BASE BOARD PLUG-IN POWER SUPPLY
MYCRO 383 MULTI-POINT DISPLAY STATION

INSTRUCTION INVOLVED

MYCRO 383 Multi-Point Display Station, Installation and Service Instruction
SD383, Issue 1

SUBJECT

Model 383_A Base Board plug-in power supply enhancement

DISCUSSION

Starting in August, 1992, all MYCRO 383_A Multi-Point Display Stations will be
produced with a revised Base Board. This board includes a plug-in power
supply and minor circuit changes. Figure 1 shows the Base Board.

These enhancements improve serviceability and do not affect functionality. A
revised Display Station is fully compatible with a previous Display Station.

The plug-in power supply accepts a wide range of AC input voltages. There-
fore, Model 383 E will no longer be offered; it will be merged with Model
383_A. Models 383_B and 383_C will continue to use the soldered-in power
supply. Refer to the following model designation list.

MODEL DESIGNATION CHANGES

Sample Model Number __________________________________ 383 V A 2 1 N 1 N

Model Series ___________________________________________

Type ____________________________________________

B - Basic
V - With Voltage Expander Board

Power Requirement
A - 120/240 Vac (85 to 264 Vac) 47 to 63 Hz
B - 24 Vac (+10%, -15%) 47 to 63 Hz
C - 24 Vdc (+20%, -15%)
E - No longer offered; merged with ‘A’

The remaining model designations are as before.
PLUG-IN POWER SUPPLY SERVICING

This section supplements the troubleshooting and assembly replacement information in section 6, Maintenance.

A plug-in power supply failure may be indicated by one or more of the following symptoms:

- All Display Assembly displays are blank
- Fuse F1 blown
- E217 error code displayed
- No +26 Vdc at case rear terminal B5
- No +5 Vdc across VR7 (see procedure below)

A. +5 VDC TEST PROCEDURE

1. Temporarily loosen or remove the Display Assembly; see section 6.5.1.

2. Refer to Figure 1 and locate VR7 near the card ejector tab. Connect a digital voltmeter across VR7 as follows:
   Voltmeter positive lead - To banded end of VR7
   Voltmeter negative lead - To unbanded end of VR7

3. With power applied to station, voltmeter should read 4.75 to 5.25 Vdc.

   If incorrect voltage is present, replace Power Supply and retest.

   If correct voltage is present yet other symptoms listed above persist, replace Power Supply and retest. If replacing the Power Supply fails to remove the symptom(s), refer to the Troubleshooting section.

B. PLUG-IN POWER SUPPLY REPLACEMENT

REMOVAL:

1. Refer to section 6.5 Assembly Replacement and remove the Display Assembly, Base Board, and Expander Board.

2. Remove the Power Supply Securing Screw. Lay the Base Board on a static dissipative workmat Power Supply side up.

3. At the top of the Base Board, carefully insert a small diameter screwdriver between the Base Board and the Power Supply.

   Gently lift the screwdriver handle to raise the Power Supply approximately 1/4" above the Base Board.

   IMPORTANT

   Do not lift the power supply more than 3/8" to avoid damaging the mounting pins.

   - 2 -
CAUTION
85-264 VAC

POWER FUSE
SEE TABLE

J5 REAR TERMINAL CONNECTOR

POWER SUPPLY

J1 EXPANDER BOARD CONNECTOR

J2 NO. 3 INPUT BOARD CONNECTOR

J3 LINK INTERFACE BOARD CONNECTOR

CARD EJECTOR TAB - RED

14755-123

SUPPLY VOLTAGE | RATING/TYPE | PART NO.
--- | --- | ---
120/240 VAC | 0.5A 3AG, SLO-BLO | 7447-54
24 VDC | 2A, 3AG, SLO-BLO | 7447-123

SERIAL NUMBER LABEL (UNDER CABLE)

J4 DISPLAY ASSEMBLY CONNECTOR

ASSEMBLY NUMBER LABEL

SECURING SCREW

POWER SUPPLY

NOTES:
EEPROM (ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY)
MPU (MULTI-PROCESSING UNIT)
UVEEPROM (ULTRAVIOLET ERASABLE ELECTRICALLY PROGRAMMABLE READ-ONLY MEMORY)

LOCKOUT

LOCKOUT SWITCHES

FIGURE 1 Display Station Base Board with Plug-in Power Supply
4. At the bottom of the Base Board, carefully insert a small diameter screwdriver between the Base Board and the Power Supply, between the components along the edge of the Board.

Gently lift the screwdriver handle to raise the Power Supply approximately 1/4" above the Base Board.

5. Lift the Power Supply from the Base Board pins.

INSTALLATION:

1. Note the arrangement of Base Board pins and Power Supply sockets for correct Power Supply orientation. Be sure all pins are straight.

2. At the top edge of the Base Board, carefully align the top-most pins in the two headers with the corresponding sockets in the Power Supply. Then carefully lower the Power Supply onto the remaining pins.

Check the alignment at the bottom of the Base Board; adjust Power Supply placement as necessary.

3. Press the Power Supply onto the Base Board pins.

4. Install the Securing Screw.

5. Refer again to section 6.5 to reassemble the station.

PART NUMBER CHANGES

The following part numbers pertain to the updated Base Board and amend Parts List Drawing 16040-10PL dated 11/88.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>17a</td>
<td>16041-1</td>
<td>Base Board with plug-in power supply (120/240 Vac)</td>
</tr>
<tr>
<td>17e</td>
<td>16041-51</td>
<td>Base Board with plug-in power supply and with Voltage Input Board (120/240 Vac)</td>
</tr>
<tr>
<td>--</td>
<td>14755-123</td>
<td>Plug-In Power Supply (120/240 Vac)</td>
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