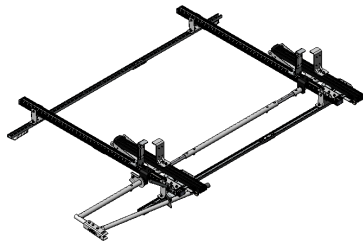
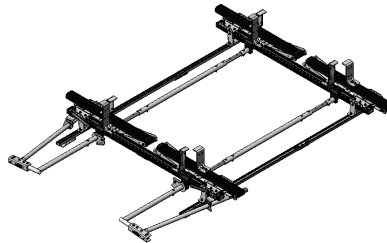


INSTALLATION GUIDE

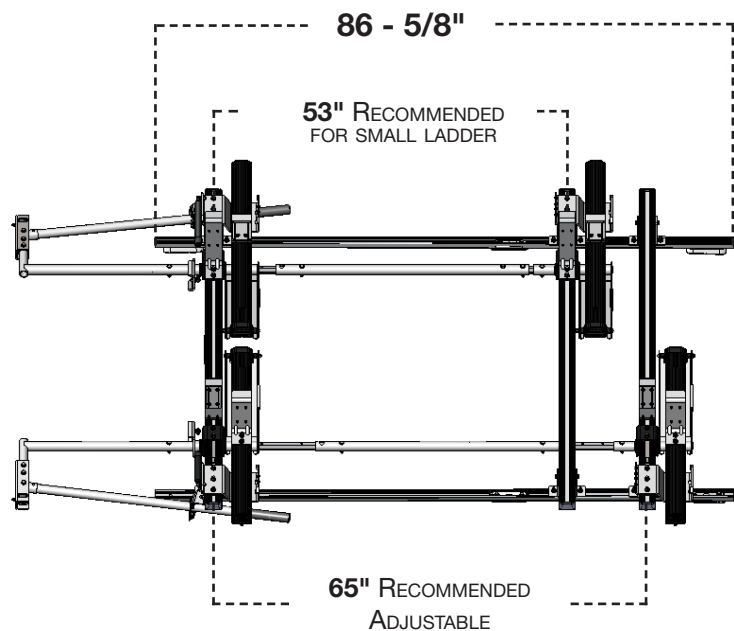
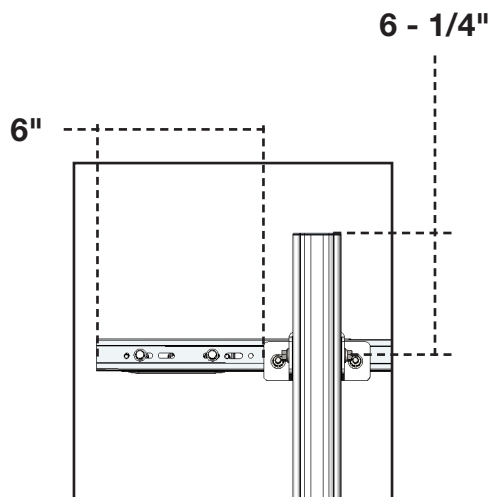
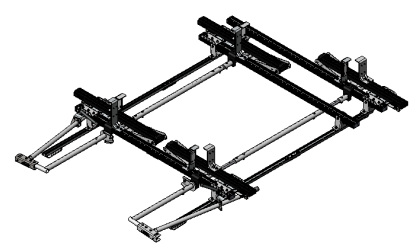
1840-MM



1850-MM

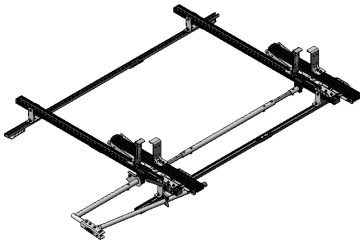


1850-MM3

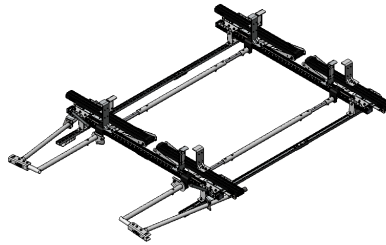


1840-MM OR 1850-MM OR 1850-MM3 MAX RACK LOW ROOF
MERCEDES METRIS

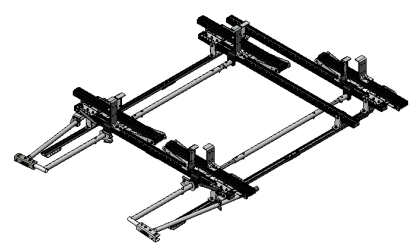
1840-MM



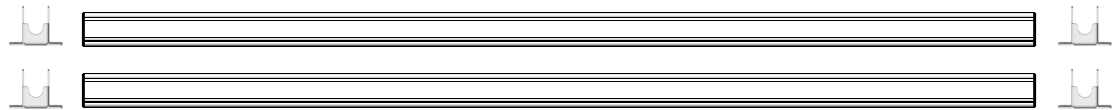
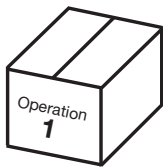
1850-MM



1850-MM3

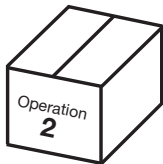


16-UCD66

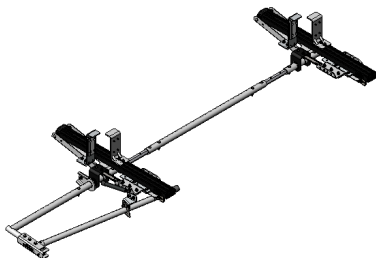
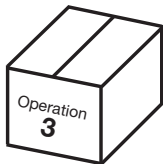


Applicable only for Max Rack Double Side (1850-MM3).

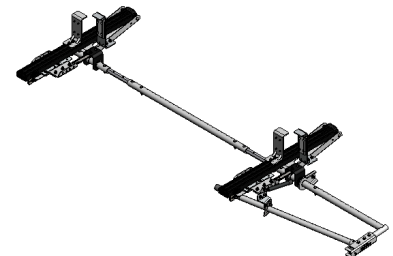
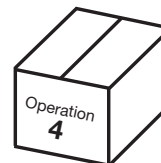
16-UCS66



18-U1820

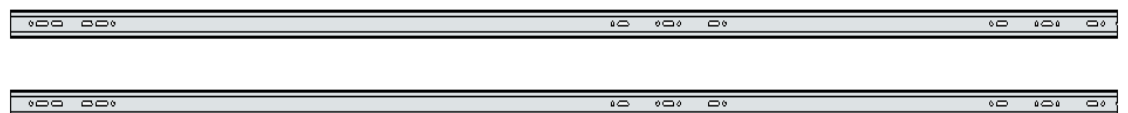
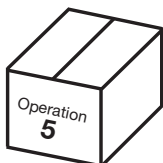


18-U1825

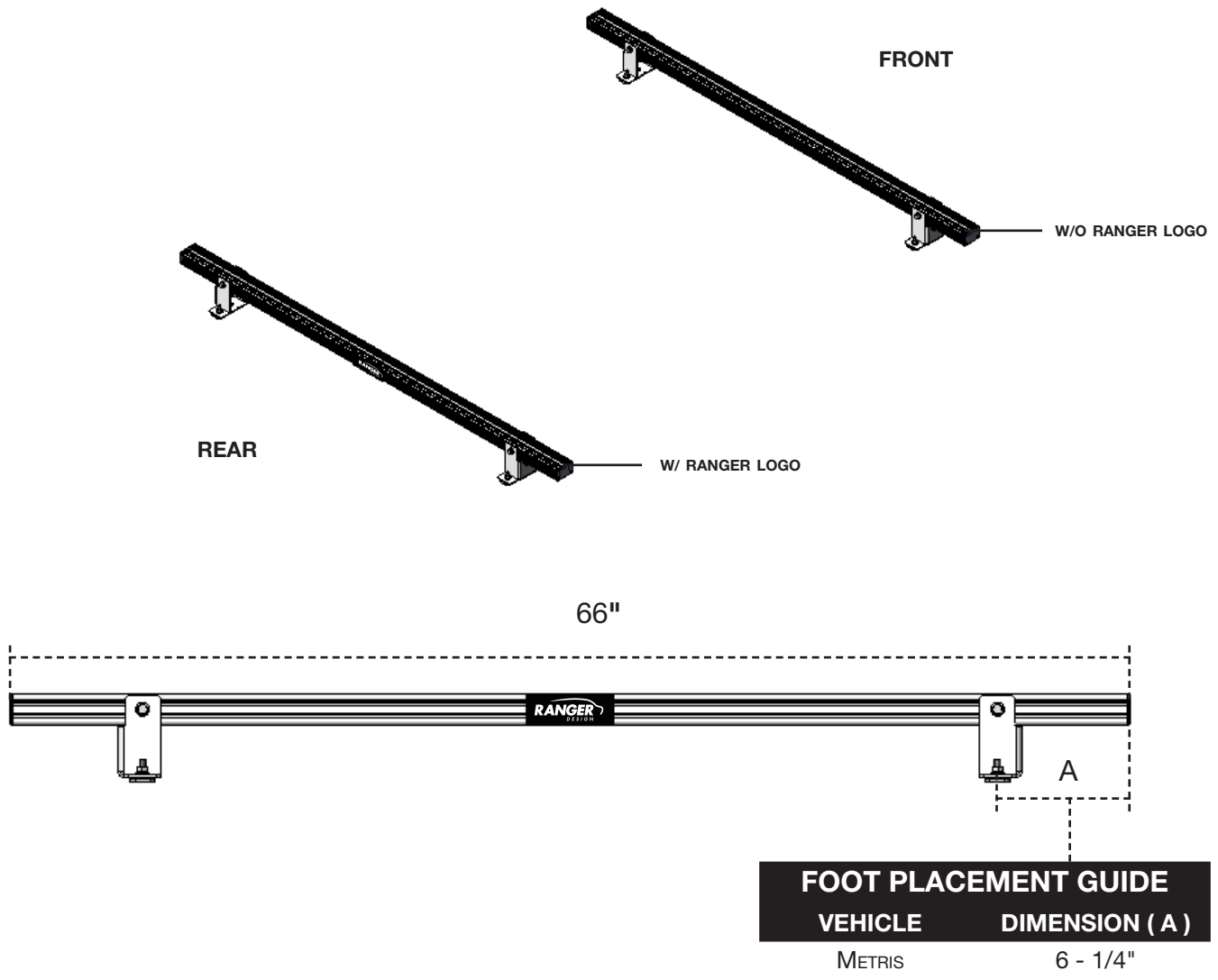


Applicable only for Max Rack Double Side (1850-MM and 1850-MM3).

18-U0045



INSTALLATION GUIDE



16-UCD66 Crossbar

2 BARS (66")



QUICK START GUIDE

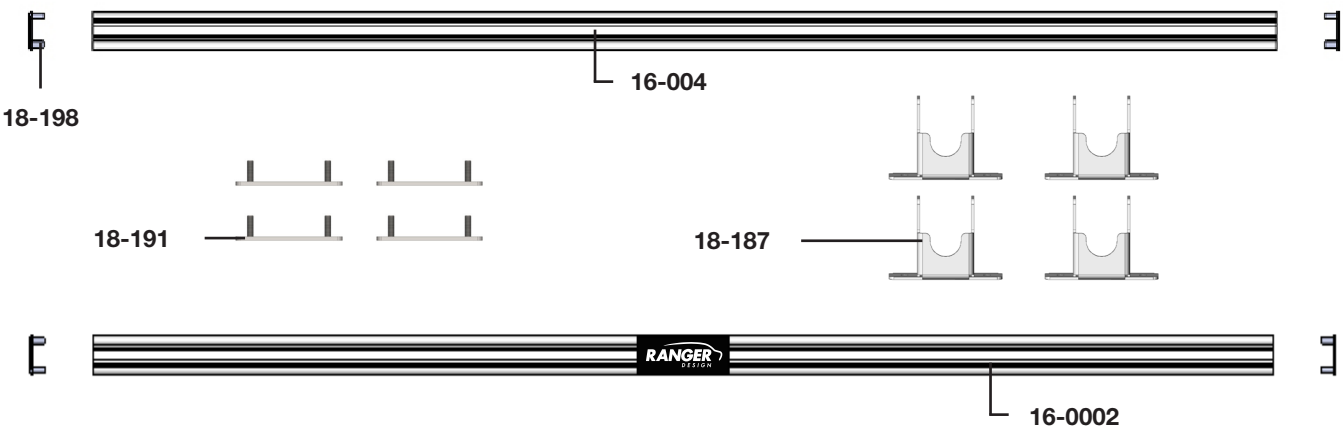
Phase 1 - Assembly

❑ 1.1.1 SETUP (VERIFY ALL PARTS ARE PRESENT).....	2
❑ 1.2.1 ASSEMBLY (PUT THE CROSSBAR IN THE TABLE).....	3

PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Verify all parts are present.



