



- NOTES
- 1) CAUTION: SHOCK HAZARD!!
THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.
 - 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL. CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
 - 3) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.
 - 4) CIRCUIT GROUND ∇ INPUT GROUND ∇ CHASSIS GROUND ∇

DESIGNATOR	DESC.	PART NO.
AP1	500 ohm TRIMPOT	71-501-02
A D27, 28	1N5393	21A593-01
D1-6	1N4002	21A402-01
D7-12, 15, 16, 18, 20, 21,		
D4-26, 29	1N914	21A914-01
D14	1N4747	21A47-01
D17, 19, 22, 23	1N3070	21A370-01
D30	1N4756	21A4756-01
D32	1N5347	21-547-01
D33	1N5353	21-533-01
D34, 35	1N4745	21A145-01
F1	10A 125V S3 FUSE	23-310-02
F2	ABC15A 125V FUSE	23-315-01
F3, 4	5A 250V S3 FUSE	23-300-05
F5	1/8A S3 FUSE	23-313-05
IC1	78M15	37-715-01
IC2	79M15	37-915-01
IC3	TLD-78CP	37-072-01
IC4	NE5532	37-532-01
K1	T-90 RELAY	82-090-01
L1	2.5uH	94-142-01
DC1	VTL-SC7 VACTROL	66-100-01
Q1, 8, 11,		
Q2, 14	MP5-A-06	96-006-01
Q3, 13	2N3415	96-515-01
Q4-7	2N2440	96-340-01
Q9	HJ15022	96-122-01
Q10	MP5-A-06	96-006-01
Q11	2N3408	96-340-01
Q12	MP5-A-35	96-035-01
Q15-18	HJ15023	96-123-01
TS1	120C THERM SV	88-252-01
TS2	60C ND THERM SV	88-251-01

DESIGNATOR	DESC.	PART NO.
J1-8, 13-19, 25-27, 30, 31,		
J9, 10	36TP 25'FT T3	17-826-01
J11	#6 GROUND LUG	17-500-01
J12	AC LINE CONN	17-604-01
J20-22	10 PIN, 156 HDR	17-310-10
J23, 24,	.187 ST. PC TAB	17-894-01
J32	CLIFF T/S JACK	39-116-01
	MP50156-2-D	17-309-02

TEST POINT CHART		
TP	VAC RMS	VDC
1	.883V	0
2	1.0V	5mV \pm 5mV
3	2.7V	35mV \pm 50mV
4	0	7.5V \pm 5V
5	0	7.5V \pm 5V
6	40V	15V \pm 2V
7	40V	15V \pm 2V
8	2Vp-p RIPPLE	71V \pm 2V
9	2Vp-p RIPPLE	71V \pm 2V
10	51Vp-p RIPPLE	17V \pm 2V
11	51Vp-p RIPPLE	17V \pm 2V
12	0	10V \pm 5mV
13	0	80V \pm 20mV
14	39V	10V \pm 5mV
15	(TS1 OPEN)	10V \pm 2V
16	(TS1 CLOSED)	26V \pm 2V
17	51Vp-p RIPPLE	15V \pm 5V
18	51Vp-p RIPPLE	15V \pm 5V
MEASUREMENT CONDITIONS: .883 Vrms @ 1 KHz, LIMITER OFF, 120 Vdc, NO LOAD.		

CAUTION:
THIS SCHEMATIC IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.
TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL. DO NOT PERFORM ANY SERVICING BEYOND
THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

C		B	
8/26/91		SWR	DP
REV		DATE	BY
DATE		CHK'D	DESCRIPTION
SIGNATURES:		DATE:	
DRAWING: DAP		02/21/91	
CHK'D: DAP		02/08/91	
APPR: DAP		03/08/91	
ORIGINAL ISSUED:		PROJECT NAME:	
PLOT DATE: 08/26/91		DRAWING NAME:	
PLOT TIME: 10:54:28		DRAWING NO. 07S423-01	
FILE NAME: 7542301A		SCALE: NONE	
		SHEET: 1 OF 1	



