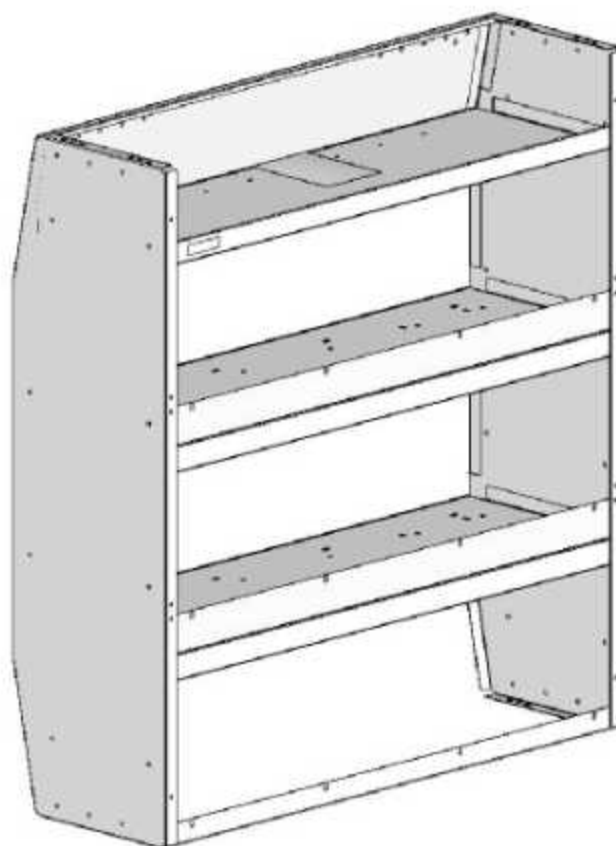


WELDED SHELF UNIT INSTALLATION INSTRUCTIONS



4432 32" SHELF UNIT

4442 42" SHELF UNIT

4450 50" SHELF UNIT

P.N.: 33378-0

ISSUE: D

CHK.BY:

REV.BY: BTS

DWG.BY: RJB

ECN- 13014 DATE: 5-25-10

Welded Shelf Unit Assembly/Install

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	9/16" OPEN END WRENCH FOR SETTING PLUSNUTS, DRILL MOTOR, 3/8" DRILL BIT WITH 1/2" DEEP STOP
WRENCHES	RATCHET WRENCH, WITH 7/16" & 1/2" SOCKET TORQUE WRENCH

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.



THE USE OF AIR OR ELECTRIC IMPACT TOOLS FOR THE ASSEMBLY OF FASTENERS IS NOT RECOMMENDED AND COULD CAUSE FASTENER FAILURE!



WARNING



THE USE OF DRILLS WITH INTEGRAL DRILL STOPS ALONG WITH PROPER INSPECTION FOR GAS TANK, GAS LINES, BRAKE LINES AND ELECTRICAL LINES PRIOR TO DRILLING ANY MOUNTING HOLES IS STRONGLY RECOMMENDED TO ENSURE THAT VEHICLE DAMAGE IS AVOIDED!



THE USE OF NON-STANDARD FASTENERS AND/OR DEVIATING FROM THE FASTENERS SPECIFIED IN THE INSTRUCTION (S) MAY VOID YOUR PRODUCT WARRANTY!

ALL DRILLED HOLES IN THE VEHICLE SHOULD HAVE THE RAW METAL EDGES SEALED WITH A SELF-ETCHING PRIMER TO RESIST CORROSION AND POTENTIAL FASTENER POINT FAILURE!

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Welded Shelf Unit Assembly/Install



**TO PREVENT EXHAUST FUMES FROM ENTERING THE VEHICLE,
ALL HOLES SHOULD BE SEALED AT INSTALLATION WITH
BUTYL OR SILICON SEALANT MATERIAL.**



Whenever a plusnut is specified it is important that the proper size installation hole is provided.

