

INSTALLATION GUIDE



1505-GS Cargo Rack

Express / Savana (Aluminum)



QUICK START GUIDE

Phase 1 - Assembly

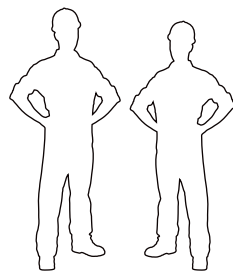
❑ 1.1 Setup.....	3 - 4
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Phase 2 - Installation

❑ 2.1 Cargo Rack Installation.....	7 - 11
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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.



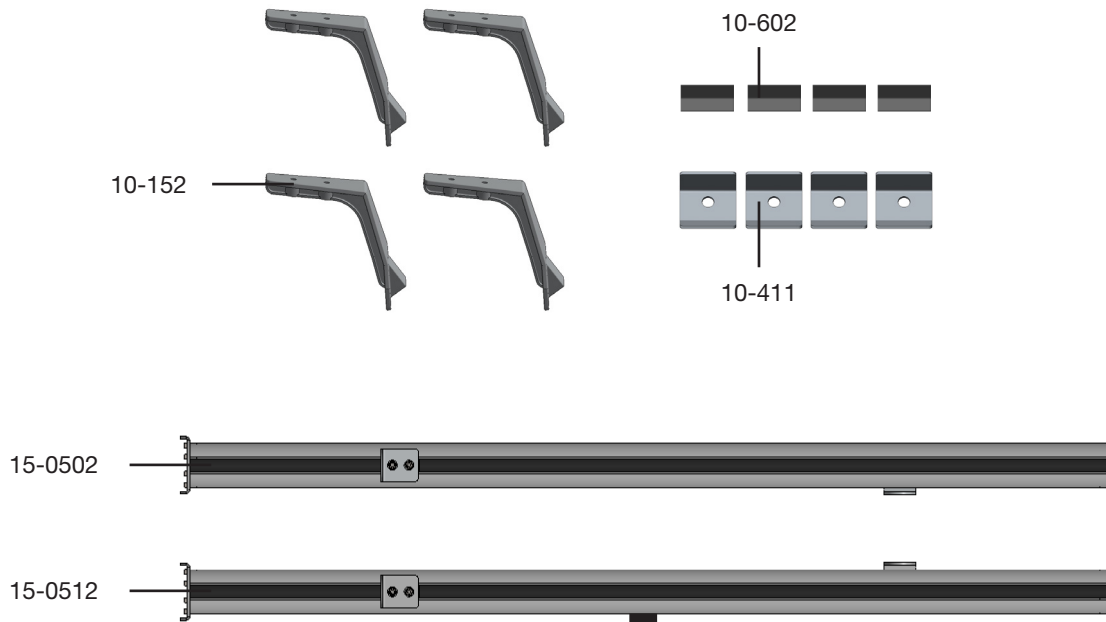
**2
PERSONS**

- ❑ Cordless Impact
- ❑ Ratchet
- ❑ Tape Measure
- ❑ Marker
- ❑ Ladder
- ❑ Cutter
- ❑ 1/2" Socket
- ❑ Sawhorse (Optional)
- ❑ Box
- ❑ Knife
- ❑ 1/2" Wrench
- ❑ 9/16" Socket

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.
10-152	“C” Foot	4
10-411	Gutter Clip	4
10-602	Insulator Pad	4
15-0502	Front Crossbar	1
15-0512	Rear Crossbar	1
94-1013	Assembly Fastener Kit	1
96-1018	Install Fastener Kit	1

1.1.3 Fastener kits.

94-1013 Fastener Kit


8x



90-499

Carriage Bolt
5/16"-18 x 1-1/2"
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

8x



#90-499 Carriage Bolt 5/16" x 1-1/2"


#98-117 Flat Washer

#98-123 Lock Washer

#94-105 Hex Nut

96-1018 Fastener Kit


4x



90-315

Hex Bolt
3/8"-16 x 1-3/4"
SS304

4x

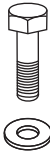


98-109

Flat Washer
3/8"
SS304

Fastener Assembly

4x



#90-315 Hex Bolt 3/8" x 1-3/4"

#98-109 Flat Washer

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.

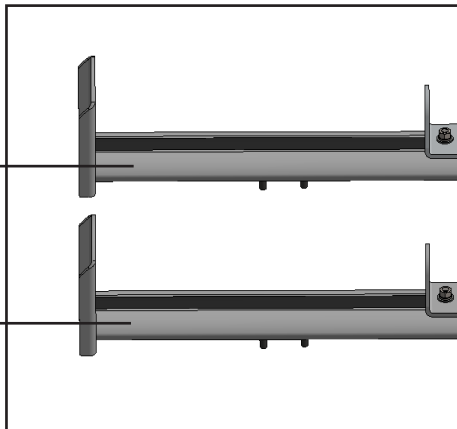
NOTE: The track plug must be removed from the underneath of the front crossbar, and reinstalled after the feet have been installed in the final position, see 2.1.5.



DRIVER SIDE

Front crossbar

- Slide 2 pcs. of 1-1/2" carriage bolts.



Rear crossbar

- Slide 2 pcs. of 1-1/2" carriage bolts.

HARDWARE USED

4x

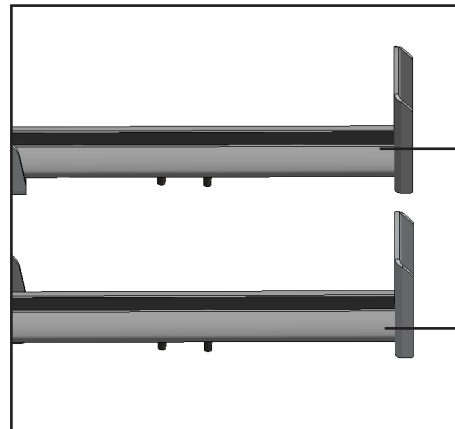


#90-499 Carriage Bolt
5/16" x 1-1/2" SS304

PASSENGER SIDE

Front crossbar

- Slide 2 pcs. of 1-1/2" carriage bolts.



Rear crossbar

- Slide 2 pcs. of 1-1/2" carriage bolts.

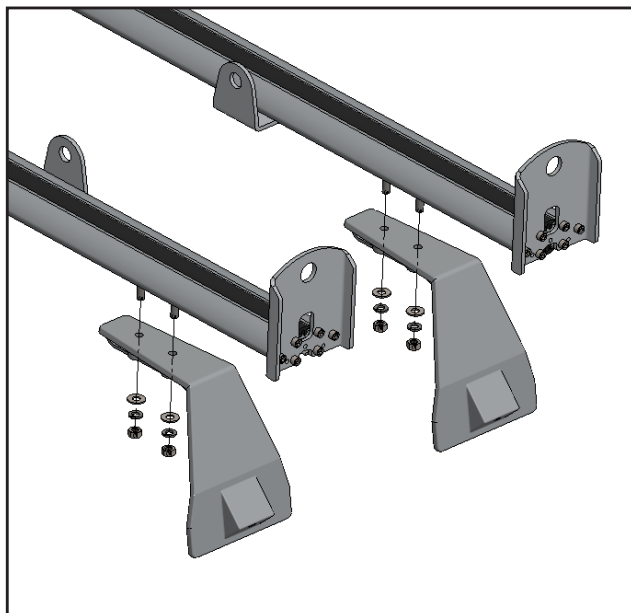
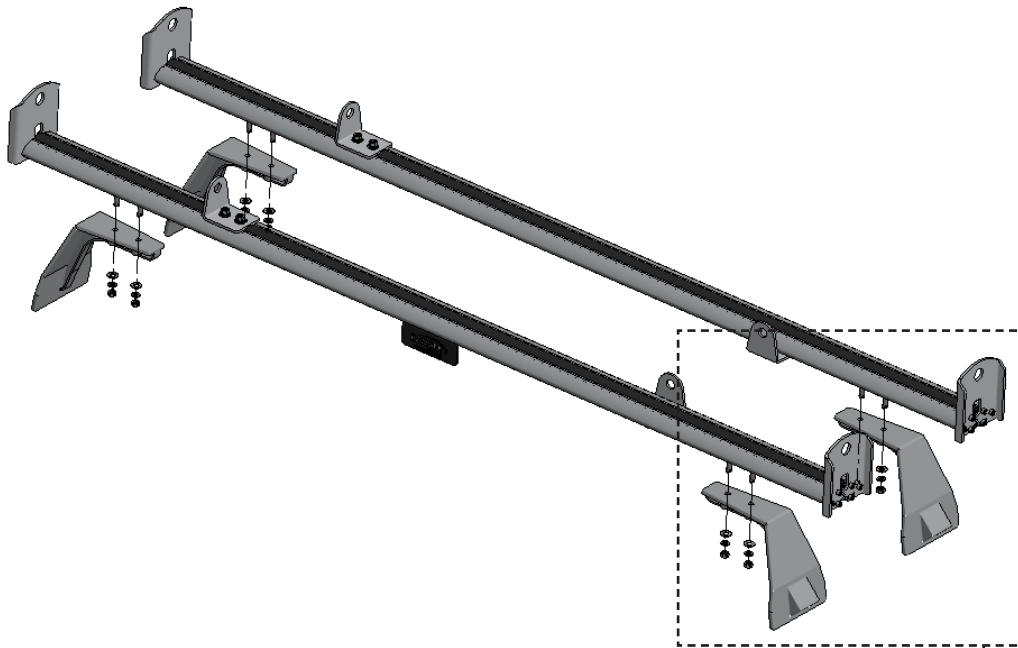
HARDWARE USED

