INSTALLATION GUIDE

1505-FTR Cargo Rack

Regular Ford Transit 130" Wheelbase (Aluminum)

RANGER DESIGN

QUICK START GUIDE

Phase 1 - Assembly

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

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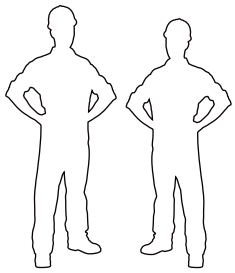
❑ 2.2 Cargo Rack Installation..... 8 - 11

REQUIRED ITEMS

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



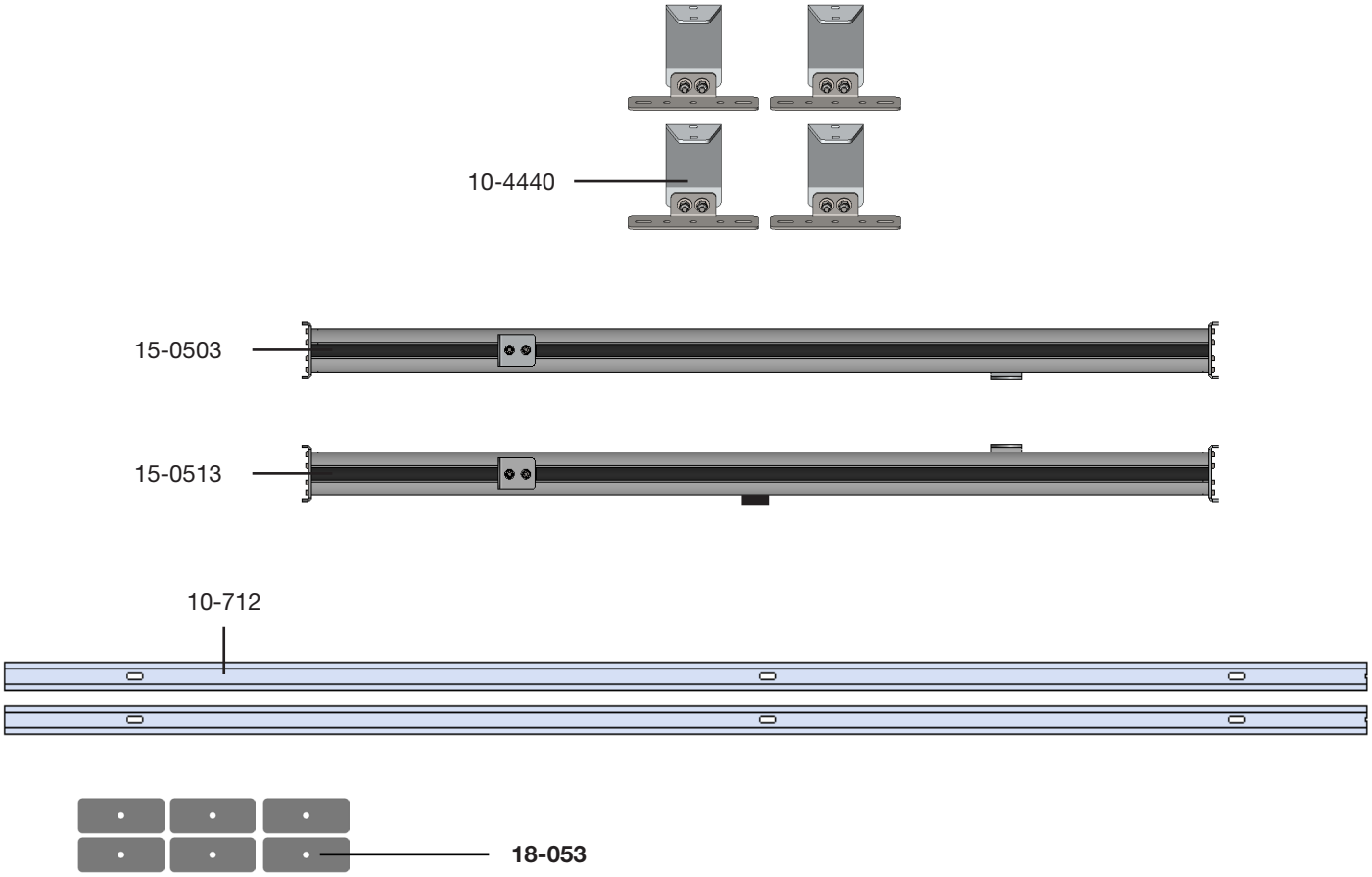
2 PERSONS

- ❑ Cordless Impact
- ❑ Ratchet
- ❑ Tape Measure
- ❑ Marker
- ❑ Ladder
- ❑ Cutter
- ❑ 1/2" Socket
- ❑ 13mm Socket
- ❑ Sawhorse (Optional)
- ❑ Box
- ❑ Knife
- ❑ 1/2" Wrench
- ❑ Silicone

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

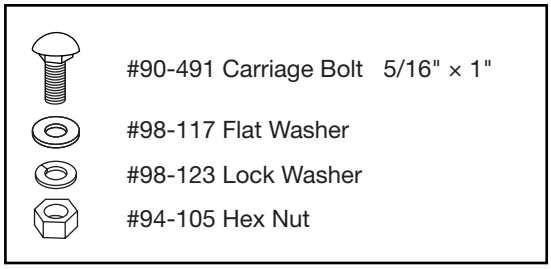
Item No.	Description	Qty.
18-053	Spacer	6
10-712	Mounting Track	2
10-4440	“C” Foot	4
15-0503	Front Crossbar	1
15-0513	Rear Crossbar	1
94-1008	Assembly Fastener Kit	1
96-1003	Install Fastener Kit	1

1.1.3 Fastener kits.

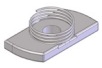
94-1008 Fastener Kit → Fastener Assembly

8×		**# 90-491**	Carriage Bolt 5/16"-18 × 1" SS304
8×		**# 94-105**	Hex Nut 5/16"-18 SS316wax
8×		**# 98-117**	Flat Washer 5/16", O.D 3/4" SS18-8
8×		**# 98-123**	Lock Washer Regular 5/16" SS304

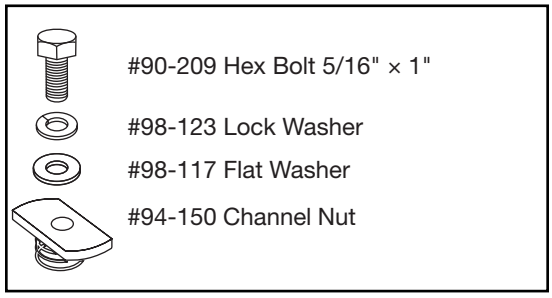
8×



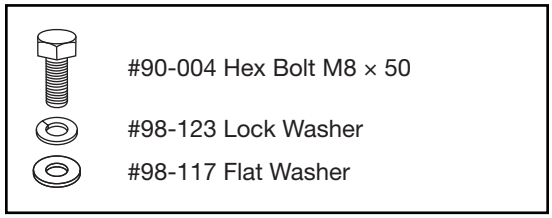
96 - 1003 Fastener Kit → Fastener Assembly

8×		**# 90-209**	Hex Bolt 5/16"-18 × 1" SS304
6×		**# 90-004**	Hex Bolt M8-1.25 × 50mm SS304
8×		**# 94-150**	Channel Nut 5/16"
14×		**# 98-117**	Flat Washer 5/16", OD 3/4" SS18-8
14×		**# 98-123**	Lock Washer 5/16" SS304

