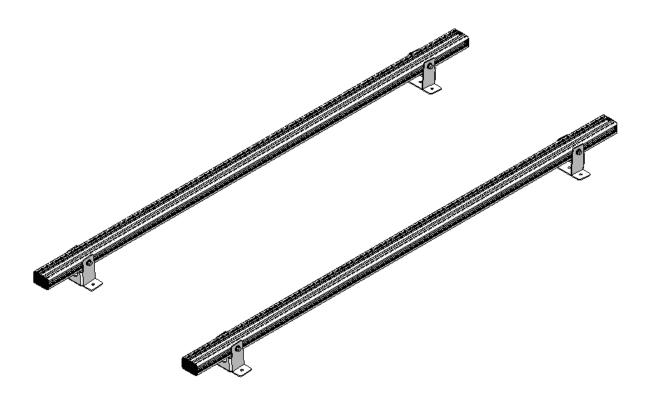
# **INSTALLATION GUIDE**



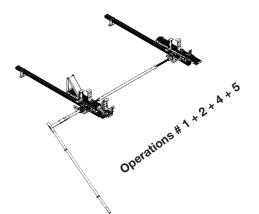
# 18-U1806 Max Rack Crossbar

(Max Rack)

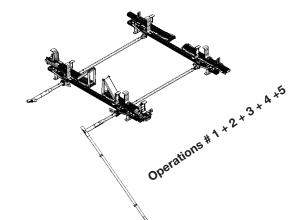


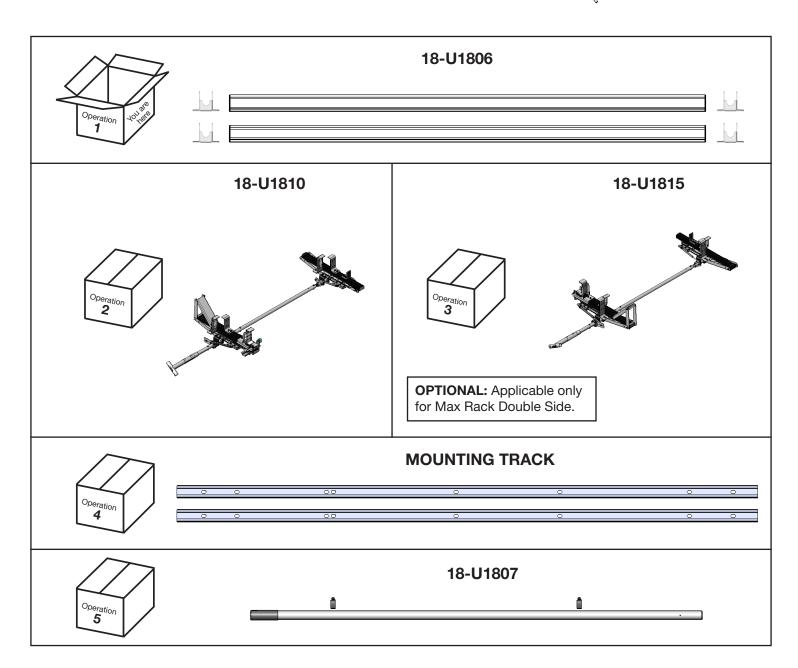
# **ORDER OF OPERATION**

### MAX RACK SINGLE SIDE



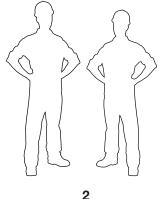
### MAX RACK DOUBLE SIDE





## **REQUIRED ITEMS FOR COMPLETE MAX RACK**

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

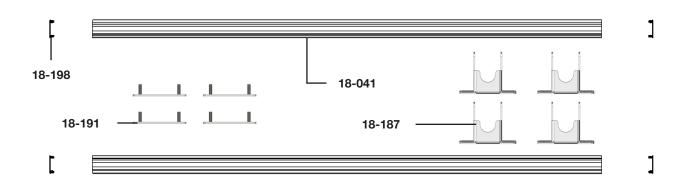


- Cordless Impact
- Ratchet
- Tape Measure
- Marker
- Ladder
- □ 1/2" Wrench
- □ 1/2" Socket
- □ Sawhorse (Optional)
- Box

2 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.

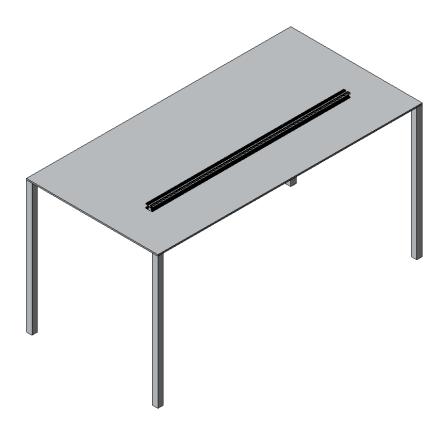
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Item No.	Description	Qty.
18-187	Foot	4
18-041	Max Rack Crossbar	2
18-198	End Plastic Plug	4
18-191	Stud Plate	4
94-1806	Fastener kit	1



# **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."

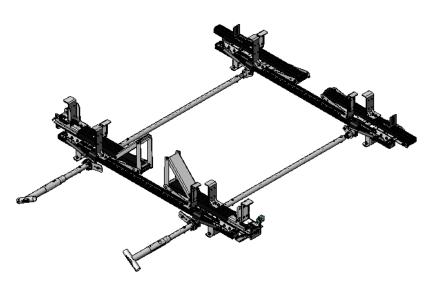
For any feedback or suggestions you might have, please contact: <u>CS@rangerdesign.com</u>



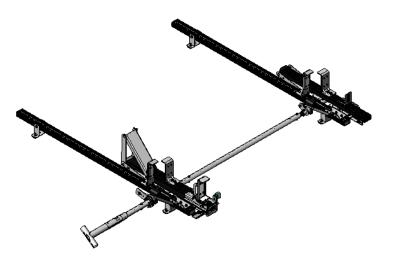


# **INSTALLATION GUIDE**

## MAX RACK DOUBLE SIDE



**RACK SINGLE SIDE** 



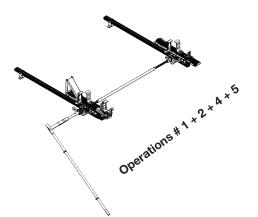
# 18-U1810 Max Rack

Passenger Side 39" Drop Height From The Roof

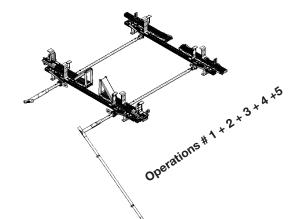


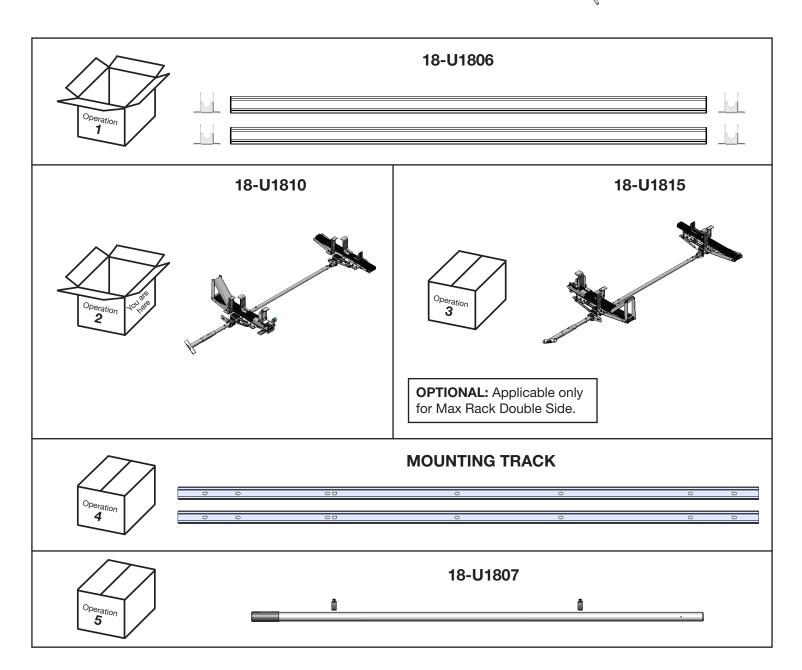
# **ORDER OF OPERATION**

### MAX RACK SINGLE SIDE



### MAX RACK DOUBLE SIDE





# **QUICK START GUIDE**

### Phase 1 - Assembly

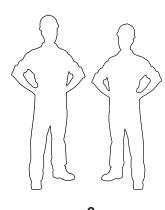
□ 1.1 Setup	4 - 5
□ 1.2 Front Crossbar Assembly	6 - 11
□ 1.3 Rear Crossbar Assembly	
□ 1.4 For Assembly With Overhead Lift	
□ 1.5 Assembly Validation	

### Phase 2 - Ladder Installation

2.1 Extension Ladder Installation	23
□ 2.2 Step Ladder Installation	24

## **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.



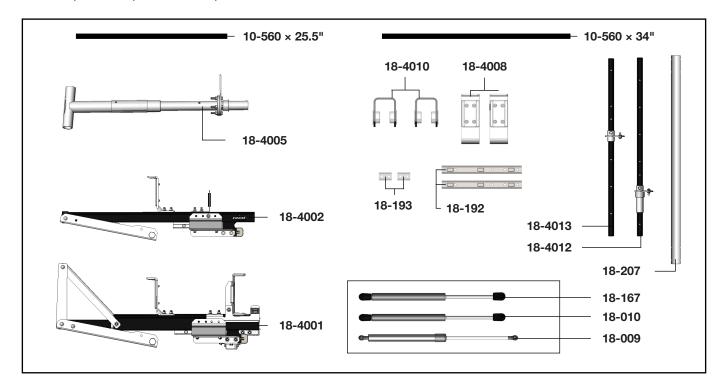
2 PERSONS

- 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

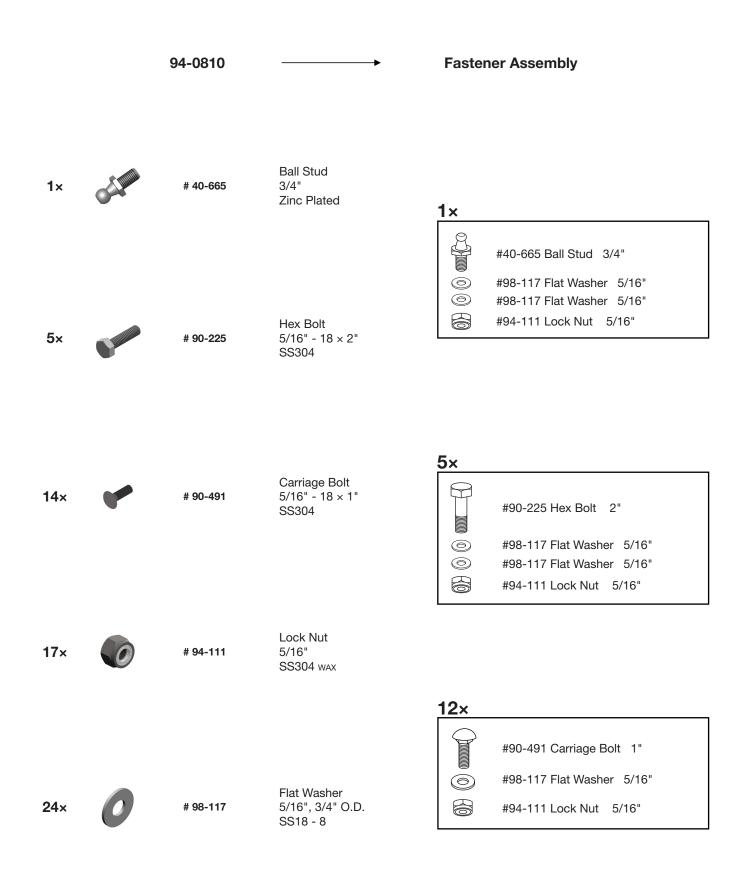
**1.1.1** Unpack components; compare with the bill of materials.



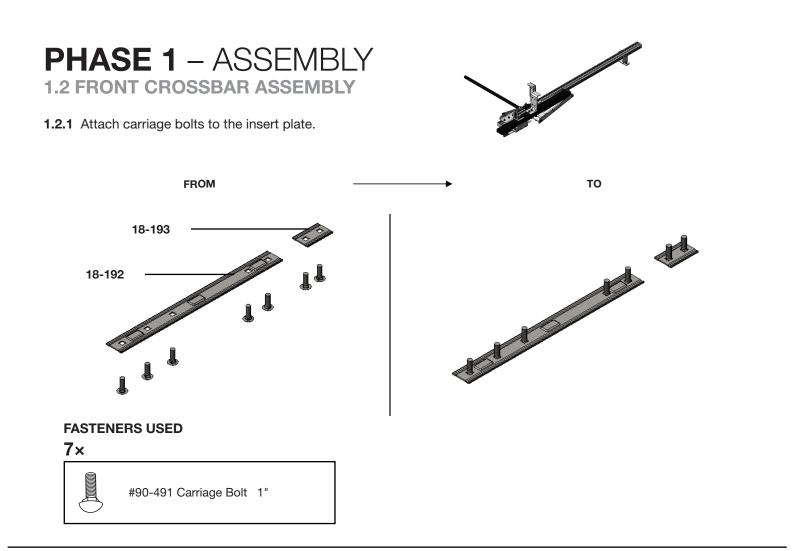
**1.1.2** Verify all parts are present.