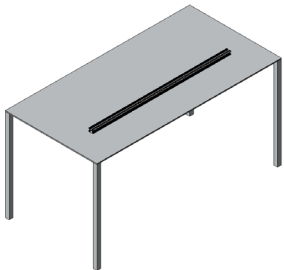
BILL OF MATERIALS

Item No.	Description	Qty.
18-187	Foot	4
16-004	Crossbar 66"	1
16-0002	Crossbar 66" w/ Ranger Logo	1
18-198	End Plastic Plug	4
18-191	Stud Plate	4
94-1806	Fastener kit	1

PHASE 1 – ASSEMBLY

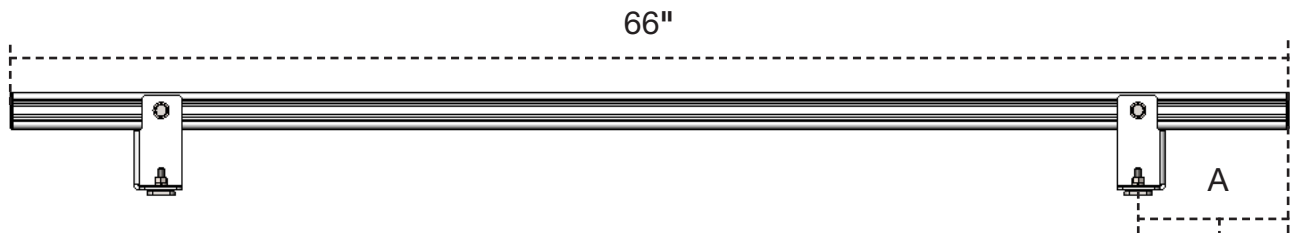
1.2 PREPARATION

1.2.1 Remove one crossbar from the box and put the crossbar on the table.



NOTE:
OPEN THE NEXT BOX AND FOLLOW THE INSTALL GUIDE
INSIDE THE BOX ON HOW TO ASSEMBLED YOU RACK.

INSTALLATION GUIDE



FOOT PLACEMENT GUIDE	
VEHICLE	DIMENSION (A)
METRIS	6 - 1/4"

16-UCS66 Crossbar

1 BAR (66")



QUICK START GUIDE

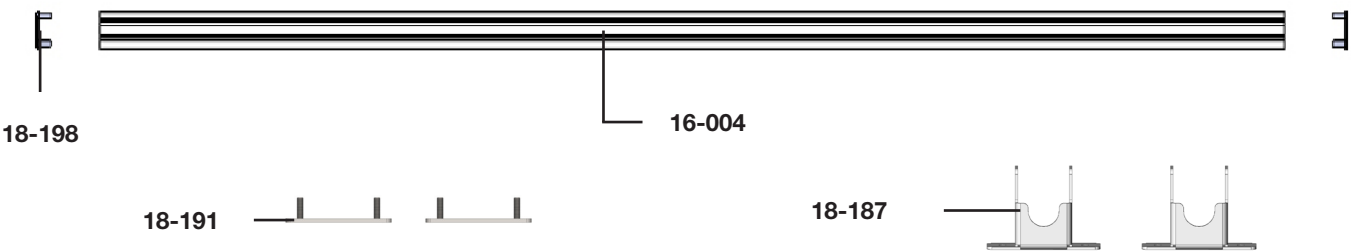
Phase 1 - Assembly

❑ 1.1.1 SETUP (VERIFY ALL PARTS ARE PRESENT).....	2
❑ 1.2.1 ASSEMBLY (PUT THE CROSSBAR IN THE TABLE).....	3

PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Verify all parts are present.



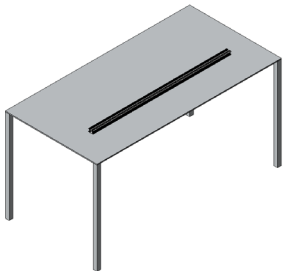
BILL OF MATERIALS

Item No.	Description	Qty.
18-187	Foot	2
16-004	Crossbar 66"	1
18-198	End Plastic Plug	2
18-191	Stud Plate	2
96-1805	Fastener kit	1

PHASE 1 – ASSEMBLY

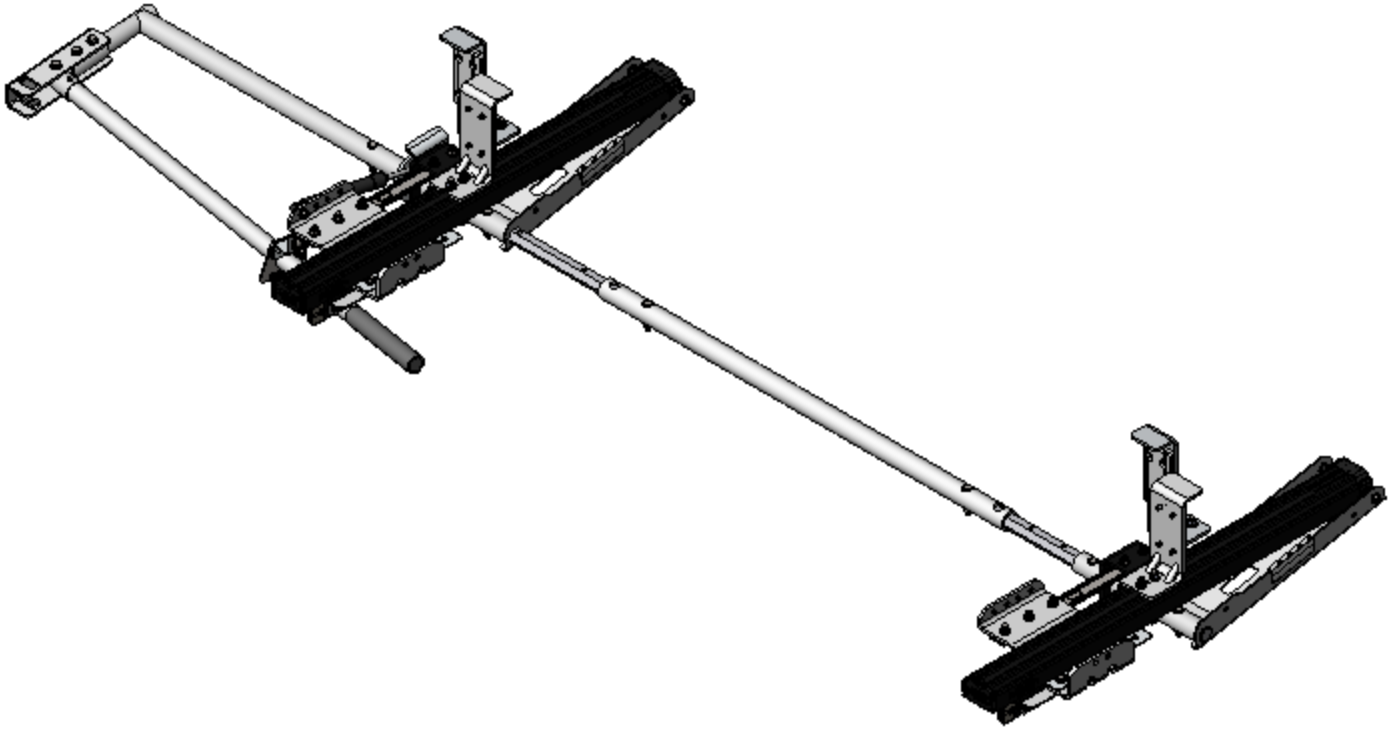
1.2 PREPARATION

1.2.1 Remove crossbar from the box and put the crossbar on the table.



NOTE:
OPEN THE NEXT BOX AND FOLLOW THE INSTALL GUIDE
INSIDE THE BOX ON HOW TO ASSEMBLED YOU RACK.

INSTALLATION GUIDE



18-U1820 Low Roof Max Rack

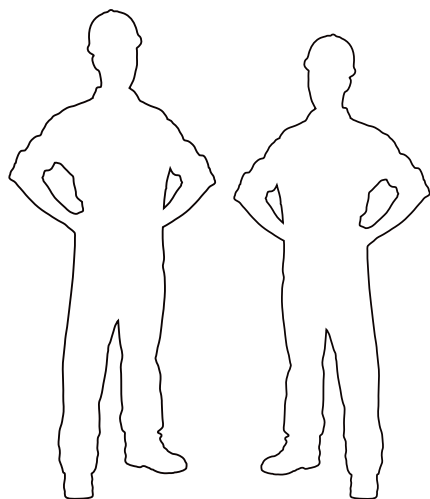
Passenger Side



QUICK START GUIDE

Phase 1 - Assembly

❑ 1.1 SETUP (VERIFY ALL PARTS ARE PRESENT).....	2 - 4
❑ 1.2 ASSEMBLY (CROSSBAR ASSEMBLY).....	5 - 15
❑ 1.2 ASSEMBLY (ATTACH CROSSBAR TO THE MOUNTING TRACK).....	16



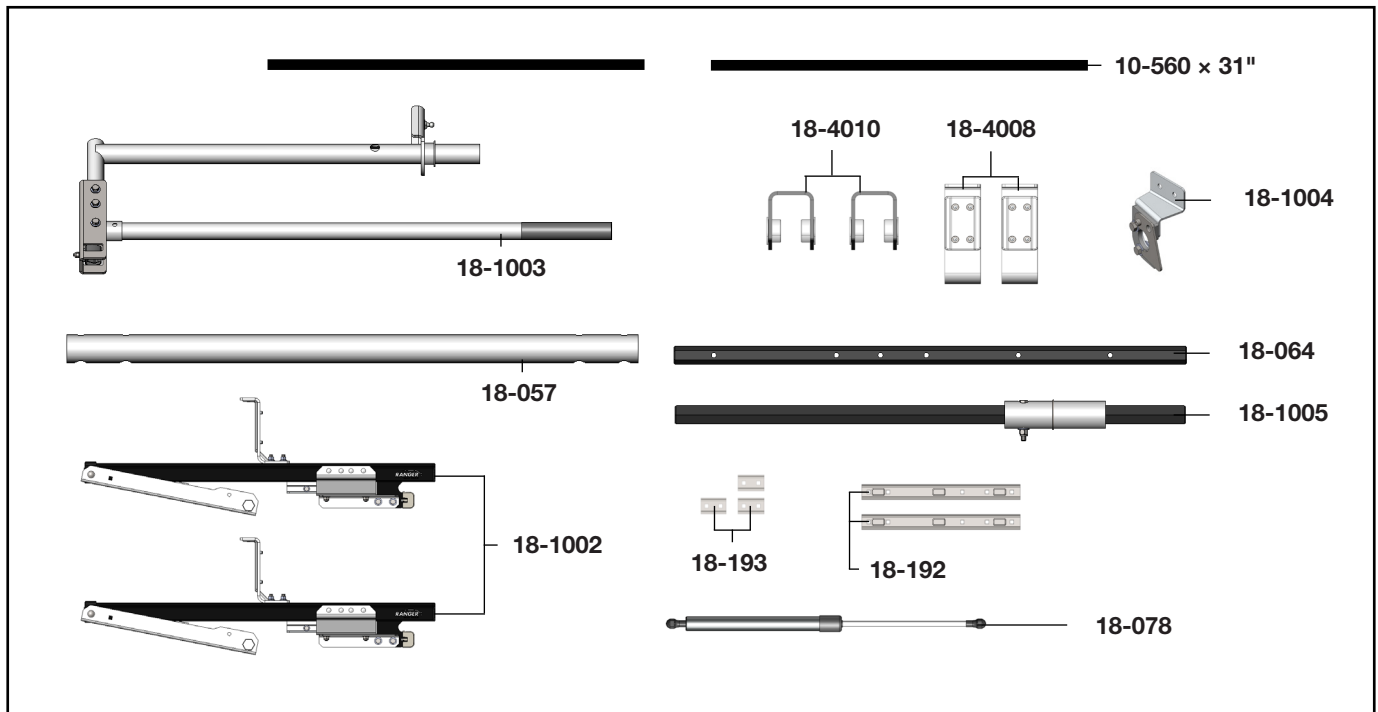
2
PERSONS

- ❑ Ratchet
- ❑ Tape Measure
- ❑ Marker
- ❑ Ladder
- ❑ Mallet
- ❑ Cutter
- ❑ 1/2" Wrench
- ❑ 1/2" Socket
- ❑ Sawhorse (Optional)
- ❑ Box
- ❑ 1/8" Slot Screwdriver or Pick

PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Verify all parts are present.



