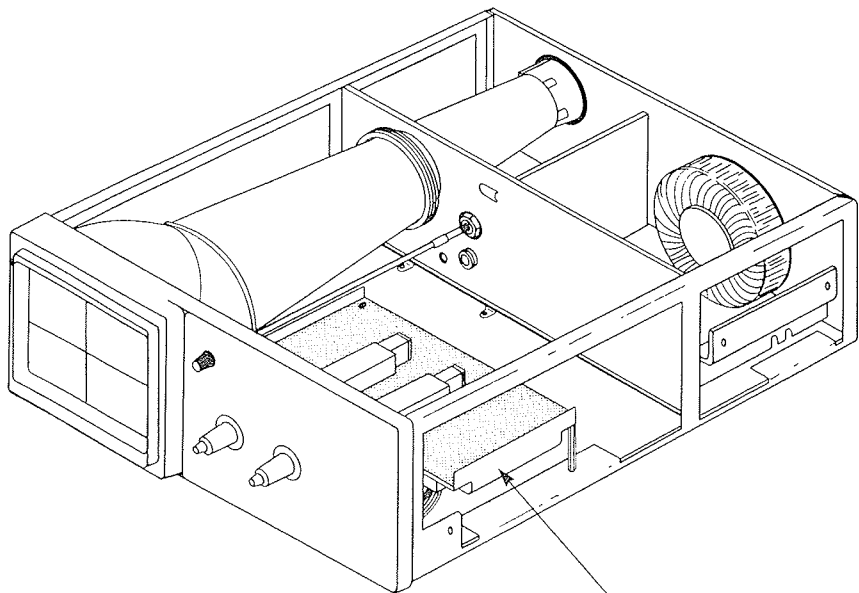


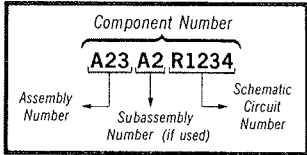
Figure 9-5. A2—Attenuator board.



A2 - ATTENUATOR BOARD

 Static Sensitive Devices
See Maintenance Section

COMPONENT NUMBER EXAMPLE



Chassis-mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts List.

A2—ATTENUATOR/TIMEBASE BOARD

CIRCUIT NUMBER	SCHEM NUMBER	CIRCUIT NUMBER	SCHEM NUMBER	CIRCUIT NUMBER	SCHEM NUMBER	CIRCUIT NUMBER	SCHEM NUMBER
AT1	1	CR755	5	R31	1	R733	5
AT1	6	CR758	5	R32	1	R734	5
AT51	1	CR761	5	R33	1	R735	5
AT51	6	CR762	5	R35	1	R736	5
		CR769	5	R36	1	R737	5
C6	1	CR773	5	R37	1	R738	5
C7	1	CR774	5	R38	1	R739	5
C8	1			R39	1	R740	5
C13	1	E90	1	R41	1	R741	5
C30	1	E91	1	R42	1	R742	5
C31	1	E92	1	R53	1	R743	5
C32	1	E93	1	R53	6	R744	5
C33	1			R55	1	R745	5
C35	1	J7	1	R56	1	R746	5
C38	1	J7	5	R57	1	R747	5
C56	1	J7	6	R58	1	R748	5
C57	1	J29	1	R59	1	R749	5
C58	1	J30	1	R63	1	R750	5
C63	1	J79	1	R64	1	R751	5
C80	1	J80	1	R65	1	R752	5
C81	1	J90	1	R72	1	R753	5
C82	1	J701	4	R73	1	R754	5
C83	1	J701	5	R78	1	R755	5
C85	1	J755	5	R79	1	R756	5
C88	1			R80	1	R757	5
C93	1	L93	1	R81	1	R758	5
C94	1	L96	1	R82	1	R759	5
C95	1	L712	5	R83	1	R760	5
C96	1	L713	5	R85	1	R761	5
C97	1			R86	1	R762	5
C98	1	Q13	1	R87	1	R763	5
C701	5	Q63	1	R88	1	R765	5
C702	5	Q701	5	R91	1	R766	5
C703	5	Q702	5	R701	5	R767	5
C704	5	Q704	5	R702	5	R768	5
C705	5	Q706	5	R703	5	R769	5
C706	5	Q732	5	R704	5	R770	5
C707	5	Q736	5	R705	5	R771	5
C708	5	Q737	5	R706	5	R772	5
C709	5	Q747	5	R707	5	R773	5
C710	5	Q748	5	R708	5	R774	5
C712	5	Q750	5	R709	5	R775	5
C713	5	Q759	5	R710	5	R777	5
C714	5	Q760	5	R711	5	R782	5
C715	5			R712	5		
C722	5	R3	1	R713	5	S10	1
C723	5	R3	6	R714	5	S60	1
C724	5	R5	1	R715	5	S701	5
C733	5	R6	1	R716	5		
C746	5	R7	1	R717	5	U30	1
C755	5	R8	1	R718	5	U80	1
C767	5	R9	1	R719	5	U83	1
C773	5	R13	1	R720	5	U715	5
C774	5	R14	1	R721	5	U745	5
		R15	1	R722	5	U755	5
CR7	1	R22	1	R723	5		
CR57	1	R23	1	R730	5	W711	5
CR747	5	R29	1	R731	5		
CR748	5	R30	1	R732	5		

TEST WAVEFORM AND VOLTAGE SETUPS

WAVEFORM MEASUREMENTS

On the left-hand pages preceding the schematic diagrams are test waveform illustrations that are intended to aid in troubleshooting the instrument. To test the instrument for these waveforms, make the initial control settings as follows:

Vertical (Both Channels)

POSITION	Midrange
MODE	CH 1, NORM
VOLTS/DIV	10 mV
VOLTS/DIV Var	In CAL detent
Magnification	X1 (CAL knob in)
Input Coupling	GND

Horizontal

POSITION (both)	Midrange
MODE	X1
SEC/DIV	0.5 ms
SEC/DIV Var	In CAL detent

Trigger

SOURCE	VERT MODE
COUPLING	DC
MODE	P-P AUTO
SLOPE	Positive
HOLDOFF	Min

DC VOLTAGE MEASUREMENTS

Typical voltage measurements located on the schematic diagrams were obtained with the instrument operating under the conditions specified in the Waveform Measurements setup. Control-setting changes required for specific voltages are indicated on each waveform page. Measurements are referenced to the chassis ground.

RECOMMENDED TEST EQUIPMENT

Test equipment in Table 4-1 in the Performance Check Procedure, Section 4, of this manual meets the required specifications for testing this instrument.

POWER SUPPLY ISOLATION PROCEDURE

Each regulated supply has numerous feed points to external loads through the instrument. Diagram 8, power distribution, is used in conjunction with the schematic diagrams to determine the service jumper or component that may be lifted to isolate loads from the power supply.

If a supply comes up after lifting one of the isolating jumpers, it is very probable that short exists in the circuitry

on that supply line. By lifting jumpers or other components in the supply line farther down the line, the circuit in which a short exists may be located.

Always set the POWER switch to OFF before soldering or unsoldering service jumpers or other components and before attempting to measure component resistance values.

OTHER PARTS								
CIRCUIT NUMBER	SCHEM NUMBER	SCHEM LOCATION	CIRCUIT NUMBER	SCHEM NUMBER	SCHEM LOCATION	CIRCUIT NUMBER	SCHEM NUMBER	SCHEM LOCATION
DL224	2	5K	J151	6	3K	R3	6	2K
J100	1	1B	J300	6	7M	R51	6	3K
J100	6	1K	J590	4	3M	R53	6	3K
J151	1	5B	R1	6	1K	T901	7	6B

