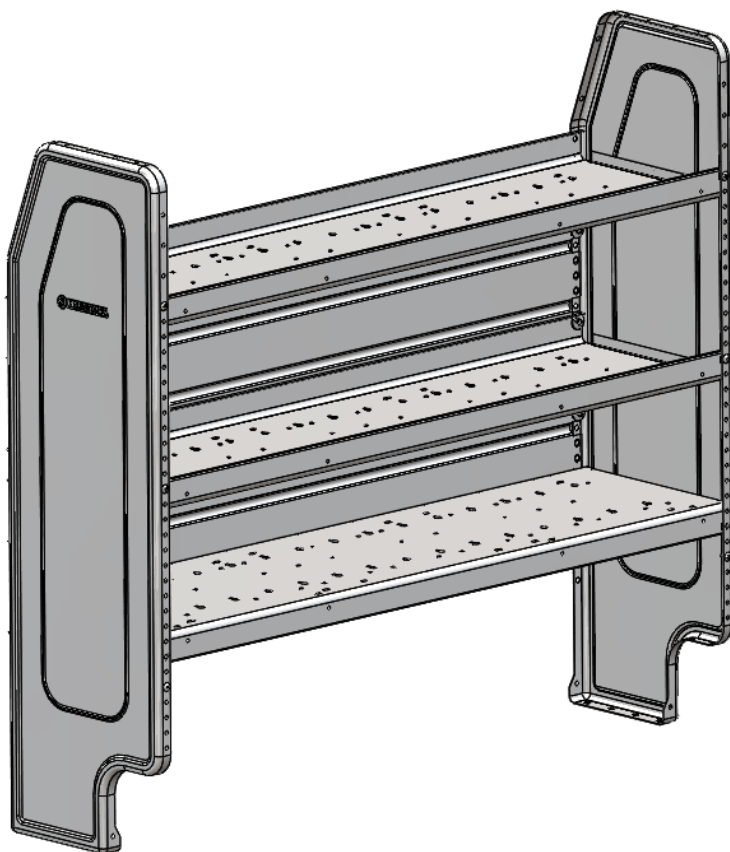


## AD50FP SHELF ASSEMBLY



PRODUCT WEIGHT  
**65 LBS**

WIDTH x DEPTH x HEIGHT  
**50" x 14" x 46"**

CAPACITY  
**92 LBS PER SHELF**

COLOR

**GRAY**

CATALOG NUMBER

**AD50FP**

### PRODUCT FEATURES

**AD series adjustable shelving unit with solid end panels and adjustable shelves. The adjustable shelves can be installed with the shelf lips "up" for cargo retention or with the shelf lips "down" to allow for the installation of accessories such as cabinet or drawer units.**

**SEE PAGE 2 FOR APPLICATION NOTES AND ACCESSORIES, OTHER PRODUCTS THAT WORK WITH THIS UNIT.**



**CATALOG NUMBER      **AD50FP****

***PRODUCT APPLICATION***

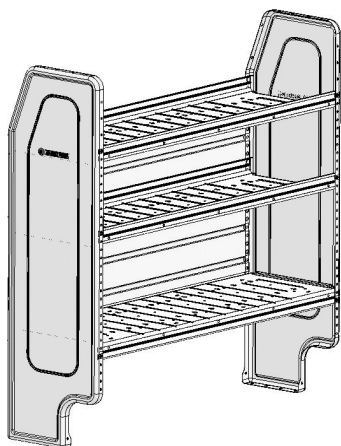
**This product is designed to be installed using AD rail mounting in full size vans.**

***ACCESSORIES THAT WILL WORK WITH THIS PRODUCT***

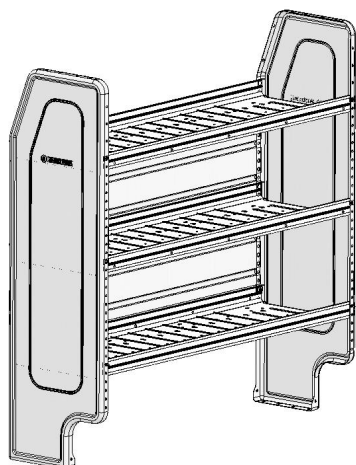
<b><i>CATALOG NUMBER</i></b>	<b><i>DESCRIPTION</i></b>
<b>35328-G</b>	<b>14X50, AD SHELF</b>
<b>35319-G</b>	<b>BACK PANEL, 50" PAINTED</b>
<b>56151-G</b>	<b>BACK PANEL, 50" ANGLED</b>

***SPECIAL APPLICATION NOTES***

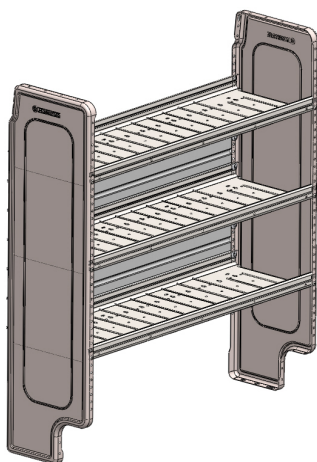
# **AD Series Shelving 26", 32", 38", 44", 50" & 60"** **Assembly and Installation**



**AD44, Shown Configured  
For  
(1) 8" Door kit  
And  
Modular Cabinets  
(DC6, DC12, 9, 19, 919)**



**AD44, Shown Configured  
For  
(2) 10" Door kits  
Or  
No accessories**



**AD44LCV  
(NISSAN FSV)  
Shown Configured  
For  
(2) 10" Door kits  
Or  
No accessories**

**BEFORE YOU START!**

IMPORTANT INSTALLATION STEPS ARE DENOTED USING A STOP SIGN. THESE STEPS MUST BE PERFORMED AS SPECIFIED IN ORDER TO ENSURE A PROPER INSTALLATION AND MUST BE FOLLOWED IN ORDER TO MAINTAIN YOUR PRODUCT WARRANTY!