4x



#90-499 Carriage Bolt
5/16" x 1-1/2" 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



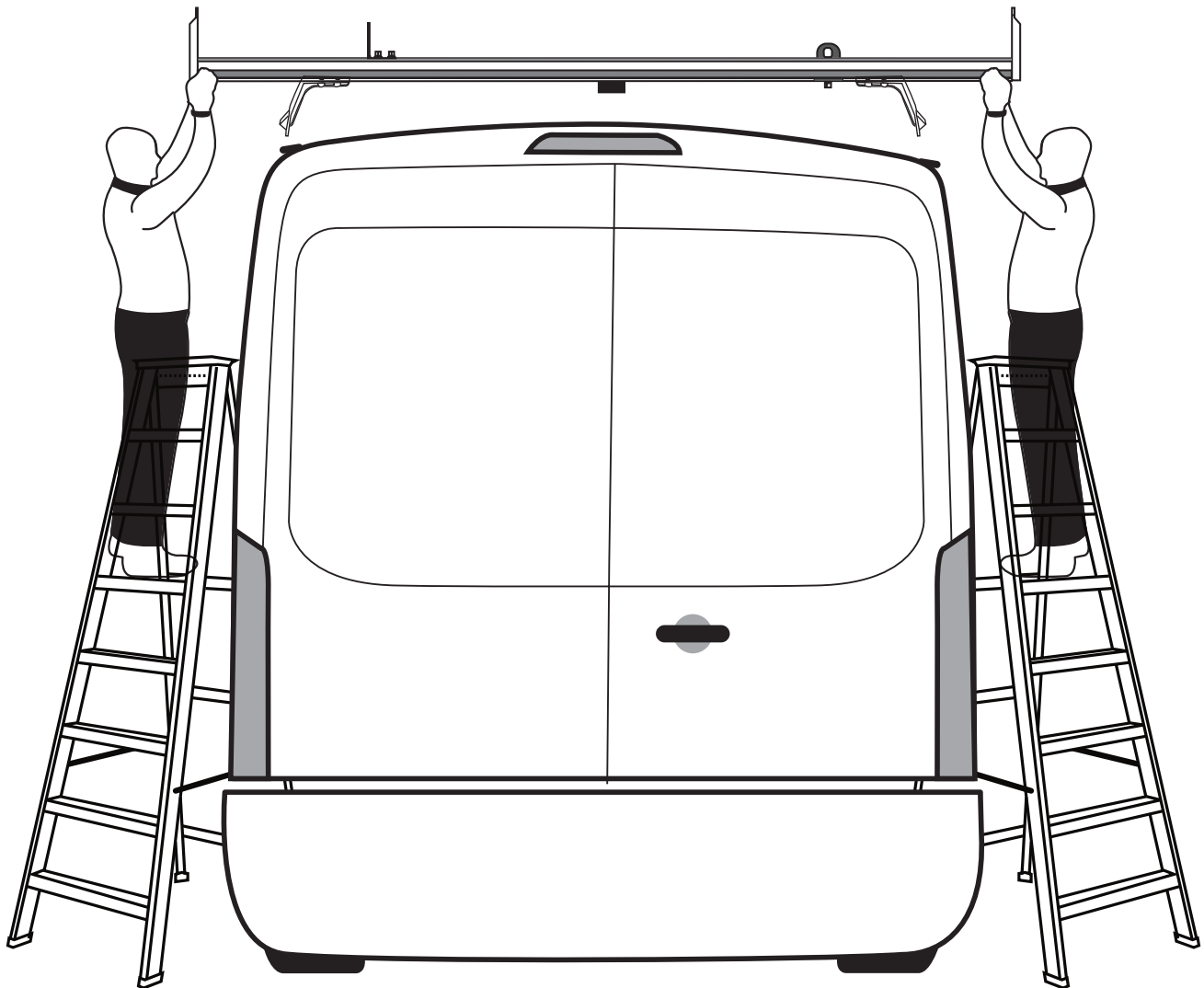
#94-105 Hex Nut

PHASE 2 – INSTALLATION

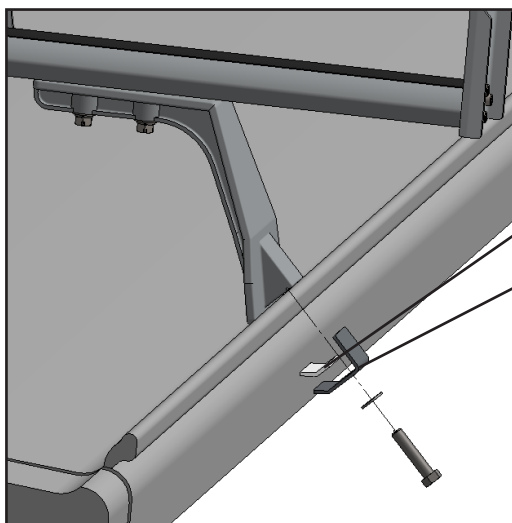
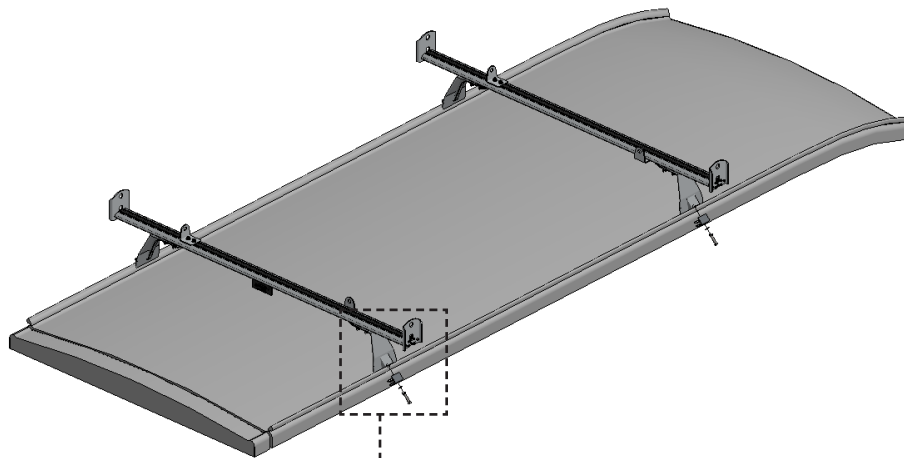
2.1 CARGO RACK INSTALLATION

2.1.1 Position the front and rear crossbars (**minimum two persons**) on the roof, so that the feet sit in the gutters.

Cargo Rack

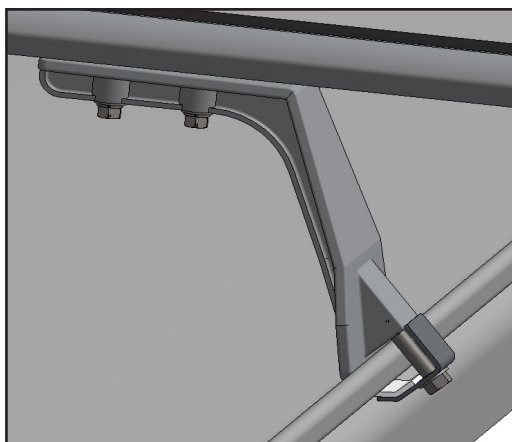


2.1.2 Clip all the feet to the roof using the gutter clips.



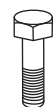
INSULATOR PAD

GUTTER CLIP



HARDWARE USED

4x HAND-TIGHTEN THE NUTS.

