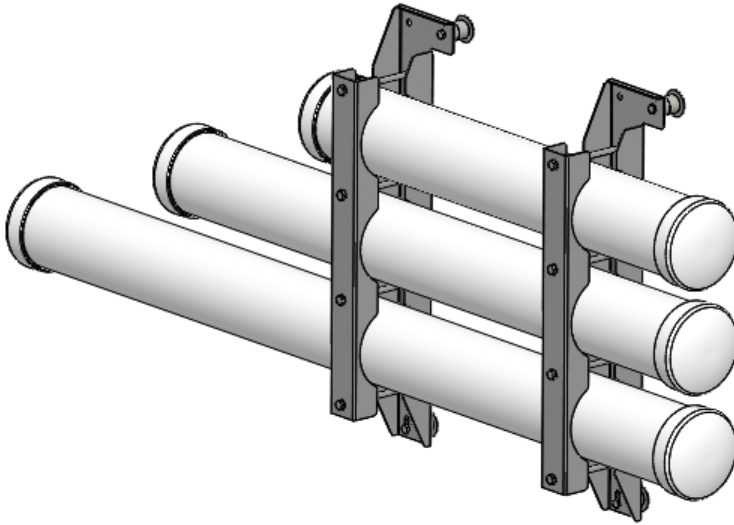


TUBE HOLDER KIT



PRODUCT WEIGHT
32 LBS

WIDTH x DEPTH x HEIGHT
56" x 8" x 24"

CAPACITY
25 LBS PER TUBE

COLOR

GRAY

CATALOG NUMBER

70-5

PRODUCT FEATURES

This tube holder kit is intended to attach to your installed partition, but can be installed to other product in your interior. Position assembly in the desired location and attach per the installation instructions.

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



CATALOG NUMBER 70-5

PRODUCT APPLICATION

This product is designed to secure customer product in PVC tubing within the cargo area.

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

CATALOG NUMBER	DESCRIPTION
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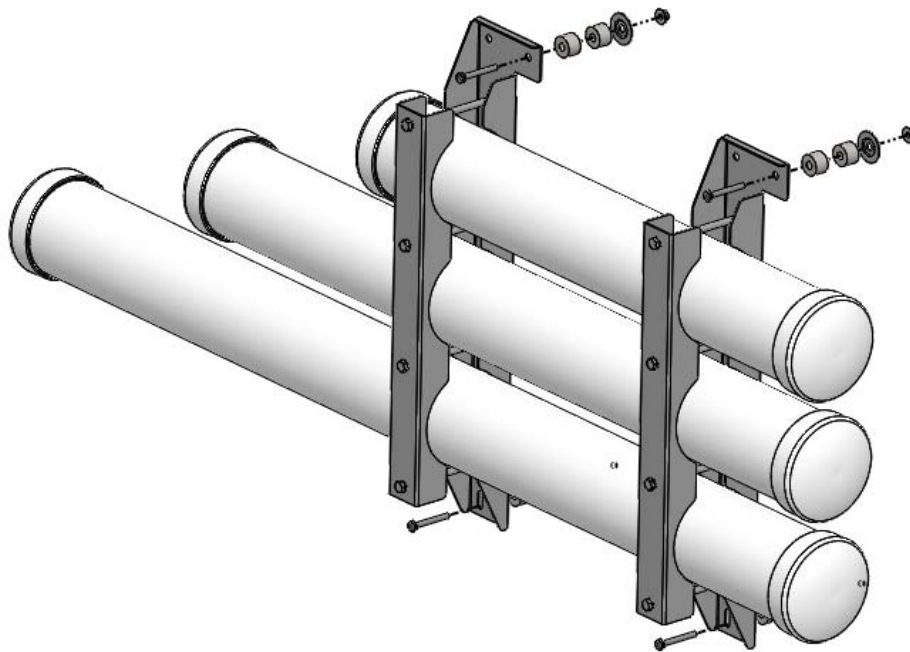
SPECIAL APPLICATION NOTES



ADRIAN STEEL®

Cargo Management Solutions for Commercial Vehicles

Assembly/Installation Instructions and Owners Manual



70-5

TUBE HOLDER KIT

- PRECAUTIONS -



 **CAUTION** 
**THE USE 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 IN-
STALLATION HOLES!**



- 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



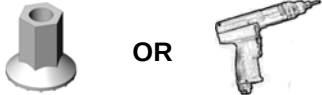
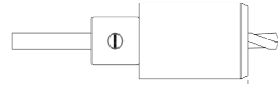
MEASURING TAPE

