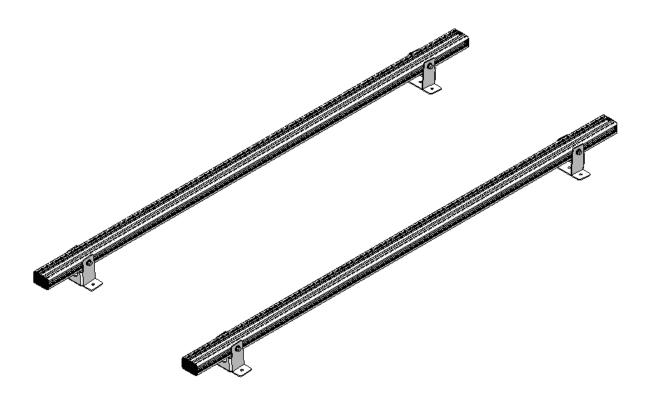
INSTALLATION GUIDE



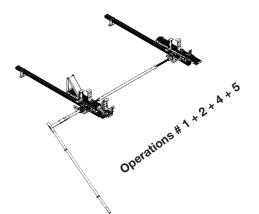
18-U1806 Max Rack Crossbar

(Max Rack)

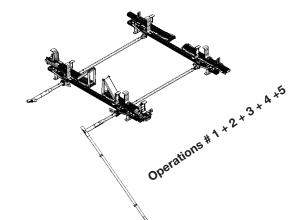


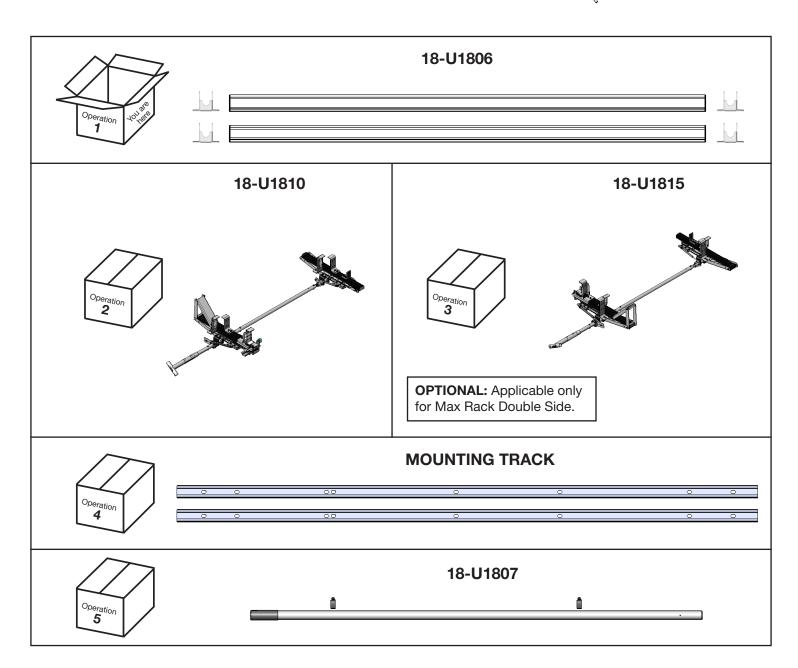
ORDER OF OPERATION

MAX RACK SINGLE SIDE



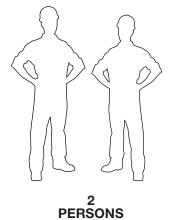
MAX RACK DOUBLE SIDE





REQUIRED ITEMS FOR COMPLETE MAX RACK

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

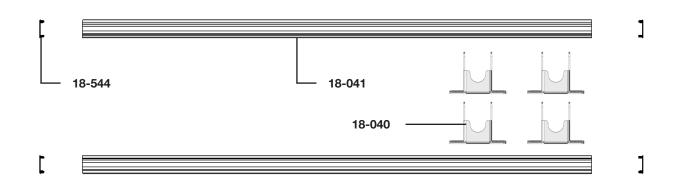


- Cordless Impact
- Ratchet
- Tape Measure
- Marker
- Ladder
- □ 1/2" Wrench
- □ 1/2" Socket
- □ Sawhorse (Optional)
- Box

PERSONS

PHASE 1 – ASSEMBLY 1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.



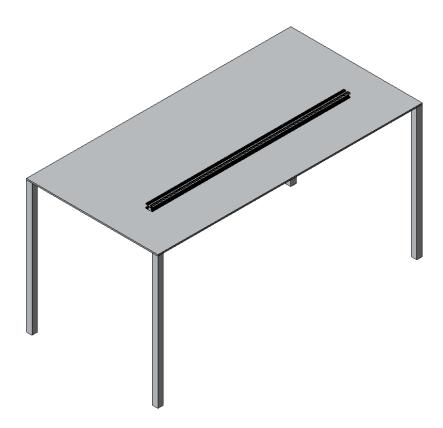
1.1.2 Verify all parts are present.

Item No.	Description	Qty.
18-040	Foot	4
18-041	Max Rack Crossbar	2
18-544	End Plastic Plug	4
94-1806	Fastener kit	1



PHASE 1 – ASSEMBLY 1.2 MAX RACK PREPARATION

1.2.1 Pull one Crossbar on the box 18-U1806 and put the Crossbar on the table.



"You have successfully completed Operation 1 Max Rack Crossbar! Open the passenger side mechanism (18-U1810) box to continue assembling the Max Rack

Thank you for doing business with us."

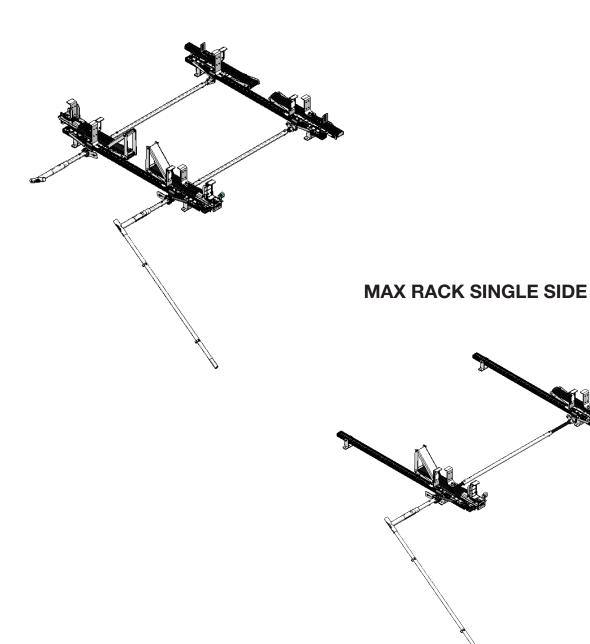
For any feedback or suggestions you might have, please contact: <u>CS@rangerdesign.com</u>





INSTALLATION GUIDE

MAX RACK DOUBLE SIDE



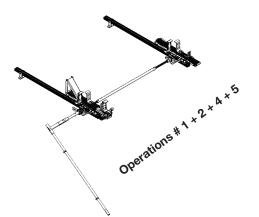
18-U1810 Max Rack

Passenger Side

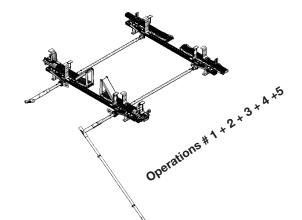


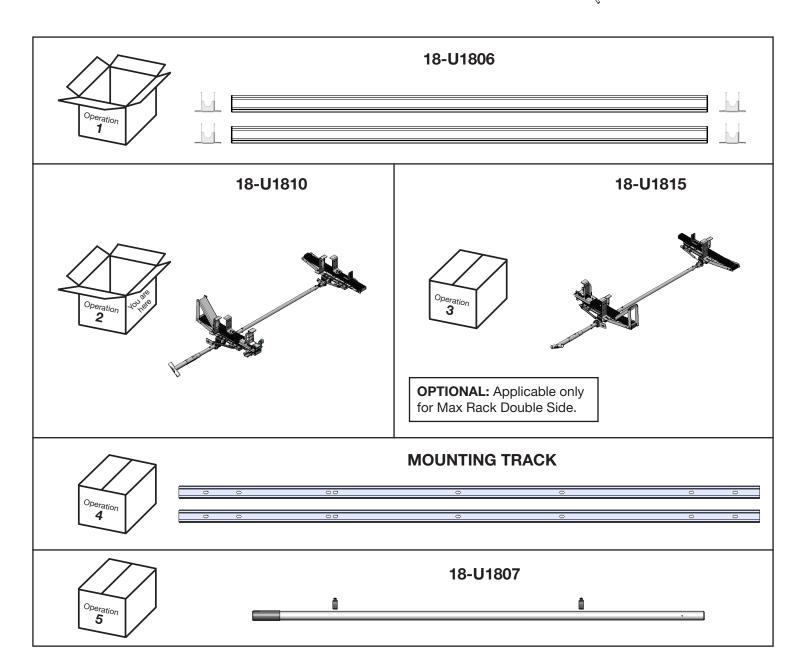
ORDER OF OPERATION

MAX RACK SINGLE SIDE



MAX RACK DOUBLE SIDE





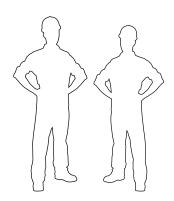
QUICK START GUIDE

Phase 1 - Assembly

□ 1.1 Setup	4 то 5
1.2 Front Crossbar Assembly	
1.3 Rear Crossbar Assembly.	
□ 1.4 For Assembly With Overhead Lift	
□ 1.5 Assembly Validation	

REQUIRED ITEMS FOR COMPLETE MAX RACK

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



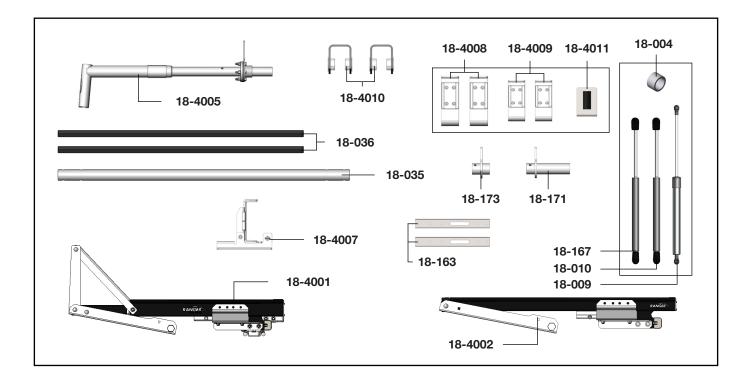
2 PERSONS

- Cordless Impact
- Ratchet
- Tape Measure
- Marker
- Ladder
- □ 1/2" Wrench
- □ 1/2" Socket
- □ Sawhorse (Optional)
- 🛛 Box
- □ 1/8" Slot Screwdriver or Pick



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.

Item No.	Description	Qty.
18-004	Spacer	1
18-009	Damper	1
18-010	Gas Spring	1
18-035	Center Tube	1
18-036	Pivot Bar	2
18-163	Washer Plate	2
18-167	Gas Spring Combo	1
18-171	Passenger Side Linkage, Front	1
18-173	Passenger Side Linkage, Rear	1
18-4001	Passenger Side Rear Mechanism	1
18-4002	Passenger Side Front Mechanism	1
18-4005	Passenger Side Damper kit	1
18-4007	Anti-theft, Lock	1
18-4008	Long Hook	2
18-4009	Small Hook	2
18-4010	Shaft Support Bracket	2
18-4011	Front Ladder Retainer	1
94-0810	Customer Assembly Fastener Kit	1



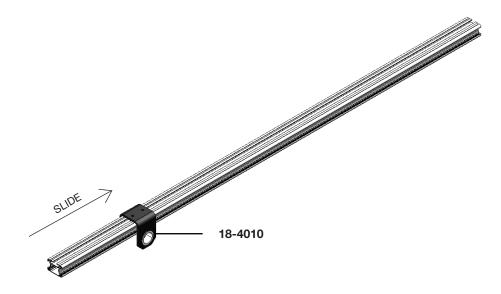
		94-0810		Fastener Assembly
5×	or the	# 40-665	Ball Stud 3/4" Zinc Plated	5×
14×		# 90-205	Hex Bolt 5/16" - 18 × 3/4" SS304	 #40-665 Ball Stud 3/4" #98-117 Flat Washer 5/16" #98-117 Flat Washer 5/16" #94-111 Lock Nut 5/16"
7×		# 90-225	Hex Bolt 5/16" - 18 × 2" SS304	14×
8×	•	# 90-491	Carriage Bolt 5/16" - 18 × 1" SS304	 #90-205 Hex Bolt 3/4" #98-123 Lock Washer 5/16" #Channel Nut 5/16"
8×		# 94-105	Hex Nut 5/16" - 18 SS316 wax	<u>7×</u>
12×	0	# 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"
14×	13	# 94-250	Channel Nut 5/16" - 18 SST	
32×	0	# 98-117	Flat Washer 5/16", 3/4" O.D. SS18 - 8	8× #90-491 Carriage Bolt 1" #98-117 Flat Washer 5/16" #98-123 Lock Washer 5/16" #94-105 Hex Nut 5/16"
22×	0	# 98-123	Lock Washer 5/16" SS304	#94-105 Hex Nut 5/16"

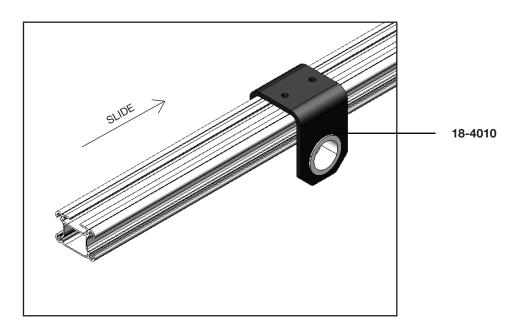


PHASE 1 – ASSEMBLY 1.2 FRONT CROSSBAR ASSEMBLY

1.2.1 Slide the shaft support bracket onto the Crossbar.

NOTE: Slide 2 shaft support brackets if you are assembling a double sided rack.

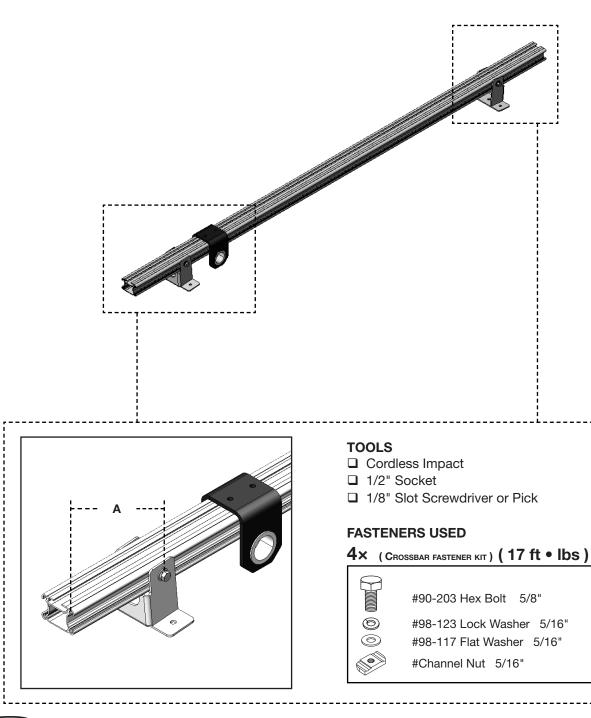






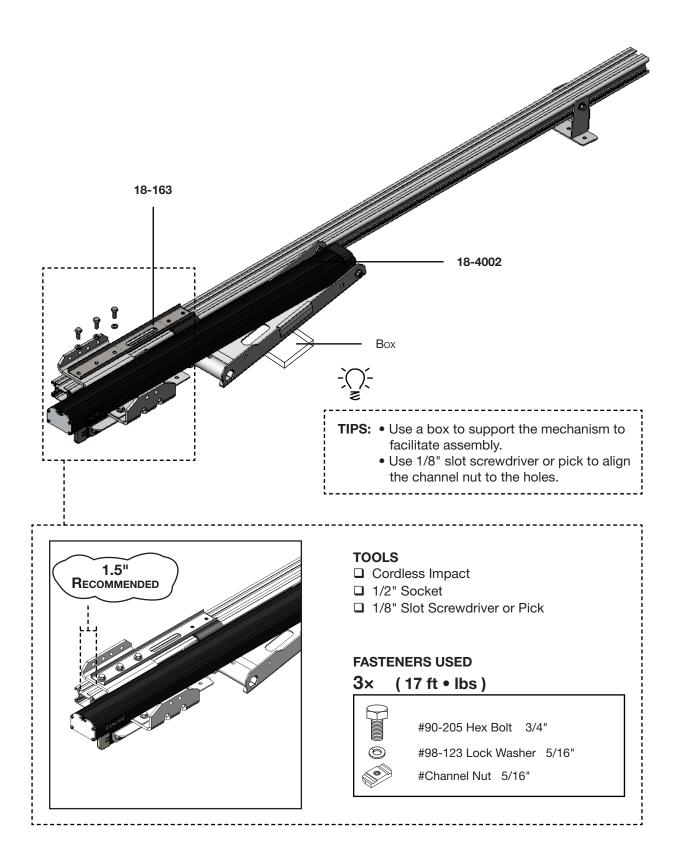
1.2.2 Attach the 2 feet from mounting track box to the crossbar.

