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ACGD Lite SGA POWER SUPPLY REPLACEMENT

1- REPLACEMENT PROCEDURE

1-1 Tools and Instruments Required

Item	Description	Part Number
1.	SGA Power Supply Lite	2363413
2.	Phillips-head Screwdriver	
3.	Straight-edge Screwdriver	
4.	Universal Lift Hoist Kit	46-317266G6
5.	Digital Multimeter with high voltage probes	

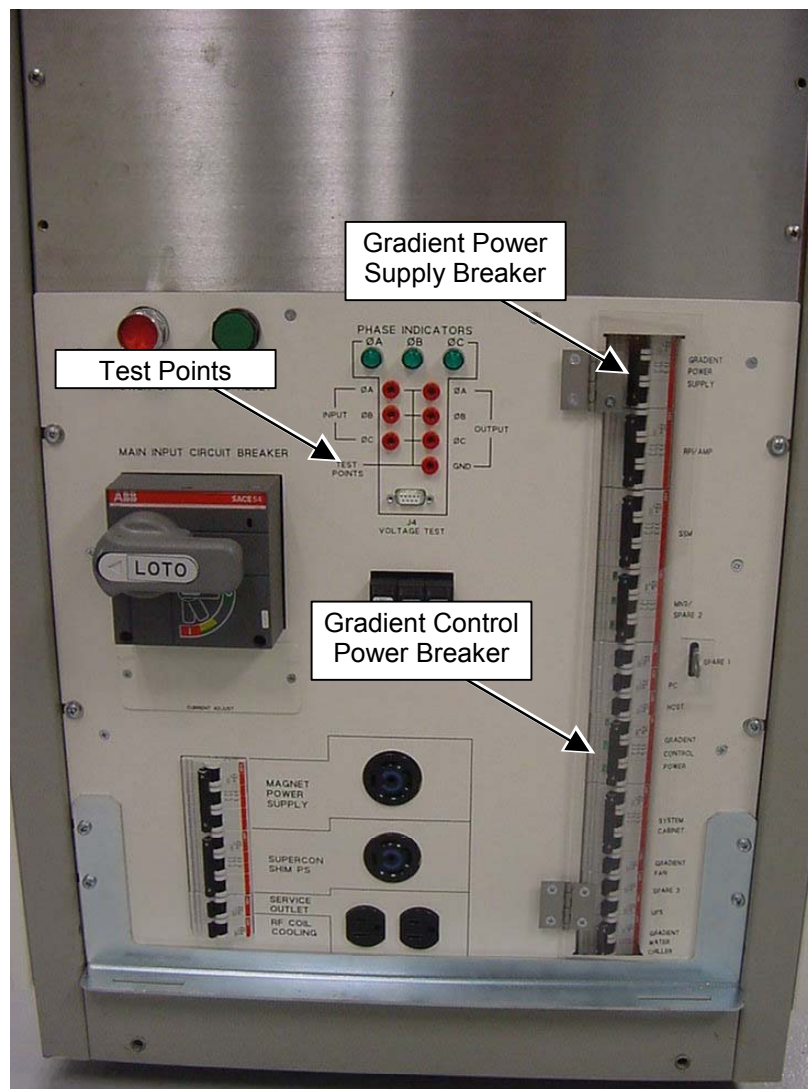
1-2 Lock out Tag out the ACGD Lite Cabinet

1. Remove the ACGD Lite cabinet front cover.

DANGER!!

FATAL ELECTRIC SHOCK HAZARD!! THE SGA MODULES ARE DUAL POWER SOURCED. BOTH THE GRADIENT POWER SUPPLY BREAKER AND THE GRADIENT CONTROL BREAKER MUST BE PLACED IN THE OFF POSITION BEFORE SERVICING THE SGA MODULES.

2. Power down the ACGD Lite cabinet by turning off the Gradient Control Power and the Gradient Power Supply on the Front Panel of the PDU. See Illustration 1-1.



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

1-2 Lock out Tag out the ACGD Lite Cabinet (Continued)

