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GP REPLACEMENT

1- REPLACEMENT PROCEDURE

Note

Signa Software Download time can be up to 10 minutes on a replacement GP module. If the software loaded on the Signa system does not match the firmware loaded on the GP Board received as a replacement, there will be a **one-time** lengthy download of current firmware to the GP. During this download the IPG will read “GP Load”. Please be patient.

1-1 Tools and Instruments Required

Item	Description	Part Number
1.	Gradient Processor (GP) Assembly	FRU# 2248992-4
2.	Phillips-head screwdriver	
3.	Flat Blade screwdriver	

1-2 Preliminary Set Up Procedure



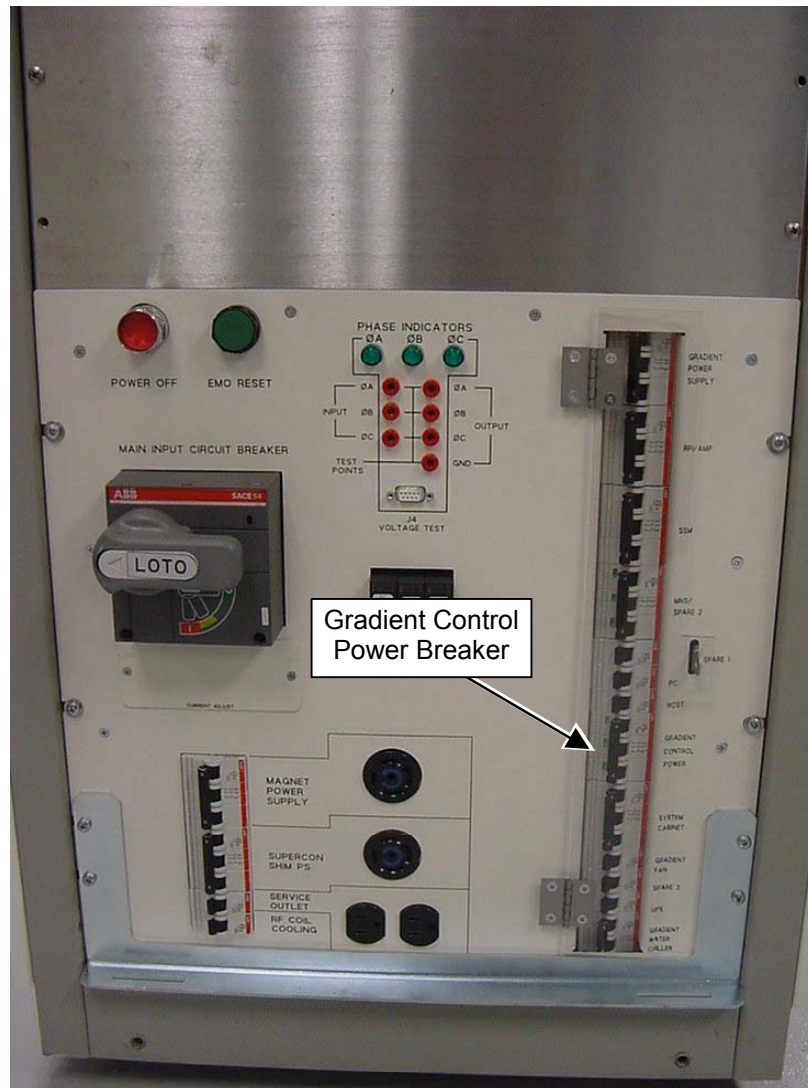
FATAL ELECTRIC SHOCK HAZARD!! POSSIBLE 800 VOLTS ON CAPACITORS. WAIT AT LEAST 5 MINUTES AFTER UNIT HAS BEEN TURNED OFF BEFORE SERVICING. TO PREVENT FATAL ELECTRIC SHOCK, DISCONNECT POWER FROM THE PDU BEFORE YOU PERFORM THE FOLLOWING PROCEDURES. PERFORM LOCKOUT / TAGOUT PROCEDURE PER GE OSHA LOCKOUT / TAGOUT REQUIREMENTS LISTED IN THE *FIELD SERVICE EHS MANUAL & TRAINING 2000 P/N 2135387-200.*



Electric Shock Hazard! Power is present at the bottom of the cabinet even though the ACGD Lite Breaker is OFF.