FOOT PLACEMENT GUIDE		
VEHICLE DIMENSION (A)		
NISSAN NV	7"	
Sprinter	10" HIGH ROOF, 6 - 1/2" STANDARD ROOF	
Transit 130" wb	8 - 7/8"	
TRANSIT 148" & 148" EXT. WB	8 - 7/8"	
PROMASTER 118" WB	7 - 1/16"	
PROMASTER 136" WB	7 - 1/16"	



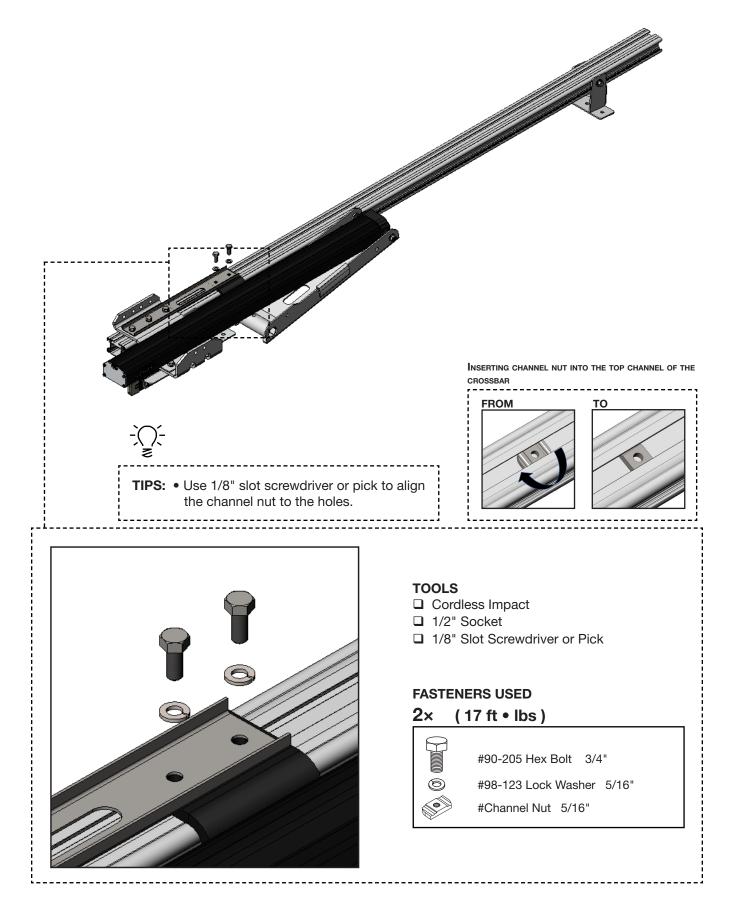


- **1.2.3** Slide 3 channel nuts into the top channel of the crossbar.
 - Attach the passenger side front mechanism to the crossbar with washer plate using the 3 channel nuts.



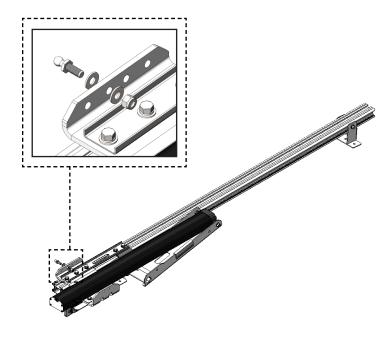


- **1.2.4** Insert 2 channel nuts into the top channel of the crossbar, then align them to the shaft support bracket holes.
 - Attach the shaft support bracket to the crossbar with the washer plate using the 2 channel nuts.





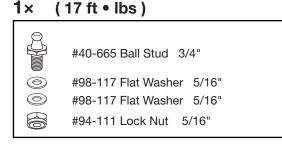
1.2.5 Attach ball stud to the frame of front mechanism.



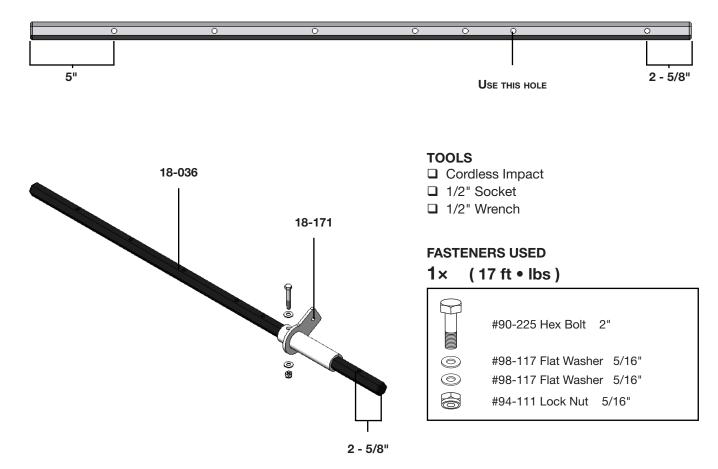
TOOLS

- Cordless Impact
- □ 1/2" Socket
- □ 1/2" Wrench

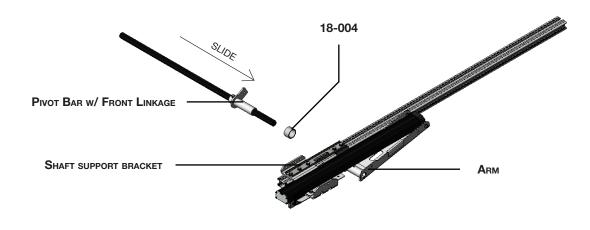
FASTENERS USED $1 \times (17 \text{ ft} \cdot \text{lbs})$



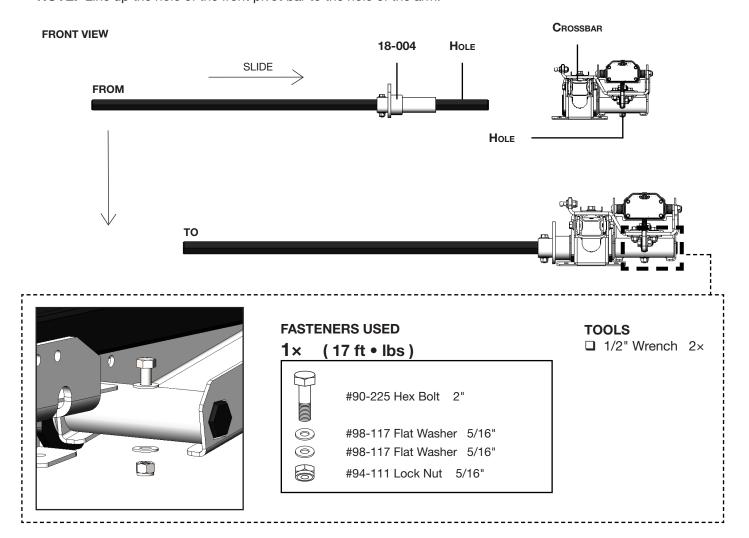
1.2.6 Attach the passenger side front linkage to the pivot bar.



1.2.7 Slide the pivot bar with front linkage and spacer through the shaft support bracket and arm, then attach the pivot bar to the arm.



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



RANGER

1.2.8 Attach ball stud to the passenger side front linkage.



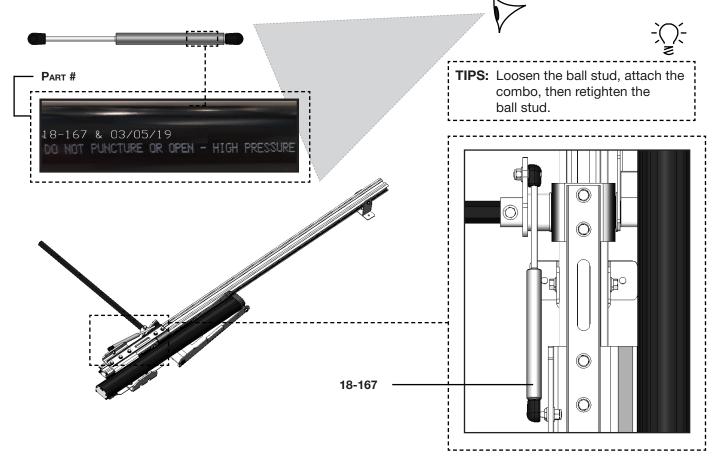


FASTENERS USED



1.2.9 Attach the gas spring combo to the ball studs.

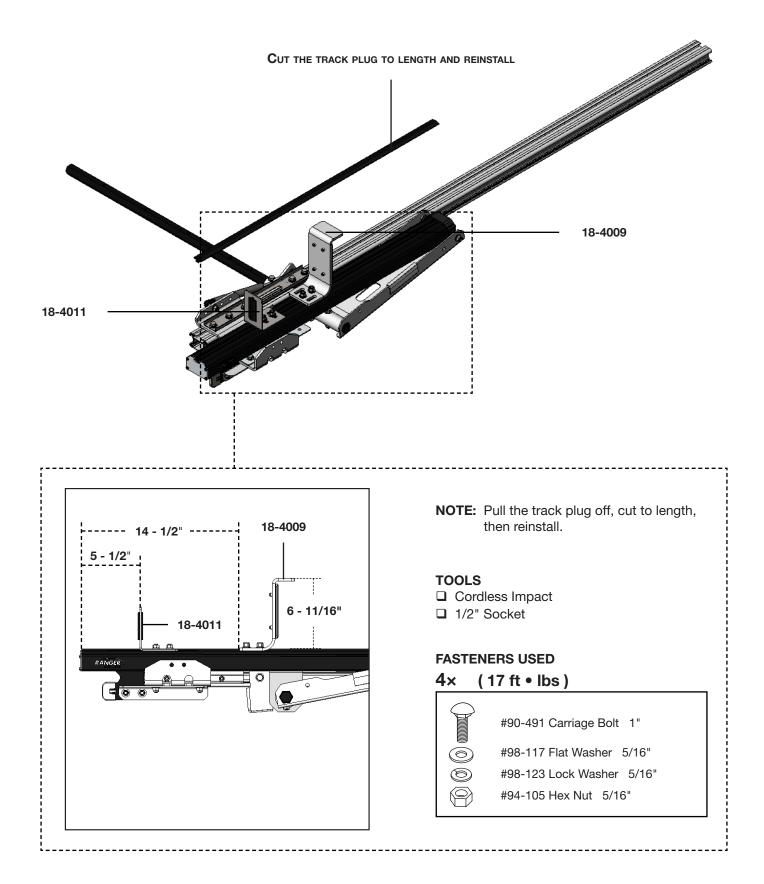
NOTE: Gas spring combo will have "18-167" printed on it.





1.2.10 • Pull the track plug off.

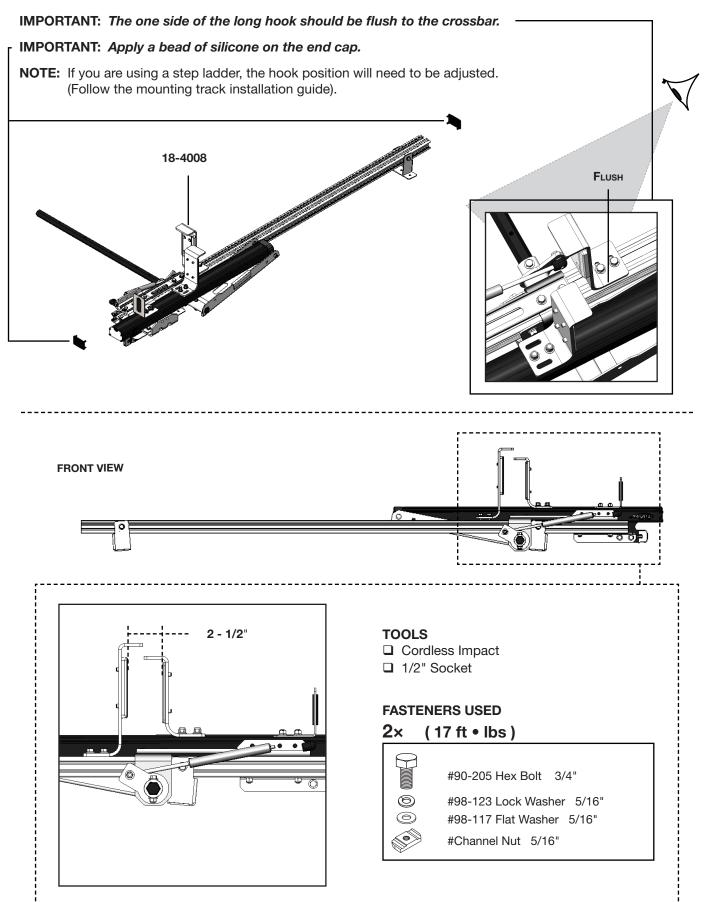
- Attach one small hook and front ladder retainer to the front mechanism.
- Cut the track plug to length and reinstall.





1.2.11 • Attach the long hook to the crossbar, facing to the small hook.

• Apply a bead of silicone on the end cap, then attach the end cap to the crossbar.

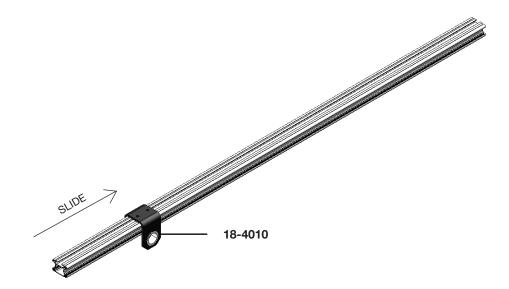


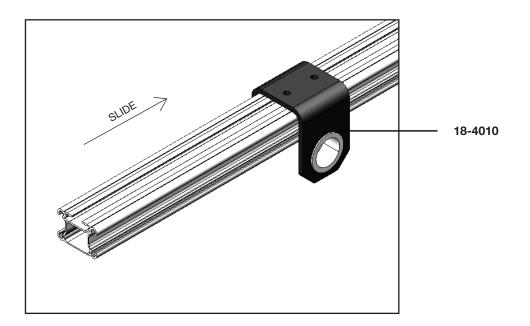
RANGER

PHASE 1 – ASSEMBLY 1.3 REAR CROSSBAR ASSEMBLY

1.3.1 Slide the shaft support bracket onto the crossbar.

NOTE: Slide 2 shaft support brackets if you are assembling a double sided rack.

