

# INSTALLATION GUIDE



## 1505-NH Cargo Rack

Nissan NV 140" Wheelbase High Roof ( Aluminum )



# QUICK START GUIDE

## Phase 1 - Assembly

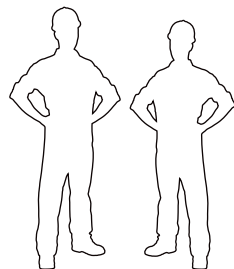
❑ 1.1 Setup.....	3 - 4
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## Phase 2 - Installation

❑ 2.1 Mounting Tracks Installation.....	7
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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.



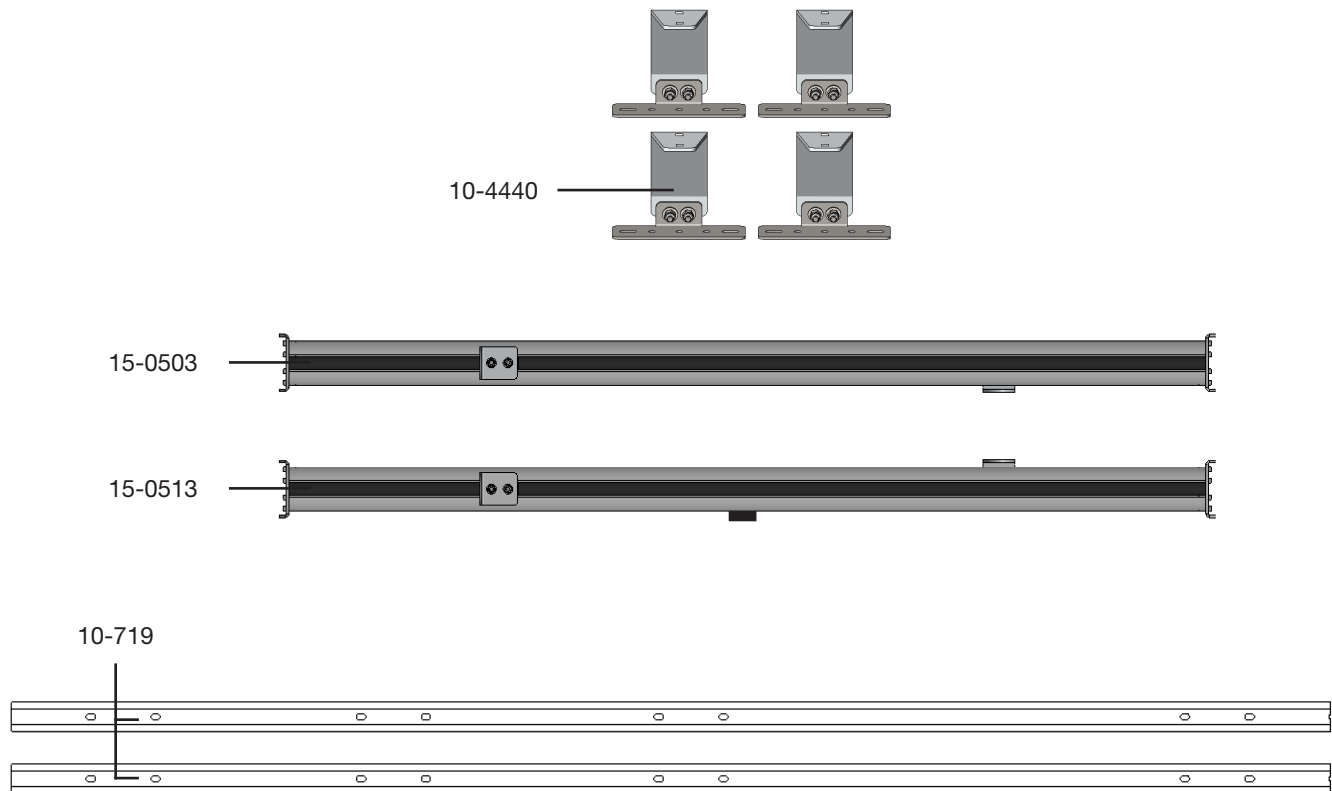
**2  
PERSONS**

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

# 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.
10-719	Mounting Track	2
10-4440	“C” Foot	4
15-0503	Front Crossbar	1
15-0513	Rear Crossbar	1
94-1008	Assembly Fastener Kit	1
96-1002	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


8x




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



#98-117 Flat Washer




#98-123 Lock Washer



#94-105 Hex Nut

96-1002 Fastener Kit


16x



# 90-203

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


8x



# 90-209

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


24x



# 94-150

Channel Nut  
5/16"


24x



# 98-117

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

24x




# 98-123


Lock Washer  
5/16"  
SS304

Fastener Assembly


16x




#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



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.

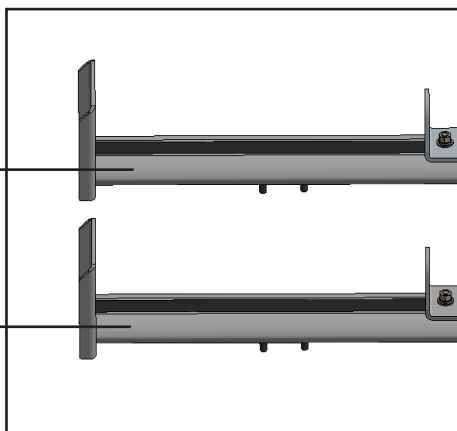
**NOTE:** The track plug must be removed from the underneath of the front crossbar, and reinstalled after the feet have been installed in the final position, see 2.2.4.



### DRIVER SIDE

#### Front crossbar

- Slide 2 pcs. of 1" carriage bolts.



#### Rear crossbar

- Slide 2 pcs. of 1" carriage bolts.

#### HARDWARE USED

4x

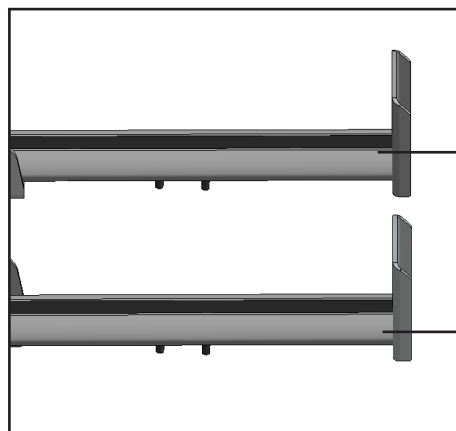


#90-491 Carriage Bolt  
5/16" x 1" SS304

### PASSENGER SIDE

#### Front crossbar

- Slide 2 pcs. of 1" carriage bolts.



#### Rear crossbar

- Slide 2 pcs. of 1" carriage bolts.

