

FASTENER GROUPS LISTED BELOW ARE USED FOR ASSEMBLY AND INSTALLATION. **SOME ASSEMBLY DRILLING IS REQUIRED.** PARTITION INSTRUCTIONS & FASTENERS ARE WITH THAT UNIT. USE KD UNIT DRAWINGS TO IDENTIFY THEIR SEPARATE PARTS. CUSTOMER SPECIFIED SHELF DIMENSIONS ARE SHOWN HERE.

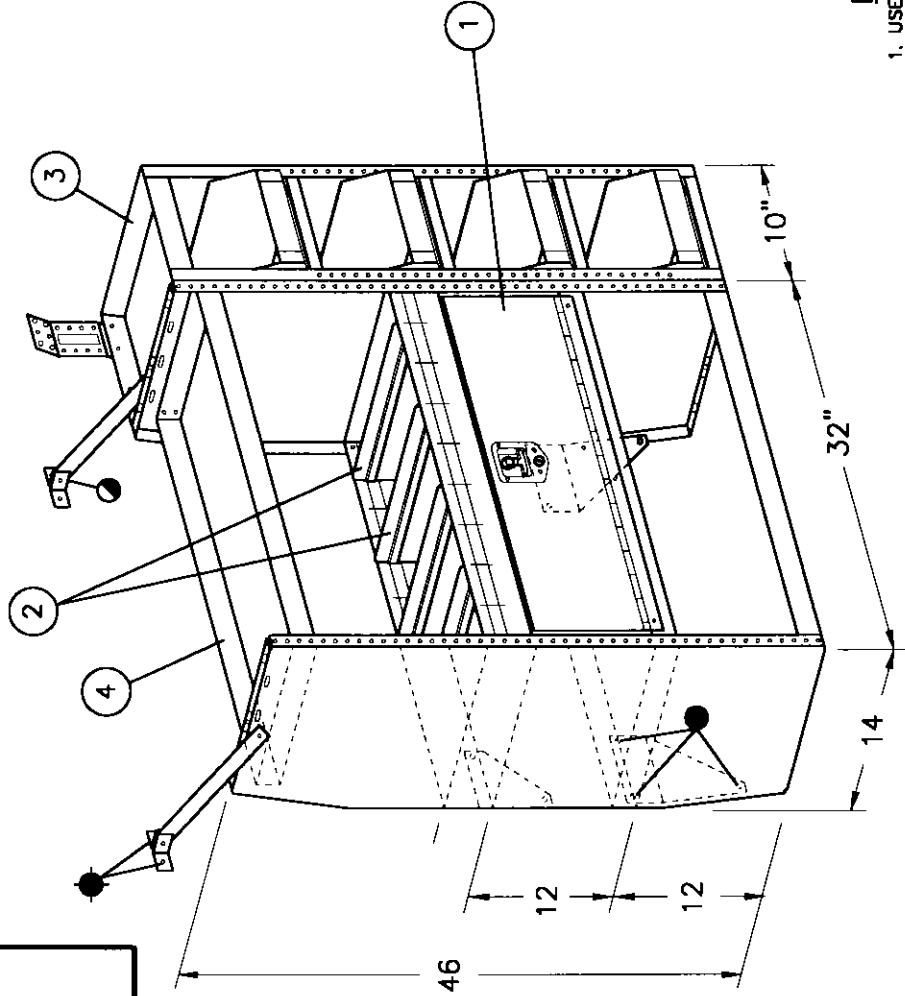
SYM.	FASTENERS	QTY	DRILL
ASSEMBLY FASTENERS			
●	{ 1/4-20 x 1/2" THP.SCW. (32) }	{ (32) }	{ 9/32 }
●	{ 1/4-20 HX. FLANGE NUT (32) }	{ (32) }	{ 9/32 }
●	{ 1/4-20 x 3/4" HX.HD.SCW. (4) }	{ (4) }	{ 9/32 }
●	{ 1/4-20 HX. FLANGE NUT (8) }	{ (8) }	{ 9/32 }
INSTALLATION FASTENERS			
●	1/4-20 PLUSNUT "PB"	(4)	
●	{ 1/4-20 x 1" HH.SCW.FT (4) }	{ (4) }	{ 13/32 }
●	1/4 PLN WASH	(4)	
●	1/4 SPLIT RING L'WASHER	(4)	
●	1/4-20 PLUSNUT "PB"	(3)	
●	{ 1/4-20 x 1-1/2" HH.SCW.FT (3) }	{ (3) }	{ 13/32 }
●	1/4 PLN WASH	(3)	
●	1/4 SPLIT RING L'WASHER	(3)	
●	1/4 PLN. WASHER	(6)	
●	{ 1/4-20 HX.STOP NUT (3) }	{ (3) }	{ 9/32 }
●	{ 1/4-20 x 1-1/2" HH.SCW.FT (3) }	{ (3) }	{ 9/32 }
●	1/2 PLN. WASHER	(3)	
	PLUSNUT TOOL	(1)	



MD533 MODULE SPECIAL
HD KD SHELF UNIT
14 x 46 x 42

DWG BY	ECN#	DATE	CHK'D BY	PACKAGE#	SS
JLC	7398	6/04/04	Rob	MD533	A
PACKAGE WEIGHT-		117.00 #	REF 20964		
ITEM	PART NO.	DESCRIPTION		QTY.	
1	DK532	DOOR KIT #50/30-32		1	
2	DV14	DIVIDER/PNTD: #50KD		4	
3	33WB	SHELF / RACK WITH BINS		1	
4	296B2	KD UNIT SPEC. 14x46x32 HD		1	
	EPI446	END PANEL KD 46"		2	
	FR32	FLOOR RAIL 32"		1	
	GS6x10LH	GUSSET LH #50-#30 KD's		1	
	GS6x10RH	GUSSET RH #50-#30 KD's		1	
	GS6x6	GUSSET, 6" TRIANGLE		2	
	MB118	MOUNT ANGLE 1-1/2" / GAL		4	
	MB120	STRAP, BRKT. 13-1/2" / GAL		2	
	SF21232	TOP TRAY 2x12x32		1	
	SF21432	SHELF 30/50KD 2x14x32		1	
	SF41432	SHELF HD-KD 4x14x32		1	

HEIGHT FROM FLOOR TO LOWEST SHELF WILL VARY DEPENDING ON THE HEIGHT OF YOUR VEHICLES WHEELHOUSE.
PLEASE REFER TO THE INTERIOR INSTALLATION SHEET FOR CORRECT SHELF HEIGHT BEFORE ASSEMBLY.



CAUTION:
DRILL THRU FLOOR WITH CARE
WATCH FOR GAS TANK, CONTROL
LINES, & ELECTRICAL WIRING.