8×



6×

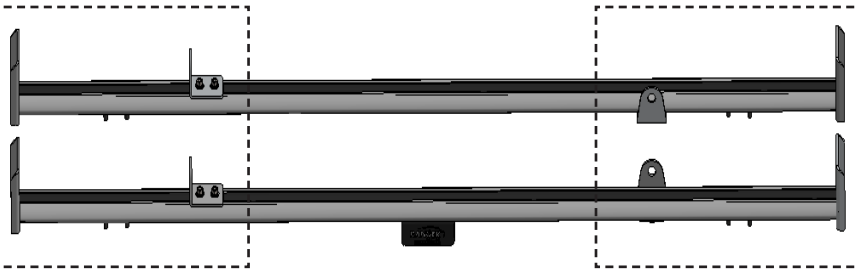


PHASE 1 – ASSEMBLY

1.2 CARGO RACK ASSEMBLY

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

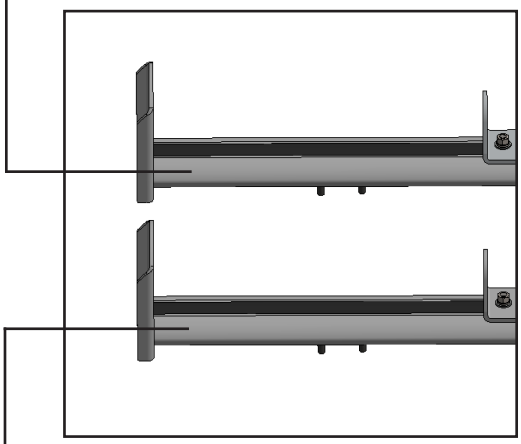
NOTE: The track plug must be removed from the underneath of the front crossbar, and reinstalled after the feet have been installed in the final position, see 2.2.4.



DRIVER SIDE

Front crossbar

• Slide 2 pcs. of 1" carriage bolts.



Rear crossbar

• Slide 2 pcs. of 1" carriage bolts.

HARDWARE USED

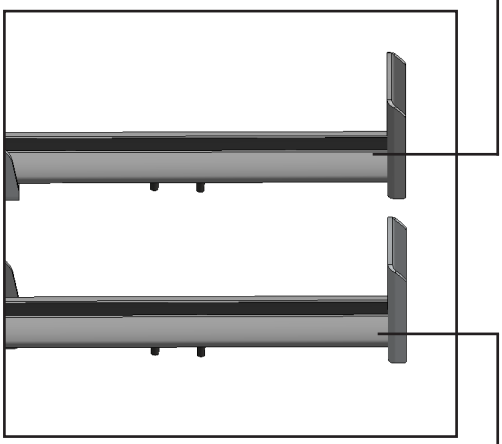
4×

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

PASSENGER SIDE

Front crossbar

• Slide 2 pcs. of 1" carriage bolts.



Rear crossbar

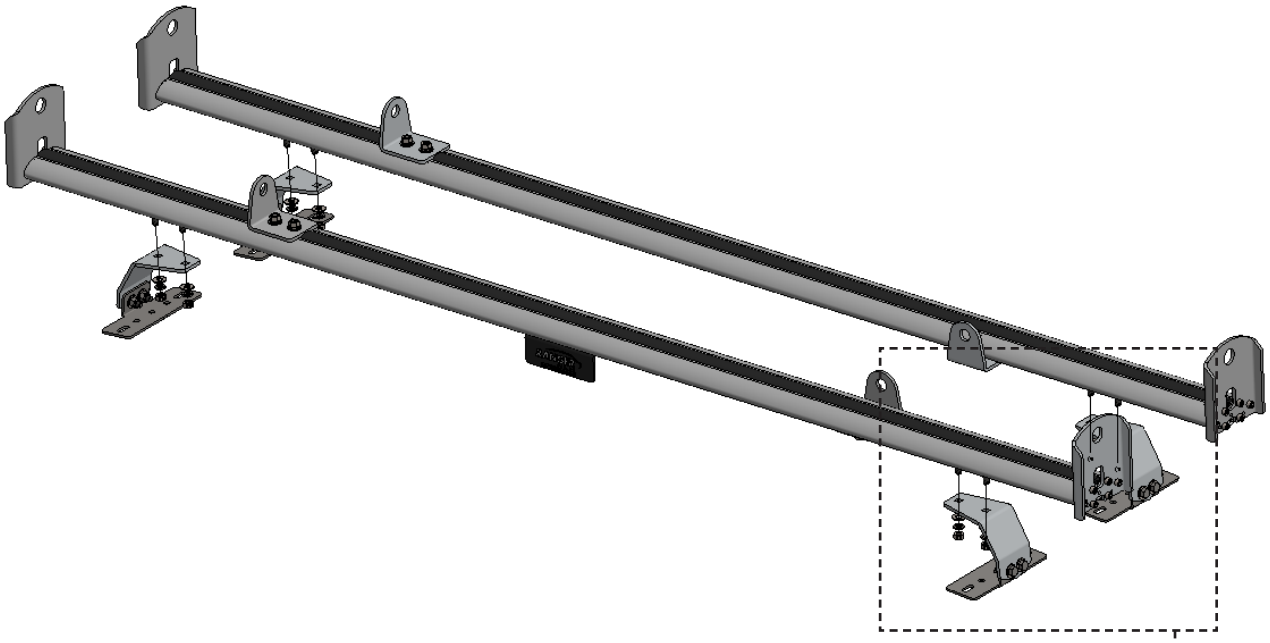
• Slide 2 pcs. of 1" carriage bolts.