VERIFY ALL PARTS ARE PRESENT

Item No.	Description	Qty.
18-057	Center Tube	1
18-064	Hex Shaft	1
18-078	Low Roof Damper	1
18-192	Insert Plate, 5 Bolts	2
18-193	Insert Plate, 2 Bolts	3
18-1002	Passenger Side Mechanism	2
18-1003	Passenger Side Handle	1
18-1004	Passenger Side Clamp	1
18-1005	Front Hex Bar	1
18-4008	Tall Hook	2
18-4010	Shaft Support Bracket	2
10-560 x 31"	Track Plug (31")	2
94-0820	Fastener Kit	1

1.1.3 Fastener kits.

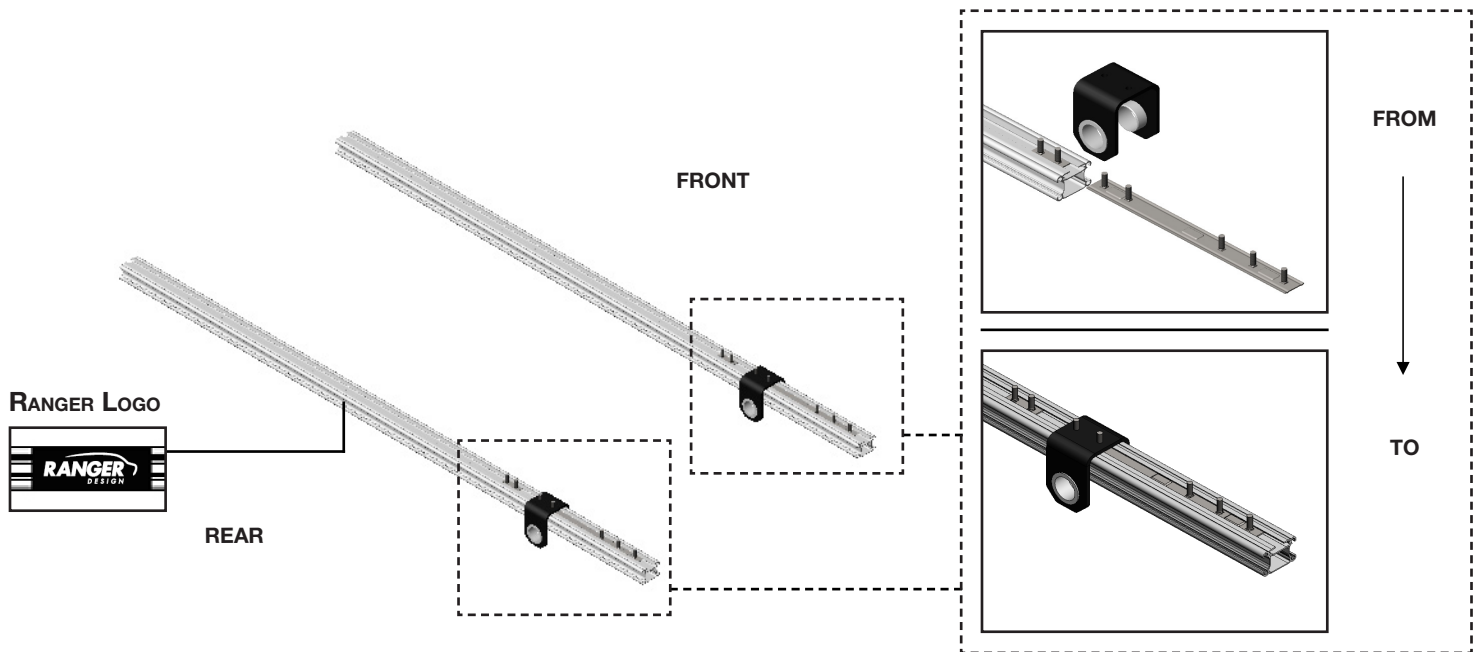
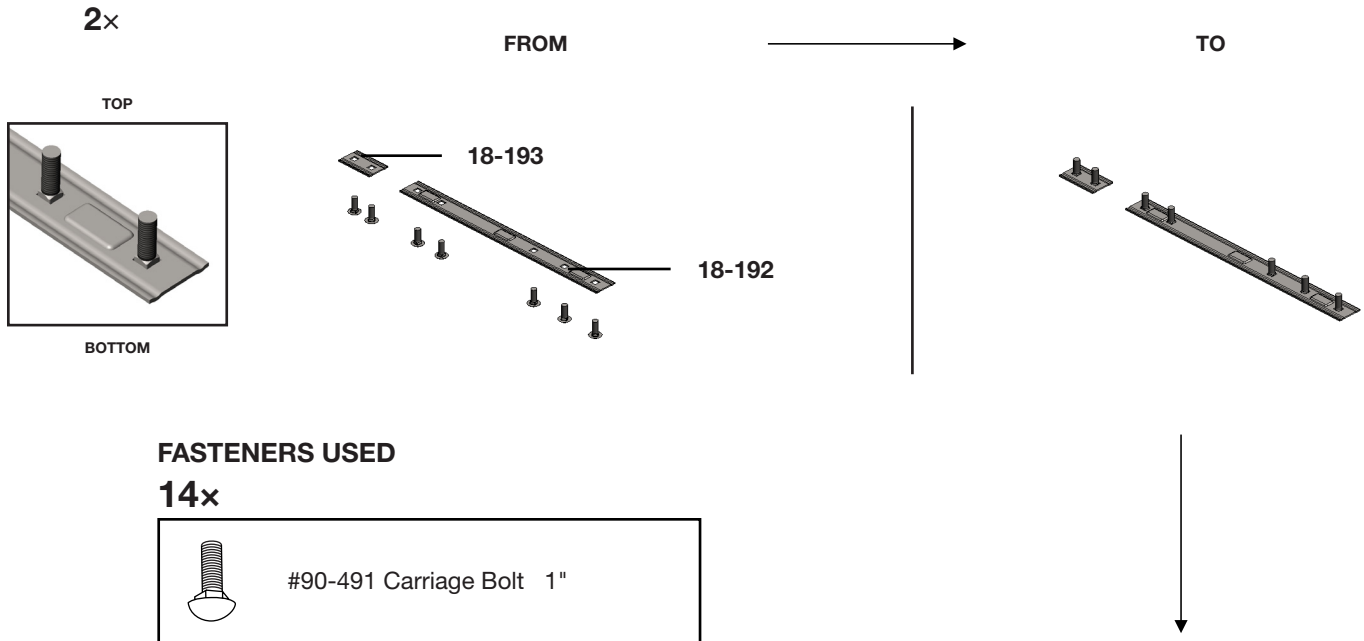
94-0820			Fastener Assembly	
1x		# 40-665	Ball Stud 3/4" Zinc Plated	1x
5x		# 90-225	Hex Bolt 5/16" - 18 x 2" SS304	 #40-665 Ball Stud 3/4"  #98-117 Flat Washer 5/16"  #98-117 Flat Washer 5/16"  #94-111 Lock Nut 5/16"
16x		# 90-491	Carriage Bolt 5/16" - 18 x 1" SS304	5x
18x		# 94-111	Lock Nut 5/16" SS304 WAX	 #90-225 Hex Bolt 2"  #98-117 Flat Washer 5/16"  #98-117 Flat Washer 5/16"  #94-111 Lock Nut 5/16"
4x		# 94-105	Hex Nut 5/16" SS304 WAX	12x
28x		# 98-117	Flat Washer 5/16", 3/4" O.D. SS18 - 8	 #90-491 Carriage Bolt 1"  #98-117 Flat Washer 5/16"  #94-111 Lock Nut 5/16"
4x		# 98-123	Lock Washer 5/16" SS304	4x
				 #94-105 Hex Nut 5/16"  #98-123 Lock Washer 5/16"  #98-117 Flat Washer 5/16"  #90-491 Carriage Bolt 1"

PHASE 1 – ASSEMBLY

1.2 CROSSBAR ASSEMBLY

1.2.1 Slide the insert plate to the crossbar w/ shaft support bracket.

NOTE: The crossbar w/ Ranger logo should be the rear crossbar.

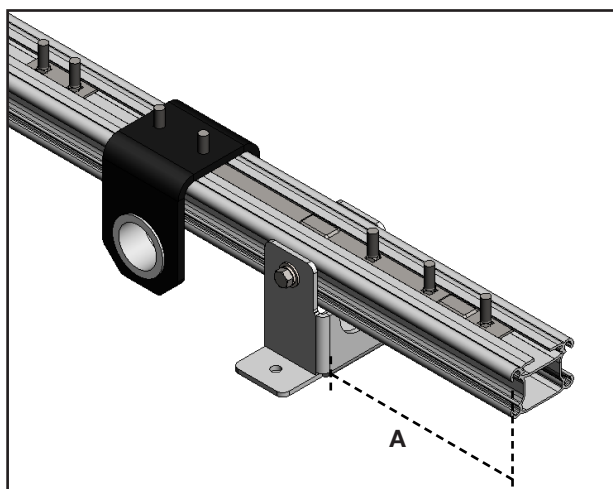
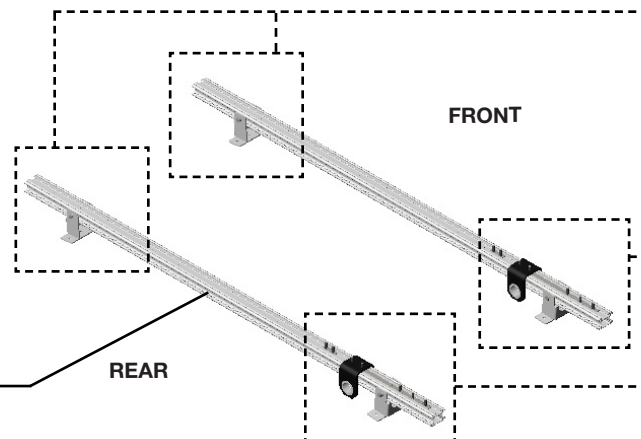


1.2.2 Attach 2 feet to each crossbar.

FOOT PLACEMENT GUIDE

VEHICLE	DIMENSION (A)
NISSAN NV	5 - 3/4"
SPRINTER	8 - 3/4" ^{HR} , 5 - 1/4" ^{LF}
TRANSIT	7 - 5/8"
PROMASTER	5 - 13/16"
METRIS	5"

RANGER LOGO



TOOLS

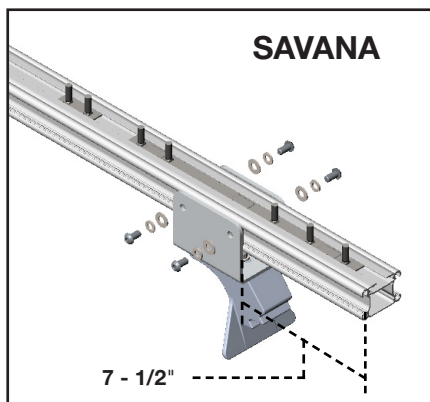
- ☐ Ratchet
- ☐ 1/2" Socket
- ☐ 1/8" Slot Screwdriver or Pick

FASTENERS USED

4x (CROSSBAR FASTENER KIT) (17 ft • lbs)



- #90-203 Hex Bolt 5/8"
- #98-123 Lock Washer 5/16"
- #98-117 Flat Washer 5/16"
- #94-250 Channel Nut 5/16"