FASTENING PROCEDURES

1. USE NUT & BOLT THRU WHEREVER POSSIBLE.
2. USE PLUSNUTS FOR BLIND FASTENING.
3. USE SHEET METAL SCREWS IN SHEAR ONLY.

FASTENER GROUPS LISTED BELOW ARE USED FOR ASSEMBLY AND INSTALLATION. **SOME ASSEMBLY DRILLING IS REQUIRED.** PARTITION INSTRUCTIONS & FASTENERS ARE WITH THAT UNIT. USE KD UNIT DRAWINGS TO IDENTIFY THEIR SEPARATE PARTS. CUSTOMER SPECIFIED SHELF DIMENSIONS ARE SHOWN HERE.

SYM.	FASTENERS	QTY	DRILL
ASSEMBLY FASTENERS			
●	{ 1/4-20 x 1/2" THP.SCW.	(16)	9/32
	{ 1/4-20 HX. FLANGE NUT	(16)	
●	{ 10-24 x 1/2 RHP.SCW.	(8)	3/16
	{ 10-24 HX. FLANGE NUT	(8)	
⊕	{ 10-24 x 1/2 RHP.SCW.	(4)	3/16
	{ 10-24 ELASTIC L'NUT	(4)	

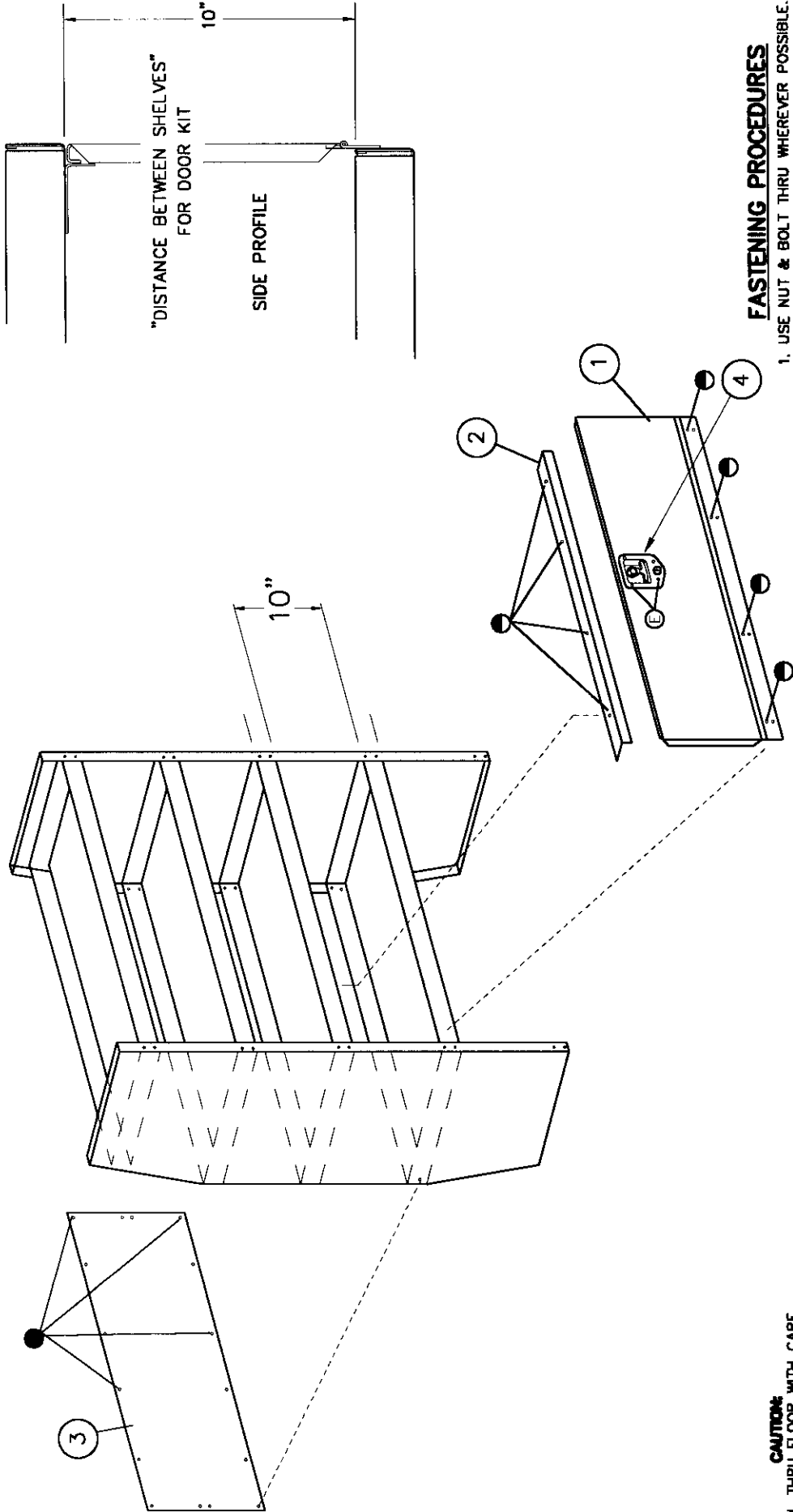
ADRIAN STEEL CO.
908 JAMES STREET
ADRIAN, MI 49221
517/265-6194

LOCKING DOOR KIT
WITH BACK
#50/30-32

DWG BY: **BDS** EGN# **6071** DATE **6/6/02** CHK BY **SM** PACKAGE # **ISS: A**
PACKAGE WEIGHT: **12.03 #** REF **16576** HCG# **00** VCG# **00**

ITEM	PART NO.	DESCRIPTION	QTY.
1	16577	DOOR ASSEMBLY (32")	1
2	16581	DOOR STOP 31"	1
3	BP1232	BACK PANEL - 32" DOOR KIT	1
4	21000	LOCKING T HNDL W/KEY ASCO	1
BAG00032-0 FAS FOR MISC DR KITS			1
CRT00001-0 CARTON			1

PLEASE REFER TO THE INTERIOR INSTALLATION SHEET FOR CORRECT SHELF HEIGHT BEFORE ASSEMBLY.