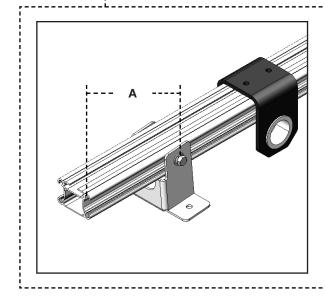






1.3.2 Attach the 2 feet from mounting track box to the crossbar.

FOOT PLACEMENT GUIDE		
VEHICLE DIMENSION (A)		
NISSAN NV	7"	
Sprinter	10" HIGH ROOF, 6 - 1/2" STANDARD ROOF	
Transit 130" wb	8 - 7/8"	
TRANSIT 148" & 148" EXT. WB	8 - 7/8"	
PROMASTER 118" WB	7 - 1/16"	
PROMASTER 136" WB	7 - 1/16"	



TOOLS

- Cordless Impact
- □ 1/2" Socket
- □ 1/8" Slot Screwdriver or Pick

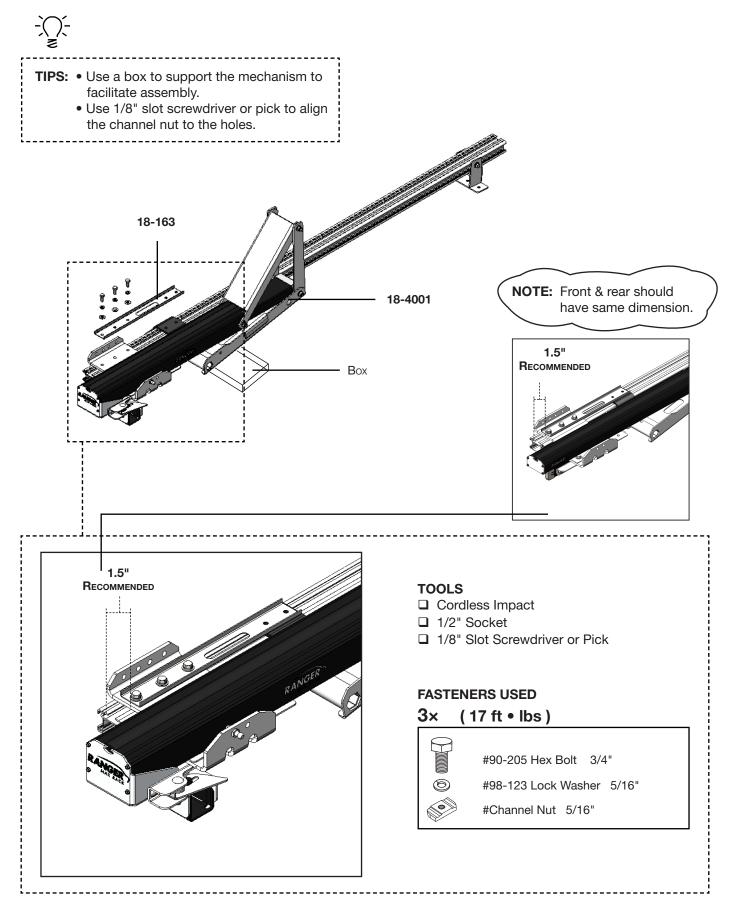
FASTENERS USED

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

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

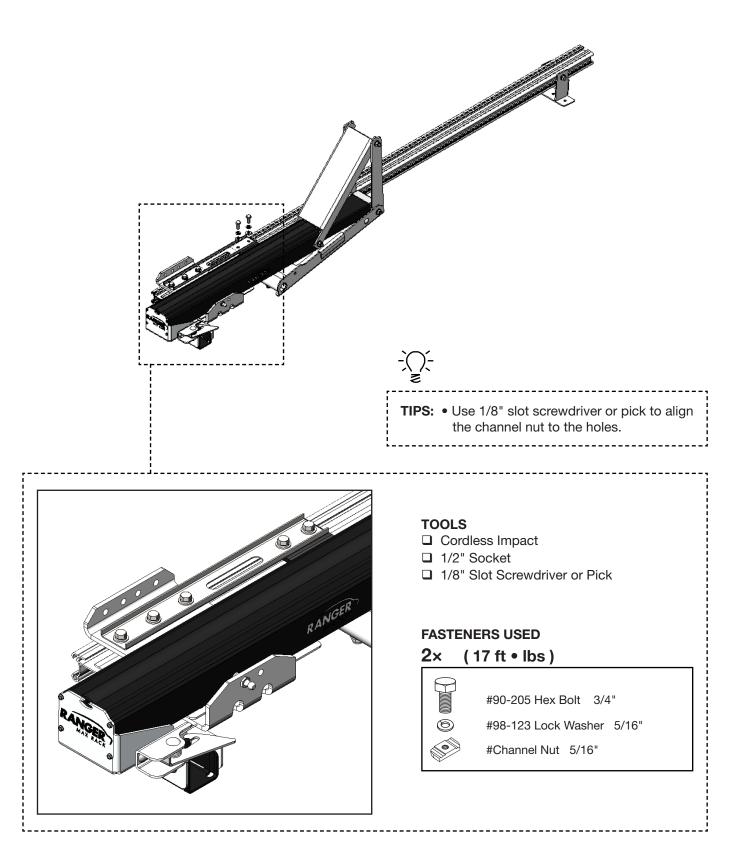


- **1.3.3** Slide 3 channel nuts into the top channel of the crossbar.
 - Attach the passenger side rear mechanism to the crossbar with washer plate using the 3 channel nuts.



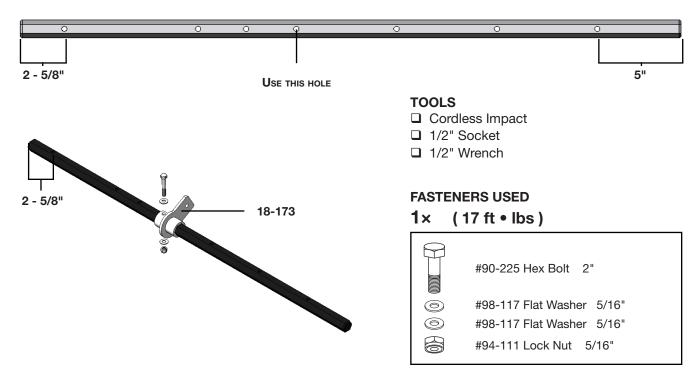


- **1.3.4** Insert 2 channel nuts into the top channel of the crossbar, then align them to the shaft support bracket holes.
 - Attach the shaft support bracket to the crossbar with the washer plate using the 2 channel nuts.



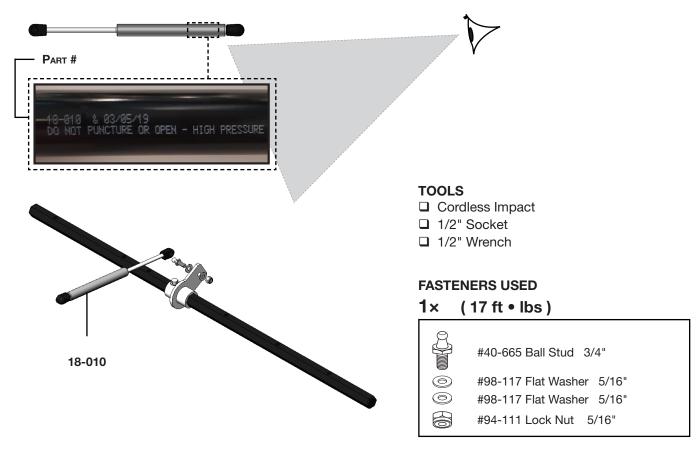


1.3.5 Attach the passenger side rear linkage to the pivot bar.



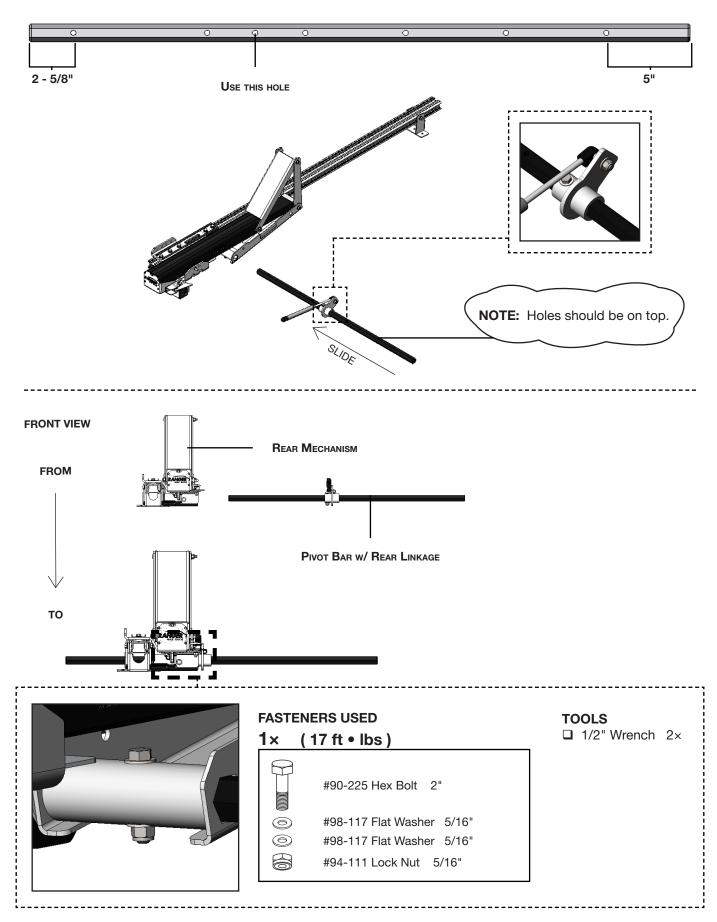
1.3.6 Attach the passenger side rear linkage to the pivot bar.

NOTE: Gas spring will have "18-010" printed on it.



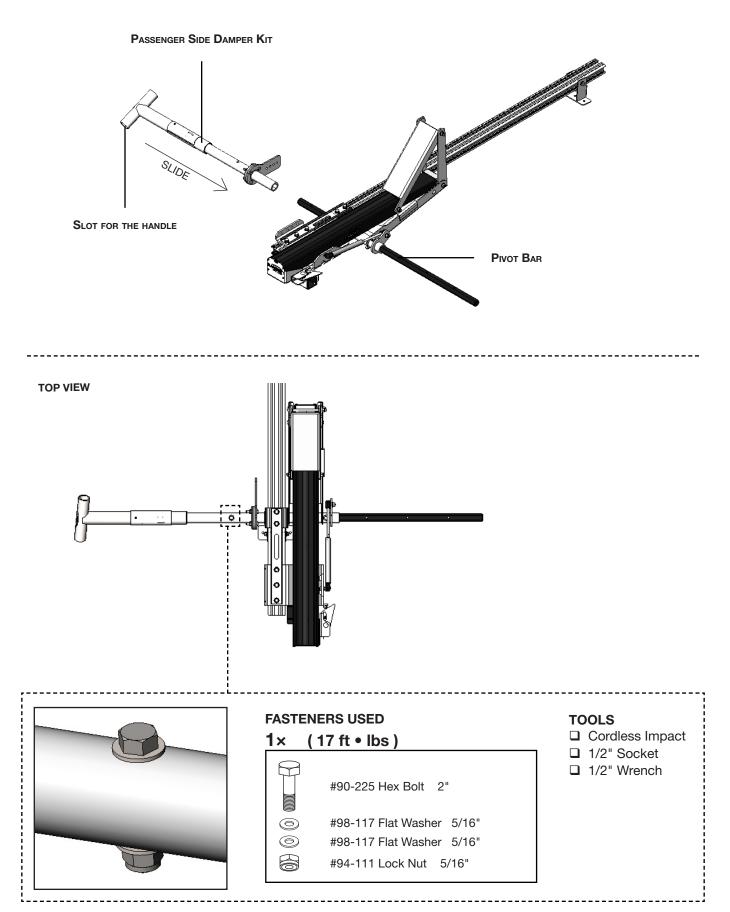


1.3.7 Slide the pivot bar with rear linkage through the arm and shaft support bracket, then attach the pivot bar to the arm.



