



**GROUND/TERM BAR
ASSEMBLY
PRODUCT MANUAL FOR
111B-2240**

RECEIVING INSTRUCTIONS & GENERAL EQUIPMENT INFORMATION

Please Note: For your protection, the following information and the product manual should be read and thoroughly understood before unpacking, installing, or using the equipment.

UNIPOWER, LLC presents all equipment to the delivering carrier securely packed and in perfect condition. Upon acceptance of the package from us, the delivering carrier assumed responsibility for its safe arrival to you. Once you receive the equipment, it is your responsibility to document any damage the carrier may have inflicted, and to file your claim promptly and accurately.

1. PACKAGE INSPECTION

- 1.1** Examine the shipping crate or carton for any visible damage: punctures, dents, and any other signs of possible internal damage.
- 1.2** Describe any damage or shortage on the receiving documents, and have the carrier sign their full name.
- 1.3** If your receiving freight bill notes that a Tip-N-Tell is attached to your freight, locate it. If the Tip-N-Tell arrow has turned even partially blue, this means the freight has been tipped in transport. Make sure the carrier notes this on your receipt before you sign for the freight.

2. EQUIPMENT INSPECTION

- 2.1** Within fifteen days, open the crate and inspect the contents for damages. While unpacking, be careful not to discard any equipment, parts, or manuals. If any damage is detected, call the delivering carrier to determine appropriate action. They may require an inspection.

***SAVE ALL SHIPPING MATERIAL FOR THE INSPECTOR TO SEE!**

- 2.2** After the inspection has been made, call UNIPOWER. We will determine if the equipment should be returned to our plant for repair, or if some other method would be more expeditious. If it is determined that the equipment should be returned to UNIPOWER, ask the delivering carrier to send the packages back to UNIPOWER at the delivering carrier's expense.
- 2.3** If repair is necessary, we will invoice you for the repair so that you may submit the bill to the delivering carrier with your claim form.

- 2.4** It is your responsibility to file a claim with the delivering carrier. Failure to properly file a claim for shipping damages may void warranty service for any physical damages later reported for repair.

3. HANDLING

Equipment can be universally heavy or top-heavy. Use adequate manpower or equipment for handling. Until the equipment is securely mounted, be careful to prevent the equipment from being accidentally tipped over.

4. NAMEPLATE

Each piece of UNIPOWER equipment is identified by a part number on the nameplate. Please refer to this number in all correspondence with UNIPOWER.

5. INITIAL SETTINGS

All equipment is shipped from our production area *fully checked and adjusted*. Do not make any adjustments until you have referred to the technical reference or product manual.

6. SPARE PARTS

To minimize downtime during installation or operation, we suggest you purchase spare fuses, circuit boards and other recommended components as listed on the Recommended Spare Parts List in the back of the product manual. If nothing else, we strongly recommend stocking spare fuses for all systems.

ISSUE HISTORY

ISSUE	PAGE(S)	DESCRIPTION	ISSUED BY/DATE
5	All	Updated UNIPOWER logo & contact information. See PCO# 44417	WD 6/12/17

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Throughout the remainder of this manual, “UNIPOWER” will mean “UNIPOWER, LLC.”

PERSONNEL REQUIREMENTS

Installation, setup, operation, and servicing of this equipment should be performed by qualified persons thoroughly familiar with this Product Manual and Applicable Local and National Codes. A copy of this manual is included with the equipment shipment.