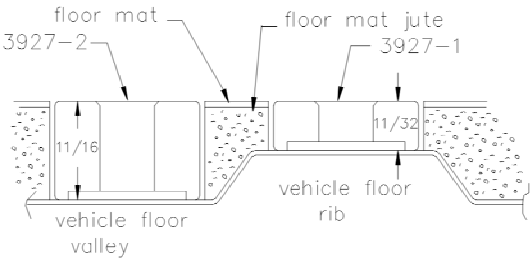
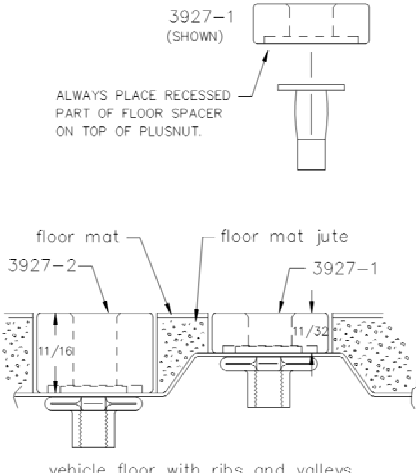
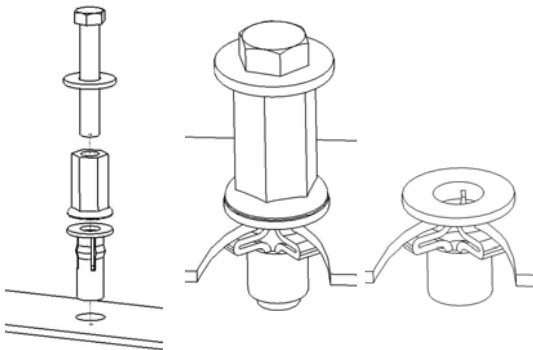
ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.

Assembly/Installation Instructions and Owners Manual



WHEN INSTALLING PLUSNUTS MAKE SURE YOU USE THE CORRECT DRILL BIT WITH A STOP!

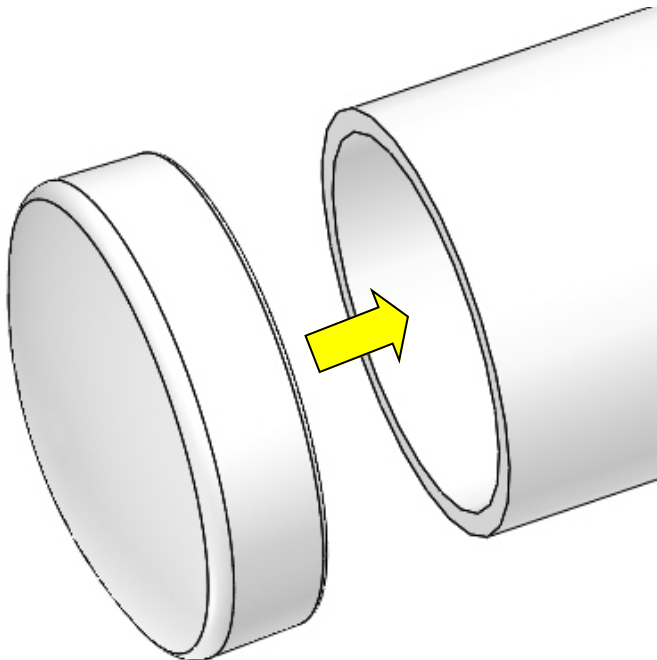
PLUSNUT SIZE	DRILL BIT SIZE
1/4"-20 PLUSNUT, FAS0052	USE A 3/8" DIAMETER DRILL BIT WITH A STOP.
5/16"-18 PLUSNUT, FAS0091	USE A 1/2" DIAMETER DRILL BIT WITH A STOP.
 NOTE: A PLUSNUT SETTING TOOL IS REQUIRED FOR PLUSNUT INSTALLATION AND IS NOT SUPPLIED WITH THIS KIT. ORDER PLUSNUT TOOLS FROM ADRIAN STEEL (P.N. 22200-0) OR USE AN AIR POWERED PLUSNUT SETTING GUN.	
NOTE: If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting locations using a 1-3/16" carpet cutter.	1-3/16" DIAMETER CARPET CUTTER P.N. 31183-0. 