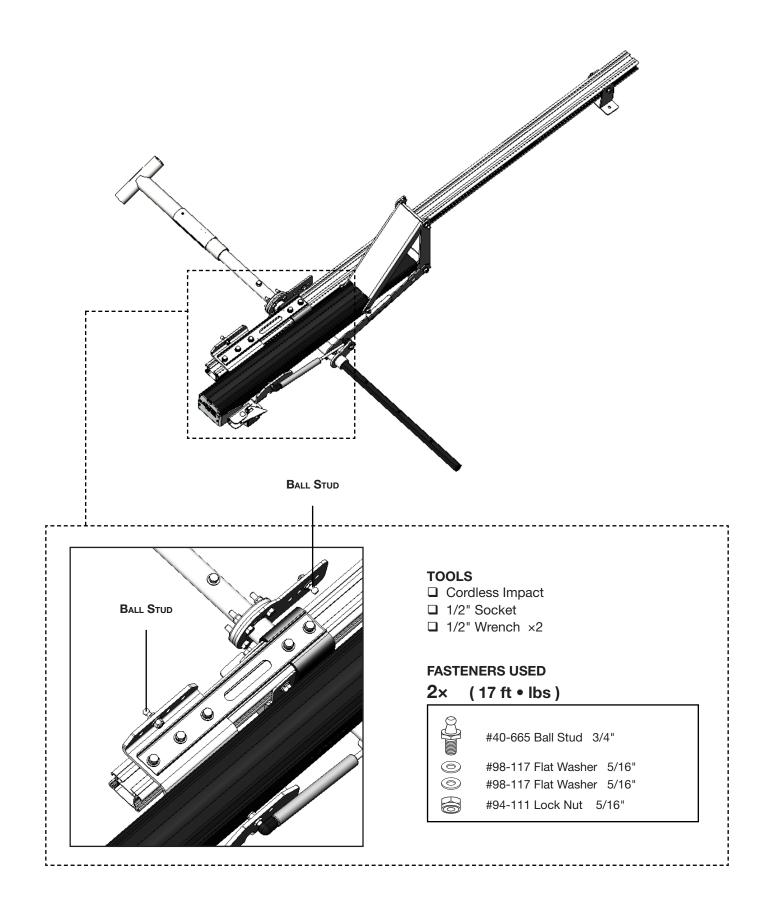
RANGER

1.3.8 Slide the passenger side damper kit to the pivot bar, then attach the passenger side damper kit to the pivot bar.





1.3.9 Attach ball stud to the passenger side damper kit and rear mechanism frame.

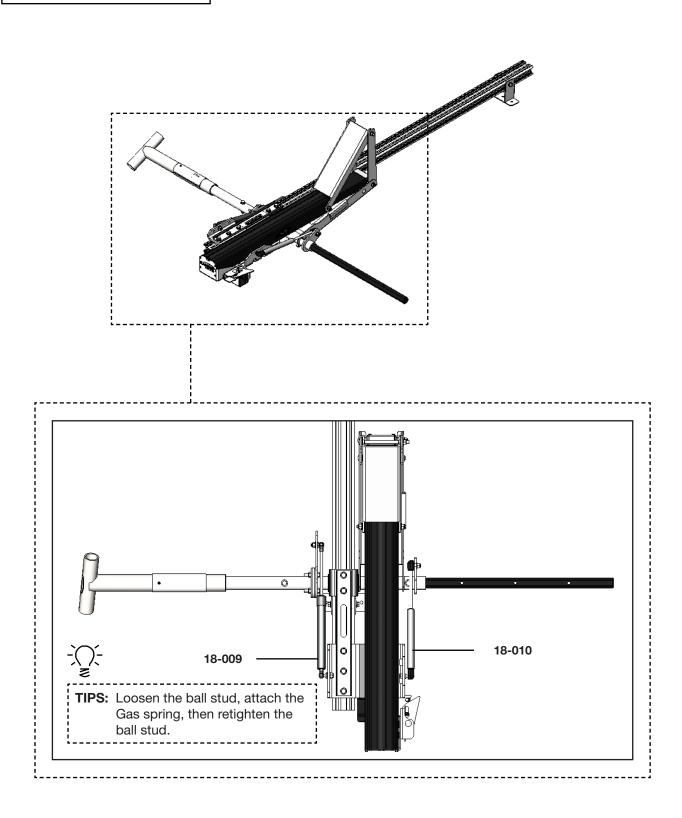


RANGER

1.3.10 Attach the damper and gas spring to the ball stud.



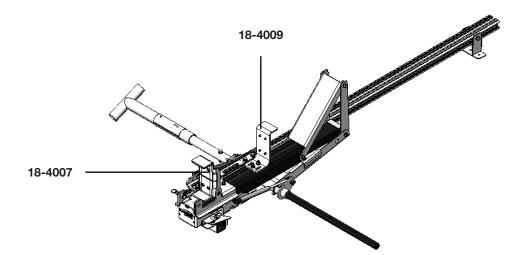




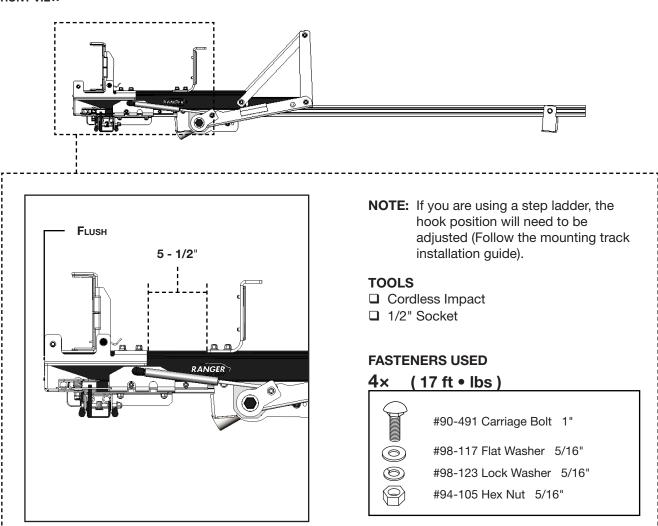


1.3.11 • Pull the track plug off.

- Attach one small hook and anti-theft lock to the rear mechanism.
- Cut the track plug to length and reinstall.



FRONT VIEW

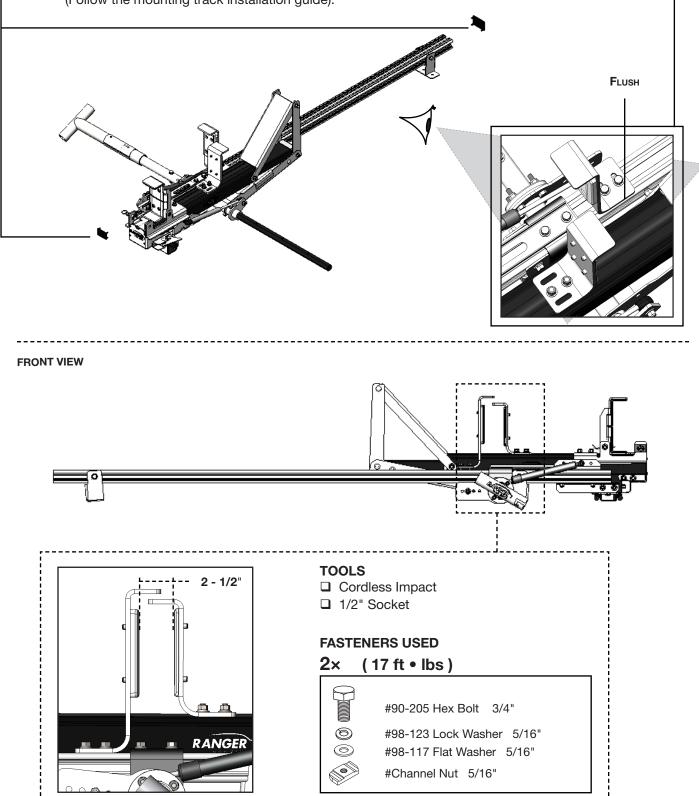


- **1.3.12** Attach the long hook to the crossbar, facing to the small hook.
 - Apply a bead of silicone on the end cap, then attach the end cap to the crossbar.

IMPORTANT: The one side of the long hook should be flush to the crossbar.

IMPORTANT: Apply a bead of silicone on the end cap.

NOTE: If you are using a step ladder, the hook position will need to be adjusted. (Follow the mounting track installation guide).

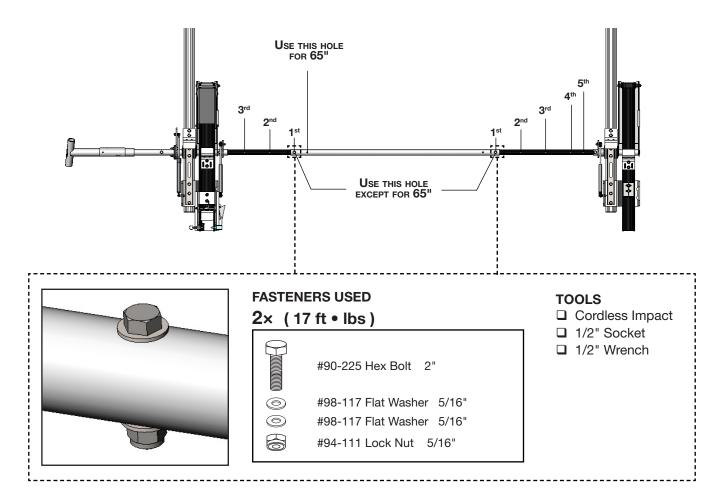




PHASE 1 – ASSEMBLY 1.4 FOR ASSEMBLY WITH OVERHEAD LIFT

1.4.1 Attach the ends of the front and rear bars to the center tube.

NOTE: Skip this step if you don't have an overhead lift or if you have a Max Rack double side.



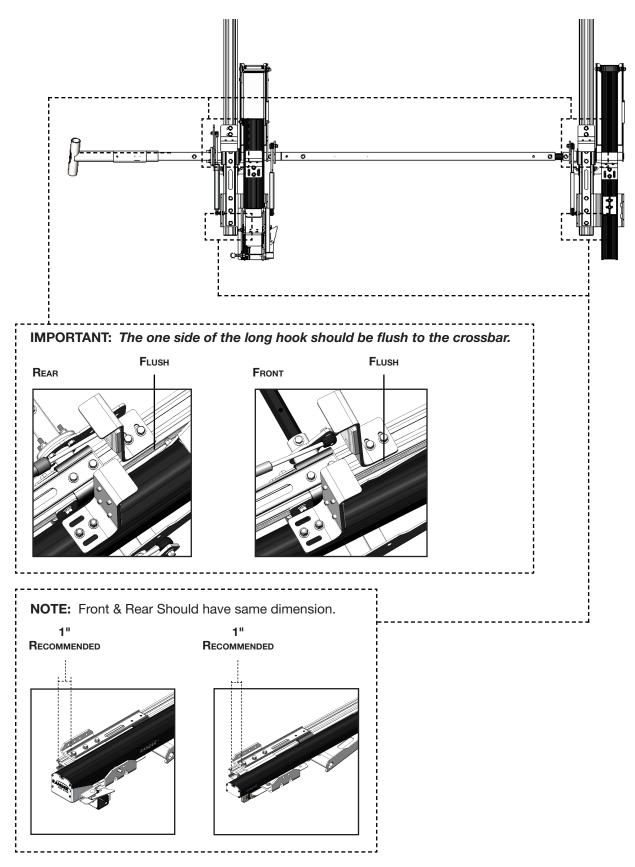
VEHICLE	CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
NISSAN NV (NH)	Maximum: 65" ($5^{TH} \& 3^{RD}$ Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Maximum: 101" (1 st & 1 st Holes)	MAXIMUM: EXTENSION 32', STEP 10'
Sprinter (DH) -	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Maximum: 77" (3^{RD} & 3^{RD} Holes)	MAXIMUM: EXTENSION 28', STEP 8'
Transit 130" wb(FTR)	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
Transit 148" & 148" ехт. wb (FTL) -	Maximum: 89" (2^{ND} & 2^{ND} Holes)	MAXIMUM: EXTENSION 32', STEP 10'
	MINIMUM: 65" (5 [™] & 3 [™] Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Maximum: 77" (3^{RD} & 3^{RD} Holes)	MAXIMUM: EXTENSION 28', STEP 8'
PROMASTER 118" WB (PHS)	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	MAXIMUM: 89" (2^{ND} & 2^{ND} Holes)	MAXIMUM: EXTENSION 32', STEP 10'
PROMASTER 136" WB (PHM)	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Maximum: 101" (1 st & 1 st Holes)	MAXIMUM: EXTENSION 32', STEP 10'
Promaster 159" wb(PHL)	MINIMUM: 65" (5 [™] & 3 [№] Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Махімим: 101" (1 st & 1 st Holes)	MAXIMUM: EXTENSION 32', STEP 10'
Promaster 159" ext. wb (PHX) -	MINIMUM: 65" (5 [™] & 3 [№] Holes)	MAXIMUM: EXTENSION 24', STEP 8'

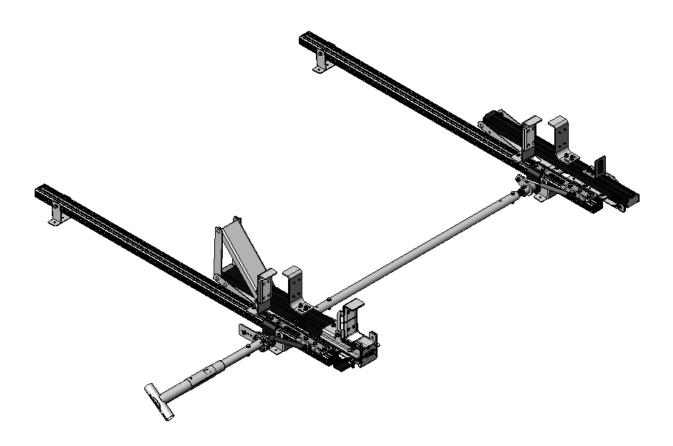


PHASE 1 - ASSEMBLY

1.5 ASSEMBLY VALIDATION

1.5.1 Validate your assembly to ensure smooth operation of your Max Rack.





"You have successfully completed Operation 2 Max Rack Passenger Side Mechanism! Open the driver side mechanism (18-U1815) box or follow the Install Guide of the mounting track to install the Max Rack on your vehicle.

Thank you for doing business with us."

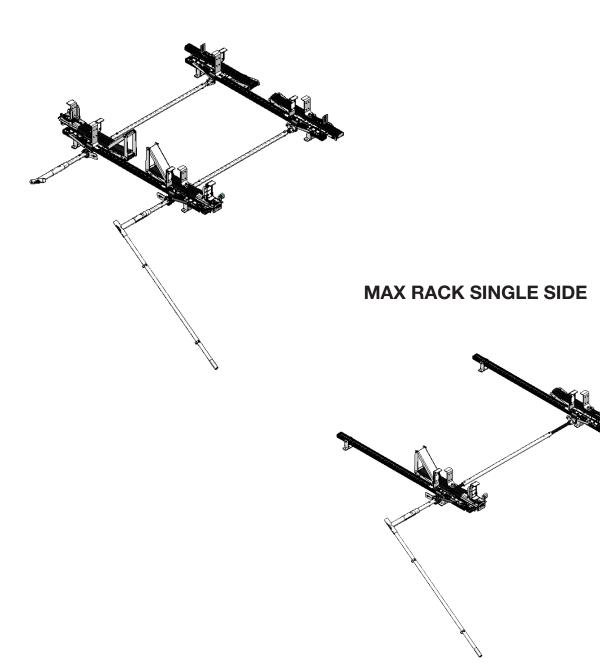
For any feedback or suggestions you might have, please contact: <u>CS@rangerdesign.com</u>





INSTALLATION GUIDE

MAX RACK DOUBLE SIDE



18-U1815 Max Rack

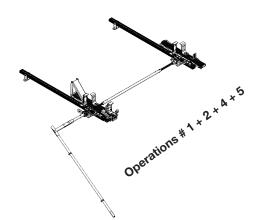
Driver Side

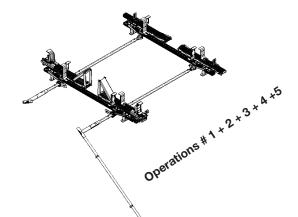


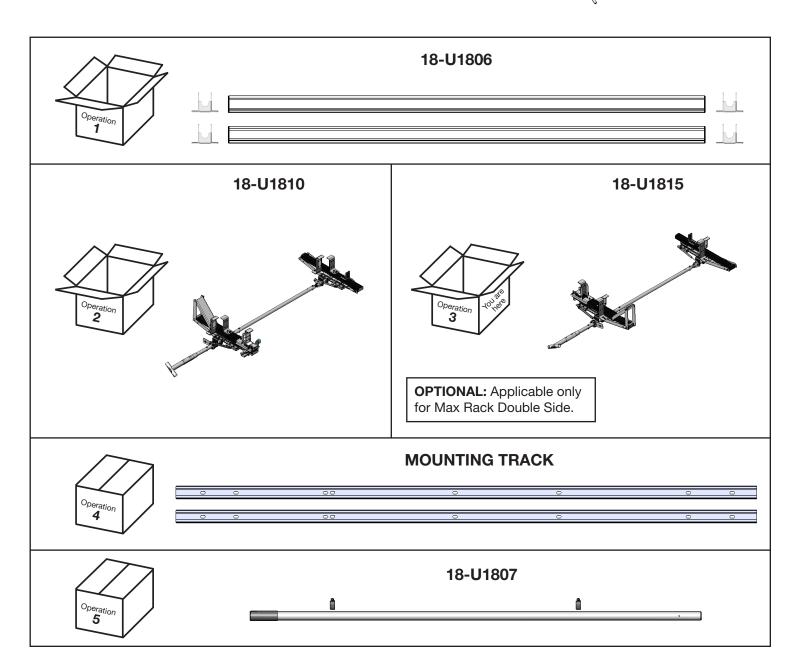
ORDER OF OPERATION

MAX RACK SINGLE SIDE

MAX RACK DOUBLE SIDE







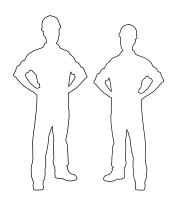
QUICK START GUIDE

Phase 1 - Assembly

□ 1.1 Setup	4 то 5
1.2 Front Crossbar Assembly	
1.3 Rear Crossbar Assembly	
□ 1.4 For Assembly With Overhead Lift	
1.5 Assembly Validation	25

REQUIRED ITEMS FOR COMPLETE MAX RACK

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



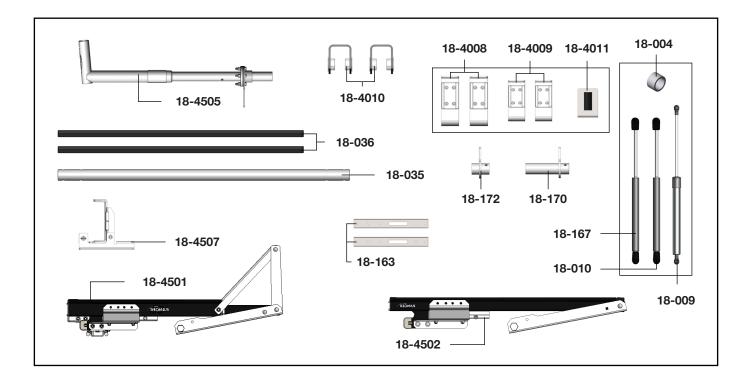
2 PERSONS

- Cordless Impact
- Ratchet
- Tape Measure
- Marker
- Ladder
- □ 1/2" Wrench
- □ 1/2" Socket
- □ Sawhorse (Optional)
- 🛛 Box
- □ 1/8" Slot Screwdriver or Pick
- Cutter



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.