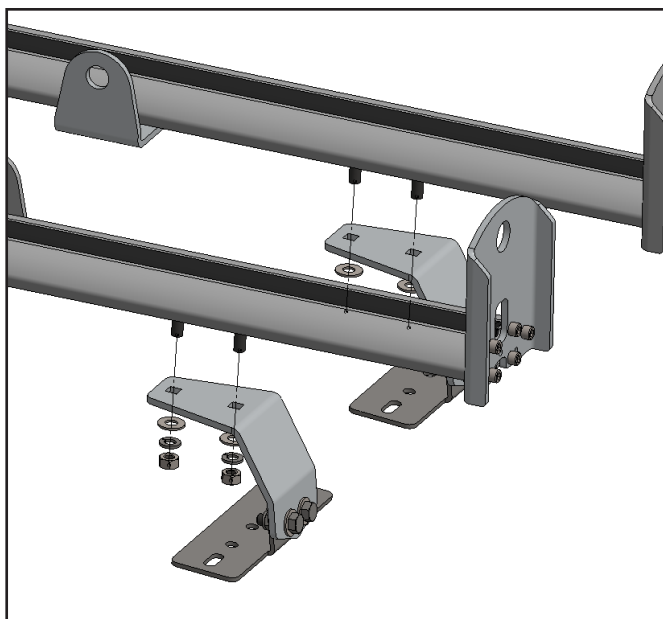
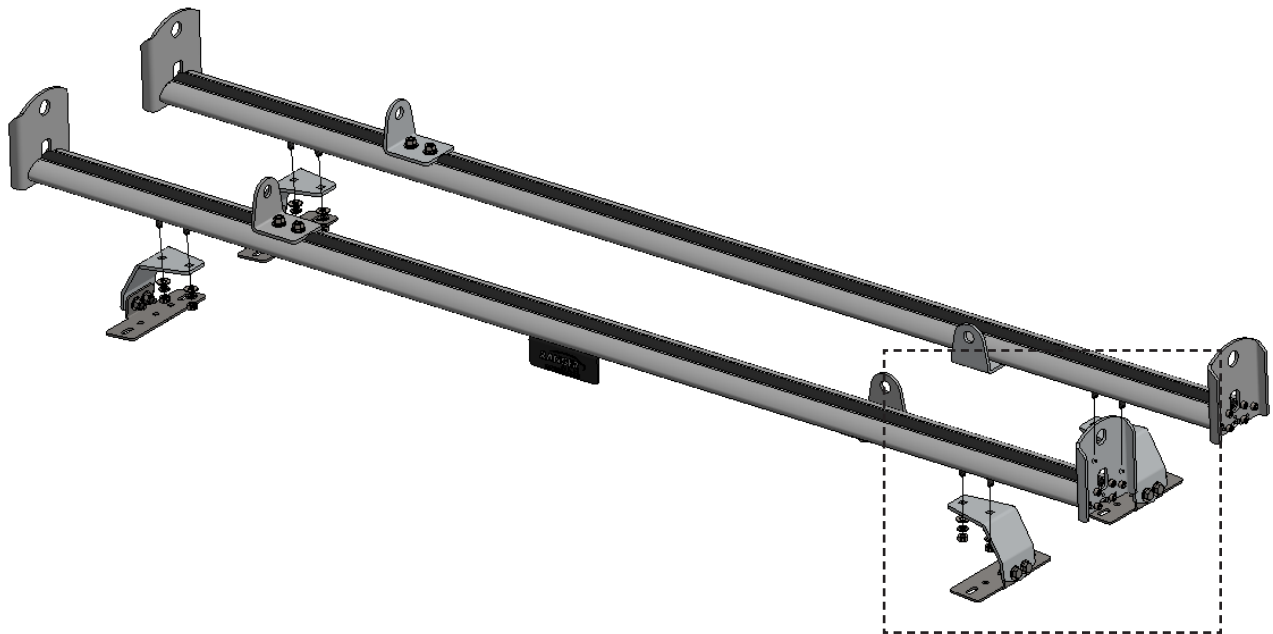
#### HARDWARE USED

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

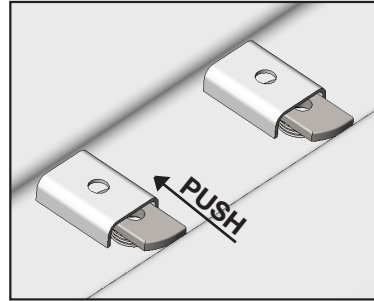
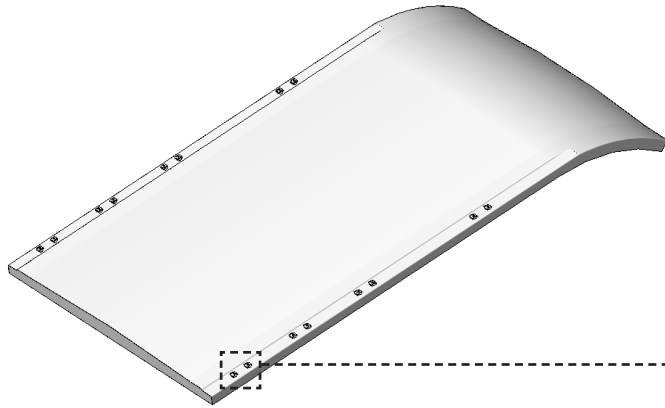


#94-105 Hex Nut

# PHASE 2 – INSTALLATION

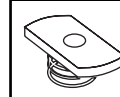
## 2.1 MOUNTING TRACKS INSTALLATION

2.1.1 Install the channel nuts in the roof.



### FASTENERS USED

16x

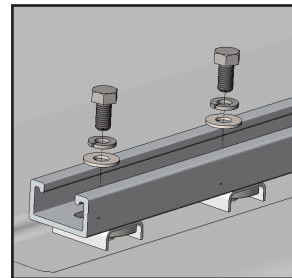
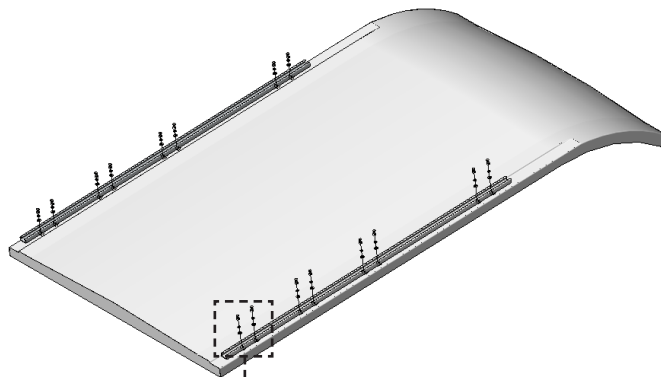
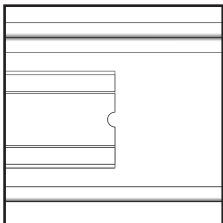


#94-150 Channel Nut

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

**NOTE:** The ends of the mounting tracks with the half-circles go to the front of the vehicle.

### FRONT



### TOOLS

- ☐ Cordless Impact
- ☐ 1/2" Socket

### FASTENERS USED

16x



#90-203 Hex Bolt 5/16" x 1"