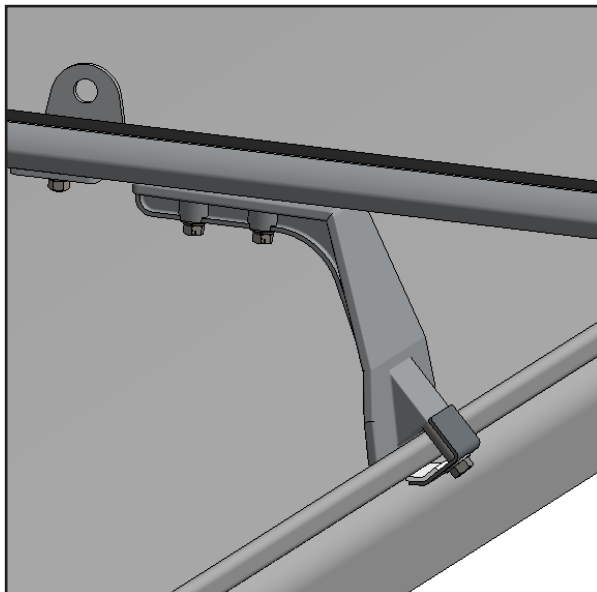
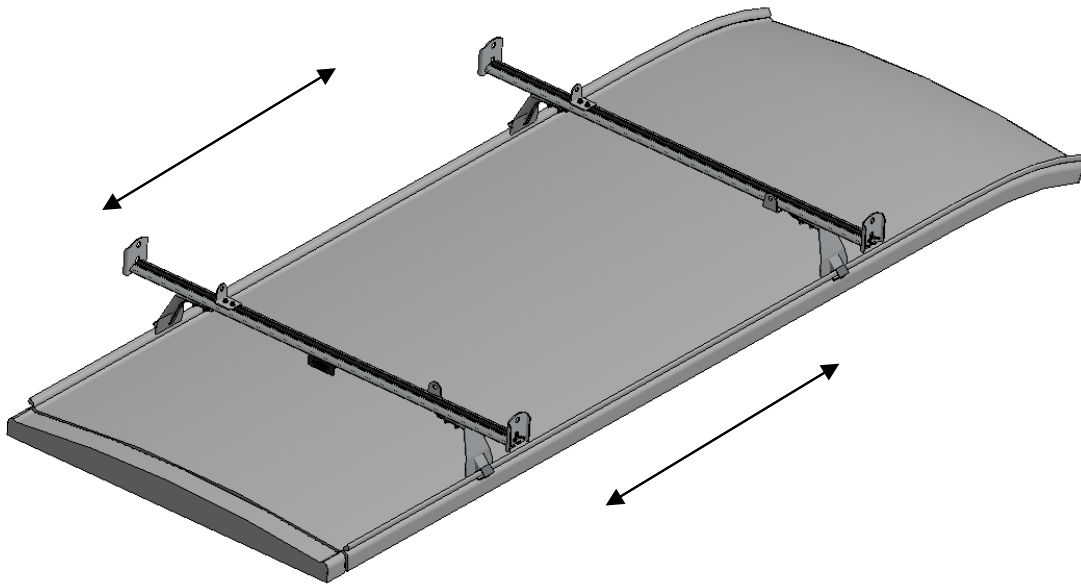


#90-315 Hex Bolt 3/8" x 1-3/4"



#98-109 Flat Washer

2.1.3 Make sure the crossbars are parallel to each other at the desired distance apart, then tighten the gutter clips bolts.

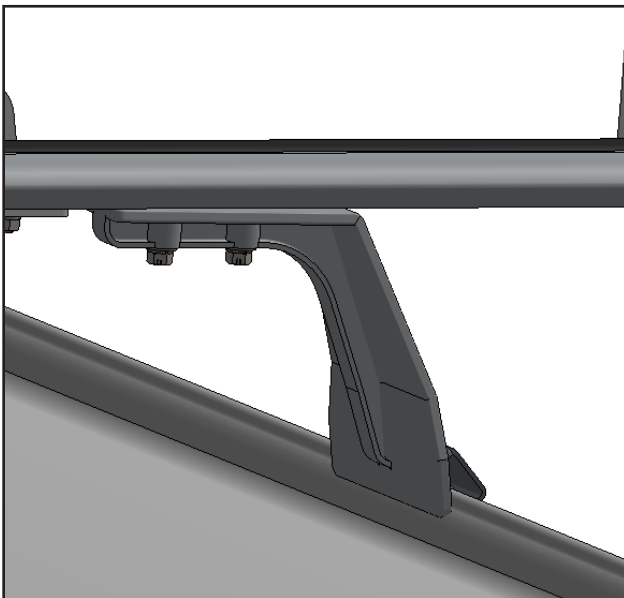
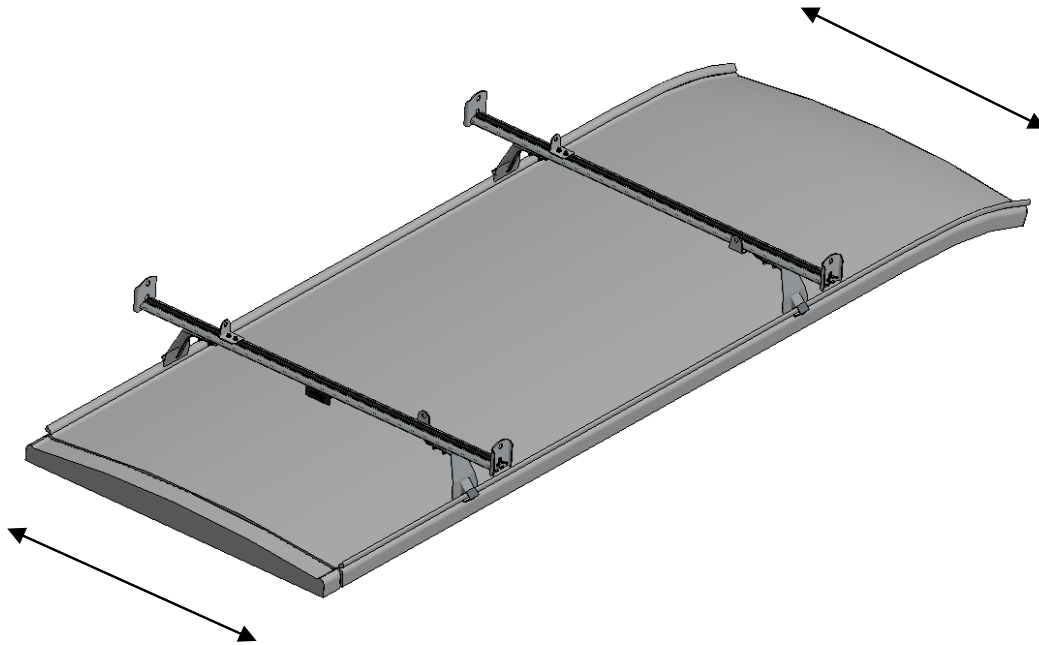