TOOLS

- ☐ Ratchet
- ☐ 3/16" Hex Bit Socket

FASTENERS USED

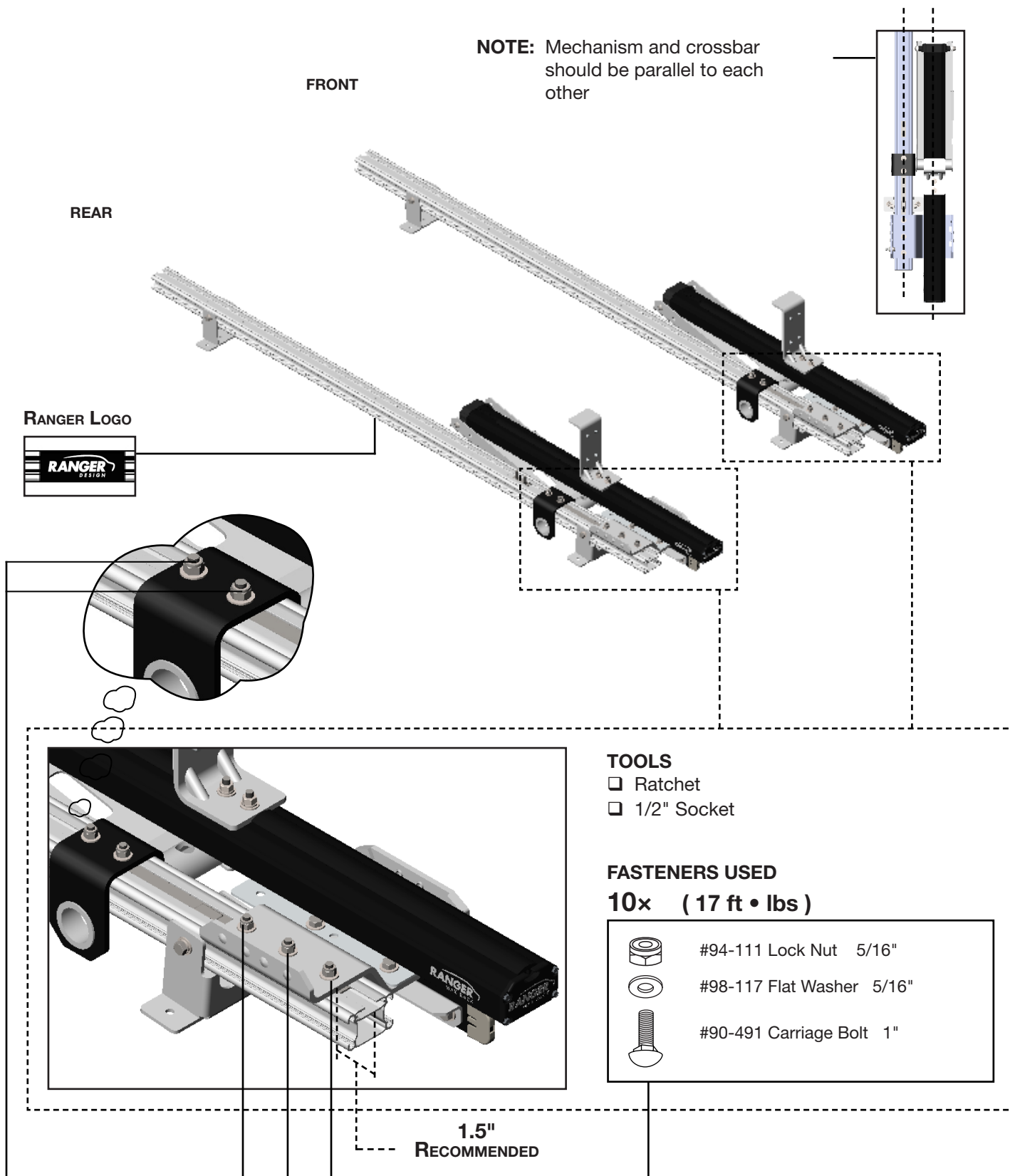
8x ONE CROSSBAR (17 ft • lbs)



- #90-979 Hex Drive Bolt 5/8"
- #98-123 Lock Washer 5/16"
- #98-117 Flat Washer 5/16"
- #94-250 Channel Nut 5/16"

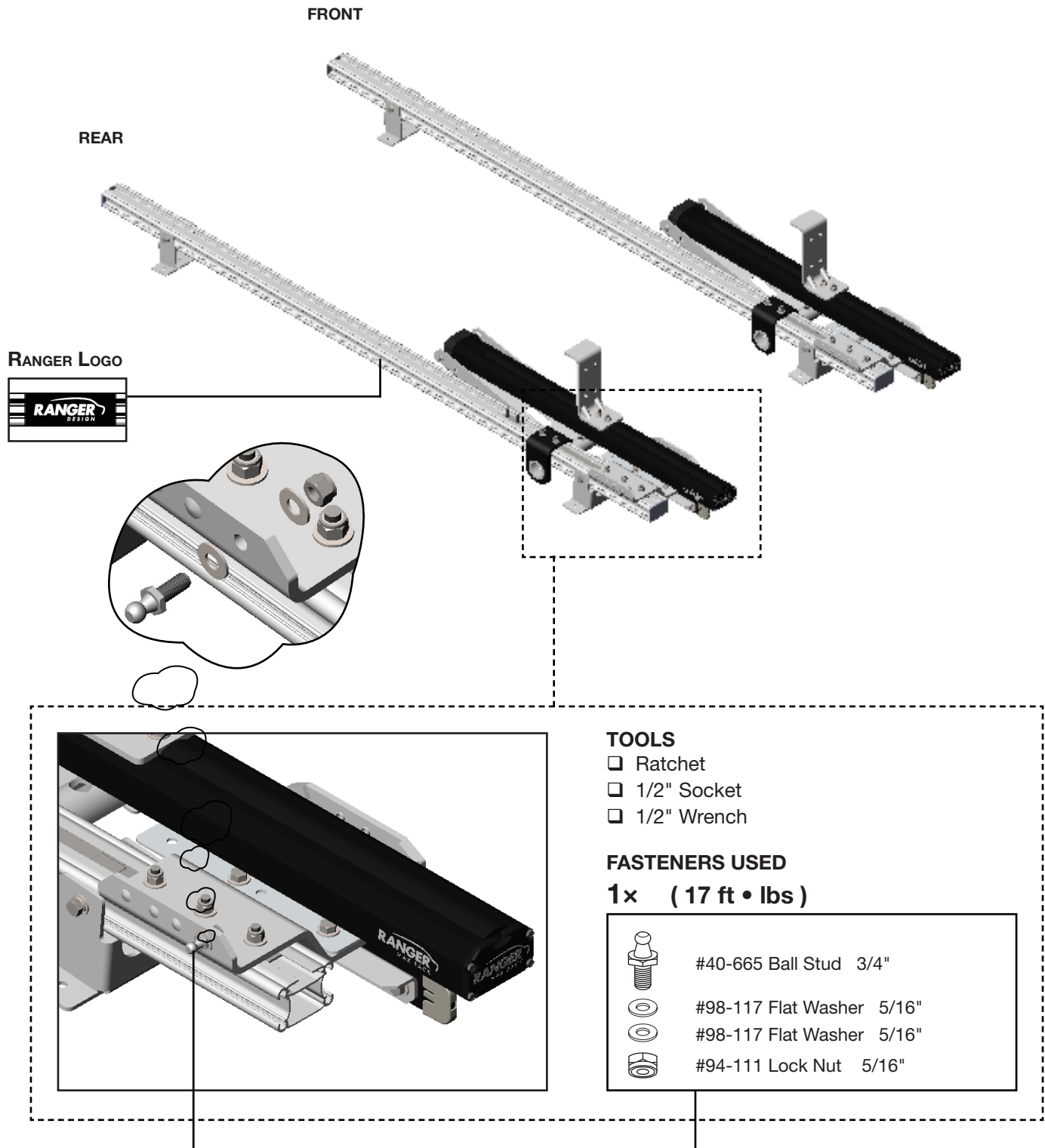
1.2.3 Attach the passenger side mechanism to the crossbar using the insert plate w/ 5 holes, then add flat washers and lock nuts to the shaft support bracket.

NOTE: Both front and rear mechanism are identical.



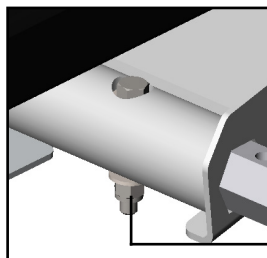
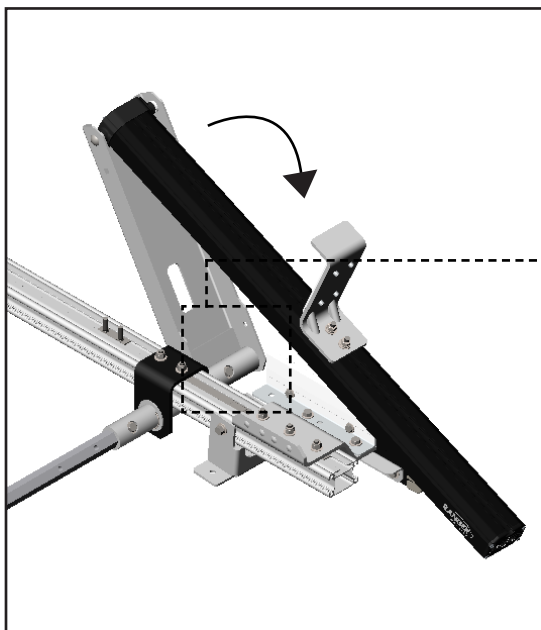
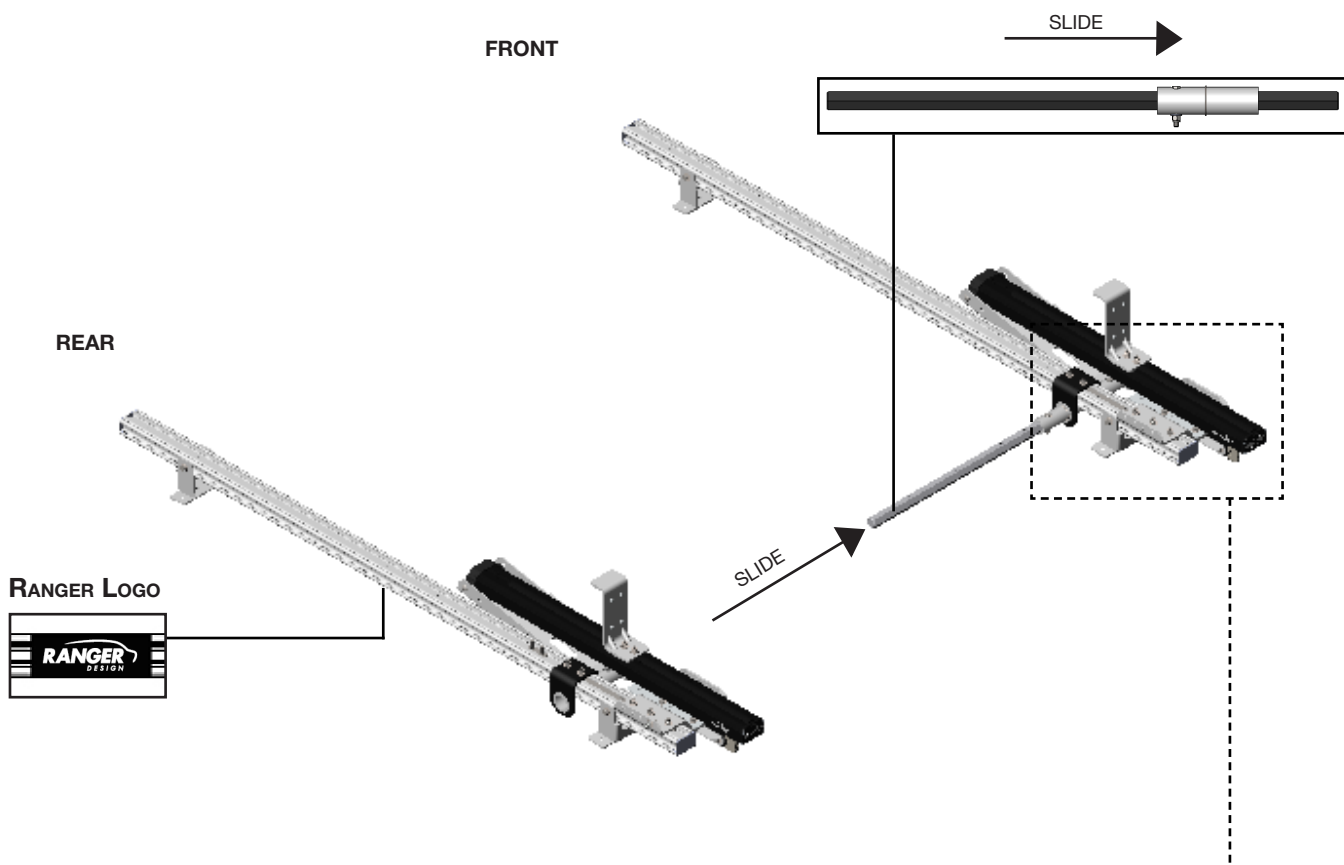
1.2.4 Remove the plastic plug, then attach ball stud to the rear mechanism frame.

NOTE: Attach ball stud in the rear mechanism only.



1.2.5 Slide the front hex bar through the shaft support bracket and arm, then attach the front hex bar to the arm.

NOTE: Line up the hole of the front pivot bar to the hole of the arm.