FASTENING PROCEDURES

1. USE NUT & BOLT THRU WHEREVER POSSIBLE.
2. USE PLUSNUTS FOR BLIND FASTENING.
3. USE SHEET METAL SCREWS IN SHEAR ONLY.

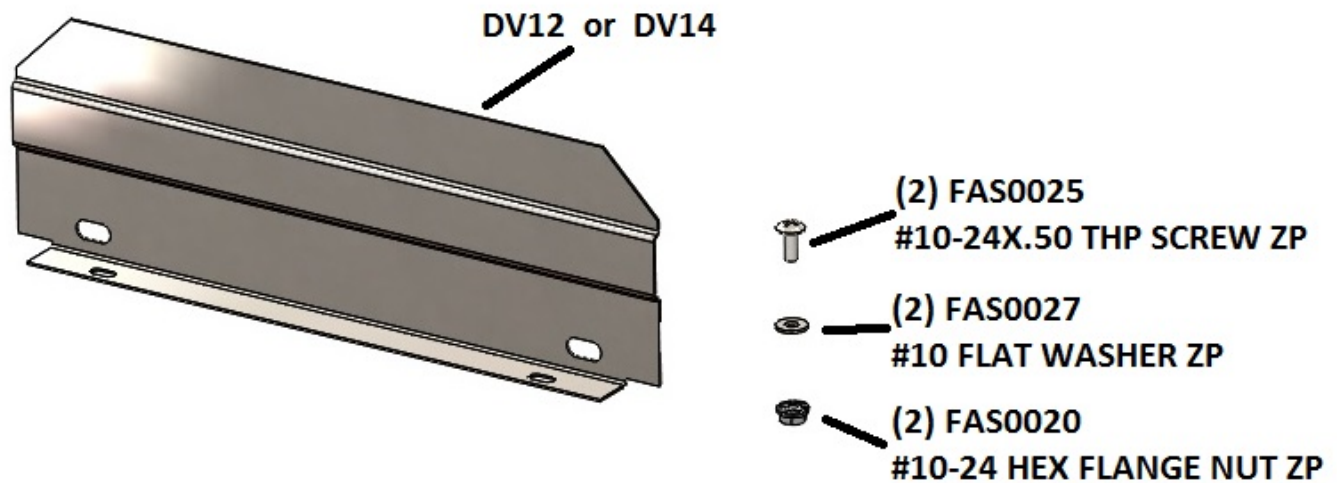
CAUTION:
DRILL THRU FLOOR WITH CARE
WATCH FOR GAS TANK, CONTROL
LINES, & ELECTRICAL WIRING.

Introduction / Comments:

DV12 / DV14 Slip-In / Bolt In Divider Install Instructions

Note:

It is advised that all fasteners used in this assembly and installation should be checked for tightness at the following intervals: @ 2-weeks and again @ 6-weeks of operation. This preventive maintenance step must be completed to ensure your Product gives you long service life.



DV12 / DV14

- PRECAUTIONS -



CAUTION



**THE USE OF AIR IMPACT TOOLS CAN
OVER-TORQUE FASTENERS AND
CAUSE FASTENER FAILURE!**



CAUTION



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



DANGER



**INSPECT FOR FUEL TANK, FUEL LINES, BRAKE LINES, HIGH
VOLTAGE BATTERIES AND ELECTRICAL LINES PRIOR TO
DRILLING TO AVOID DAMAGING CRITICAL VEHICLE SYSTEMS
OR INJURY TO INSTALLER DURING INSTALLATION PROCESS!**



CAUTION



**TO AVOID DAMAGING THE VEHICLE ALWAYS USE DRILL
STOPS WHEN DRILLING ANY INSTALLATION HOLES!
ADRIAN AVAILABLE PART #'S 31121-0 (3/8" X 1/2"
DEEP), 31121-0 (1/2" X 1/2" DEEP)**



- IMPORTANT WARRANTY REQUIREMENTS -

1. SUBSTITUTING ADRIAN STEEL SPECIFIED FASTENERS FOR ASSEMBLY AND/OR INSTALLATION WILL VOID YOUR PRODUCT WARRANTY.
2. ALL HOLES DRILLED INTO VEHICLE SHOULD HAVE THE RAW METAL EDGES SEALED WITH A SELF-ETCHING PRIMER TO RESIST CORROSION AND POTENTIAL FASTENER POINT FAILURE.
3. ALL FASTENERS USED IN THE INSTALLATION OF THIS PRODUCT SHOULD BE TIGHTENED TO THE TORQUE(S) SPECIFIED IN THESE INSTRUCTIONS.
4. THESE INSTRUCTIONS SHOULD BE KEPT WITH THE VEHICLE.

THE BASIC TOOLS NEEDED FOR MOST INSTALLATIONS



DRILL



DRILL BIT WITH
STOP



RATCHET, SOCKETS
AND/OR WRENCHES



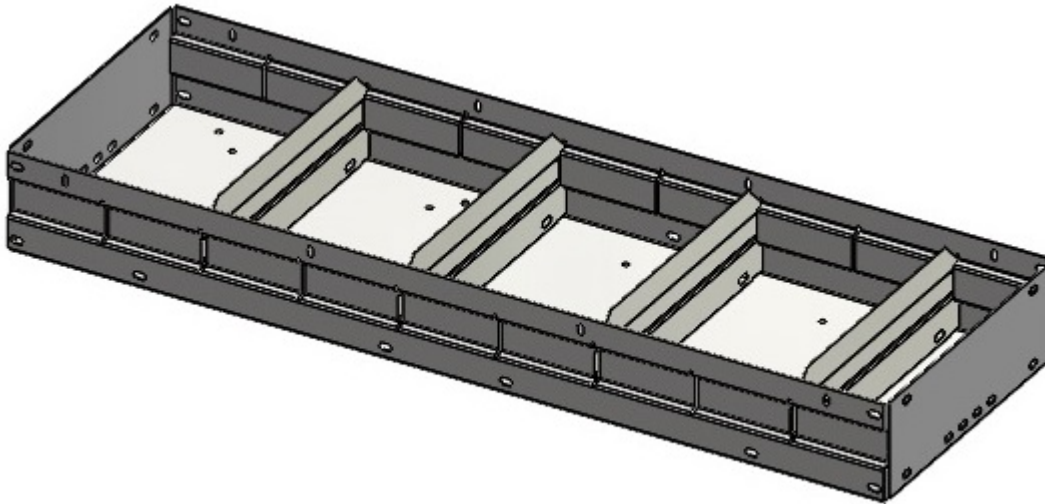
SCREWDRIVERS



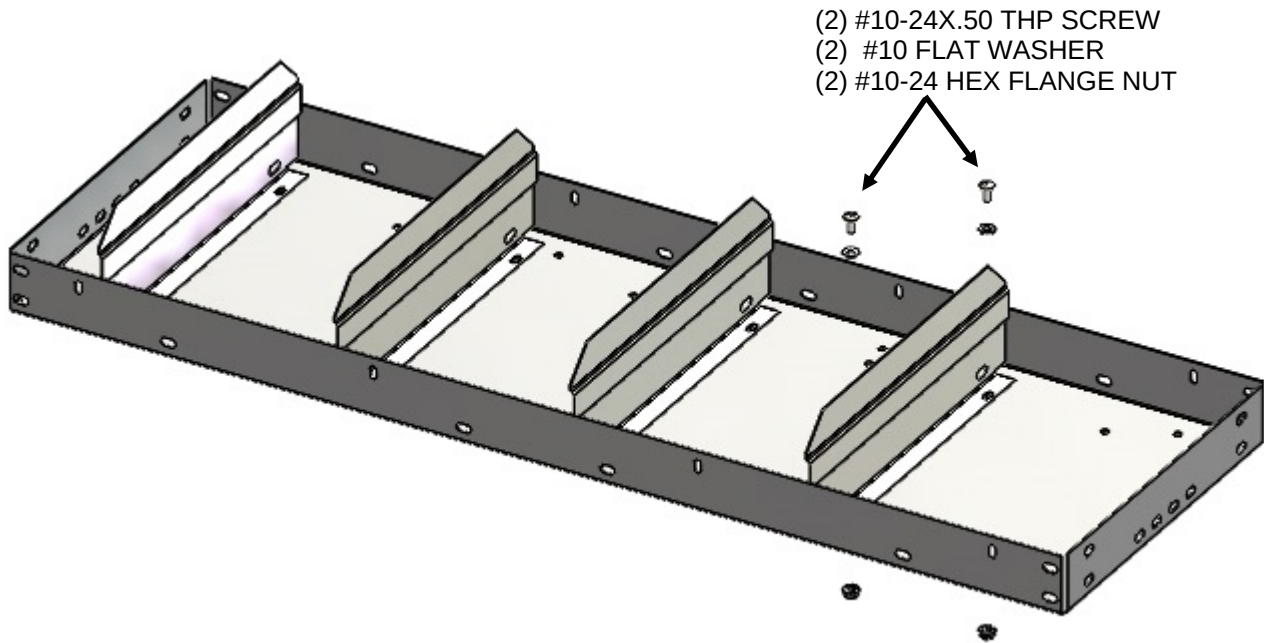
MEASURING TAPE

ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.

