

POWER CONTROL MODULE
 INSTALLATION
 TERA
 8510/A GRAPHIC COMPUTER SYSTEM

THIS FIELD-LEVEL MODIFICATION IS APPLICABLE TO CERTAIN 8510 AND 8515 UNITS. THE SERIAL NUMBER OF THE AFFECTED UNIT IS LISTED ON THE FACTORY ORDER THAT IS ATTACHED TO THE OUTSIDE OF THE POWER CONTROL MODULE ASSEMBLY SHIPPING CONTAINER.

THESE UNITS HAVE SWITCH-MODE TYPE POWER SUPPLIES, WHICH, UNDER CERTAIN POWER-ON CONDITIONS, MAY CAUSE THE AC POWER ON/BOOT SWITCH TO BECOME OVERSTRESSED. THIS MODIFICATION CONSISTS OF INSTALLING A TRIAC- BASED AC POWER CONTROL MODULE IN THE 8510 AND 8515 UNITS, TO ELIMINATE THE POSSIBILITY OF OVERSTRESSING THE AC POWER ON/BOOT SWITCHES. NO MODIFICATIONS TO THE 8512 UNITS ARE REQUIRED.

POWER CONTROL MODULE FIELD KIT ITEMS	ASSY. NO. 95-0006-001 QTY	TERAK PART NO.
1. POWER CONTROL MODULE	1 EA.	91-0054-001
2. STRAP, NYLON	2 EA.	43-0009-001
3. INSTRUCTIONS, PCM INSTALLATION	1 EA.	50-0012-001

INSTALLATION PROCEDURE

1. DISCONNECT AC POWER FROM THE UNITS; REMOVE THE POWER CORDS.
2. DISCONNECT THE CABLING BETWEEN THE UNITS.
3. UNSTACK THE UNITS SO THAT THE 8510 AND 8515 COVERS CAN BE REMOVED. SLIDE THE UNITS PAST THE EDGE OF THE TABLE OR DESK TOP UNTIL THE BOTTOM-FRONT RETAINING SCREWS ARE ACCESSIBLE. SEE FIGURE 1 FOR RETAINING SCREW LOCATIONS. (A PHILLIPS HEAD SCREWDRIVER IS REQUIRED.)
4. LOOSEN THE BOTTOM-FRONT RETAINING SCREWS, (IT ISN'T NECESSARY TO REMOVE THEM).
5. REMOVE THE REAR-SIDE RETAINING SCREWS.
6. REMOVE THE INTEGRAL COVER-FRONT PANEL BY SLIDING IT FORWARD UNTIL IT IS CLEAR OF THE UNIT CHASSIS. SET THE COVER ASIDE.

7. WITH THE POWER CONTROL MODULE ORIENTED AS SHOWN IN FIGURE 2, CAREFULLY ROUTE THE MODULE CONNECTORS THROUGH THE OPENING BETWEEN THE FAN HOUSING AND THE POWER SUPPLY BOARD. THE WIRES SHOULD BE ROUTED BELOW THE FAN.

NOTE: THE CONNECTORS ARE SHOWN OUTSIDE OF THE CHASSIS, IN FIGURE 2, FOR IDENTIFICATION PURPOSES ONLY.

8. POSITION THE MODULE AGAINST THE FAN HOUSING, AS SHOWN IN FIGURE 2. THE MODULE WILL FIT INTO THE VOLUME BETWEEN THE FAN HOUSING AND CHASSIS. WHILE HOLDING THE MODULE AGAINST THE HOUSING, THREAD A CABLE CLAMP THROUGH A PAIR OF ALIGNED HOLES; SLIP THE END OF THE CLAMP THROUGH ITS LOCKING TAB AND PULL THE END UNTIL THE MODULE IS HELD TIGHTLY AGAINST THE HOUSING. REPEAT THIS PROCEDURE WITH THE OTHER PAIR OF ALIGNED HOLES.

10. REFERRING TO FIGURE 3, DISCONNECT THE PLUG WITH A BROWN, A BLUE, AND A GREEN-YELLOW WIRE FROM THE POWER SUPPLY BOARD. CONNECT P2 OF THE POWER CONTROL MODULE TO THIS FREED PLUG. CONNECT P3, OF THE MODULE, TO THE POWER SUPPLY BOARD CONNECTOR JUST VACATED. CONNECT P1, OF THE MODULE, TO THE VACANT CONNECTOR AT THE TOP OF THE POWER SUPPLY BOARD.

NOTE: PLUGS P1 & P3, OF THE MODULE, HAVE DIFFERENT STYLED PINS AND CANNOT BE MISTAKENLY PLUGGED INTO THE WRONG BOARD CONNECTOR.

