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MINI-GRAM CONTROL BOARD REPLACEMENT

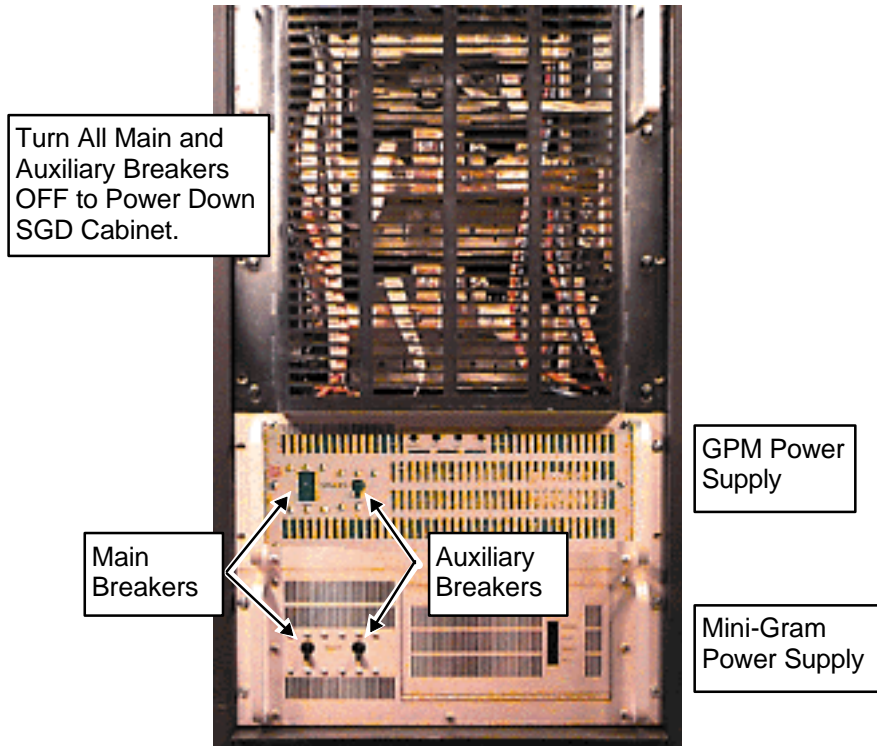
1- REPLACEMENT PROCEDURE

1-1 Tools and Instruments Required

Item	Description	Part Number
1.	Mini-GRAM Control Board	FRU# 2172312
2.	Flat blade medium screwdriver	
3.	Anti-static circuit board bag	
4.	Anti-static wrist strap	

1-2 Preliminary Set Up Procedure

1. Power down the SGD Cabinet by turning off the Main Breakers and Auxiliary Breakers on the Front Panel of **both** the Mini-GRAM Power Supply and the Gradient Power Module Power Supply. See Illustration 1-1.



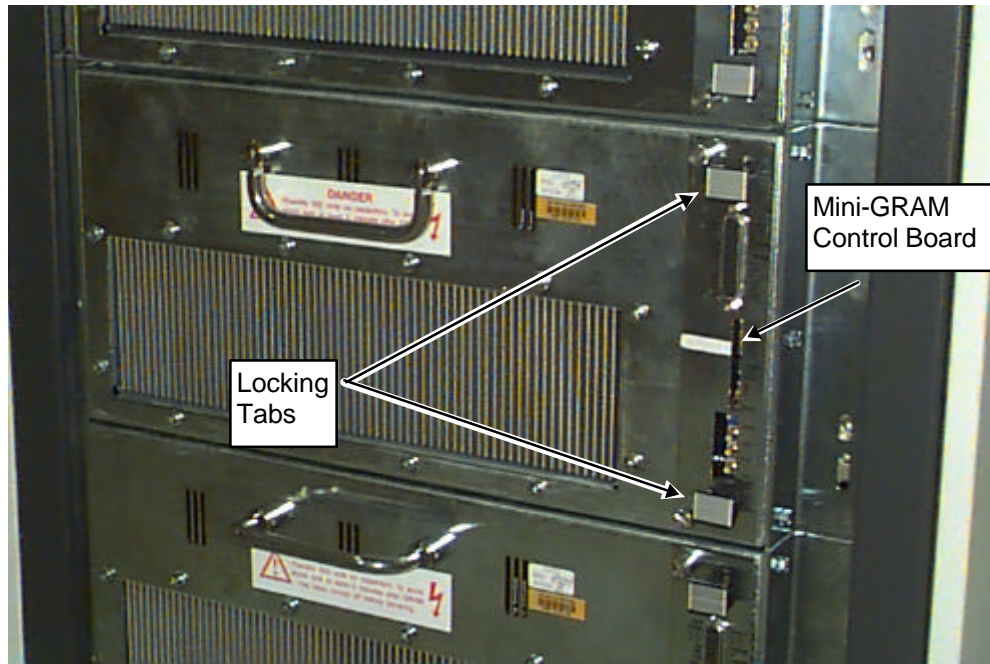
SGD HI-SLEW CABINET—LOWER HALF (FRONT COVER REMOVED)
ILLUSTRATION 1-1



Follow proper ESD static protection procedures. Always wear a wrist strap when handling electronic circuit boards.

1-3 Mini-GRAM Control Board Replacement Procedure

1. Locate the Mini-GRAM control board at the right edge of the Mini-GRAM front panel. See Illustration 1-2.



MINI-GRAM FRONT PANEL SHOWING MINI-GRAM CONTROL BOARD
ILLUSTRATION 1-2

2. While wearing an ESD wrist strap, loosen the two captive slot screws which secure the Control Board panel to the Mini-GRAM front panel.
3. Using your thumbs, press the locking tabs away from the center of the Mini-GRAM Control Board. The Control Board can now be pulled away and removed from the Mini-GRAM. See Illustration 1-2.
4. Place the Control Board into an anti-static circuit board bag.
5. Reverse the order of these procedural steps to install a Mini-GRAM Control Board.

1-4 Functional Checks Required

Perform the following procedures following replacement of the Control Board:

1. Power up the gradient cabinet and verify the system comes up to Ready.
2. Perform *GRAM Tuning For SGD* procedure (only DC Offset, and Auto Lcoil).

3. Perform *SPT Head Quick Check* procedure.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
A	Aug 11, 1997 Sep 6, 1997	F. Fiore F. Fiore	Initial draft of document completed Enter original draft in MR template for Microsoft Word documents.
B	Sep 11, 1997	F. Fiore	Incorporate Illustrations and call outs
C	Sep 23, 1997	F. Fiore	Add Power Down steps
0	Oct 3, 1997	F. Fiore	Initial release for SGD production
1	Dec. 21, 1998	J. Wolak	Updated functional checks required