

TABLE OF CONTENTS

SECTION 1	SPECIFICATION	Page	SECTION 3	CIRCUIT DESCRIPTION (cont)	Page
	Introduction	1-1		Focus DC Restorer	3-13
	Vertical Deflection System	1-1		Beam Current Limit	3-14
	Probe Performance	1-3		Power Supply Shutdown Caused by	
	A and B Triggering	1-3		Excessive Beam Current	3-14
	Horizontal Deflection	1-4		CRT Control Circuits	3-14
	Calibrated Sweep Delay	1-4		Auto Focus Circuit	3-14
	X-Y	1-5		Calibrator	3-15
	CRT	1-5			
	Calibrator	1-6	SECTION 4	MAINTENANCE	
	Other Characteristics	1-6		Introduction	4-1
	Environmental Characteristics	1-6		Cover Removal and Reinstallation	4-1
SECTION 2	OPERATING INSTRUCTIONS			Cleaning	4-1
	General	2-1		Lubrication	4-2
	Preliminary Information	2-1		Visual Inspection	4-3
	Controls and Connections	2-1		Semiconductor Checks	4-3
	Front Panel	2-1		Recalibration	4-3
	Rear Panel	2-4		Troubleshooting	4-3
	Bottom Side	2-4		Introduction	4-3
SECTION 3	CIRCUIT DESCRIPTION			Troubleshooting Aids	4-3
	Introduction	3-1		Circuit Boards	4-3
	50 Ω Attenuator	3-1		Troubleshooting Equipment	4-5
	1 Megohm Buffer Amplifier	3-1		Troubleshooting Techniques	4-6
	50 Ω Overload Protection	3-1		Special Troubleshooting Information	4-7
	Vertical Preamplifier	3-1		Corrective Maintenance	4-11
	Signal Channel Switch	3-2		Obtaining Replacement Parts	4-11
	Internal Trigger Amplifier	3-2		Soldering Techniques	4-11
	Main Vertical Amplifier	3-2		Component Replacement	4-12
	Scale Factor Readout	3-3		Circuit Board Replacement	4-12
	Vertical Mode Control	3-3		Timing Board Removal	4-12
	Z Axis	3-3		Transformer Board Removal	4-13
	A Trigger Amplifier	3-3		Inverter Board Removal	4-14
	A EXT Trigger Identify	3-3		Semiconductor Replacement	4-14
	A Trigger Generator	3-4		Circuit Board Pins	4-14
	B Trigger Generator	3-4		End Lead Pin Connectors	4-15
	A and B Sweeps	3-4		Cathode Ray Tube Replacement	4-15
	Horizontal Amplifier	3-5		Repackaging for Shipment	4-15
	Horizontal Control	3-5		Interboard Comb Connection Locations	4-16
	Power Inverter/Regulator	3-6	SECTION 5	CALIBRATION	
	Line Filter	3-6		Introduction	5-1
	Line Input Circuit	3-6		TEKTRONIX Field Service	5-1
	Start Network	3-7		Using This Procedure	5-1
	Inverter	3-8		Test Equipment Required	5-1
	Inverter/Regulator	3-8		Special Calibration Fixtures	5-1
	Inverter Current Limiting Circuit	3-8		Calibration Equipment Alternatives	5-4
	Overvoltage Stop Circuit	3-8		Performance Check	5-4
	Line Stop Circuit and Surge Limiting	3-8		Calibration Procedure	5-8
	Procedure for Converting the 485 to		SECTION 6	RACKMOUNTING	
	DC Operation	3-9		Introduction	6-1
	Low Voltage Supplies	3-9		Rack Dimensions	6-1
	Power Supply Protection Circuit	3-10		Slide Out Tracks	6-1
	Stop Monostable	3-10		Mounting Procedure	6-1
	Balance Node	3-10		Alternate Rear Mounting Methods	6-2
	Overcurrent Protection	3-12		Removing or Installing the Instrument	6-2
	Low Line Voltage Protection	3-12		Slide Out Track Lubrication	6-2
	Sampling Period Timer and Over-		SECTION 7	ELECTRICAL PARTS LIST	
	Voltage Protection	3-12	SECTION 8	DIAGRAMS AND CIRCUIT BOARD	
	CRT Circuit	3-12		ILLUSTRATIONS	
	Filament Voltage	3-12	SECTION 9	MECHANICAL PARTS LIST	
	High Voltage Supplies	3-12		CHANGE INFORMATION	
	Anode Supply	3-12			
	Cathode Supply	3-12			
	Cathode Regulator	3-12			
	Grid DC Restorer	3-13			