

SEE SHEET 2 FOR THESE CONNECTIONS

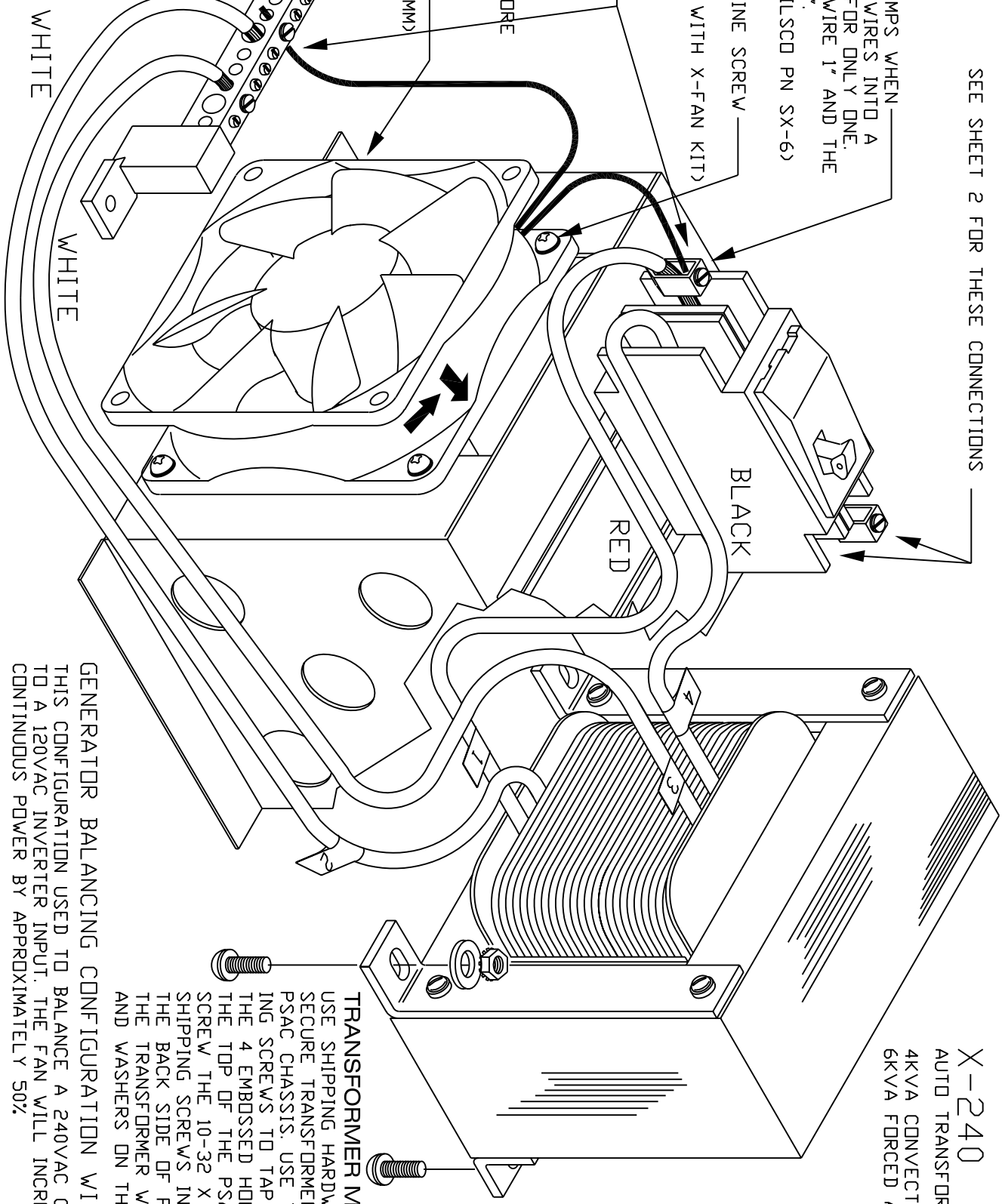
USE SERVICE CLAMPS WHEN CONNECTING TWO WIRES INTO A TERMINAL RATED FOR ONLY ONE. STRIP THE THRU WIRE 1" AND THE SECOND WIRE 1/2". (SERVICE CLAMP ILSCD PN SX-6)