#98-123 Lock Washer



#98-117 Flat Washer



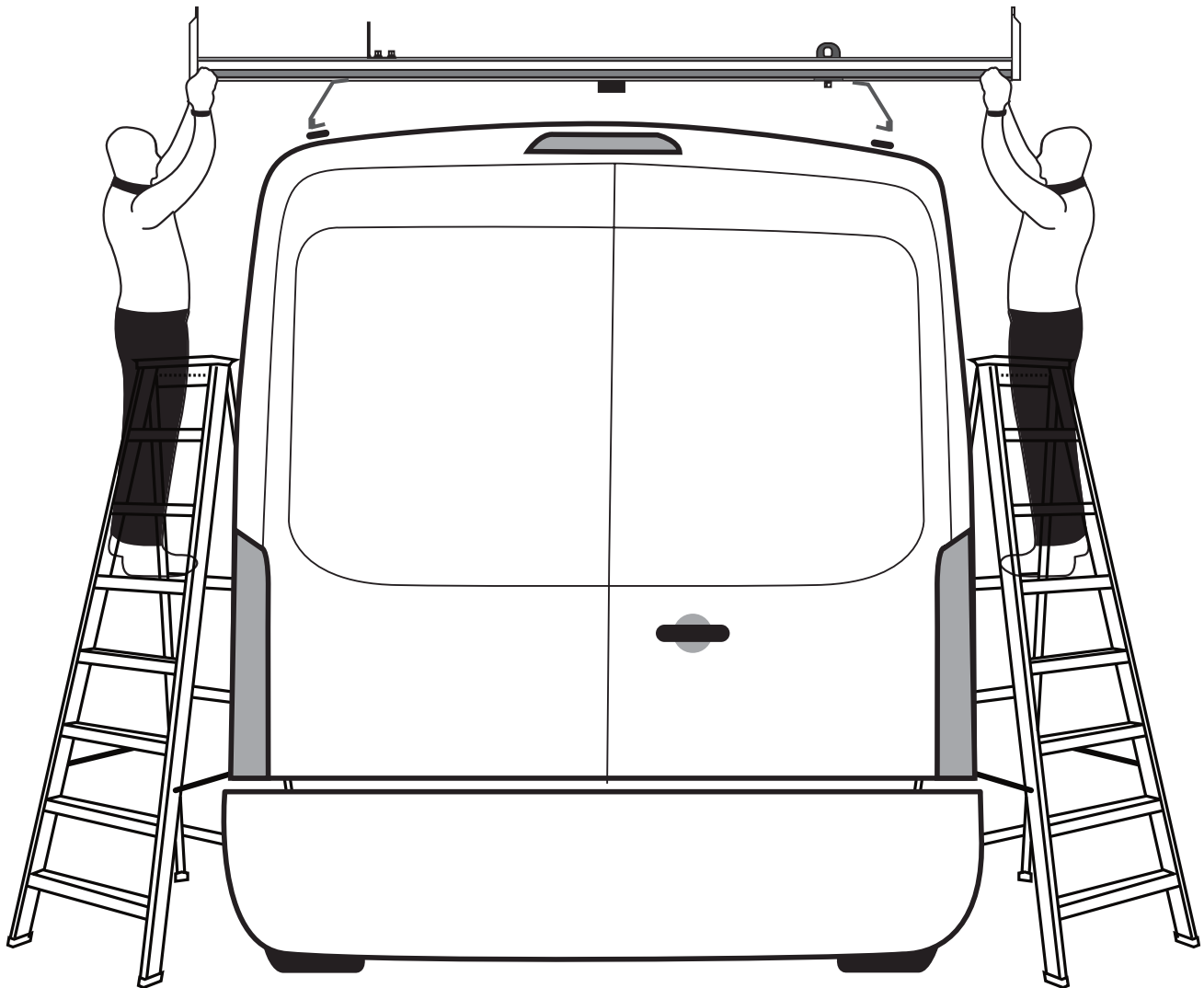
Channel Nuts are already on the van.

# 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 mounting tracks.

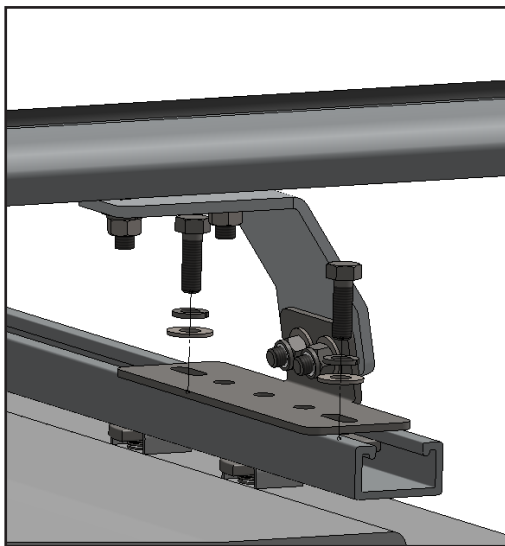
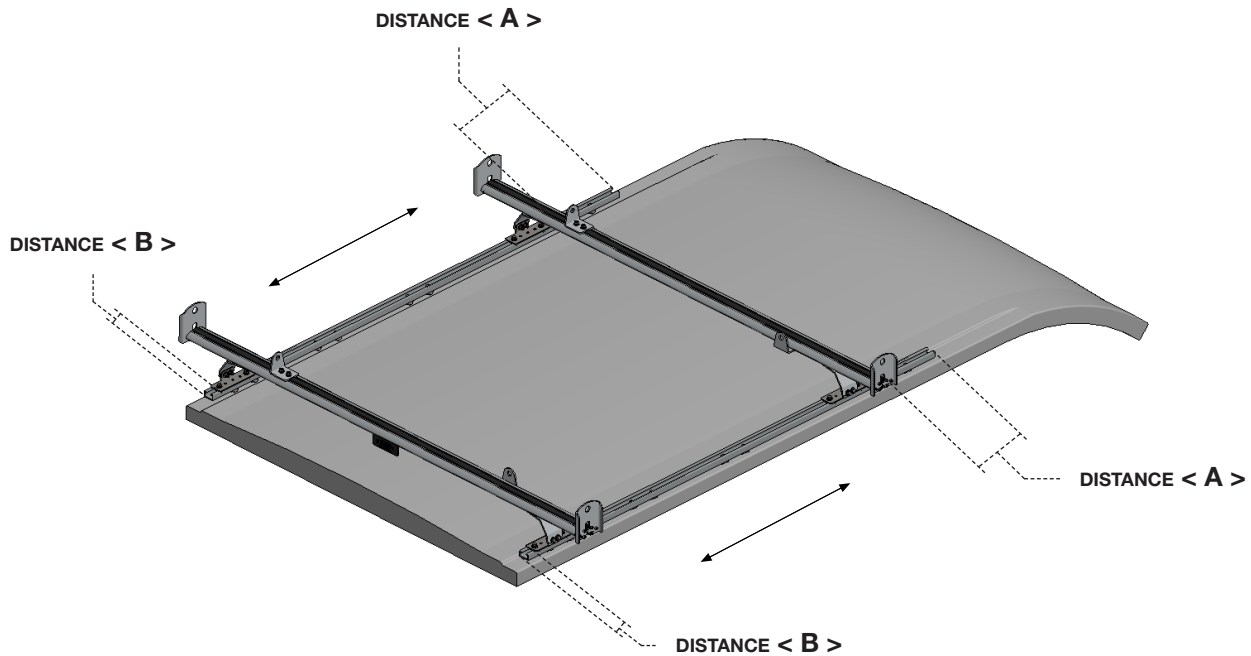
### Cargo Rack





- 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

8x



#90-209 Hex Bolt 5/16" × 1"



