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P6053B PROBE

INSTRUCTION MANUAL

Tektronix, Inc.
P.O. Box 500
Beaverton, Oregon 97077

070-1594-00
Product Group 60

Serial Number _____

First Printing APR 1973
Revised SEP 1987

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INSTRUMENT SERIAL NUMBERS

Each instrument has a serial number on a panel insert, tag, or stamped on the chassis. The first number or letter designates the country of manufacture. The last five digits of the serial number are assigned sequentially and are unique to each instrument. Those manufactured in the United States have six unique digits. The country of manufacture is identified as follows:

B000000	Tektronix, Inc., Beaverton, Oregon, USA
100000	Tektronix Guernsey, Ltd., Channel Islands
200000	Tektronix United Kingdom, Ltd., London
300000	Sony/Tektronix, Japan
700000	Tektronix Holland, NV, Heerenveen, The Netherlands

CHARACTERISTICS

General Information

The P6053B is a miniature, passive, fast-rise, 10X attenuation probe designed for use with oscilloscopes having input capacitances of 15 to 24 pF (paralleled by 1 MΩ). The P6053B is available with a 3.5, 6, or 9-foot cable.

A trace identification pushbutton on the body of the probe permits the user to determine which of a multitrace display includes the signal from the P6053B Probe. A coding ring on the BNC output connector actuates the VOLTS/DIV readout of the oscilloscope to include the 10X attenuation of the probe. The connector is compatible with all BNC input connectors.

Table 1 — Characteristics

Characteristic	Performance Requirement	Supplemental Information
Attenuation	10X, ±3%. (Oscilloscope input = 1 MΩ ±2%). 10X, ±0.4%. (Oscilloscope input = 1 MΩ ±0.15%).	
Input Resistance	10 MΩ, ±0.5%. (Oscilloscope input = 1 MΩ ±2%). 10 MΩ, ±0.25%. (Oscilloscope input = 1 MΩ ±0.15%).	See Figs. 1-3 for X_p and R_p versus frequency curves.
Input Capacitance		
3.5-Foot Probe	10 pF ±0.5 pF.	See Figs. 1-3 for X_p and R_p versus frequency curves.
6-Foot Probe	13 pF ±0.5 pF.	
9-Foot Probe	14 pF ±0.5 pF.	
Compensation Range	15 pF or less to at least 24 pF.	
Bandwidth (−3 dB):		
3.5 and 6-Foot Probes	≥ 200 MHz.	Oscilloscope bandwidth ≥ 225 MHz.
9-Foot Probe	≥ 115 MHz.	
Maximum Input Voltage	500 V (dc + peak ac) to 3.5 MHz; derated to 30 V at 200 MHz.	See Fig. 4 for voltage derating versus frequency curves.
Temperature		
Operating	−15°C to +75°C.	
Nonoperating	−55°C to +55°C.	
Altitude		
Operating	To 15,000 feet.	
Nonoperating	To 50,000 feet.	
Net Weight (Including Accessories)		
3.5-Foot Probe	5.0 ounces (141.75 grams)	Shipping weight ~12 ounces.
6-Foot Probe	5.25 ounces (148.84 grams)	Shipping weight ~12.5 ounces.
9-Foot Probe	5.5 ounces (155.93 grams)	Shipping weight ~13 ounces.
Dimensions		
Probe Body	~3.7 inches L X ~0.45 inch OD.	
Compensation Box	Approximately 1.7 X 0.6 X 1.2 inches.	
Cable	Approximately 3.5, 6, or 9 feet.	

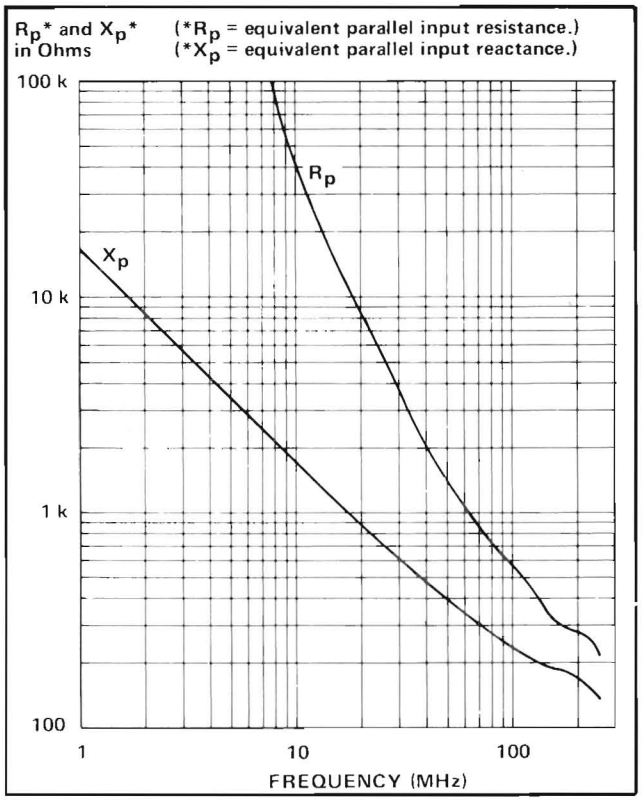


Fig. 1. P6053B Probe (3.5-foot cable), typical X_p, R_p versus frequency curves.