11. ARRANGE THE NEW WIRING SO THAT IT DOES NOT INTERFERE WITH THE ROTATION OF THE FAN BLADES . (THE CABLES MAY BE ROUTED UNDERNEATH THE FAN HOUSING.)

12. REPLACE THE UNIT COVER(S).

13. RE-CONNECT THE CABLES BETWEEN THE UNITS AND THE AC POWER CORDS.

14. TURN ON SYSTEM AC POWER. VERIFY THAT THE FAN BLADES ARE ROTATING BY SENSING THE AIRFLOW PAST THE FAN FILTER ON THE REAR OF THE UNIT.

15. LOAD AND BOOTSTRAP A SYSTEM DISK TO VERIFY THAT THE SYSTEM IS FUNCTIONING PROPERLY.

COVER RETAINING
SCREWS SIDE

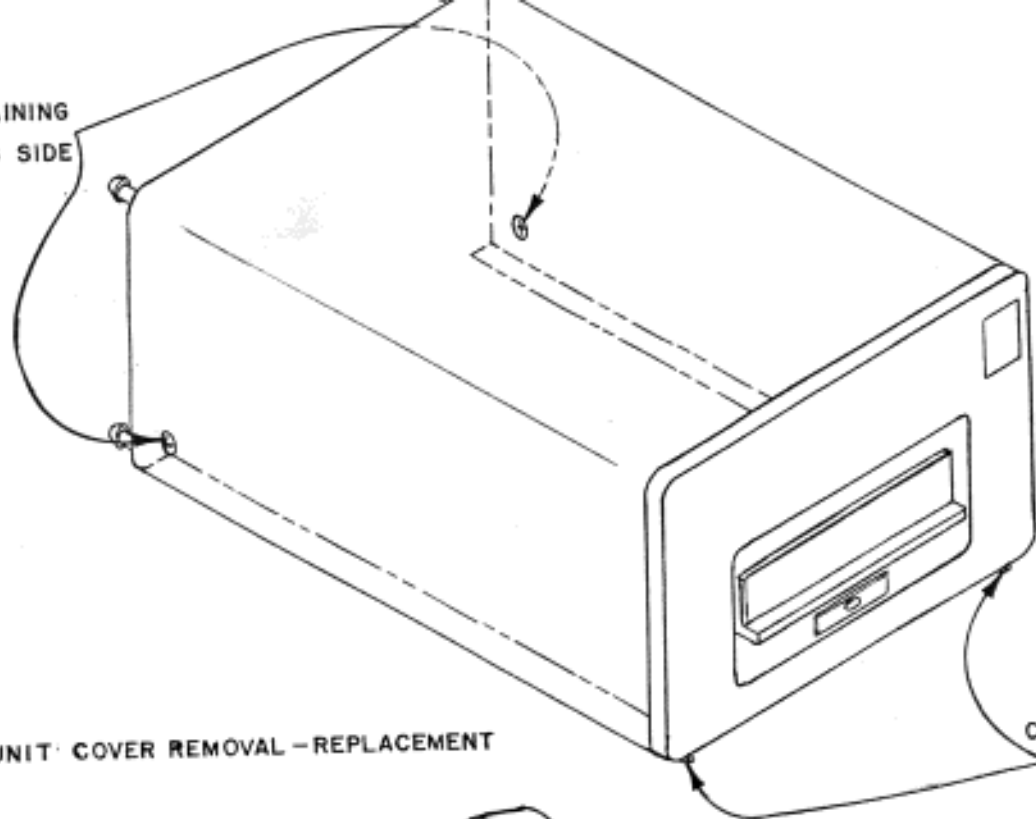


FIGURE 1. UNIT COVER REMOVAL-REPLACEMENT

COVER RETAINING
SCREWS BOTTOM

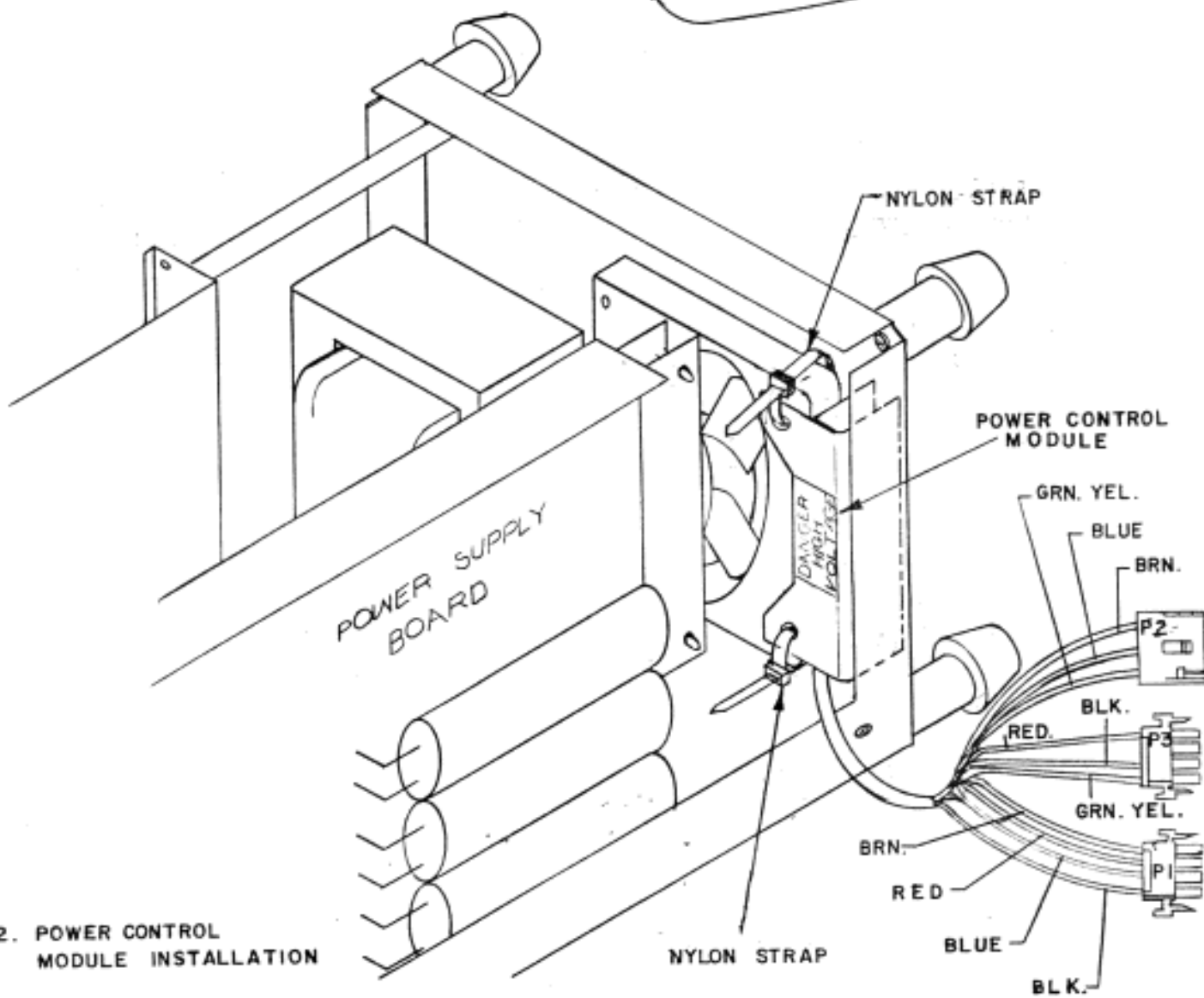


FIGURE 2. POWER CONTROL
MODULE INSTALLATION

NYLON STRAP

POWER CONTROL
MODULE

POWER SUPPLY
BOARD

GRN. YEL.

BLUE

BRN.

P2

BLK.

RED

P3

GRN. YEL.

BRN.

