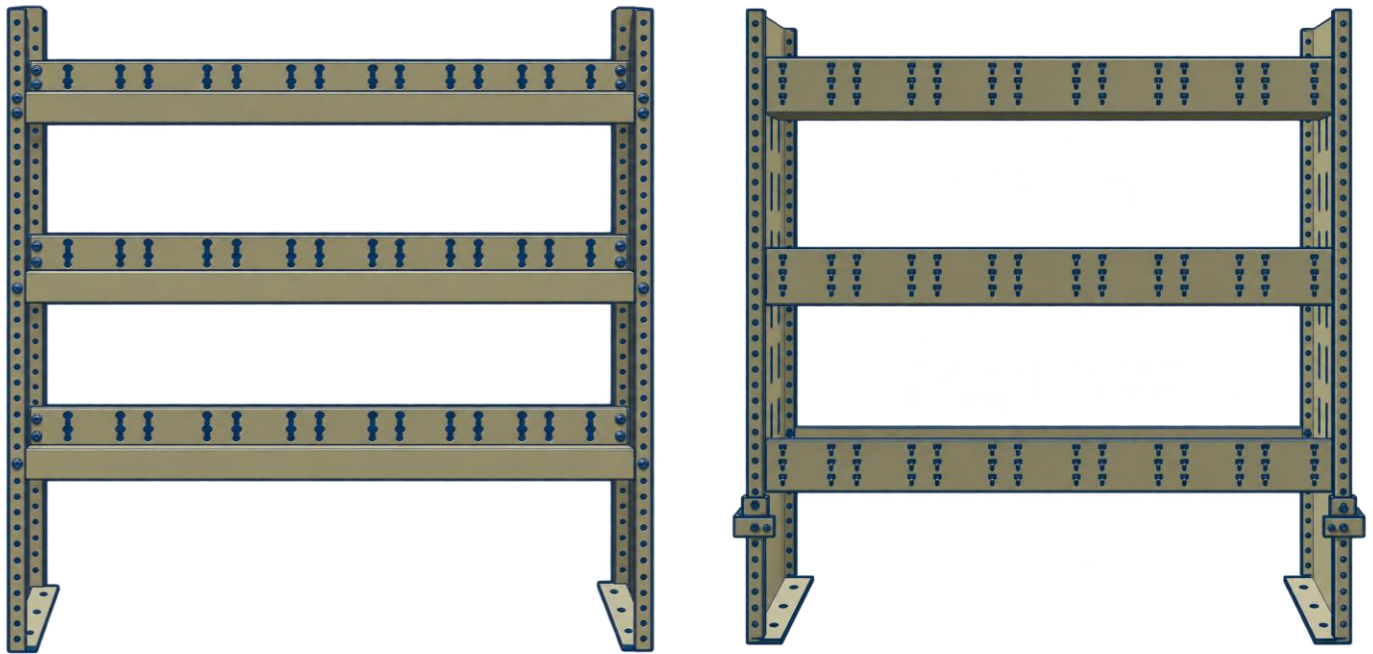


ES SHELVING INSTALLATION INSTRUCTION



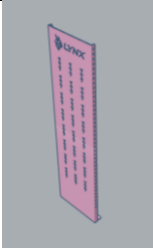
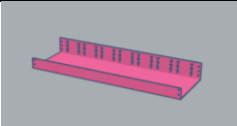
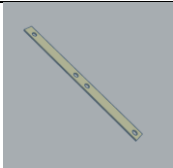
Installation Instructions for ES Shelving
Version: 0.0

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Materials List

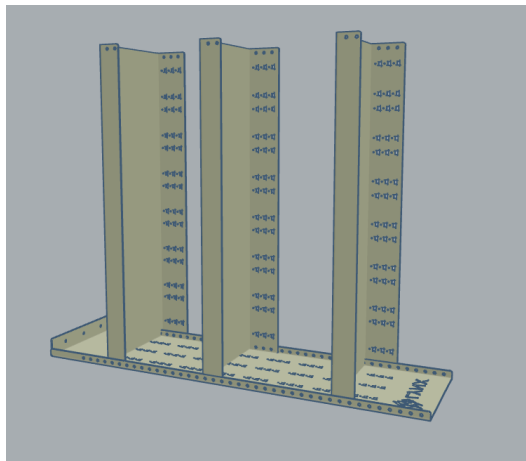
Part Number	Description	Image
50018	5/16-18 Nylon Lock Nuts	
50017	(5/16 - 18) x 5/8" Hex Head Bolt	
.375 SAE WASHER	3/8" SAE Washer "Plated" KBN	
50048	(5/16-18) x 1.5" Hex Head Bolt	
	Self-tap screw	
5/16 STRUT CHNEL NUT W/SPRING	5/16" STRUT CHANNEL NUT WITH SPRING (use on installs that utilize horizontal wall struts)	
5108-11A	Mounting Brackets	
	5/16" Rivet Nut	