	Step 01 Optional If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting locations. (if not, skip to STEP 02) 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. Select the appropriate floor spacers as shown in the illustration to the left. Set those aside for use later into the installation process. Once you have prepared the carpet/floor mat for
	Step 02 Prepare Mounting Locations Using a drill and drill bit (see table at top of page for correct size) 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.
	Step 03 Setting Plusnuts Use an Air Powered Plusnut Setting Gun to "set the plusnut" or if installing manually with hand tools, assembly the following. 1/4"-20UNC Plusnut (FAS0052) FAS0080 SCREW, HXHD, 1/4"-20UNCx2.00, G8 FAS0067 WASHER, FLAT, 1/4"ID 22200-0 PLUSNUT TOOL 5/16"-18UNC Plusnut (FAS0091) 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). Remove hex bolt, washer, and plusnut. Inspect installation.

PARTS YOU WILL USE FOR STEP 01	51702, 51703 & 51704 PVC TUBES (1) EACH	08989-0 PVC 4" END CAP #40 (3) EACH	34015-0 PVC PRIMER/SOLV 4 oz	34016-0 PVC CEMENT 4 oz
				

Instructions for Step 01

GLUE (3) THREE END CAPS TO TUBES



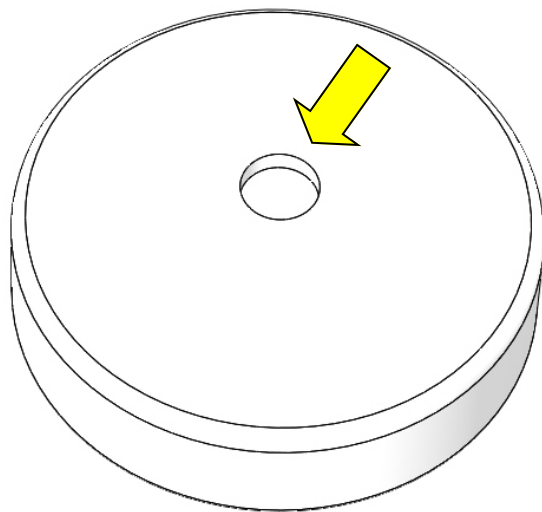
FOLLOW THE DIRECTIONS ON THE PRIMER AND THE CEMENT CONTAINERS AND GLUE ONLY (1) ONE END CAP TO EACH PVC TUBE.

WARNING!
DO NOT GLUE
END CAPS TO
BOTH ENDS OF
THE TUBE!
WARNING!