Item No.	Description	Qty.
18-009	Damper	1
18-010	Gas Spring	1
18-207	Center Tube	1
18-167	Gas Spring Combo	1
18-192	Insert Plate, 5 Bolts	2
18-193	Insert Plate, 2 Bolts	2
18-4013	PS - Rear Linkage	1
18-4012	PS - Front Linkage	1
18-4001	Passenger Side Rear Mechanism	1
18-4002	Passenger Side Front Mechanism	1
18-4005	Passenger Side Damper kit	1
18-4008	Long Hook	2
18-4010	Shaft Support Bracket	2
10-560×25.5"	Track Plug (25.5")	1
10-560×34"	Track Plug (34")	1
94-0810	Customer Assembly Fastener Kit	1

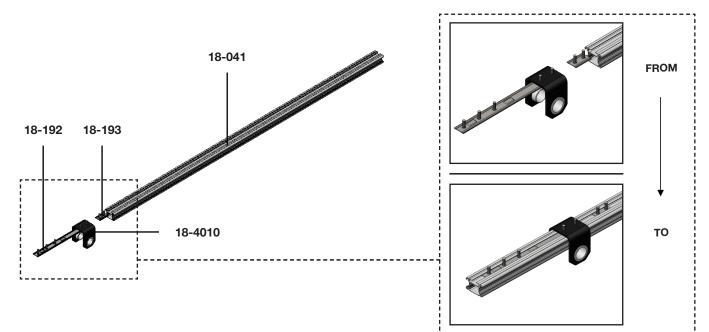








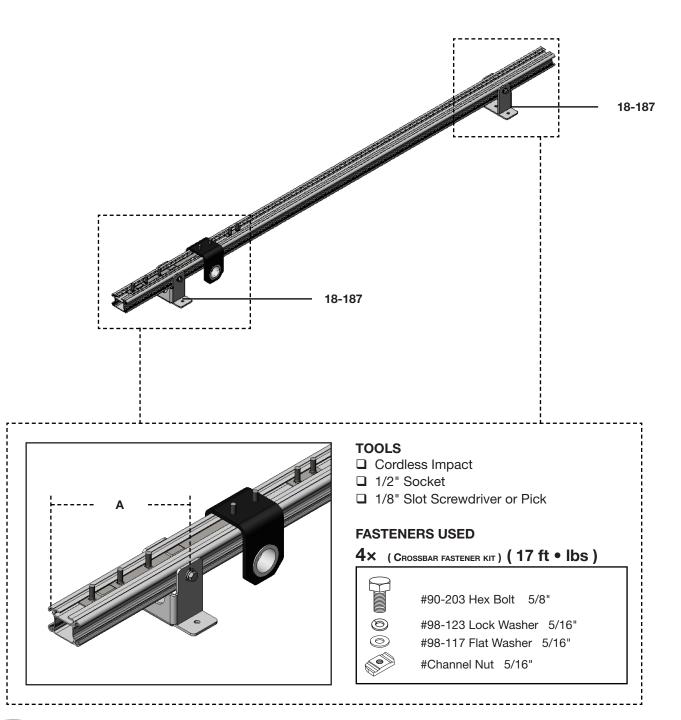
- $\ensuremath{\textbf{1.2.2}}$  Slide the insert plate to the crossbar w/ shaft support bracket.
- **NOTE:** Repeat this step on the other side of the crossbar if you are assembling a double sided rack.





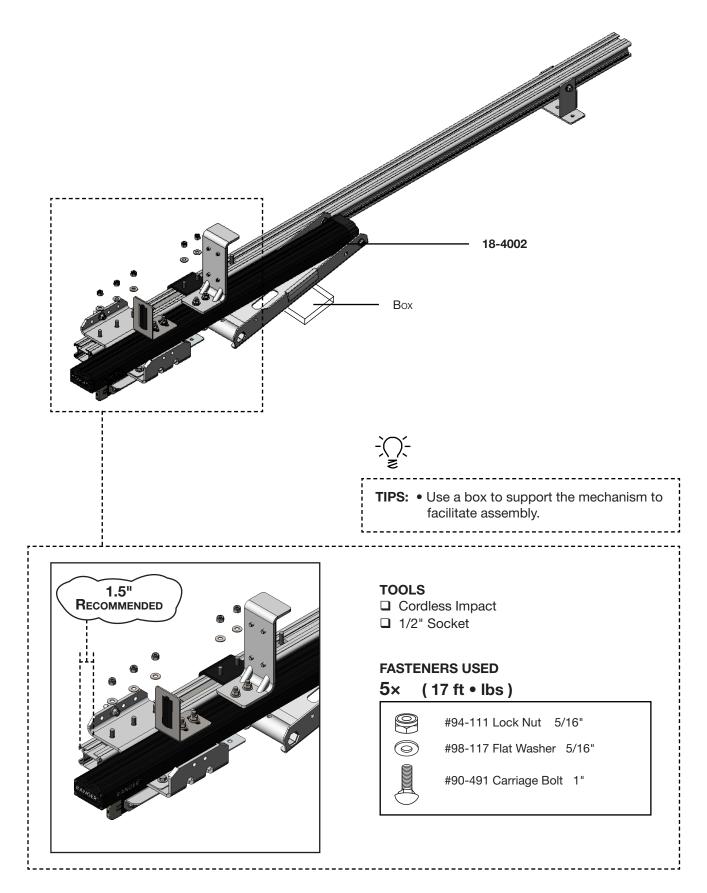
### 1.2.3 Attach the 2 feet to the crossbar.

FOOT PLACEMENT GUIDE		
VEHICLE DIMENSION (A)		
NISSAN NV	7"	
Sprinter	10" HIGH ROOF, 6 - 1/2" STANDARD ROOF	
Transit	8 - 7/8"	
PROMASTER	7 - 1/16"	





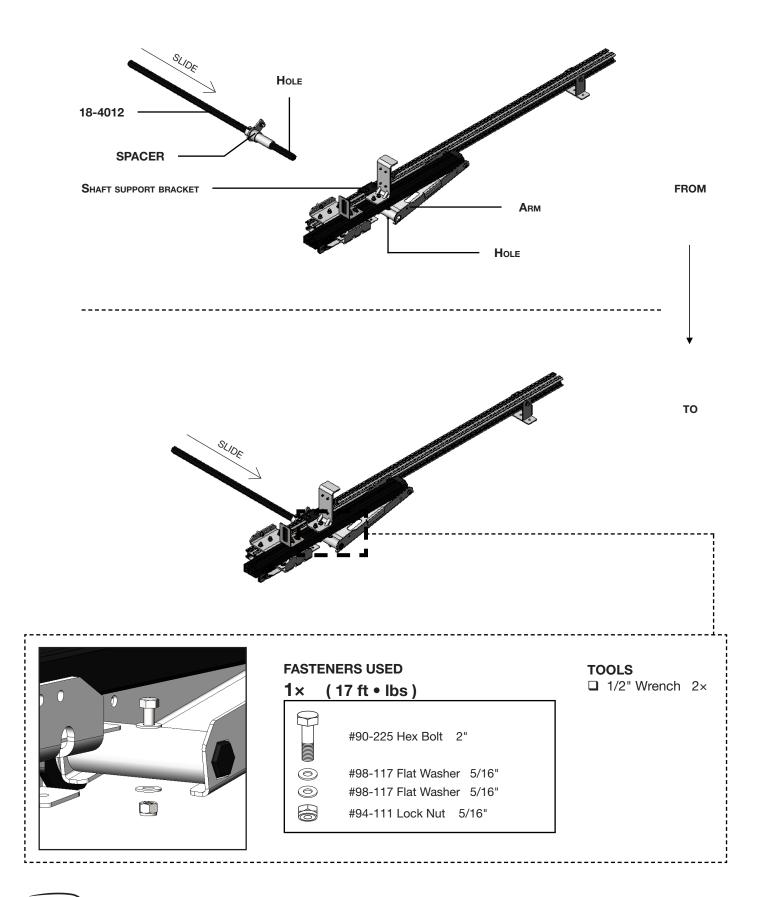
**1.2.4** Attach the passenger side front mechanism to the crossbar using the insert plate w/ 5 holes, then add flat washers and lock nuts to the shaft support bracket.





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

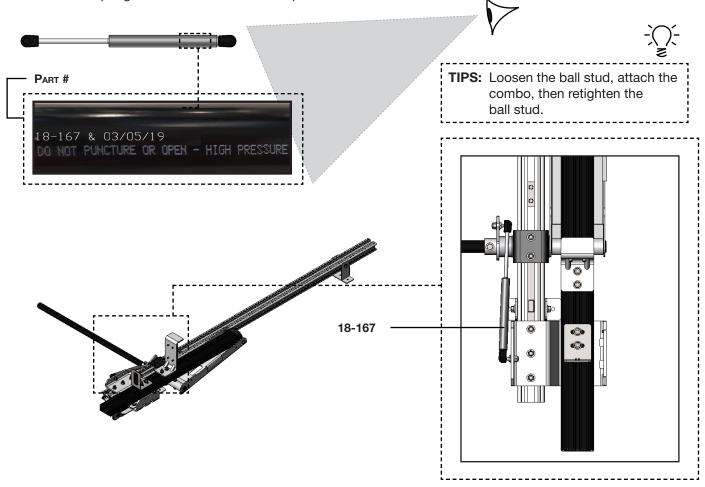
**NOTE:** Line up the hole of the front pivot bar to the hole of the arm.



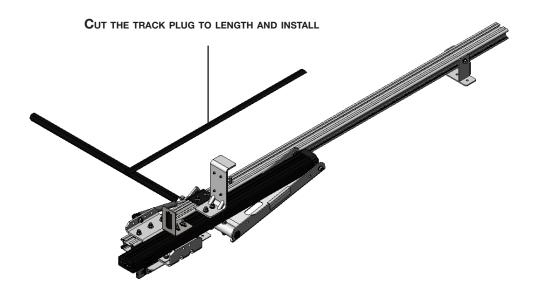
RANGER

**1.2.6** Attach the gas spring combo to the ball studs.

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

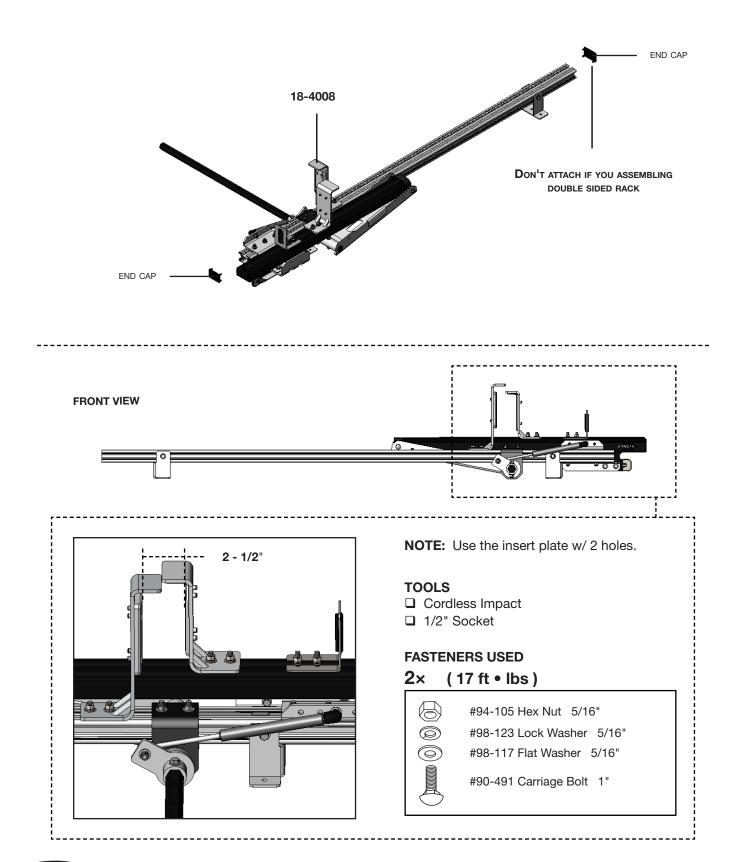


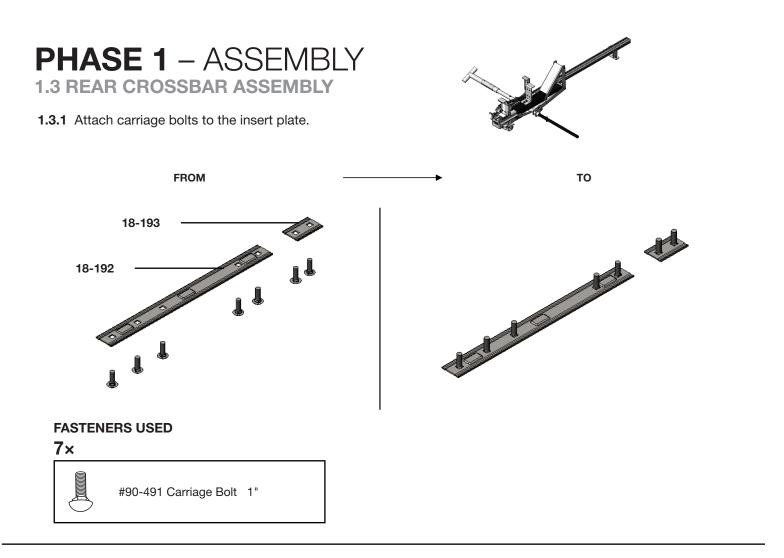
- **1.2.7** Attach one small hook and front ladder retainer to the front mechanism.
  - Cut the track plug to length and install.



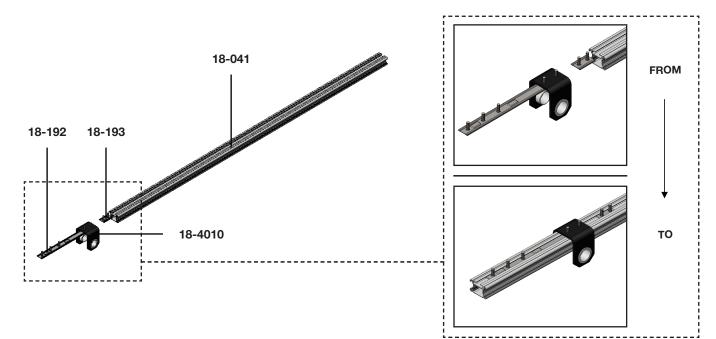


- **1.2.8** Attach the long hook to the crossbar, facing to the small hook.
- **NOTE:** If you are using a step ladder, the hook position will need to be adjusted. (Follow the mounting track installation guide).





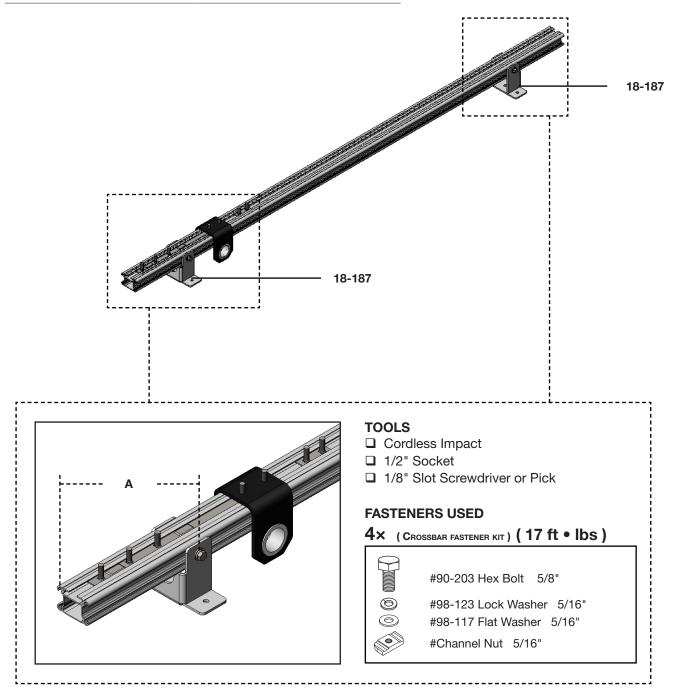
- **1.3.2** Slide the insert plate to the crossbar w/ shaft support bracket.
- **NOTE:** Repeat this step on the other side of the crossbar if you are assembling a double sided rack.