Step 01 For Shelves with Embossed Sides, Slip Dividers into Shelf Embossments Evenly Spaced in Shelf as shown, unless otherwise specified by Customer. The Number of Dividers may vary per customer.



Step 02 For Shelves where the Dividers will need to be Bolted in, Use (2) #10-24x.50 THP Screw, Flat Washer, and Hex Flange Nut to bolt each divider to shelf
Evenly Spaced as shown unless otherwise specified by customer.
The number of dividers may vary per customer



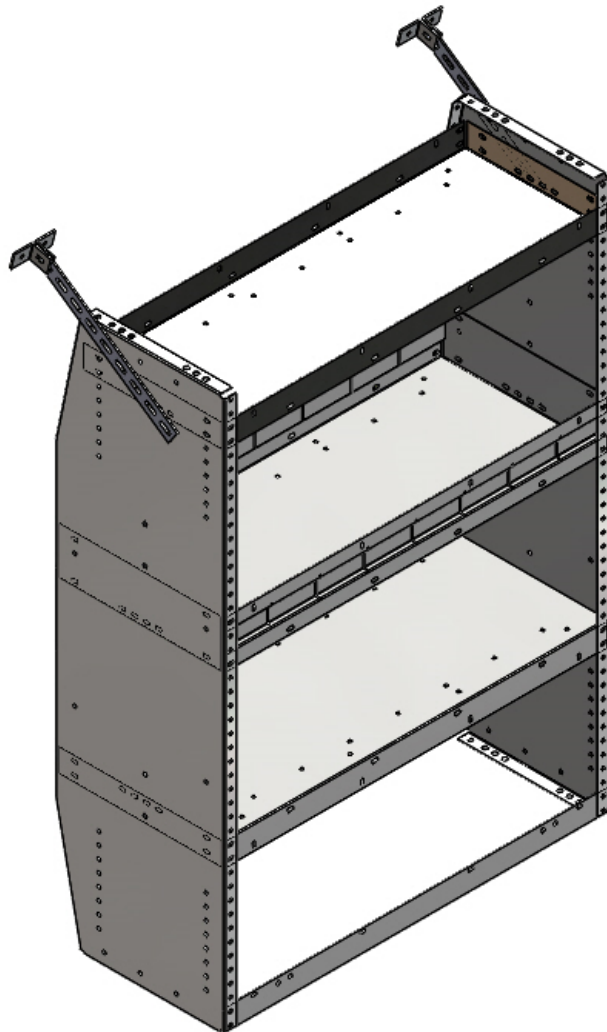
**DOUBLE CHECK ALL FASTENERS LOCATIONS TO BE SURE THAT ALL
FASTENERS ARE TIGHTENED TO SPECIFICATIONS.
YOUR INSTALLATION IS NOW COMPLETE!
STOW THIS COPY IN THE VEHICLE FOR FUTURE REFERENCES!**

Introduction / Comments:

Note:

It is advised that all fasteners used in this assembly and installation should be checked for tightness at the following intervals: @ 2-weeks and again @ 6-weeks of operation. This preventive maintenance step must be completed to ensure your Product gives you long service life.

ITEM NO.	PART NUMBER	DESCRIPTION	29682-0/QTY.
1	EP1446	END PANEL, KD, 46"	2
2	FR32	FLOOR RAIL 32"	1
3	SF21232	SHELF	1
4	SF21432	SHELF	1
5	SF41432	SHELF HD-KD 4X14X32	1
6	HDW29682-0	HARDWARE KIT FOR 29682-0	1



29682-0

- PRECAUTIONS -



CAUTION



**THE USE OF AIR IMPACT TOOLS CAN
OVER-TORQUE FASTENERS AND
CAUSE FASTENER FAILURE!**



CAUTION



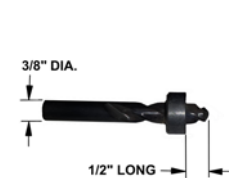
**ALL INSTALLATION HOLES SHOULD BE SEALED
WITH SILICON OR BUTYL SEALANT TO PREVENT
EXHAUST FUMES FROM ENTERING THE VEHICLE!**



DANGER



**INSPECT FOR FUEL TANK, FUEL LINES, BRAKE LINES, HIGH
VOLTAGE BATTERIES AND ELECTRICAL LINES PRIOR TO
DRILLING TO AVOID DAMAGING CRITICAL VEHICLE SYSTEMS
OR INJURY TO INSTALLER DURING INSTALLATION PROCESS!**



CAUTION

**TO AVOID DAMAGING THE VEHICLE ALWAYS USE DRILL
STOPS WHEN DRILLING ANY INSTALLATION HOLES!
ADRIAN AVAILABLE PART #'S 31121-0 (3/8" X 1/2"
DEEP), 31121-0 (1/2" X 1/2" DEEP)**



- IMPORTANT WARRANTY REQUIREMENTS -

1. SUBSTITUTING ADRIAN STEEL SPECIFIED FASTENERS FOR ASSEMBLY AND/OR INSTALLATION WILL VOID YOUR PRODUCT WARRANTY.
2. ALL HOLES DRILLED INTO VEHICLE SHOULD HAVE THE RAW METAL EDGES SEALED WITH A SELF-ETCHING PRIMER TO RESIST CORROSION AND POTENTIAL FASTENER POINT FAILURE.
3. ALL FASTENERS USED IN THE INSTALLATION OF THIS PRODUCT SHOULD BE TIGHTENED TO THE TORQUE(S) SPECIFIED IN THESE INSTRUCTIONS.
4. THESE INSTRUCTIONS SHOULD BE KEPT WITH THE VEHICLE.