PLUSNUT SIZE		DRILL SIZE (with stop)
1/4-20 PLUSNUT, FAS0052		3/8" DIAMETER
5/16-18 PLUSNUT, FAS0091		1/2" DIAMETER

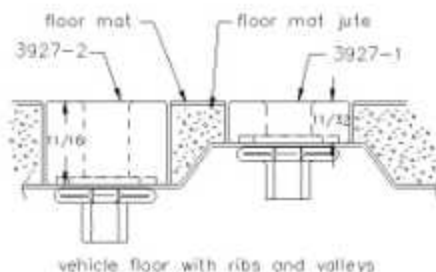
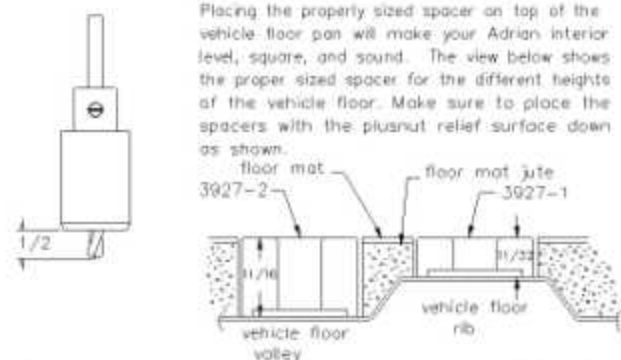
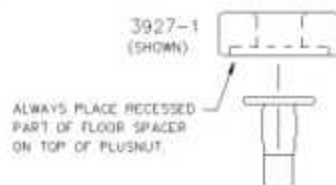
FOR MOUNTING THROUGH A FLOOR MAT AND/OR CARPET

Position each item in desired location inside the vehicle and mark the floor mounting locations.

It is recommended that a drilling template be used to ensure an accurate placement of components is achieved for this installation.

Using the cutting tool, drill a pilot hole thru the mat/carpet and metal floor pan.

Spacer Use and Installation



The location of various floor mounts will determine what spacer combination will be used. For example, an 11/32" spacer is used atop floor ribs, and an 11/16" high spacer is used atop floor valleys.

STOP

**THE PROPER USE OF SPACERS IS REQUIRED WHEN MOUNTING
OVER MAT/CARPET TO ENSURE THE METAL-TO-METAL CLAMP-
UP, WHICH WILL PREVENT UNWANTED COMPONENT SHIFTING
AND POTENTIAL FAILURE DURING USE.**

STOP

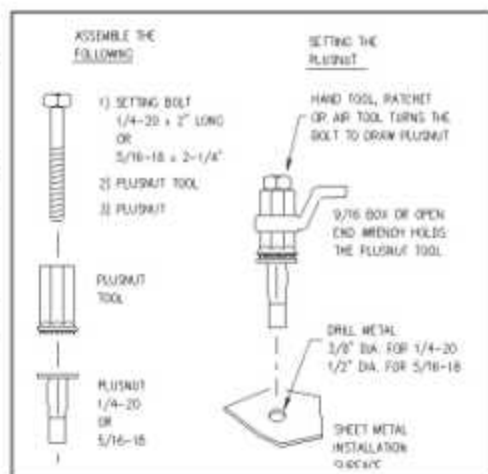
Welded Shelf Unit Assembly/Install

DRILLING AND SETTING PLUSNUT

Floor locations use the cutting tool to drill a pilot hole thru the mat/carpet and metal floor pan.




Floor and header rail locations: Use 3/8" drill bit with stop for header rail. Use 1/2" drill bit with stop for floor locations.

Clean up debris from drilling and coat the raw metal edges of all drilled holes with a self-etching primer. Install plusnuts.

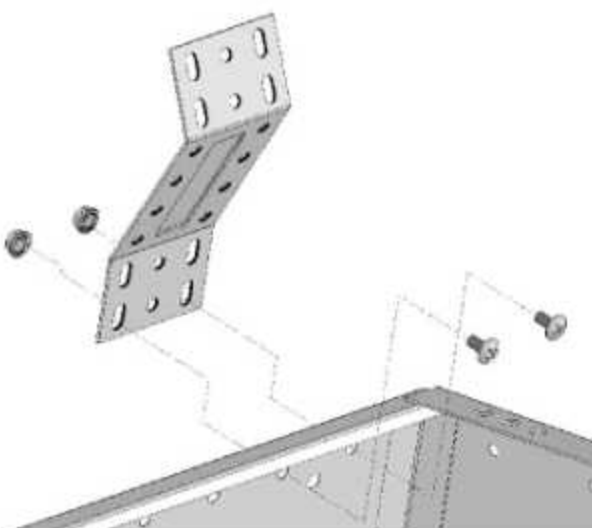


STEP - 01

MOUNT BRACKET ONTO SHELF UNIT

 <p>08308-1 MB111 MOUNT BRKT WO/FAS (2) REQ'D.</p>	 <p>FAS0061 SCREW, THP 1/4-20X.50 TORQUE 8 ft. lbs. (4) REQ'D.</p>	 <p>FAS0055 NUT, HEX FLANGE 1/4-20 (4) REQ'D.</p>
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Install (2) 08308-1 to the shelf unit as shown below. Do not completely tighten to shelf for adjustment to get good location on header rail. The brackets can be moved to avoid obstacles.