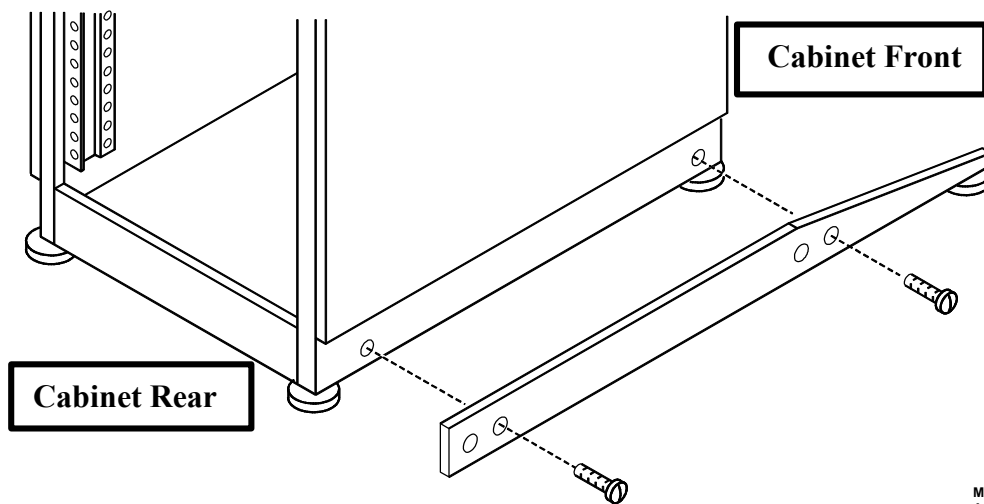
3. Lock out the breaker panel and tag it.
4. After power to the ACGD Cabinet has been removed, take a Digital Multimeter and set it to its highest AC voltage range.
5. Verify that all energy has been dissipated. Measure power at the test points on the front of the PDU. See Illustration 1-1 for test point locations.

1-3 SGA Power Supply Removal Procedure



CABINET TIP HAZARD! POSSIBLE PERSONAL INJURY! CONFIRM THAT THE ALUMINUM ANTI-TIP LEGS STORED IN THE REAR OF THE CABINET ARE INSTALLED ON EITHER SIDE OF THE BASE OF THE CABINET BEFORE ATTEMPTING TO REMOVE AN SGA-PS LITE MODULE.

1. Using the screws included with the anti-tip legs, secure the aluminum anti-tip legs to the threaded holes on each side of the base of the ACGD Lite Cabinet. See Illustration 1-2.

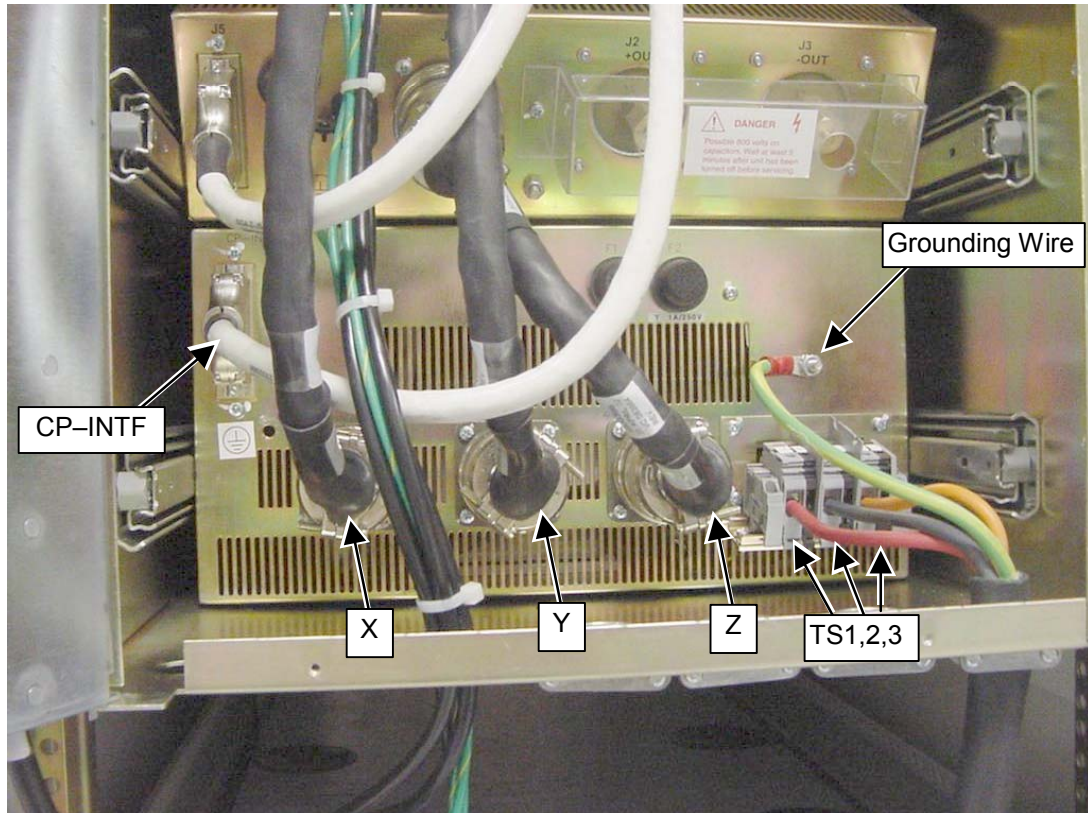


INSTALLING ANTI-TIP LEGS ON SIDES OF CABINET
ILLUSTRATION 1-2

2. Remove the X, Y, & Z military connectors from the rear of the SGA-Power Supply Lite module. See Illustration 1-2.

1-3 SGA Power Supply Removal Procedure (Continued)