TOOLS

- ☐ Cordless Impact
- ☐ 9/16" Socket

2.1.4 Center the crossbars on the vehicle, then tighten all the feet to the crossbars.

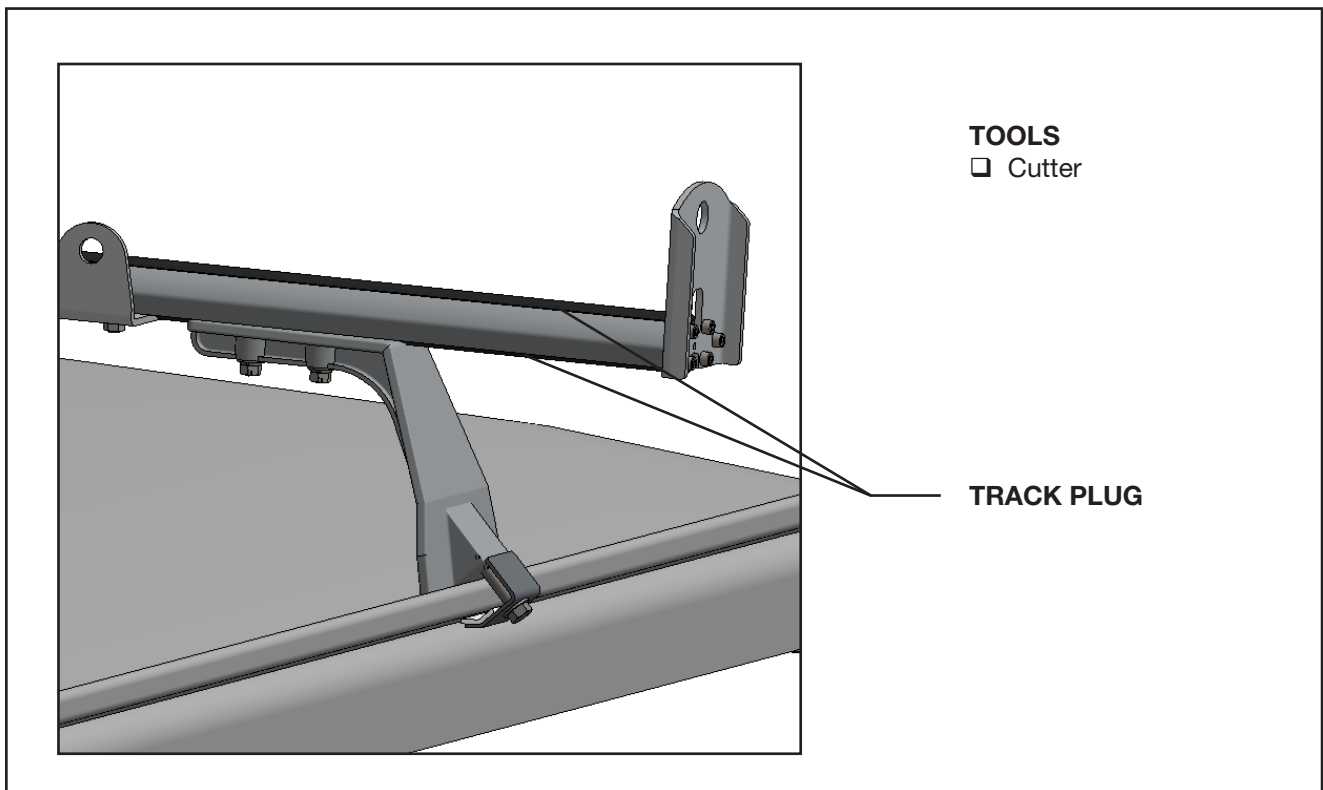
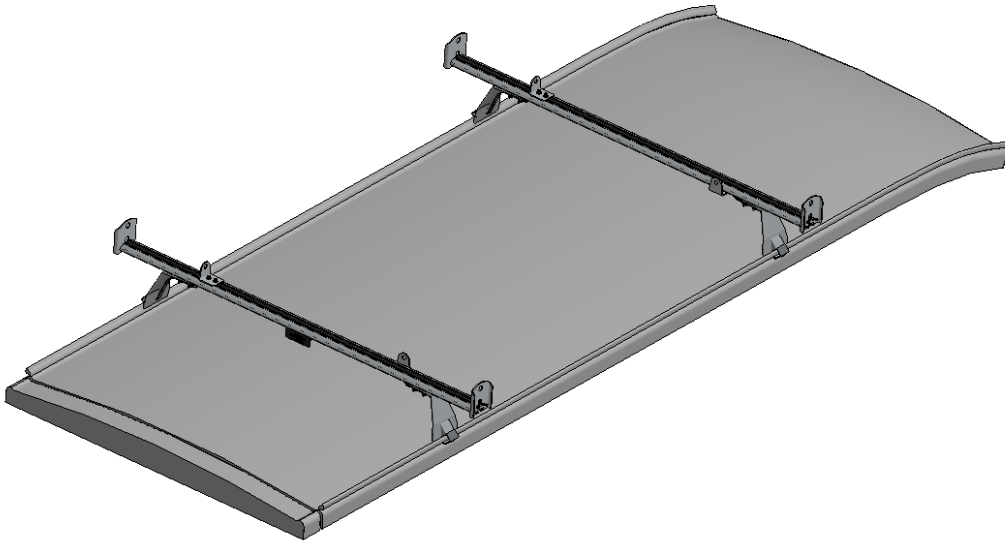
IMPORTANT: Place the cargo rack warning label on a visible area, recommended on a partition.



TOOLS

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

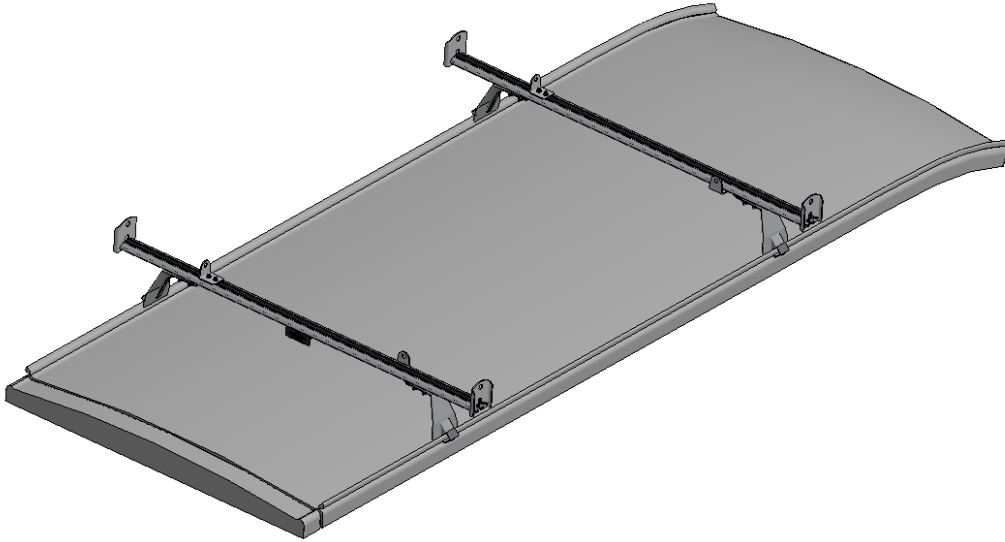
2.1.5 After installation is complete, cut the track plug underneath the front crossbar to fill all the unused space. Failure to do so will result in excessive wind noise.



TOOLS

- Cutter

TRACK PLUG



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

Thank you for doing business with us.”