**1.3.3** Attach the 2 feet to the crossbar.

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"		
PROMASTER 159" WB	7 - 1/16"		
PROMASTER 159" EXT. WB	7 - 1/16"		



RANGER

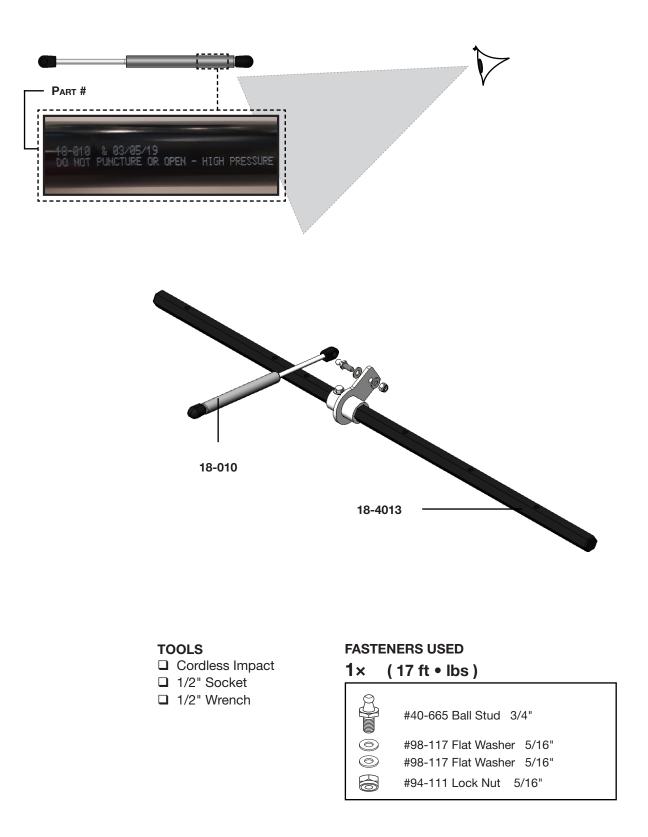
-----**TIPS:** • Use a box to support the mechanism to facilitate assembly. -------**NOTE:** Front & rear should have same dimension. 18-4001 Box 1.5' RECOMMENDE -----TOOLS 1.5" Cordless Impact RECOMMENDED □ 1/2" Socket **FASTENERS USED** 5× (17 ft • lbs) Ø #94-111 Lock Nut 5/16" 6 #98-117 Flat Washer 5/16" #90-491 Carriage Bolt 1"



RANGER

**1.3.5** Attach the gas spring to the rear linkage.

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



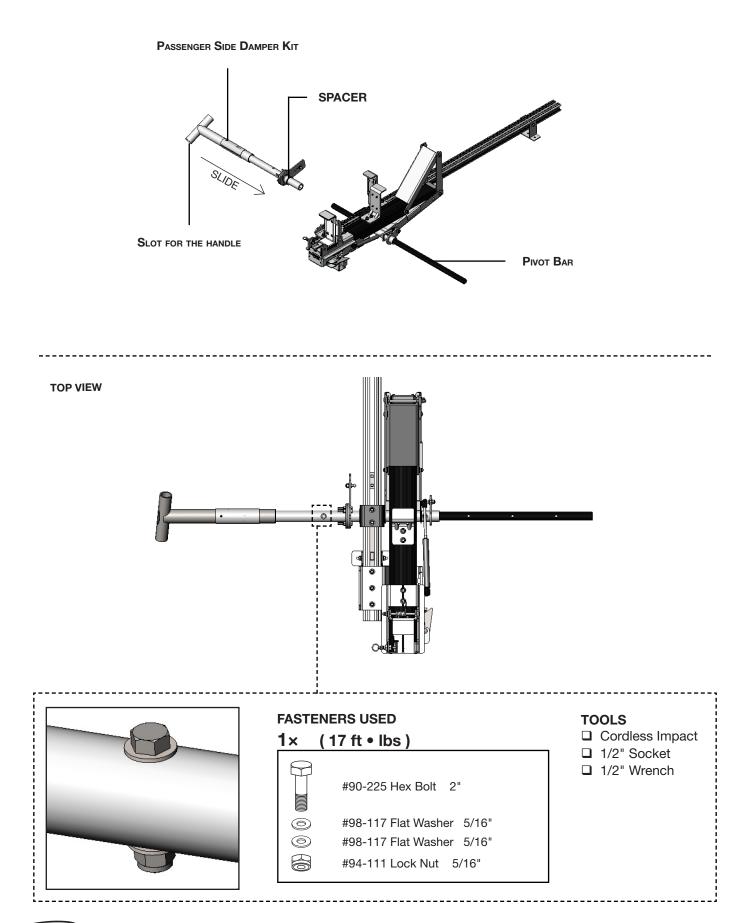


- 5" 2 - 5/8" USE THIS HOLE FROM SLIDE **NOTE:** Holes should be on top. то -----**FASTENERS USED** TOOLS □ 1/2" Wrench 2× 1× (17 ft • lbs) #90-225 Hex Bolt 2" #98-117 Flat Washer 5/16" 0 0 #98-117 Flat Washer 5/16" Ho #94-111 Lock Nut 5/16" DON'T CONNECT YET
- **1.3.6** Slide the pivot bar with rear linkage through the arm and shaft support bracket, then attach the pivot bar to the arm.



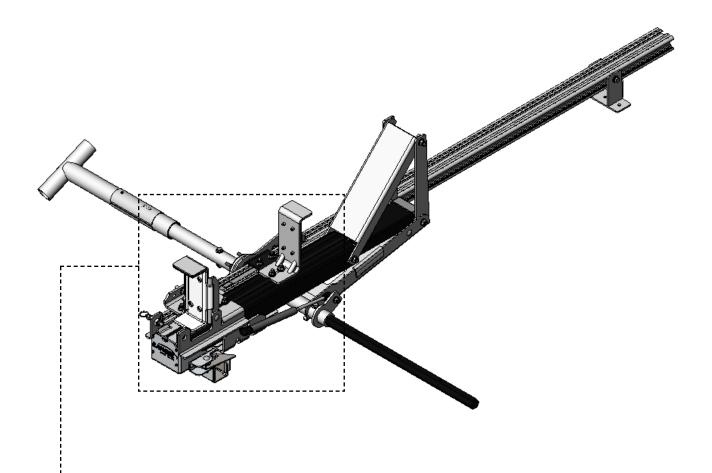
RANGER

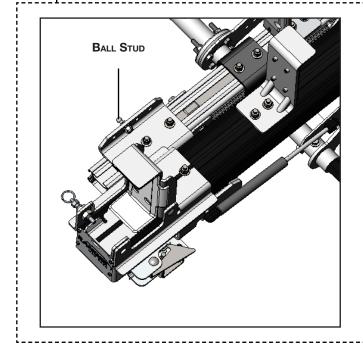
**1.3.7** Slide the passenger side damper kit to the pivot bar, then attach the passenger side damper kit to the pivot bar.



RANGER

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





#### TOOLS

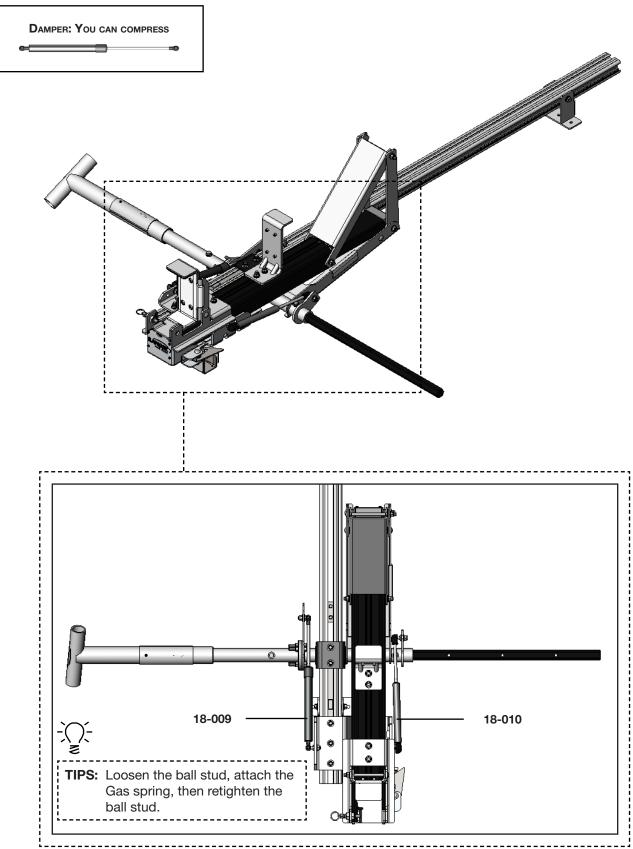
- Cordless Impact
- □ 1/2" Socket
- □ 1/2" Wrench ×2

### **FASTENERS USED**

- 2× (17 ft • lbs)
  - #40-665 Ball Stud 3/4" #98-117 Flat Washer 5/16" 0 0
    - #98-117 Flat Washer 5/16"
  - Ho #94-111 Lock Nut 5/16"

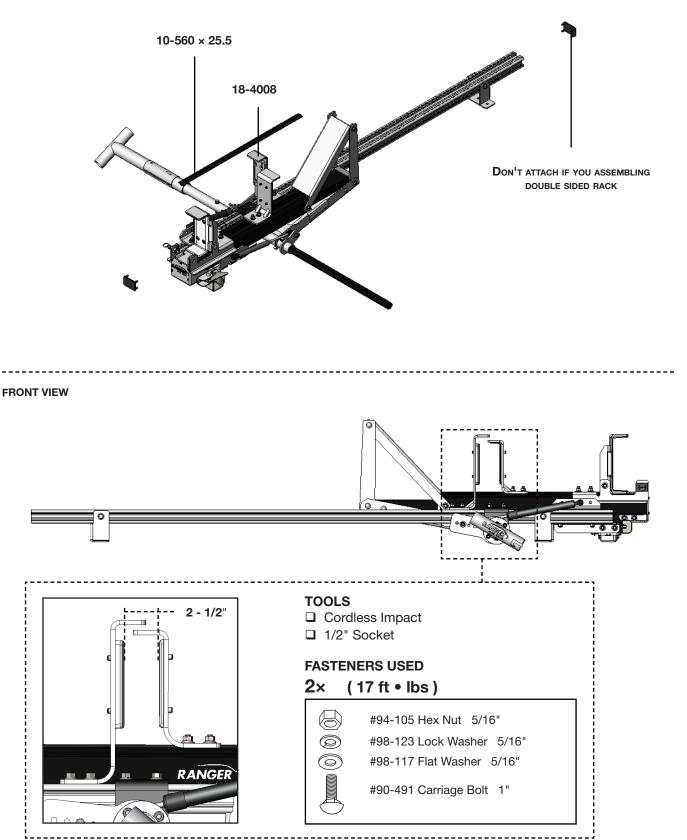
**1.3.9** Attach the damper and gas spring to the ball stud.







- **1.3.10** Attach the long hook to the crossbar, facing to the small hook.• Cut the track plug to length and install.
- **NOTE:** If you are using a step ladder, the hook position will need to be adjusted. (Follow the mounting track installation guide).

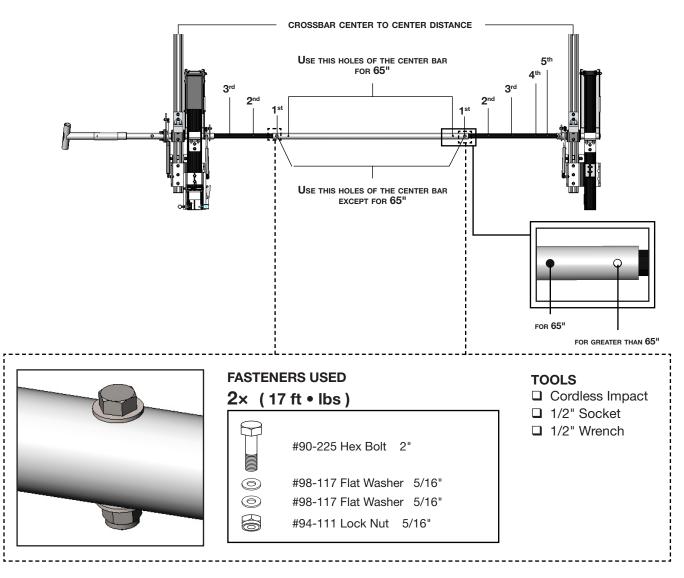




## **PHASE 1** – ASSEMBLY 1.4 FOR ASSEMBLY WITH OVERHEAD LIFT

**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.



#### **RECOMMENDED SET-UP**

CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
65" ( 3 <sup>№</sup> & 4 <sup>™</sup> Holes )	Up to Extension 24' & Step 8' to 10' only
65" ( 3 <sup>№</sup> & 4 <sup>™</sup> Holes )	UP TO EXTENSION 24' & STEP 8' TO 10' ONLY
65" ( 3 <sup>RD</sup> & 3 <sup>RD</sup> HOLES )	Up to Extension 24' & Step 8' to 10' only
65" ( $3^{RD}$ & $3^{RD}$ Holes)	Up to Extension 24' & Step 8' to 10' only
	65" ( 3 <sup>№</sup> & 4 <sup>™</sup> Holes ) 65" ( 3 <sup>№</sup> & 4 <sup>™</sup> Holes ) 65" ( 3 <sup>№</sup> & 3 <sup>№</sup> Holes )

### FOR LONGER EXTENSION LADDER SET-UP

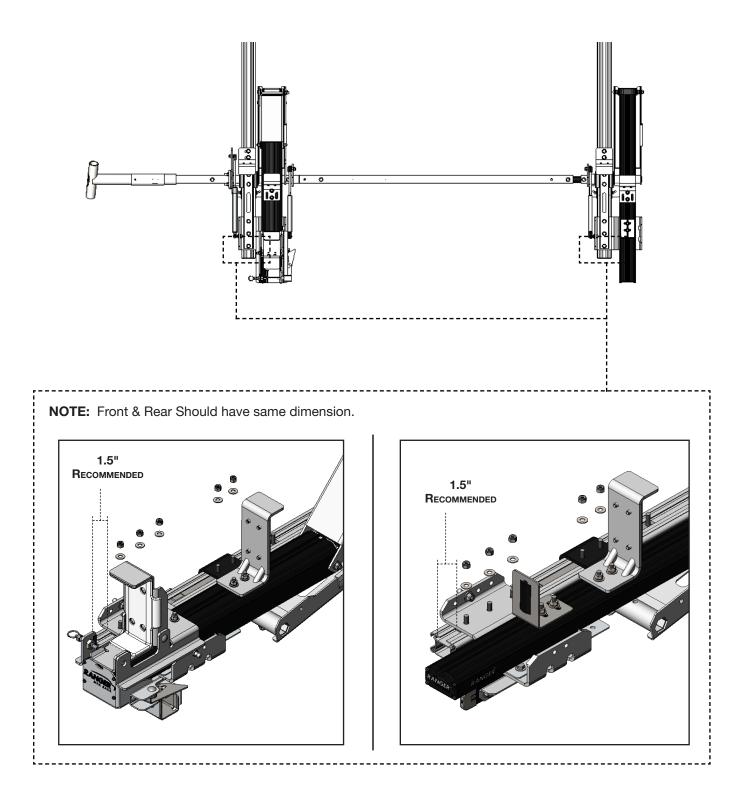
WORKS ONLY ON: FORD TRANSIT ( 148" & 148" EX. WB ), RAM PROMASTER ( 136", 159" & 159" EX. WB ) & MERCEDES-BENS SPRINTER.

CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
89" ( $2^{ND}$ & $2^{ND}$ Holes)	Up to Extension 32'



# **PHASE 1** – ASSEMBLY 1.5 ASSEMBLY VALIDATION

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





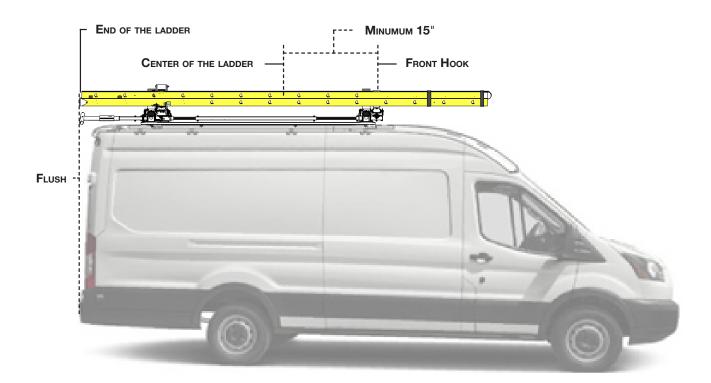
# **PHASE 2** – LADDER INSTALLATION 2.1 EXTENDED LADDER INSTALLATION

**STEP** • Place the Max Rack in the down position.

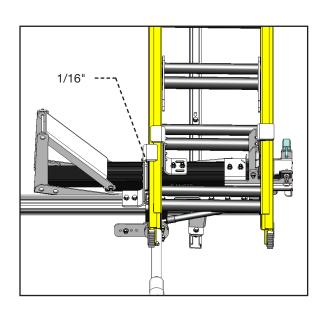
• Load the ladder onto the Max Rack.

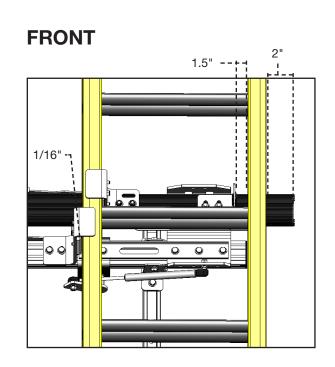
**NOTE:** These conditions must be respected:

- 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.



REAR



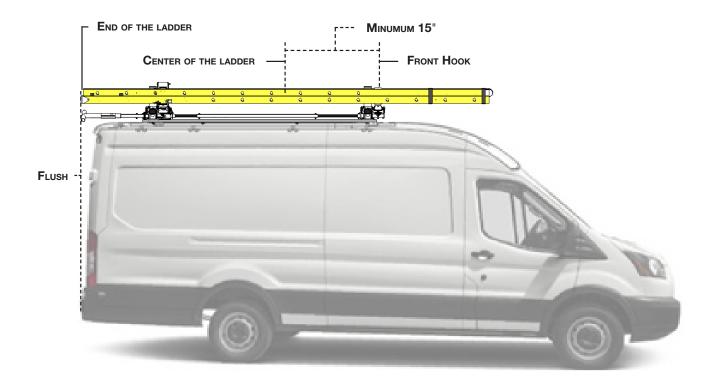


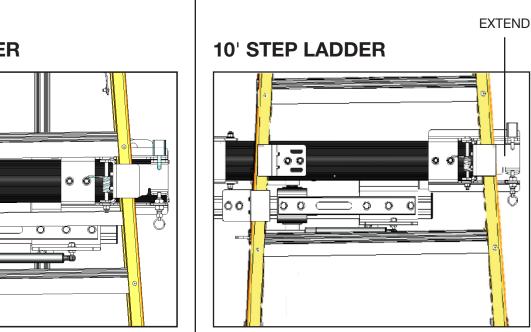


# **PHASE 2** – LADDER INSTALLATION 2.2 STEP LADDER INSTALLATION

#### 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

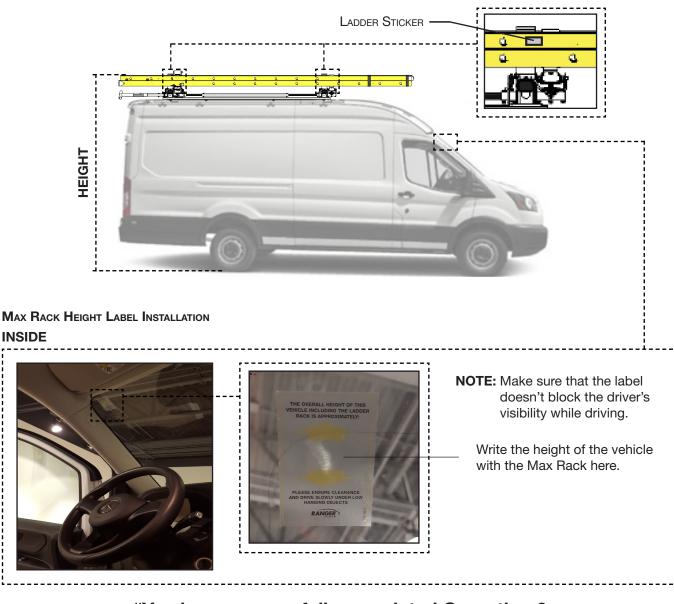
O



300

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.



"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."

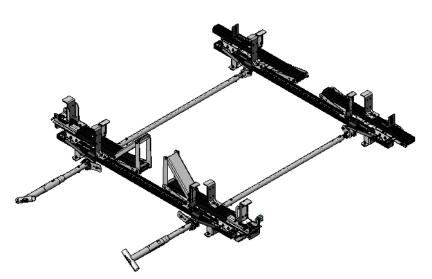
For any feedback or suggestions you might have, please contact: <u>CS@rangerdesign.com</u>



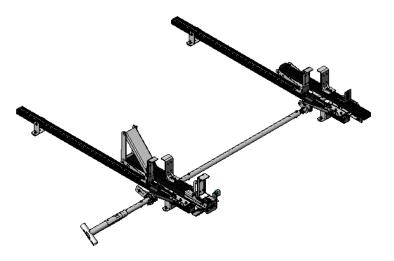


# **INSTALLATION GUIDE**

## MAX RACK DOUBLE SIDE



**RACK SINGLE SIDE** 



# 18-U1815 Max Rack

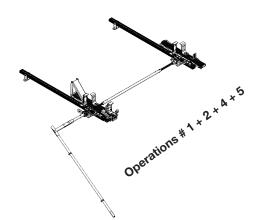
Driver Side 39" Drop Height From The Roof

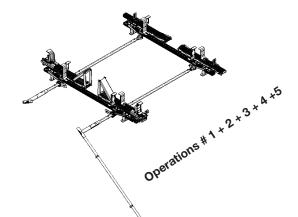


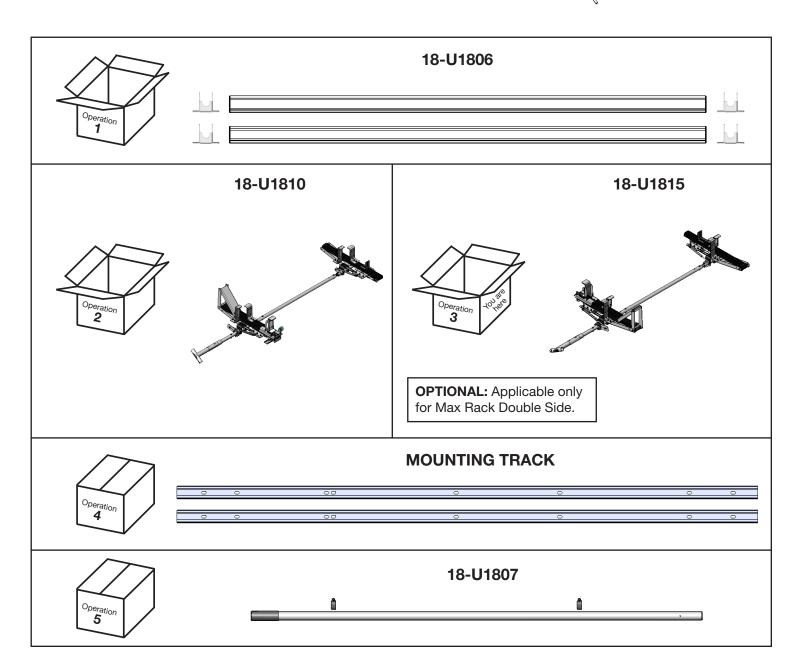
# **ORDER OF OPERATION**

### MAX RACK SINGLE SIDE

MAX RACK DOUBLE SIDE







# **QUICK START GUIDE**

### Phase 1 - Assembly

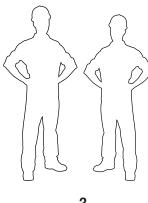
□ 1.1 Setup	4 - 5
□ 1.2 Front Crossbar Assembly	6 - 11
□ 1.3 Rear Crossbar Assembly	
□ 1.4 For Assembly With Overhead Lift	
1.5 Assembly Validation	22

### Phase 2 - Ladder Installation

□ 2.1 Extension Ladder Installation	23
□ 2.2 Step Ladder Installation	24

## **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.



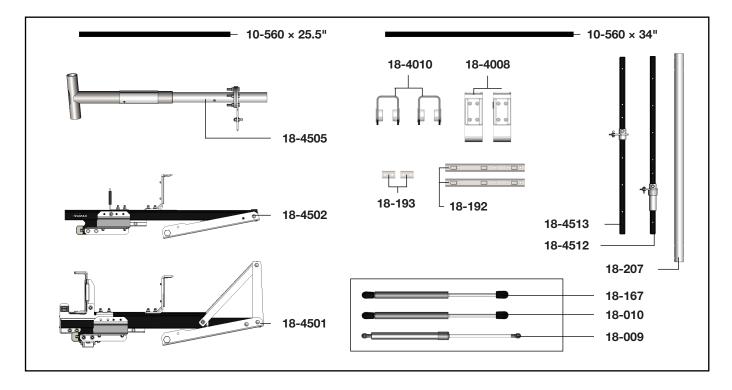
2 PERSONS

- 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

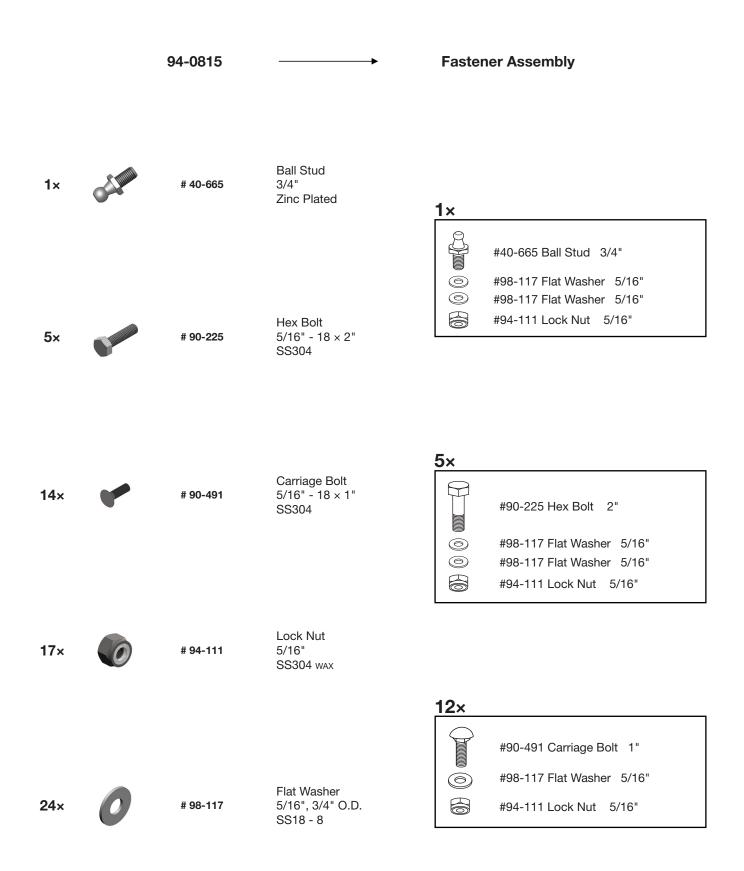




**1.1.2** Verify all parts are present.

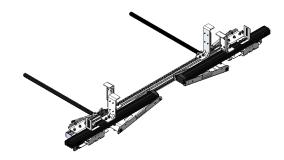
Item No.	Description	Qty.
18-009	Damper	1
18-010	Gas Spring	1
18-207	Center Tube	1
18-167	Gas Spring Combo	1
18-192	Insert Plate, 5 Bolts	2
18-193	Insert Plate, 2 Bolts	2
18-4513	DS - Rear Linkage	1
18-4512	DS - Front Linkage	1
18-4501	Driver Side Rear Mechanism	1
18-4502	Driver Side Front Mechanism	1
18-4505	Driver Side Damper kit	1
18-4008	Long Hook	2
18-4010	Shaft Support Bracket	2
10-560×25.5"	Track Plug (25.5")	1
10-560×34"	Track Plug (34")	1
94-0815	Customer Assembly Fastener Kit	1