#98-123 Lock Washer



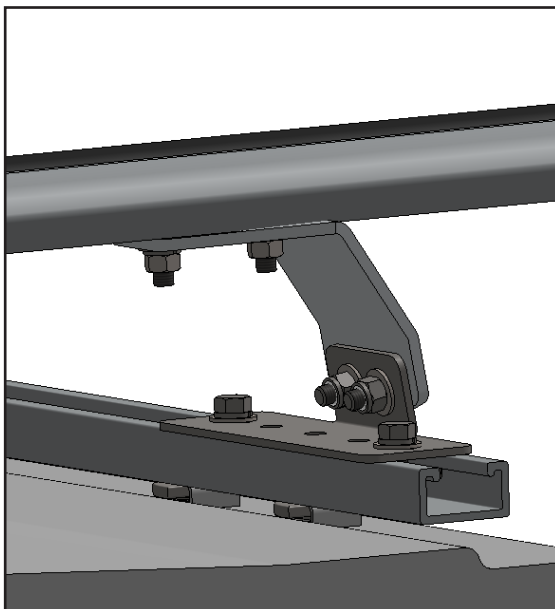
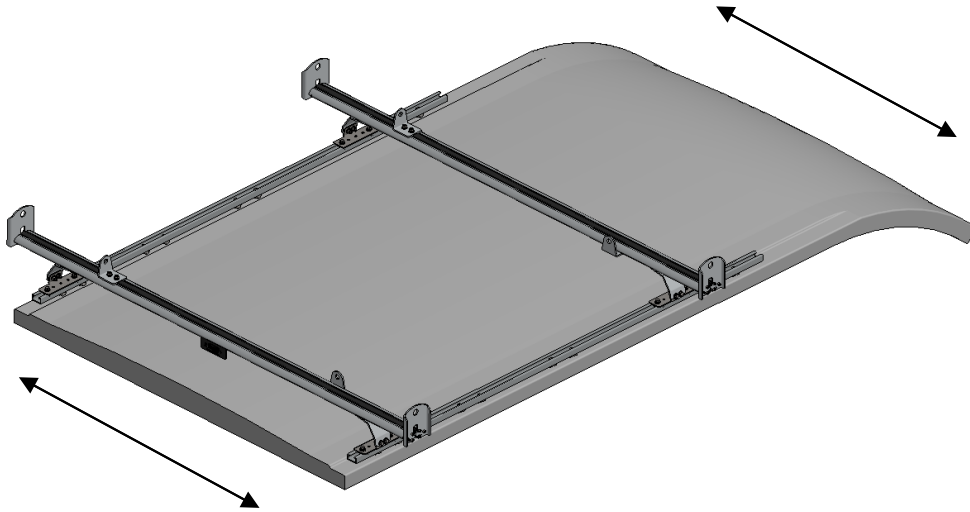
#98-117 Flat Washer



#94-150 Channel Nut

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

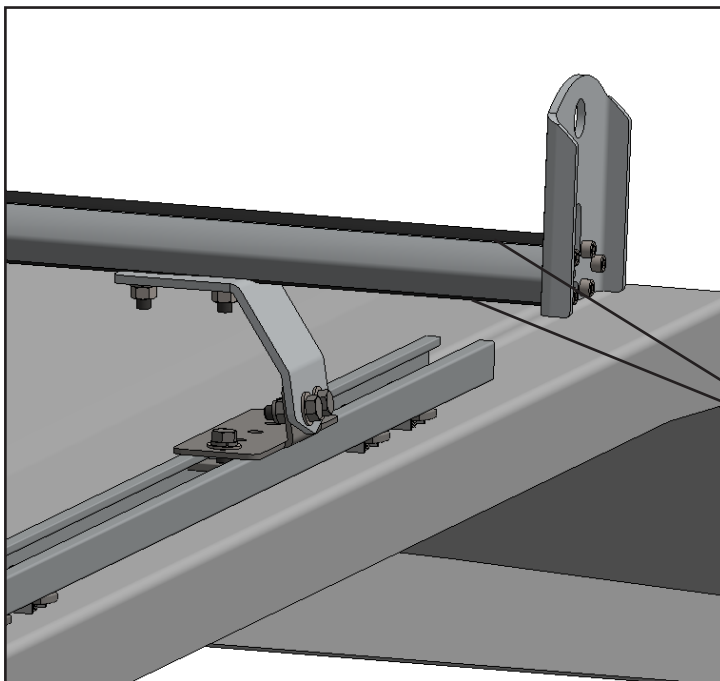
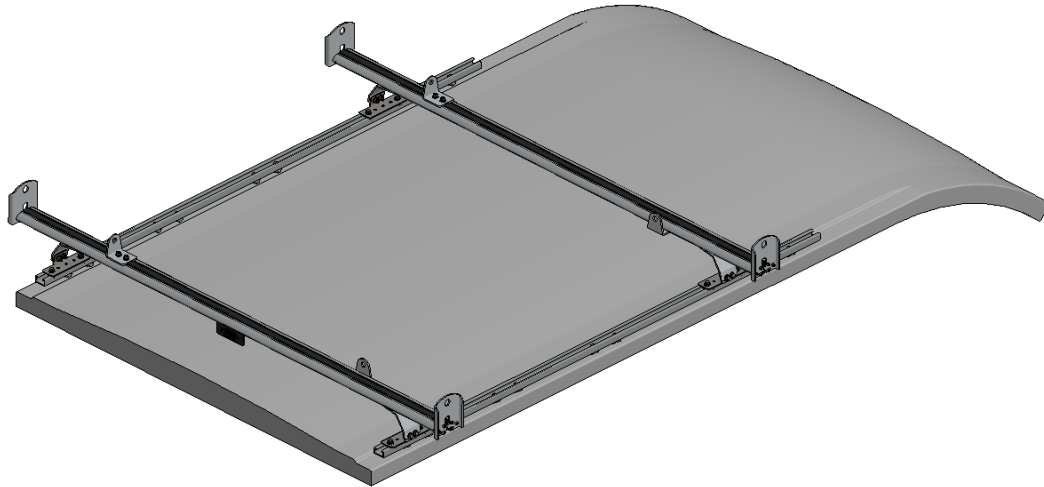
**IMPORTANT:** Place the cargo rack warning label on a visible area, recommended on a partition.



**TOOLS**

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

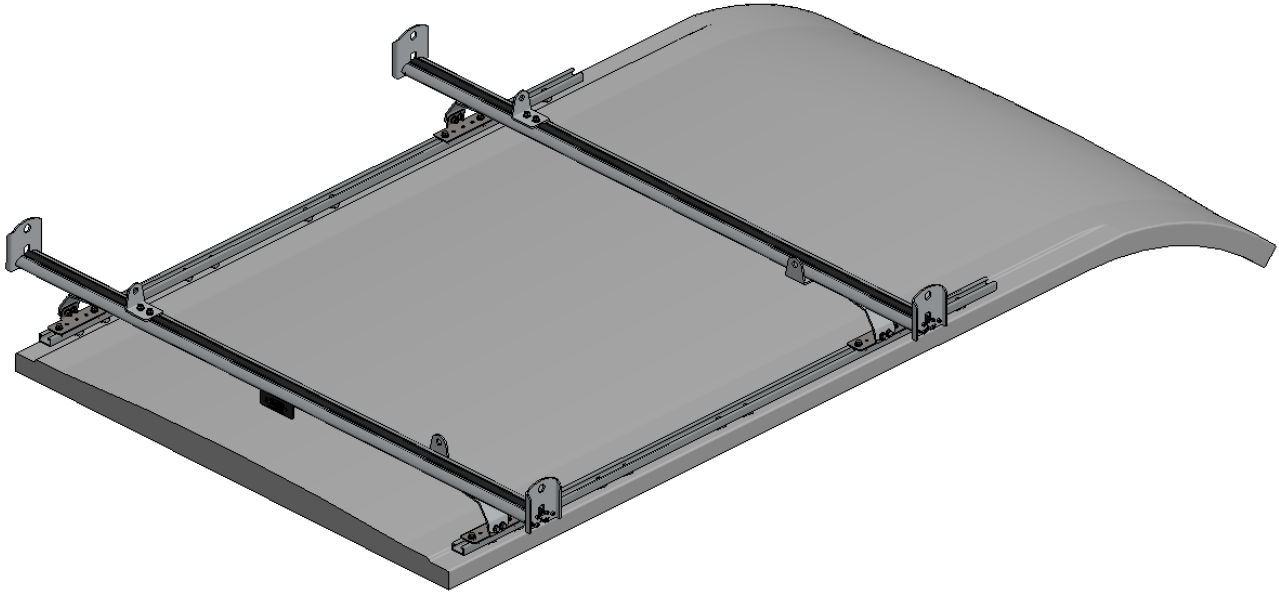
- 2.2.4** After installation is complete, cut the track plug underneath the front crossbar to fill all the unused space. Failure to do so will result in excessive wind noise.