Welded Shelf Unit Assembly/Install


STEP - 02

DRILLING VEHICLE FOR INSTALL OF UNIT TO INTO VEHICLE

FASTENERS NEEDED FOR HEADER RAIL

			
FAS0078 SCREW, HEX HEAD 1/2-20 X 1" TORQUE 12 ft. lbs.	FAS0060 WASHER, LOCK, SPLIT 1/4"	FAS0067 WASHER, FLAT 1/4"	FAS0052 1/2-20 PLUSNUT

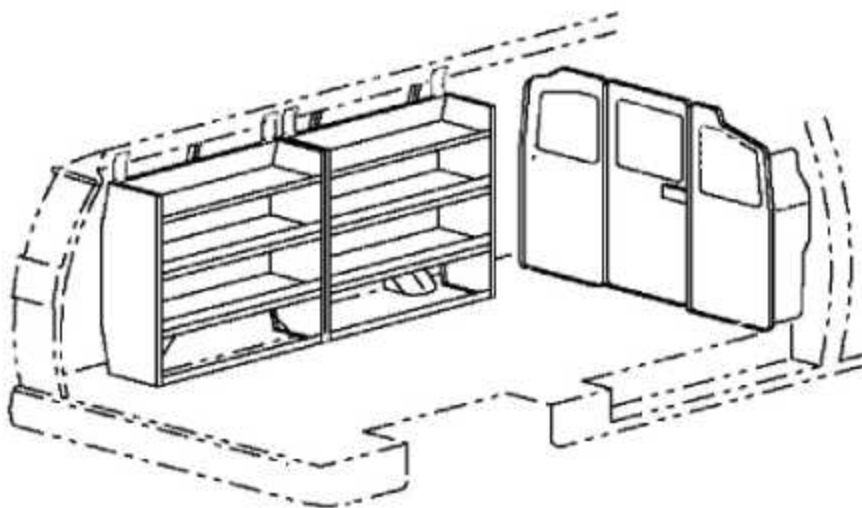
FASTENERS NEEDED FOR FLOOR

	
03927-1 11/32 C/F 1006 SPACER	03927-2 11/16 C/F 1006 SPACER

SPACERS ARE USED TO CREATE A LEVEL, AND SOLID INSTALLATION.
(REFER TO PAGE 3 FOR SPACER APPLICATION)

			
FAS0092 SCREW, HEX HEAD 5/16-18 X 1.5" TORQUE 12 ft. lbs.	FAS0098 WASHER, LOCK, SPLIT 5/16"	FAS0086 WASHER, FLAT 5/16"	FAS0091 5/16-18 PLUSNUT

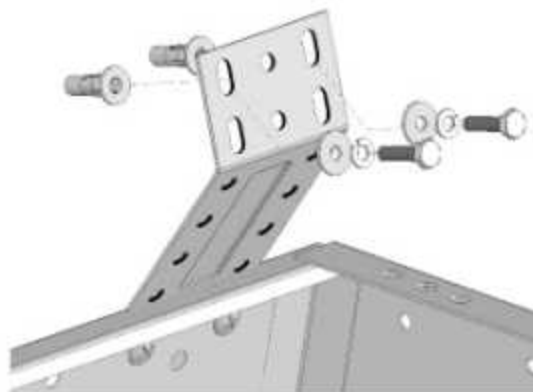
Position welded unit(s) in desired position. Be careful not to position header brackets over holes or other header rail obstacles. Mark all header and floor mounting positions. Remove welded units. Drill all marked mounting positions with correctly sized drill bit with stop.