CRITICAL INFORMATION PERTAINING TO USER AND/OR VEHICLE SAFETY IS DENOTED USING A CAUTION SIGN. SAFETY ITEMS MUST BE STRICTLY ADHERED TO IN ORDER TO ENSURE A SAFE WORKING ENVIRONMENT!



**YOU WILL NEED THE FOLLOWING TOOLS IN ORDER TO COMPLETE THIS JOB.**

#3 PHILLIPS SCREWDRIVER  
1/2" COMBINATION END WRENCH  
1/2" SOCKET W/RATCHET

ALL FASTENERS USED IN THE ASSEMBLY AND INSTALLATION OF THIS PRODUCT SHOULD BE TIGHTENED TO THE SPECIFIED TORQUE AS LISTED WITH EACH FASTENER CALLOUT BOX.

**Note:**

These install instructions for the AD Series shelving consists of three sections. The first is for assembling the AD shelving units using an Adrian Steel available assembly fixture/stand. Please refer to STEP 1 thru STEP 7.

The second consists of assembling the shelving units directly on the previously installed rail kits in your full size van. Please refer to STEP 8 thru STEP 9.

The remaining third section is for installing shelf divider kits if your particular shelving units come supplied with them. Please refer to page 13 thru 14.

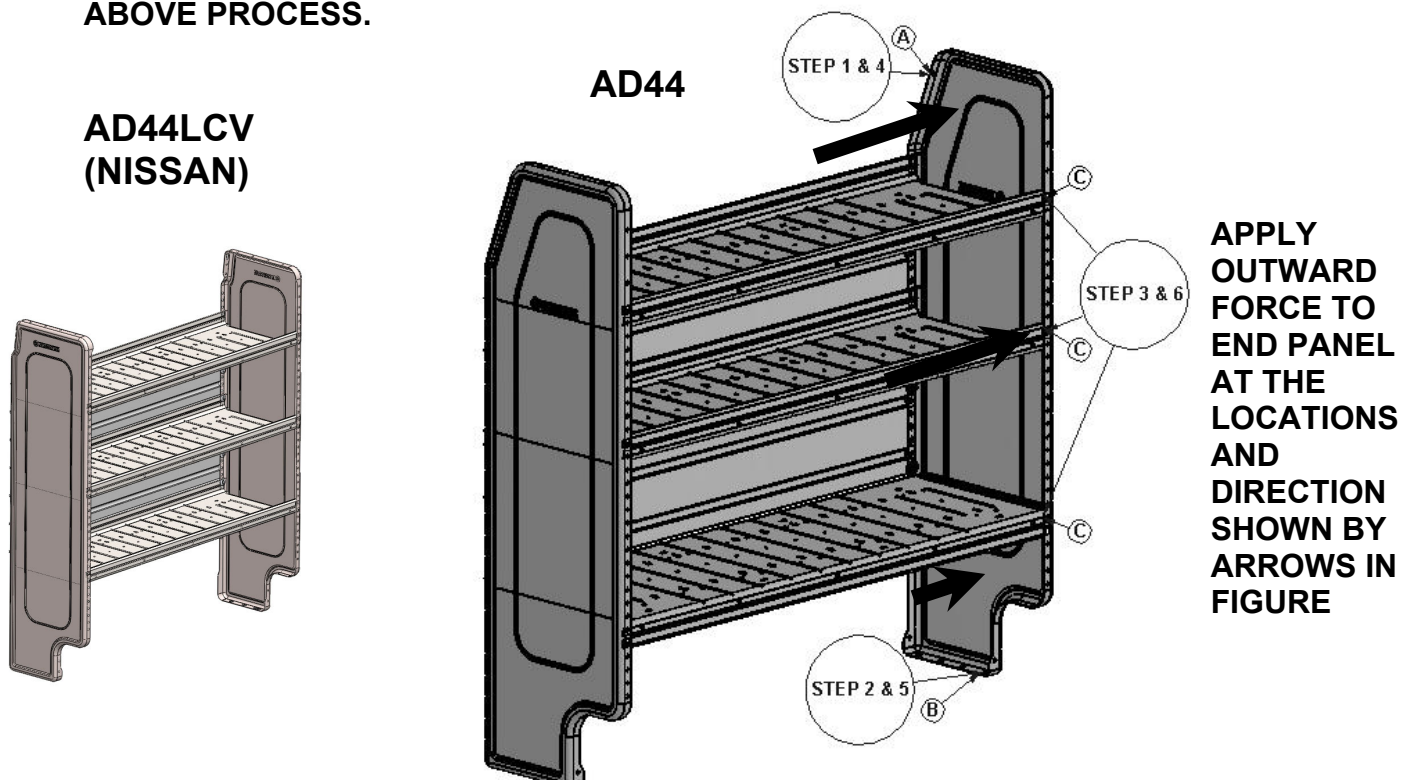
**All instruction steps described below are for assembling the shelving unit configured for (1) 8" door kit and installation of modular cabinets (DC6, DC12, 9, 19, 919) on the bottom shelf. Please see front page of cover sheet, upper illustration.**

## ADJUSTMENT OF AD SERIES SHELVING UNIT

- IF AN INSTALLED UNIT EXHIBITS AN AUDIBLE NOISE OR RATTLE AT REAR ATTACHMENT POINTS OF SHELVES.
- FOLLOW STEPS BELOW FOR ADJUSTMENT (ONLY ONE END PANEL NEEDS TO BE ADJUSTED).