Item No.	Description	Qty.
18-004	Spacer	1
18-009	Damper	1
18-010	Gas Spring	1
18-035	Center Tube	1
18-036	Pivot Bar	2
18-163	Washer Plate	2
18-167	Gas Spring Combo	1
18-170	Driver Side Linkage, Front	1
18-172	Driver Side Linkage, Rear	1
18-4501	Driver Side Rear Mechanism	1
18-4502	Driver Side Front Mechanism	1
18-4505	Driver Side Damper kit	1
18-4507	Anti-theft, Lock	1
18-4008	Long Hook	2
18-4009	Small Hook	2
18-4010	Shaft Support Bracket	2
18-4011	Front Ladder Retainer	1
94-0815	Customer Assembly Fastener Kit	1



		94-0815		Fastener Assembly
5×	of the	# 40-665	Ball Stud 3/4" Zinc Plated	5×
14×		# 90-205	Hex Bolt 5/16" - 18 × 3/4" 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"
7×		# 90-225	Hex Bolt 5/16" - 18 × 2" SS304	14×
8×	•	# 90-49 1	Carriage Bolt 5/16" - 18 × 1" SS304	#90-205 Hex Bolt 3/4" #98-123 Lock Washer 5/16" #Channel Nut 5/16"
8×		# 94-105	Hex Nut 5/16" - 18 SS316 wax	7×
12×	0	# 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"
14×	13	# 94-250	Channel Nut 5/16" - 18 SST	
32×	0	# 98-11 7	Flat Washer 5/16", 3/4" O.D. SS18 - 8	8× #90-491 Carriage Bolt 1" #98-117 Flat Washer 5/16" #98-123 Lock Washer 5/16" #94-105 Hex Nut 5/16"
22×	0	# 98-123	Lock Washer 5/16" SS304	#94-105 Hex Nut 5/16"



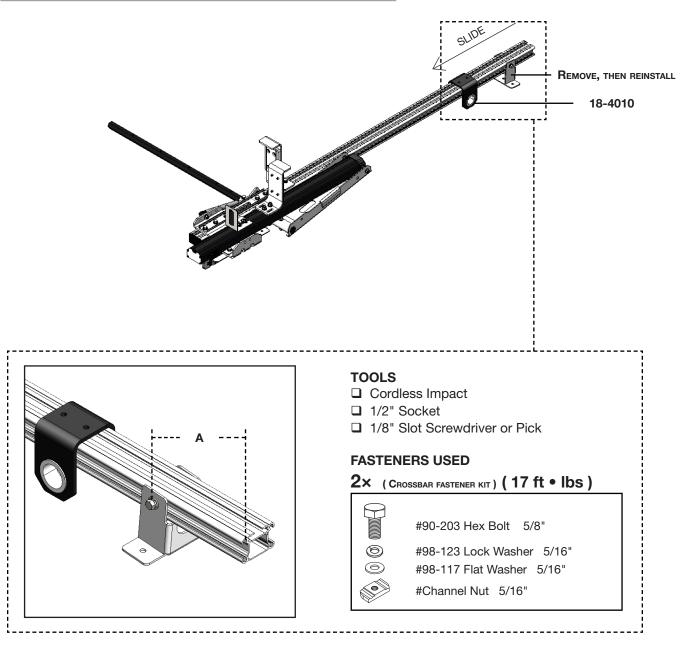
PHASE 1 – ASSEMBLY

1.2 FRONT CROSSBAR ASSEMBLY

NOTE: Skip this step if you forgot to slide 2 shaft support bracket for double sided rack.

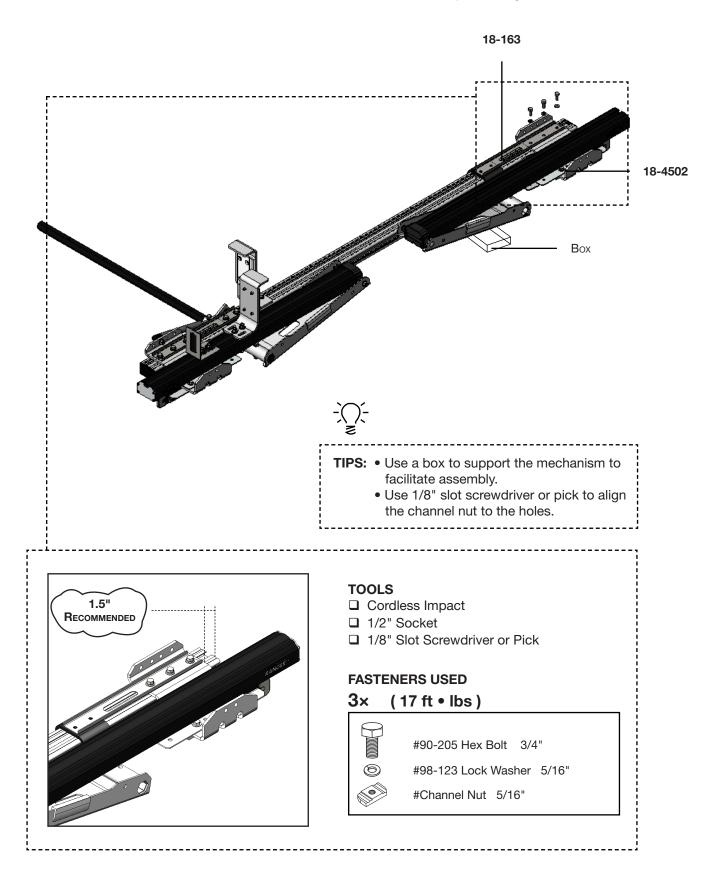
1.2.1 Remove the driver side feet, slide the shaft support bracket, then reinstall the feet.

FOOT PLACEMENT GUIDE			
VEHICLE	DIMENSION (A)		
NISSAN NV	7"		
Sprinter	10" HIGH ROOF, 6 - 1/2" STANDARD ROOF		
Transit 130" wb	8 - 7/8"		
Transit 148" & 148" ext. wb	8 - 7/8"		
PROMASTER 118" WB	7 - 1/16"		
PROMASTER 136" WB	7 - 1/16"		



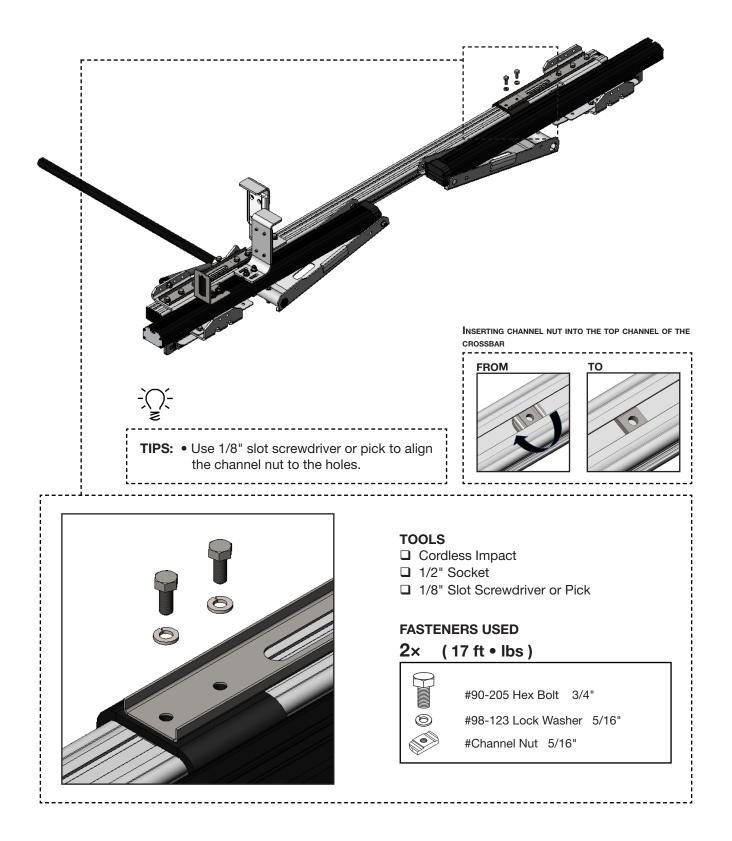


- **1.2.2** Slide 3 channel nuts into the top channel of the crossbar.
 - Attach the driver side front mechanism to the crossbar with washer plate using the 3 channel nuts.



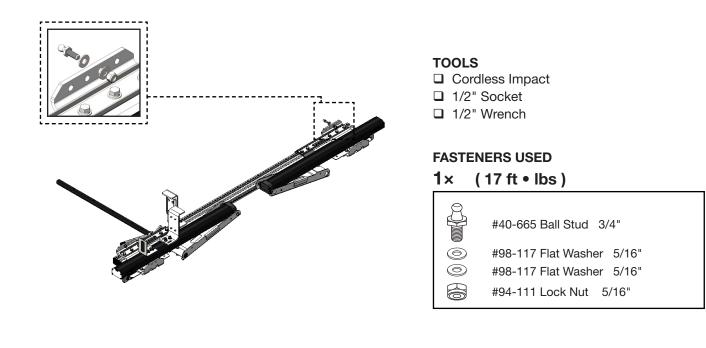


- **1.2.3** Insert 2 channel nuts into the top channel of the crossbar, then align them to the shaft support bracket holes.
 - Attach the shaft support bracket to the crossbar with the washer plate using the 2 channel nuts.

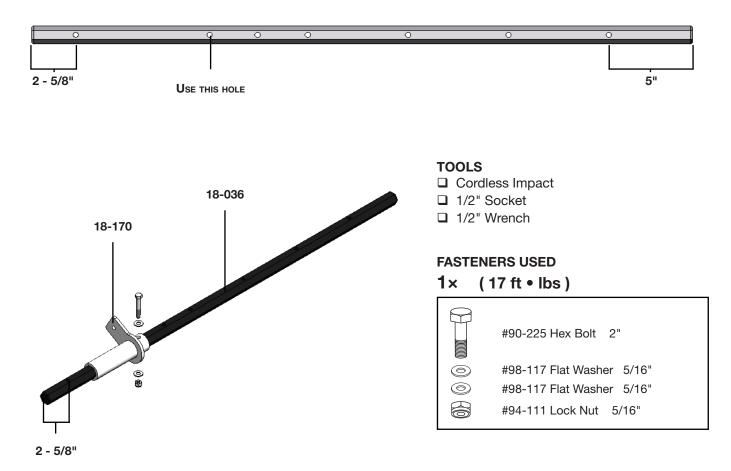




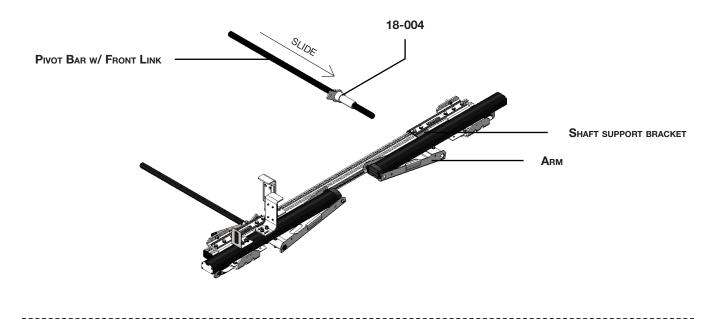
1.2.4 Attach ball stud to the frame of front mechanism.



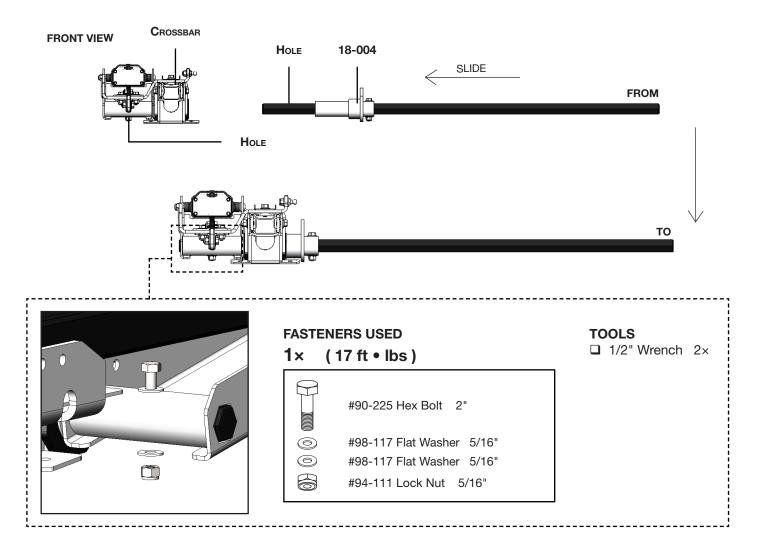
1.2.5 Attach the driver side front linkage to the pivot bar.



1.2.6 Slide the pivot bar with front linkage and spacer through the shaft support bracket and arm, then attach the pivot bar to the arm.

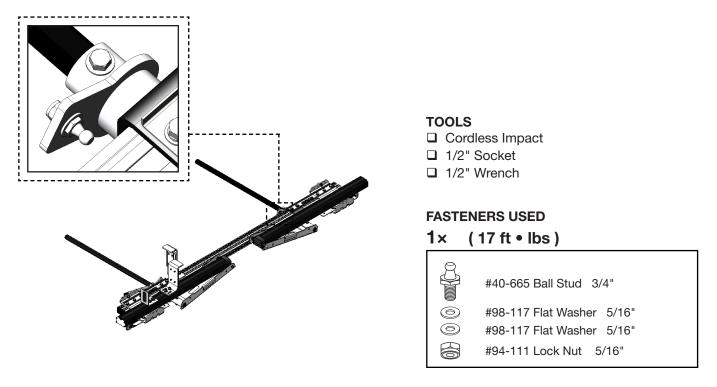


NOTE: Line up the hole of the front pivot bar to the hole of the arm.