TABLE A, BUS BAR ASSEMBLIES

GROUND BUS BARS						
CURRENT RATING	RACK SIZE	DEPTH (X")	TYPE NUMBER	MODEL NUMBER	FIG.	RATING
200 A	19"	5.125"	19PDG200	111B-2240-01	1	STD
400 A	19"	5.250"	19PDG400	111B-2240-02	2	
400 A	19"	5.250"	19PDG400S	111B-2240-79	4	
600 A	19"	5.250"	19PDG600	111B-2240-03	3	
800 A	19"	5.250"	10PDG800	111B-2240-04	3	
200 A	23"	5.125"	23PDG200	111B-2240-11	5	STD
400 A	23"	5.250"	23PDG400	111B-2240-12	6	
400 A	23"	5.250"	23PDG400S	111B-2240-89	8	
600 A	23"	5.250"	23PDG600	111B-2240-13	7	
800 A	23"	5.250"	23PDG800	111B-2240-14	7	
TERMINATION BUS BARS						
200 A	19"	7.125"	19PDT200	111B-2240-21	1	STD
400 A	19"	7.250"	19PDT400	111B-2240-22	2	
400 A	19"	7.250"	10PDT400S	111B-2240-80	4	
600 A	19"	7.250"	19PDT600	111B-2240-23	3	
800 A	19"	7.250"	19PDT800	111B-2240-24	3	
200 A	23"	7.125"	23PDT200	111B-2240-31	5	STD
400 A	23"	7.250"	23PDT400	111B-2240-32	6	
400 A	23"	7.250"	23PDT400S	111B-2240-90	8	
600 A	23"	7.250"	23PDT600	111B-2240-33	7	
600 A	23"	7.250"	23PDT800	111B-2240-35	9	
800 A	23"	7.250"	23PDT800	111B-2240-34	7	
COMBINATION GROUND & TERMINATION BUS BARS						
200 A	19"	5.125"	19PDG200S	111B-2240-500	10	STD
200 A	23"	5.125"	23PDG200S	111B-2240-510	11	

NOTES:

- 1) A MINIMUM OF ONE RACK SPACE (1.750") MUST BE PROVIDED BETWEEN EACH BUS BAR AND AN ADJOINING PIECE OF EQUIPMENT.
- 2) 200 AMP AND 400 AMP BUS BARS REQUIRE ONE RACK SPACE (1.750"). 600 AMP AND 800 AMP BUS BARS REQUIRE TWO RACK SPACES (3.500").
- 3) ALL BUS BARS ARE DESIGNED FOR SINGLE OR DOUBLE HOLE MOUNTING LUGS. ORDER LUG KITS FROM TABLE C.
- 4) ALL GROUND AND TERMINATION BUS BARS ARE COPPER AND ARE INSULATED BY ONE INCH FIBERGLASS SPACERS.

TABLE B

NO.	HOLE SIZE
A	0.281" DIA.
B	0.375" DIA.
C	0.406" DIA.
D	0.406" x 0.781" OBR.
E	0.531" x 0.875" OBR.

TABLE C


SINGLE HOLE LUG KIT		
WIRE RANGE GA	AMP RATING	RATELCO PART NUMBER
14 TO 6	35	253-2010-00
14 TO 2	90	253-2020-00
8 TO 1/0	125	253-2030-00
6 TO 250MCM	225	253-2040-00
1/0 TO 350MCM	300	253-2045-00
1/0 TO 500MCM	400	253-2050-00
4/0 TO 1000MCM	650	253-2060-00
TWO HOLE LUG KIT		
14 TO 6	35	253-0035-00
8 TO 2	70	253-0036-00
2 TO 1/0	125	253-0037-00
2 TO 4/0	225	253-0038-00
1/0 TO 350MCM	300	253-0039-00
1/0 TO 500MCM	400	253-0041-00
600 TO 1000MCM	650	253-0041-00

SHEET INDEX

SH NO	1	2	3
ISSUE	6	5	4

ISSUES

ISSUE #	DESCRIPTION	ISS. BY ISS. DATE
6	UPDATED UNIPOWER LOGO. SEE PCO# 44417	WD 6/12/17

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:		APPROVALS	DATE
±		DRAWN IY	1/11/99
HOLES	+0.004 -0.002	CHECKED	
FRACTIONS	±1/32	APPROVED	
DECIMALS (XX)	±0.020	APPROVED	
DECIMALS (XXX)	±0.010	ES	1/11/99
ANGLES	±1/2°		
SQUARE CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED.			
WORKMANSHIP: PER SPEC ENG032			
MATERIAL:			
FINISH:			
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BUS BARS 200AMP - 800 AMP			
SIZE B	DOC TYPE / NUMBER J 111B-2240		ISSUE 6
SCALE: N/A	SHEET: 1 OF 3	FILE NAME: J111B-2240_SHT_1_ISS_6	