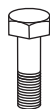


TOOLS

- ☐ Ratchet
- ☐ 1/2" Socket
- ☐ 1/2" Wrench

FASTENERS USED

1x (17 ft • lbs)



#90-225 Hex Bolt 2"



#98-117 Flat Washer 5/16"

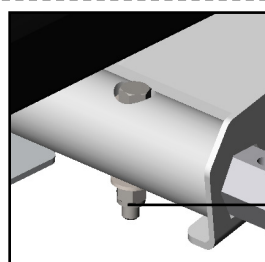
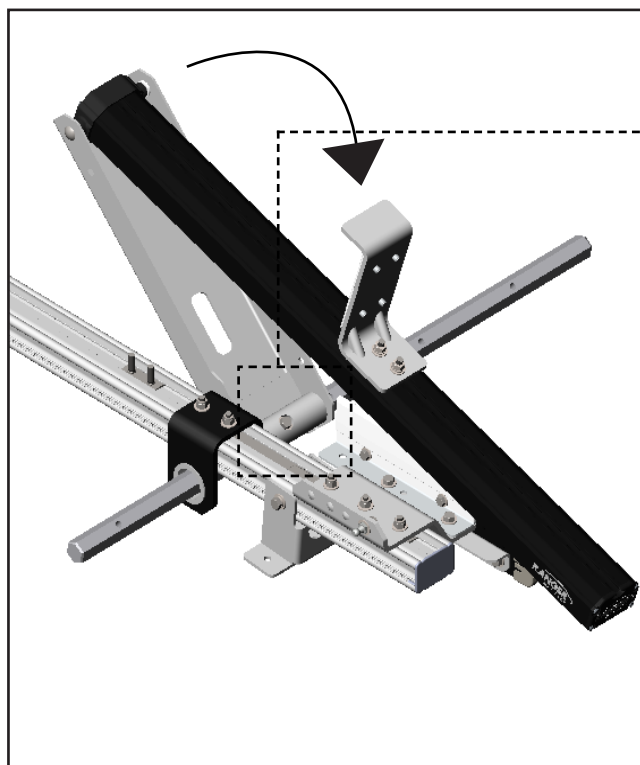
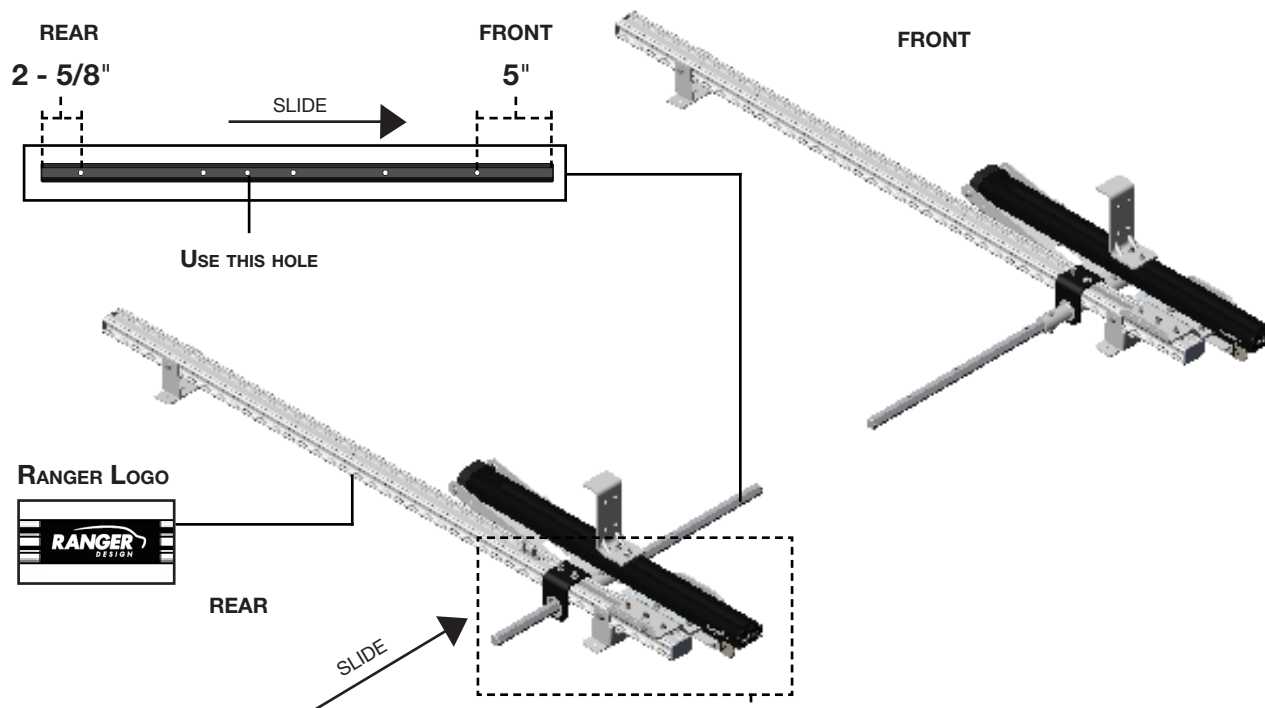


#98-117 Flat Washer 5/16"



#94-111 Lock Nut 5/16"

1.2.6 Slide the hex shaft through the arm and shaft support bracket, then attach the hex shaft to the arm.



TOOLS

- ☐ Ratchet
- ☐ 1/2" Socket
- ☐ 1/2" Wrench

FASTENERS USED

1x (17 ft • lbs)



#90-225 Hex Bolt 2"

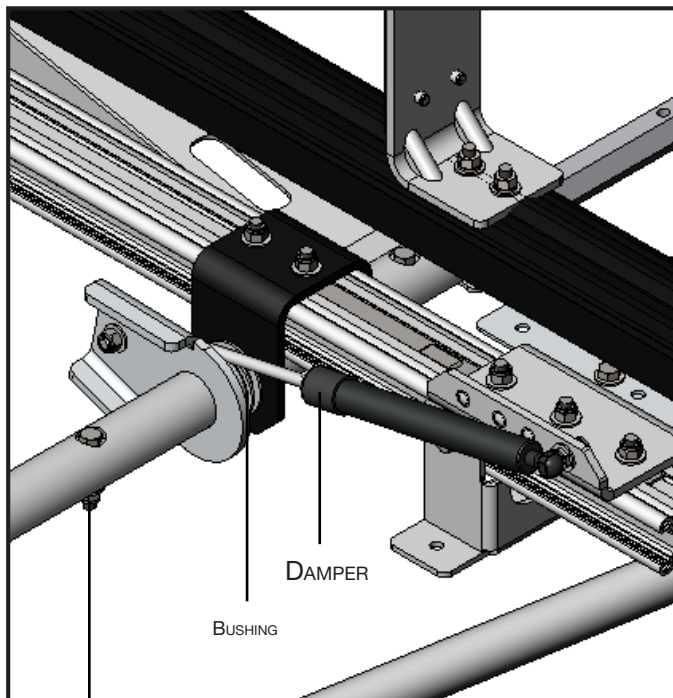
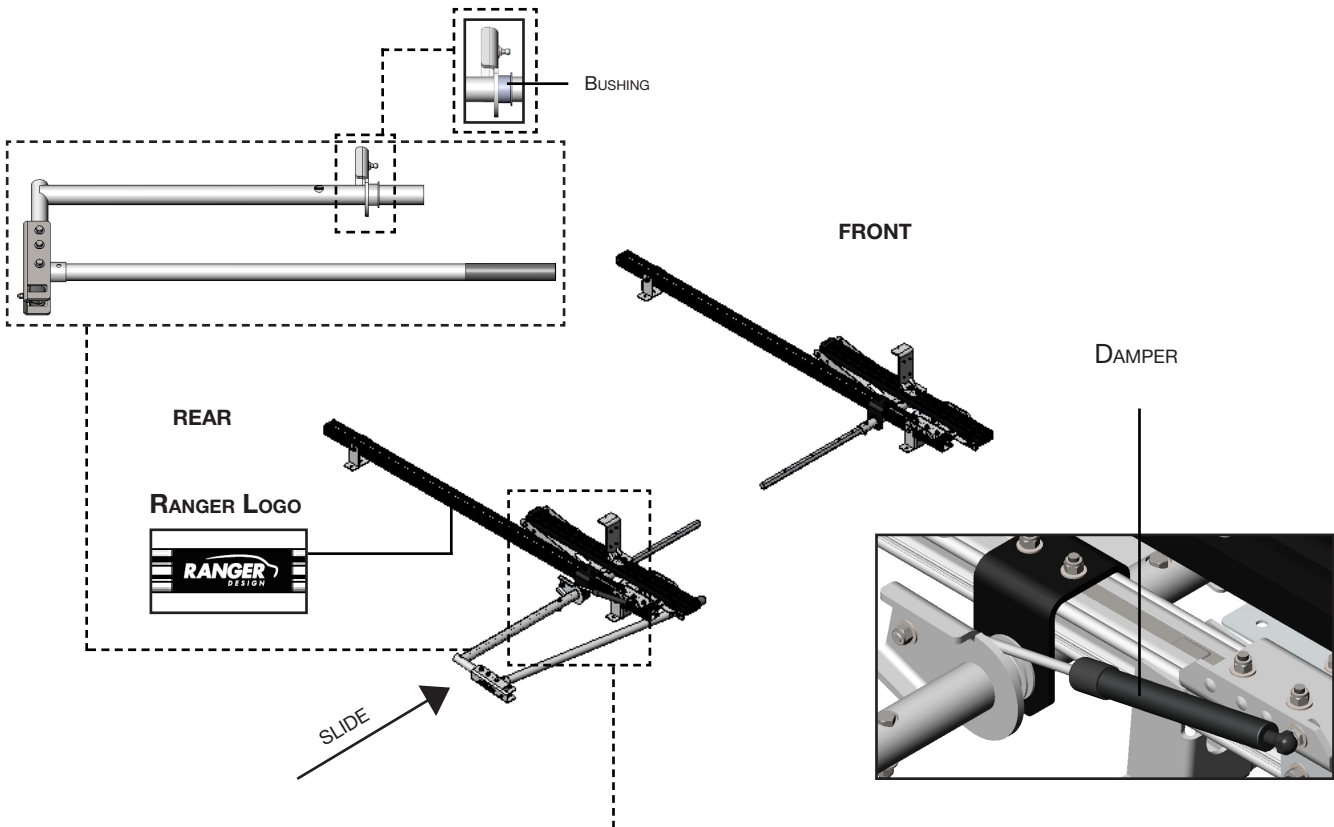
#98-117 Flat Washer 5/16"

#98-117 Flat Washer 5/16"

#94-111 Lock Nut 5/16"

- 1.2.7** • Slide the passenger side handle w/ bushing to the hex shaft through the shaft support bracket, then attach the passenger side handle to the hex shaft.
- Attach the damper after attaching the handle to the hex shaft.

NOTE: When installing the damper, ensure the rod is toward the center of the vehicle and cylinder is toward the side of the vehicle.