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



INSTALLATION GUIDE

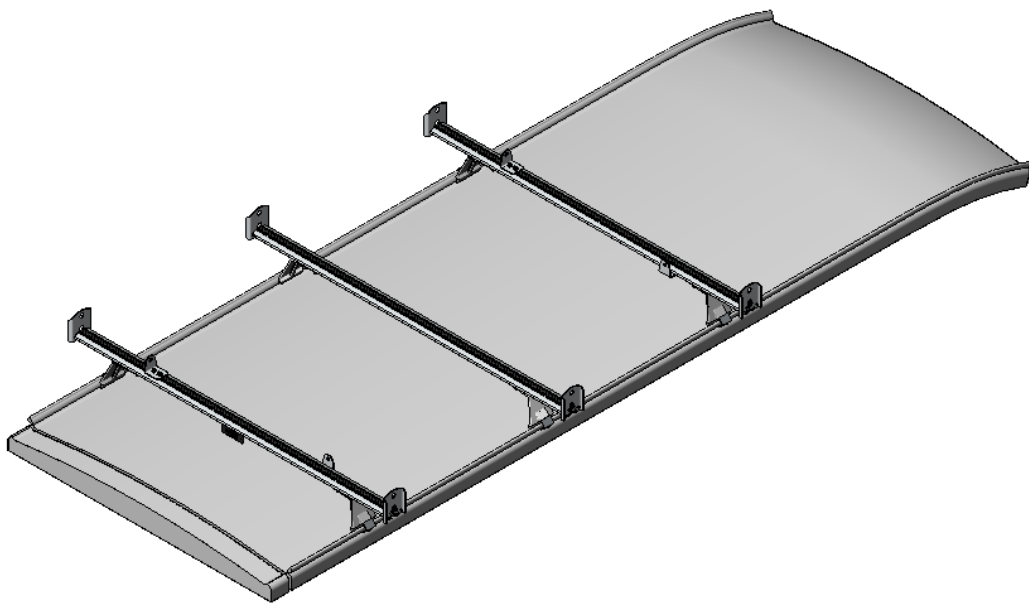


15-U0526 THIRD CROSSBAR

Express / Savana (Aluminum)



CARGO RACK WITH THIRD CROSSBOW



QUICK START GUIDE

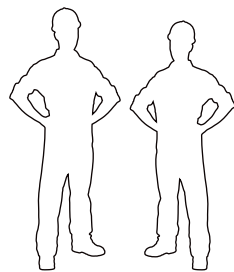
Phase 1 - Assembly

❑ 1.1 Setup.....	4 - 5
❑ 1.2 Third Crossbar Assembly.....	6 - 7

Phase 2 - Installation

❑ 2.1 Third Crossbar Installation.....	8 - 11
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REQUIRED ITEMS



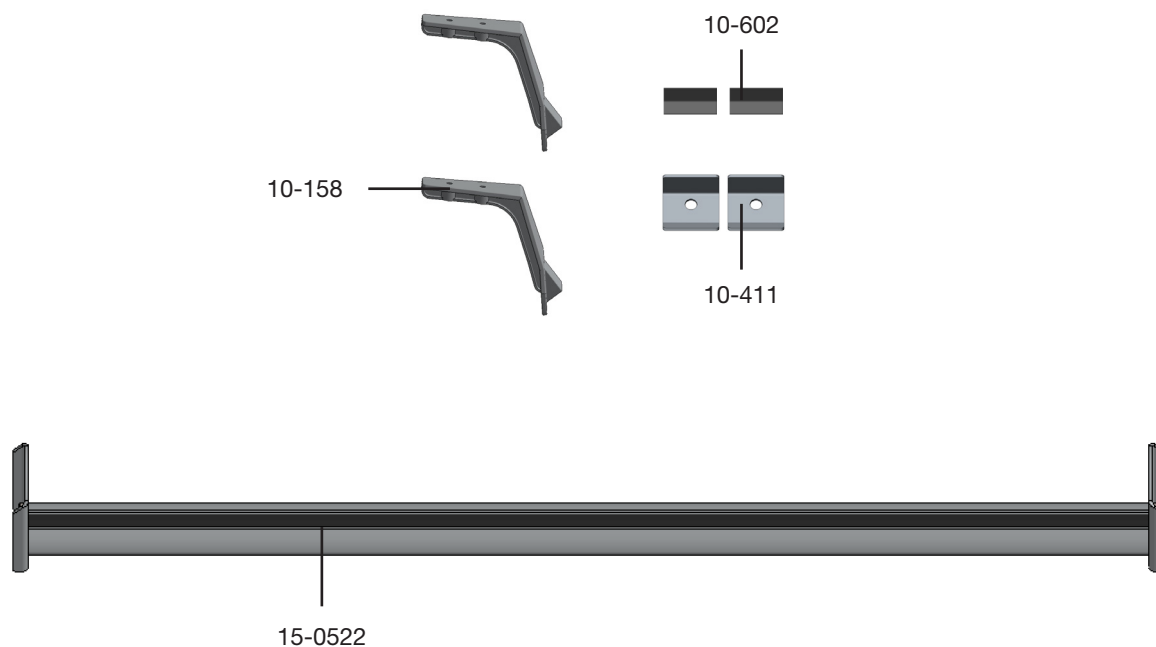
**2
PERSONS**

- ❑ Ratchet
- ❑ Tape Measure
- ❑ Marker
- ❑ Ladder
- ❑ Cutter
- ❑ 1/2" Socket
- ❑ Knife

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.
10-158	“C” Foot (Middle Foot)	2
10-411	Gutter Clip	2
10-602	Insulator Pad	2
15-0522	Third Crossbar	1
94-1017	Assembly Fastener Kit	1
96-1023	Install Fastener Kit	1

1.1.3 Fastener kits.

94-1017 Fastener Kit



Fastener Assembly

- 4x  # 90-499 Carriage Bolt
5/16"-18 x 1-1/2"
SS304
- 4x  # 94-105 Hex Nut
5/16"-18
SS316wax
- 4x  # 98-117 Flat Washer
5/16", O.D 3/4"
SS18-8
- 4x  # 98-123 Lock Washer
Regular 5/16"
SS304

4x



#90-499 Carriage Bolt 5/16" x 1-1/2"



#98-117 Flat Washer

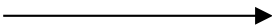


#98-123 Lock Washer





#94-105 Hex Nut


96-1023 Fastener Kit




Fastener Assembly

- 2x  # 90-315 Hex Bolt
3/8"-16 x 1-3/4"
SS304
- 2x  # 98-109 Flat Washer
3/8"
SS304

2x



#90-315 Hex Bolt 3/8" x 1-3/4"