19" BUS BARS

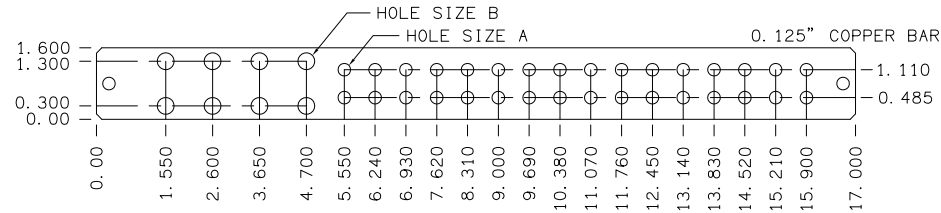


FIG. 1
200A

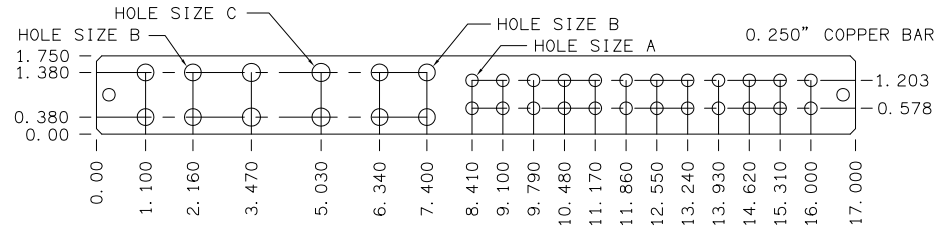


FIG. 2
400A

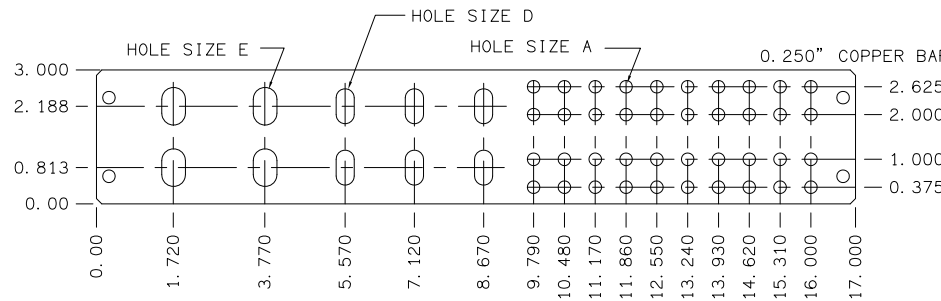


FIG. 3
600A
AND
800A

