TMC SPECIFICATION				NO. S 1323
REV: Ø				
COMPILED: B.G.	CHECKED: B.L.	APPD:		SHEET OF
TITLE: AV-1080 POWER SUPPLY				

AV-1080 POWER SUPPLY

DATE 12-03-73	TMC SPECIFICATION NO. S 1323	
SHEET 1 OF 3		
B.G. COMPILED / CHECKED	TITLE: AV-1080 POWER SUPPLY	
APPROVED		

Overload relay test, (connect 15 ohm 25 watt pot in series (+) terminal of auxiliary power supply, as limiter resistor.

I- Connect 7.6 volt D.C. supply, to test overload relays K1 & K2 & K3.
Connect positive 7.6 volt to terminal # 1 of TB2.
Connect negative to pin # 11 of J1 connector.
Adjust pot R1 to open and close relay K1 current range approx. 240 MA - 495 MA.
(Set at MA)
Connect ohmmeter set in RX1 ohm scale J1 pin # 10 and the oth r lead to J1 pin # 31.
Observe continuity as relay closes.
Remove leads from ohmmeter and reconnect ohmmeter to J1 pin # 3 and pin # 9, and observe continuity as the R1 pot is varri d and relay K1 relay activates.

II- Connect 7.6 volt D.C. supply, positive to TB2 terminal # 2.
Connect the other polarity to J1 pin # 11.
Adjust R2 pot and observe K2 relay activating.
Current range approx. 330 MA - 495 MA.
(Set at MA) Connect ohmmeter J1 pin # 10 and pin # 32, observe when the K2 relay closed, you will observe continuity on the ohmmeter, set resistence sensitivety to RX1.
Reconnect ohmmeter to pin # 8 and pin # 9.
Observe continuity at K2 activates.

III- Connect 7.6 volt D.C. supply positive to TB2 terminal # 3 and the negative supply to J1 pin # 11, adjust pot marked R3 to activate K3 relay. Current range approx. 330 MA - 500 MA.
(Set at MA)
Connect ohmmeter with meter set at RX1 to J1 pin # 10 and pin # 33, observe continuity on meter as K3 relay activat s.
Reconnect ohmmeter J1 pin # 8 and pin # 9 observe continuity as relay K3 closes.

A. C. Control Test

Place jumpers on J1 socket as follows:

1- Pin # 1 jumped to pin # 19.

2- Pin # 1 to AC voltmeter set at 220 volt A.C. Range.

3- Pin # 3 to other polarity of above voltmeter

4- This reading approx. 120 volts. Connect AC single phasesource 220 volts.

5- To J1 pin # 2 and pin # 4 (single phase input) This above overload relay test, (connect 15 ohm 25 watt pot in series (+) terminal of auxiliary pow r supply, as limiter r sistor.

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AC single phase 220 Volt source should be fused, and a switch for control of power.

6- When the AC supply is energized a contactor K6 closes and a second timer closed K5 contactor, thereby a input 220 volt 3 phase AC source of power is applied to the rectifiers, There a step up transformer, with equipped individual windings 6.25 K.V. and 2.3 K.V. and 1 K.V. The K6 contactor open side receives the 220 Volt AC, 3 phase power source. For the no load test, the 3 phase line must be fused with 15 amperes if power supply is normal, shut off 3 phase power and change fuses to 30 amperes.
Shut off both A.C. supply sources, and the loads to the power rectifier outputs, with a D.C. ammeter in series with the load leads.

I- D.C. ammeter set on 10 amp range, connected to the D.C. output 6.25 K.V. reading should be approx. 1.4 amperes.

II- D.C. ammeter set at 500 MA range connected to the D.C. output 2.30 K.V. reading should be approx 495 MA.

III- D.C. ammeter set at 500 MA range connected to the D.C. output 1. K. V. reading should be approx. 115 MA.

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DATE 12-3-73	TMC SPECIFICATION NO. S 1323	
SHEET 3 OF 3		
B.S. COMPILED / CHECKED	TITLE: POWER SUPPLY	
APPROVED	MODEL # AV-1080	

SERIAL _____ MODEL AV-1080

MFG. NUMBER	D.C. OUTPUTS				OVERLOAD						CONTACTOR		TIMER	JI PIN 1 & 3 A.C. VOLTS	MECHANICAL
	VOLT	CURR	VOLT	CURR	VOLT	CURR	K1 HI	K1 LOW	K2 HI	K2 LOW	K3 HI	K3 LOW	K5	K6			

DATE _____ TESTER _____

COMMENTS _____

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REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMAR NECK NEW YORK

S1323
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
12/20/23	Ø			ORIGINAL RELEASE FOR PRODUCTION	

TMC FORM MLR-1 2-65—AINS.