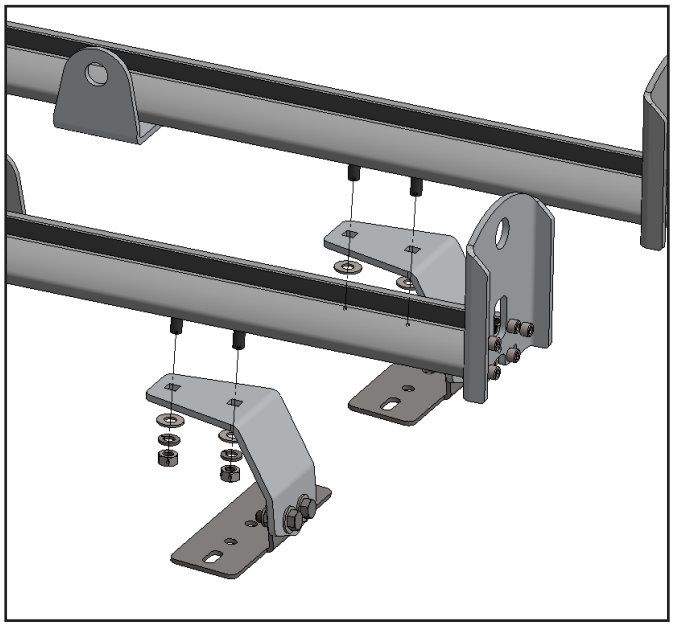
HARDWARE USED

4×

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

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





HARDWARE USED

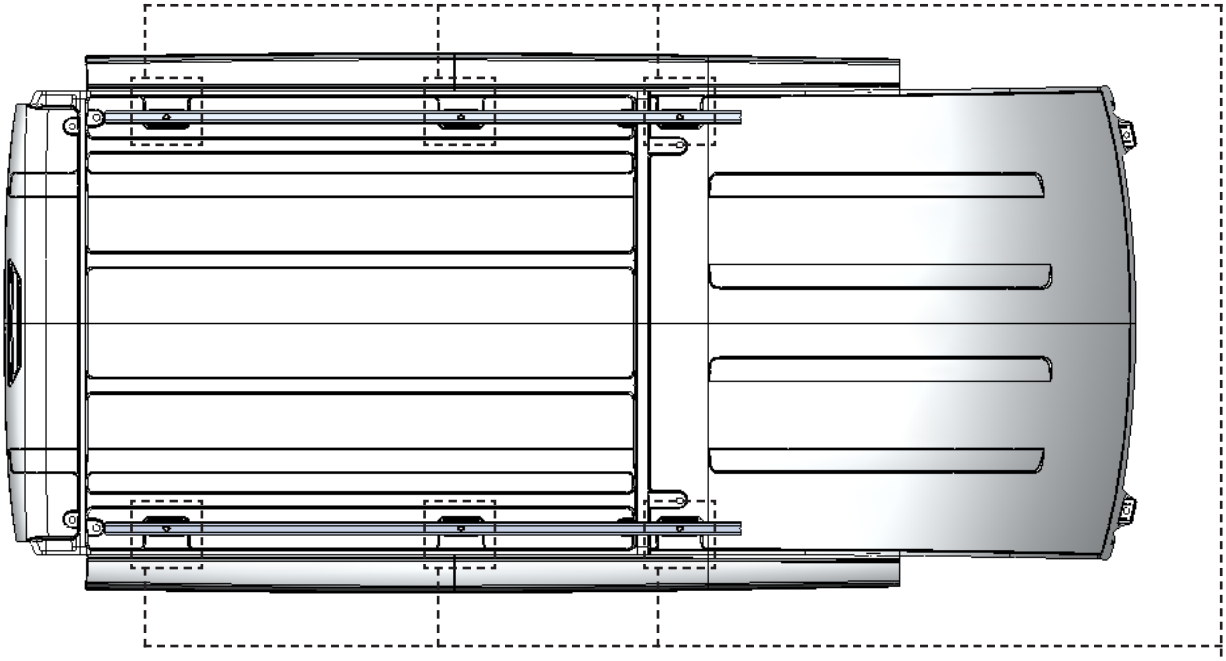
8× **HAND-TIGHTEN THE NUTS.**

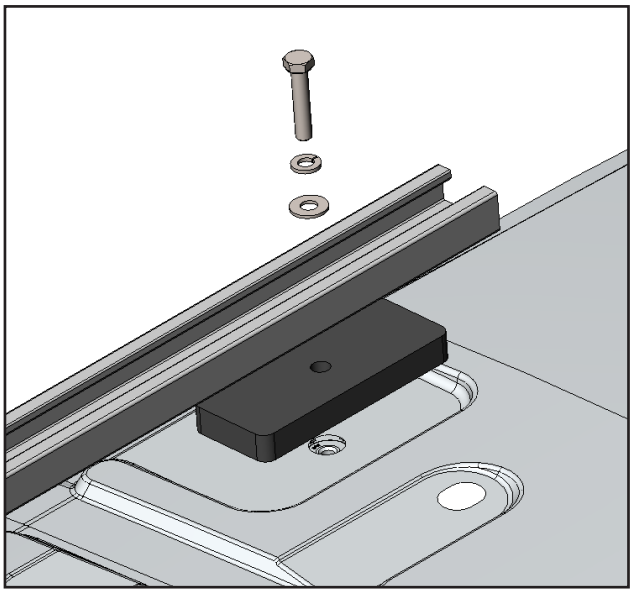
	Carriage bolts are already on the crossbars.
	#98-117 Flat Washer
	#98-123 Lock Washer
	#94-105 Hex Nut

PHASE 2 – INSTALLATION

2.1 MOUNTING TRACKS INSTALLATION

2.1.1 • Remove existing plugs on the vehicle roof holes.
• Use a tap (M8 - 1.25) to remove the excess dirt/paint in the holes of the van.
• ***Apply a bead of silicone around the bolts and holes***, then fasten the tracks to the roof.