#98-109 Flat Washer

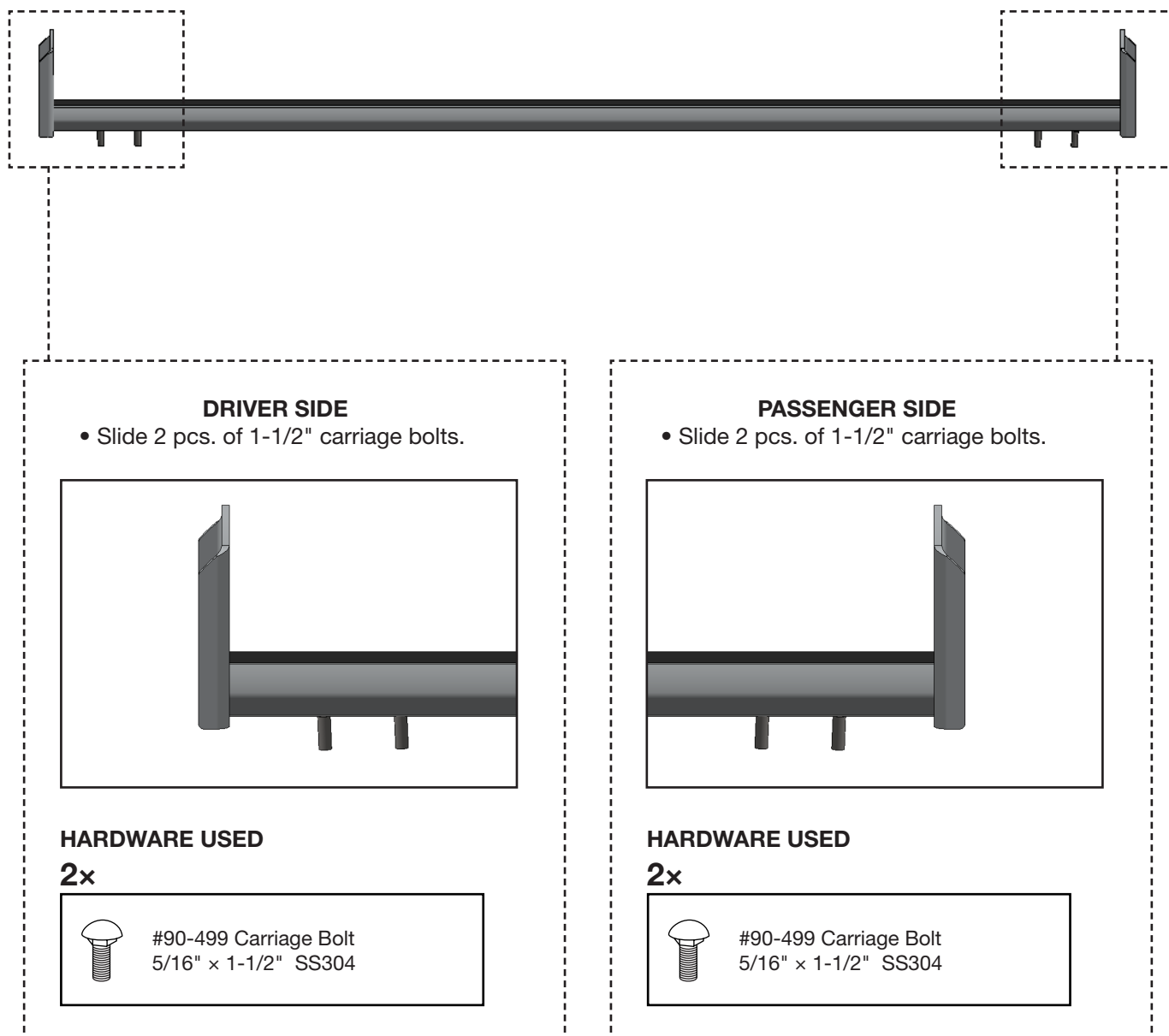
PHASE 1 – ASSEMBLY

1.2 THIRD CROSSBAR ASSEMBLY

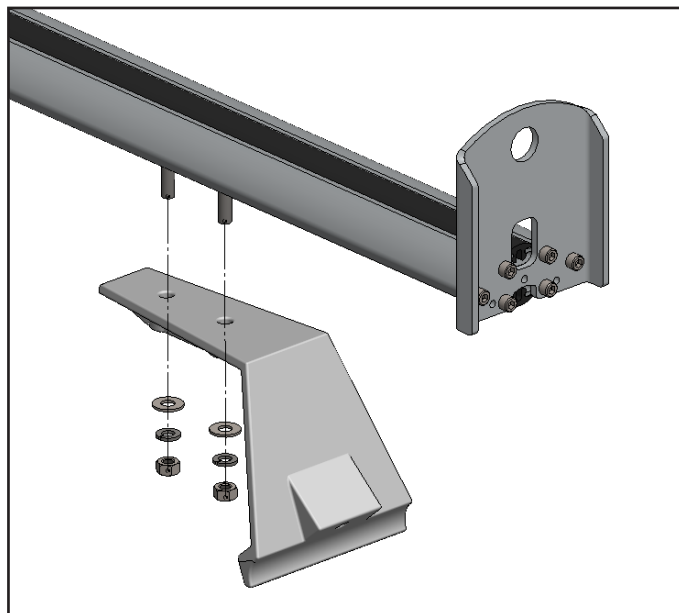
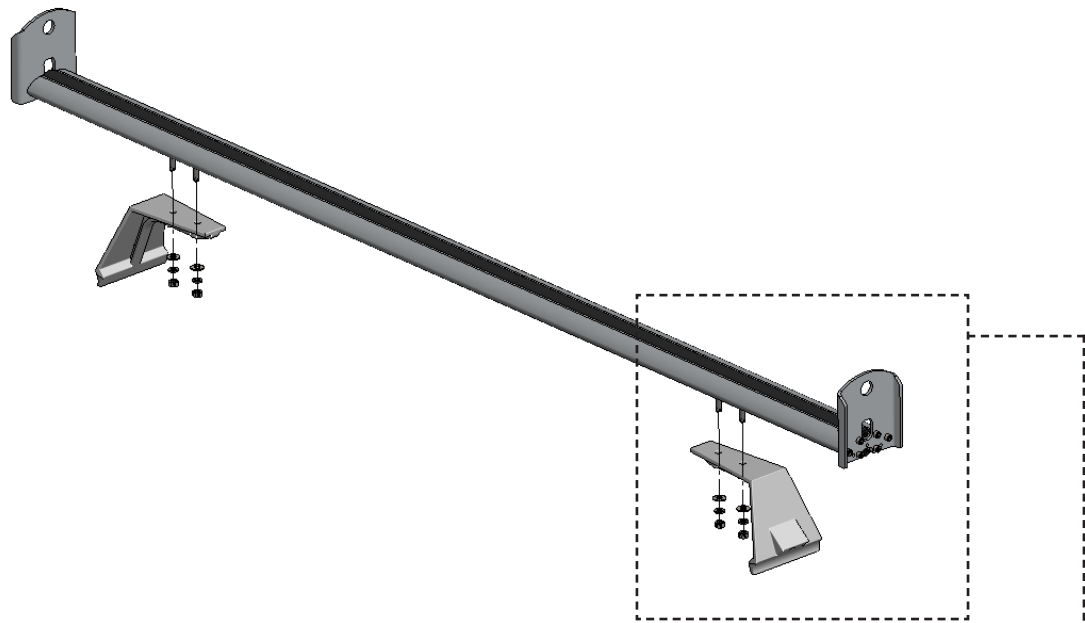
1.2.1 Slide carriage bolts on the bottom face of the crossbar.

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

TIPS: Use tape to keep the bolts from sliding off.



1.2.2 Install the feet on the crossbar.



HARDWARE USED

4x HAND-TIGHTEN THE NUTS.



Carriage bolts are already on the crossbars.