PARTS YOU WILL USE FOR STEP 02	08989-0 PVC 4" END CAP #40 (3) EACH	3/4" HOLE SAW		
				

Instructions for Step 02

DRILL 3/4" DIAMETER HOLES INTO (3) THREE END CAPS

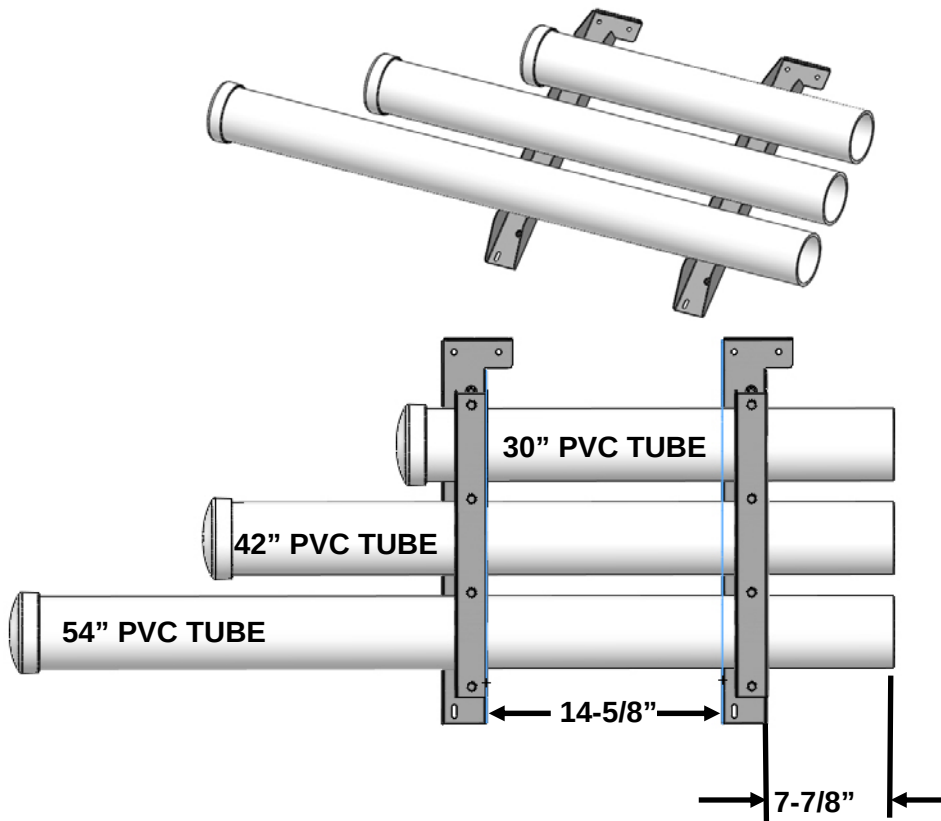


DRILL (1) ONE 3/4" HOLE INTO THE CENTER OF EACH OF THE THREE REMAINING END CAPS AS SHOWN.

PARTS YOU WILL USE FOR STEP 03	PVC TUBE ASSEMBLIES FROM PREVIOUS STEP	51911-G TUBE HOLDER BASE ASSM. (2) EACH.	MEASURING TAPE	
				

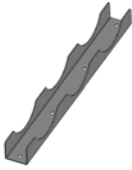
Instructions for Step 03

POSITION BASES AND TUBES FOR ASSEMBLY



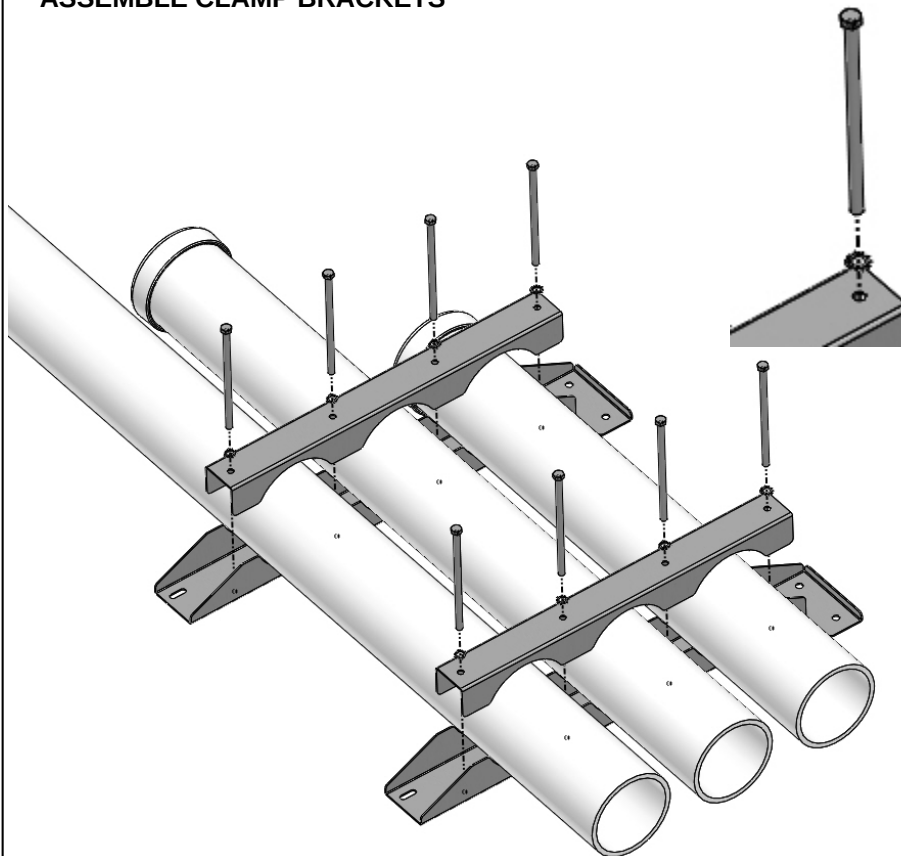
POSITION BASES FLAT ON WORKSURFACE WITH TABS TO UPPER RIGHT AS SHOWN WITH 14-5/8" BETWEEN PARTS.