THE BASIC TOOLS NEEDED FOR MOST INSTALLATIONS



DRILL



DRILL BIT WITH
STOP



RATCHET, SOCKETS
AND/OR WRENCHES



SCREWDRIVERS



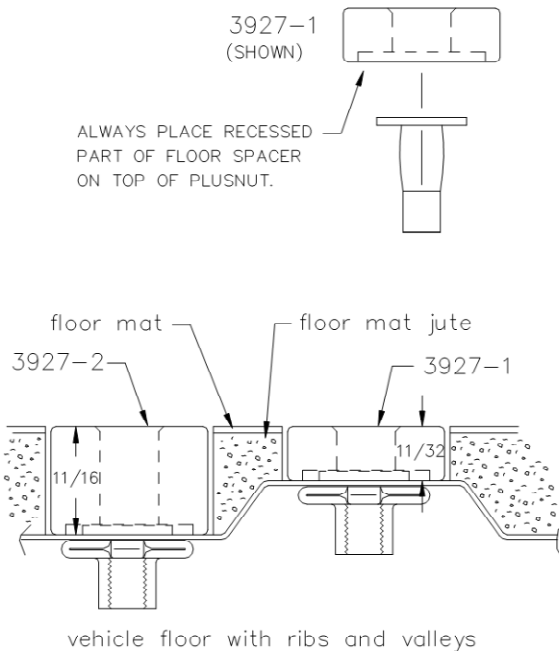
MEASURING TAPE

ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.

If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting location. Position the product to be installed into the vehicle and once you are satisfied with the mounting locations, mark the mounting locations. Using a 1-3/16" diameter carpet cutter (P/N: 31183-0). Select the appropriate floor spacers as shown in the illustration. Set those aside for use later into the installation process. Using the correct drill bit size for the selected plusnut, drill the mounting holes in the vehicle sheet metal to prepare for installing the plusnuts.

If you are thru-bolting at any of the locations simply drill a hole that is 1/16" larger than the bolt size(s) for those locations.

Once you have drilled the holes into the vehicle, the raw metal edges should be sealed using a self-etching primer to resist corrosion and potential fastener point failure.



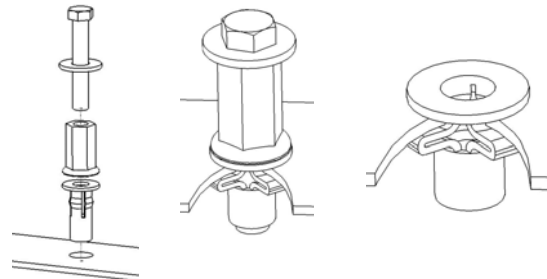
A PLUSNUT (RIVNUT) SETTING TOOL IS REQUIRED FOR PLUSNUT (RIVNUT) INSTALLATION . PLUS NUT SETTING TOOL CAN BE ORDERED THROUGH ADRIAN STEEL, OR USE AN AIR POWERED PLUSNUT SETTING GUN.

1/4-20UNC Plusnut (FAS0052) Use 3/8" dia. drill w/stop

FAS0080 SCREW, HXHD, 1/4-20UNCx2.00", G8
FAS0067 WASHER, FLAT, 1/4"ID
22200-0 PLUSNUT TOOL

5/16-18UNC Plusnut (FAS0091) Use 1/2" dia. drill w/stop

FAS0095 SCREW, HXHD, 5/16-18UNCx2.00", G8
FAS0086 WASHER, FLAT, 5/16"ID
22200-0 PLUSNUT TOOL

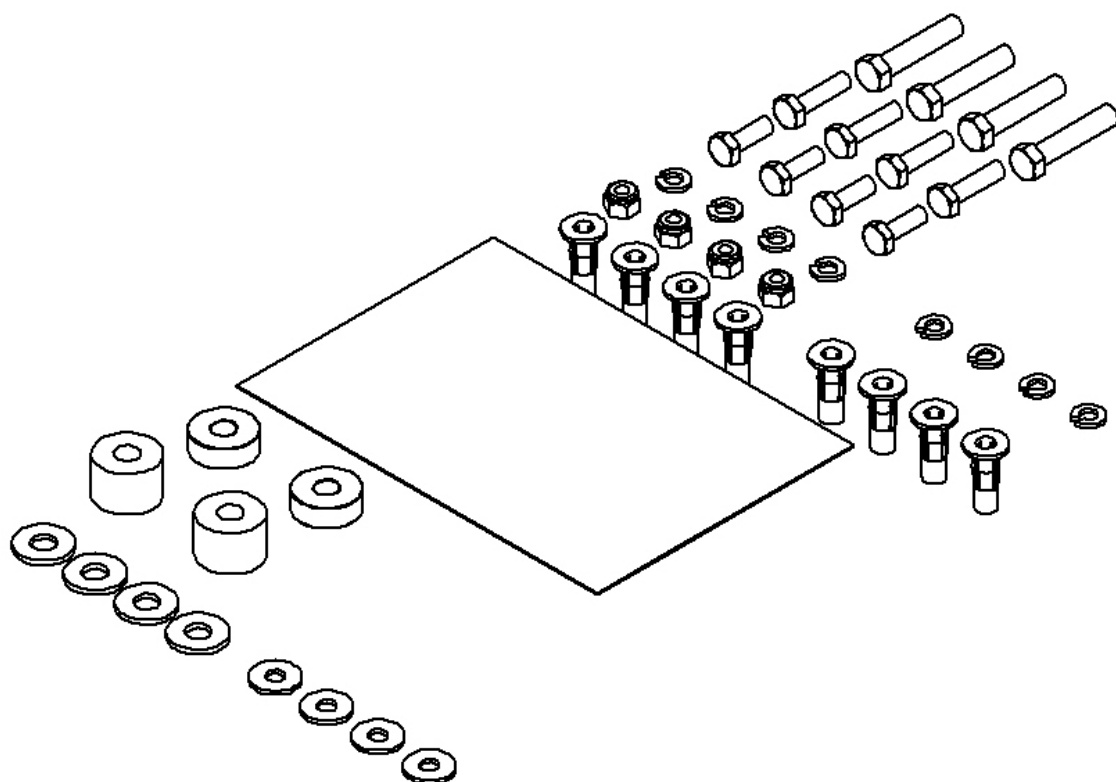


Place barrel of the plusnut body in sheet metal thru hole until flange is flush with sheet metal.

Using a 9/16" combination wrench of plusnut tool body and a second hand wrench, ratchet, or air tool, rotate the hex bolt head CW to draw plus nut flanges up (set the plusnut).