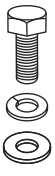


TOOLS

- ❑ Cordless Impact
- ❑ 13mm Socket

FASTENERS USED

6×



#90-004 Hex Bolt M8 × 50

#98-123 Lock Washer

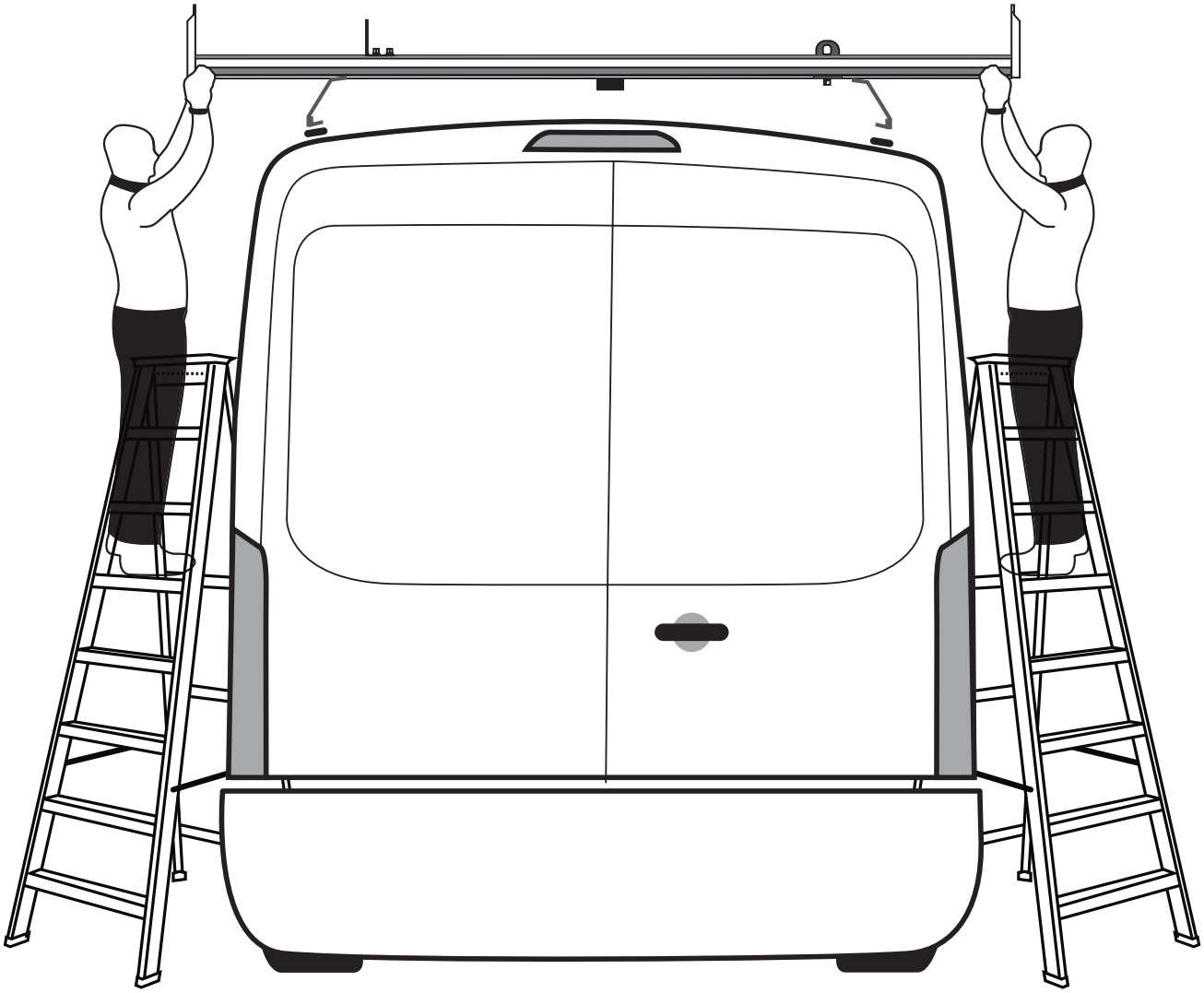
#98-117 Flat Washer

PHASE 2 – INSTALLATION

2.2 CARGO RACK INSTALLATION

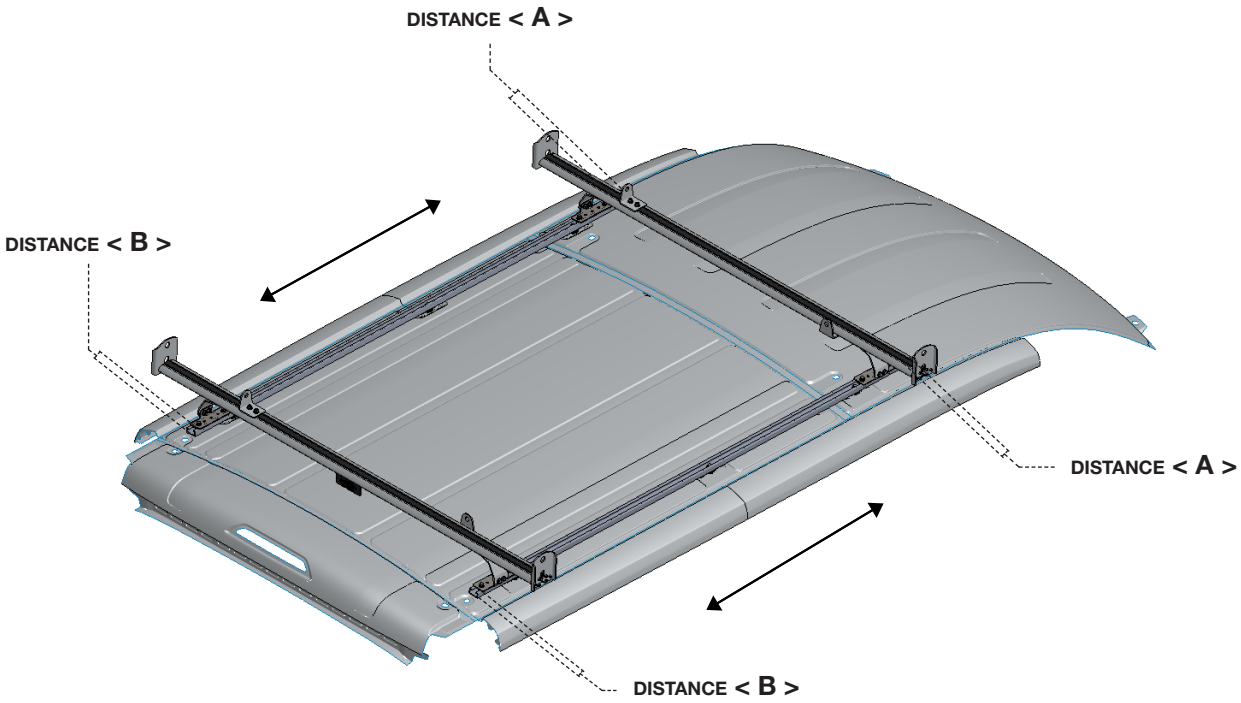
2.2.1 Position the front and rear crossbars **(minimum two persons)** on the vehicle so that the feet are on the mounting tracks.

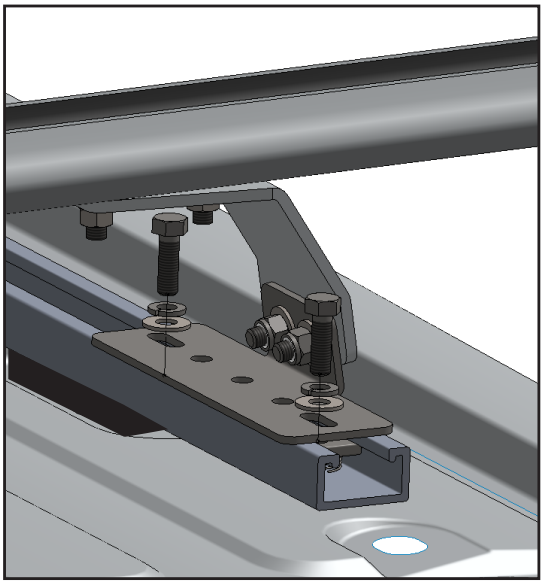
Cargo Rack



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 >

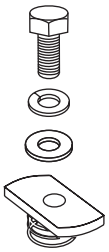




TOOLS
- ❑ Ratchet
- ❑ 1/2" Socket
- ❑ Tape Measure

FASTENERS USED

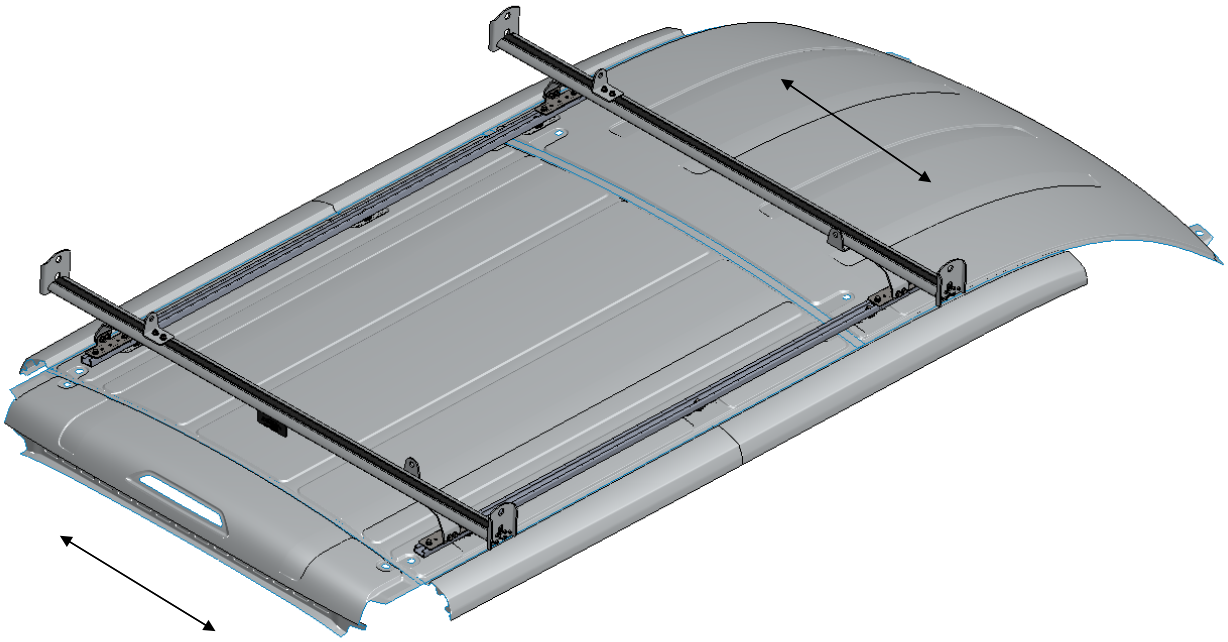
8×

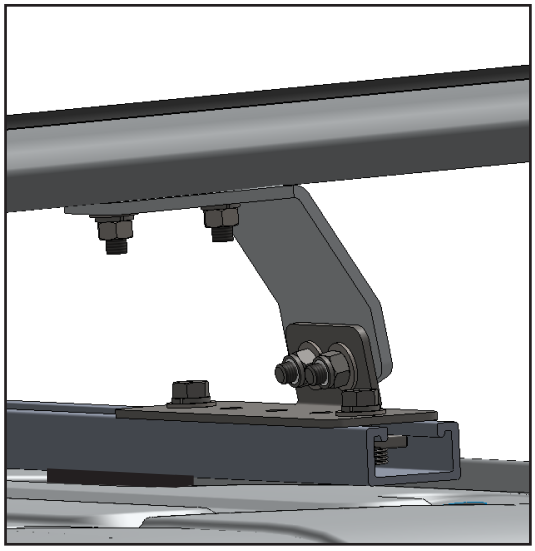


#90-209 Hex Bolt 5/16" × 1"
#98-123 Lock Washer
#98-117 Flat Washer
#94-150 Channel Nut

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.