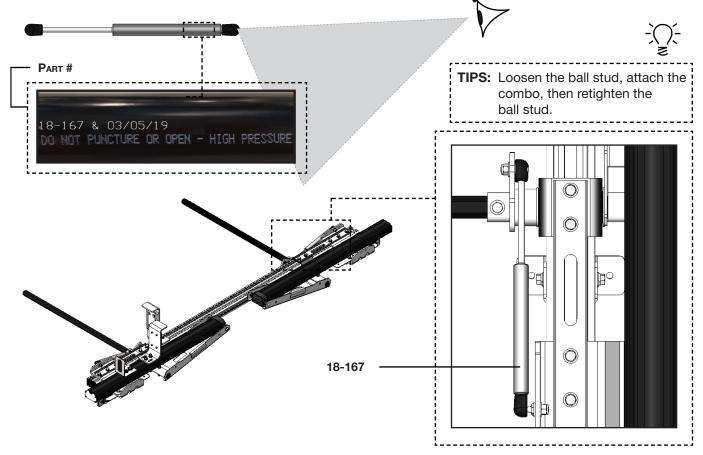


1.2.7 Attach ball stud to the driver side front linkage.



1.2.8 Attach the gas spring combo to the ball studs.

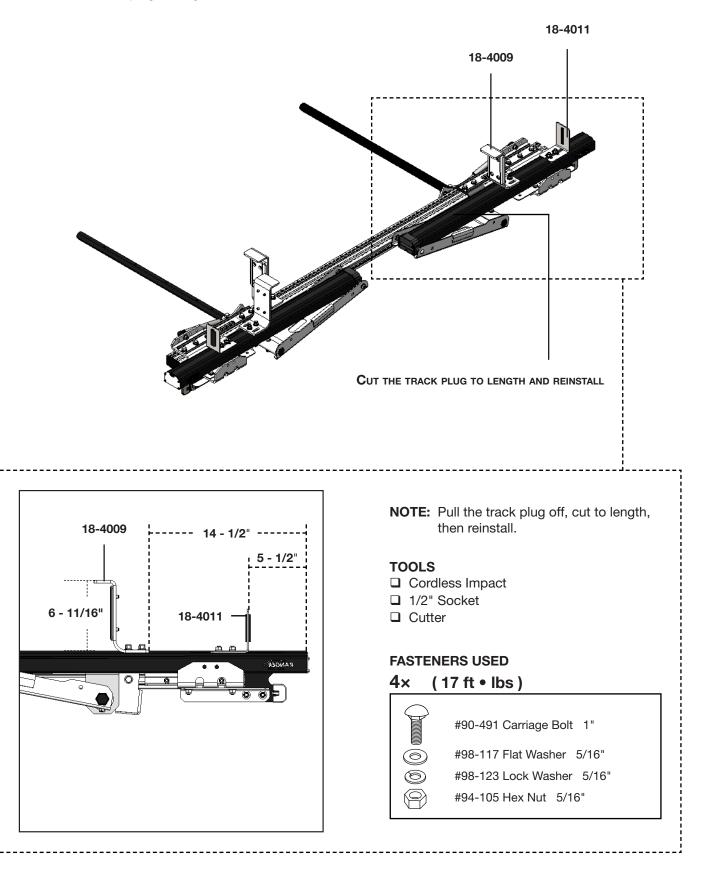
NOTE: Gas spring combo will have "18-167" printed on it.

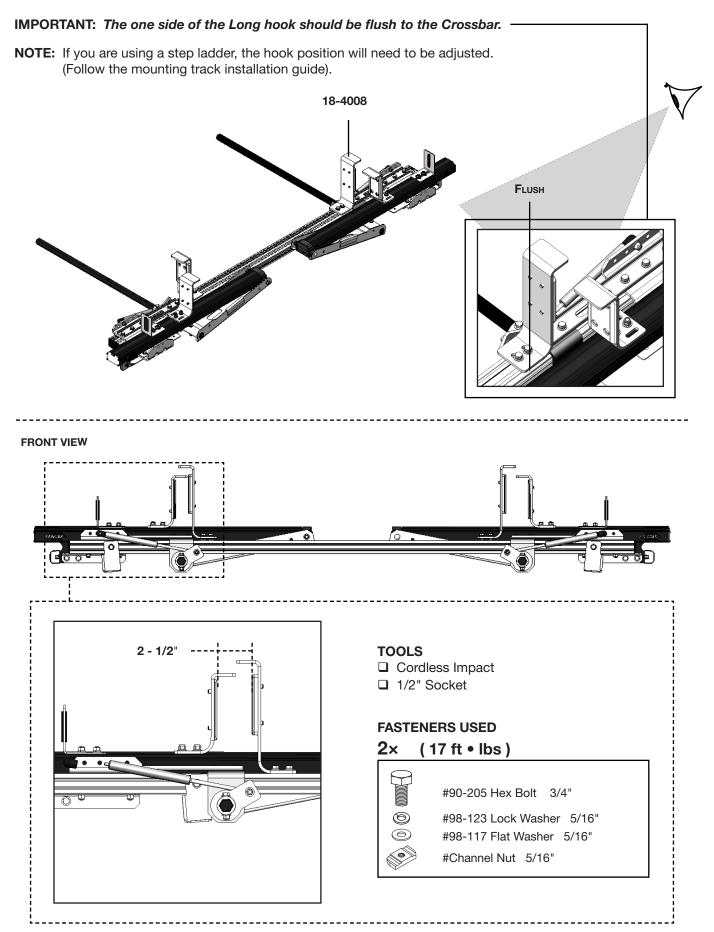




1.2.9 • Pull the track plug off.

- Attach one small hook and front ladder retainer to the front mechanism.
- Cut the track plug to length and reinstall.





PHASE 1 - ASSEMBLY

1.3 REAR CROSSBAR ASSEMBLY

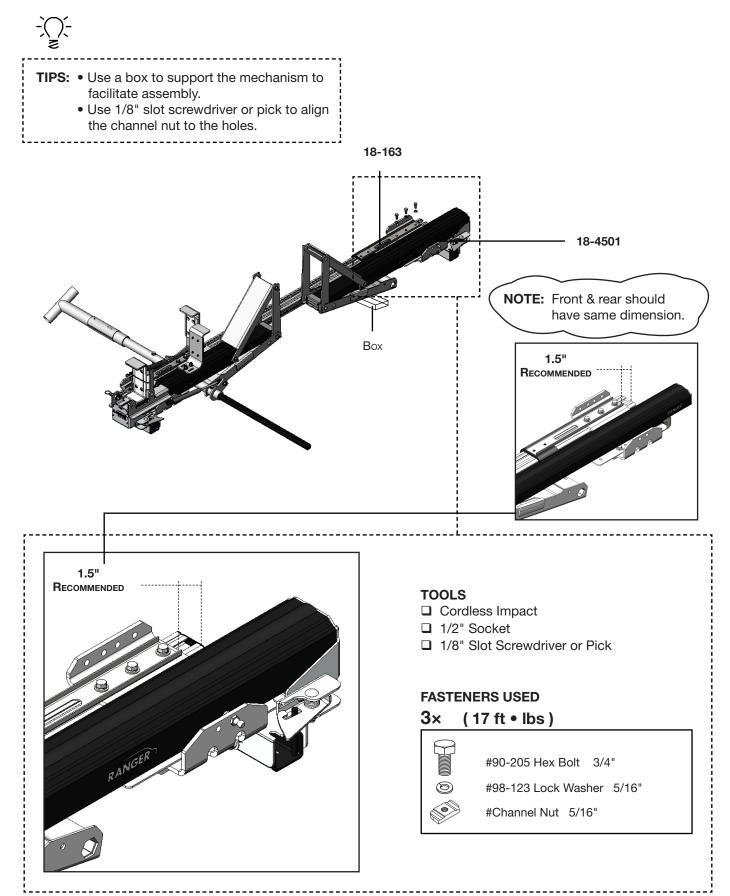
NOTE: Skip this step if you forgot to slide 2 shaft support bracket for double sided rack.

1.3.1 Remove the driver side feet, slide the shaft support bracket, then reinstall the feet.

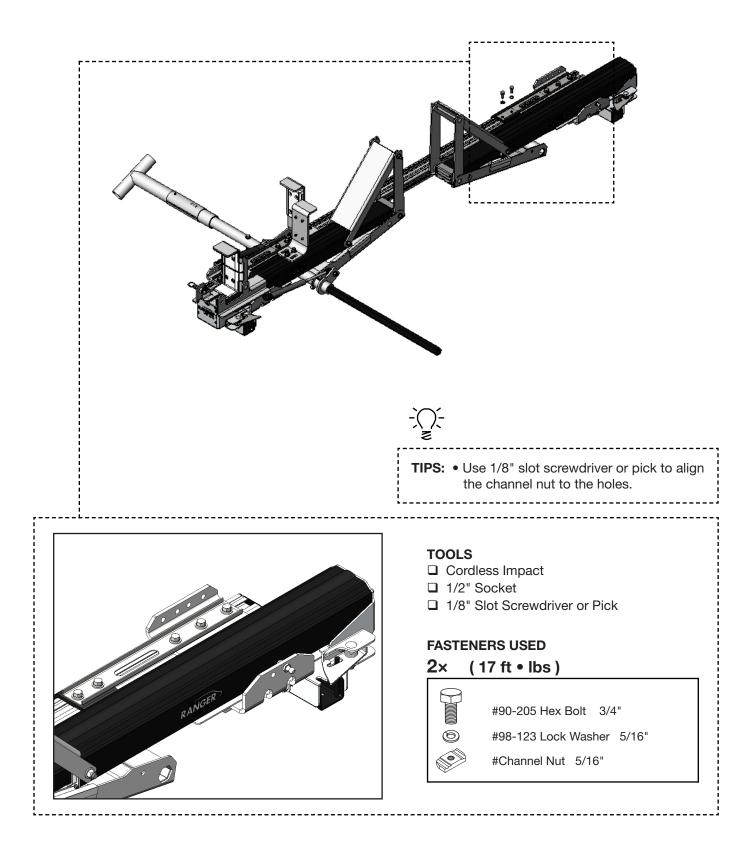
NI NIV/	DIMENSION (A)	
NISSAN NV	7"	
Sprinter	10" HIGH ROOF, 6 - 1/2" STANDARD ROOF	
TRANSIT 130" WB	8 - 7/8"	
Transit 148" & 148" ext. wb	8 - 7/8"	
PROMASTER 118" WB	7 - 1/16"	
PROMASTER 136" WB	7 - 1/16"	,,



- **1.3.2** Slide 3 channel nuts into the top channel of the crossbar.
 - Attach the driver side rear mechanism to the crossbar with washer plate using the 3 channel nuts.

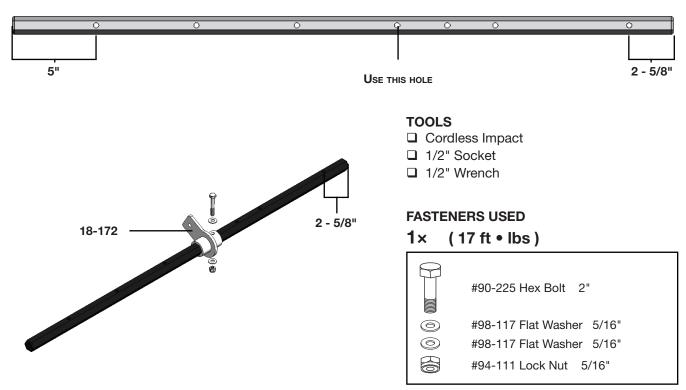


- **1.3.3** Insert 2 channel nuts into the top channel of the crossbar, then align them to the shaft support bracket holes.
 - Attach the shaft support bracket to the crossbar with the washer plate using the 2 channel nuts.



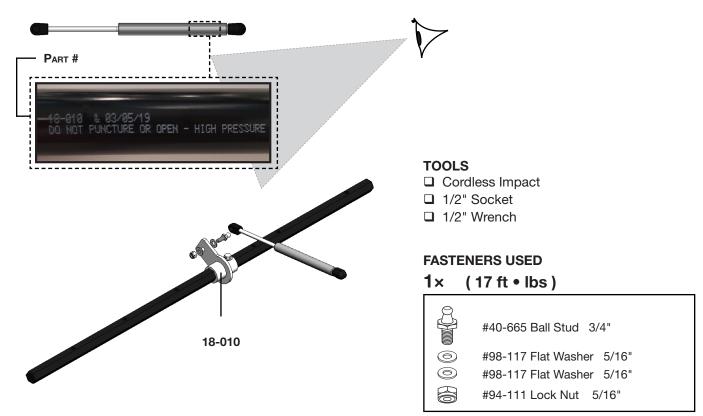


1.3.4 Attach the driver side rear linkage to the pivot bar.



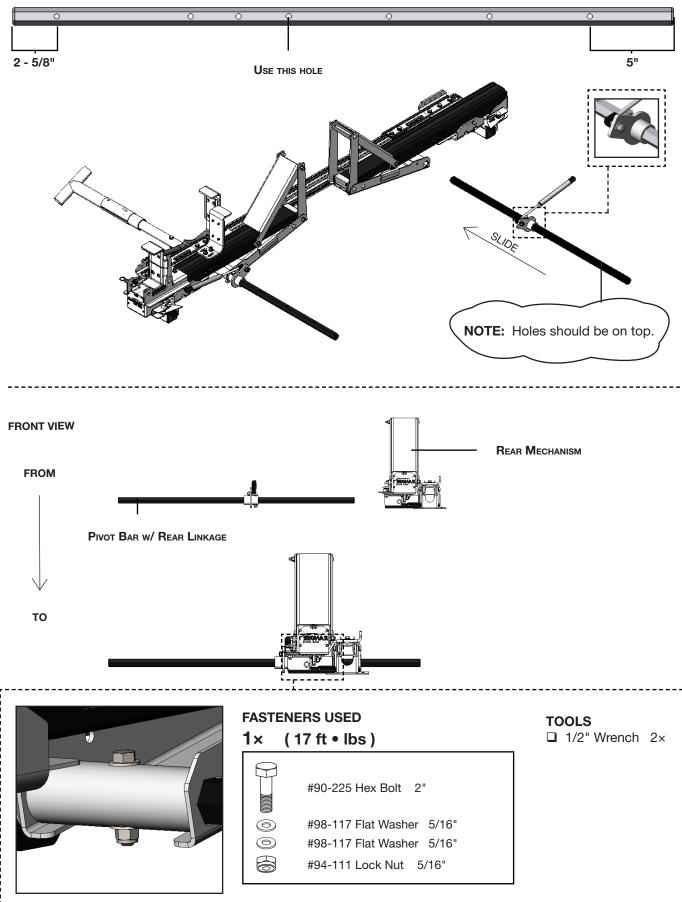
1.3.5 Attach the driver side rear linkage to the pivot bar.

NOTE: Gas spring will have "18-010" printed on it.