	5/16" Plus Nut (For Installation Without Wall Struts)	
	Plus Nut Installation Tool	
5107	ES Shelf Side Panels (x2)	
5109	Es Shelf (x3)	
5146-6	Shelf Stiffeners (x2)	

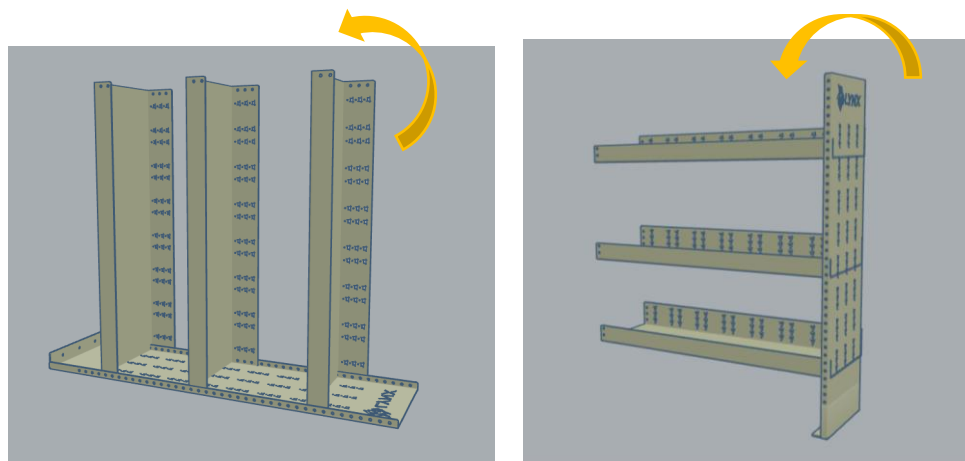
Assembly

1. Attach Shelves to Left Side Panel

- Lay the **left-hand 5107 side panel** flat on its back.
- Position each **5109 shelf** at its required height and secure one end of each shelf to the 5107 side panel using **rivet nuts** and mounting holes along its edge.



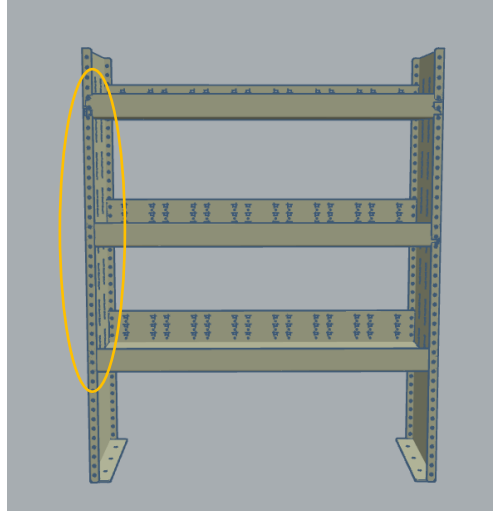
2. Carefully stand the partially assembled shelving unit upright.



3. Attach Right Side Panel

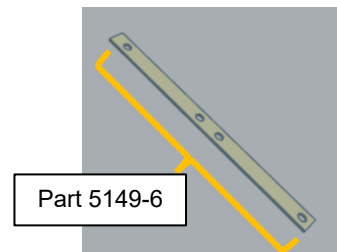
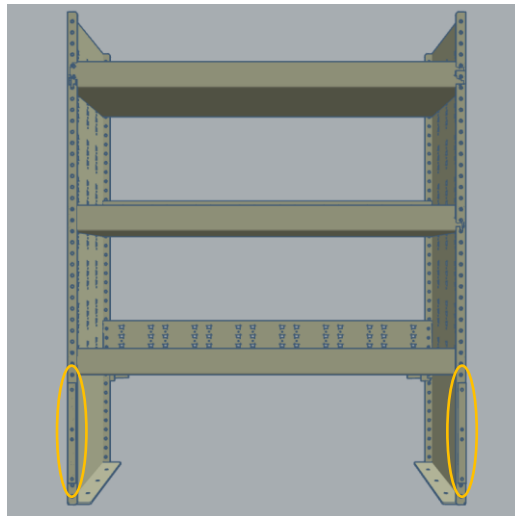
- Position the **right-hand 5107 side panel** against the free ends of the **5109 shelves**.

- ii. Ensure each shelf is installed at the **same height on both side panels**, then secure the shelves using **rivet nuts**.

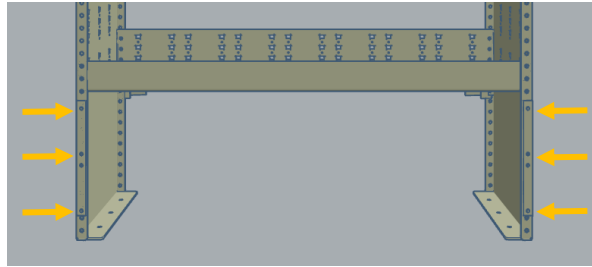


4. Install Shelf Stiffeners

- i. Position one **5149-6 stiffener** along the front edge of the shelves side panels as shown.