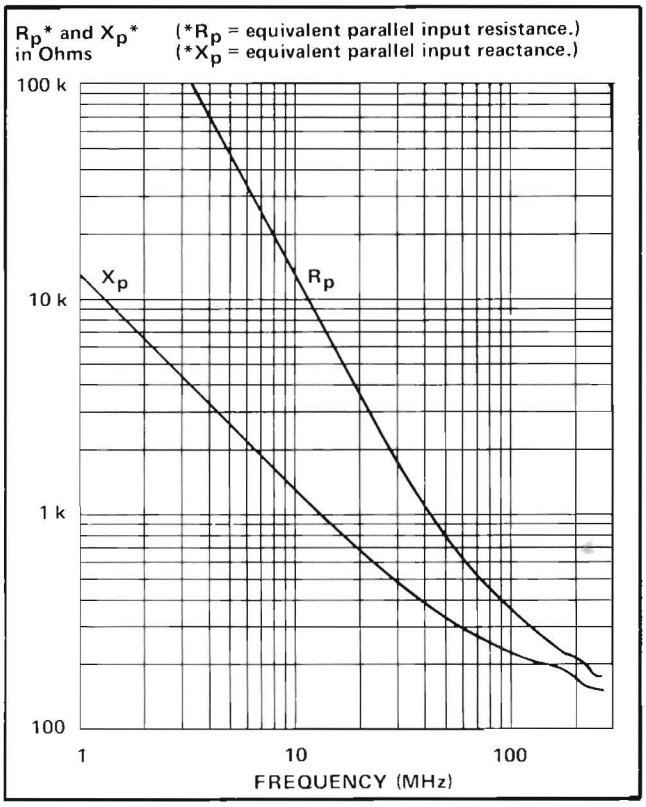


Fig. 2. P6053B Probe (6-foot cable), typical X_p, R_p versus frequency curves.

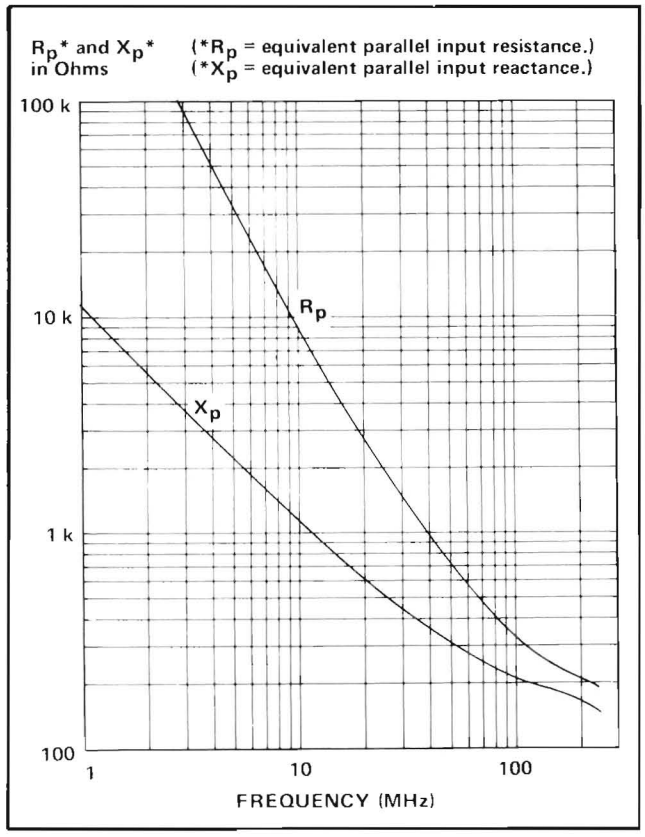


Fig. 3. P6053B Probe (9-foot cable), typical X_p, R_p versus frequency curves.

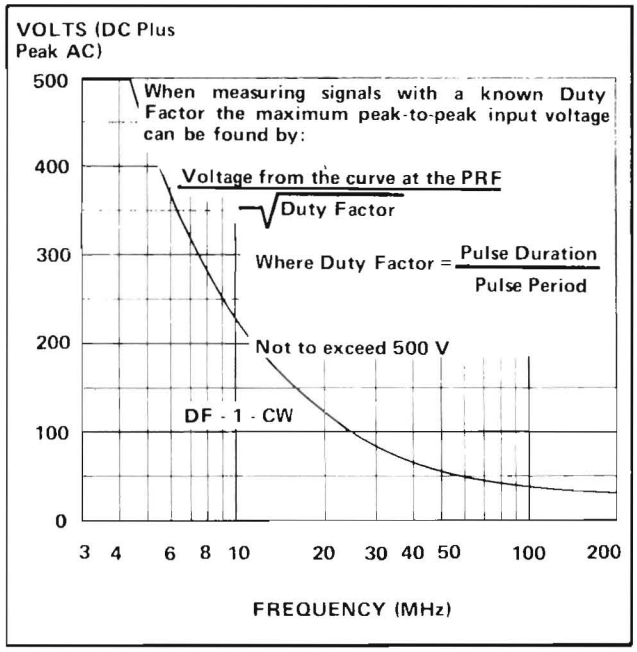


Fig. 4. P6053B Probe, typical voltage derating versus frequency curve.

OPERATING INSTRUCTIONS

Probe Compensation

Due to slight variations in the input capacitance between oscilloscope input amplifiers (even of the same type), it is usually necessary to compensate the probe whenever it is transferred from one instrument to another, or from one channel to another. Improper compensation will produce waveshape distortion or amplitude measurement error. See "Compensation Procedure" for adjustment instructions.

Maximum Input Voltage

The maximum allowable input voltage of the P6053B Probe is 500 V (dc + peak ac) at the low-frequency end of its range. As signal frequency increases, input capacitive reactance decreases and the maximum safe input voltage decreases. Fig. 4 shows the typical voltage derating versus frequency curve.

Circuit Loading

Although the dc input resistance of the P6053B is 10 MΩ, it can load any high-impedance circuit it is connected to, and distort the true waveform present. To minimize this loading effect, select the lowest impedance points to check waveforms. As signal frequency increases, the equivalent probe input impedance decreases because of the input capacitance of the probe. Figs 1, 2 and 3 show R_p and X_p as a function of frequency. These curves should be referenced to when making measurements of ac signals, especially in high-impedance circuits.