### REFERENCE FIGURE BELOW FOR FOLLOWING STEPS

1. LOOSEN BOLT (A)
2. LOOSEN BOLT (B)
3. LOOSEN SCREW (C) 3 PLACES
4. RE-TORQUE BOLT (A) TO 12 ft lbs. WHILE APPLYING OUTWARD FORCE TO TOP OF END PANEL.
5. RE-TORQUE BOLT (B) TO 12 ft lbs. WHILE APPLYING OUTWARD FORCE TO BOTTOM OF END PANEL.
6. RE-TORQUE SCREW (C) TO 8 ft lbs. (3 places) WHILE APPLYING OUTWARD FORCE TO CENTER OF END PANEL
7. CHECK SHELVING UNIT FOR AUDITABLE NOISE OR RATTLE AT REAR ATTACHMENT POINTS OF SHELVES. IF NEEDED MAKE FURTHER ADJUSTMENTS TO UNIT USING ABOVE PROCESS.



**STOP**

**SHELVES SHOULD NOT BE INSTALLED OVER BLACK  
REMOVABLE RIVETS, BECAUSE THIS MAY RESULT IN SHELF  
DAMAGE.**

**STOP**

## AD SERIES "KD STYLE" ADJUSTABLE STYLE SHELVING UNITS

### Step 01

#### End Panel Installation

**35289-G & 35290-G (STANDARD FSV)  
EPS1451LH & EPS1451RH (NISSAN FSV)**





Install end panels into the fixture as shown below (Fig 2). Align the holes in the bottom end panel flange and install over the roll pins located at the base of the fixture (Fig 3). Secure the top end panel flange with the toggle clamp as shown below (Fig 4). Repeat for the (2<sup>nd</sup>) end panel.



**Figure 01**

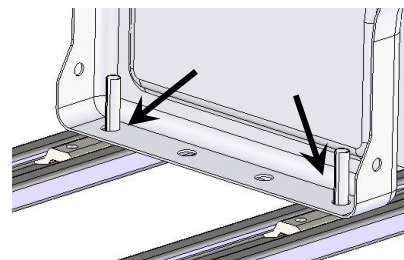
#### Recommended AD Series Assembly Fixture/Stand (ref p/n: 36710-0 see Figure 1)

Pre-assembly of the shelving units outside of the van provides greater accessibility, stability, and lighting.

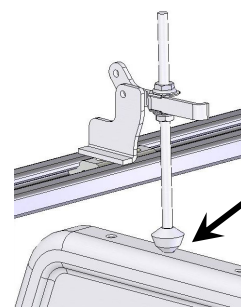
 <p>35289-G PANEL, END, LH, AD44FP QTY = 1</p>	 <p>EPS1451LH PANEL, END, LH, AD44LCV QTY = 1</p>
 <p>35290-G PANEL, END, RH, AD44FP QTY = 1</p>	 <p>EPS1451RH PANEL, END, RH, AD44LCV QTY = 1</p>



**Figure 2**



**Figure 3**



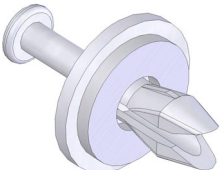
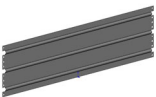
**Figure 4**

## AD SERIES "KD STYLE" ADJUSTABLE STYLE SHELVING UNITS

### Step 02 Back Panel (Upper) Installation

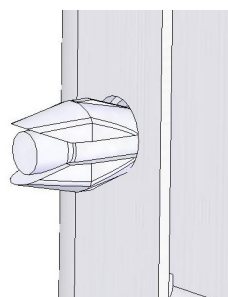
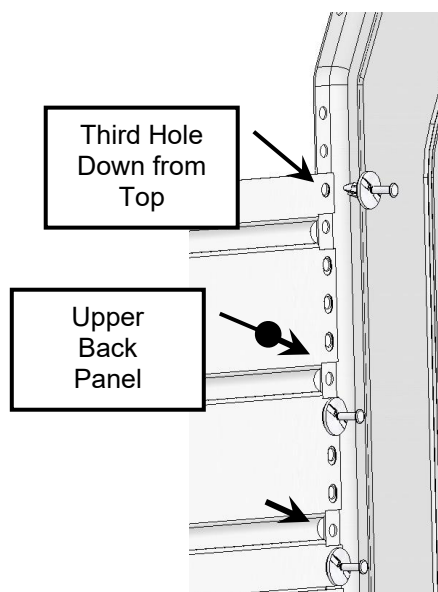
Place (6) removable, push-rivets (FAS0710) and EPDM washers (FAS0688) into the holes on each end of the back panel (35310-G) as shown below in Fig 5. Do not push in the center post of the push-rivet at this time. Position the upper back panel (35310-G) with the installed push-rivets between the (2) upright end panels, Fig. 6. Align the top push-rivets with the (3rd) hole down as shown in Figure 5. Depress the locking column to secure the back panel to the end panel. Install the remaining (5) push-rivets onto the back panel. Back panel should be orientated with the cylindrical embossments (ribs) as shown in detail views shown below.