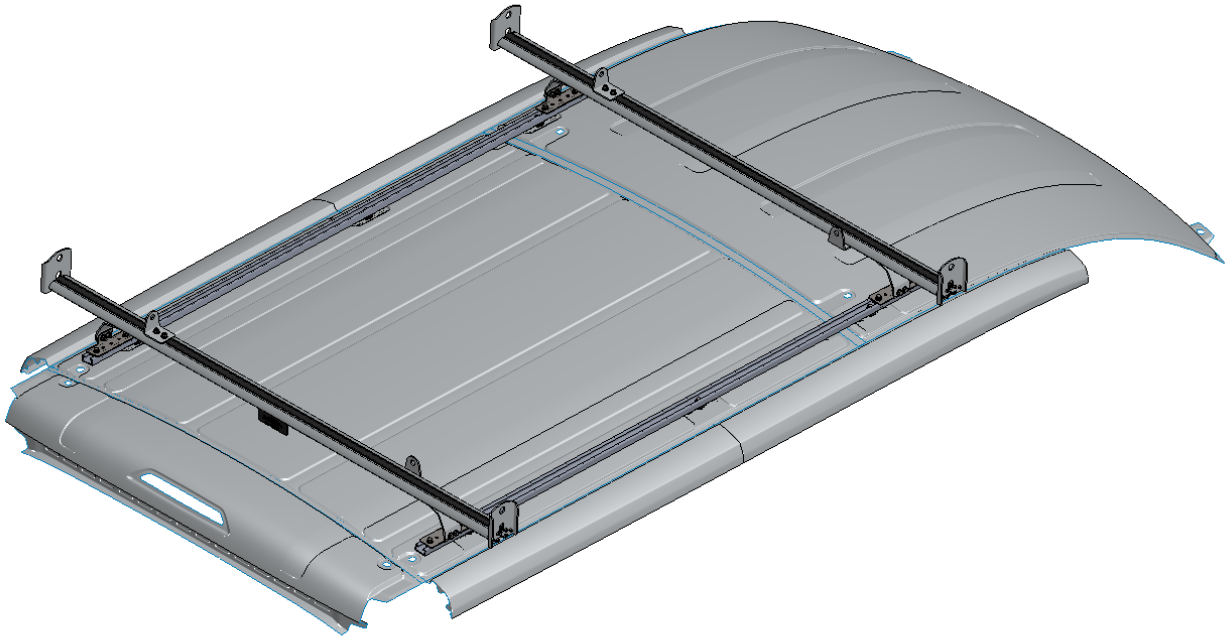


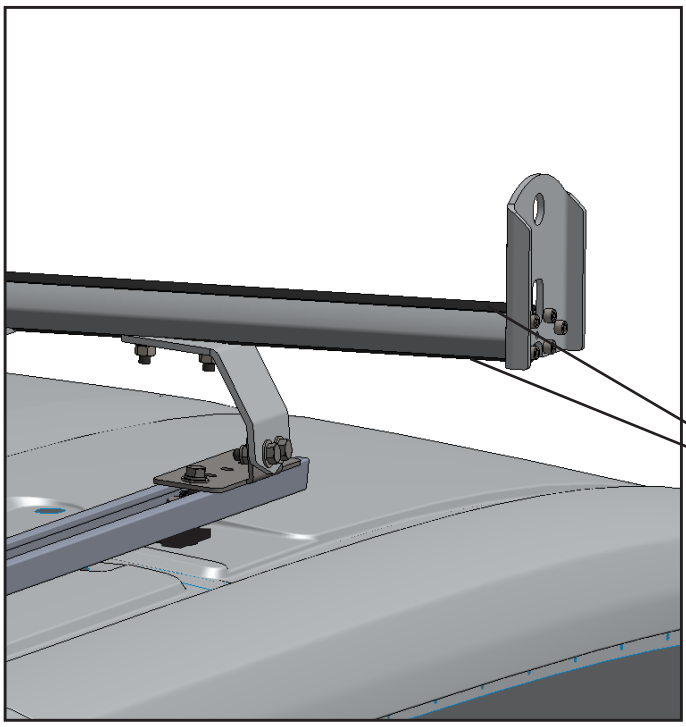


TOOLS

- ❑ Ratchet
- ❑ 1/2" Socket

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.

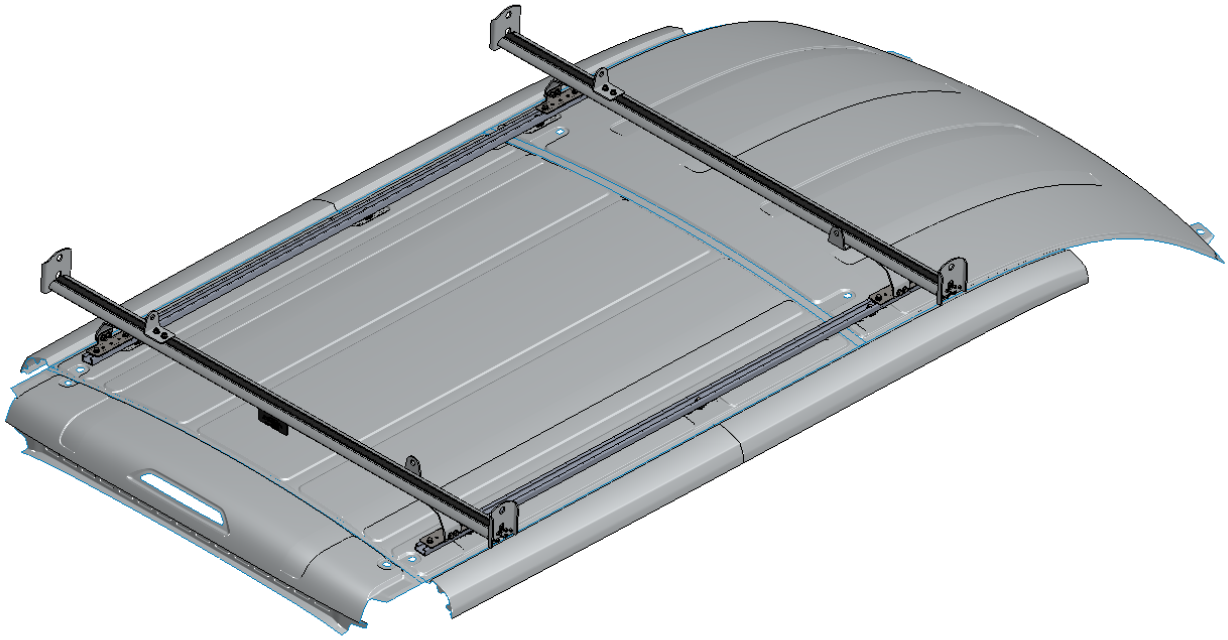




TOOLS

❑ Cutter

TRACK PLUG



“You have successfully installed your 1505-FTR Cargo Rack

Thank you for doing business with us.”