Probe Grounding

A passive probe such as the P6053B is a capacitive divider for high-frequency components. An inductance introduced by a long ground lead will form a resonant circuit that will ring if driven by a signal containing significant frequency components at or above resonance. These oscillations can appear on the oscilloscope display and distort the true waveform.

Ground leads and probe tip connections should be kept as short as possible to minimize chances of ringing.

MAINTENANCE

General

The P6053B is designed to withstand normal usage, but may be damaged if treated carelessly. Avoid kinking or straining the cable or subjecting the probe to extreme environmental conditions. When not in use, the probe should be stored in a drawer, or supported by the plastic holder supplied with the probe.

If the probe is damaged, replacement parts are available through your local Tektronix Field Office or representative. The mechanical and electrical parts lists at the rear of this manual provide the Tektronix part numbers and descriptions of the components.

Substitution of non-standard parts is not advisable if the original performance is to be restored. Even shortening the cable by more than a few percent will have a noticeable effect on the transient response of the probe. The resistive center conductor has been specifically selected for critical damping of reflections that would otherwise exist.

Connector Replacement

1. Remove the snap-fit cover on the compensation box. See Fig. 5 for instructions.

2. Unsolder the center conductor and the insulated lead from the connector to the circuit board.

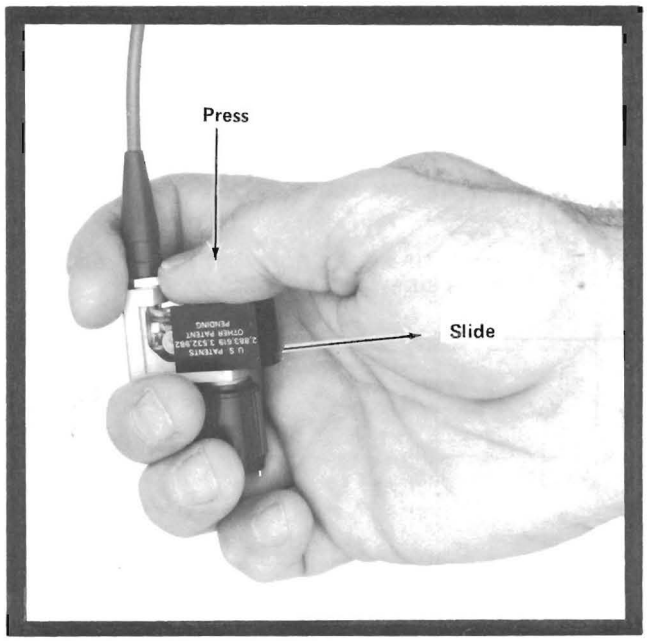


Fig. 5. Removal of compensation box cover.

3. Loosen the 1/4-inch nut with a wrench and remove the nut.

4. Pull off the connector and install the new connector. Then perform steps 1 through 3 in reverse order. Take care not to damage the insulated lead when tightening the nut.

Cable Replacement

1. Remove the snap-fit cover on the compensation box.

2. Unsolder the cable center conductor and the small copper lead from the circuit board.

3. Remove the 7/16-inch cable bushing from the compensation box.

4. Unscrew the probe body from the cable.

5. Unsolder the cable center conductor from the resistor/capacitor lead (located in the probe head).

6. Pull the resistor/capacitor assembly from the holder.

7. Insert the resistor/capacitor assembly into the holder of the new probe cable and re-assemble the probe, reversing the procedure given in steps 1 through 6 above.

Replacing the Probe Tip

If the probe tip becomes damaged, it can be replaced. Refer to Fig. 6 for probe tip removal and replacement instructions.