TOOLS

- ☐ Ratchet
- ☐ 1/2" Socket
- ☐ 1/2" Wrench

FASTENERS USED

1x (17 ft • lbs)



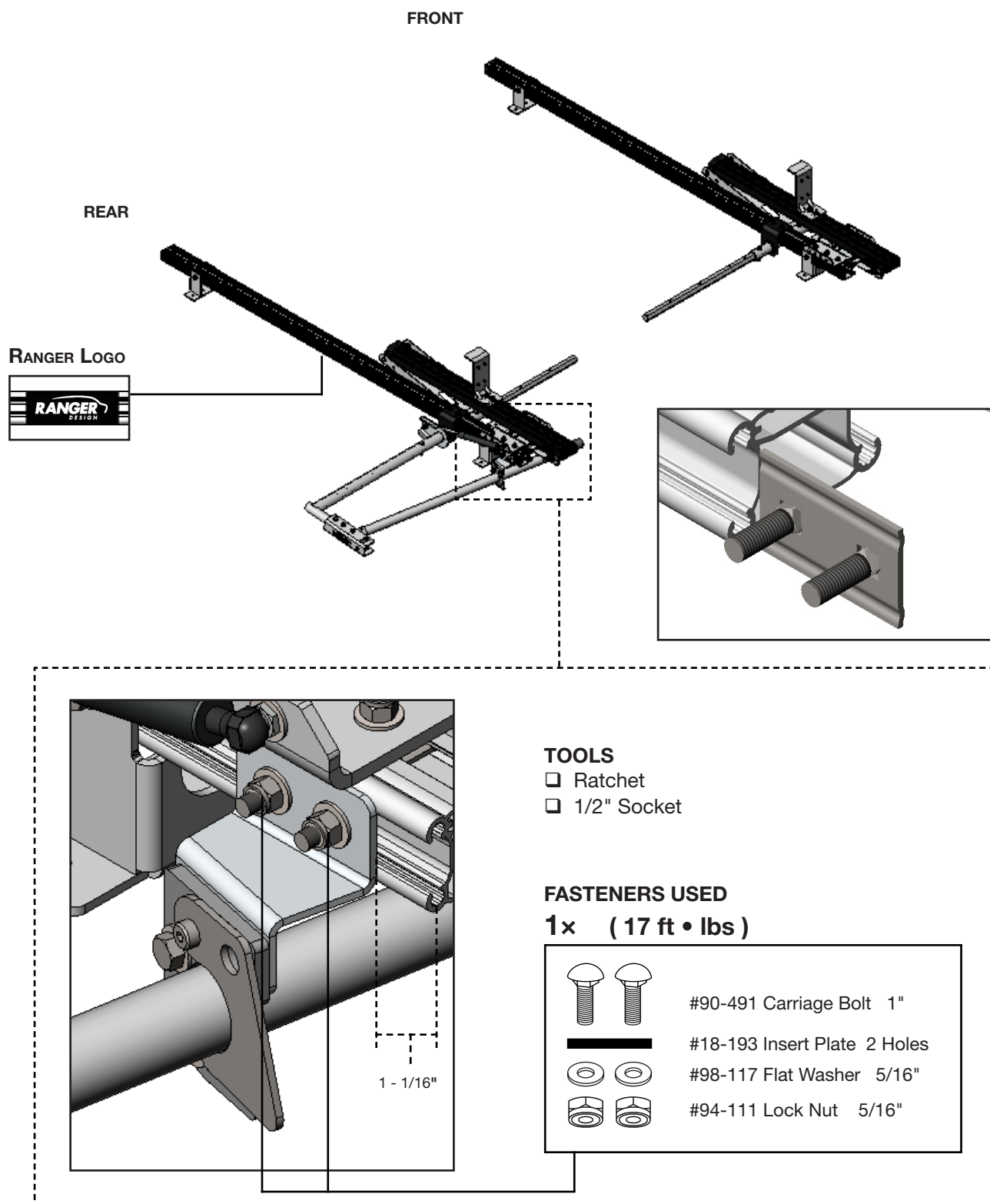
#90-225 Hex Bolt 2"

#98-117 Flat Washer 5/16"

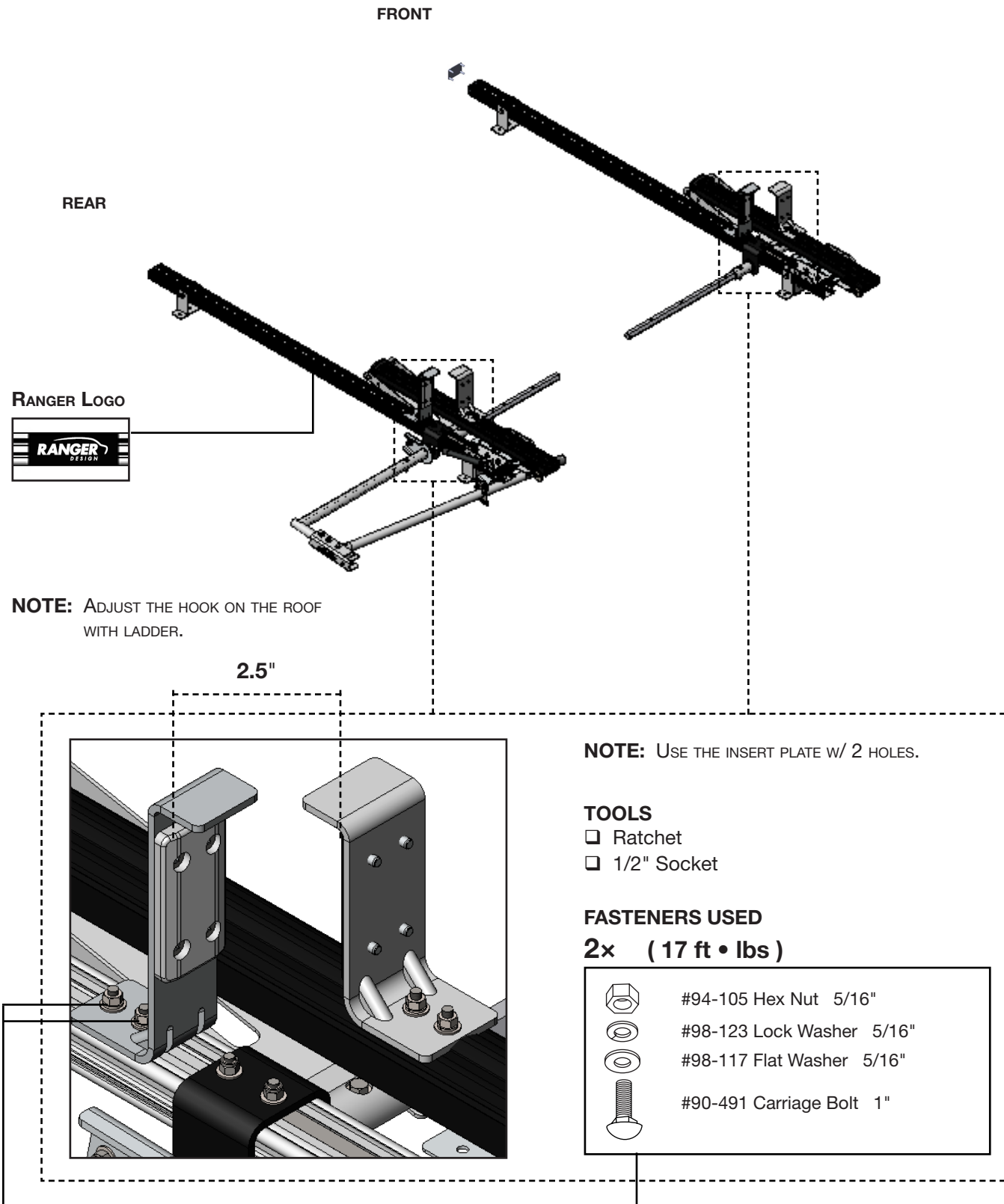
#98-117 Flat Washer 5/16"

#94-111 Lock Nut 5/16"

1.2.8 Attach passenger side clamp to the rear crossbar.



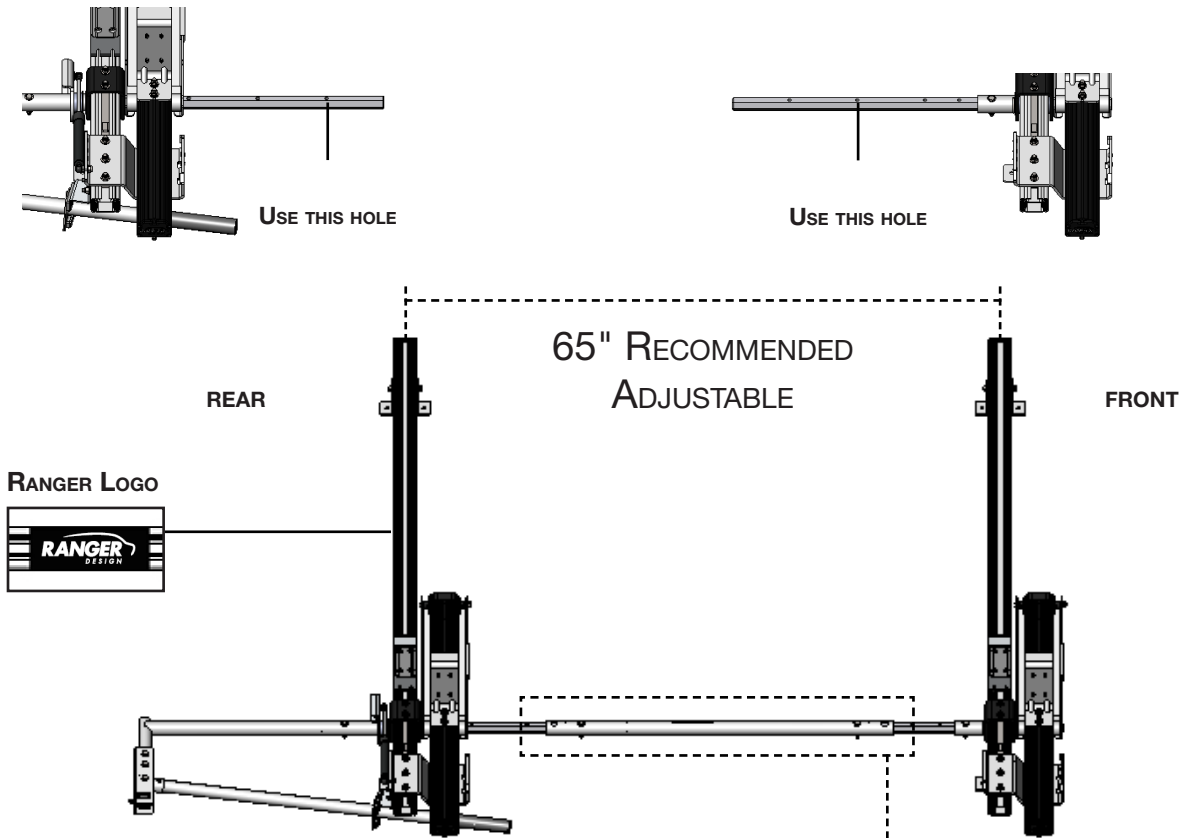
1.2.9 Attach the tall hooks and end caps to the crossbar.



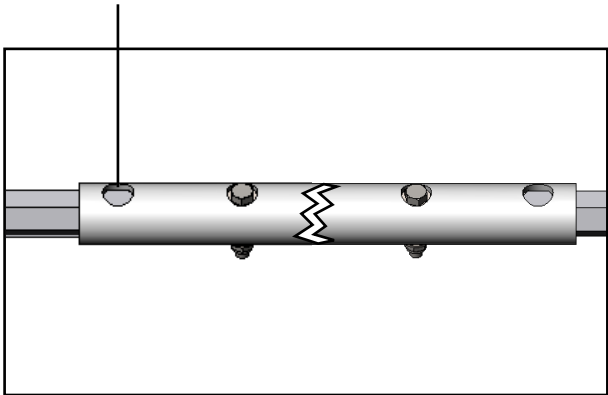
1.2.10 Attach the ends of the front hex bar and hex shaft to the center tube.

NOTE:

- Large hole on top.
- If you have double sided rack, repeat **CROSSBAR ASSEMBLY** (1.2.1 to step 1.2.10) for driver side rack.



NOTE: Large hole on top.