6-32 X 1/2" MACHINE SCREW  
6-32 KEPNUT  
4 PLACES (COMES WITH X-FAN KIT)

USE PIN CRIMP TO BRING FAN WIRES UP TO 14AWG (SUPPLIED WITH X-FAN KIT) INSTALL FAN BEFORE TRANSFORMER

120VAC FAN  
4.72" SQUARE (120MM)

AC NEUTRAL  
TERMINAL  
BUS BAR  
(PART OF PSAC)



**X-240**  
AUTO TRANSFORMER  
4KVA CONVECTION COOLED  
6KVA FORCED AIR COOLED

**TRANSFORMER MOUNTING**  
USE SHIPPING HARDWARE TO SECURE TRANSFORMER TO PSAC CHASSIS. USE THE MOUNTING SCREWS TO TAP OUT THE 4 EMBOSSED HOLES AT THE TOP OF THE PSAC. SCREW THE 10-32 X 7/8" SHIPPING SCREWS IN FROM THE BACK SIDE OF PSAC. SECURE THE TRANSFORMER WITH NUTS AND WASHERS ON THE INSIDE.

**GENERATOR BALANCING CONFIGURATION WITH FAN**  
THIS CONFIGURATION USED TO BALANCE A 240VAC GENERATOR TO A 120VAC INVERTER INPUT. THE FAN WILL INCREASE CONTINUOUS POWER BY APPROXIMATELY 50%.

**Outback** 19009 62nd Ave. N.E.  
Arlington, Wa. 98223 U.S.A.  
Power Systems Phone 360-435-6030

Tolerances  
XX = ±.02  
XXX = ±.010  
Angles ±2°  
Unless otherwise noted  
Break all sharp corners