1-2 Preliminary Setup Procedure (Continued)

1. Remove the front cover to the ACGD Lite cabinet.
2. Power down the GP by turning off the Gradient Control Power breaker on the Front Panel of the PDU. See Illustration 1-1.

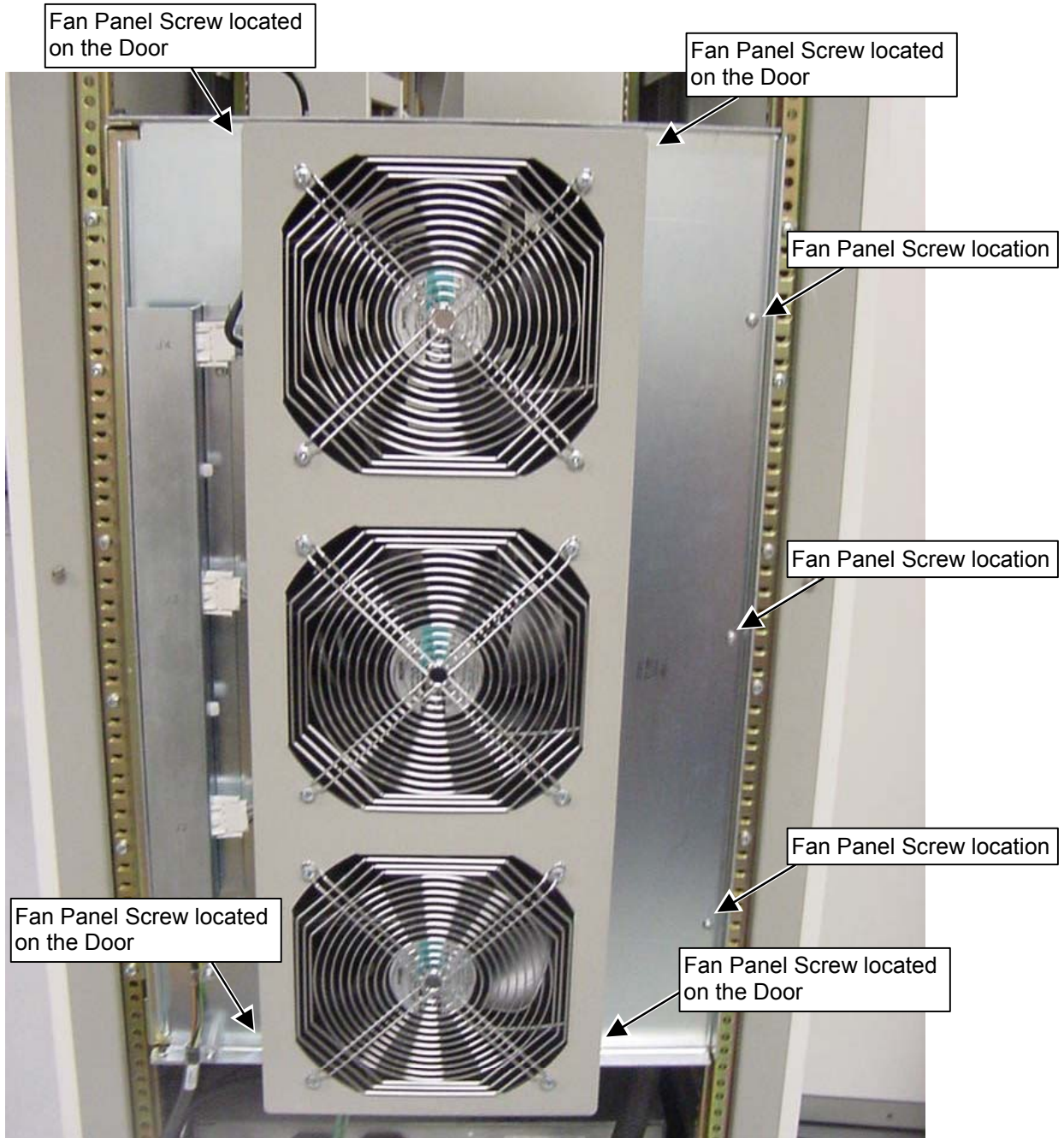


ACGD LITE CABINET—PDU (FRONT COVER REMOVED)
ILLUSTRATION 1-1