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

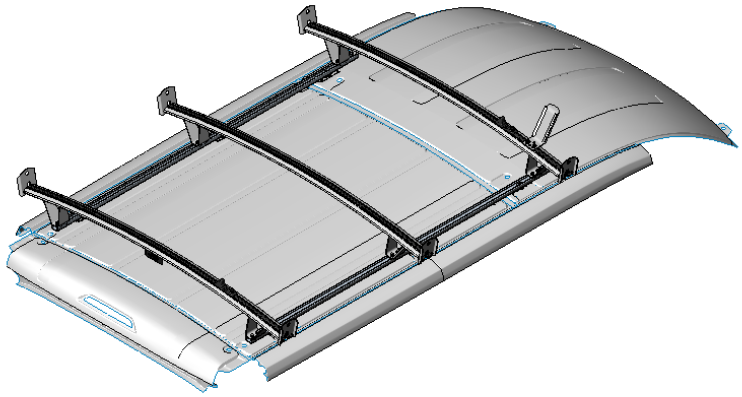
INSTALLATION GUIDE

15-U1057 THIRD CROSSBOW

Long and Regular Ford Transit (Aluminum)

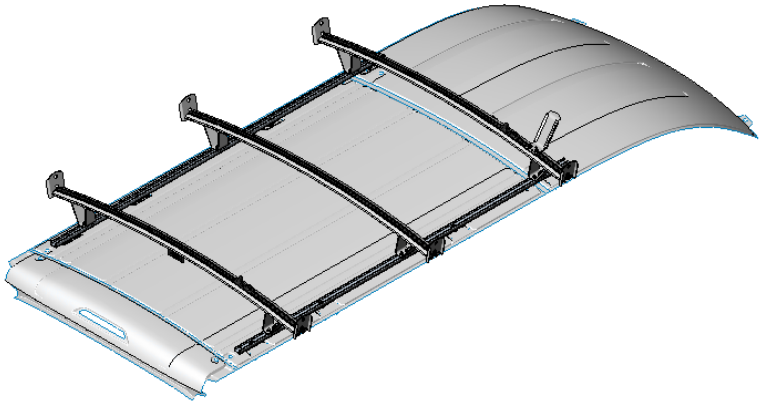
RANGER DESIGN

STANDARD LADDER RACK WITH THIRD CROSSBOW



1510-FTR3 STANDARD LADDER RACK

Regular Ford Transit 130” Wheelbase (Aluminum)



1510-FTL3 STANDARD LADDER RACK

Long Ford Transit 148” and 148” Ext Wheelbase (Aluminum)

RANGER DESIGN

QUICK START GUIDE

Phase 1 - Assembly

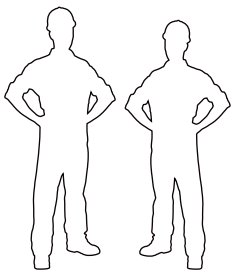
❑ 1.1 Setup..... 4 - 5
❑ 1.2 Third Crossbow Assembly..... 6 - 7

Phase 2 - Installation

❑ 2.1 Channel Nut Installation..... 8
❑ 2.2 Third Crossbow Installation..... 9 - 11

REQUIRED ITEMS

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



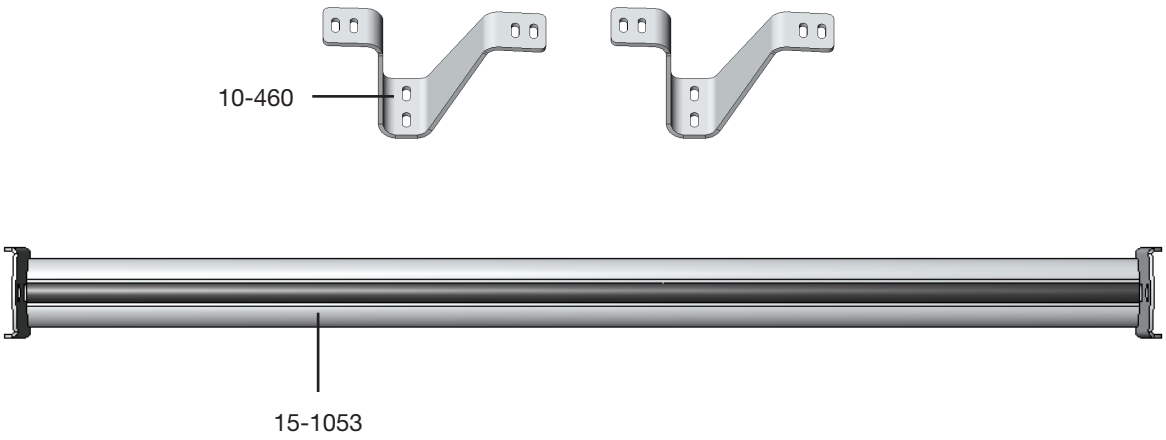
2 PERSONS

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

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.
10-460	“V” Foot	2
15-1053	Third Crossbow	1
94-1008	Assembly Fastener Kit	1
96-1021	Install Fastener Kit	1

1.1.3 Fastener kits.

94-1008 Fastener Kit → Fastener Assembly

8×		**# 90-491**	Carriage Bolt 5/16"-18 × 1" SS304
8×		**# 94-105**	Hex Nut 5/16"-18 SS316wax
8×		**# 98-117**	Flat Washer 5/16", O.D 3/4" SS18-8
8×		**# 98-123**	Lock Washer Regular 5/16" SS304

8×

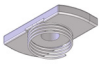
#90-491 Carriage Bolt 5/16" × 1"

#98-117 Flat Washer

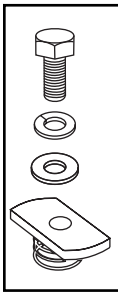
#98-123 Lock Washer

#94-105 Hex Nut

96-1021 Fastener Kit → Fastener Assembly

4×		**# 90-209**	Hex Bolt 5/16"-18 × 1" SS304
4×		**# 94-150**	Channel Nut 5/16"
4×		**# 98-117**	Flat Washer 5/16", OD 3/4" SS18-8
4×		**# 98-123**	Lock Washer 5/16" SS304

4×



#90-209 Hex Bolt 5/16" × 1"

#98-123 Lock Washer

#98-117 Flat Washer

#94-150 Channel Nut

PHASE 1 – ASSEMBLY

1.2 THIRD CROSSBOW ASSEMBLY

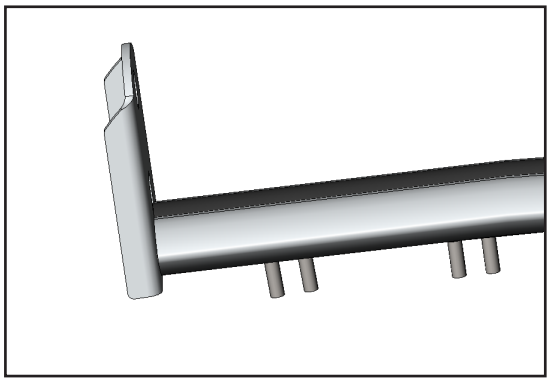
1.2.1 Slide carriage bolts on the bottom face of the crossbow.

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

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

DRIVER SIDE

• Slide 4 pcs. of 1" carriage bolts.



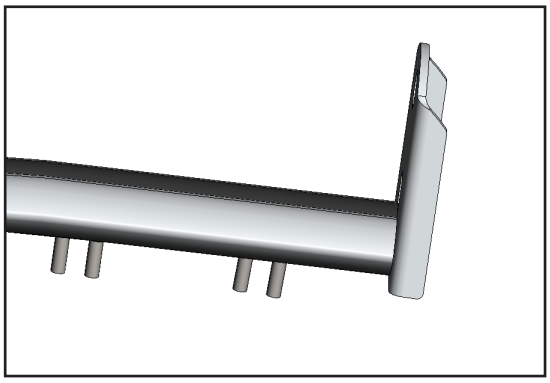
HARDWARE USED

4×

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

PASSENGER SIDE

• Slide 4 pcs. of 1" carriage bolts.