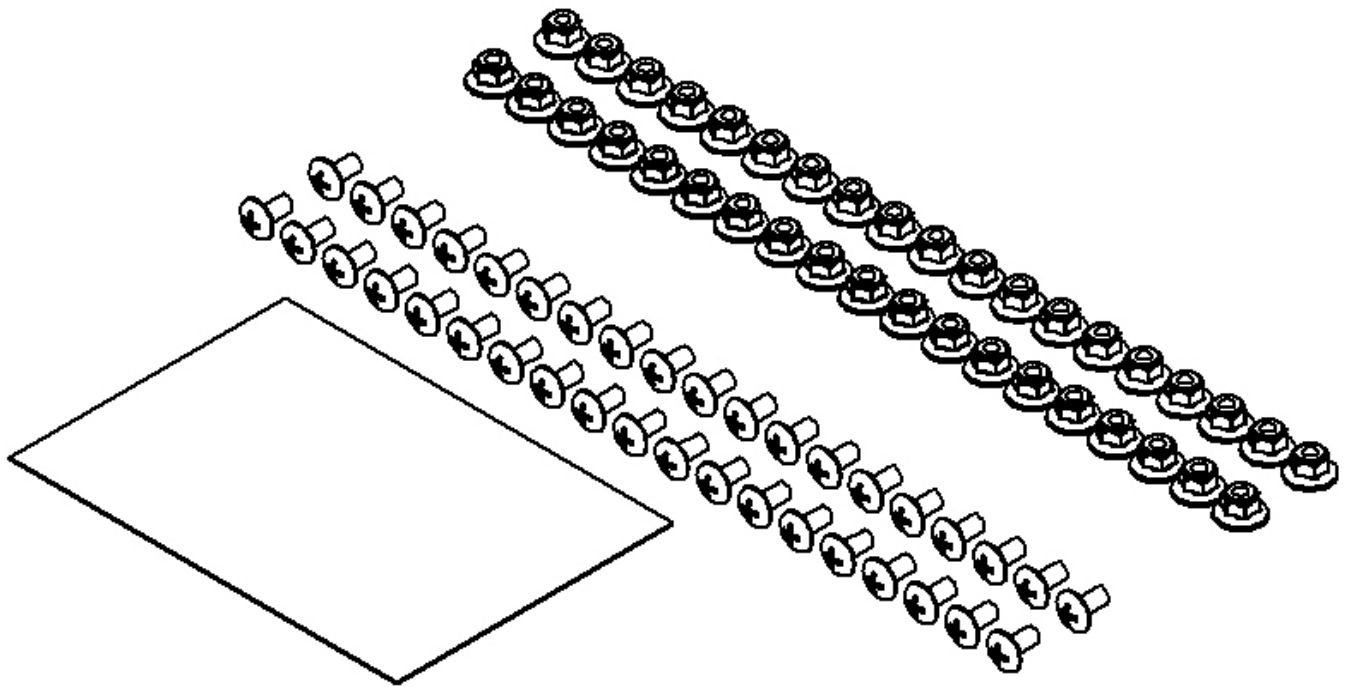
**Installation and/or Assembly Fasteners
BAGINSTL-B**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0507-A	5" x 7" 3MIL AUTOBAG	1
2	FAS0052	Plusnut, 1/4	8
3	FAS0058	Nut, Nylon Insert Lock, 1/4-20	4
4	FAS0060	Washer, Lock, Split, 1/4	8
5	FAS0063	Screw, Hex Hd, 1/4-20x0.75 Zn Plate, Grade 5	4
6	FAS0067	Washer, Flat, 1/4	4
7	FAS0078	Screw, Hex Hd, 1/4-20x1.00 Zn Plate, Grade 8	4
8	03927-1	Floor Spacer Short	2
9	03927-2	Tall Floor Spacer	2
10	FAS0086	WASHER,FLAT USS 5/16 ZP	4
11	FAS0092	Screw, Hex Hd, 5/16-18x1.50 Zn Plate, G8	4

