



Table of Contents

Overview

Description	1-1
Applications	1-1
Conventions used in this Manual	1-2



Safety Information

Operator Safety	2-1
-----------------------	-----

Operation

Connecting the Probe to the Test Instrument	3-1
Connecting the Probe to the Test Circuit	3-1
Probe Input Loading	3-3
Grounding the Probe	3-4
Selecting the Proper Range	3-5
Operation with LeCroy Oscilloscopes	3-7
Adding Offset	3-11
Autobalance	3-12
Designing Test Fixtures for the AP033 Probe	3-13

Reference Information

Differential Mode and Common Mode	4-1
Differential Mode Range and Common Mode Range	4-1
Common Mode Rejection Ratio	4-2

Remote Commands

Remote Control	5-1
Command List	5-1
Gain Control Mode	5-2



Care and Maintenance

Cleaning	6-1
----------------	-----



Calibration Interval	6-1
Service Strategy	6-1
Troubleshooting	6-1
A. Trace Off Scale	6-1
B. Incorrect Frequency Response	6-3
C. DC Errors	6-3
D. Poor Common Mode Rejection	6-3
Returning a Probe	6-4
Replacement Parts	6-5
Matching Procedure for ± 10 Plug-On External Attenuator	6-8
Equipment Required	6-8
Procedure	6-9

Performance Verification

Test Equipment Required	7-1
Preliminary Procedure	7-3
Procedure	7-4
A. Check Gain Accuracy	7-4
B. Check High Frequency CMRR	7-7
C. Check Low Frequency CMRR	7-10

Adjustment Procedure

Introduction	8-1
Test Equipment Required	8-2
Preliminary Procedure	8-4
Procedure	8-7
A. Adjust Preliminary Probe DC Balance (R36)	8-7
B. Adjust Coarse DC Balance (R226)	8-8
C. Adjust Fine DC Balance (R304)	8-9
D. Adjust ± 10 Attenuator CMRR (R7)	8-10
E. Adjust Offset (R330)	8-12
F. Adjust Gain (R322C)	8-14
G. Adjust Final Attenuator Compensation (C17)	8-15



Appendix

#



BLANK PAGE