File Name: Robin Gudgeal  
File Name: 9-20-01

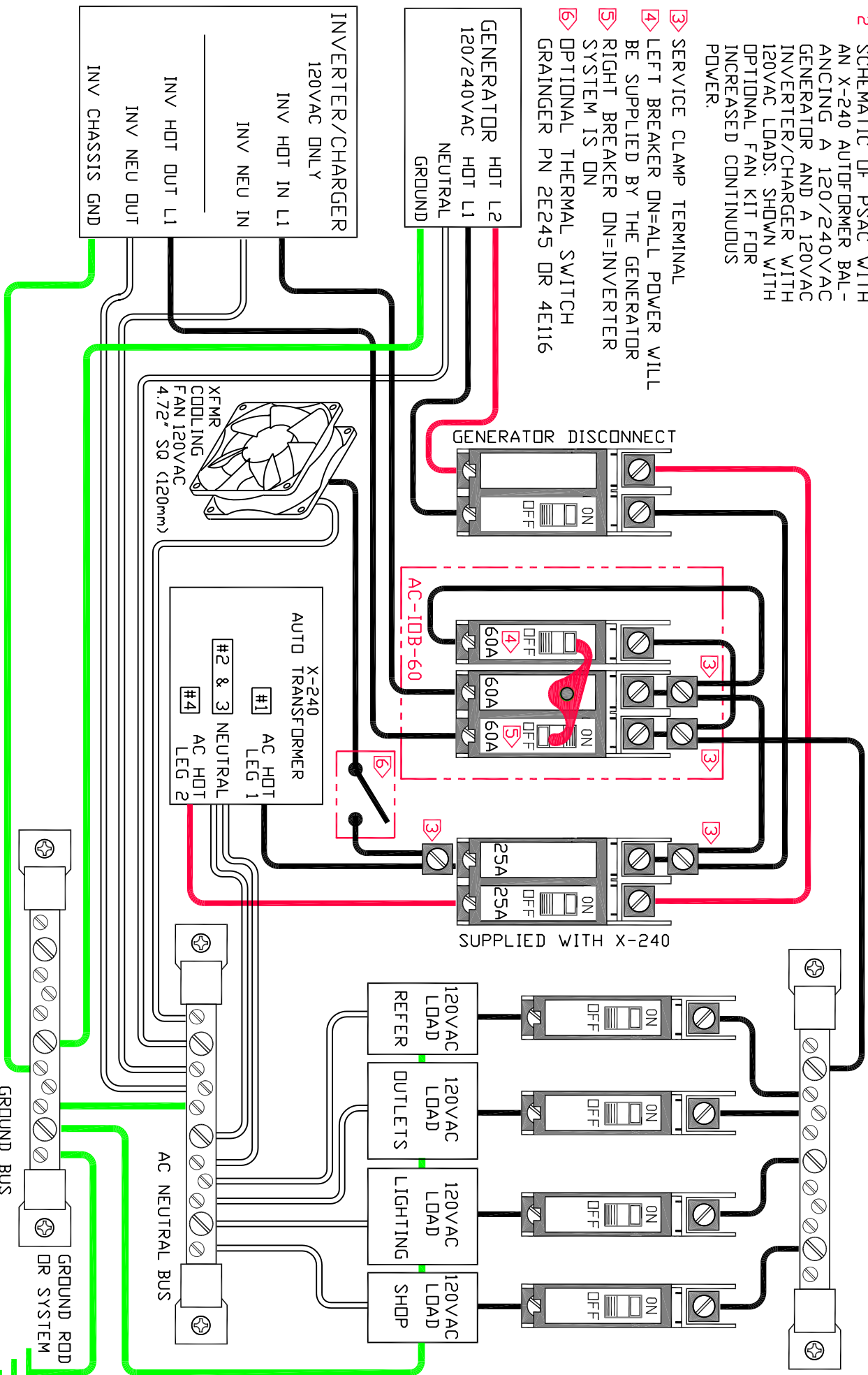
Title: X-240 GENERATOR BALANCING CONFIG  
File Name: 900-0009-1  
Sht 1 of 4 REV C

Information on this drawing is proprietary to Outback Power Systems Inc.

1 THIS SCHEMATIC IS FOR REFERENCE ONLY !  
 ACTUAL INSTALLATIONS WILL DIFFER FROM THIS.  
 SHOWN ARE: FACTORY INSTALLED PARTS,  
 OPTIONS AND USER INSTALLED PARTS.

2 SCHEMATIC OF PSAC WITH  
 AN X-240 AUTODRMR BAL-  
 ANcing A 120/240VAC  
 GENERATOR AND A 120VAC  
 INVERTER/CHARGER WITH  
 120VAC LOADS. SHOWN WITH  
 OPTIONAL FAN KIT FOR  
 INCREASED CONTINUOUS  
 POWER.

- 3 SERVICE CLAMP TERMINAL
- 4 LEFT BREAKER ON=ALL POWER WILL  
 BE SUPPLIED BY THE GENERATOR
- 5 RIGHT BREAKER ON=INVERTER  
 SYSTEM IS ON
- 6 OPTIONAL THERMAL SWITCH  
 GRAINGER PN 2E245 DR 4E116