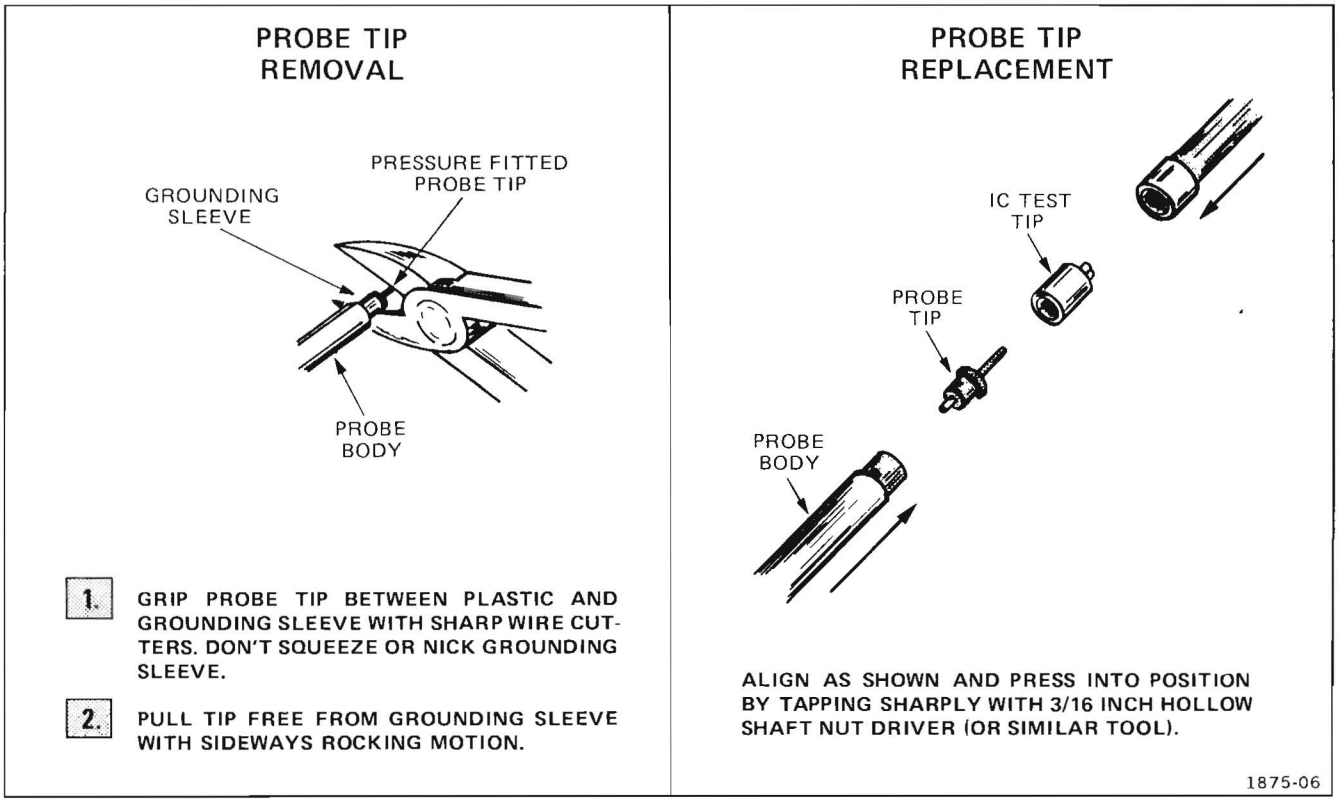


Fig. 6. Probe tip removal and replacement.

COMPENSATION PROCEDURE

Introduction

Due to variations in oscilloscope input capacitance, the low-frequency compensation of the P6053B should be checked, and adjusted if necessary, each time it is used with a different oscilloscope or oscilloscope input channel. The high-frequency compensation seldom requires readjustment. However, if the probe has excessive high-frequency aberrations or insufficient bandwidth, complete compensation is necessary.

Low-Frequency Compensation

A 1 kHz square wave, 300 mV to 500 mV in amplitude, is required to check or adjust the probe low-frequency compensation. Most Tektronix oscilloscopes are equipped with a probe calibrator that provides this signal; however, the Tektronix PG 506 Pulse Generator (with a BNC male-to-miniature probe tip adapter) may be used instead.

With the P6053B connected to the oscilloscope, apply the calibrator signal to the probe tip. Set the oscilloscope to display several cycles, three or more divisions in amplitude (see Fig. 8). Adjust C8 (see Fig. 7) for the best square wave.

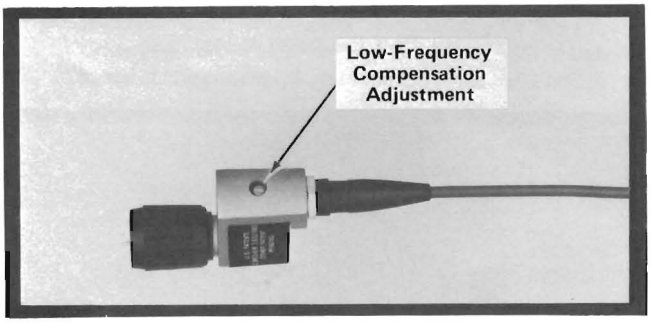


Fig. 7. Location of probe low-frequency compensation adjustment.

High-Frequency Compensation

Equipment Required. The list of equipment shown in Table 2, or its equivalent, is required to perform the complete compensation procedure. If equipment is substituted, it must meet or exceed these minimum specifications.

Procedure. Adjust for best high-frequency square wave response and minimum aberrations. Pulse waveform distortion (aberrations) should not exceed +3%, −3%, or 5% p-p. Low-frequency compensation should be optimized before proceeding.

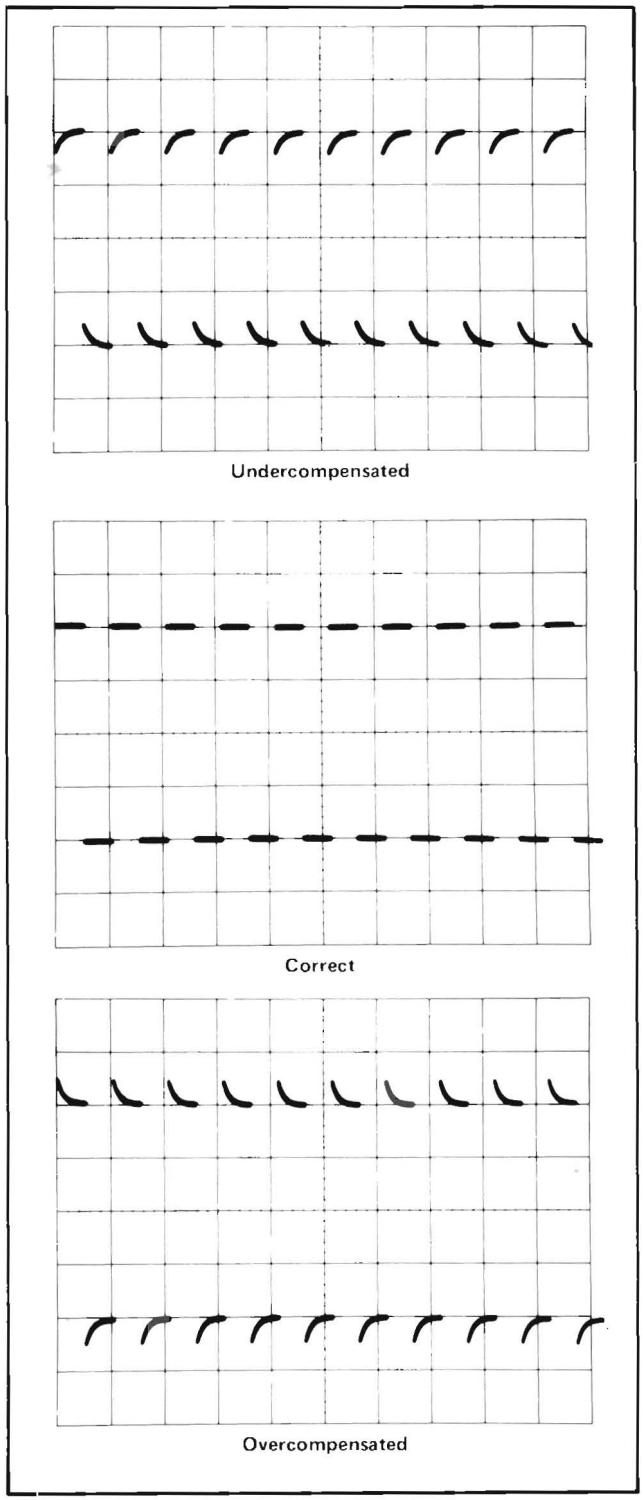


Fig. 8. Probe low-frequency compensation.