**TOOLS**

- Cutter

**TRACK PLUG**



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

**Thank you for doing business with us.”**

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# INSTALLATION GUIDE

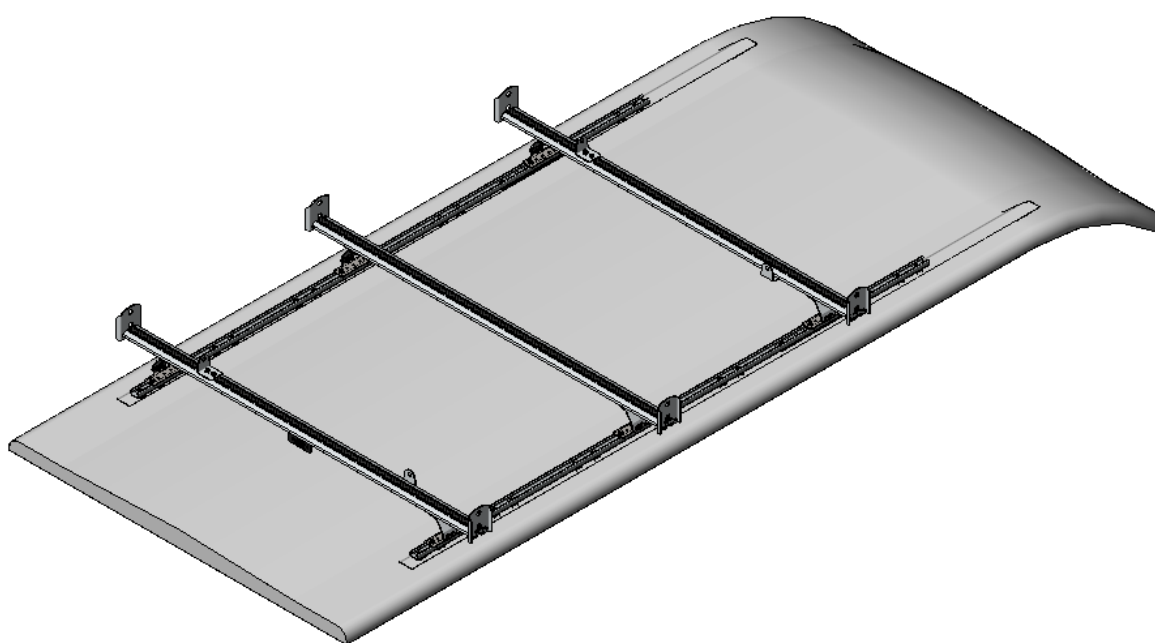


## 15-U0525 THIRD CROSSBAR

Nissan NV 140" Wheelbase Low Roof & High Roof  
Long Ford Transit 148" and 148" Ext Wheelbase  
Regular Ford Transit 130" Wheelbase



# CARGO RACK WITH THIRD CROSSBAR



# QUICK START GUIDE

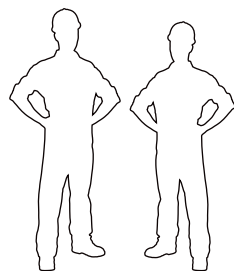
## Phase 1 - Assembly

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

## Phase 2 - Installation

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

# REQUIRED ITEMS



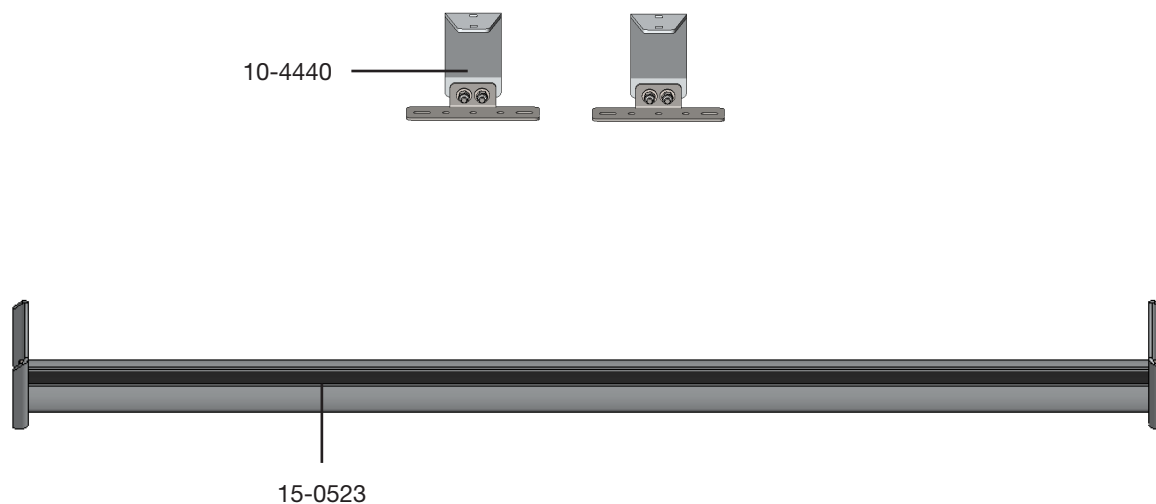
**2  
PERSONS**

- ❑ Cordless Impact
- ❑ Ratchet
- ❑ Tape Measure
- ❑ Marker
- ❑ Ladder
- ❑ Cutter
- ❑ 1/2" Socket
- ❑ 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	2
15-0523	Third Crossbar	1
94-1015	Assembly Fastener Kit	1
96-1021	Install Fastener Kit	1







1.1.3 Fastener kits.


94-1015 Fastener Kit





Fastener Assembly


- 4x  # 90-491 Carriage Bolt 5/16"-18 x 1" 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

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

 #98-117 Flat Washer

 #98-123 Lock Washer

 #94-105 Hex Nut


96-1021 Fastener Kit





Fastener Assembly


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

4x

 #90-209 Hex Bolt 5/16" x 1"