AC HOT LEG 1

- 120VAC LOAD REFER
- 120VAC LOAD OUTLETS
- 120VAC LOAD LIGHTING
- 120VAC LOAD SHDP

GROUND BUS

GROUND ROD  
 DR SYSTEM

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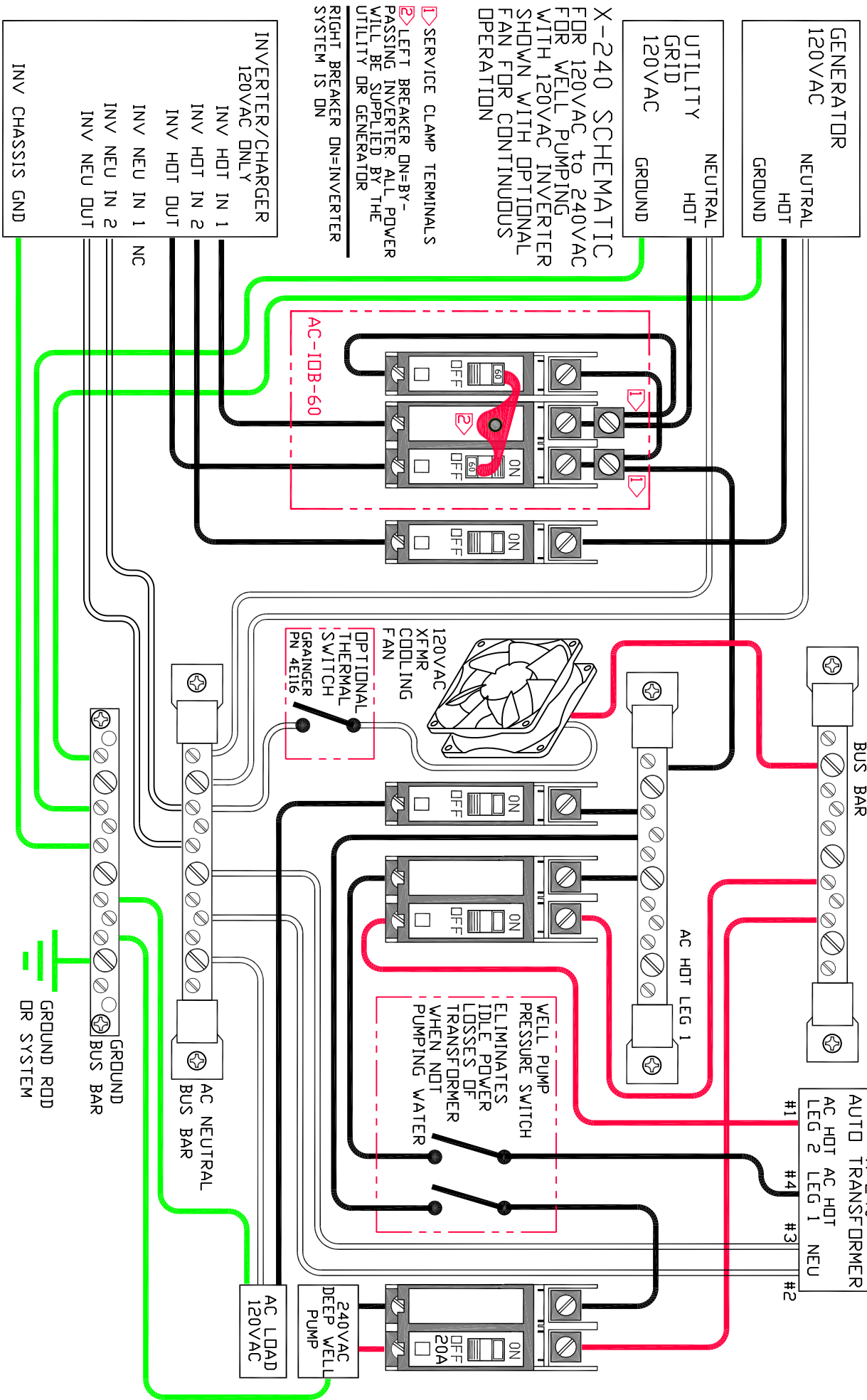
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 File Name: 9-20-01

Title: X-240 GENERATOR BALANCING CONFIG  
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Sht 2 of 4 REV B

