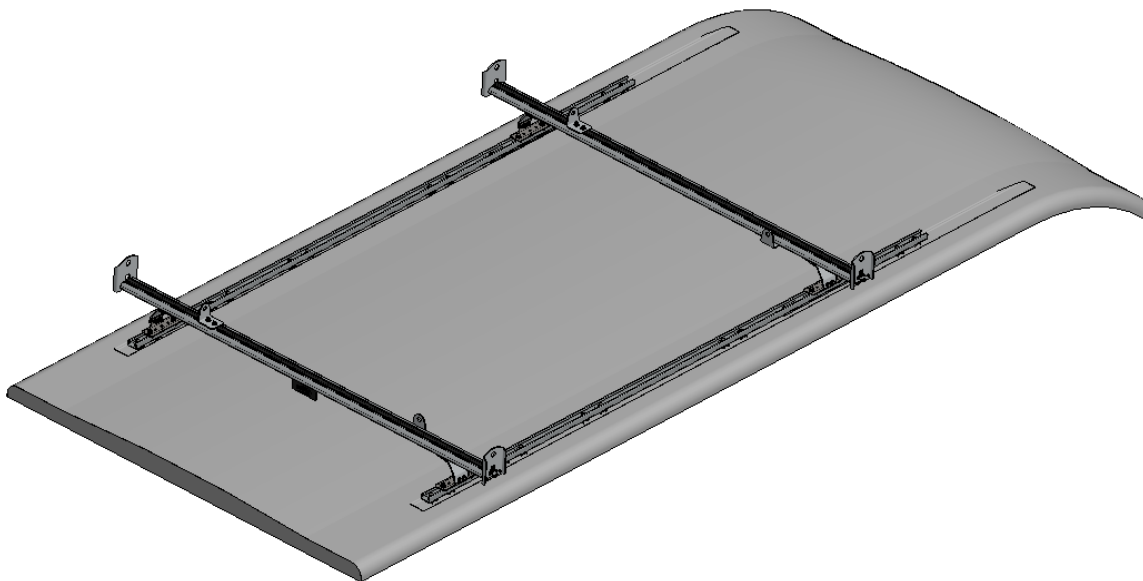
- ☐ Ratchet
- ☐ 1/2" Socket
- ☐ Tape Measure

2.2.4 After installation is complete, cut the track plug underneath the front crossbar to fill all the unused space. Failure to do so will result in excessive wind noise.



TOOLS
□ Cutter

TRACK PLUG



**“You have successfully installed your
1505-NL Cargo Rack**

Thank you for doing business with us.”

For any feedback or suggestions you may have, please contact: cs@rangerdesign.com