 #98-123 Lock Washer

 #98-117 Flat Washer

 #94-150 Channel Nut

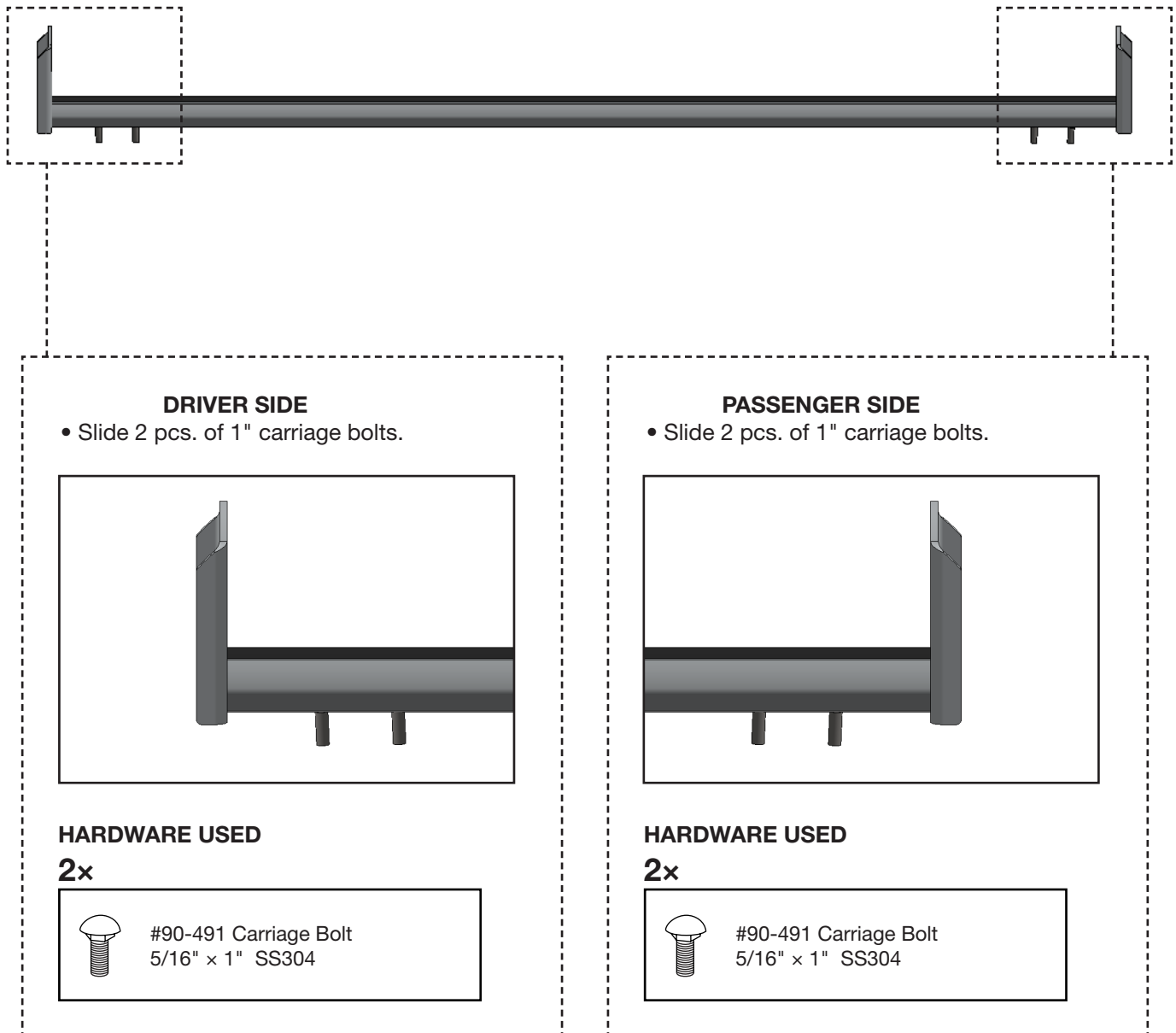
# PHASE 1 – ASSEMBLY

## 1.2 THIRD CROSSBAR ASSEMBLY

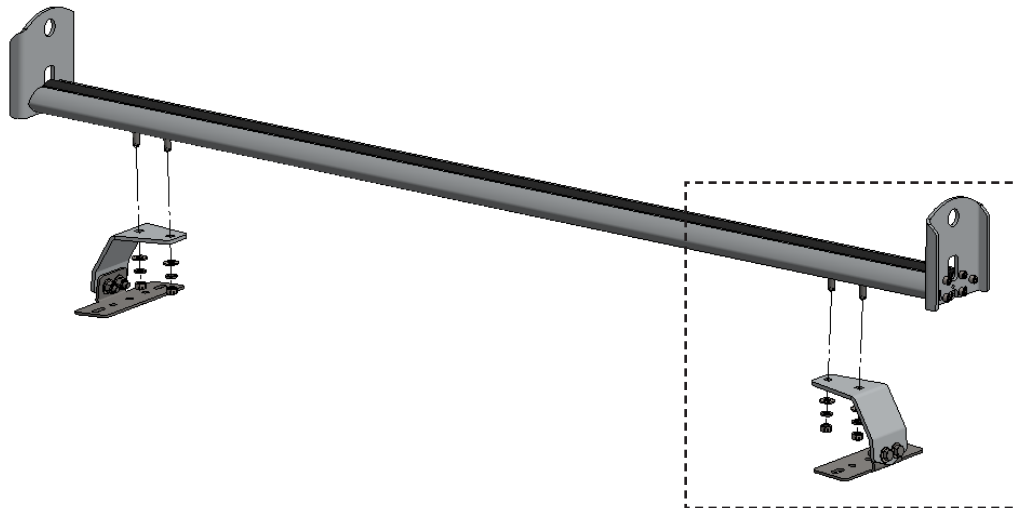
**1.2.1** Slide carriage bolts on the bottom face of the crossbar.