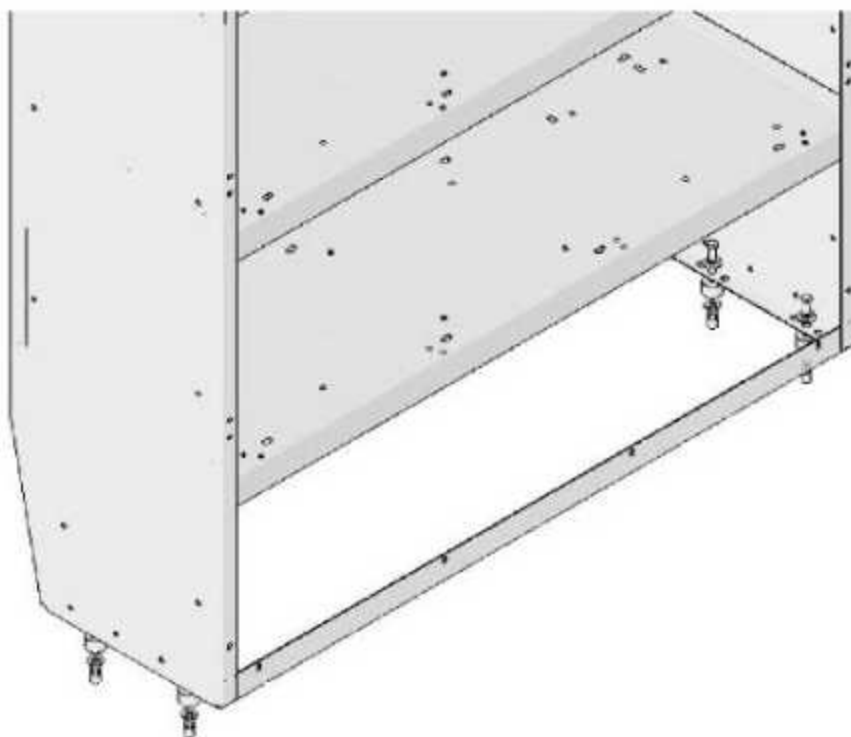
STEP – 02 cont

MOUNTING SHELF UNIT INTO VEHICLE

Install (2) bolts per header bracket as shown below. (Picture for reference only)



Install two (2) bolts per side as shown below. (Image below is for reference only). The location of various floor mounts will determine what spacer combination will be used. For example, an 11/32" spacer is used atop floor ribs, and an 11/16" high spacer is used in floor valleys. The holes on the floor crossbar are not used unless a floor level door kit is being installed. In this case, one of the holes is selected and the single fastener that is supplied with the door kit is installed (not shown).



Welded Shelf Unit Assembly/Install

STEP - 3

WHEN JOINING TWO SHELF UNITS TOGETHER FOLLOW THE INSTRUCTIONS BELOW. OTHERWISE PROCEED TO NEXT STEP.

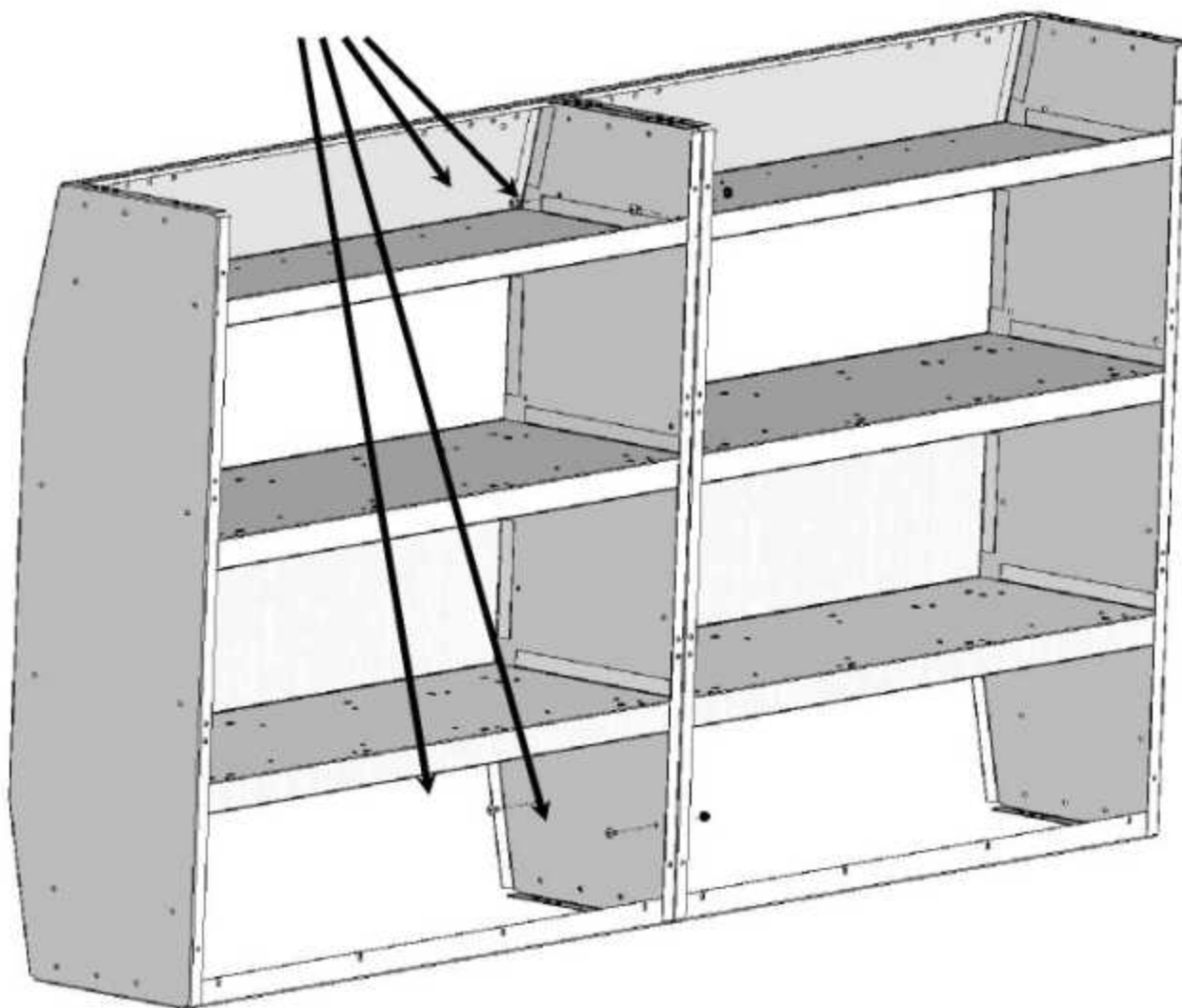
FASTENERS SHOWN BELOW ARE USED IN JOINING TWO SHELF UNITS TOGETHER.