**NOTE:** For all of the shelving unit configurations shown on the cover page, the upper back panel is positioned and installed the same way.

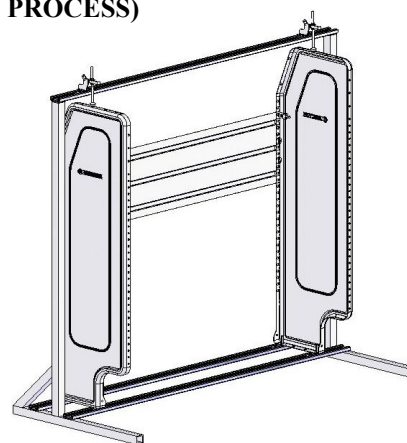
 <b>FAS0712</b> <b>7/16" REMOVABLE RIVET</b> <b>QTY = 6</b>	 <b>35310-G 44"</b> <b>35318-G 32"</b> <b>46771-G 38"</b> <b>35319-G 50"</b> <b>71955-G 60"</b> <b>BACK PANEL</b> <b>QTY = 1</b>
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AD44 SHOWN (AD44LCV USES SAME PROCESS)

**Figure5**



**Figure 7**  
**Fastened state**



**Figure 6**




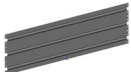
## AD SERIES "KD STYLE" ADJUSTABLE STYLE SHELVING UNITS

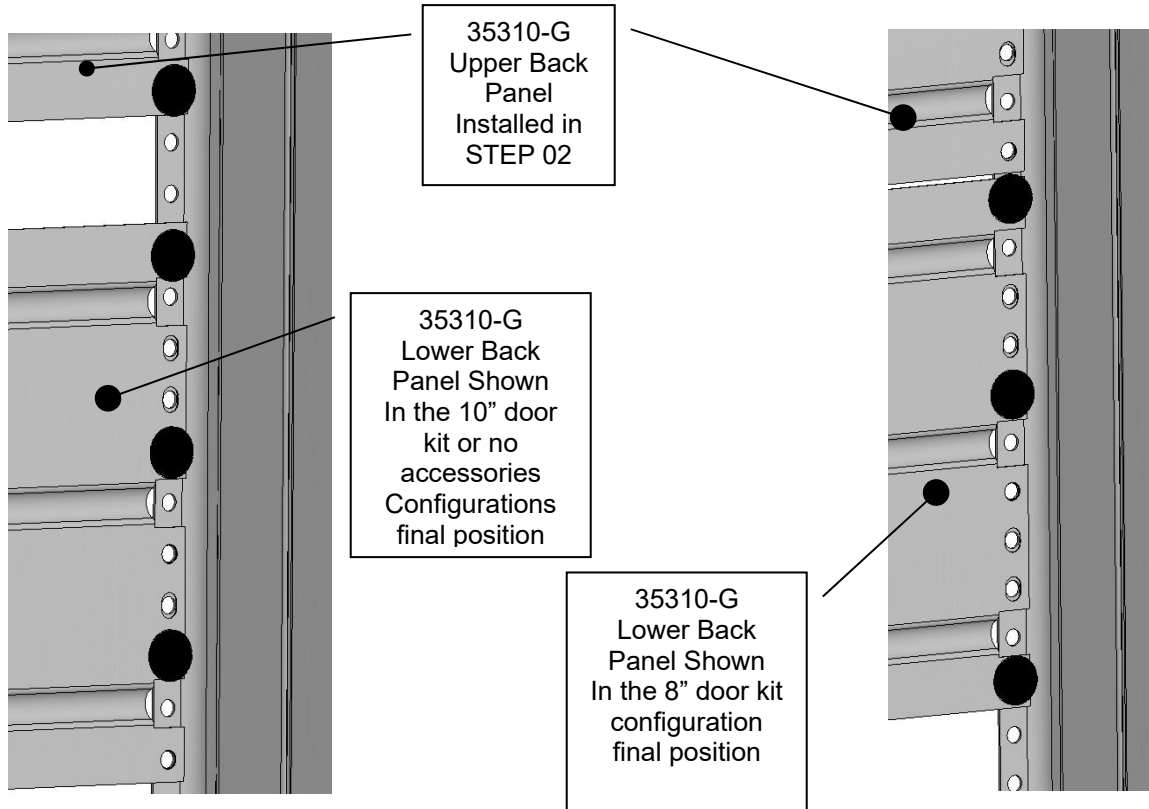
### Step 03

#### Back Panel (Lower) Installation 35310-G & FAS0712

**NOTE:** When the unit is configured for (2) 10" door kit, or no accessories are installed. The lower back panel is positioned in (Figure 9). So that the shelves will be equal distance apart.

**NOTE:** When the unit is configured for (1) DK4208 and Modular Cabinets installation. The lower back panel is positioned in (figure 10). The shelves will not be an equal distance apart.