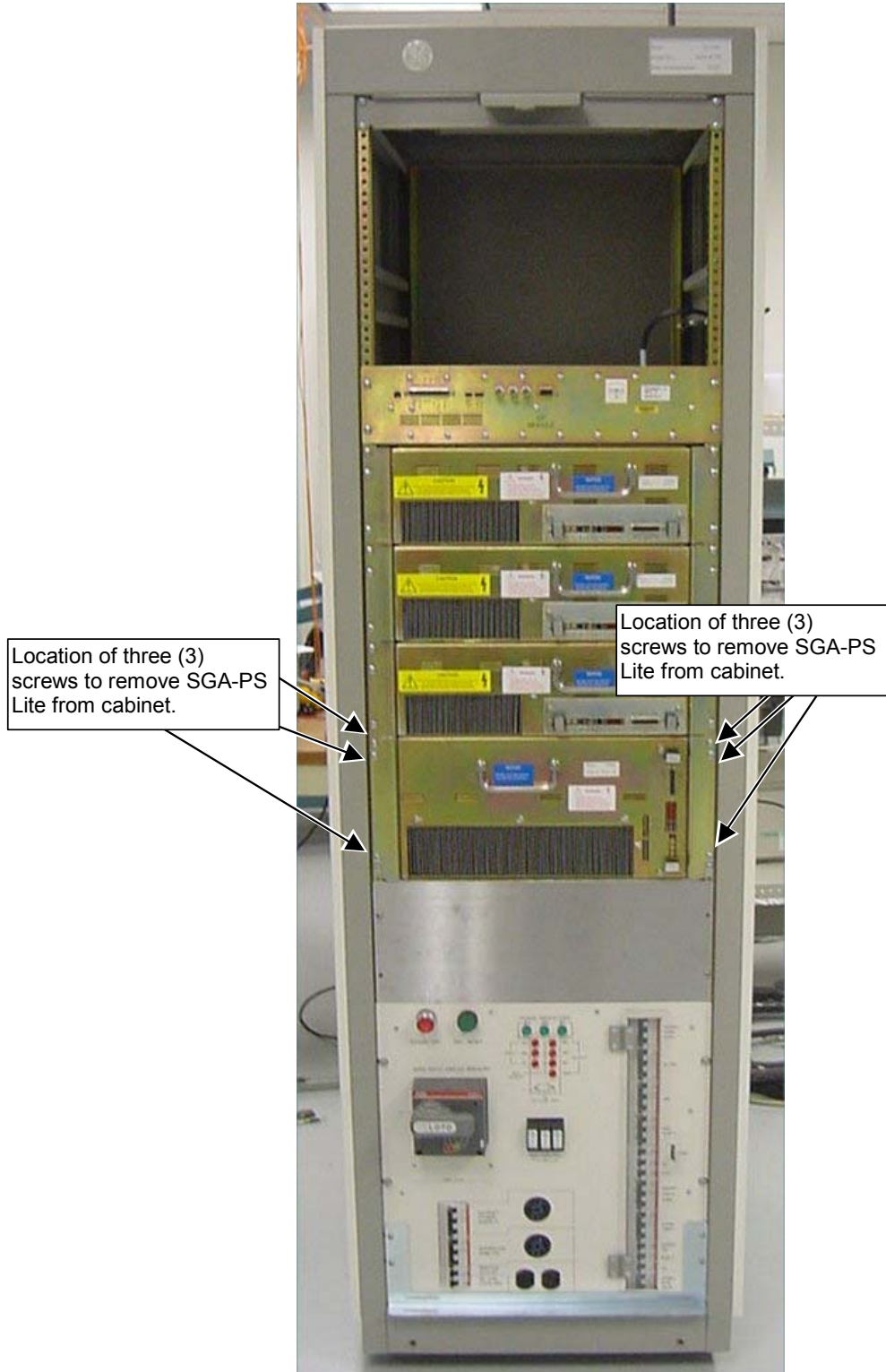
3. Remove the data cable (CP-INTF) from the rear of the SGA Power Supply Lite Module. See Illustration 1-3.
4. Disconnect the TS1, 2, 3 terminals and grounding wire. See Illustration 1-3.



SGA POWER SUPPLY LITE --REAR CONNECTIONS
ILLUSTRATION 1-3

1-3 SGA Power Supply Removal Procedure (Continued)

5. Remove the six (6) Phillips-head screws and washers from the SGA Power Supply Lite (SGA-PS Lite) front panel that secures the SGA-PS Lite to the ACGD Cabinet. See Illustration 1-4.