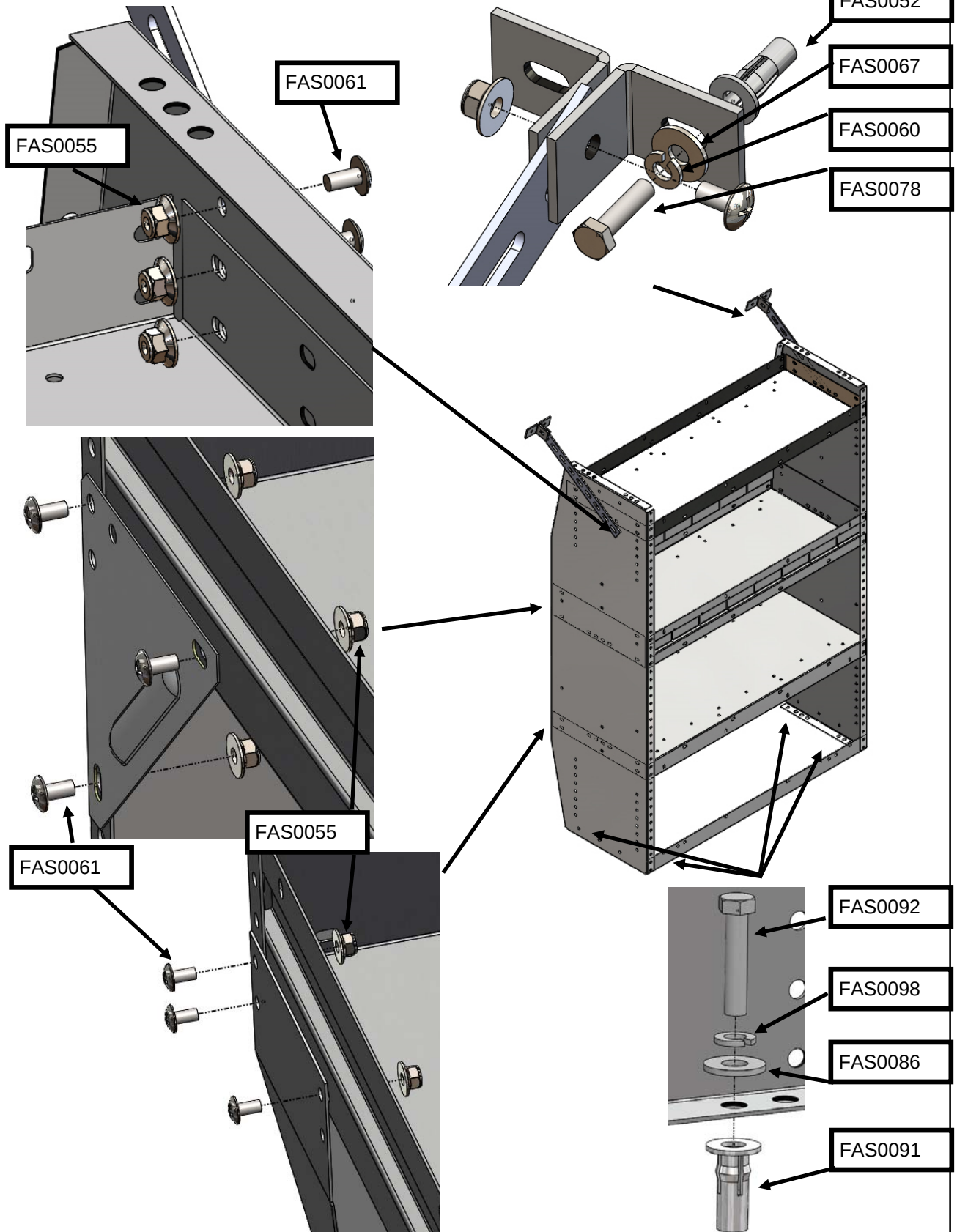


Installation and/or Assembly Fasteners
BAG00018-0

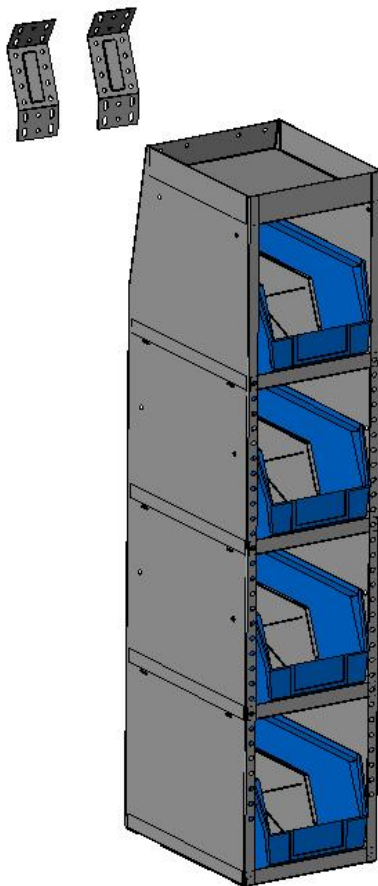
ITEM NO.	PART NUMBER	DESCRIPTION	BAG00018-0/QTY.
1	BAG0507-A	5" x 7" 3MIL AUTOBAG	1
2	FAS0061	Screw, Truss Hd. Ph, 1/4-20x0.50	38
3	FAS0055	Nut, Hex Flange, Nylock 1/4-20	38



Step 01 ASSEMBLE AND INSTALL SHELVING USING THE IMAGE BELOW



SHELF/RACK WITH BINS INSTALLATION INSTRUCTIONS



**33WB SHELF/RACK WITH BINS
ALSO 33W (WITHOUT BINS)**

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 ENVIROMENT!



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!

Welded Shelf Unit Assembly/Install

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!



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 (<i>with stop</i>)
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.

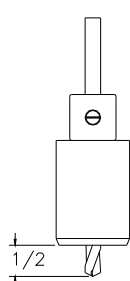
It is recommended that a drilling template be used to ensure an accurate placement of components is achieved for this installation.

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

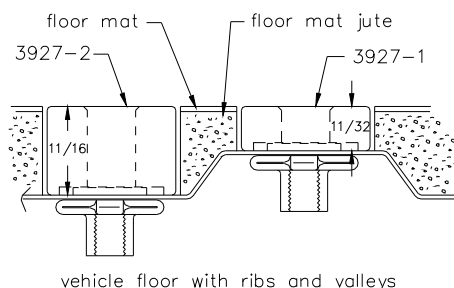
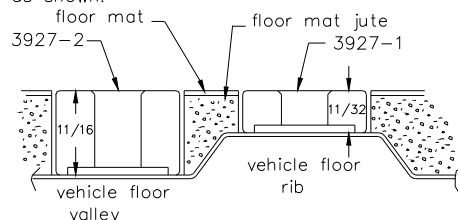
Spacer Use and Installation

3927-1 (SHOWN)

ALWAYS PLACE RECESSED PART OF FLOOR SPACER ON TOP OF PLUSNUT.



Placing the properly sized spacer on top of the vehicle floor pan will make your Adrian interior level, square, and sound. The view below shows the proper sized spacer for the different heights of the vehicle floor. Make sure to place the spacers with the plusnut relief surface down as shown.



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.

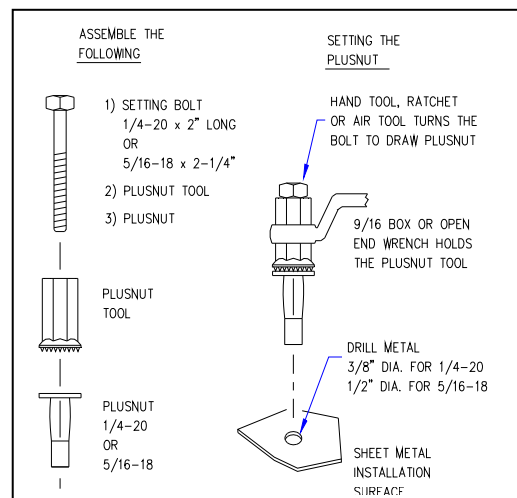
STOP

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.



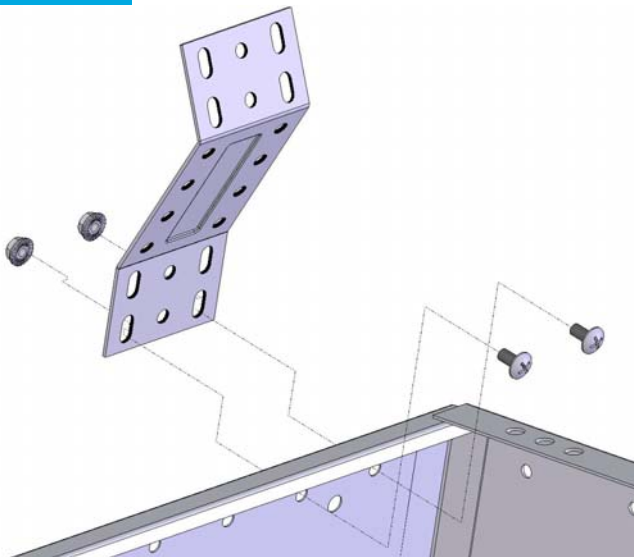
STEP - 01

MOUNT BRACKET ONTO SHELF UNIT

 08308-1 MB111 MOUNT BRKT WO/FAS (2) REQ'D.	 FAS0061 SCREW,THP 1/4-20X.50 TORQUE 8 ft. lbs. (4) REQ'D.	 FAS0055 NUT,HEX FLANGE 1/4-20 (4) REQ'D
--	---	---

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

FASTENERS NEEDED FOR FLOOR

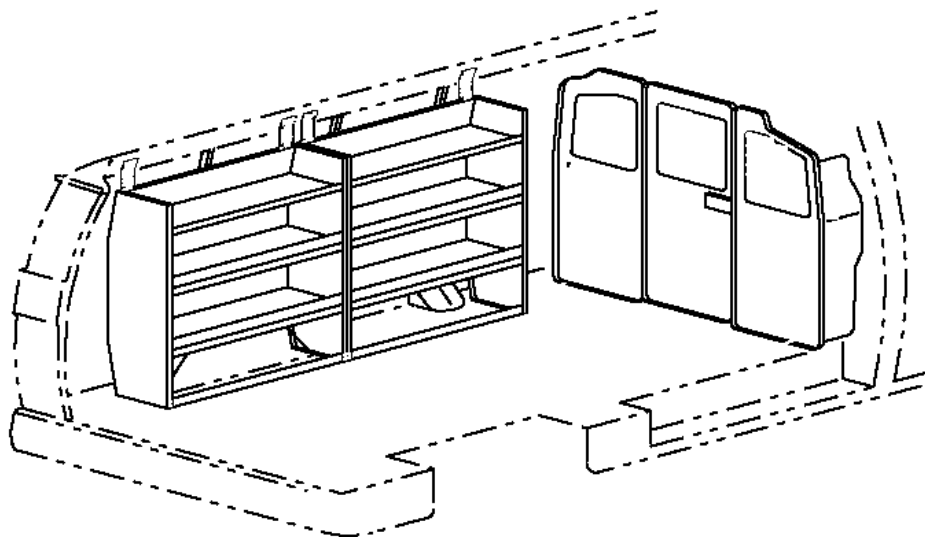
	
03927-1 11/32 C/F 1006 SPACER	03927-2 11/16 C/F 1006 SPACER

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. (Picture for reference only)