 <p>FAS0712 7/16" REMOVABLE RIVET QTY = 6</p>	 <p>35310-G 35318-G 46771-G 35319-G 71955-G BACK PANEL QTY = 1</p>
--	--



**Figure 9**

**Figure 10**



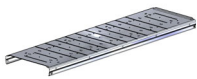

## AD SERIES "KD STYLE" ADJUSTABLE STYLE SHELVING UNITS

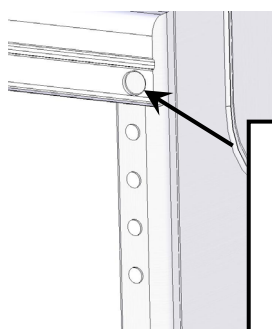
### Step 04 Bottom Shelf (1 of 3) Installation

Position the bottom (1 of 3) shelf into the unit. With the shelf stud located in the back shelf flange engaged into the end panel holes as shown in Fig 11, 12, 13 push down on the front edge of the shelf until shelf is horizontal. Align the end panel thru holes with the shelf tinnerman fastener and secure in place with a 1/4-20UNC x 1/2" THP screw (FAS0061). Repeat for opposite side of the shelf weldment.

**NOTE:** When a modular component is going to be mounted on a shelf the flanges need to be pointed down. Normal shelf flange orientation is pointed up.

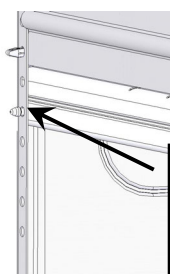
**NOTE:** When installing shelves onto end panels. Make sure that the removable rivets do not come in contact with the shelf. The rivets will need to be moved if this occurs

 <p><b>35325-G 32", 46772-G 38", 35327-G 44" 35328-G 50", 71956-G 60"</b> SHELF, PAINTED QTY = 1</p>	 <p><b>FAS0061</b> SCREW, THP, 1/4-20UNC X 1/2" QTY = 2 ( 8 ft-lbs Torque )</p>
---	---



**Figure 11**

Shelf Weldment  
Stud Shown  
Engaged in 5TH  
Hole Up from  
Bottom.  
(NISSAN IS 8<sup>TH</sup>  
HOLE UP)



**Figure 12**

Shelf Weldment  
Stud Shown  
Engaged in Fifth  
Hole Up from  
Bottom.  
(NISSAN IS 8<sup>TH</sup>  
HOLE UP)



**Figure 13**

Fifth Hole  
Up from  
Bottom.  
(NISSAN IS  
8<sup>TH</sup> HOLE  
UP)



**SHELVES SHOULD NOT BE INSTALLED OVER BLACK  
REMOVABLE RIVETS, BECAUSE THIS MAY RESULT IN SHELF  
DAMAGE.**



**IF SHELVES HAVE BEEN INSTALLED OVER BLACK  
REMOVABLE RIVETS, BEND SHELF BACK TO ORIGINAL STATE  
(90 DEGREES)**



## AD SERIES "KD STYLE" ADJUSTABLE STYLE SHELVING UNITS

### Step 05 Center & Upper Shelf Installation

Repeat the procedure describing the lower shelf installation and repeat process for the remaining (2) shelf weldment assemblies. STANDARD AD44 SHOWN