Location of three (3) screws to remove SGA-PS Lite from cabinet.

Location of three (3) screws to remove SGA-PS Lite from cabinet.

SCREW LOCATION ON SGA-PS LITE FRONT PANEL
ILLUSTRATION 1-4

1-3 SGA Power Supply Removal Procedure (Continued)

6. Pull out the SGA-PS Lite Module until its slide rails latch.

WARNING!

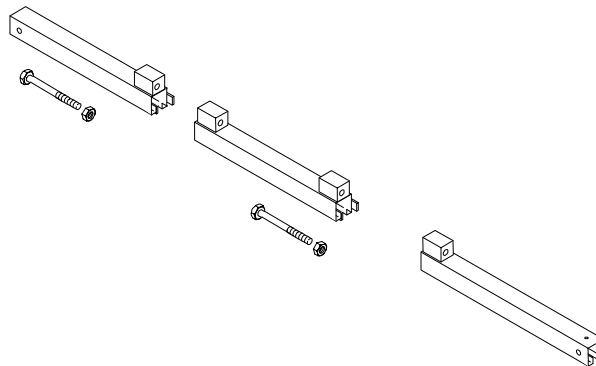
PERSONAL INJURY OR PROPERTY DAMAGE. THE ACGD SGA LITE MODULE WEIGHS 120 LBS~60 KG. THE UNIVERSAL HOIST KIT IS REQUIRED TO REMOVE/REPLACE THE MODULE FROM THE CABINET.

7. Locate and open the Universal Lift Hoist Kit.

Note

The Universal Lift Hoist is assembled from parts stored in the Universal Lift Hoist Kit. Lift brackets specially designed for the SGA-PS-Lite are located in the FRU Case of the replacement module.

8. Locate the three (3) large Steel Rail sections and place them on a flat surface for assembly. See Illustration 1-5.

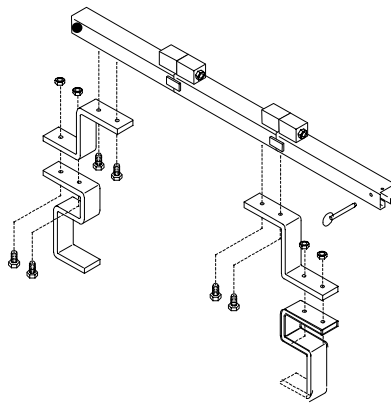


STEEL RAIL SECTIONS, HEX BOLTS, AND HEX NUTS
ILLUSTRATION 1-5

9. Arrange the rail sections in the proper order (rear, center, then front) and fasten them together with 4.75" X 1/2" caps crews and hex nuts.
10. Use the crescent wrenches to tighten the cap screws.

1-3 SGA Power Supply Removal Procedure (Continued)

11. Assemble and fasten the elevating brackets to the rail assembly. See Illustration 1-6.



HOIST TOP RAIL PARTS WITH ELEVATING BRACKETS
ILLUSTRATION 1-6

1-3 SGA Power Supply Removal Procedure (Continued)

- Center the Steel Rail and elevating bracket assembly at the top of ACGD Lite Cabinet, so the hoist assembly will face the front of the cabinet. See Illustration 1-7.



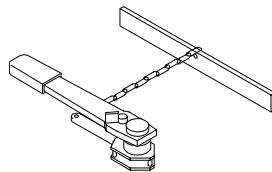
HOIST INSTALLED ON ACGD LITE CABINET
ILLUSTRATION 1-7

- Tighten the bolts on the Steel Rail to secure it to the top of the cabinet.



POSSIBLE PERSONAL AND/OR PROPERTY DAMAGE! VERIFY THAT ALL HARDWARE IS SECURELY FASTENED; ALL BOLTS AND NUTS MUST BE TIGHT PRIOR TO ATTACHING THE HOIST ASSEMBLY TO THE LIFT KIT.

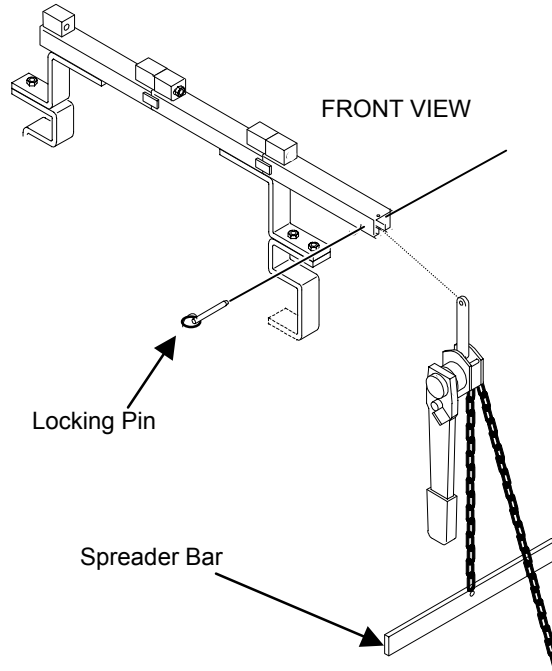
- Locate the Hoist Assembly in the Lift Kit. See Illustration 1-8.