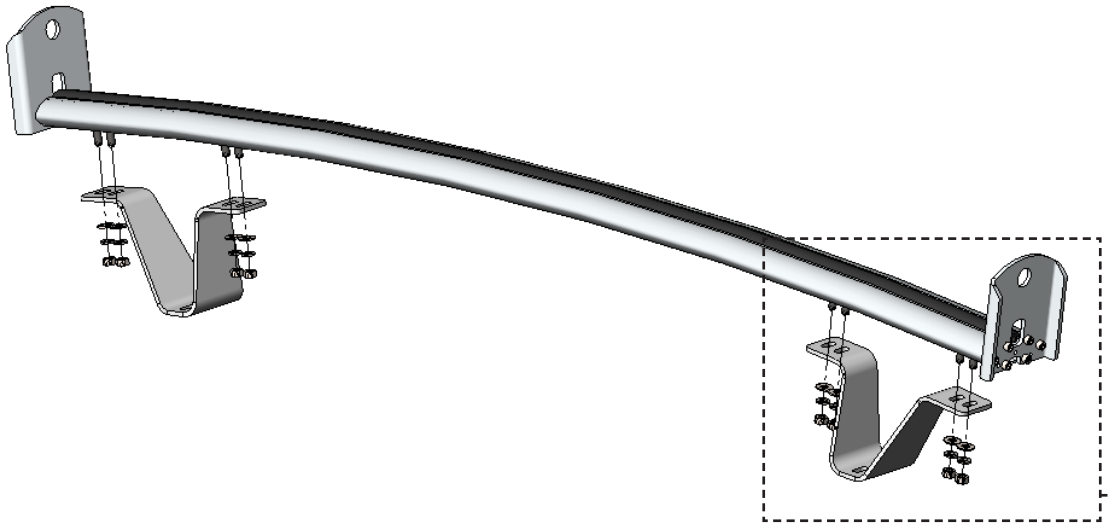


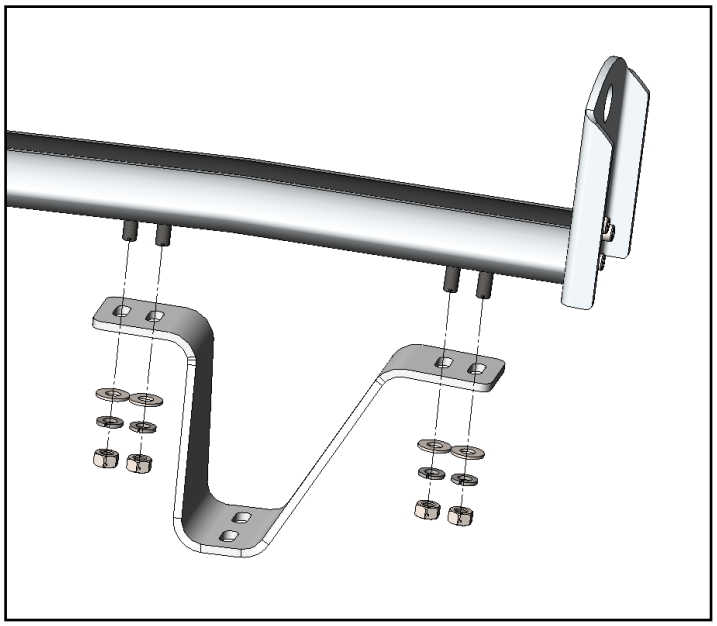
HARDWARE USED

4×

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

1.2.2 Install the feet on the crossbow.





HARDWARE USED

8× **HAND-TIGHTEN THE NUTS.**

Carriage bolts are already on the crossbows.

#98-117 Flat Washer

#98-123 Lock Washer

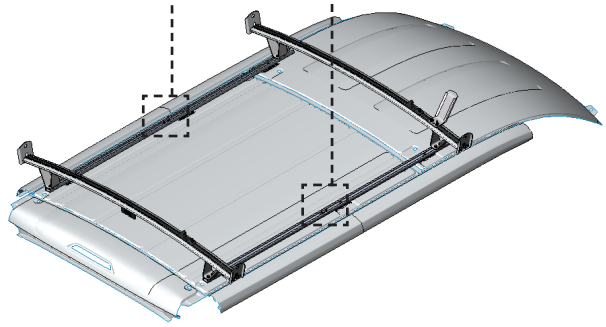
#94-105 Hex Nut

PHASE 2 – INSTALLATION

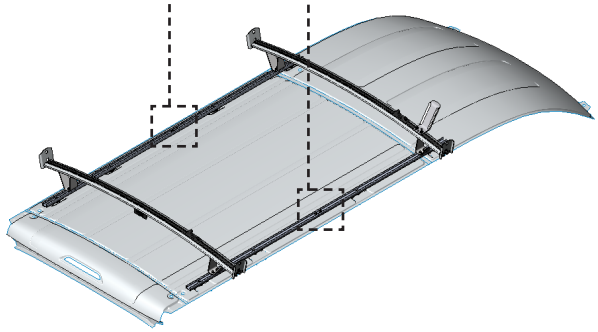
2.1 CHANNEL NUT INSTALLATION

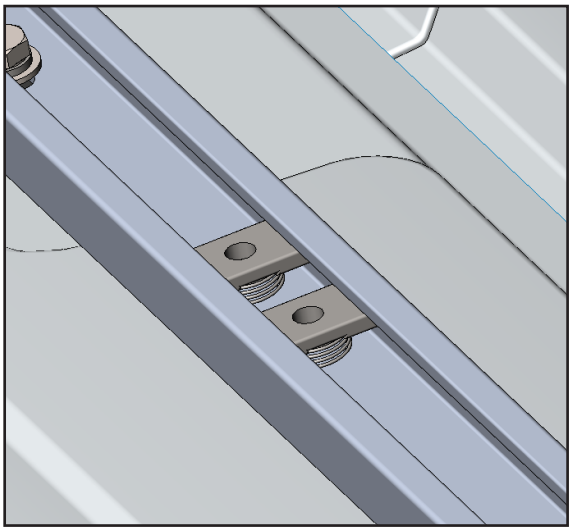
2.1.1 Attach two channel nuts on each mounting tracks.