Table 2 — Test Equipment Required

Item	Minimum Requirements	Recommended Example	Application
Oscilloscope	Input Impedance: 1M Ω. Sensitivity: 10 mV/div. Bandwidth: ≥225 MHz.	TEKTRONIX 7904A Oscilloscope with 7A16A (Vert.) and 7B80 (Horiz.) Plug-Ins.	All checks and adjustments.
Square Wave Generator	Risetime: ≤1 ns. Rep. Rate: 100 kHz. Amplitude: ≥0.5 V.	TEKTRONIX PG506[a].	High-frequency compensation.
BNC 50 Ω, 10X Feed-Through Attenuator		Tektronix Part No. 011-0059-02.	High-frequency compensation.
BNC 50 Ω Feed-Through Termination		Tektronix Part No. 011-0049-01.	High-frequency compensation.
50 Ω Cable	BNC male connectors.	Tektronix Part No. 012-0482-00.	High-frequency compensation.
BNC Male-to-Miniature Probe Tip Adapter		Tektronix Part No. 013-0084-02.	High-frequency compensation.
Low-Capacitance Screwdriver		Tektronix Part No. 003-0675-00.	All adjustments.

[a]**Requires a TM500- or TM5000-Series Power Module Mainframe.**

a. Connect the BNC cable to the + Fast Rise Output of the PG506. Connect the 10X attenuator to the cable and the 50 Ω termination to the attenuator. Connect the cable assembly to the oscilloscope input.

b. Adjust the oscilloscope and signal source for a 5-division display of 100 kHz. Set the oscilloscope to display the front corner of the waveform. (Oscilloscope time/div = 20 ns; volts/div = 10 mV/div.)

c. Note the pulse shape and aberrations.

d. Disconnect the cable assembly.

e. Connect the 50 Ω BNC termination to the PG506. Connect the BNC-to-probe tip adapter to the termination, and insert the P6053B tip into the adapter.

f. Connect the P6053B to the oscilloscope and adjust for a 5-division display.

g. CHECK—the high-frequency response by comparing the display against the display noted in step c. Aberrations from the reference display should not exceed +3%, −3%, or 5% p-p of the pulse amplitude (5% of 5 divisions = 0.25 division).

h. If the aberrations are excessive:

1. Remove the compensation box cover (Fig. 5).

2. Adjust R5 and R6 (also R9 with the 6-ft. and 9-ft. probes) for the best overall flat response. See Fig. 9 for adjustment locations.

3. Adjust C6 for the best corner response (without ringing).

4. Repeat parts 2 and 3 as necessary.

5. Recheck the waveform with the compensation box cover installed. Perform adjustments as necessary after the cover is installed.

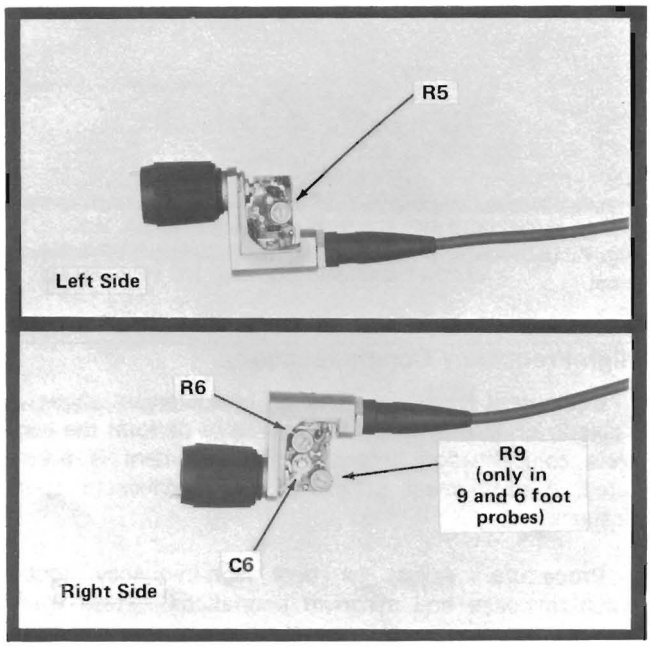


Fig. 9. Location of high-frequency compensation adjustments.

REPLACEABLE ELECTRICAL PARTS

PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

LIST OF ASSEMBLIES

A list of assemblies can be found at the beginning of the Electrical Parts List. The assemblies are listed in numerical order. When the complete component number of a part is known, this list will identify the assembly in which the part is located.

CROSS INDEX-MFR. CODE NUMBER TO MANUFACTURER

The Mfr. Code Number to Manufacturer index for the Electrical Parts List is located immediately after this page. The Cross Index provides codes, names and addresses of manufacturers of components listed in the Electrical Parts List.

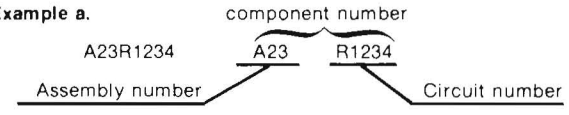
ABBREVIATIONS

Abbreviations conform to American National Standard Y1.1.

