TEST EQUIPMENT REQUIRED

1. Multimeter 260 Simpson or equivalent. (2 Required)
2. Dual resistance load bank.
3. Low voltage power supply.
4. 10 ohms 25 watt resistor wire wound.

TEST PROCEDURE

Visually inspect all mechanical and electrical connections, wiring and hardware.

SCREEN OVERLOAD RELAY K2

Continuity Checks

1. Connect multimeter, set to RX1 Range on J1 terminals #15 & #16 (meter must read infinity). Disconnect ohmmeter and reconnect on J1 terminals #17 & #18 (meter must read infinity).

2. Connect a ground or neutral wire to terminal #19 of J1. Add #19, #14, and #10, add jumper #12 to #13, also add jumper #11 to #8. Connect a jumper from #9 to #7 and #3.

3. Remove red wire (rectifier stack) from terminal block #2. Connect a low voltage power supply, in series with a limiting resistor of approximately 10 ohms 25 watts. Use multimeter with a setting of 500 mills D.C. Connect the red test lead wire to the limiting resistor, the black test lead to terminal block #2, the negative side of the L.V.P.S. to ground. Close L.V.P.S. power switch, and adjust voltage control for approximately 3 volts, at 260 mills, turn off L.V.P.S. with the multimeter set on RX1 resistance range, connect the test leads to terminals #15 & #16 turn on L.V.P.S. The meter must read a full scale deflection 0 ohms, turn off L.V.P.S., and the meter must read infinity. Disconnect multimeter.

4. Reconnect multimeter to terminals #17 & #18 of J1, close low volt power supply switch, and observe the ohmmeter must read, full scale deflection, (0 ohms). Open L.V.P.S. switch, and the meter must read infinity. Disconnect L.V.P.S. from AP140 reconnect red wire to TB3. This completes continuity checks.

5. Connect a 3 phase source of power, thru a fused master switch, to J1 terminal #1 to phase #1. Connect from phase #2 to terminal #2. Connect phase #3 to terminal #3.

6. Connect load fixture 140 ma to J3, and the 060 ma portion to J2. Connect load fixture ground to chassis. Close master switch, and observe that relay K1 energizes, applying three

phase, 208 volts AC, to the primary of high voltage transformer. The blower motor must be operating.

Power Checks

1. Disconnect ohmmeter, and set on 0-5000 volts D.C. range. Connect negative lead of the meter, to J1 terminal #19, the positive meter lead to J3, close master switch, blower motor must run when master switch is closed. Voltage reading of approximately 1KV must be observed. Open master switch.

2. Disconnect the multimeter positive lead from J3. Change the multimeter volt D.C. range scale to 0-1000 volts, reconnect positive meter lead to J2 and observe approximately +700 VDC. Blower motor must run when master switch is closed. Turn off master switch, and disconnect multimeter.

Current Checks

1. Change meter range switch to 500 ma, connect positive wire of the multimeter to J3, and the negative to the wire wound resistance load bank. Close master switch and observe a meter reading of approximately 140 ma. Turn master switch off. Disconnect meter leads.

2. Change meter range switch to 100 ma, connect the multimeter positive lead to J2 and the negative meter lead to the smaller load resistance bank. Close master switch, and observe the multimeter current reading of approximately 60 ma. Turn off master switch. Disconnect jumper from J1, power cables and meter leads. This concludes the electrical checkout of the screen supply unit.

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMAR NECK NEW YORK

S1326
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
1/30/74	Ø	2		ORIGINAL RELEASE FOR PRODUCTION	

TMC FORM MLR-1 2-65—AINS.