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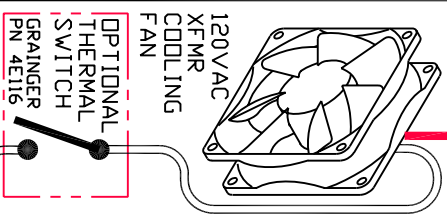
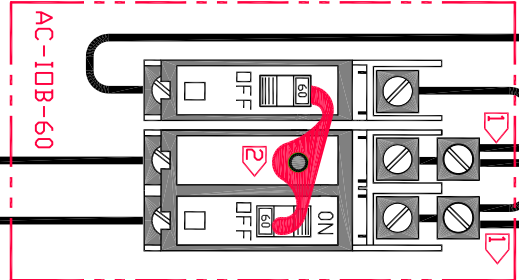
**X-240 SCHEMATIC FOR 120VAC to 240VAC FOR WELL PUMPING WITH 120VAC INVERTER SHOWN WITH OPTIONAL FAN FOR CONTINUOUS OPERATION**

Ⓛ SERVICE CLAMP TERMINALS  
 Ⓡ LEFT BREAKER ON=BY-PASSING INVERTER, ALL POWER WILL BE SUPPLIED BY THE UTILITY OR GENERATOR  
 RIGHT BREAKER ON=INVERTER SYSTEM IS ON

**GENERATOR 120VAC**  
 NEUTRAL  
 HOT  
 GROUND

**UTILITY GRID 120VAC**  
 NEUTRAL  
 HOT  
 GROUND

**INVERTER/CHARGER 120VAC ONLY**  
 INV HOT IN 1  
 INV HOT IN 2  
 INV HOT OUT  
 INV NEU IN 1  
 INV NEU IN 2  
 INV NEU OUT  
 NC  
 INV CHASSIS GND