COMPONENT NUMBER (column one of the Electrical Parts List)

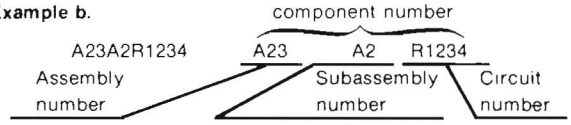
A numbering method has been used to identify assemblies, subassemblies and parts. Examples of this numbering method and typical expansions are illustrated by the following:

Example a.



Read: Resistor 1234 of Assembly 23

Example b.



Read: Resistor 1234 of Subassembly 2 of Assembly 23

Only the circuit number will appear on the diagrams and circuit board illustrations. Each diagram and circuit board illustration is clearly marked with the assembly number. Assembly numbers are also marked on the mechanical exploded views located in the Mechanical Parts List. The component number is obtained by adding the assembly number prefix to the circuit number.

The Electrical Parts List is divided and arranged by assemblies in numerical sequence (e.g., assembly A1 with its subassemblies and parts, precedes assembly A2 with its subassemblies and parts).

Chassis-mounted parts have no assembly number prefix and are located at the end of the Electrical Parts List.

TEKTRONIX PART NO. (column two of the Electrical Parts List)

Indicates part number to be used when ordering replacement part from Tektronix.

SERIAL/MODEL NO. (columns three and four of the Electrical Parts List)

Column three (3) indicates the serial number at which the part was first used. Column four (4) indicates the serial number at which the part was removed. No serial number entered indicates part is good for all serial numbers.

NAME & DESCRIPTION (column five of the Electrical Parts List)

In the Parts List, an Item Name is separated from the description by a colon (:). Because of space limitations, an Item Name may sometimes appear as incomplete. For further Item Name identification, the U.S. Federal Cataloging Handbook H6-1 can be utilized where possible.

MFR. CODE (column six of the Electrical Parts List)

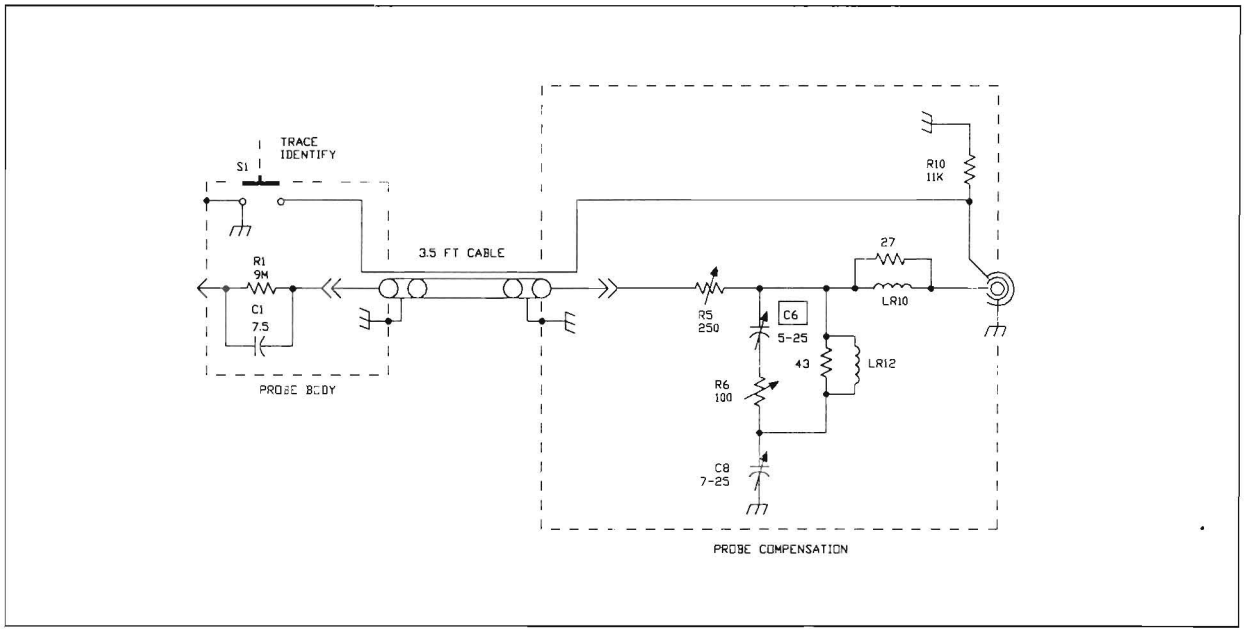
Indicates the code number of the actual manufacturer of the part. (Code to name and address cross reference can be found immediately after this page.)

MFR. PART NUMBER (column seven of the Electrical Parts List)

Indicates actual manufacturers part number.