POSITION TUBES WITH THE OPEN ENDS TO THE RIGHT WITH THE OPEN ENDS 7-7/8" FROM THE BASE FLANGE AS SHOWN.

PARTS YOU WILL USE FOR STEP 04	SUB-ASSEMBLY FROM PREVIOUS STEP.	51912-G TUBE HOLDER CLAMP BRACKET (2) EACH	FAS0276 5/16x 6" HH SCREW (8) EACH	FAS0085 5/16" LOCK WASHER (8) EACH
				
	DRILL/DRIVER 	1/2" SOCKET 		

Instructions for Step 04

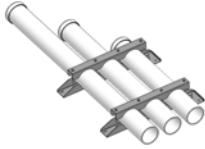
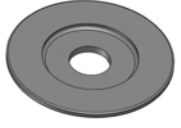
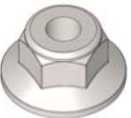
ASSEMBLE CLAMP BRACKETS



PLACE CLAMP BRACKETS OVER TUBING ON SUB-ASSEMBLY TO LINE UP WITH RIV-NUTS IN BASES.

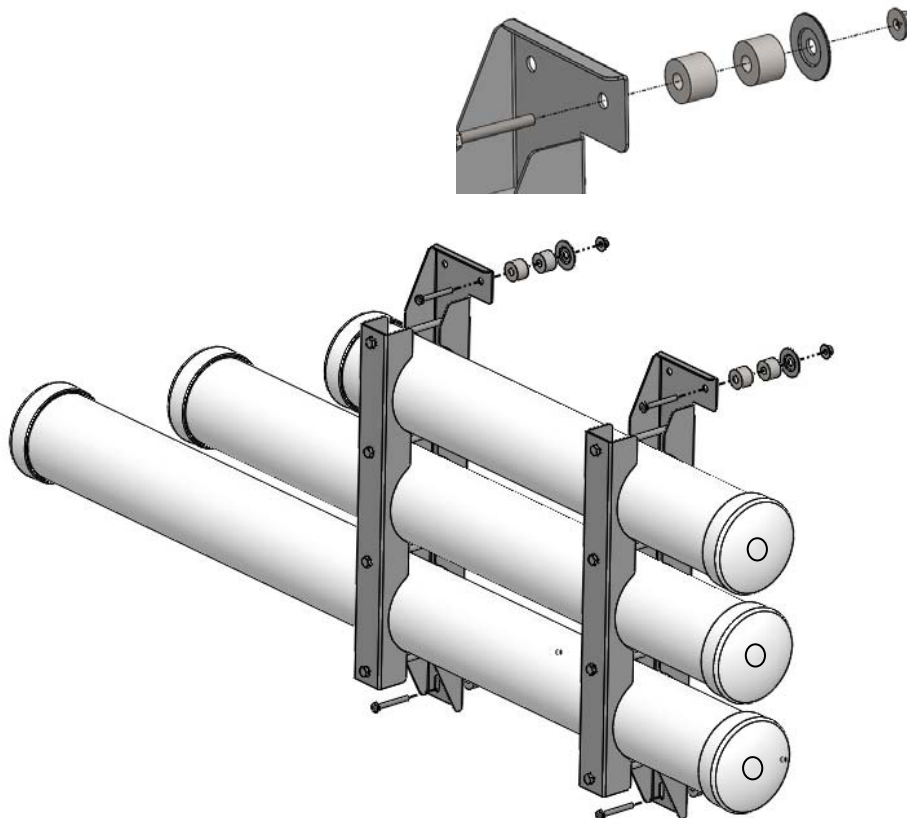
FASTEN CLAMP BRACKETS USING LOCK WASHER AND HEX BOLTS (4 PER CLAMP BRACKET) AND EVENLY TIGHTEN TO SEAT THE BRACKETS AGAINST THE TUBING.

DO NOT OVER-TORQUE FASTENERS!

PARTS YOU WILL USE FOR STEP 05	SUB-ASSEMBLY FROM PREVIOUS STEP. 	03927-2 SPACER (8) EACH 	FAS0080 1/4 x 2" HH SCREW (4) EACH 	FAS0833 CUP WASHER (4) EACH 
	FAS0055 1/4" FLANGE LOCK NUT (4) EACH 	DRILL/DRIVER & 7/16" SOCKET 	DRILLED END CAPS FROM STEP #02 (3) EACH 	7/16" BOX WRENCH 

Instructions for Step 05

INSTALL ASSEMBLY IN VEHICLE



POSITION ASSEMBLY IN DESIRED LOCATION (OR REFER TO PDS PACKAGE DRAWING FOR LOCATION DETAILS). FASTEN ASSEMBLY TO PARTITION, CABINET, END PANEL OR OTHER LOCATION USING THE ABOVE LISTED FASTENERS.