2. Lock out the breaker panel and tag it.
3. After power to the GP has been removed, verify that LEDs on front of GP are **NOT** illuminated.

1-3 Replacement Procedure Steps

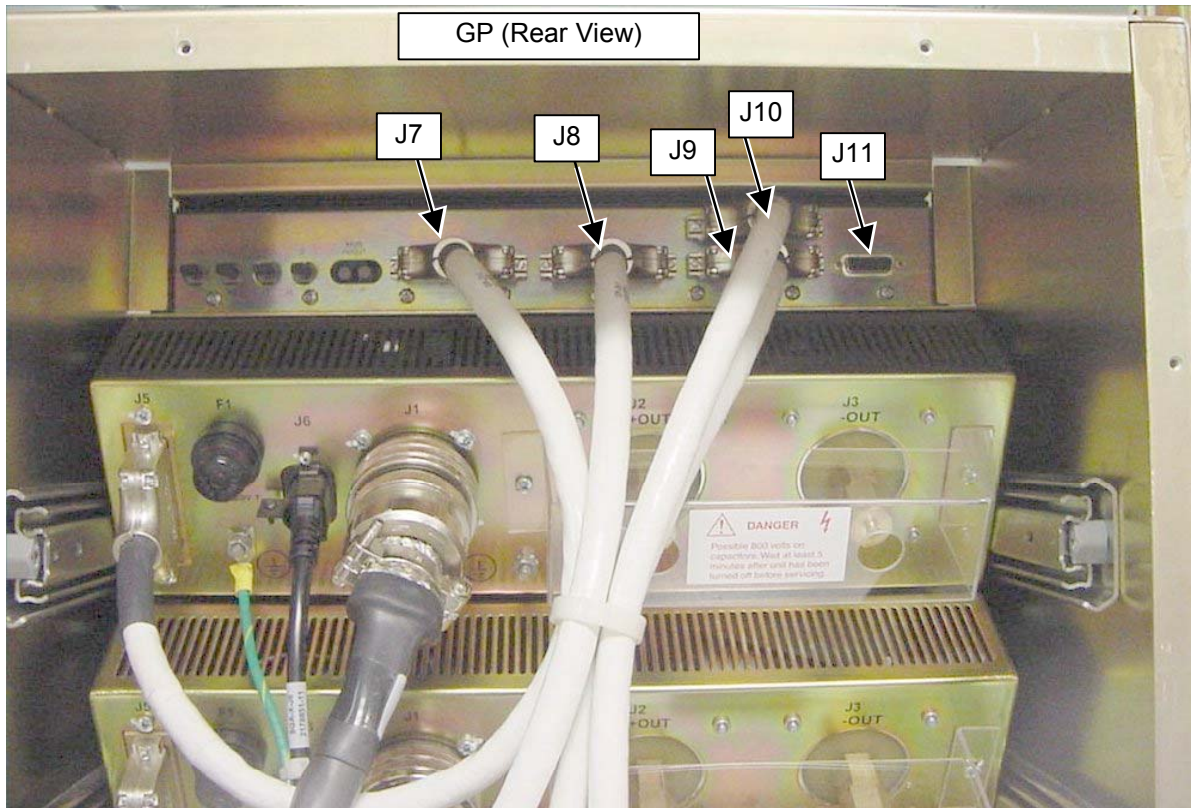
1. Remove the rear cover of the ACGD Lite cabinet.
2. Remove the 7 (seven) screws on the Fan panel. See Illustration 1-2.



