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 ASSY. NO. 95-006-001
ITEMS 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.


10. REFERRING TO FIGURE 3, DISCONNECT THE PLUG WITH A BROWN, A BLUE, AND A GREEN-YELLOW WIRE FROM TXE 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).


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.