IF ATTACHING TO A PARTITION THE CUP WASHER AND FLANGE NUTS SHOULD BE ON THE CAB SIDE OF THE PARTITION.

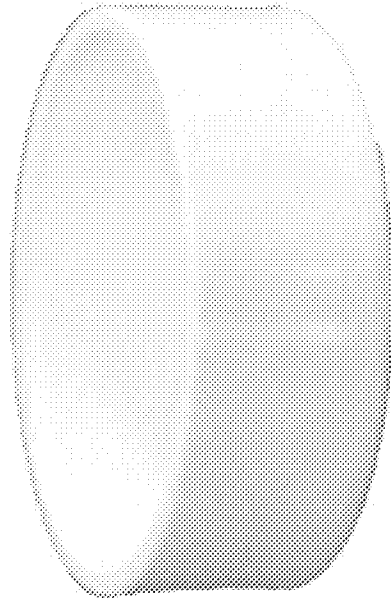
APPLY DRILLED END CAPS TO THE OPEN ENDS AS SHOWN.

WARNING!
DO-NOT-GLUE THE DRILLED END CAPS!
WARNING!

YOUR ASSEMBLY IS NOW COMPLETE.

PART NUMBER

08989-0

ITEM DESCRIPTION: 4" PVC END CAP SCH 40

MANUFACTURER: ANY
MANUFACTURERS PART NUMBER: ANY

SPECIFICATIONS: SCHEDULE 40
WHITE
FITS 4" PVC PIPE

SPECIAL NOTES: N/A

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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906 JAMES STREET
ADRIAN, MI 49221
517-265-6194

WWW.ADRIANSTEEL.COM

**CAUTION**

WHEN INSTALLING EQUIPMENT IN OR ON
VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!

DRAWN BY
BTS

DATE DRAWN
06/13/11

ECN NUMBER
13955

ECN DATE
06/13/11

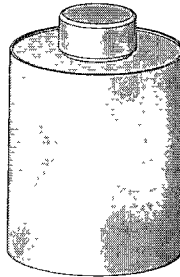
PART WEIGHT
0.00 LBS.

REV. LEVEL
3.0

PART NUMBER

08989-0

PART NUMBER

34015-0**ITEM DESCRIPTION: CLEAR PVC CEMENT, 4oz****MANUFACTURER: HERCULES****MANUFACTURERS PART NUMBER: N/A**

SPECIFICATIONS: For PVC Types I & II
DW & DWV/SW Pipe and Fittings
4 FL. OZ. (118 ml)

SPECIAL NOTES: NONE**SUPPLIED BY: THIS ITEM IS ADRIAN SUPPLIED!****PURCHASED PRODUCT DATA SHEET (PPDS)**

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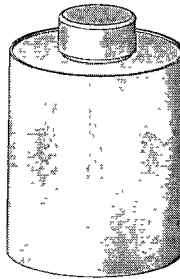
**WHEN INSTALLING EQUIPMENT IN OR ON
VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!**

DRAWN BY
DCS**DATE DRAWN**
04-03-2007**ECN NUMBER**
10132**ECN DATE**
04-03-2007**PART WEIGHT**
0.25 LBS.**REV. LEVEL**
A

PART NUMBER

34015-0

PART NUMBER

34016-0**ITEM DESCRIPTION: PVC PRIMER/SOLVENT, 4oz****MANUFACTURER: HERCULES****MANUFACTURERS PART NUMBER: N/A****SPECIFICATIONS: 4 FL. OZ. (118 ml)****SPECIAL NOTES: NONE****SUPPLIED BY: THIS ITEM IS ADRIAN SUPPLIED!****PURCHASED PRODUCT DATA SHEET (PPDS)**

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WHENEVER POSSIBLE!**

**DRAWN BY
DCS****DATE DRAWN
04-03-2007****ECN NUMBER
10132****ECN DATE
04-03-2007****PART WEIGHT
0.25 LBS.****REV. LEVEL
A**

PART NUMBER

34016-0