**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 crossbows.



#98-117 Flat Washer



#98-123 Lock Washer

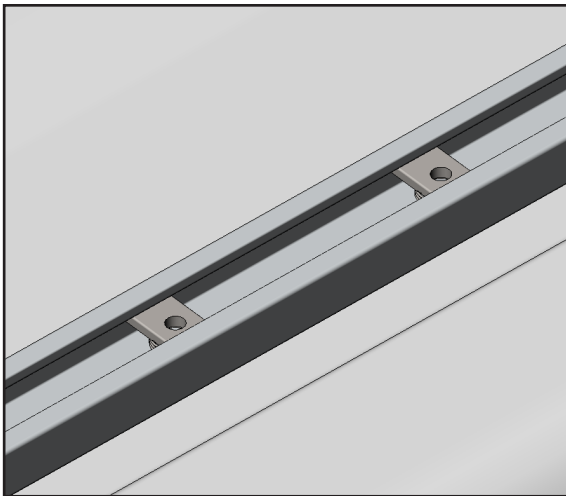
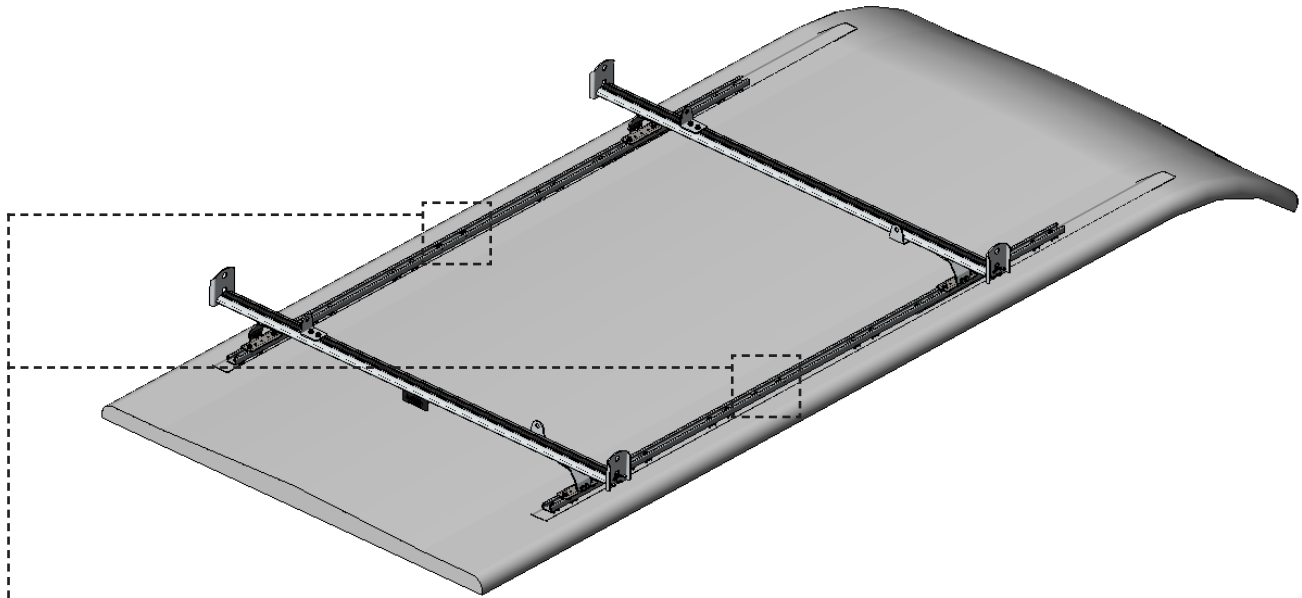