1510-FTR3



1510-FTL3





HARDWARE USED

8×

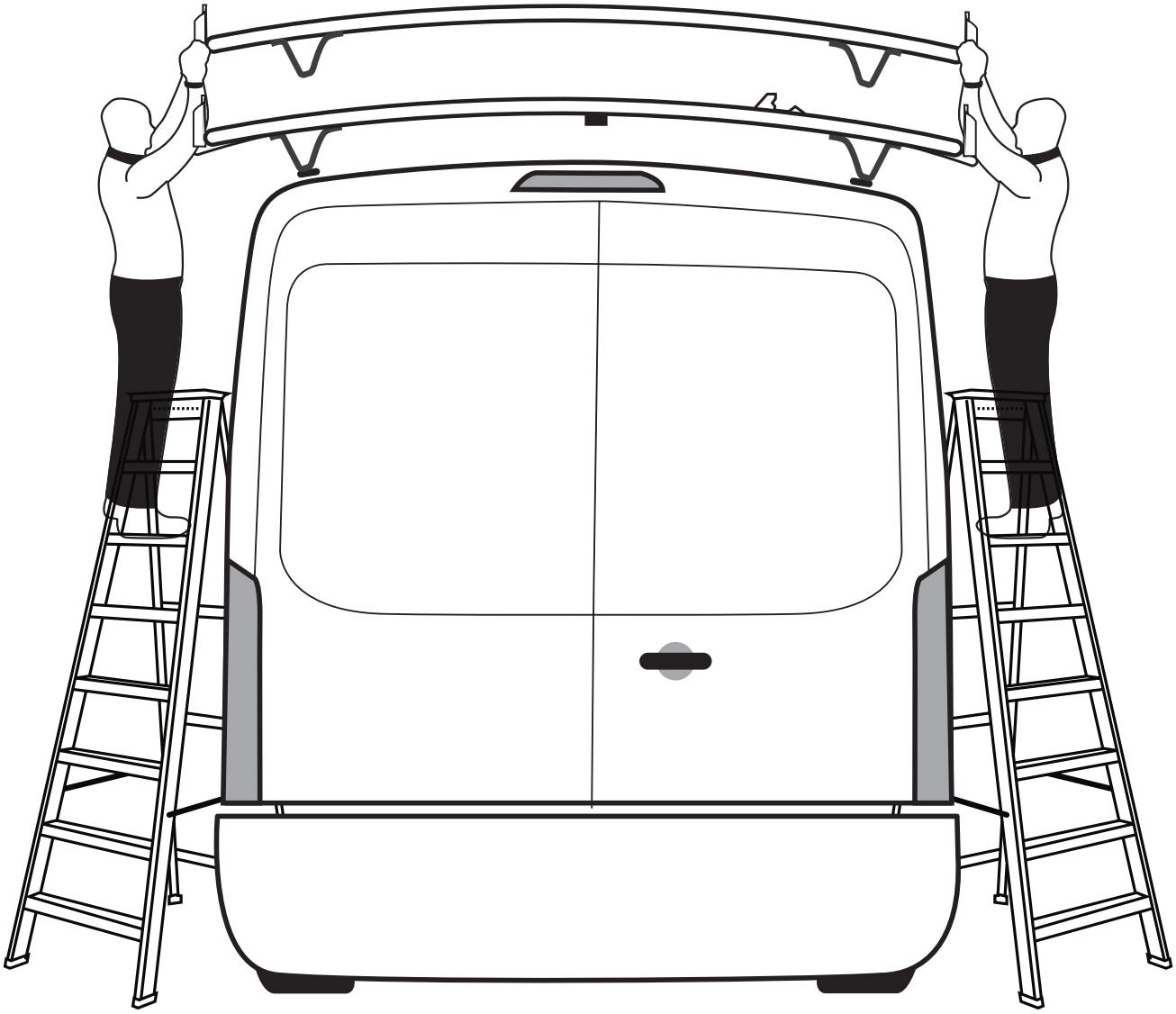
#94-150 Channel Nut

PHASE 2 – INSTALLATION

2.2 THIRD CROSSBOW INSTALLATION

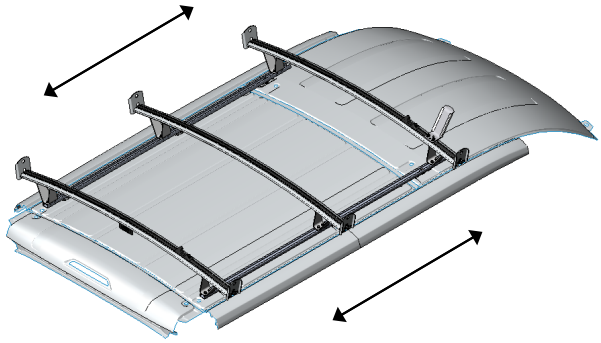
2.2.1 Position the third crossbow **(minimum two persons)** on the vehicle so that the feet are on the tracks.

Ladder Rack

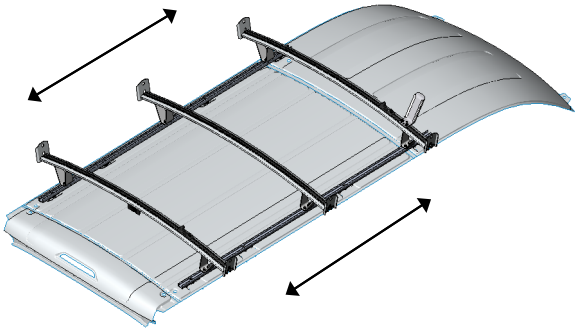


2.2.2 While making sure the crossbow are parallel to front and rear crossbows, place the crossbow in the appropriate position, then attach the feet to the mounting track.

1510-FTR3



1510-FTL3

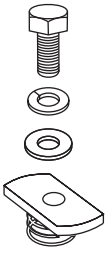


TOOLS

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

FASTENERS USED

4×



#90-209 Hex Bolt 5/16" × 1"

#98-123 Lock Washer

#98-117 Flat Washer

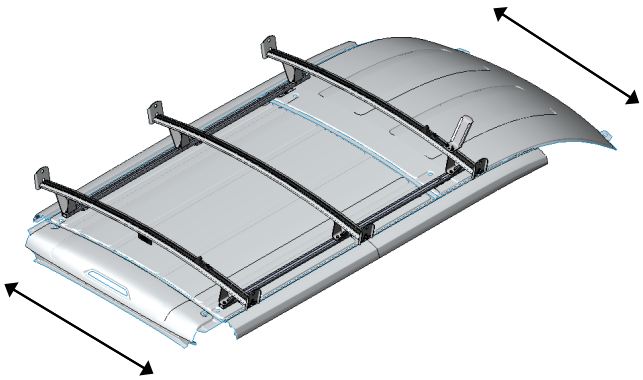
#94-150 Channel Nut

2.2.3 Center the crossbow on the vehicle, then tighten the “V” feet to the crossbow.

NOTE: • The ladder cannot extend beyond the rear bumper of the vehicle.
• The center of the ladder must be behind the front crossbow when the ladder is loaded.

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

1510-FTR3



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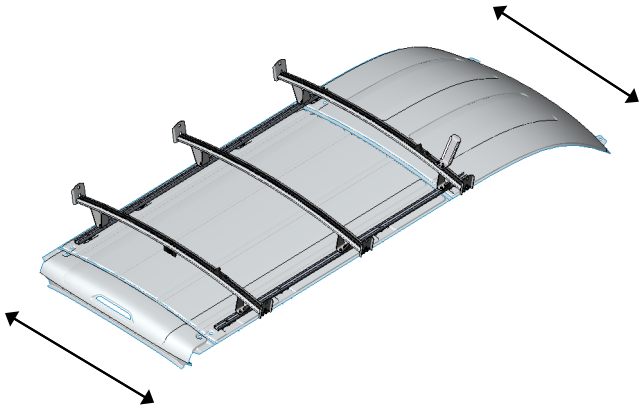
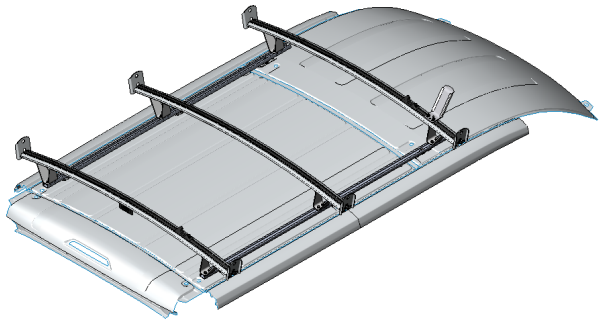


TOOLS
- ❑ Ratchet
- ❑ 1/2" Socket
- ❑ Tape Measure

1510-FTR3



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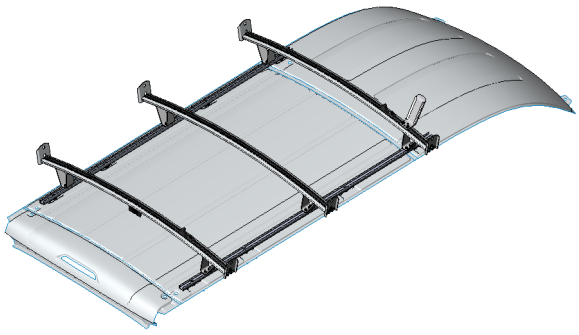

“You have successfully installed your Third Crossbow

Thank you for doing business with us.”

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