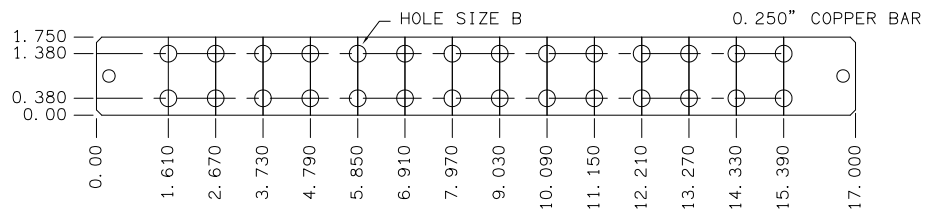


FIG. 4
400A

23" BUS BARS

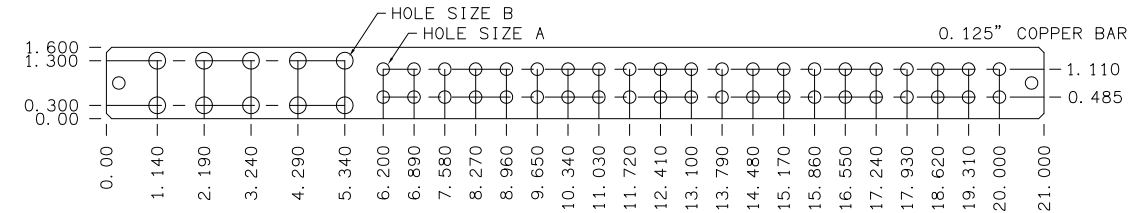


FIG. 5
200A

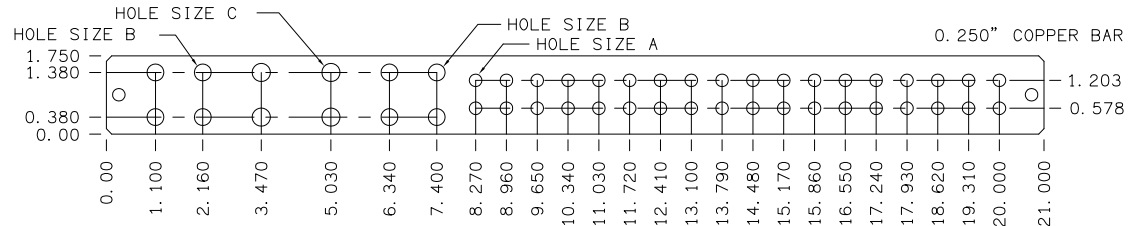


FIG. 6
400A

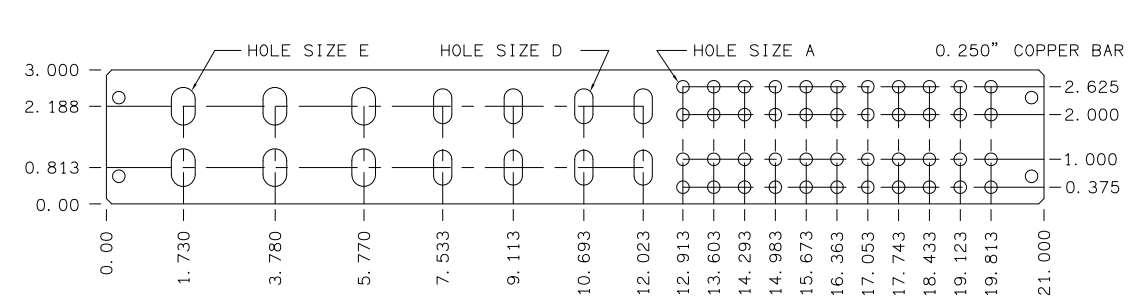