TOOLS

- Ratchet
- 1/2" Socket
- 1/2" Wrench

FASTENERS USED

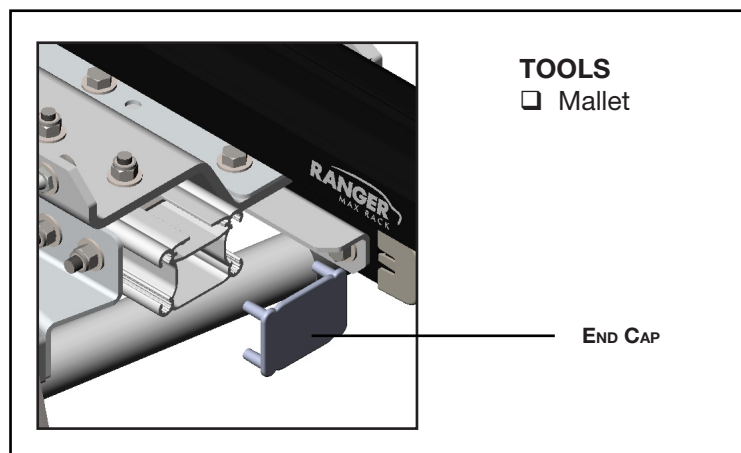
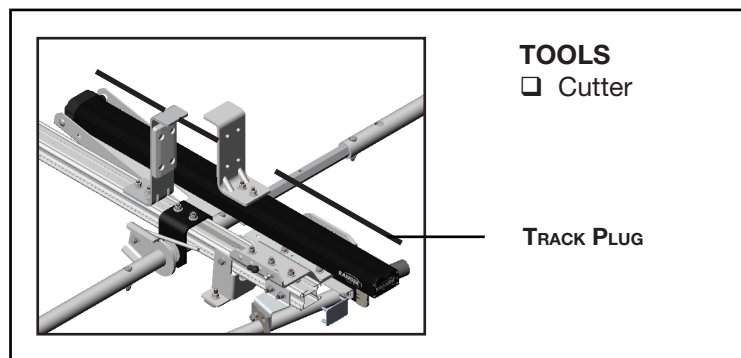
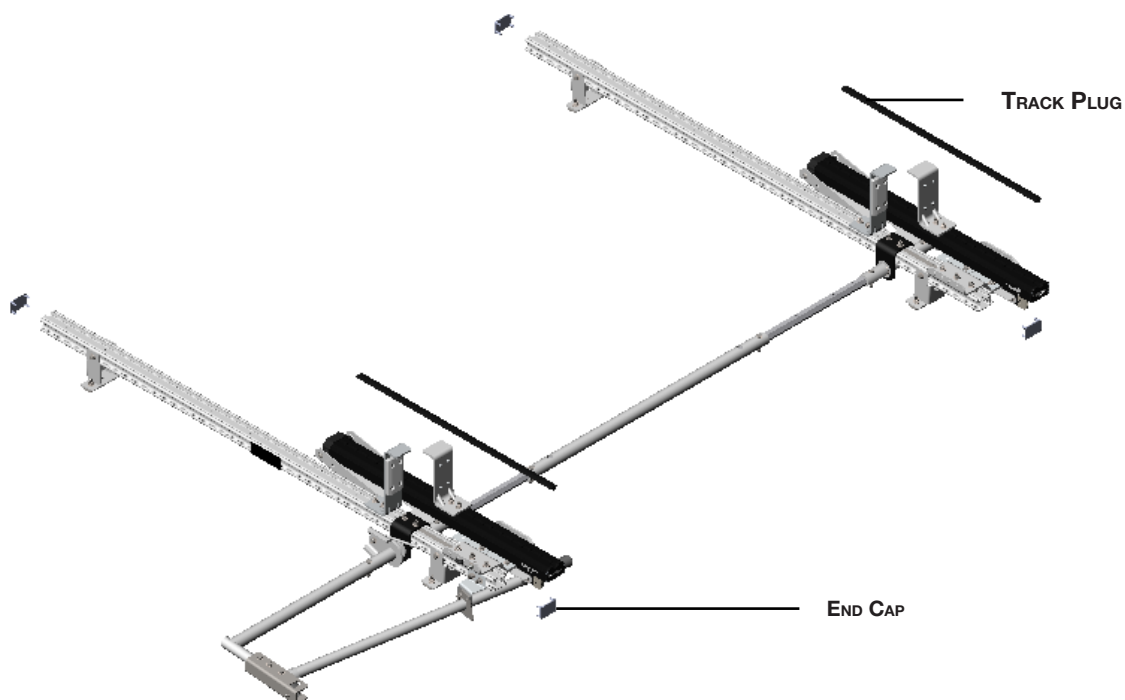
2x (17 ft • lbs)

	#90-225 Hex Bolt 2"
	#98-117 Flat Washer 5/16"
	#98-117 Flat Washer 5/16"
	#94-111 Lock Nut 5/16"

RECOMMENDED SET-UP

CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
53"	UP TO 6' STEP LADDER
65"	UP TO EXTENSION 24' & STEP 8' TO 10' ONLY
77"	UP TO EXTENSION LADDER 32'

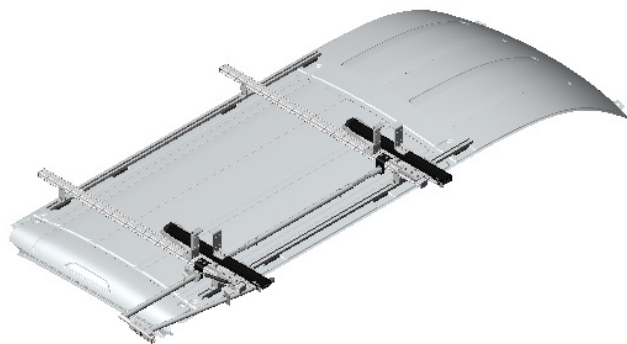
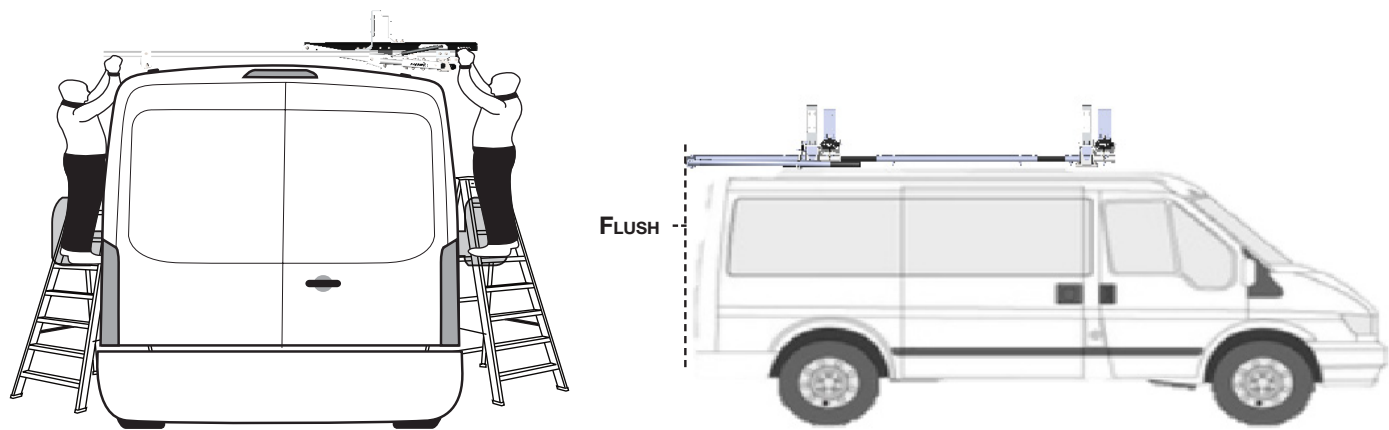
- 1.2.11**
- Cut to size, then attach the track plug to the mechanism.
 - Attach the 4 end caps to the end of the crossbars.



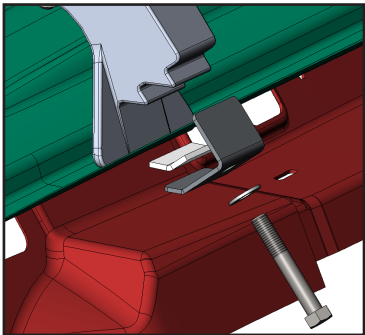
1.2.12 Lift the low roof max rack on the roof, then attach the feet to the mounting track.

NOTE: These condition must be respected:

- The handle cannot extend beyond the rear bumper of the vehicle.



SAVANA



TOOLS

- ❑ Ratchet
- ❑ 1/2" Socket

FASTENERS USED

4x ONE CROSSBAR (17 ft • lbs)



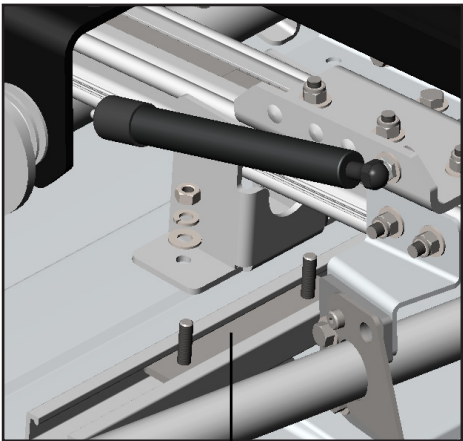
#94-105 Hex Nut



#98-123 Lock Washer

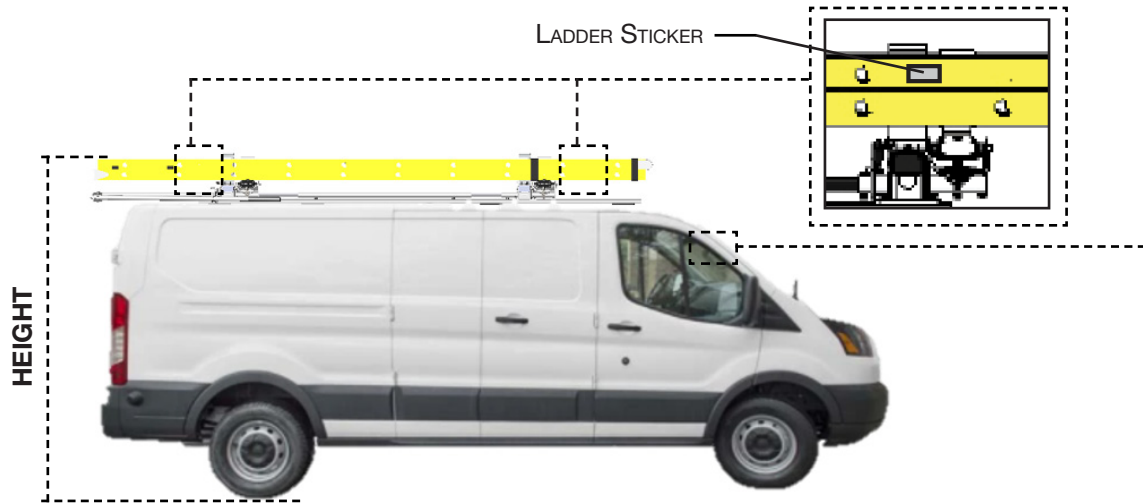


#98-117 Flat Washer

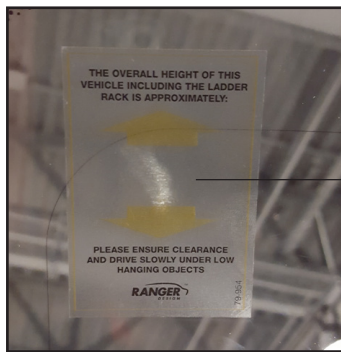


18-191 (CROSSBAR SUB-UNIT)

NOTE: • After installation be sure to put the **Operator's Manual** in the cab for the end user.
• If you don't have the ladder of the end user, explain to end user where to put the **Ladder sticker**.



MAX RACK HEIGHT LABEL INSTALLATION INSIDE



NOTE: Make sure that the label doesn't block the driver's visibility while driving.

Write the height of the vehicle with the Max Rack here.

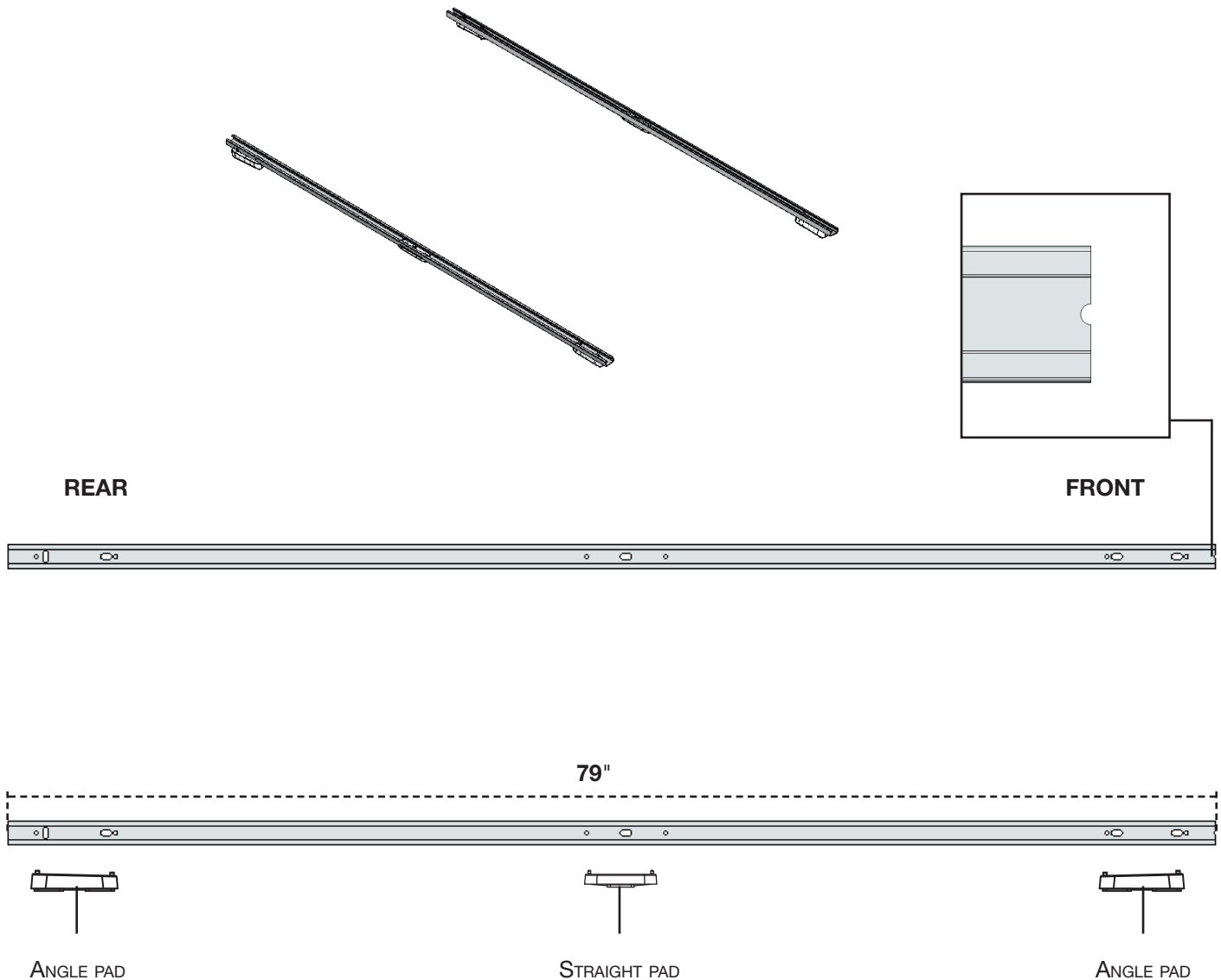
**“You have successfully installed
Low Roof Max Rack Passenger Side Mechanism!”**

Thank you for doing business with us.”