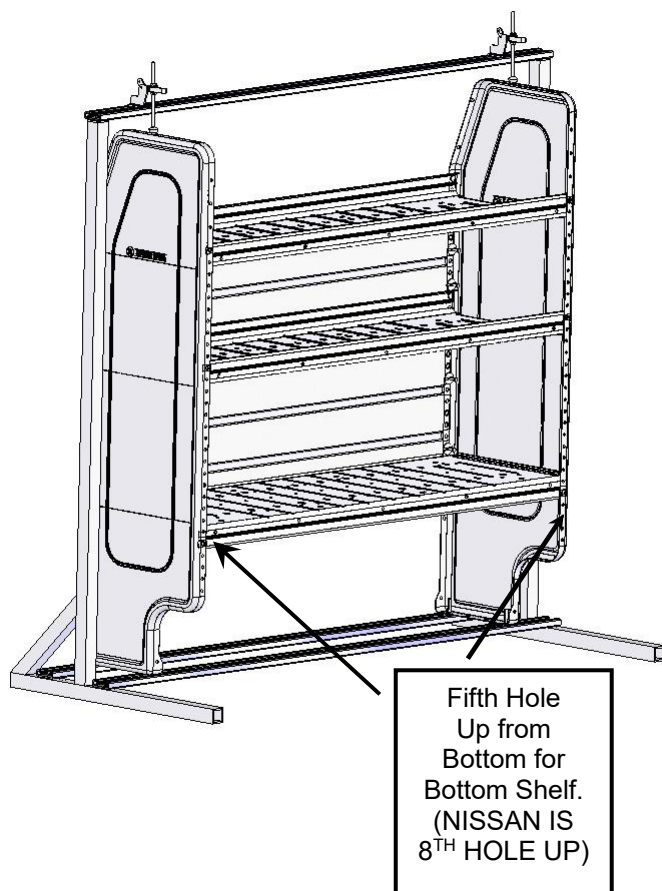


Figure 14

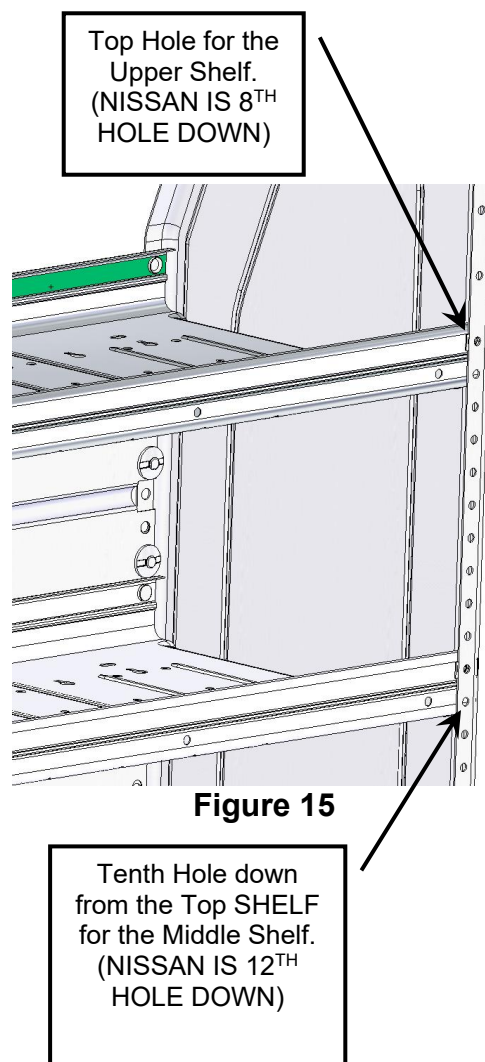


Figure 15



**SHELVES SHOULD NOT BE INSTALLED OVER BLACK  
REMOVABLE RIVETS, BECAUSE THIS MAY RESULT IN SHELF  
DAMAGE.**



**IF SHELVES HAVE BEEN INSTALLED OVER BLACK  
REMOVABLE RIVETS, BEND SHELF BACK TO ORIGINAL STATE  
(90 DEGREES)**



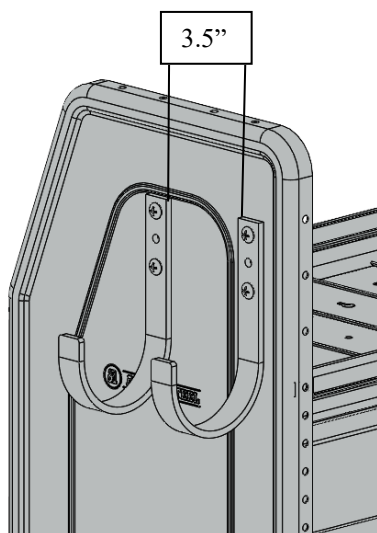
## AD SERIES "KD STYLE" ADJUSTABLE STYLE SHELVING UNITS

### Step 06 (Optional) Utility Hook Installation

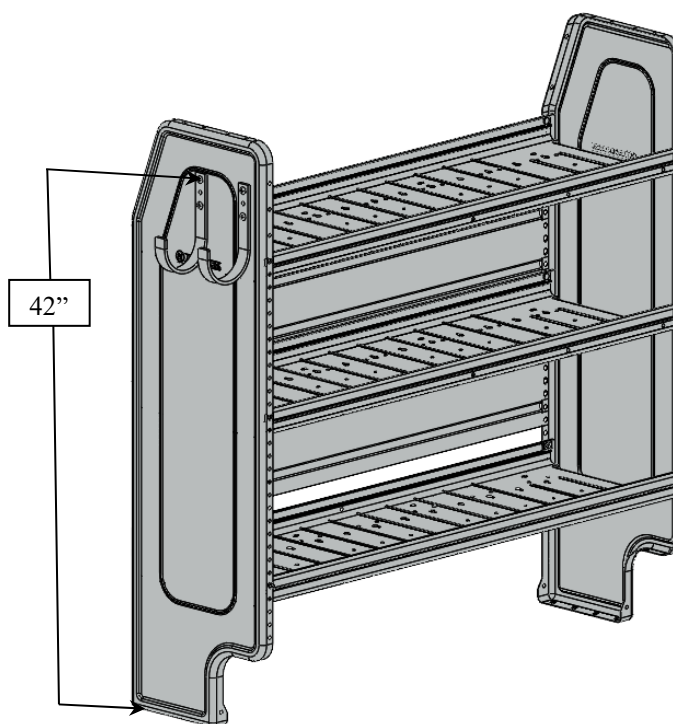
Align utility hooks at designated height from the base to the upper hook hole as depicted in figure 16 & 17.

Drill holes as depicted in figure 16 and fasten.

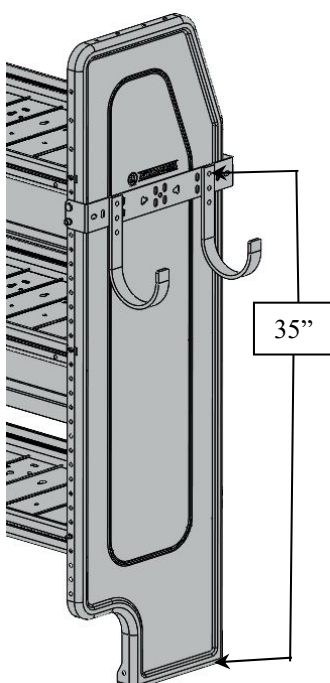
**Figure 16**



**Figure 17**



**Figure 18**

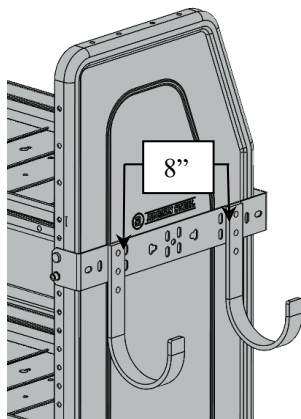


#### Alternate installation:

Mount and fasten BRK14EPS at location depicted in figure 18.