HOIST ASSEMBLY
ILLUSTRATION 1-8

1-3 SGA Power Supply Removal Procedure (Continued)

15. Insert the Hoist Assembly into the open end of the front rail. Insert a locking pin into the holes near the front edge of the front rail. This locking pin prevents the Hoist Assembly from sliding out of the rails. See Illustration 1-9.



PLACEMENT OF HOIST ASSEMBLY INTO FRONT END OF STEEL RAIL ASSEMBLY
ILLUSTRATION 1-9

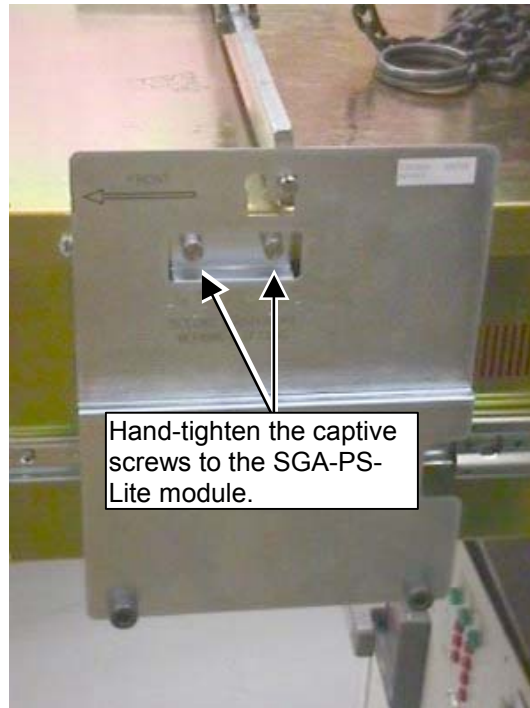
16. Attach the Hoist Brackets from the FRU case onto the spreader bar (one on each side). See Illustration 1-10.



SGA-PS-LITE WITH HOIST BRACKETS ATTACHED TO SPREADER BAR
ILLUSTRATION 1-10

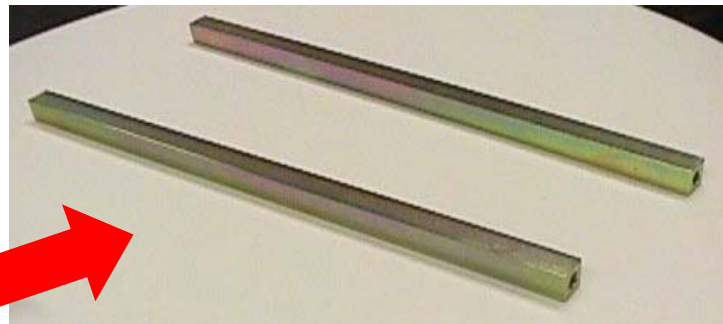
1-3 SGA Power Supply Removal Procedure (Continued)

17. Secure the lift bracket to the module. See Illustration 1-11.



ATTACHING THE HOIST BRACKET TO THE SGA-PS-LITE
ILLUSTRATION 1-11

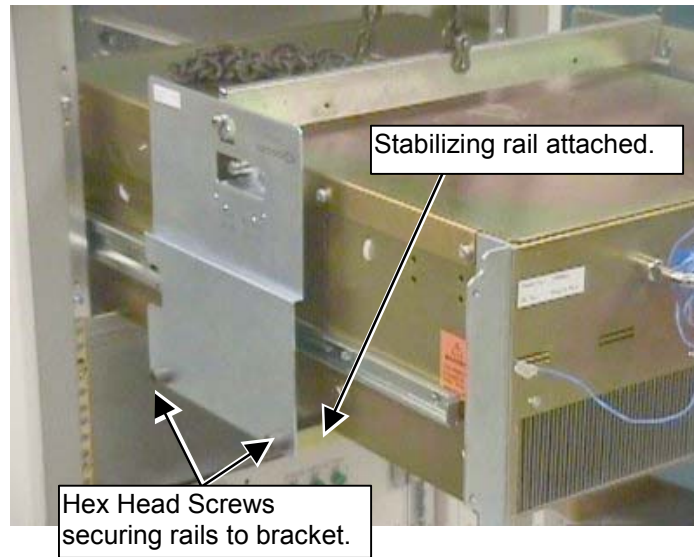
18. Locate the stabilizing rails in the Hoist Kit. See Illustration 1-12.