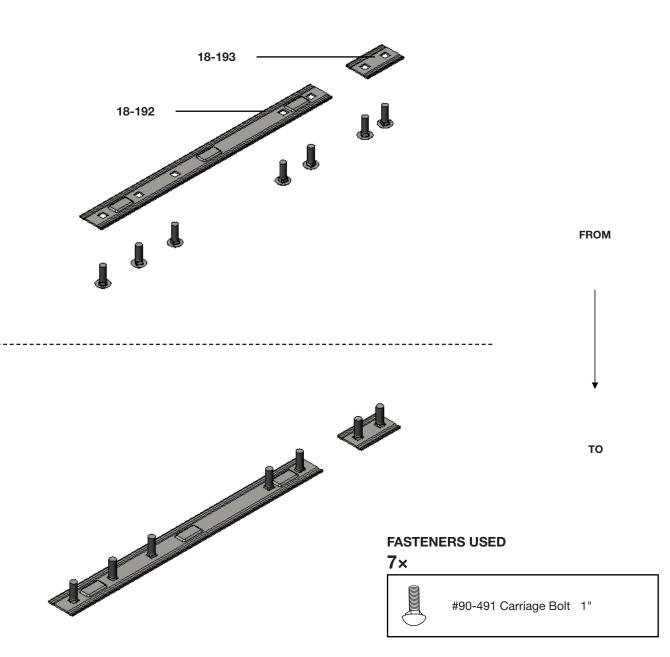




# **PHASE 1** – ASSEMBLY 1.2 FRONT CROSSBAR ASSEMBLY

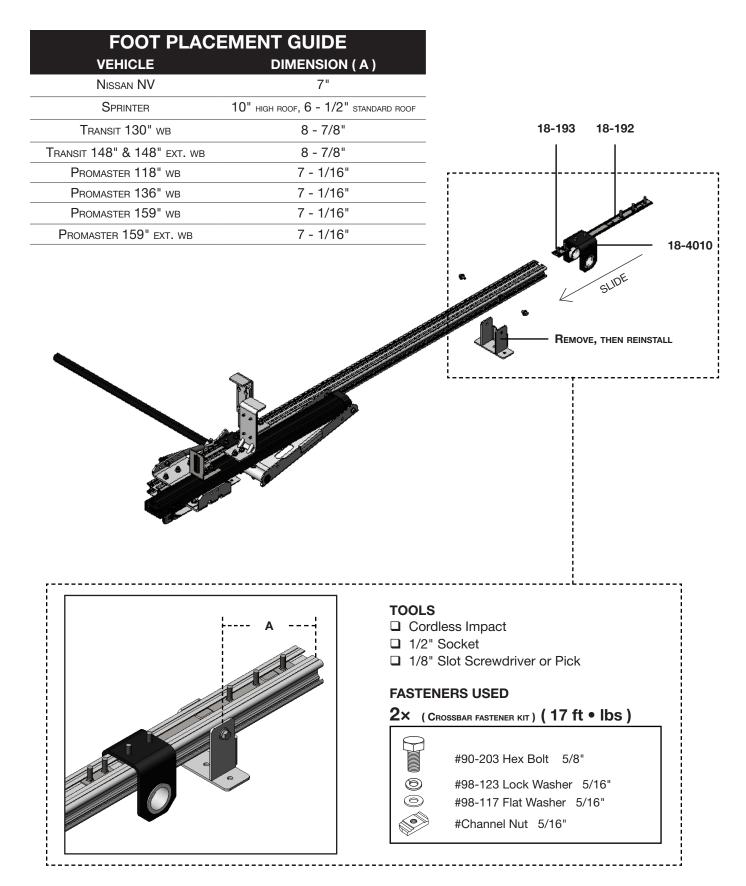


**1.2.1** Attach carriage bolts to the insert plate.

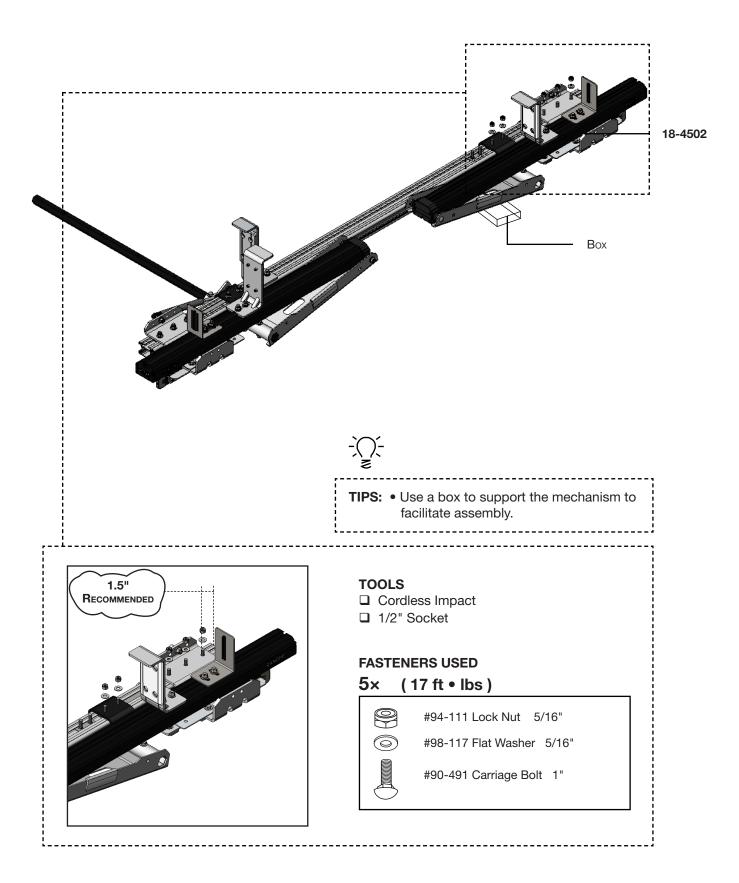


NOTE: Skip this step if you slide 2 shaft support bracket for double sided rack already.

- **1.2.2** Remove the driver side feet, then slide the insert plate to the crossbar w/ shaft support bracket.
  - Reinstall the feet after slinding the plate w/ shaft support bracket.



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





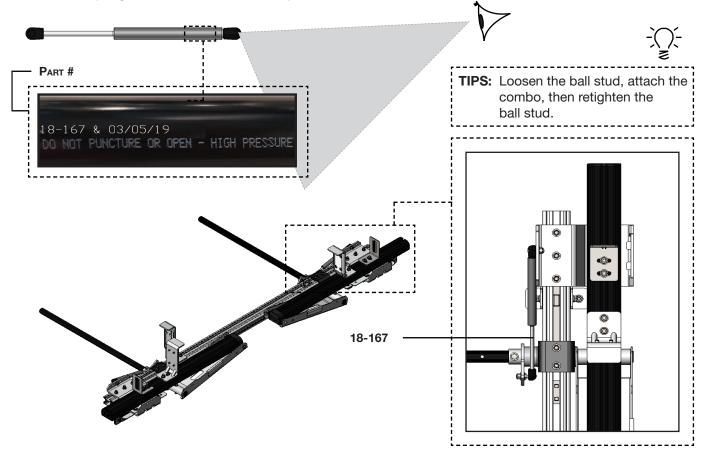
- **1.2.4** Slide the pivot bar with front linkage and spacer through the shaft support bracket and arm, then attach the pivot bar to the arm.
  - SLIDE HOLE SHAFT SUPPORT BRACKET 18-4512 18-004 HOLE FROM **A**RM то **FASTENERS USED** TOOLS □ 1/2" Wrench 2× 1× (17 ft • lbs) #90-225 Hex Bolt 2" #98-117 Flat Washer 5/16" 0 e 0 #98-117 Flat Washer 5/16" Ho #94-111 Lock Nut 5/16"

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



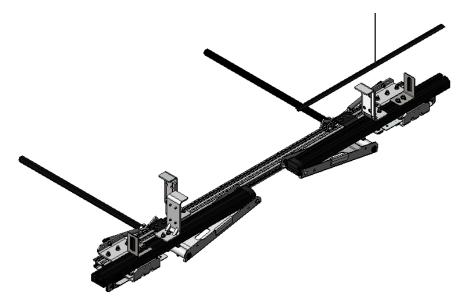
**1.2.5** Attach the gas spring combo to the ball studs.

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



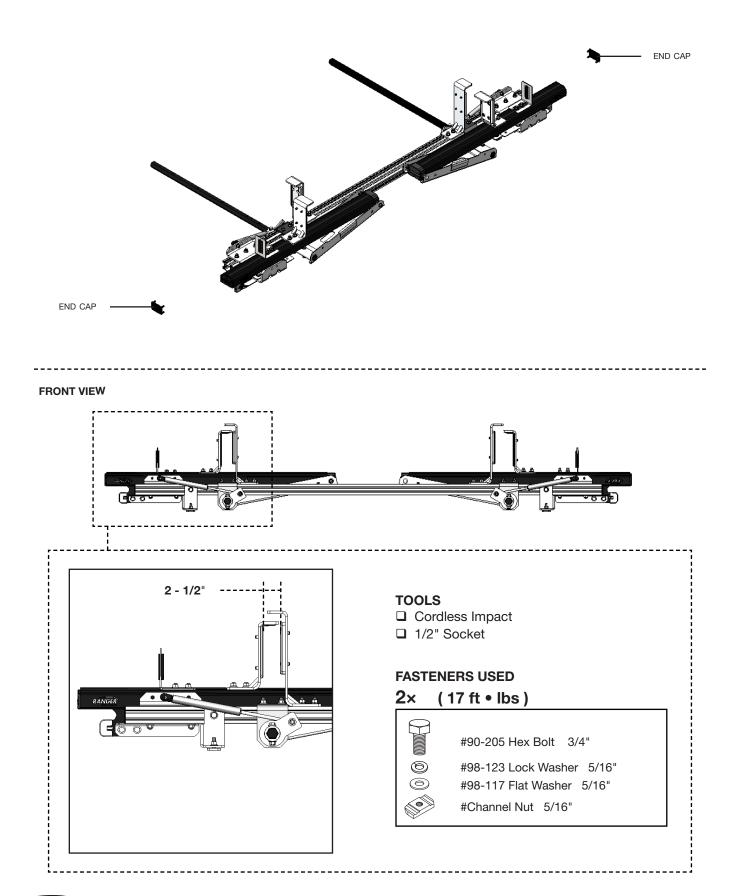
- **1.2.6** Attach one small hook and front ladder retainer to the front mechanism.
  - Cut the track plug to length, then install.

CUT THE TRACK PLUG TO LENGTH, THEN INSTALL

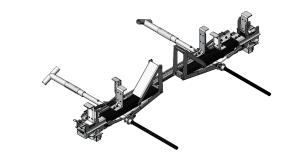




- **1.2.7** Attach the long hook to the crossbar, facing to the small hook.
- **NOTE:** If you are using a step ladder, the hook position will need to be adjusted. (Follow the mounting track installation guide).



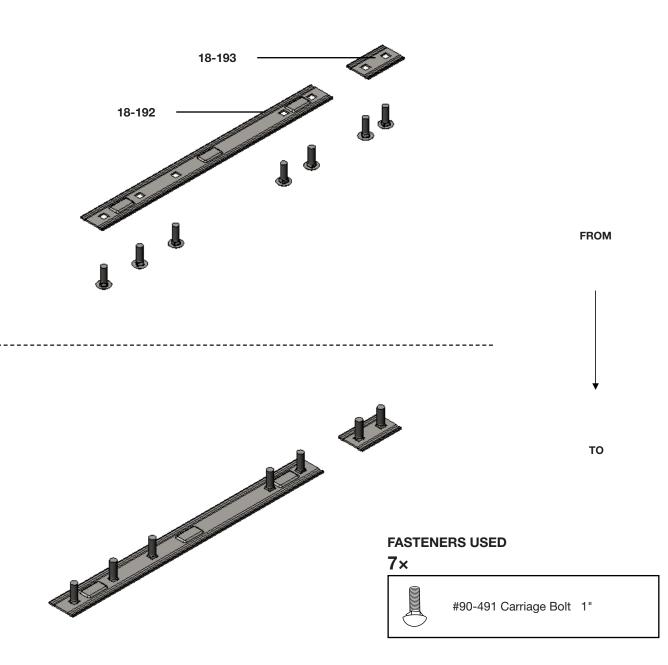




**1.3.1** Attach carriage bolts to the insert plate.

**1.3 REAR CROSSBAR ASSEMBLY** 

PHASE 1 – ASSEMBLY



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

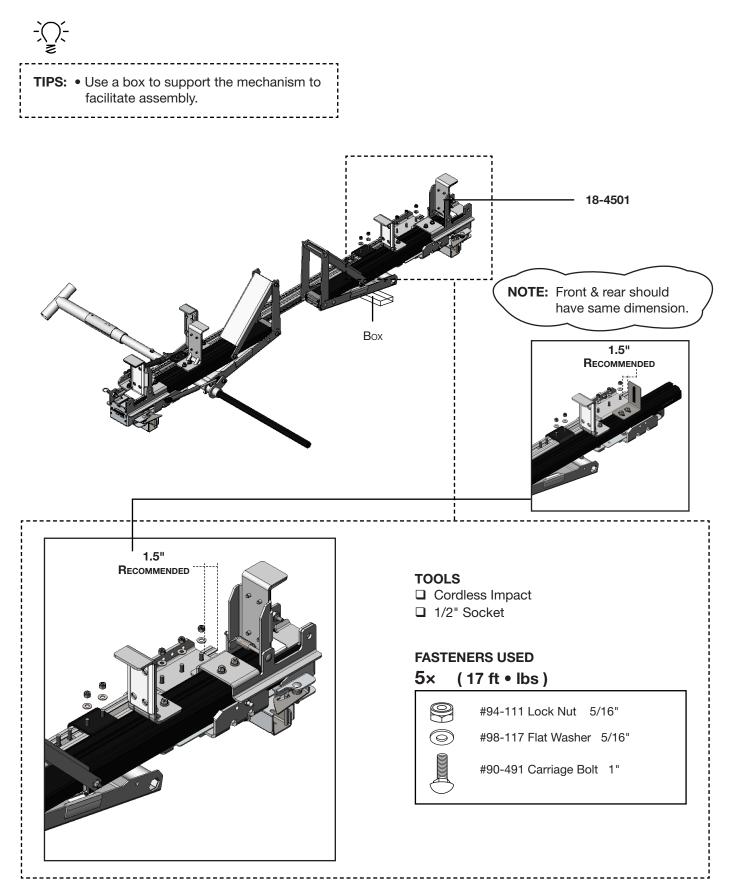
- **1.3.2** Remove the driver side feet, then slide the insert plate to the crossbar w/ shaft support bracket.
  - Reinstall the feet after slinding the plate w/ shaft support bracket.