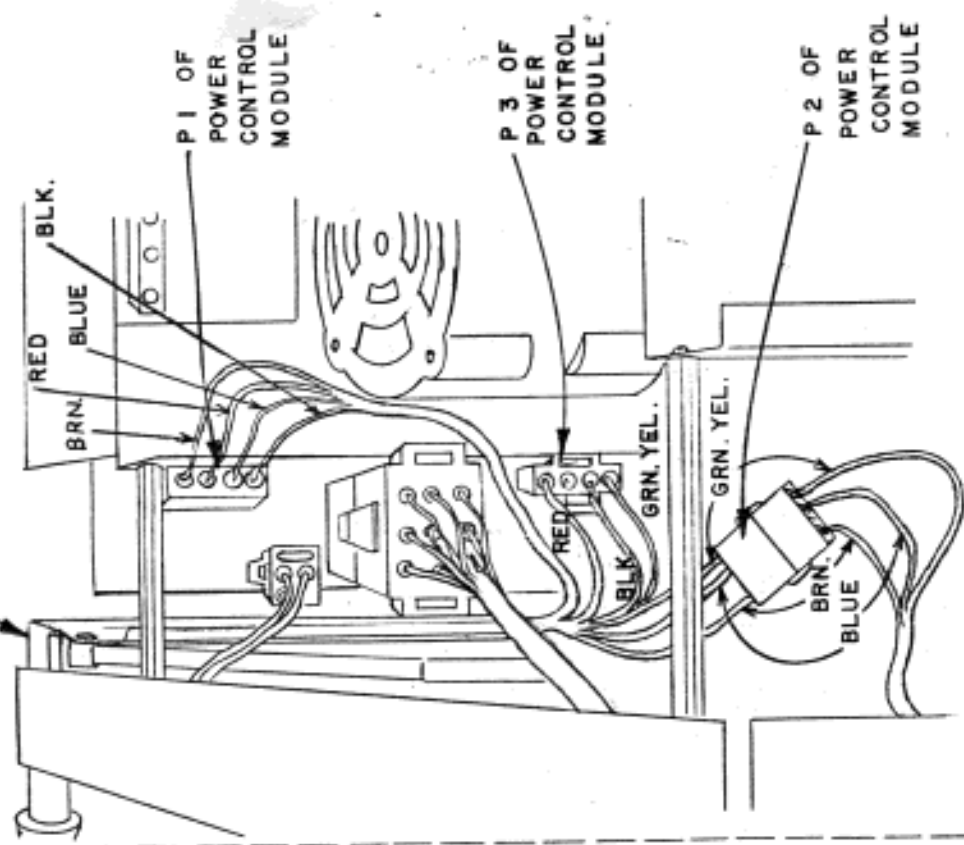
RED

BLUE

BLK.

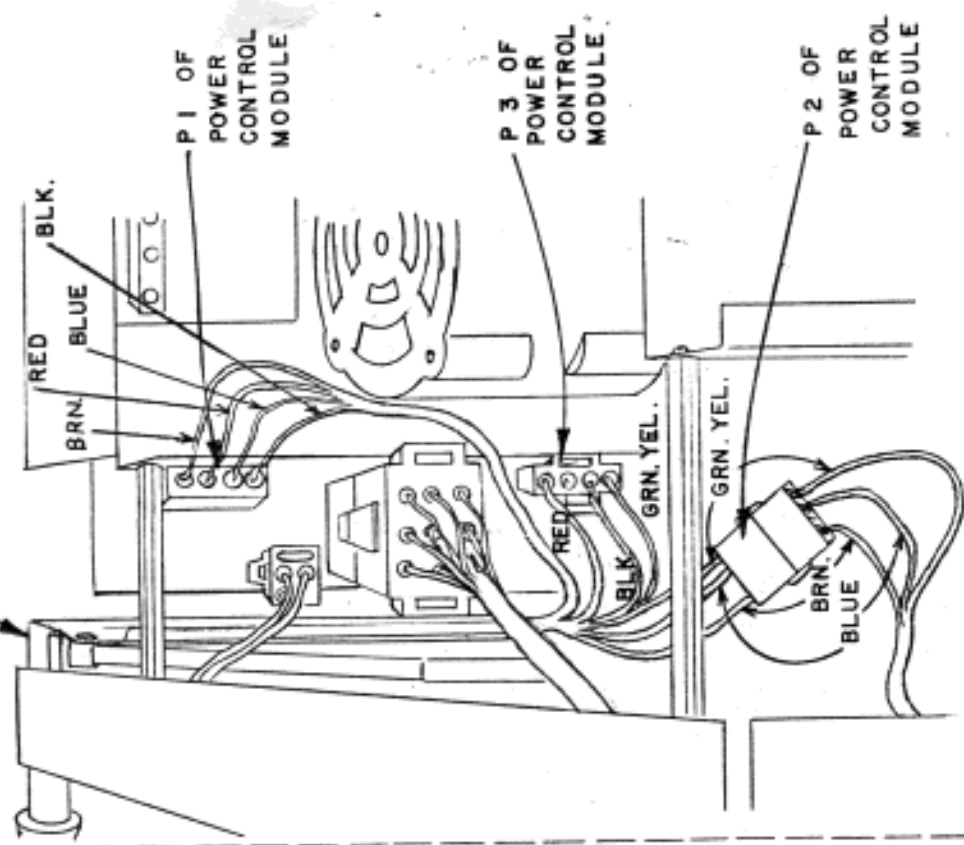
NYLON STRAP

POWER CONTROL MODULE INSTALLED



A. INTERCONNECTIONS BEFORE POWER CONTROL MODULE INSTALLATION

POWER CONTROL MODULE INSTALLED



B. INTERCONNECTIONS AFTER POWER CONTROL MODULE INSTALLATION

FIGURE 3. POWER CONTROL MODULE INTERCONNECTIONS