LOCATION OF STABILIZER BARS IN HOIST KIT
ILLUSTRATION 1-12

1-3 SGA Power Supply Removal Procedure (Continued)

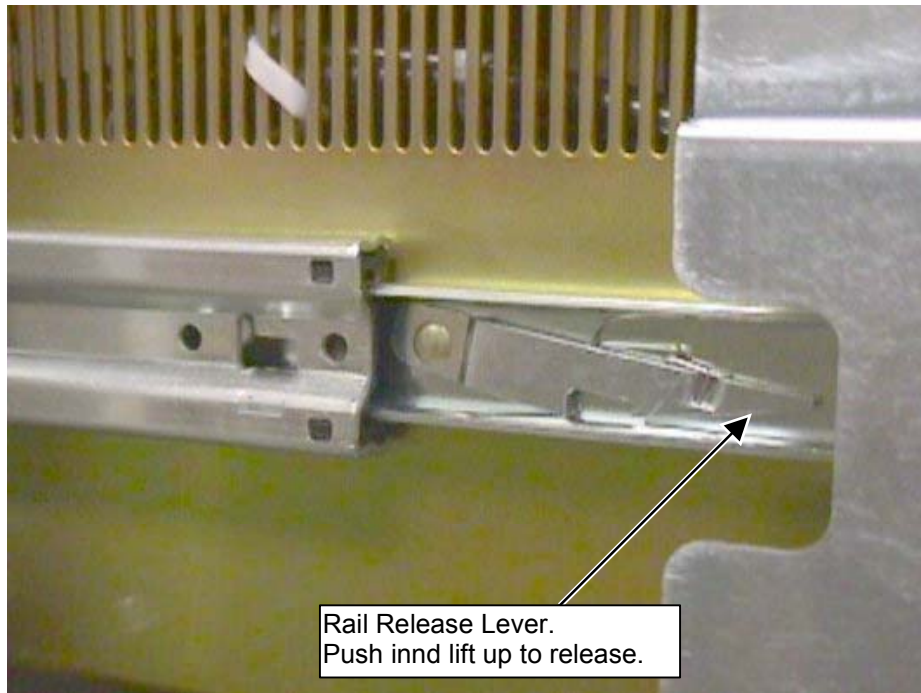
19. Place the stabilizing rails under the SGA-PS-Lite module and secure to the Hoist Brackets using the four (4) Hex head screws. See Illustration 1-13.



STABILIZING RAILS ATTACHED TO HOIST BRACKETS
ILLUSTRATION 1-13

1-3 SGA Power Supply Removal Procedure (Continued)

20. Tighten the captive screws on the hoist brackets to the module with a flat head screw driver.
21. Push the rail lever in the UP position on both sides of the module. See Illustration 1-14 for location of lever.

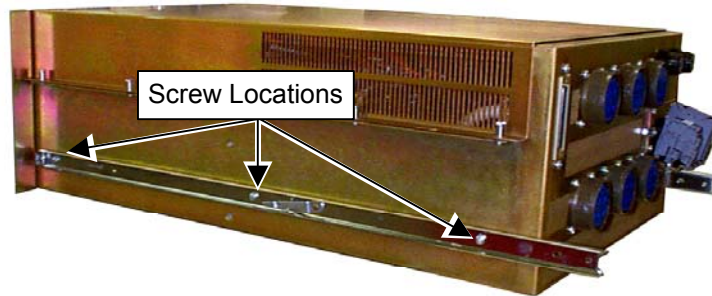


RAIL LEVER LOCATION
ILLUSTRATION 1-14

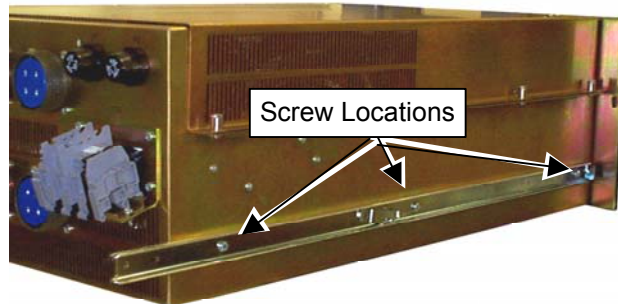
22. Slide the module out and remove it from the slide-rail that is attached to the cabinet.