VEHICLE Nissan NV	DIMENSION ( A ) 7"		
Sprinter	10" HIGH ROOF, 6 - 1/2" STANDARD ROOF		
Transit 130" wb	8 - 7/8"		
RANSIT 148" & 148" EXT. WB	8 - 7/8"		
PROMASTER 118" WB	7 - 1/16"		
PROMASTER 136" WB	7 - 1/16"		~
PROMASTER 159" WB	7 - 1/16"		
PROMASTER 159" EXT. WB	7 - 1/16"		
R			- <u>r</u> -
		rdless Impact " Socket " Slot Screwdriver or Pick	
	A A C C	rdless Impact " Socket " Slot Screwdriver or Pick <b>ENERS USED</b>	
	A A C C	rdless Impact " Socket " Slot Screwdriver or Pick	Ibs
	A A C C	rdless Impact " Socket " Slot Screwdriver or Pick <b>ENERS USED</b>	Ibe
	A	rdless Impact " Socket " Slot Screwdriver or Pick ENERS USED MOUNTING TRACK FASTENER KIT ) ( 17 ft • #90-203 Hex Bolt 5/8" #98-123 Lock Washer 5/16"	Ibs
	A A C C	rdless Impact " Socket " Slot Screwdriver or Pick ENERS USED MOUNTING TRACK FASTENER KIT ) <b>( 17 ft •</b> #90-203 Hex Bolt 5/8"	Ibs

ì

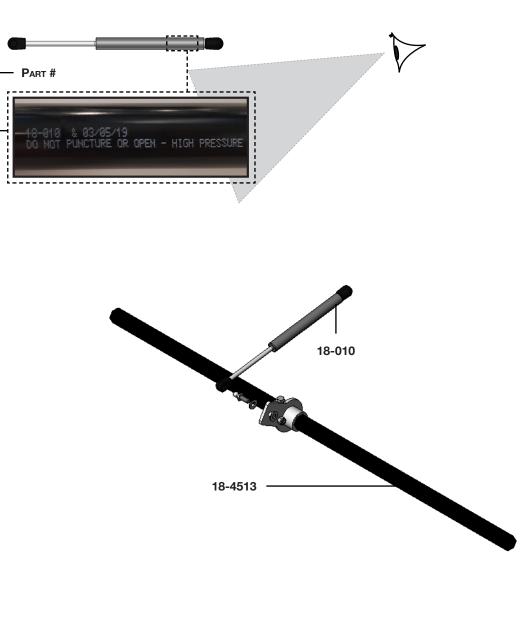
**1.3.3** • Slide 3 channel nuts into the top channel of the crossbar.

• Attach the driver side rear mechanism to the crossbar with washer plate using the 3 channel nuts.



**1.3.4** Attach the gas spring to the rear linkage.

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



#### TOOLS

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

## FASTENERS USED

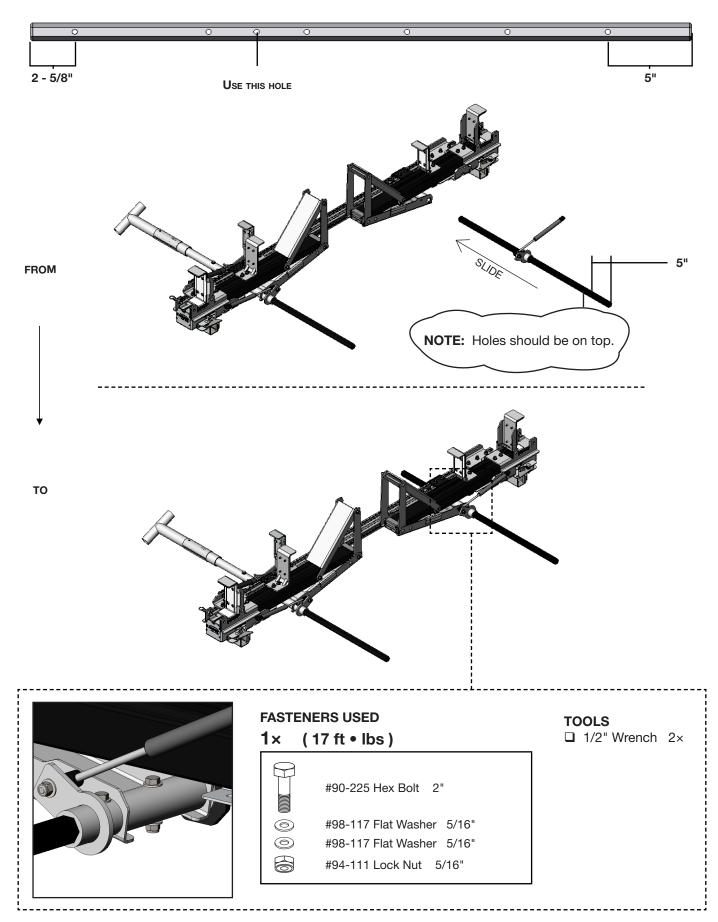
Г

1x (17 ft • lbs)

	#40-665 Ball Stud 3/4"
0	#98-117 Flat Washer 5/16"
0	#98-117 Flat Washer 5/16"
KO	#94-111 Lock Nut 5/16"

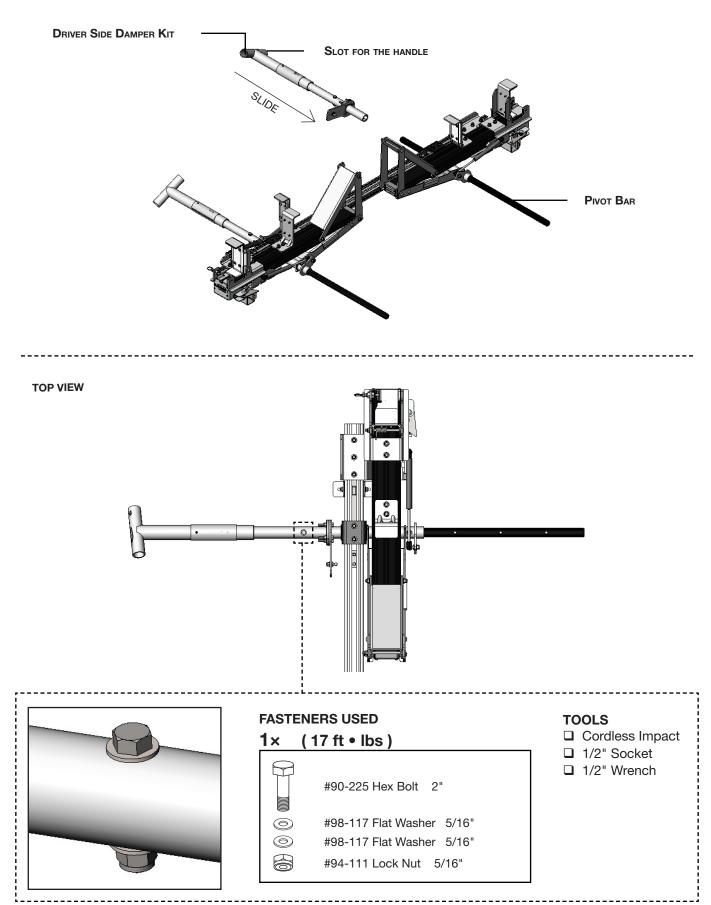


**1.3.5** Slide the pivot bar with rear linkage through the arm and shaft support bracket, then attach the pivot bar to the arm.

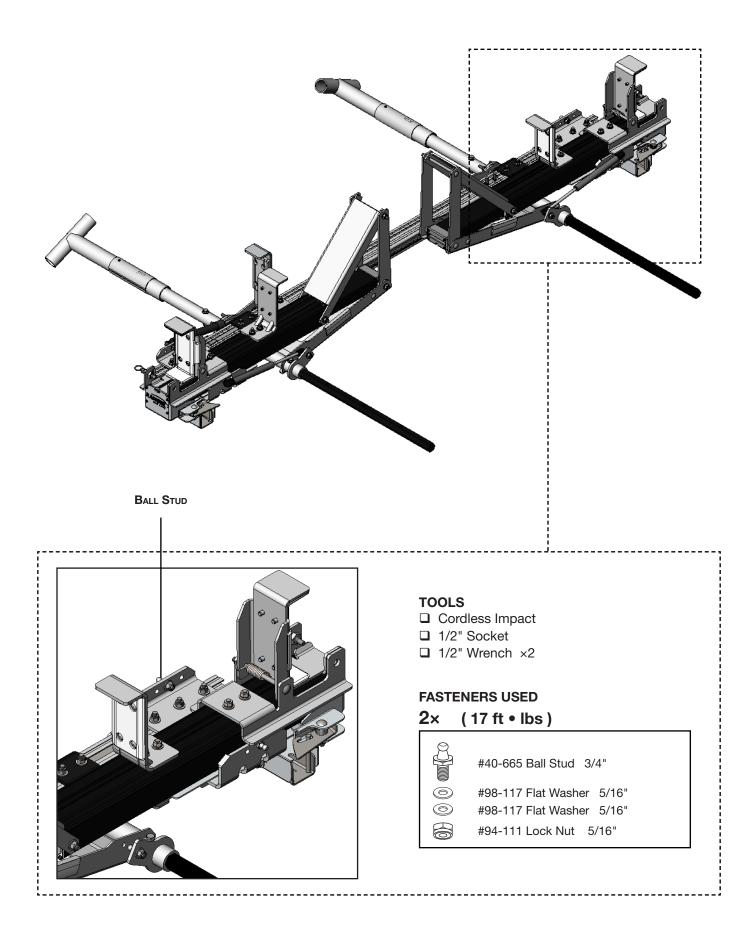




**1.3.6** Slide the driver side damper kit to the pivot bar, then attach the driver side damper kit to the pivot bar.



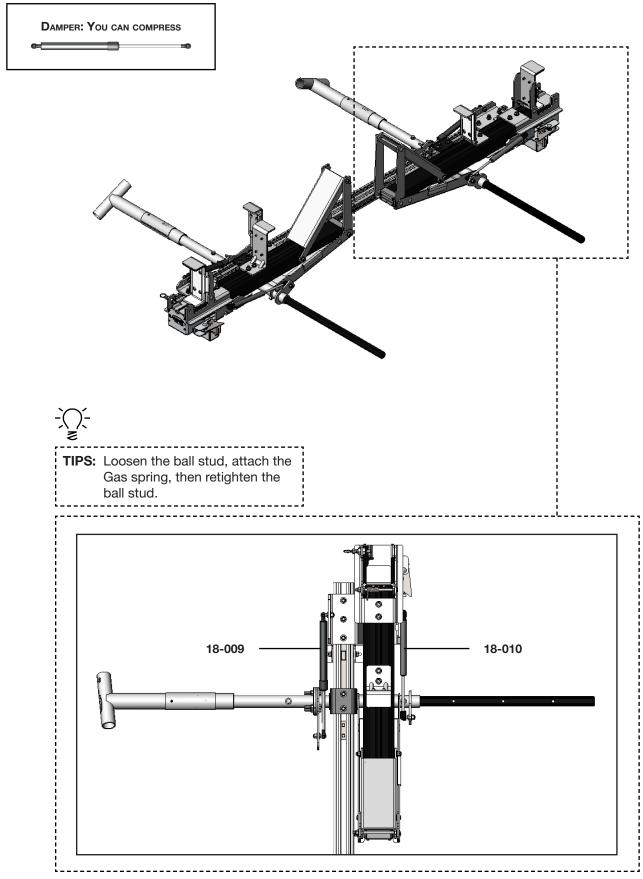
**1.3.7** Attach ball stud to the driver side damper kit and rear mechanism frame.



RANGER

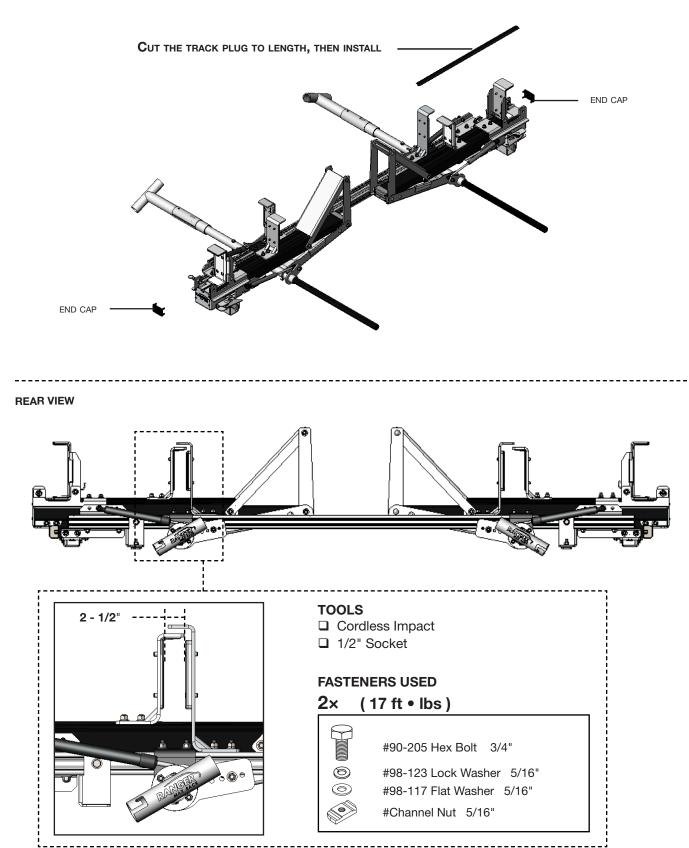
**1.3.8** Attach the damper and gas spring to the ball stud.

#### NOTE:



RANGER

- **1.3.9** Attach the long hook to the crossbar, facing to the small hook.
  - Cut the track plug to length, then install.
- **NOTE:** If you are using a step ladder, the hook position will need to be adjusted. (Follow the mounting track installation guide).