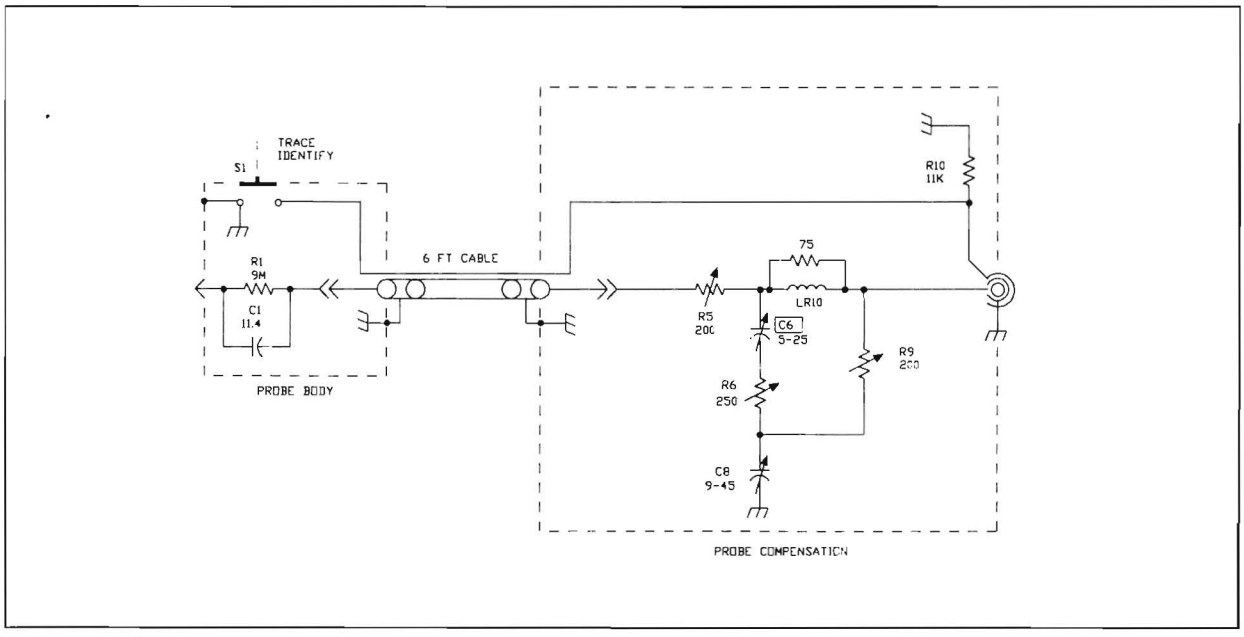
CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
01121	ALLEN-BRADLEY CO	1201 SOUTH 2ND ST	MILWAUKEE WI 53204
32997	BOURNS INC TRIMPOT DIV	1200 COLUMBIA AVE	RIVERSIDE CA 92507
33095	SPECTRUM CONTROL INC	8061 AVONIA RD	FAIRVIEW PA 16415
59660	TUSONIX INC	2155 N FORBES BLVD	TUCSON, ARIZONA 85705
72982	ERIE TECHNOLOGICAL PRODUCTS INC	645 W 11TH ST	ERIE PA 16512
80009	TEKTRONIX INC	4900 S W GRIFFITH DR P O BOX 500	BEAVERTON OR 97077
TK1345	ZMAN AND ASSOCIATES	7633 S 180TH	KENT WA 98032

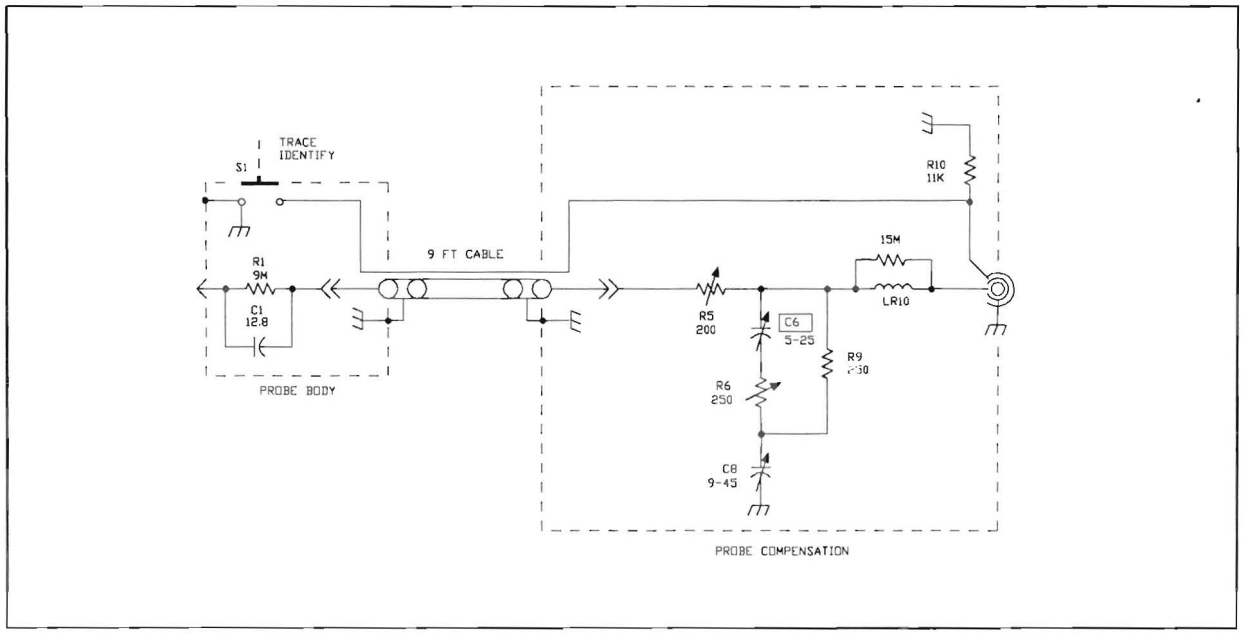


Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A1	670-1655-02			CIRCUIT BD ASSY:PROBE OPTION;01 ONLY	80009	670-1655-02
C1	----- -----			CAP.,FXD,CER DI:7.5PF,+/-0.1PF,500V (AVAILABLE ONLY AS ATTENUATOR ASSY- SEE FIG. 9-3 RMPL)		
C6	281-0221-00		8705	CAP,VAR,CER DI:2-10PF,100V	72982	0513013A 2 0-10
C6	281-0123-00	8706		CAP,VAR,CER DI:5-25PF,100V	59660	518-000A5-25
C8	281-0160-00			CAP,VAR,CER DI:7-25PF,350V,MINTR CER DISC	80009	281-0160-00
LR10	108-0601-00			COIL,RF:FIXED,45NH	80009	108-0601-00
LR12	108-0628-00			COIL,RF:FIXED,290NH	TK1345	108-0628-00
R1	----- -----			RES.,FXD,FILM:9M OHM,0.1%,0.25W (AVAILABLE ONLY AS ATTENUATOR ASSY- SEE FIG. 9-3 RMPL)		
R5	311-0978-01			RES,VAR,NONWW:TRMR,250 OHM,0.5W	32997	3329H-K28-251
R6	311-0622-01			RES,VAR,NONWW:TRMR,100 OHM,0.5W	32997	3329H-K28-101
R10	317-0113-00			RES,FXD,CMPSN:11K OHM,5%,0.125W	01121	BB 1135