1-4 SGA-PS Module Replacement

1. Remove the rails from the failed module and attach to the replacement module. See Illustration 1-15



Right Side



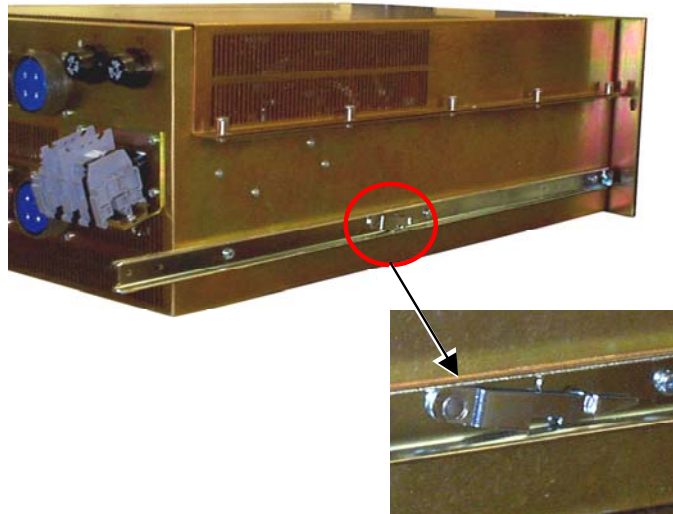
Left Side

ATTACHING RAILS TO SGA-PS ILLUSTRATION 1-15

2. Fully extend the SGA-PS slide-rails from the cabinet.
3. Install the SGA-PS into the cabinet by inserting the module into the mating half of the rail assemblies.

1-4 SGA-PS Module Replacement (Continued)