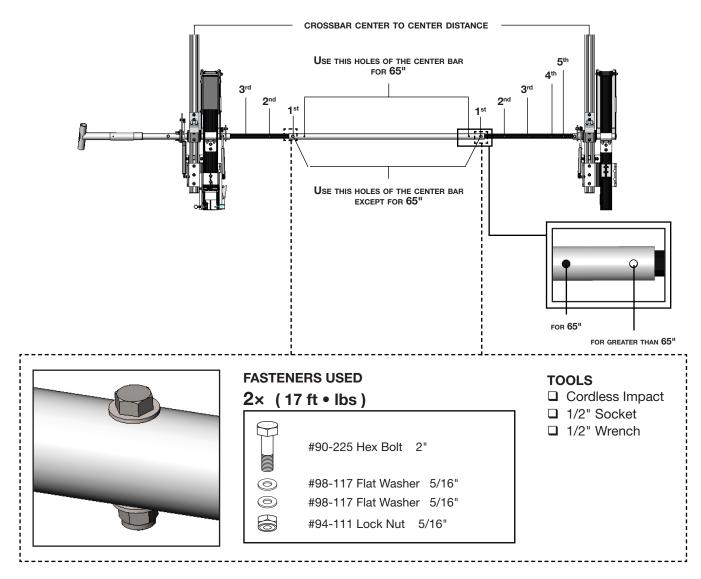




## **PHASE 1** – ASSEMBLY 1.4 FOR ASSEMBLY WITH OVERHEAD LIFT

**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.



#### RECOMMENDED SET-UP

VEHICLE	CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
NISSAN NV	65" ( $3^{RD}$ & $4^{TH}$ Holes )	Up to Extension 24' & Step 8' to 10' only
Ford Transit	65" ( $3^{RD}$ & $4^{TH}$ Holes)	Up to Extension 24' & Step 8' to 10' only
Mercedes-Benz Sprinter	65" ( 3 <sup>RD</sup> & 3 <sup>RD</sup> HOLES )	Up to Extension 24' & Step 8' to 10' only
RAM PROMASTER	65" ( 3 <sup>RD</sup> & 3 <sup>RD</sup> HOLES )	Up to Extension 24' & Step 8' to 10' only

#### FOR LONGER EXTENSION LADDER SET-UP

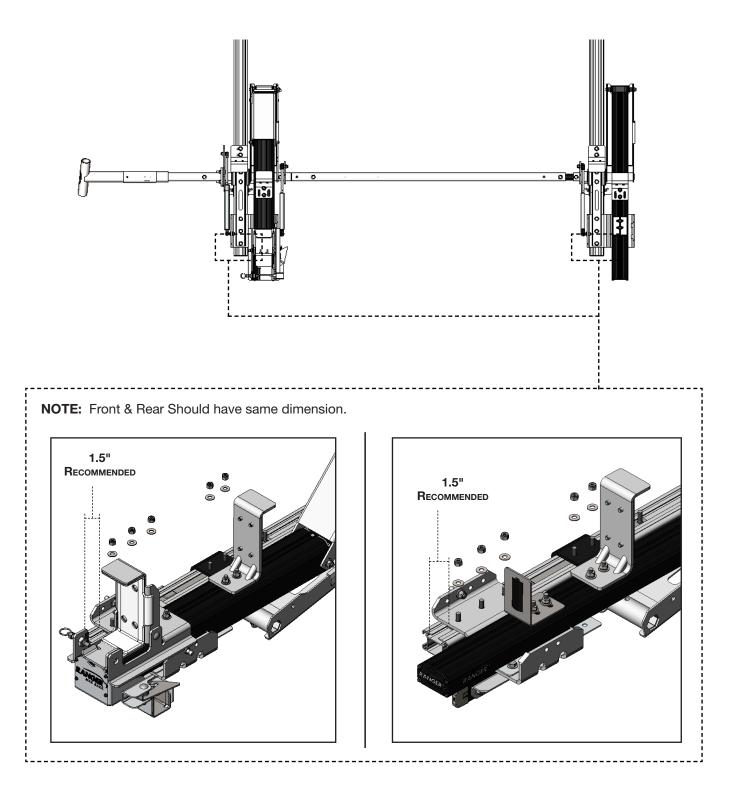
WORKS ONLY ON: FORD TRANSIT ( 148" & 148" EX. WB ), RAM PROMASTER ( 136", 159" & 159" EX. WB ) & MERCEDES-BENS SPRINTER.

CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
89" ( $2^{ND}$ & $2^{ND}$ Holes)	UP TO EXTENSION 32'



# **PHASE 1** – ASSEMBLY 1.5 ASSEMBLY VALIDATION

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

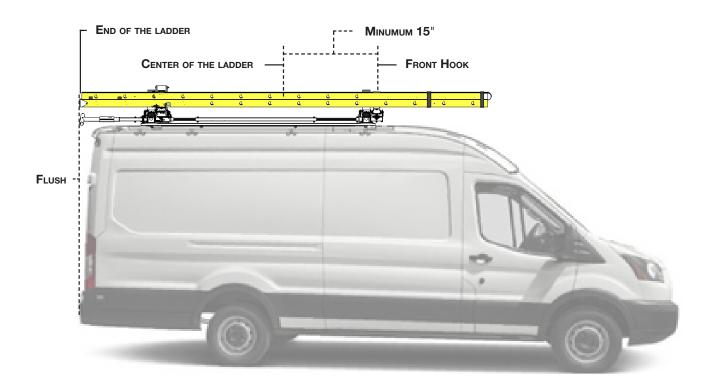




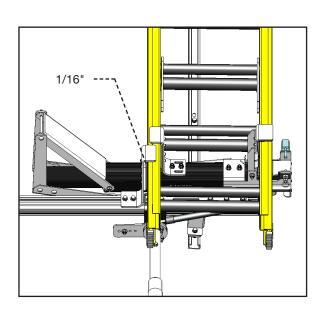
## PHASE 2 – LADDER INSTALLATION

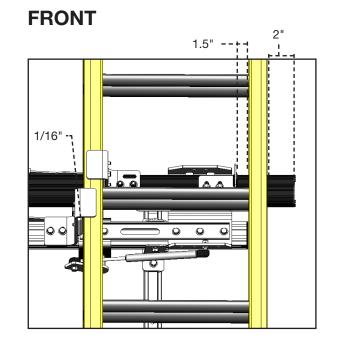
2.1 EXTENDED LADDER INSTALLATION

- **STEP** 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.



REAR



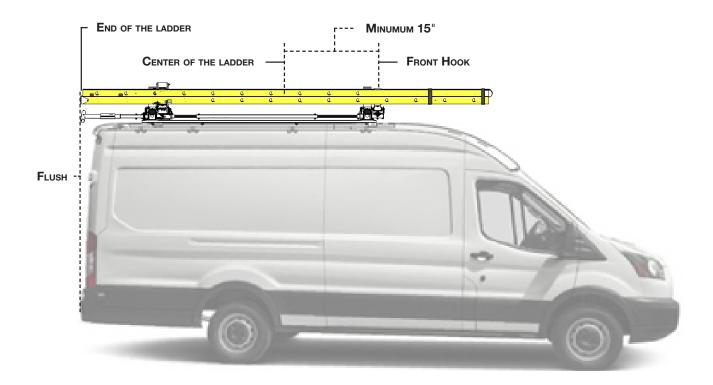


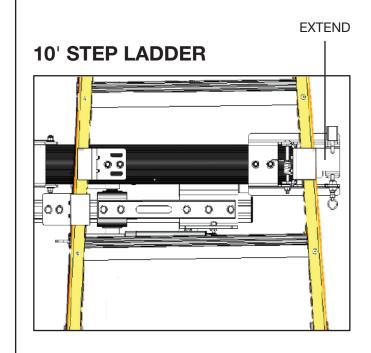


# **PHASE 2** – LADDER INSTALLATION 2.2 STEP LADDER INSTALLATION

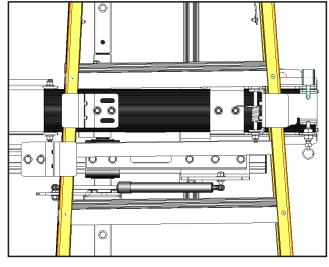
#### **NOTE:** These conditions must be respected:

- 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.





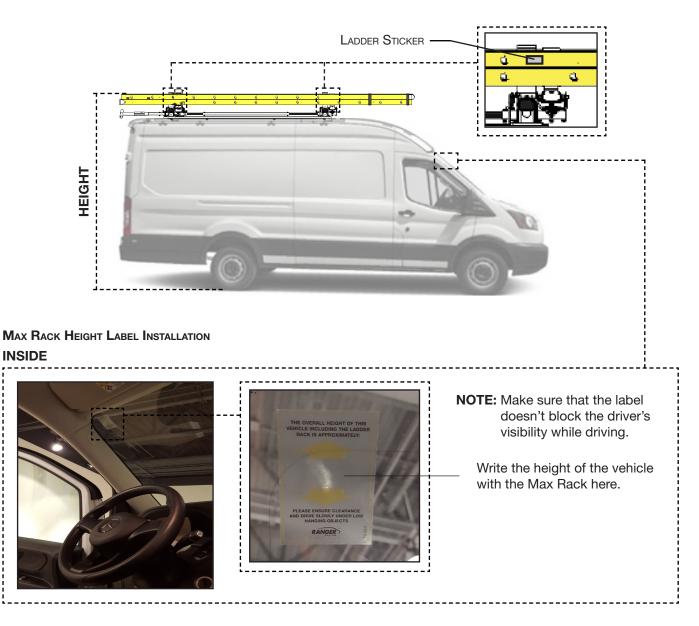
### 8' STEP LADDER





NOTE: • 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.



"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**

WITH OEM TRACKS



WITH RANGER DESIGN TRACKS

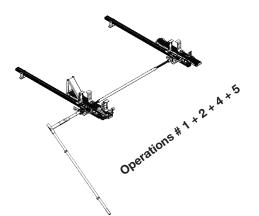


# **18-U0018 Mounting Tracks** Mercedes Sprinter ( Standard & High Roof )

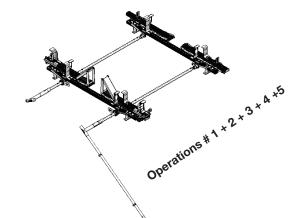


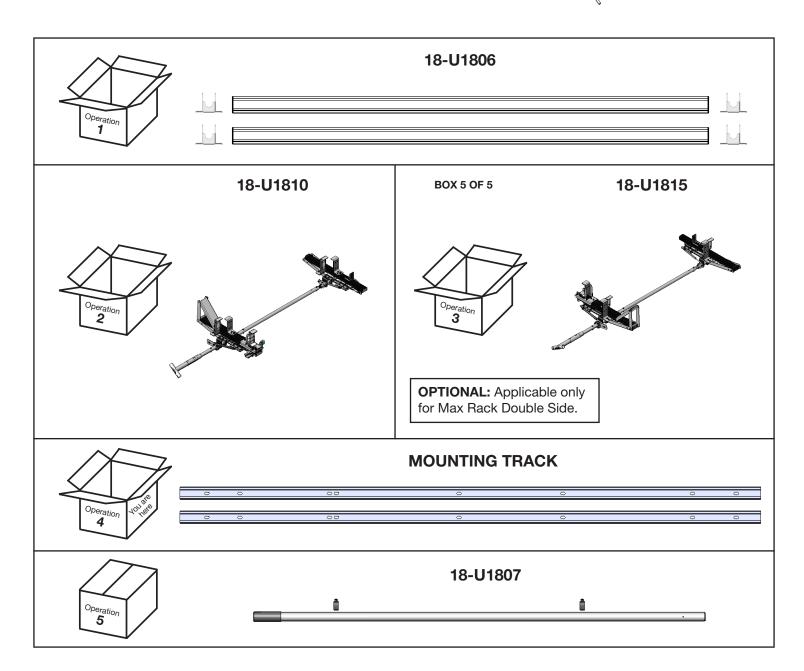
## **ORDER OF OPERATION**

### MAX RACK SINGLE SIDE



### MAX RACK DOUBLE SIDE





## **QUICK START GUIDE**

### Phase 1 - Assembly

□ 1.1 Setup	то Б
<b>a</b> 1.1 Getup	• TO 5

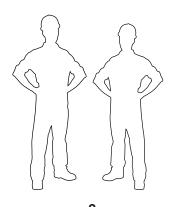
#### Phase 2 - Installation

2.1 Mounting Tracks installation	
□ 2.2 Max Rack installation	

#### Phase 3 - Adjustment

3.1 Adjustment for Max Rack	44	10	,
		 12	4

## REQUIRED ITEMS FOR COMPLETE MAX RACK & LADDER RACK



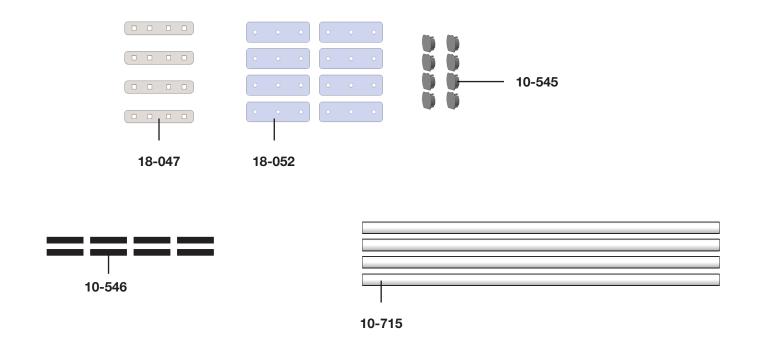
2 PERSONS

- Cordless Impact
- Ratchet
- Tape Measure
- Marker
- Ladder
- 9/16" Wrench
- 1/2" Wrench
- 7/16" Socket
- □ 1/2" Socket
- □ Sawhorse (Optional)
- 🛛 Box
- Cutter



## **PHASE 1 –** ASSEMBLY

**1.1.1** Unpack components; compare with the bill of materials.



**1.1.2** Verify all parts are present.

#### WITH OEM TRACKS

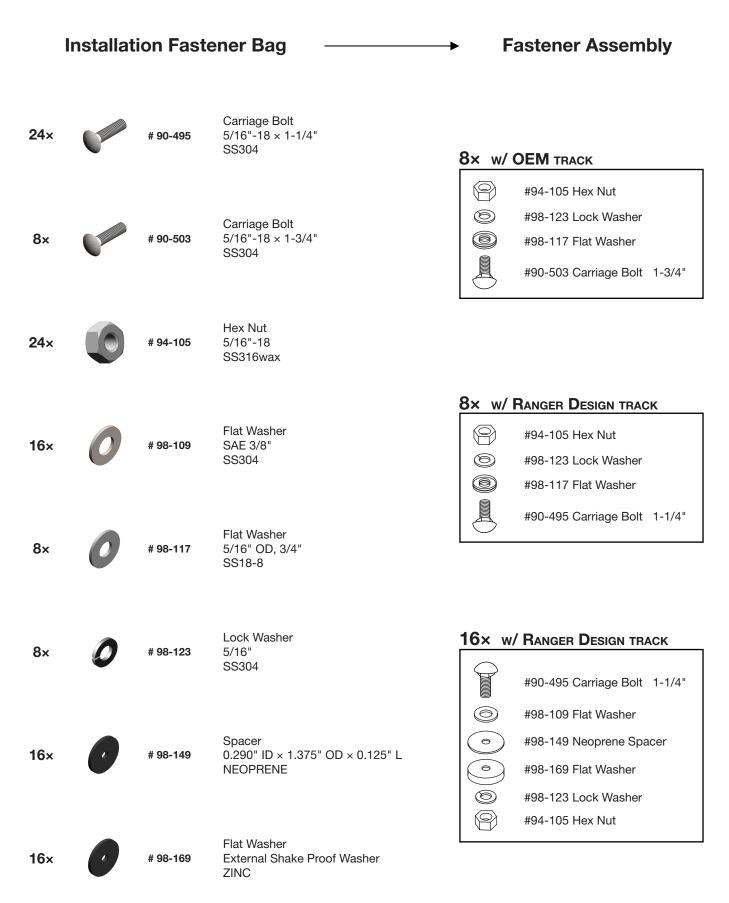
Item No.	Description	Qty.
18-047	Sprinter Support Plate	4
18-052	Shim - Foot	8
96-0018	Installation Fastener Bag	1