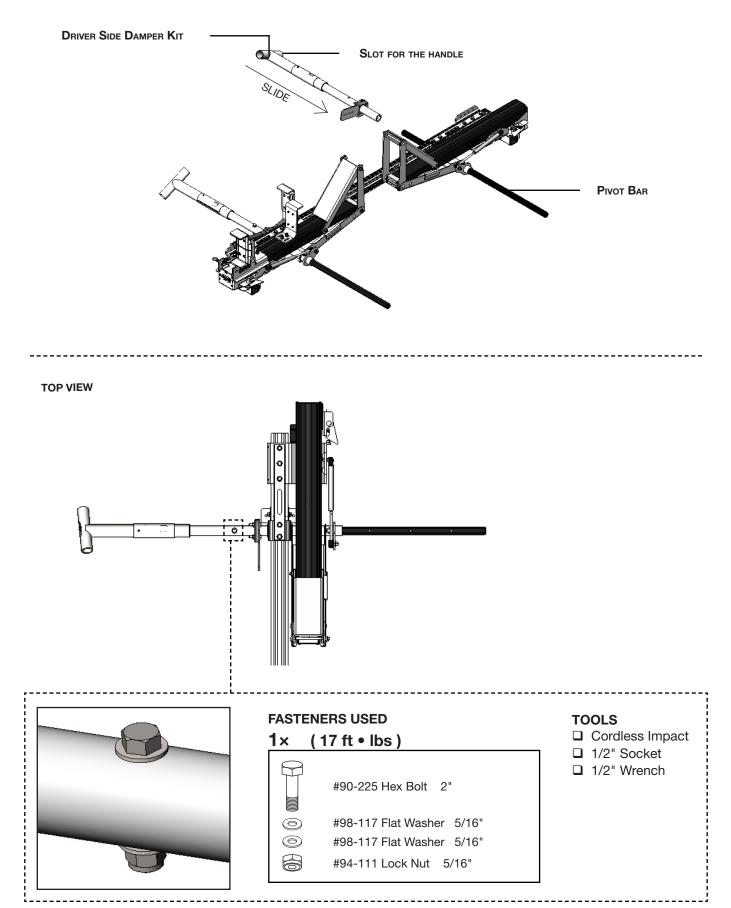




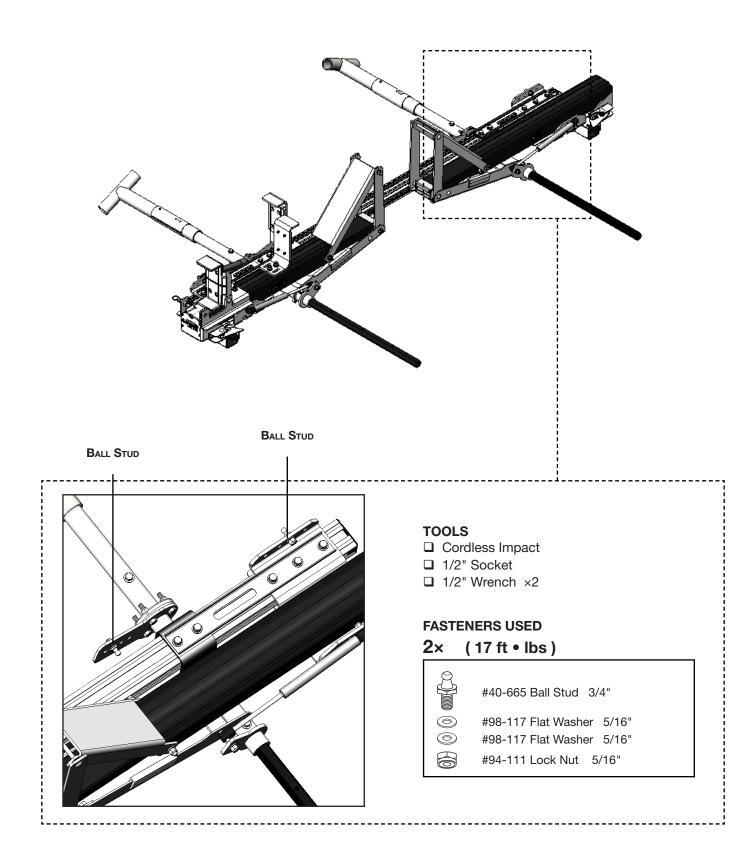
1.3.6 Slide the pivot bar with rear linkage through the arm and shaft support bracket, then attach the pivot bar to the arm.



1.3.7 Slide the driver side damper kit to the pivot bar, then attach the driver side damper kit to the pivot bar.



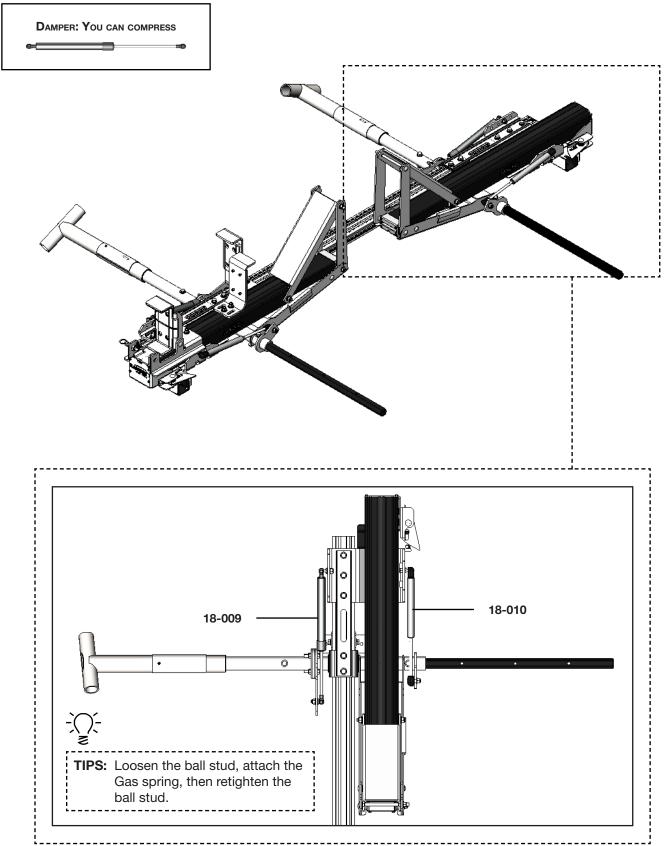
1.3.8 Attach ball stud to the driver side damper kit and rear mechanism frame.





1.3.9 Attach the damper and gas spring to the ball stud.

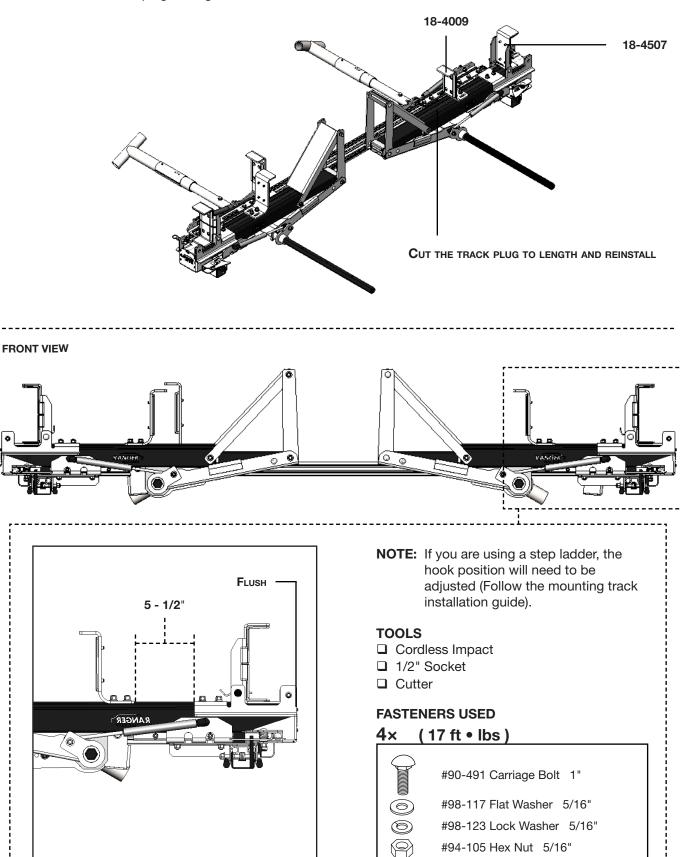






1.3.10 • Pull the track plug off.

- Attach one small hook and anti-theft lock to the rear mechanism.
- Cut the track plug to length and reinstall.



IMPORTANT: The one side of the long hook should be flush to the crossbar. **NOTE:** If you are using a step ladder, the hook position will need to be adjusted. (Follow the mounting track installation guide). FLUSH **FRONT VIEW** TOOLS 2 - 1/2" Cordless Impact □ 1/2" Socket **FASTENERS USED** 2× (17 ft • lbs) #90-205 Hex Bolt 3/4" 6 #98-123 Lock Washer 5/16" RANGER #98-117 Flat Washer 5/16" O #Channel Nut 5/16"



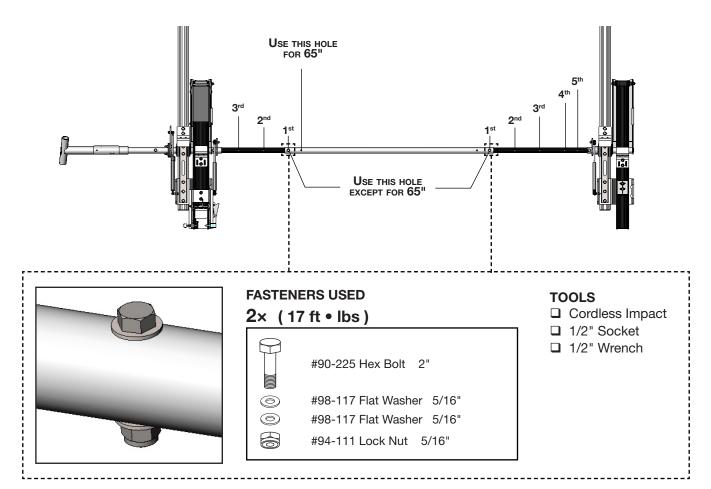
1.3.11 • Attach the long hook to the crossbar, facing to the small hook.

• Apply a bead of sllicone on the end cap, then attach the end cap to the crossbar.

PHASE 1 – ASSEMBLY 1.4 FOR ASSEMBLY WITH OVERHEAD LIFT

1.4.1 Attach the ends of the front and rear bars to the center tube.

NOTE: Skip this step if you don't have an overhead lift or if you have a Max Rack double side.



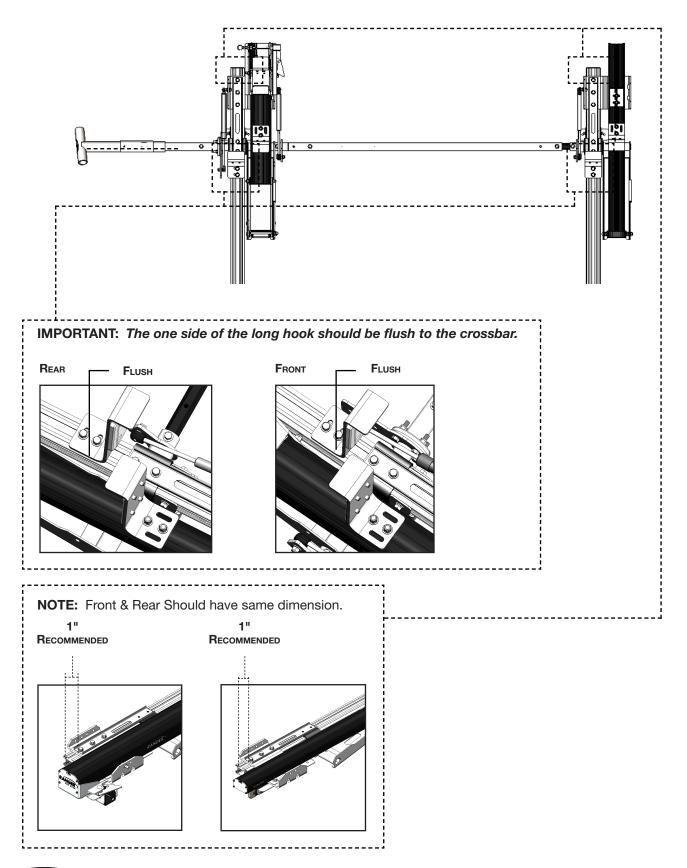
VEHICLE	CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
NISSAN NV (NH)	Maximum: 65" ($5^{TH} \& 3^{RD}$ Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Махімим: 101" (1 st & 1 st Holes)	MAXIMUM: EXTENSION 32', STEP 10'
Sprinter (DH)	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	MAXIMUM: 77" (3 RD & 3 RD HOLES)	MAXIMUM: EXTENSION 28', STEP 8'
Transit 130" wb(FTR)	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	MAXIMUM: 89" (2 ND & 2 ND HOLES)	MAXIMUM: EXTENSION 32', STEP 10'
TRANSIT 148" & 148" EXT. WB (FTL)	MINIMUM: 65" (5 [™] & 3 [№] Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Maximum: 77" (3^{RD} & 3^{RD} Holes)	MAXIMUM: EXTENSION 28', STEP 8'
PROMASTER 118" WB (PHS)	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	MAXIMUM: 89" (2^{ND} & 2^{ND} Holes)	MAXIMUM: EXTENSION 32', STEP 10'
PROMASTER 136" WB (PHM)	MINIMUM: 65" (5^{TH} & 3^{RD} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	Maximum: 101" (1 st & 1 st Holes)	MAXIMUM: EXTENSION 32', STEP 10'
Promaster 159" wb(PHL)	Мілімим: 65" (5 ^{тн} & 3 ^{ар} Holes)	MAXIMUM: EXTENSION 24', STEP 8'
	MAXIMUM: 101" (1 st & 1 st Holes)	MAXIMUM: EXTENSION 32', STEP 10'
Promaster 159" ext. wb (PHX)	MINIMUM: 65" (5 [™] & 3 [№] Holes)	MAXIMUM: EXTENSION 24', STEP 8'



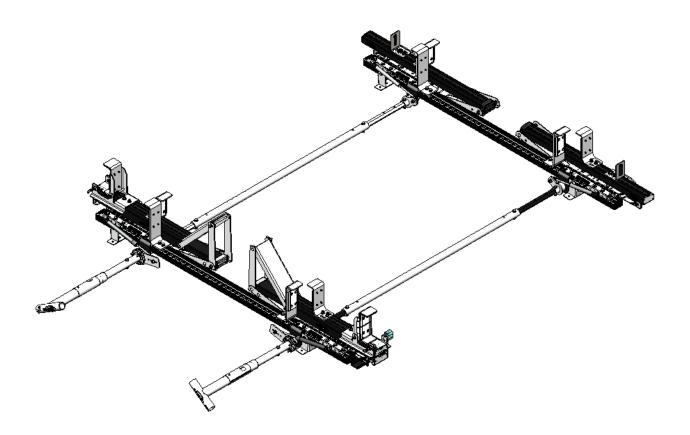
PHASE 1 – ASSEMBLY

1.5 ASSEMBLY VALIDATION

1.5.1 Validate your assembly to ensure smooth operation of your Max Rack.







"You have successfully completed Operation 3 Max Rack Driver Side Mechanism! Open the mounting track box, then follow the Install Guide of the mounting track to install the Max Rack on your vehicle.

Thank you for doing business with us."

For any feedback or suggestions you might have, please contact: <u>CS@rangerdesign.com</u>





INSTALLATION GUIDE



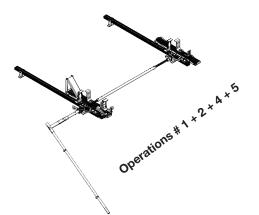
18-U0030 MOUNTING TRACKS

Ford Transit (Long / Extended Wheelbase, Standard, Medium & High Roof)

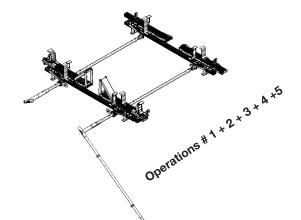


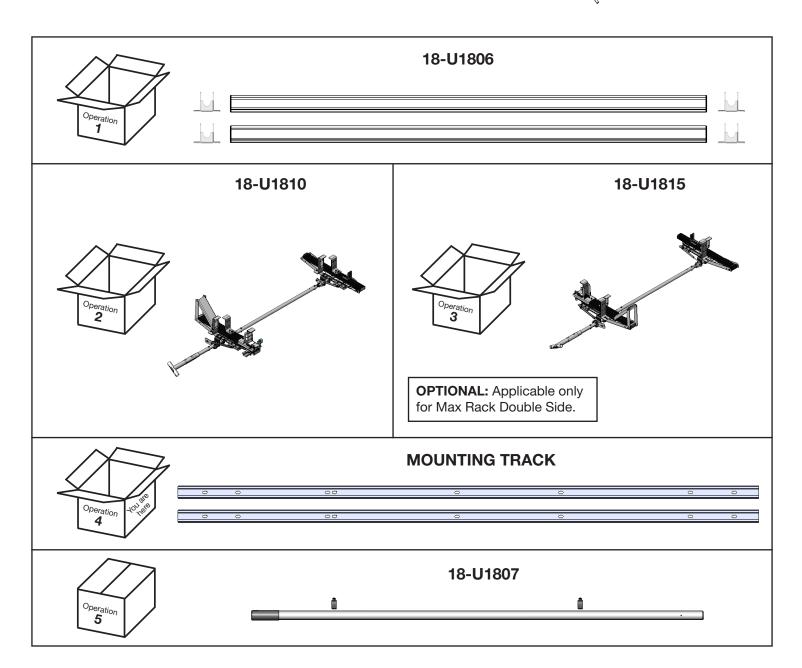
ORDER OF OPERATION

MAX RACK SINGLE SIDE



MAX RACK DOUBLE SIDE





QUICK START GUIDE

Phase 1 - Assembly

□ 1.1 Setup	o 5
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Phase 2 - Installation

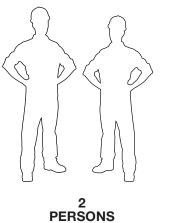
\square 2.1 Mounting Tracks installation	
□ 2.2 Max Rack installation	9

Phase 3 - Adjustment

3.1 Adjustment for Max Rack	10 to 11

REQUIRED ITEMS FOR COMPLETE MAX RACK

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

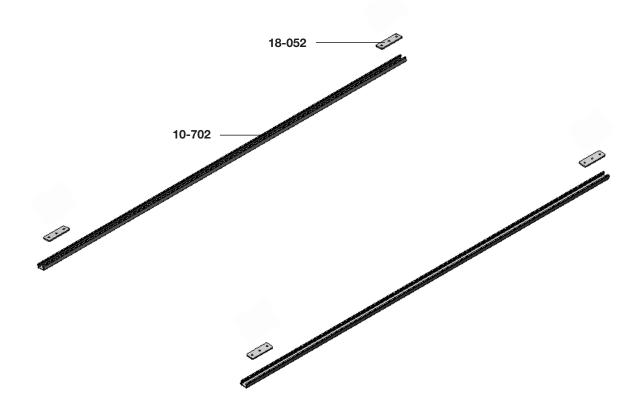


- Cordless Impact
- Ratchet
- Tape Measure
- Marker
- Ladder
- □ 1/2" Wrench
- □ 1/2" Socket
- □ Sawhorse (Optional)
- Box



PHASE 1 – ASSEMBLY 1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.