Position and fasten utility hooks at designated location depicted in figure 19.

**Figure 19**



## AD SERIES “KD STYLE ADJUSTABLE STYLE SHELVING UNITS

### Step 07 Typical Shelving Unit into FSV Installation AD44 SHOWN AD44LCV (NISSAN) IS SIMILAR

 <b>FAS0085</b> WASHER, EXT TOOTH LOCK, 5/16"ID QTY = 4	 <b>FAS0086</b> WASHER, FLAT, 5/16"ID QTY = 4	 <b>FAS0165</b> BOLT, HEX HD, 5/16-18UNC X 5/8"LG QTY = 4 TOTQUE TO 12ft lbs.
--	---	--

Place completed AD Series shelf unit into the vehicle and position as shown in Fig. 20. Please note that the exact position in the vehicle will depend on the PDS sheet and/or the end users requirements. This is only a general guideline.

Locate the floor rail kit extruded alum “sled” as shown in Fig. 21 and reposition the threaded hole directly under the end panel flange thru hole as shown in Fig. 22. Secure shelf flange to the “sled” with fasteners shown above. Leave fasteners loose at this time for easy repositioning of the shelf during the following steps. Repeat for the opposite end panel



**Figure 20**



**Figure 21**



**Figure 22**



## AD SERIES “KD STYLE” ADJUSTABLE STYLE SHELVING UNITS

### Step 07 (Continued) Typical Shelving Unit into FSV Installation

Locate the upper side wall rail extruded alum “sled” as shown in Fig. 23 and reposition the threaded hole directly behind the end panel flange thru hole as shown in Fig. 24. Secure shelf flange to the “sled” with fasteners listed at beginning of Step 7 (pp 10). Leave fasteners loose at this time for easy repositioning of the shelf during the following steps. Repeat for the opposite end panel.

#### Note:

Once all the fasteners securing the AD Series shelf unit to the rail kit are in place, reposition the shelving unit to the final desired location and tighten all fasteners, to 12 +/- 1 ft-lbs.



Figure 23



Figure 24



Figure 25

## AD SERIES “KD STYLE ADJUSTABLE STYLE SHELVING UNITS

### **Step 08** **INSTALLING SHELVING UNITS DIRECTLY ONTO RAIL KITS** **( RKFSVLWB, RKFSVXLW, RKFSVLHD )**

This second section consists of assembling the shelving units directly on the previously installed rail kits in your full size van. It should be noted that the assembly sequence of the shelving units are almost exactly the same as outlined in previous section.



**Figure 26**






**Figure 27**

## AD SERIES "KD STYLE ADJUSTABLE STYLE SHELVING UNITS

### Step 09

#### End Panel Installation

STD. AD44 SHOWN, AD44LCV (NISSAN) SIMILAR.

 <b>FAS0085</b> WASHER, EXT TOOTH LOCK, 5/16"ID QTY = 4	 <b>FAS0086</b> WASHER, FLAT, 5/16"ID QTY = 4	 <b>FAS0165</b> BOLT, HEX HD, 5/16-18UNC X 5/8"LG QTY = 4 TOTQUE TO 12ft lbs.
--	---	--

Install end panels into the vehicle and attach to the rail kits as illustrated below in Fig 28. Align the lower end panel flange on the lower rail and secure end panel to the slide as shown in Fig. 29 & 30 using fasteners listed. Attach the top back flange of each end panel in similar manor to the upper rail as illustrated below in Fig. 30 & 31.

Adjust initial position of both end panel to there approximant final position on the rails (curb or street side). Tighten the fasteners only hand tight at this time; you will need to make adjustments during the installation of the back panels and shelves. Once the unit is assembled refer to step 7 above.