4. Place the slide-rail lever in the DOWN Position. See Illustration 1-16.

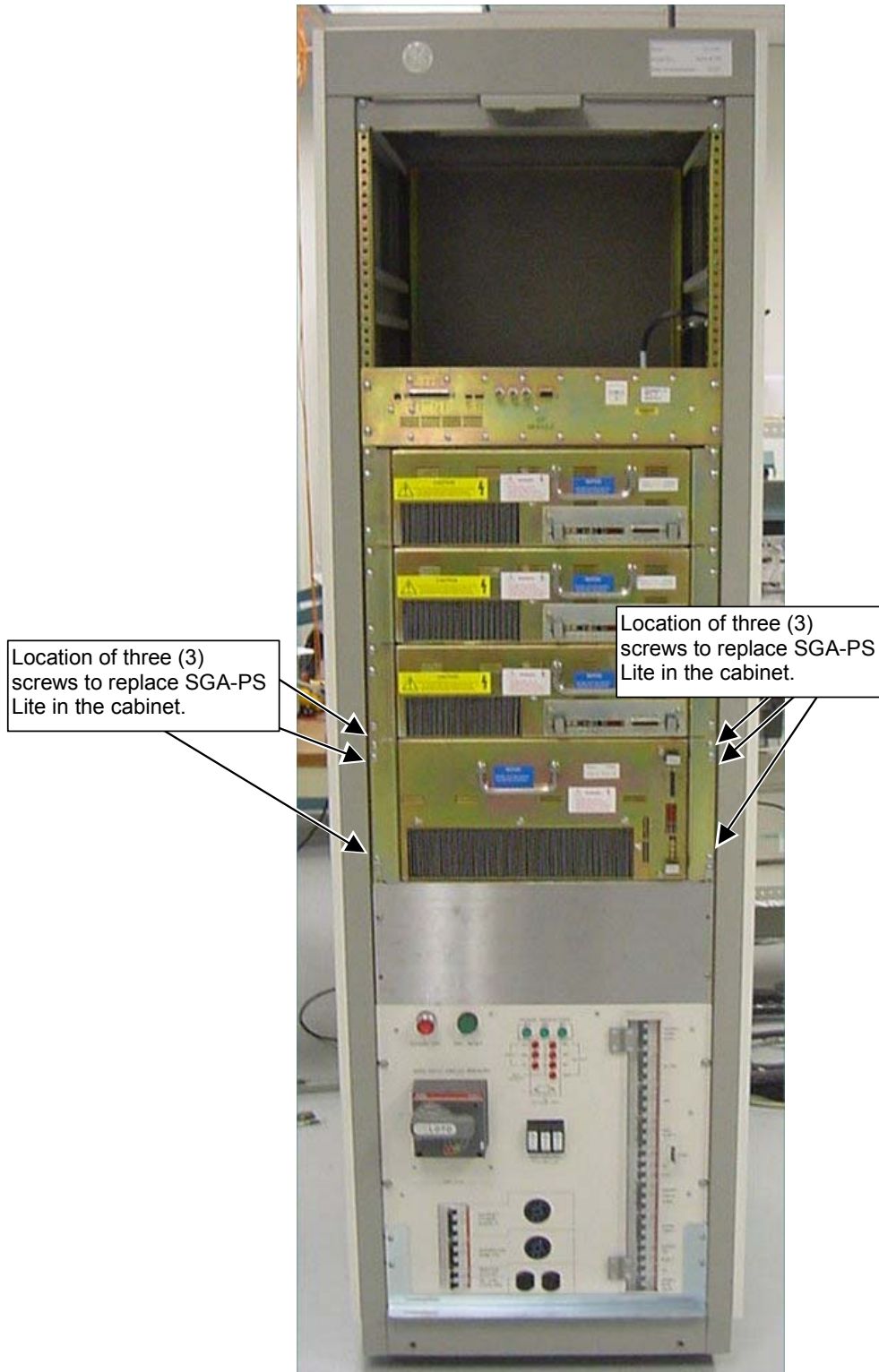


RAIL LEVER LOCATION
ILLUSTRATION 1-16

5. Push the SGA-PS assembly all the way into the cabinet.

1-4 SGA-PS Module Replacement (Continued)

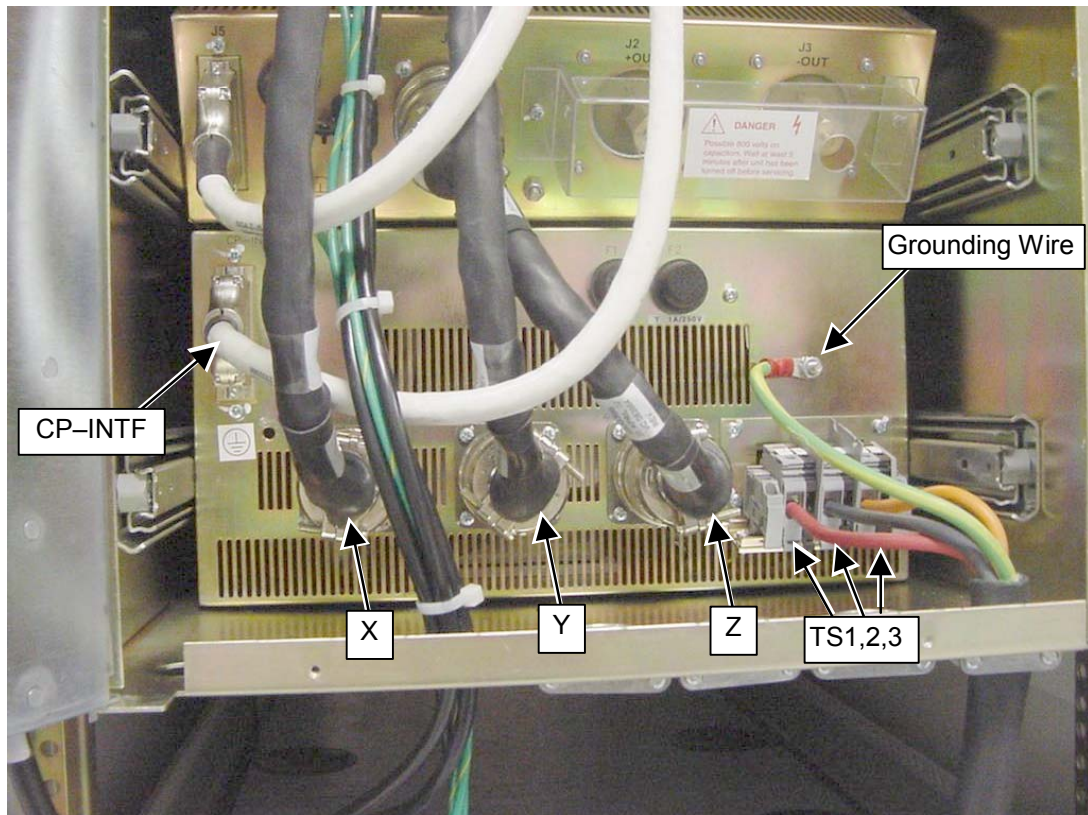
- Secure the assembly to the front panel by replacing the six (6) Phillips-head screws and washers from the SGA-PS front panel. See Illustration 1-17.



SCREW LOCATION ON SGA-PS FRONT PANEL
ILLUSTRATION 1-17

1-4 SGA-PS Module Replacement (Continued)

7. Replace the four pin connectors (J1, J2, J3, J4, J5 & J6) at the rear of the SGA-PS Module. See Illustration 1-18.
8. Replace the data cable (J7) at the rear of the SGA-PS Module. See Illustration 1-18.
9. Connect the TS1 terminal. See Illustration 1-18.



SGA POWER SUPPLY --REAR CONNECTIONS
ILLUSTRATION 1-18

10. Remove the power lock out tag out to the ACGD Cabinet and restore power.

1-5 Functional Tests Required

Power up the cabinet and set up for a scan to verify gradient driver comes up to Ready.

REVISION HISTORY

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