**WELL PUMP PRESSURE SWITCH**  
 ELIMINATES IDLE POWER LOSSES OF TRANSFORMER WHEN NOT PUMPING WATER

**X-240 AUTO TRANSFORMER**  
 AC HOT AC HOT  
 LEG 2 LEG 1  
 NEU

**240VAC DEEP WELL PUMP**  
**AC LOAD 120VAC**

**GROUND ROD OR SYSTEM**

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 File Name: 10-09-01

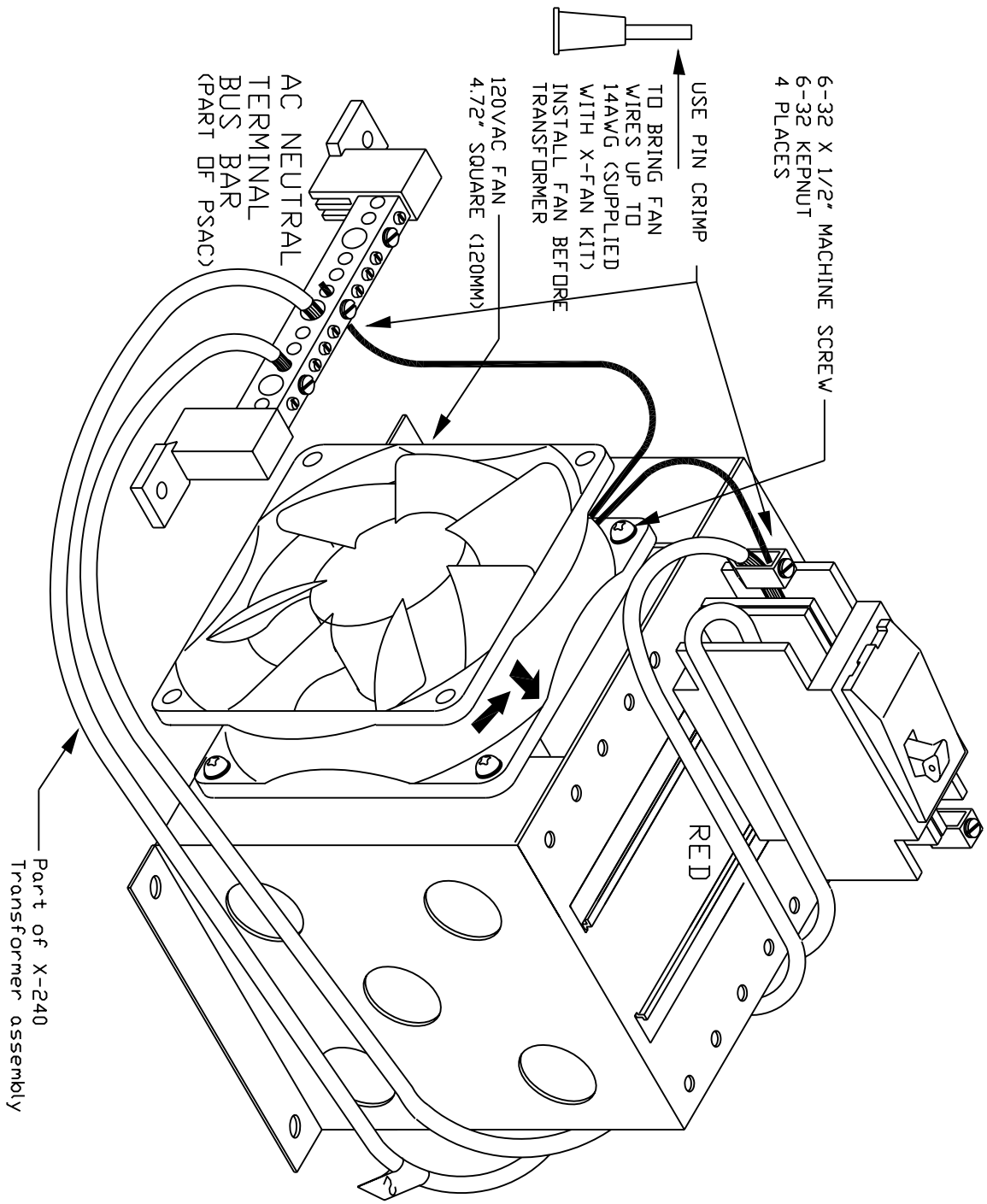
Title: X-240 STEP UP CONFIGURATION

File Name: 900-0009-1

Sht 3 of 4 REV B

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Revision	Description	Date	Approved



6-32 X 1/2" MACHINE SCREW  
 6-32 KEPNUT  
 4 PLACES

USE PIN CRIMP  
 TO BRING FAN  
 WIRES UP TO  
 14AWG (SUPPLIED  
 WITH X-FAN KIT)  
 INSTALL FAN BEFORE  
 TRANSFORMER

120VAC FAN  
 4.72" SQUARE (120MM)

AC NEUTRAL  
 TERMINAL  
 BUS BAR  
 (PART OF PSAC)

Part of X-240  
 Transformer assembly

The fan option will increase continuous power output  
 by approximately 50%.

**This kit includes:**

- 1 fan 120VAC 60Hz PN 856-0001-1
- 2 pin crimp terminals PN 850-0003-1
- 1 fan cord PN 856-0002-1
- 4 6-32 x 1/2" machine screws PN 606-0003-1
- 4 6-32 kepnut PN 604-0003-1
- 1 instruction sheet PN 900-0010-1

1. remove the plain metal breaker mounting bracket from the PSAC enclosure unless you have really small hands. A 10" long #2 phillips will make the job easier.
2. Note the direction of the arrows cast into the fan housing. Orient the fan so the airflow arrows match those on this drawing. You want the air to blow onto the X-240.
3. Make sure that the plug in cord is accessible at the top of the bracket.
4. Using the 6-32 x 1/2" machine screws and kepnuts, secure the fan to the bracket. Tighten down the screws.
5. Re-install the breaker bracket/fan assembly into the PSAC enclosure.
6. Route the wires from the fan power cord as shown and cut to length. Strip each wire 3/8" and install a crimp pin to each wire. Use a suitable crimp tool and conduct a pull test to insure proper crimp.
7. Install the X-240 transformer as detailed in the transformer mounting instructions and then hook up the two wires from the fan as shown here.

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File Name: Robin Gudge  
 File Name: 11-20-01

Title: X-Fan Option for X-240  
 File Name: 900-0009-1  
 Sht 4 of 4  
 REV B

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