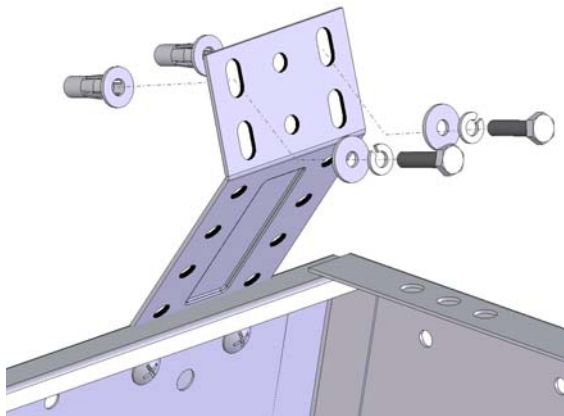
Welded Shelf Unit Assembly/Install



STEP – 02 cont

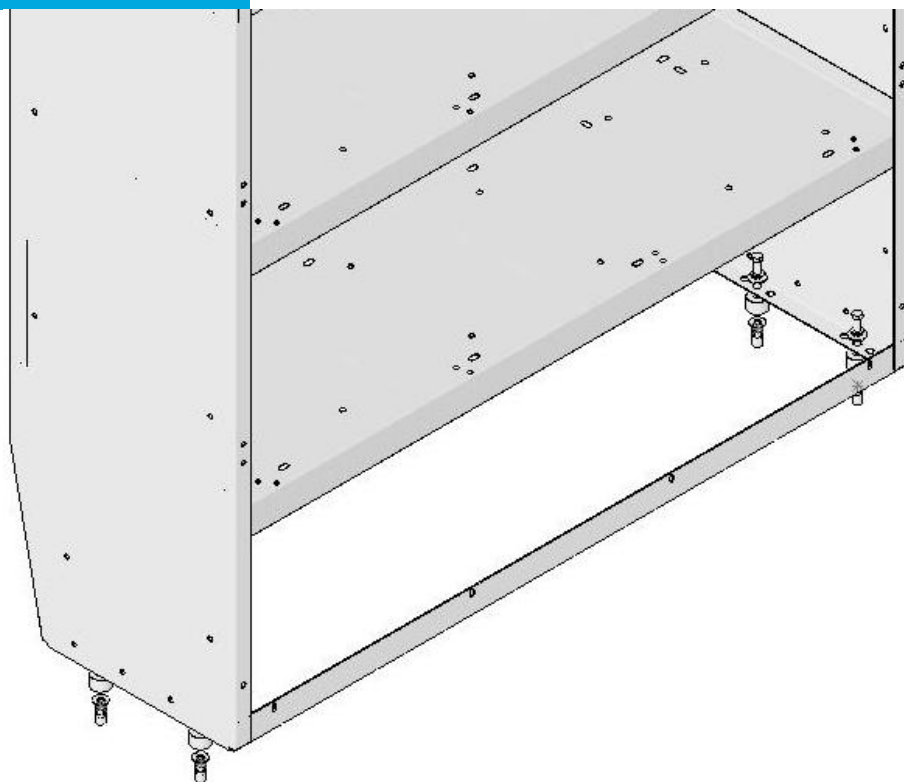
MOUNTING SHELF UNIT INTO VEHICLE

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.

Welded Shelf Unit Assembly/Install



STEP – 3

WHEN JOINING TWO SHELF UNITS TOGETHER FOLLOW THE INSTRUCTIONS BELOW. (Picture for reference only)

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

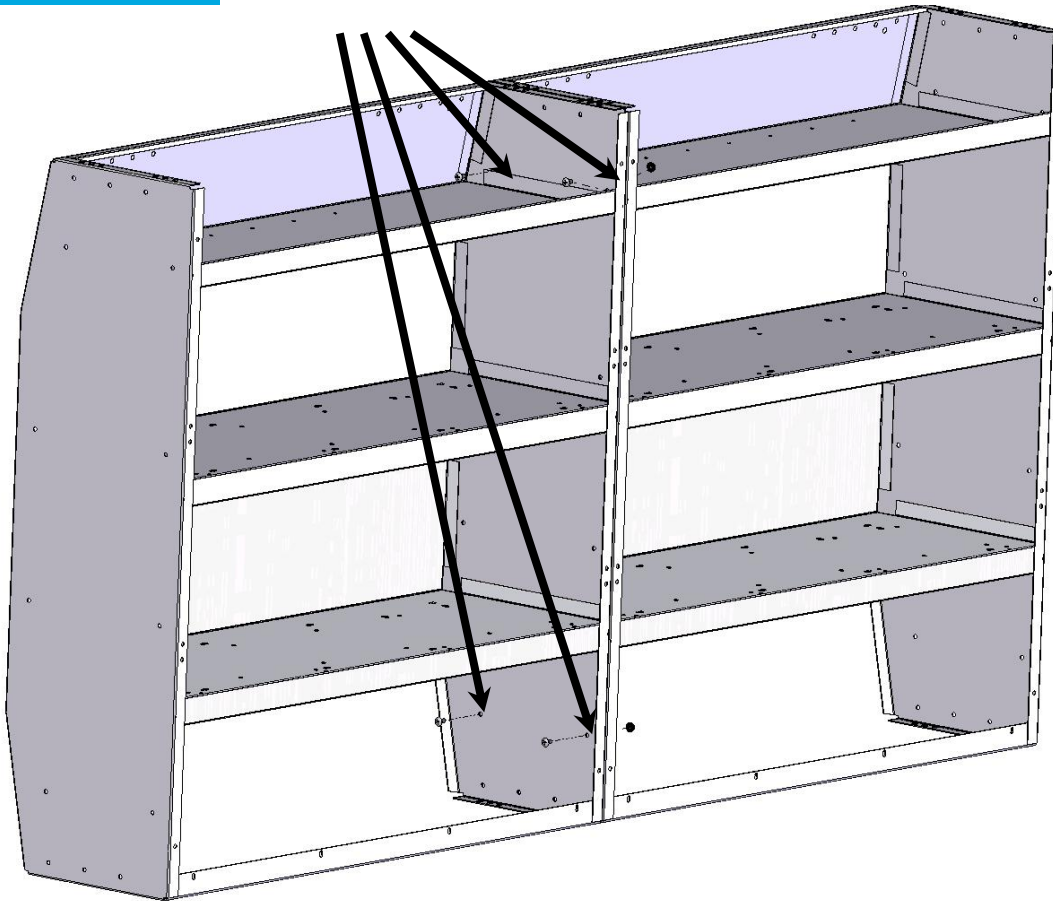


FAS0061
SCREW, THP 1/4-20X.50 P/G5
TORQUE 8 ft. lbs.
(4) REQ'D.



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

Welded Shelf Unit Assembly/Install



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



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