LOCATION OF SCREWS TO OPEN FAN PANEL
ILLUSTRATION 1-2

1-3 Replacement Procedure Steps (continued)

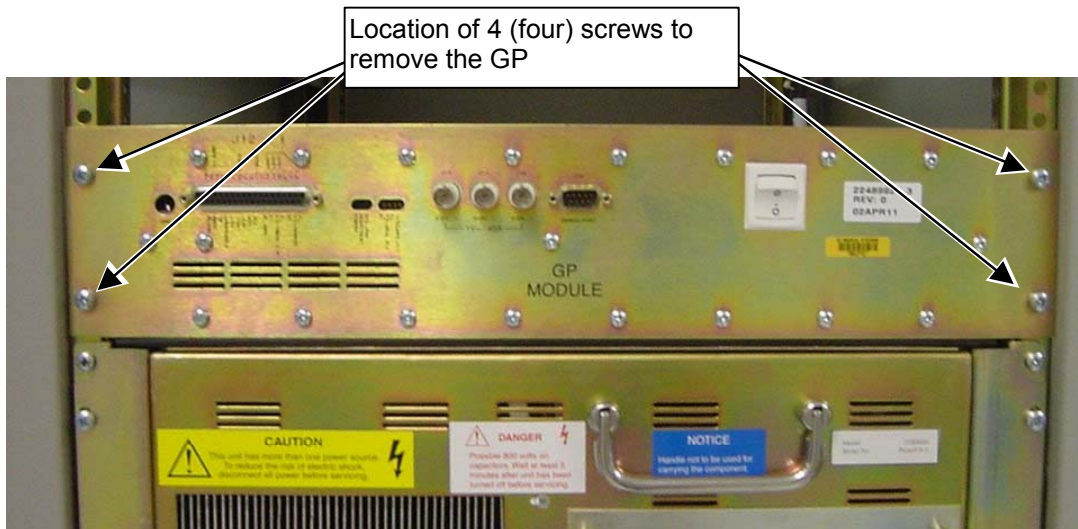
3. Disconnect all cables from the rear of the GP module, J7, J8, J9, J10 & J11. See Illustration 1-3.



GP REAR CONNECTIONS
ILLUSTRATION 1-3

1-3 Replacement Procedure Steps (continued)

4. Remove four (4) Phillips head screws from the outer corners of the GP front panel. See Illustration 1-3.



ACGD LITE GP ASSEMBLY SHOWING SCREW LOCATIONS
ILLUSTRATION 1-4

5. Pull out the GP module just far enough to reach in behind the front panel. Reach in to disconnect the AC cord to the module.
6. Remove the module completely from the cabinet.
7. Reverse the above steps to install the GP module.

1-4 Functional Checks Required

Note

Signa Software Download time can be up to 10 minutes on a replacement GP module. If the software loaded on the Signa system does not match the firmware loaded on the GP Board received as a replacement, there will be a **one-time** lengthy download of current firmware to the GP. During this download the IPG will read “GP Load”. Please be patient.

1. Check gradient calibration using procedure *System Level Procedures: Setup & Calibration: Gradient Calibration (DQA Version)* or alternate proprietary procedure *System Level Procedures: Setup & Calibration: SPT Head Quick Check*. Calibrate if necessary.
2. Run Digital DC Offsets.
 1. Check Digital DC offsets with procedure for DC Offsets Adjustment.
 - A. Select **[Diagnostics]** from the Service Desktop and select **[Start]**.
 - B. Select **[IPG]**, **[Manual]**, **[Digital DC Offset]**, then **[Close]**.
 - C. Click **[Close]** on the *IPG_window*. Select **[Run Diagnostics]** ←TPS should download and you should observe the words “DC OFFSET” on IPG boards with a display.
 - D. When one pass of diagnostics is complete (3-4 min) exit Diagnostics by closing the *Results* window, then selecting **[Quit]** on the *Diagnostics* window. TPS will download.
3. Run GradCAL.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	August 15, 2003	K. Keshena	Initial Release.