FIG. 7
600A
AND
800A

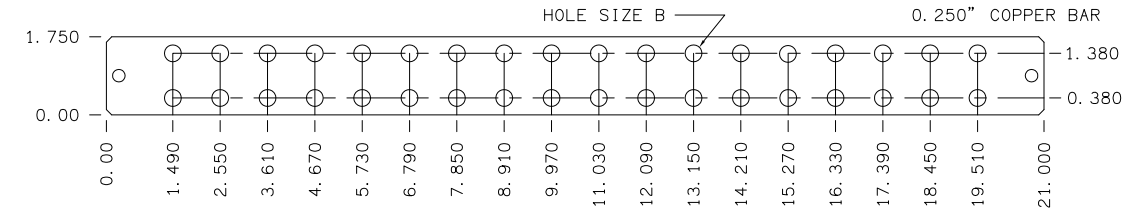


FIG. 8
400A

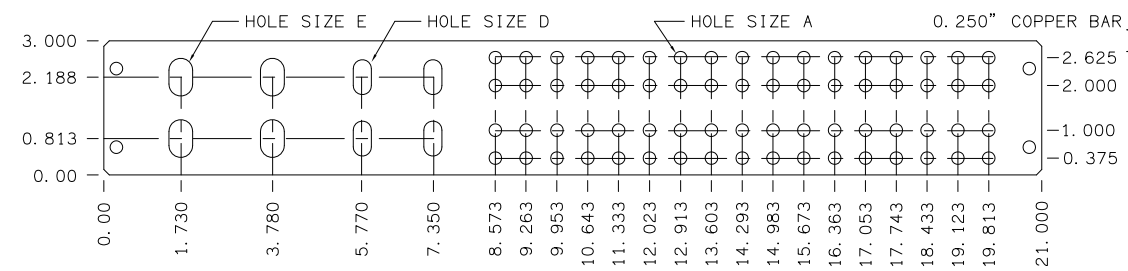
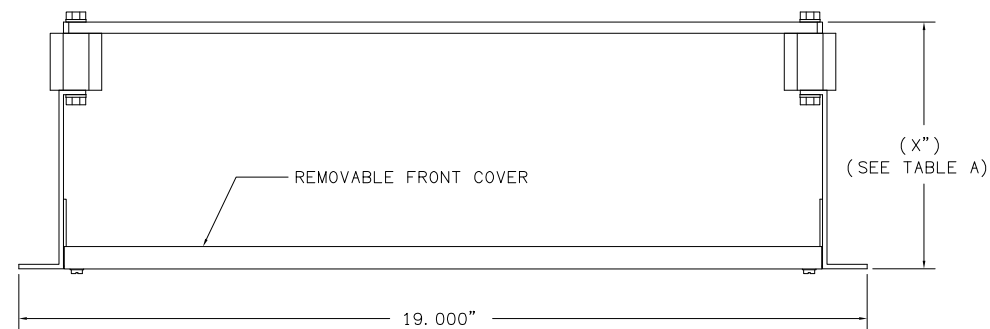
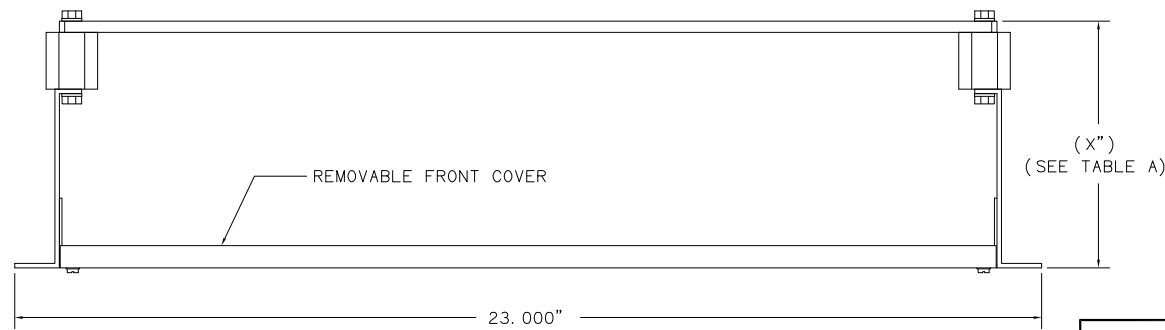