#98-117 Flat Washer



#98-123 Lock Washer



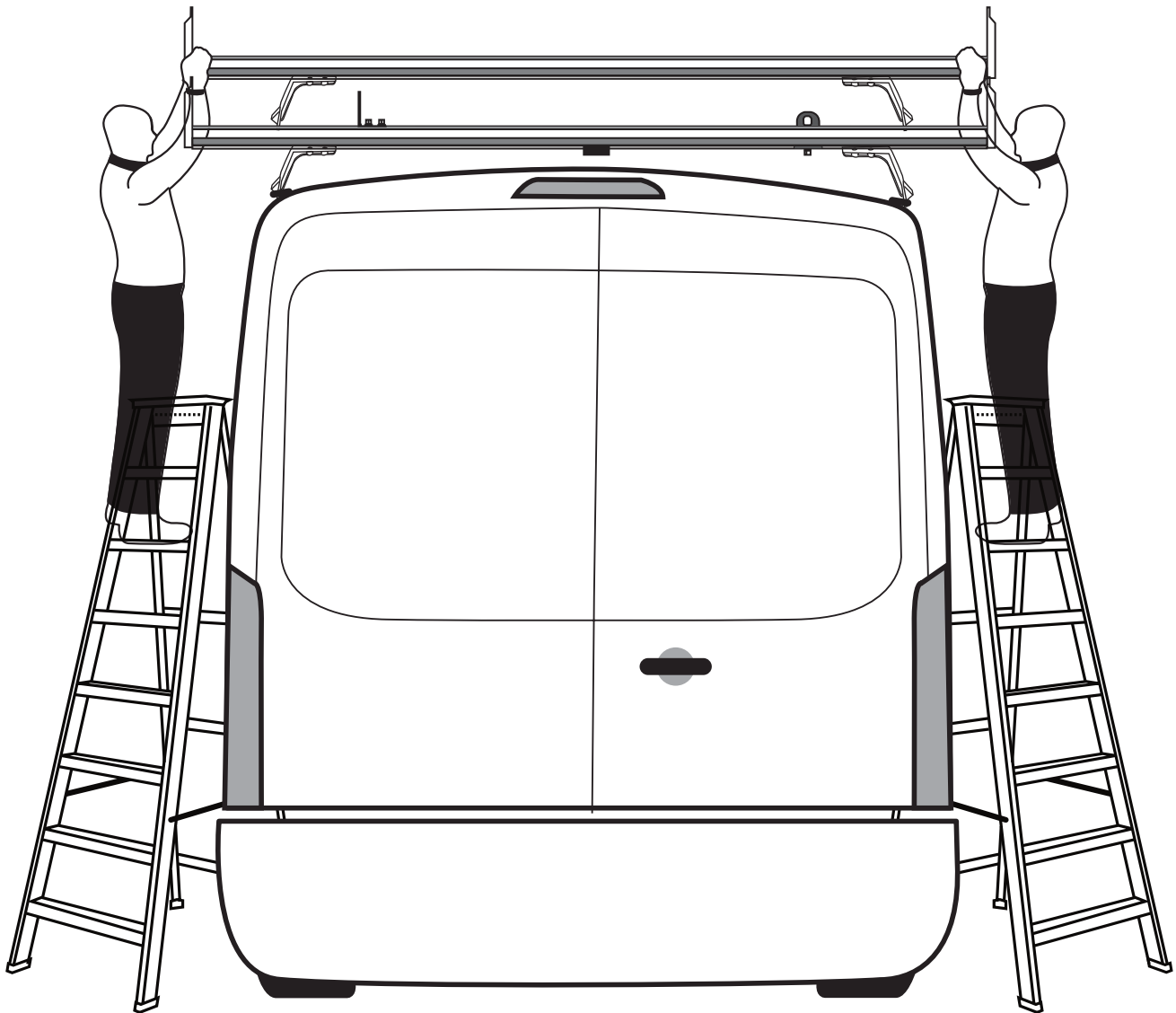
#94-105 Hex Nut

PHASE 2 – INSTALLATION

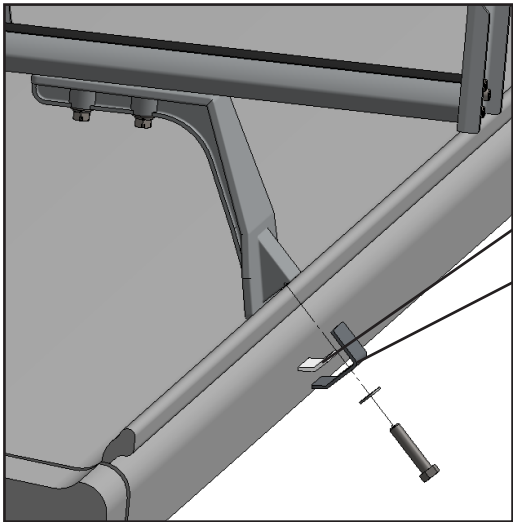
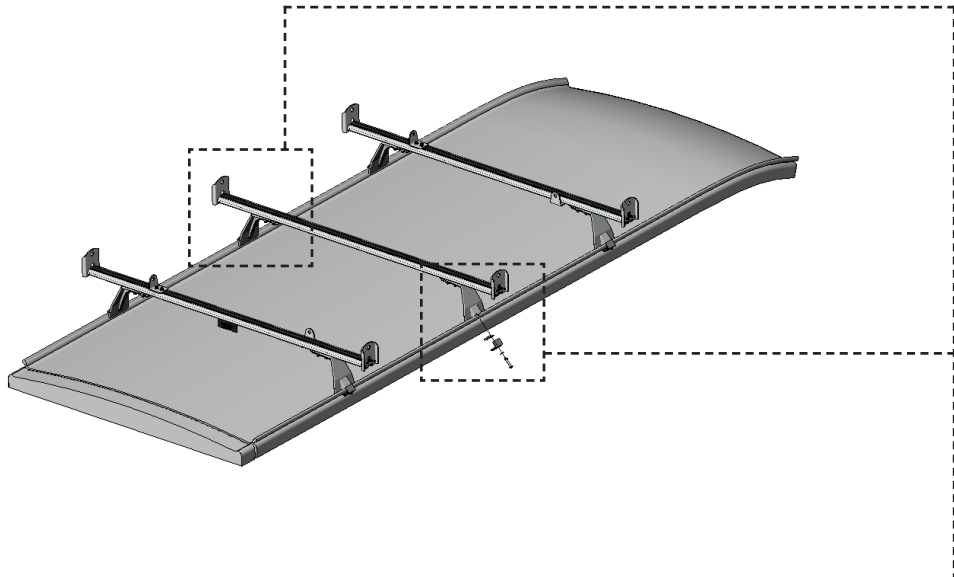
2.1 THIRD CROSSBAR INSTALLATION

2.1.1 Position the front, third and rear crossbar (**minimum two persons**) on the vehicle so that the feet are on the gutters.

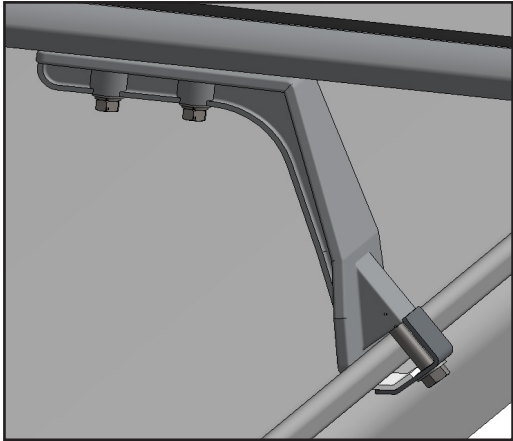
Ladder Rack



2.1.2 Clip all the feet to the roof using the gutter clips.

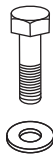


INSULATOR PAD
GUTTER CLIP



HARDWARE USED

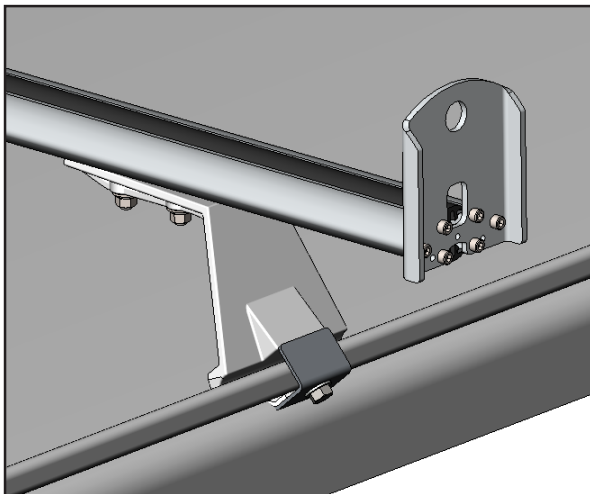
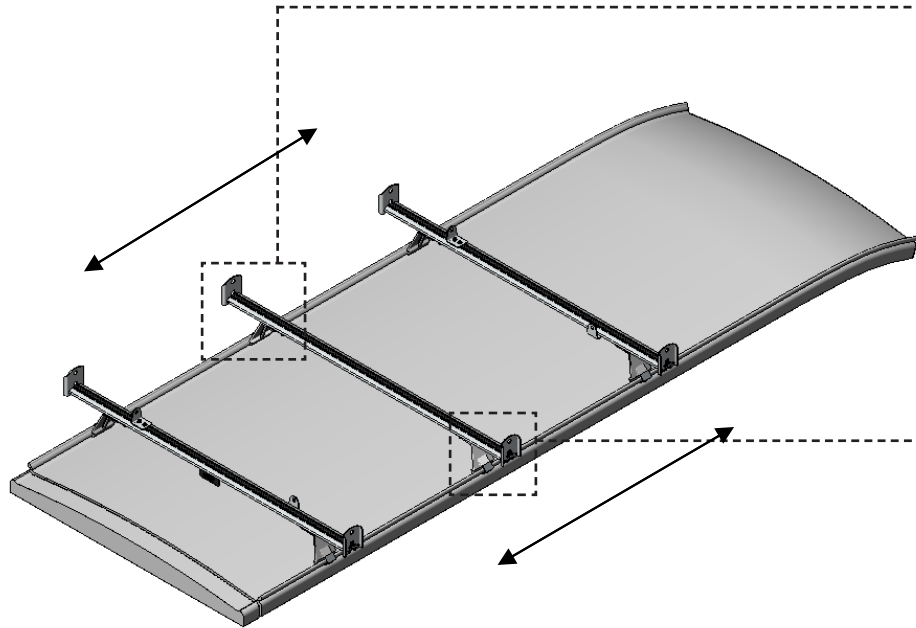
2x HAND-TIGHTEN THE NUTS.