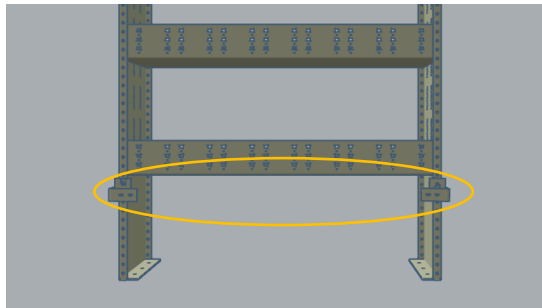
- ii. Align the holes on each stiffener with the corresponding holes in the side panel and secure using **rivet nuts**.



iii. Ensure both stiffeners are properly aligned, then securely tighten all fasteners.

5. Attach Mounting Brackets (If Necessary)

- i. Depending on your **shelf and van configuration**, the shelving unit may include additional mounting brackets to secure the unit to the van's mounting rails.
- ii. Attach the **lower mounting brackets** to the back of the shelf, so they align with the **lower mounting rail** in the van using **rivet nuts**.



- iii. Attach the **upper mounting brackets** to the back of the unit at a height that aligns with the **upper mounting rail** in the van using **rivet nuts**.
- iv. If the shelving unit is **shorter than the upper mounting rail**, extension brackets will be supplied. Attach the extension bracket near the top, on the back of the unit, so the mounting points align with the van's upper mounting rail.

5. Check Assembly

- i. Ensure all shelves are level and properly aligned. Once alignment is confirmed, securely tighten all fasteners.

Installation Instructions

1. Position the Shelf

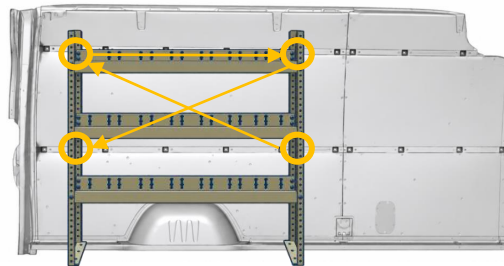
- i. Using **two workers**, carefully lift the assembled shelf into the back of the van. Ensure that rear mounting brackets are facing the wall where the shelf will be installed.
- ii. Slide the shelf to the desired installation position. Ensure the **lower mounting brackets and upper mounting points align with each mounting rail** on the van wall.

2. Mount Shelf to Van Wall

Method 1: Vans With Wall Struts

- i. Ensure wall struts are securely bolted to van wall.

- ii. Insert a 5/16" strut channel nut with spring into the strut channel at each mounting-bracket location.
- iii. Starting at the **bottom-right mounting bracket**, loosely secure the shelf using a **1.5" hex head bolt, SAE washer and strut channel nut with spring**. Do not fully tighten at this stage.
- iv. Repeat the previous step for the remaining mounting points, working in a **cross pattern** (bottom-right → top-left → bottom-left → top-right).
- v. Once all mounting points are installed and the shelf is properly aligned, securely tighten all fasteners.



Method 2: Vans Without Wall Struts

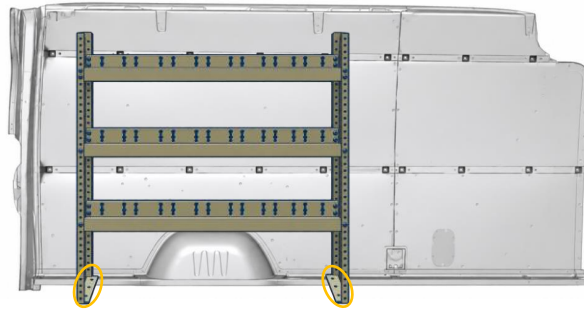
- i. Position the assemble shelf in the desired installation location.
- ii. Use the shelf mounting brackets to mark the required mounting-hole location on the van wall.
- iii. Drill the required holes at the marked locations to accommodate the 5/16" Plus Nuts.
- iv. Install a **5/16" Plus Nut** at each mounting location using the appropriate Plus Nut installation tool.
- v. Reposition the shelf and align the mounting brackets with the installed Plus Nuts.
- vi. Secure the shelf to the Plus Nuts using the appropriate fasteners.
- vii. Once the shelf is properly aligned, securely tighten all fasteners.

3. Secure Shelf to the Floor

IMPORTANT: Always check underneath the van before drilling to avoid drilling through any critical components.

EV WARNING: Avoid drilling into EV floors to prevent battery damage. Use an approved track system or other manufacturer-approved mounting method for safe installation.

- i. Using the designated holes on the bottom of each side of the shelf, install **5/16"** **rivet nuts** into the van floor using a **rivet nut gun**.
- ii. Secure the shelf to the installed rivet nuts using a **(5/16 - 18) x 5/8"** **hex head bolt** and **3/8"** **SAE washer**.



4. Install Shelf Dividers

- i. Install a shelf divider by sliding the hooks on the back of the divider into the holes on the back wall of the shelf.
- ii. Secure dividers use a self-tap screw.
- iii. Repeat steps above for the desired amount of shelf dividers.