FAS0061
SCREW, THP 1/4-20X.50 P/G5
TORQUE 8 ft. lbs.
(4) REQ'D.



FAS0055
NUT, HEX FLANGE
1/4-20
(4) REQ'D.



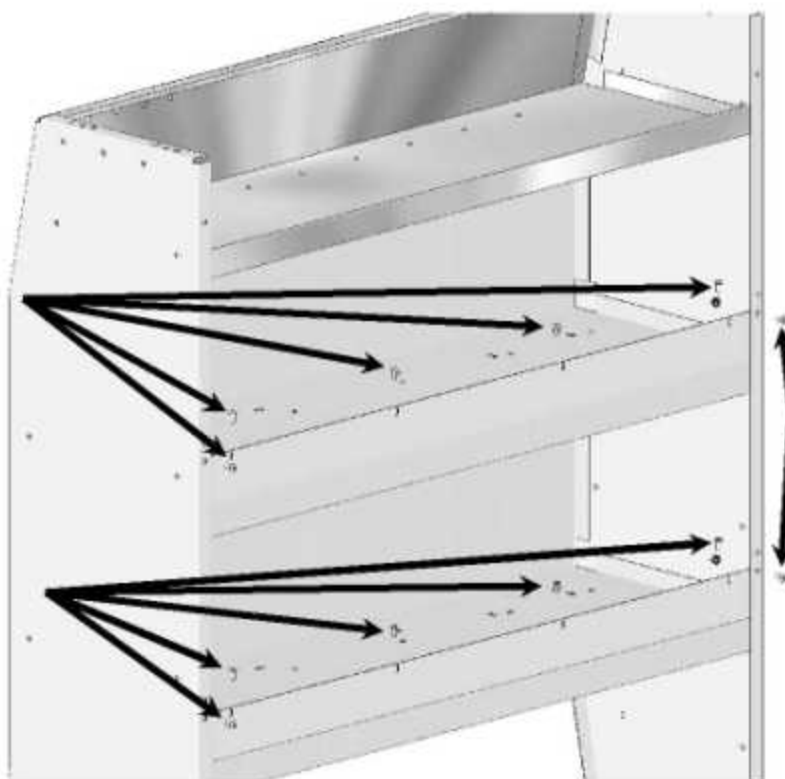
Welded Shelf Unit Assembly/Install

STEP - 04

SHELF RAIL MOUNTING TO WELDED SHELF UNIT

 <p>SR44 SHELF RAIL - #44 (2) REQ'D.</p>	 <p>FAS0025 SCREW, THP #10-24 X.50 TORQUE 32 IN-LBS (12) REQ'D.</p>	 <p>FAS0020 NUT, HEX FLANGE #10-24 (12) REQ'D.</p>
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Install (2) SR44 to the shelf unit as shown below. Secure the shelf rails with the fasteners shown above, tighten to recommended torque.



STOP

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

STOP

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

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