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



INSTALLATION GUIDE



18-U0045 MOUNTING TRACK

PROMASTER CITY

QUICK START GUIDE

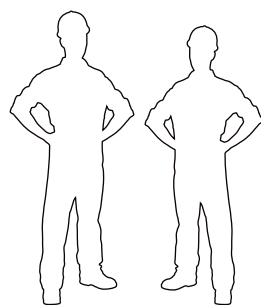
PHASE 1 - ASSEMBLY

- 1.1.1 SETUP (VERIFY ALL PARTS ARE PRESENT)..... 2 TO 3

PHASE 2 - INSTALLATION

- 2.1.1 INSTALLATION (INSTALL THE MOUNTING TRACK WITH PADS ON THE ROOF)..... 4

REQUIRED ITEMS



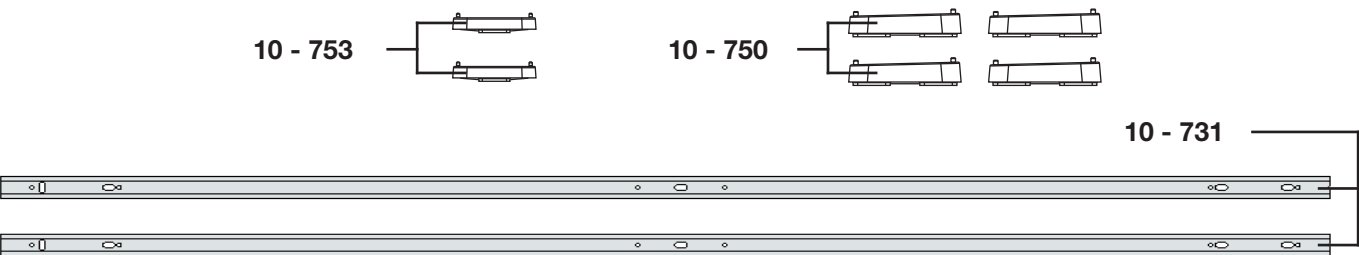
2
PERSONS

- ☐ Cordless Impact
- ☐ Tape Measure
- ☐ Ladder
- ☐ 10MM Socket

PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Verify all parts are present.



VERIFY ALL PARTS ARE PRESENT

Item No.	Description	Qty.
10-730	MOUNTING TRACK	2
10-750	ANGLE PAD	4
10-753	STRAIGHT PAD	2
96-1031	CUSTOMER INSTALL FASTENER KIT	1

VERIFY ALL PARTS ARE PRESENT

FASTENER BAGS.

96-1031



Fastener Assembly

8x



90-841

Hex Bolt
M6-1.0 x 50MM
SS304

2x



90-837

Hex Bolt
M6-1.0 x 40MM
SS304

10x



10-764

Neoprene Spacer
1/16" Thick

10x



98-113

Flat Washer
1/4"

10x



98-119

Lock Washer
1/4"

8x



#90-841 Hex Bolt M6 x 50MM



#98-119 LOCK WASHER



#98-113 FLAT WASHER



MOUNTING TRACK



ANGLE PAD



#10-764 NEOPRENE SPACER

2x



#90-837 Hex Bolt M6 x 40MM



#98-119 LOCK WASHER



#98-113 FLAT WASHER



MOUNTING TRACK



STRAIGHT PAD



#10-764 NEOPRENE SPACER

PHASE 2 – INSTALLATION

2.1 INSTALLATION

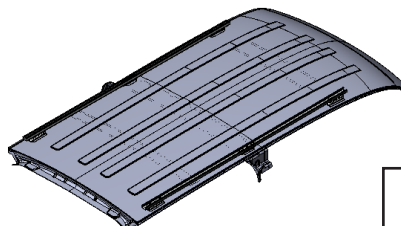
2.1.1 Install the mounting track with pads.

NOTE:

- Slide stud plate on both ends of the mounting track before installing the mounting track.
- Slide 3 stud plates if you have 3 bar racks.



NOTE: APPLY A BEAD OF SILICONE AROUND EACH HOLE, THEN FASTEN THE TRACKS TO THE ROOF.



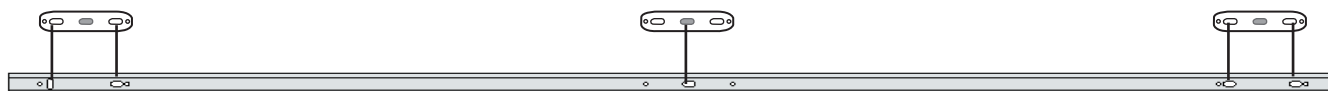
REAR

MIDDLE

FRONT

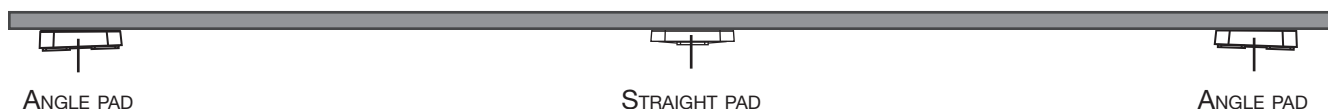
TOP VIEW

SHOWING WHAT HOLES YOU WILL USE



SIDE VIEW

SHOWING THE POSITION OF THE PADS

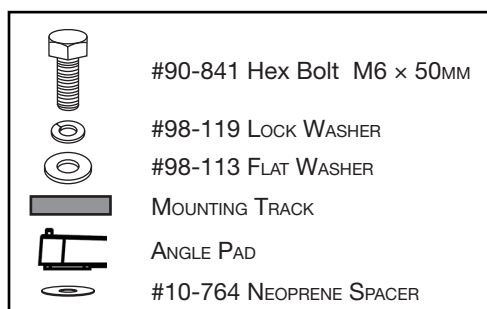


TOOLS

- ☐ Cordless Impact
- ☐ 10MM Socket

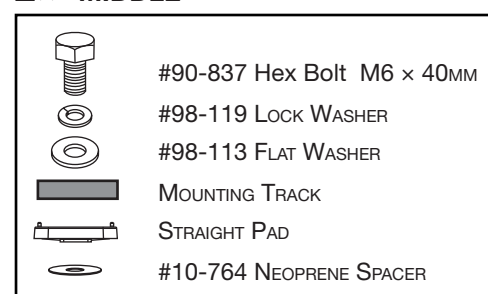
FASTENERS USED

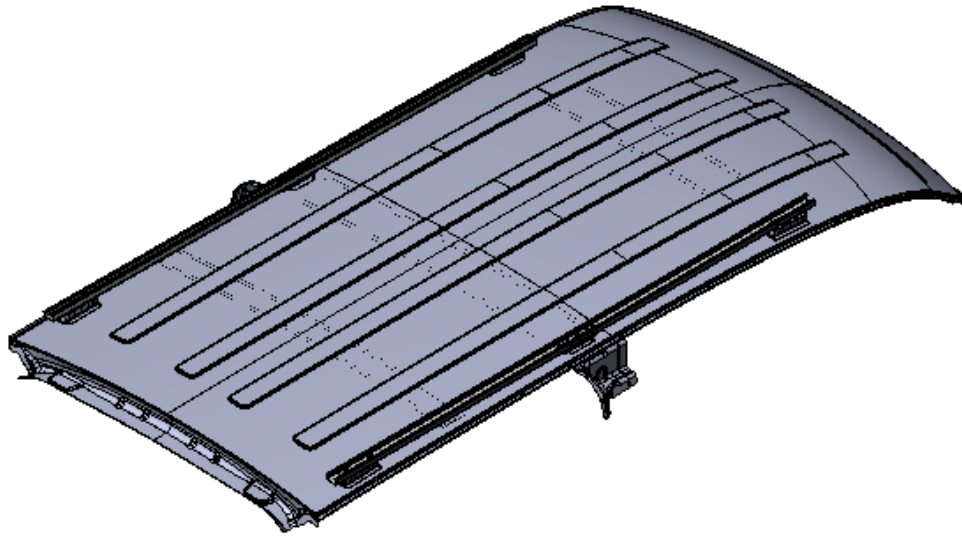
8x FRONT & REAR



FASTENERS USED

2x MIDDLE





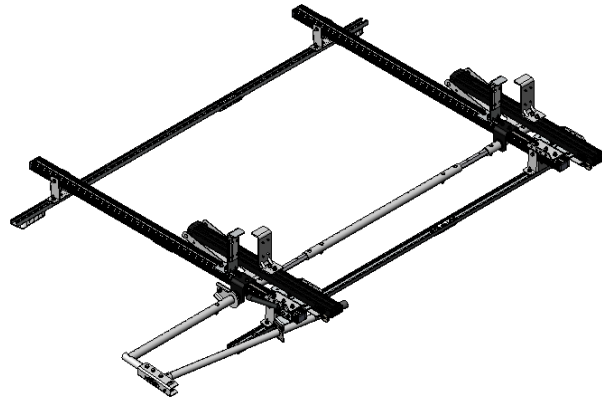
**“Congratulations, you have successfully installed your
Mounting Track on your vehicle!**

Thank you for doing business with us.”

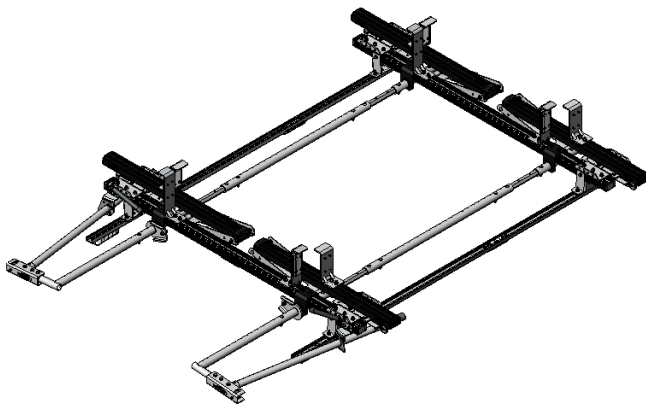
For any feedback or suggestions you might have, please contact: [**cs@rangerdesign.com**](mailto:cs@rangerdesign.com)



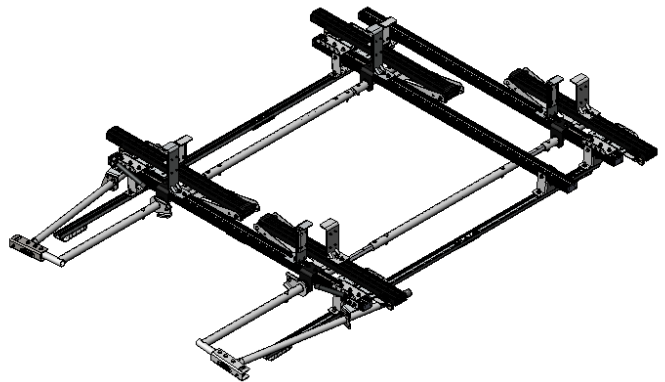
1840-MM



1850-MM



1850-MM3



**“Congratulations, you have successfully installed your
Low Roof Max Rack on your vehicle!”**

Thank you for doing business with us.”

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