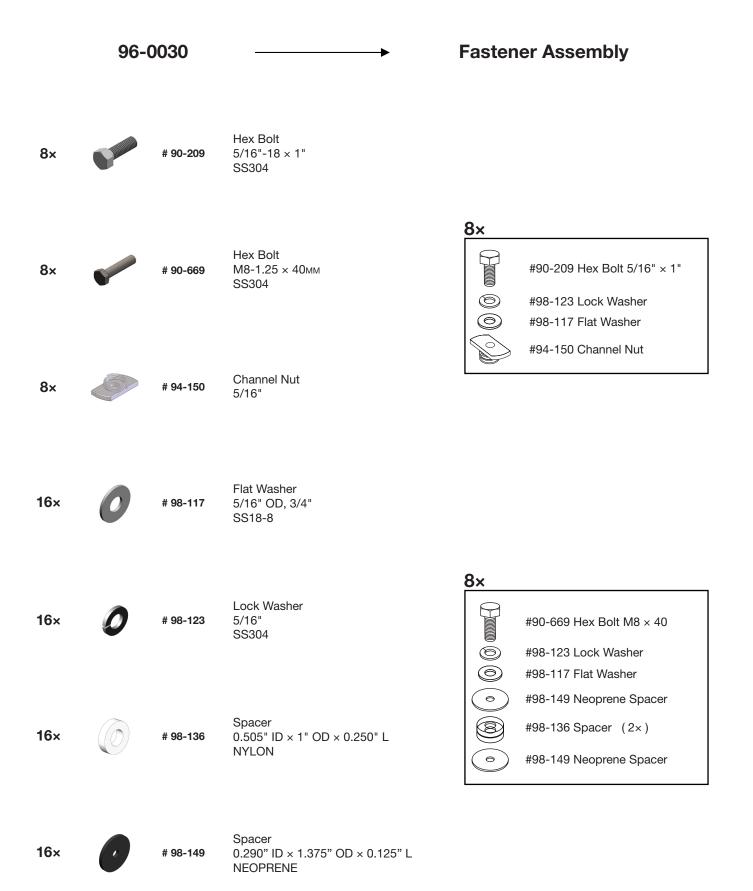


1.1.2 Verify all parts are present.

Item No.	Description	Qty.
10-702	Mounting Track 97" Long	2
18-052	Shim - Foot	4
96-0030	Fastener Kit	1



1.1.3 Identify the Assembly and Installation fastener bags.



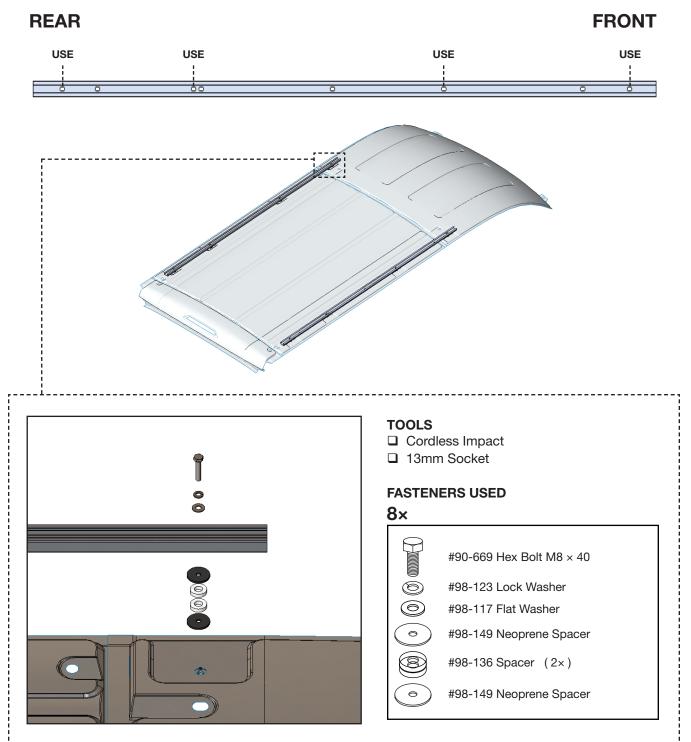


PHASE 2 – INSTALLATION

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 each hole, then fasten the tracks to the roof.
- **TIPS:** It's easier to put the bolts, lock washers, flat washers and spacers on the tracks, first, then install the tracks to the roof.

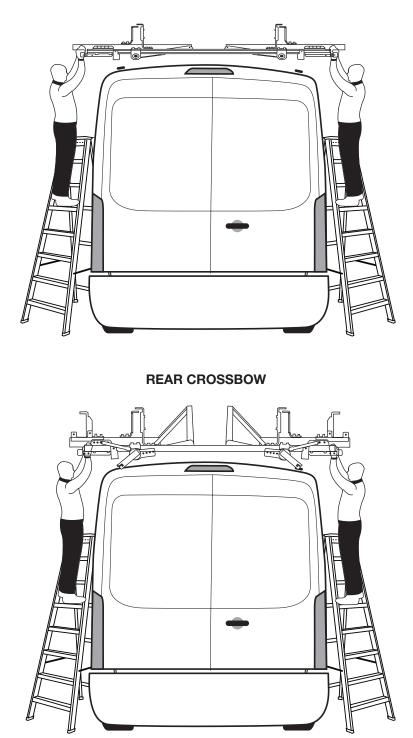
Mounting Track Orientation



PHASE 2 – INSTALLATION

2.2 MAX RACK INSTALLATION

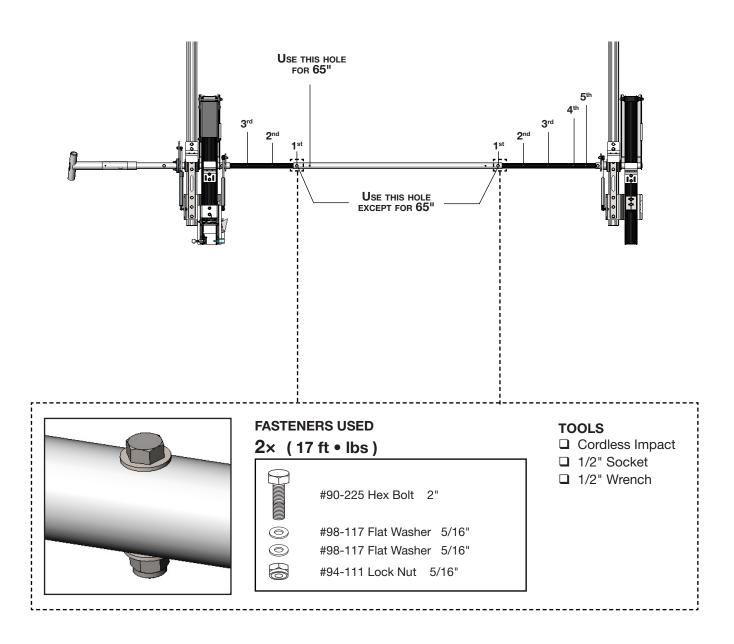
2.2.1 Position the Max Rack (**minimum two persons**) on the vehicle so that the feet are on the tracks. **NOTE:** If you do not have an overhead lift, lift the front crossbar onto the roof first then the rear crossbar.



FRONT CROSSBOW



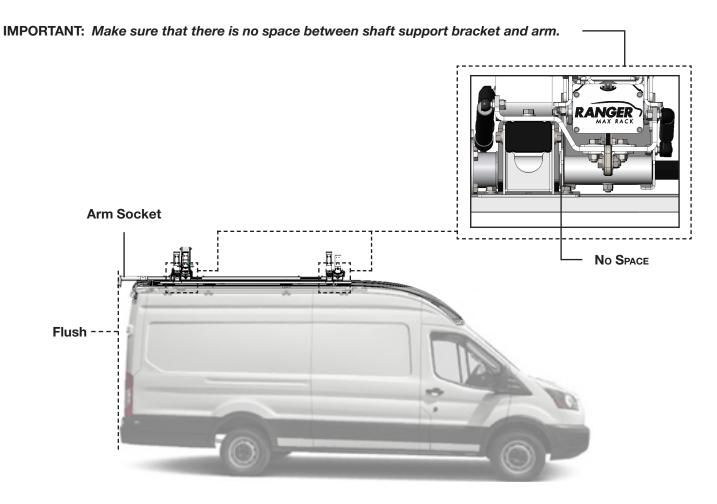
2.2.2 Attach the ends of the front and rear bars to the center tube.

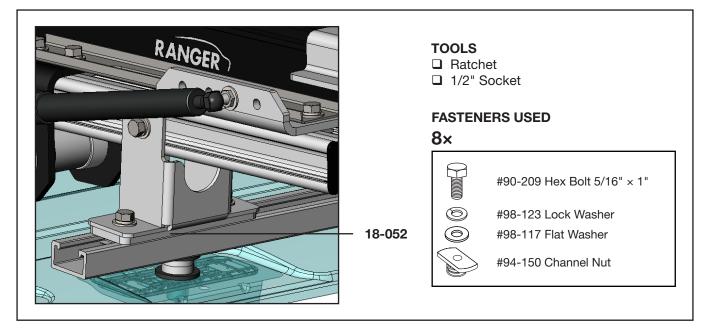


VEHICLE	CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
TRANSF 149" 8 149" FOR MR (ETL)	MAXIMUM: 89" (2^{ND} & 2^{ND} Holes)	MAXIMUM: EXTENSION 32', STEP 10'
Transit 148" & 148" ext. wb (FTL)	MINIMUM: 65" (5 [™] & 3 ^{₽D} Holes)	MAXIMUM: EXTENSION 24', STEP 8'



- **2.2.3** Align the arm socket to the rear bumper of the vehicle.
 - Attach all the feet w/ shim to the mounting tracks.
- **NOTE:** These conditions must be respected:
 - The arm socket and the ladder cannot extend beyond the rear bumper of the vehicle.
 - The center of the ladder must be behind the front hook when the ladder is loaded.



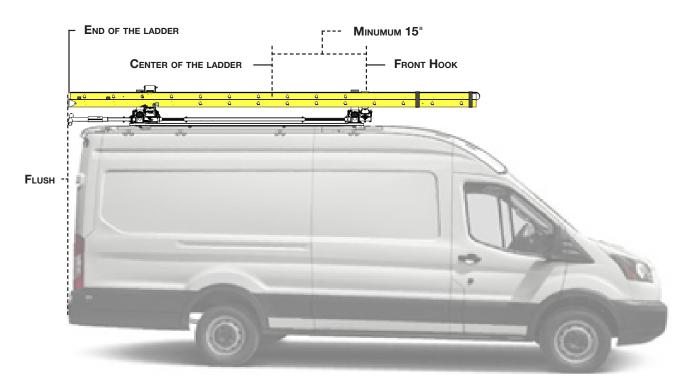


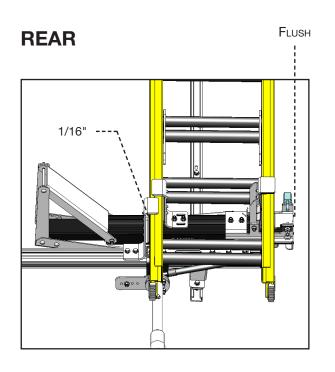


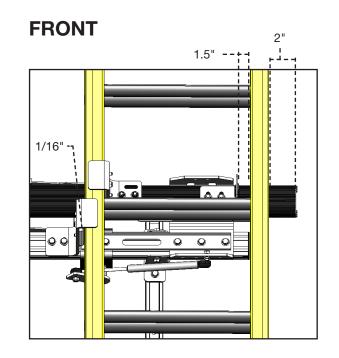
PHASE 3 – ADJUSTMENT

3.1 ADJUSTMENT FOR MAX RACK

- **3.1.1** Place the Max Rack in the down position.
 - Load the ladder onto the Max Rack.
- **NOTE:** These conditions must be respected:
 - The arm socket and the ladder cannot extend beyond the rear bumper of the vehicle.
 - The center of the ladder must be behind the front hook when the ladder is loaded.









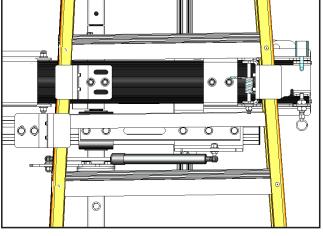
STEP LADDER INSTALLATION

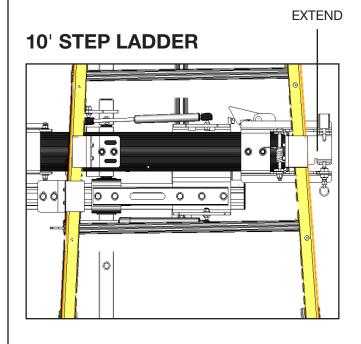
NOTE: These conditions must be respected:

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



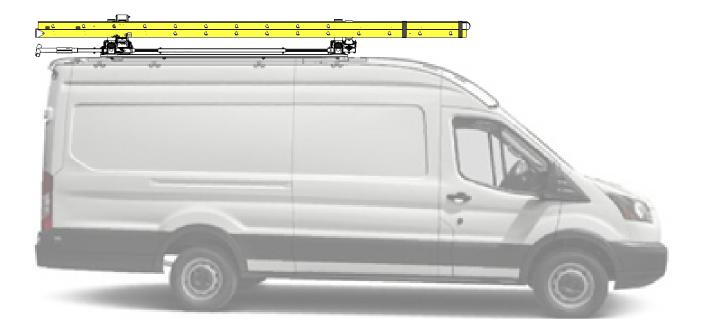
8' STEP LADDER







- **NOTE: •** Ensure that everything is safely assembled and fastened.
 - With the ladder locked, operate your Max Rack a few times, while carefully observing the moving parts.



"Congratulations, you have successfully installed your Mounting Tracks and your completed Rack on your vehicle!

Thank you for doing business with us."

For any feedback or suggestions you might have, please contact: <u>CS@rangerdesign.com</u>