FIG. 9
600A
AND
800A



TOP VIEW

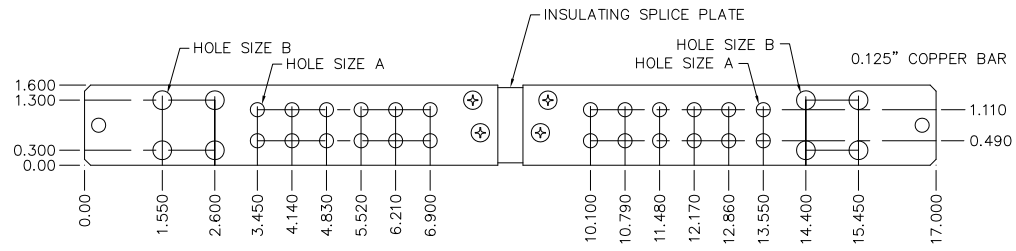


TOP VIEW

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<p>SIZE B</p>	<p>DOC TYPE / NUMBER J 111B-2240</p>	<p>ISSUE 5</p>
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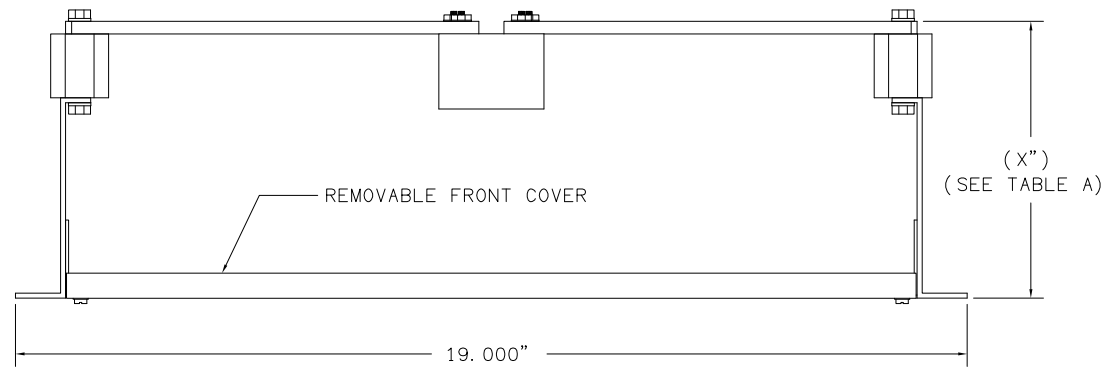
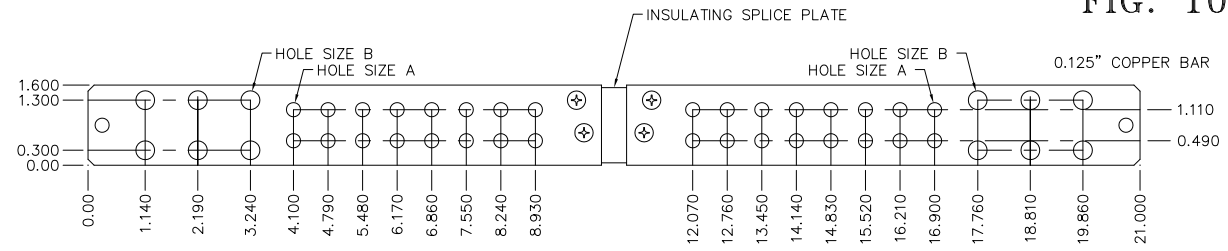
19" BUS BAR ASSEMBLY

FIG. 9

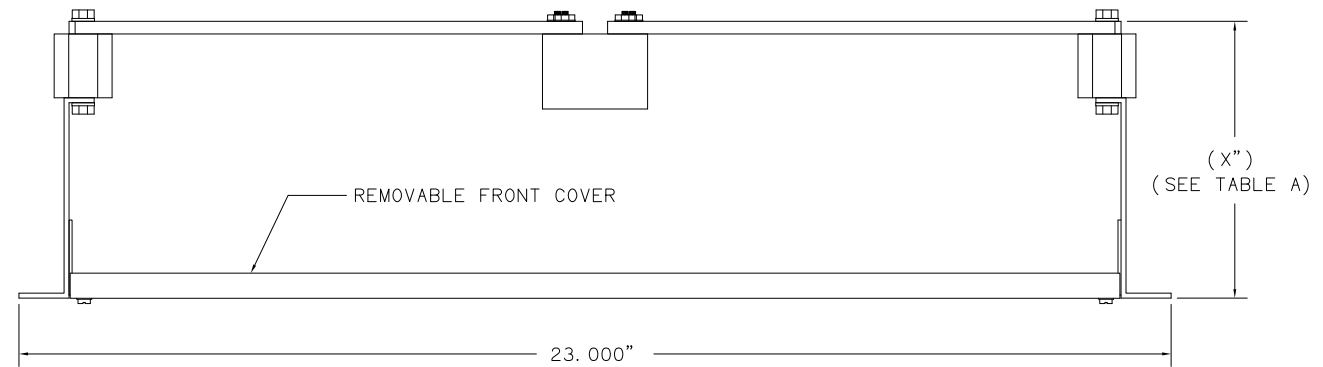


23" BUS BAR ASSEMBLY

FIG. 10



TOP VIEW



TOP VIEW

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