### WITH RANGER DESIGN TRACKS

Item No.	Description	Qty.
10-545	Plastic Plug	8
10-546×6	Track Plug	8
10-715	Mounting Track 50"	4
96-0018	Installation Fastener Bag	1



1.1.3 Identify the Assembly and Installation fastener bags.

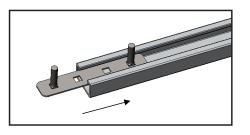


## PHASE 2 – INSTALLATION

2.1 MOUNTING TRACKS INSTALLATION

**2.1.1** Install the hardware onto the mounting tracks.

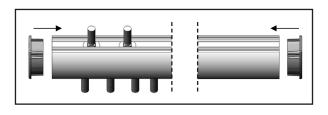
## WITH OEM TRACKS



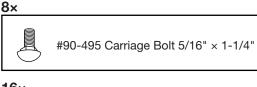
#### FASTENERS USED



#### WITH RANGER DESIGN TRACKS



#### **FASTENERS USED**

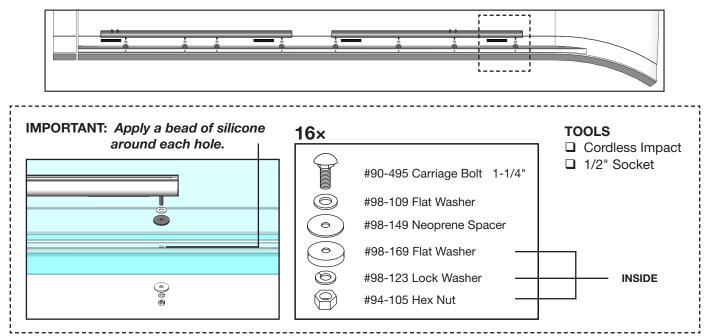


#### <u>16×</u>

#90-495 Carriage Bolt 5/16" × 1-1/4"

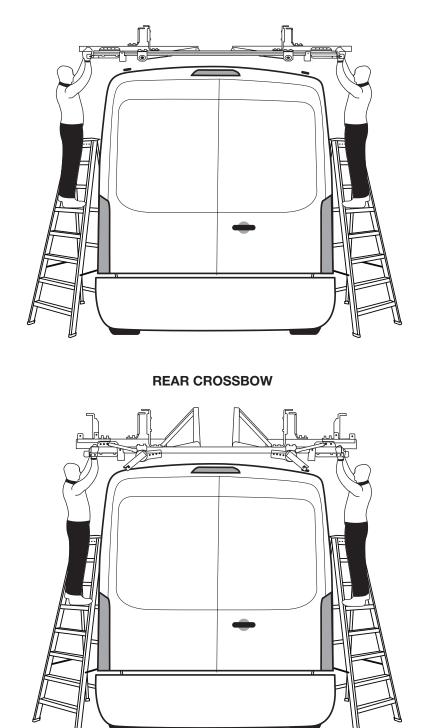
- **2.1.2** Align the bottom bolts to the roof holes.
  - Attach the plug extrusions on both ends of the mounting tracks.
  - Install the mounting tracks onto the roof.
  - Apply a bead of silicone around each hole, then fasten the tracks to the roof.

#### WITH RANGER DESIGN TRACKS



# **PHASE 2** – INSTALLATION 2.2 MAX RACK INSTALLATION

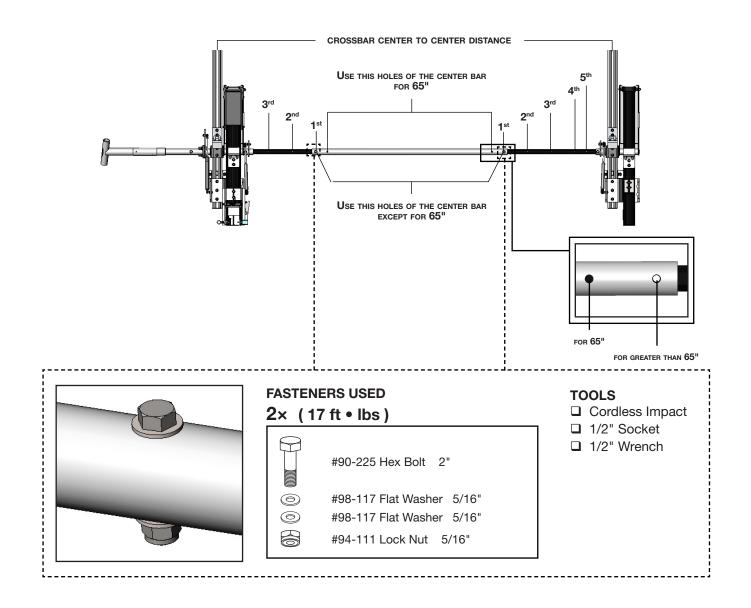
**2.2.1** Position the Max Rack ( **minimum two persons** ) on the vehicle so that the feet are on the tracks. **NOTE:** If you do not have an overhead lift, lift the front crossbar onto the roof first then the rear crossbar.



FRONT CROSSBOW



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



#### **RECOMMENDED SET-UP**

VEHICLE	CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
Mercedes-Benz Sprinter	65" ( 3 <sup>RD</sup> & 3 <sup>RD</sup> HOLES )	Up to Extension 24' & Step 8' to 10' only

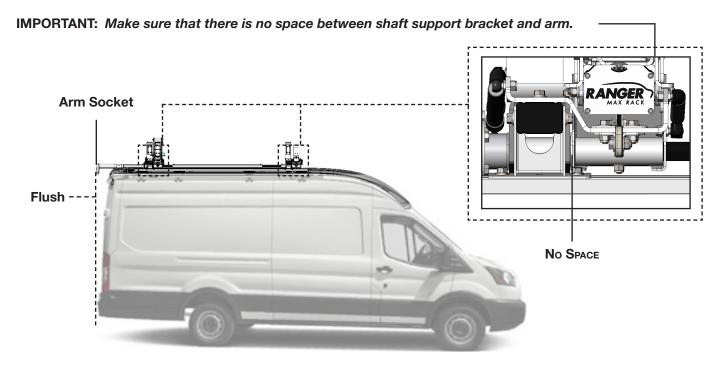
#### FOR LONGER EXTENSION LADDER SET-UP

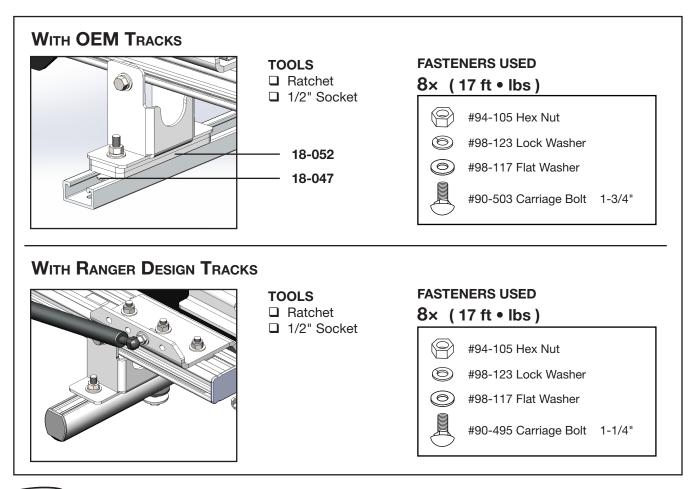
WORKS ONLY ON: FORD TRANIT (148" & 148" EX. WB ), RAM PROMASTER (136", 159" & 159" EX. WB ) & MERCEDES-BENS SPRINTER.

CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
89" ( $2^{ND}$ & $2^{ND}$ Holes)	UP TO EXTENSION 32'



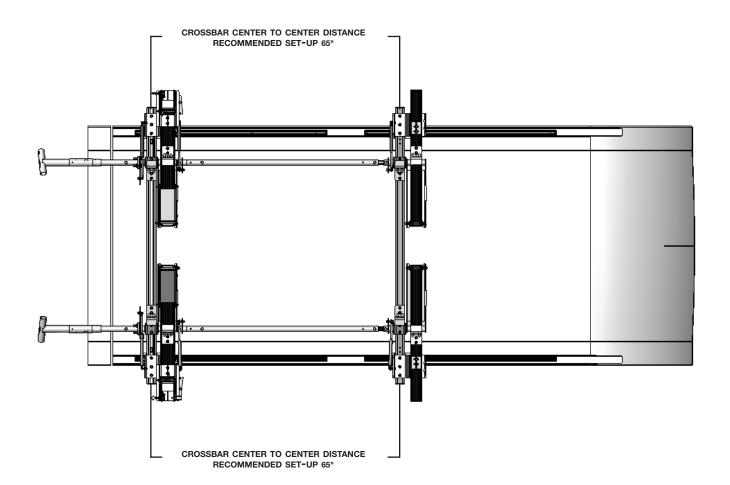
- **2.2.3** Align the arm socket to the rear bumper of the vehicle.
  - Attach all the feet w/ shim to the mounting tracks.
- **NOTE:** These conditions must be respected:
  - The arm socket and the ladder cannot extend beyond the rear bumper of the vehicle.
  - The center of the ladder must be behind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







**2.2.4** Before tightening the feet to the mounting track make sure that the 2 crossbar is parallel.



#### **RECOMMENDED SET-UP**

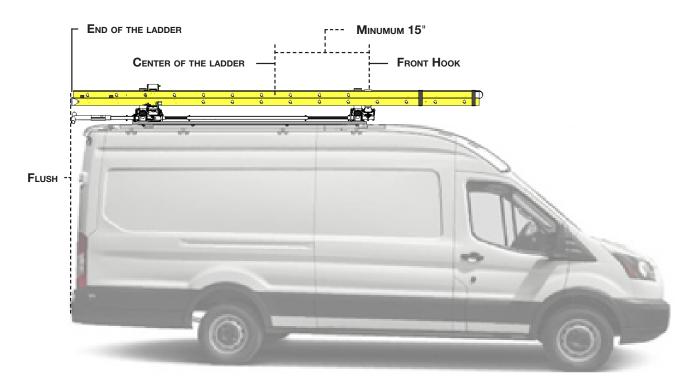
VEHICLE	CROSSBAR CENTER TO CENTER DISTANCE	LADDER SIZE
Mercedes-Benz Sprinter	65" ( 3 <sup>RD</sup> & 3 <sup>RD</sup> HOLES )	Up to Extension 24' & Step 8' to 10' only



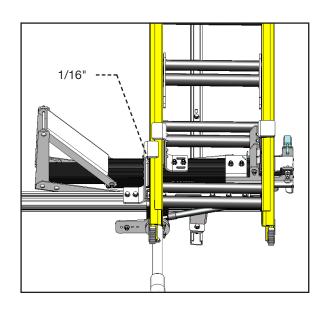
## PHASE 3 – ADJUSTMENT

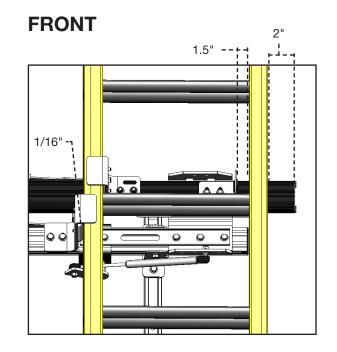
**3.1 ADJUSTMENT FOR MAX RACK** 

- **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.



REAR



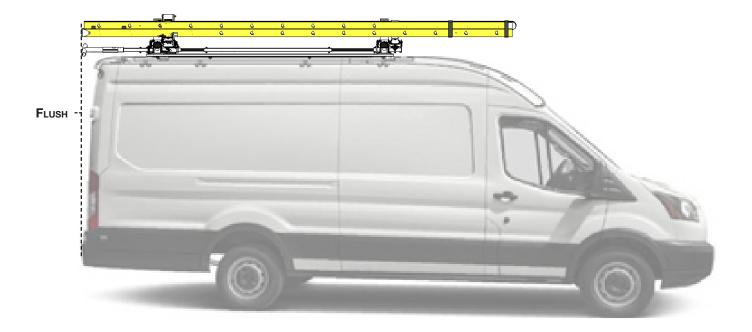


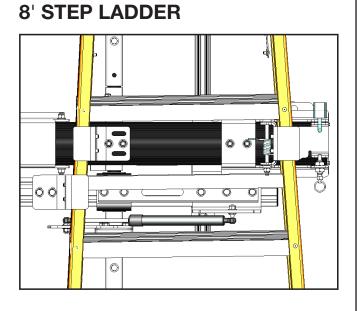


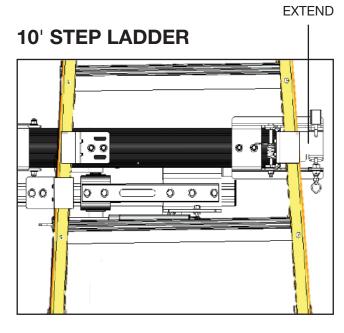
## **STEP LADDER INSTALLATION**

**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.



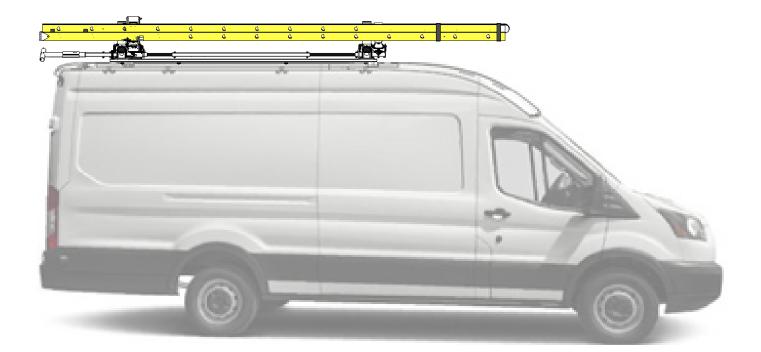






**NOTE:** • Ensure that everything is safely assembled and fastened.

• 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 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>