#94-105 Hex Nut

# PHASE 2 – INSTALLATION

## 2.1 CHANNEL NUT INSTALLATION

**2.1.1** Attach two channel nuts on each mounting track.



### HARDWARE USED

**4x**



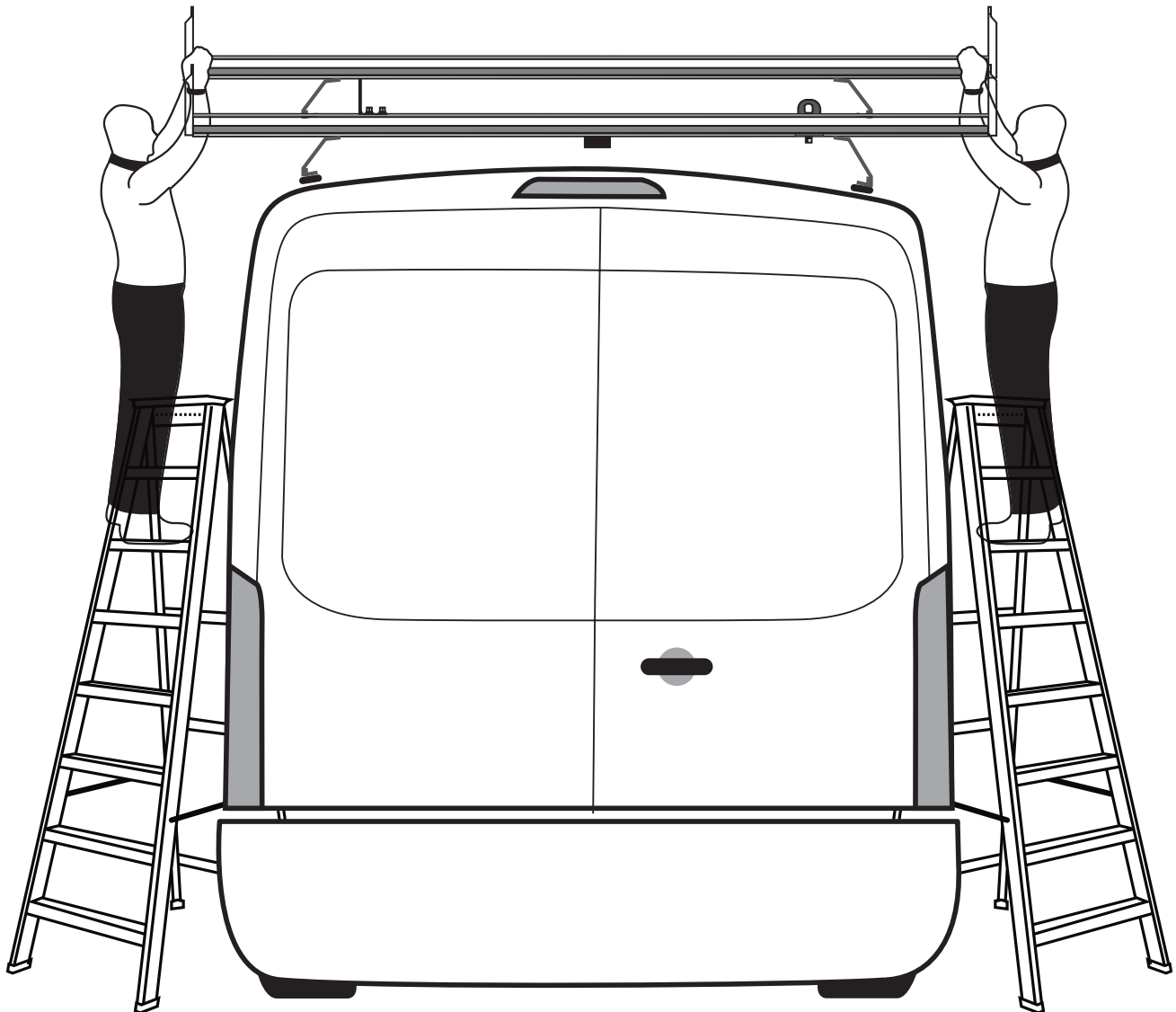
#94-150 Channel Nut

# PHASE 2 – INSTALLATION

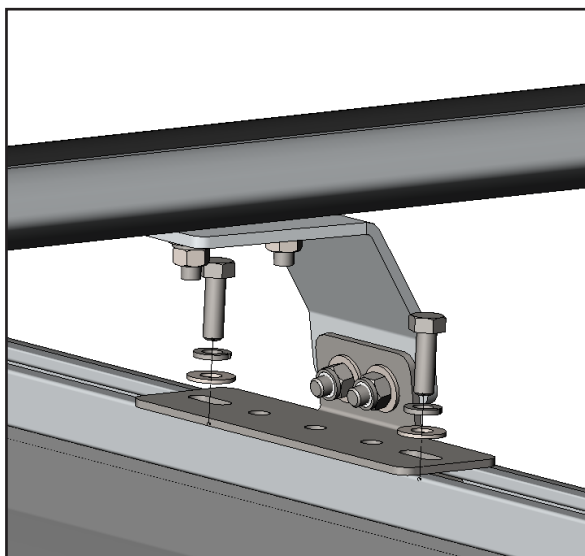
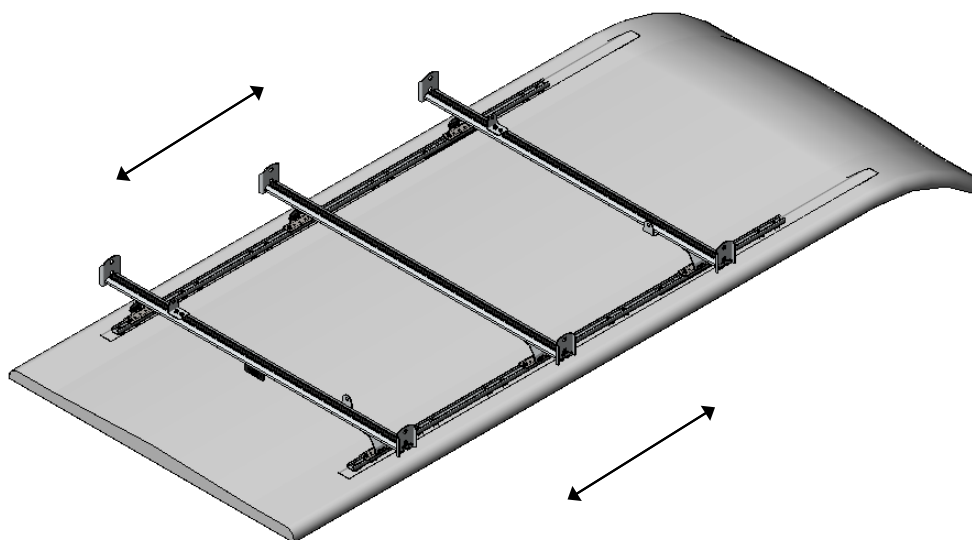
## 2.2 THIRD CROSSBAR INSTALLATION

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

### Ladder Rack



**2.2.2** While making sure that the third crossbar are parallel to the front and rear crossbars, place the crossbar in the appropriate position, then attach the feet to the mounting track.







#### TOOLS

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

#### FASTENERS USED

**4x**

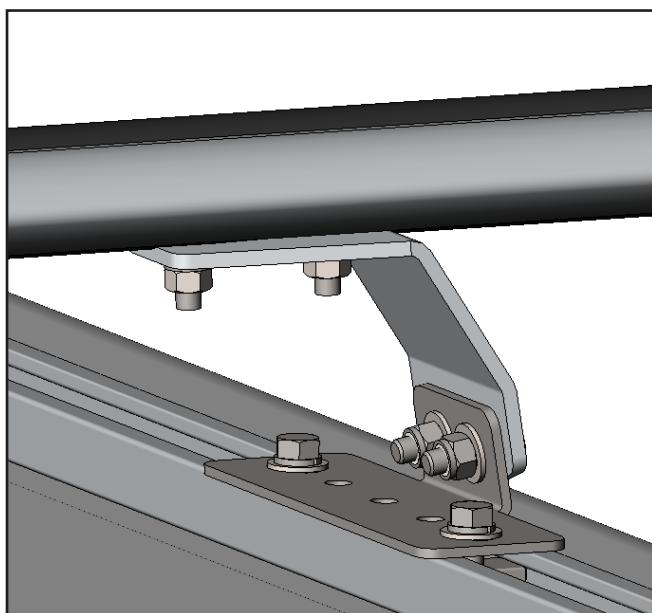
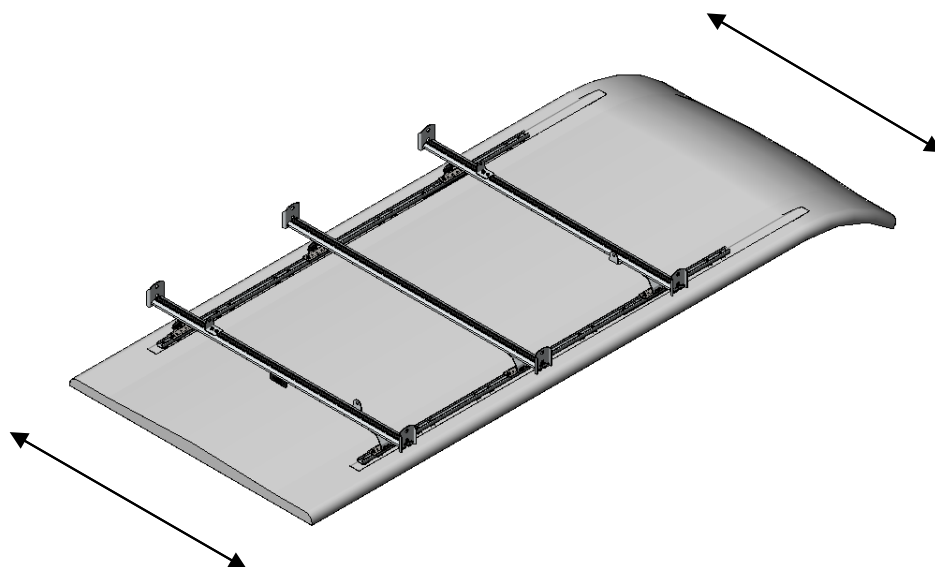
- |   |                             |
|---|-----------------------------|
|  | #90-209 Hex Bolt 5/16" x 1" |
|  | #98-123 Lock Washer         |
|  | #98-117 Flat Washer         |
|  | #94-150 Channel Nut         |

**2.2.3** Center the crossbar on the vehicle, then tighten the “C” feet to the crossbar.

**NOTE:**

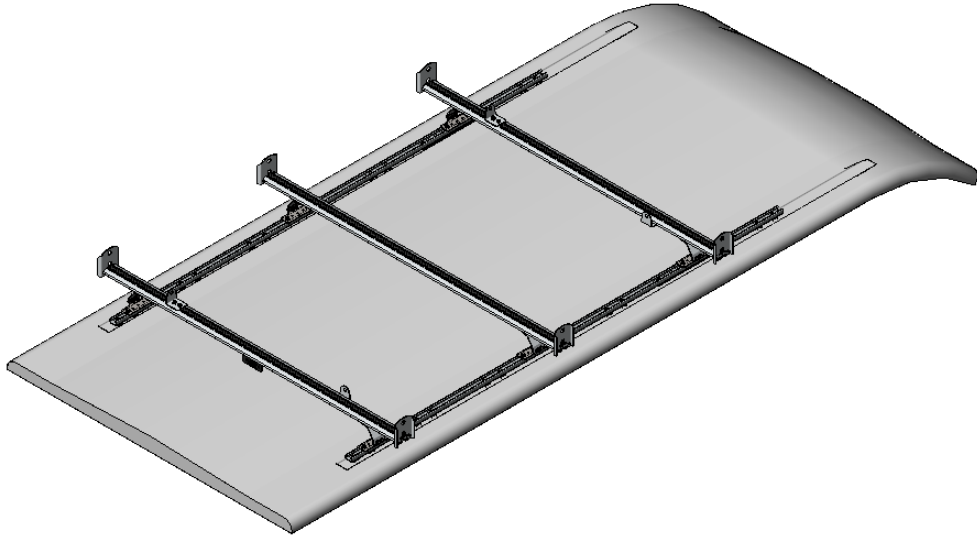
- The ladder cannot extend beyond the rear bumper of the vehicle.
- The center of the ladder must be behind the front crossbar when the ladder is loaded.

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



**TOOLS**

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



**“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)