#90-315 Hex Bolt 3/8" x 1-3/4"

#98-109 Flat Washer

2.1.3 While making sure that the third crossbar are parallel to the front and rear crossbars , place the crossbar in the appropriate position, then thighten the gutter clip bolts.



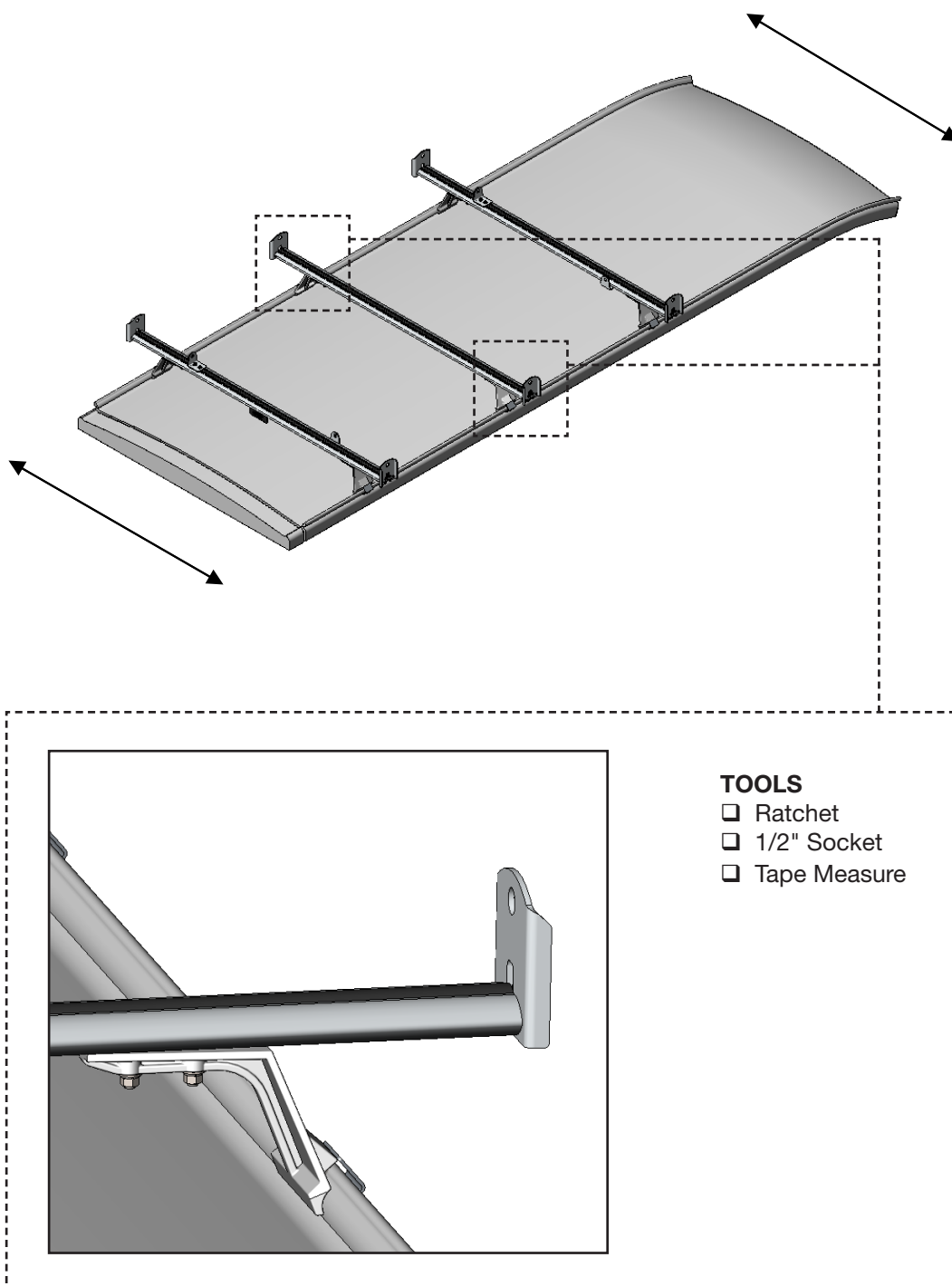
TOOLS

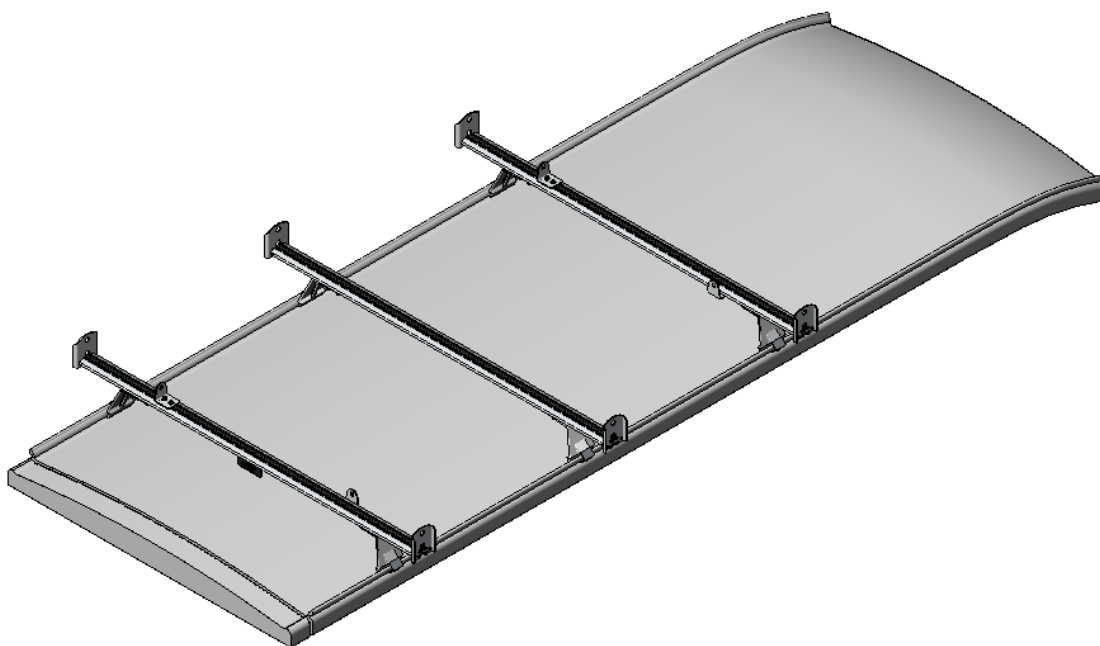
- ❑ Cordless Impact
- ❑ 9/16" Socket

2.1.4 Center the crossbar on the vehicle, then tighten all the “C” feet to the crossbar.

NOTE: The ladder cannot extend beyond the rear bumper of the vehicle.

IMPORTANT: After installation is complete, cut the track plug underneath the crossbar to fill all the unused space.





**“You have successfully installed your
Third Crossbar**

Thank you for doing business with us.”

For any feedback or suggestions you may have, please contact: [**cs@rangerdesign.com**](mailto:cs@rangerdesign.com)