Figure 28



Figure 29



Figure 30



Figure 31

**NOTE: REFER BACK TO PAGE 3 TO CHECK UNITS.**



**DOUBLE-CHECK ALL FASTENER LOCATIONS TO BE  
SURE THAT ALL FASTENERS ARE TIGHTENED TO  
SPECIFICATIONS!**



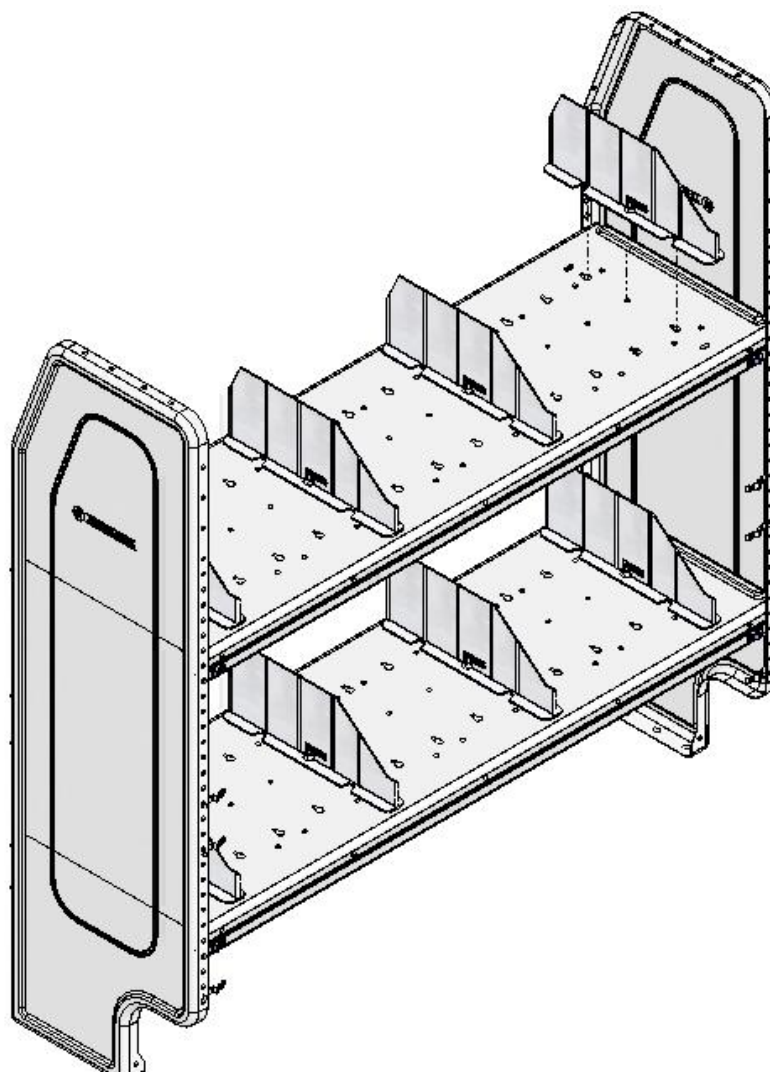
**YOUR INSTALLATION IS NOW COMPLETE! STOW THIS COPY IN THE  
VEHICLE FOR FUTURE REFERENCE!**

ADRIAN STEEL COMPANY • 906 JAMES ST. • ADRIAN, MI. 49221 • (517) 265-6194



**DIVIDER KIT  
AD SERIES 42" SHELVING  
Ref: 35317-G for 42" SHELVING ONLY!  
Installation Instructions**

**ORDER DIVIDERS SEPERATELY FOR AD26, AD32, AD38, AD50 OR AD60  
SHELVES. ALL OTHER INSTALLATION ARE THE SAME.**



STANDARD AD44 SHOWN, AD44LCV (NISSAN) USES THE SAME PROCESS.

**AD SERIES “KD STYLE  
ADJUSTABLE STYLE SHELVING UNITS**

**VEHICLE PREPARATION, BEFORE YOU START**

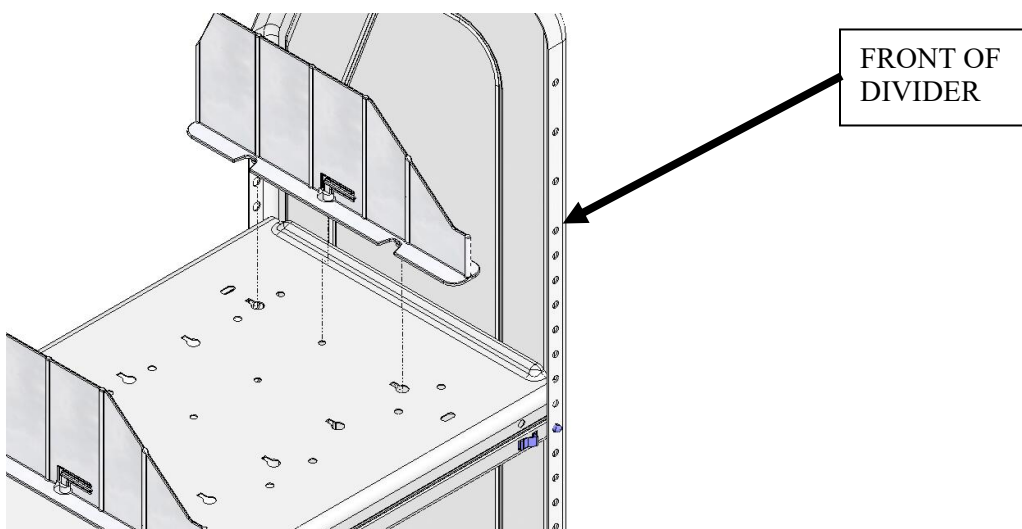
Unpack dividers. Make sure that you have the correct number of dividers for the number of shelves, or the kit ordered DV14C8 or DC14C1 kit of (1).

**NOTE:** This divider will only work with the 42” shelving.



**STEP – 01**

**INSERT 35317-G DIVIDER END PINS INTO SLOTTED HOLES**



To install dividers onto shelves. Insert the (2) outside pins into the corresponding holes and slide back towards the rear of the shelving unit until the middle pin snaps into the middle hole. To remove the divider pull up on the middle pin's tab and slide toward the front of the shelf.



**DOUBLE-CHECK ALL DIVIDER LOCATIONS TO BE  
SURE THAT ALL TABS ARE IN PLACE TO PREVENT  
LOSS OF DIVIDER OR PRODUCT SHIFT!**



**YOUR INSTALLATION IS NOW COMPLETE! STOW THIS COPY IN THE  
VEHICLE FOR FUTURE REFERENCE!**