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A1	670-1656-01			CIRCUIT BD ASSY:PROBE STANDARD ONLY	80009	670-1656-01
C1	----- -----			CAP.,FXD,CER DI:11.4PF,1%,500V (AVAILABLE ONLY AS ATTENUATOR ASSY- SEE FIG. 9-3 RMPL)		
C6	281-0221-00		8705	CAP,VAR,CER DI:2-10PF,100V	72982	0513013A 2 0-10
C6	281-0123-00	8706		CAP,VAR,CER DI:5-25PF,100V	59660	518-000A5-25
C8	281-0167-00			CAP,VAR,CER DI:9-45PF,200V	33095	53-717-001 D9-45
LR10	108-0602-00			COIL,RF:FIXED,45NH	TK2042	ORDER BY DESCR
R1	----- -----			RES.,FXD,FILM:9M OHM,0.1%,0.25W (AVAILABLE ONLY AS ATTENUATOR ASSY- SEE FIG. 9-3 RMPL)		
R5	311-0605-01			RES,VAR,NONWW:TRMR,200 OHM,0.5W	73138	82PR200-3D
R6	311-0978-01			RES,VAR,NONWW:TRMR,250 OHM,0.5W	32997	3329H-K28-251
R9	311-0605-01			RES,VAR,NONWW:TRMR,200 OHM,0.5W	73138	82PR200-3D
R10	317-0113-00			RES,FXD,CMPSN:11K OHM,5%,0.125W	01121	BB 1135



Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A1	670-1657-01			CIRCUIT BD ASSY:PROBE OPTION;03 ONLY	80009	670-1657-01
C1	----- -----			CAP.,FXD,CER DI:12.8PF,1%,500V (AVAILABLE ONLY AS ATTENUATOR ASSY-SEE FIG. 9-3 RMPL)		
C6	281-0221-00		8705	CAP,VAR,CER DI:2-10PF,100V	72982	0513013A 2 0-10
C6	281-0123-00	8706		CAP,VAR,CER DI:5-25PF,100V	59660	518-000A5-25
C8	281-0167-00			CAP,VAR,CER DI:9-45PF,200V	33095	53-717-001 D9-45
LR10	108-0682-00			COIL,RF:FIXED,61NH	80009	108-0682-00
R1	----- -----			RES.,FXD,FILM:9M OHM,0.1%,0.25W (AVAILABLE ONLY AS ATTENUATOR ASSY-SEE FIG. 9-3 RMPL)		
R5	311-0605-01			RES,VAR,NONWW:TRMR,200 OHM,0.5W	73138	82PR200-3D
R6	311-0978-01			RES,VAR,NONWW:TRMR,250 OHM,0.5W	32997	3329H-K28-251
R9	311-0978-01			RES,VAR,NONWW:TRMR,250 OHM,0.5W	32997	3329H-K28-251
R10	317-0113-00			RES,FXD,CMPSN:11K OHM,5%,0.125W	01121	BB 1135



REPLACEABLE MECHANICAL PARTS

PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

ITEM NAME

In the Parts List, an Item Name is separated from the description by a colon (:). Because of space limitations, an Item Name may sometimes appear as incomplete. For further Item Name identification, the U.S. Federal Cataloging Handbook H6-1 can be utilized where possible.

FIGURE AND INDEX NUMBERS

Items in this section are referenced by figure and index numbers to the illustrations.

INDENTATION SYSTEM

This mechanical parts list is indented to indicate item relationships. Following is an example of the indentation system used in the description column.

```
1 2 3 4 5                    Name & Description

Assembly and/or Component
Attaching parts for Assembly and/or Component
                - - - * - - -
   Detail Part of Assembly and/or Component
   Attaching parts for Detail Part
                - - - * - - -
      Parts of Detail Part
      Attaching parts for Parts of Detail Part
                - - - * - - -
```

Attaching Parts always appear in the same indentation as the item it mounts, while the detail parts are indented to the right. Indented items are part of, and included with, the next higher indentation. The separation symbol - - - * - - - indicates the end of attaching parts.

Attaching parts must be purchased separately, unless otherwise specified.

ABBREVIATIONS

"	INCH
#	NUMBER SIZE
ACTR	ACTUATOR
ADPTR	ADAPTER
ALIGN	ALIGNMENT
AL	ALUMINUM
ASSEM	ASSEMBLED
ASSY	ASSEMBLY
ATTEN	ATTENUATOR
AWG	AMERICAN WIRE GAGE
BD	BOARD
BRKT	BRACKET
BRS	BRASS
BRZ	BRONZE
BSHG	BUSHING
CAB	CABINET
CAP	CAPACITOR
CER	CERAMIC
CHAS	CHASSIS
CKT	CIRCUIT
COMP	COMPOSITION
CONN	CONNECTOR
COV	COVER
CPLG	COUPLING
CRT	CATHODE RAY TUBE
DEG	DEGREE
DWR	DRAWER
ELCTRN	ELECTRON
ELEC	ELECTRICAL
ELCTLT	ELECTROLYTIC
ELEM	ELEMENT
EPL	ELECTRICAL PARTS LIST
EQPT	EQUIPMENT
EXT	EXTERNAL
FIL	FILLISTER HEAD
FLEX	FLEXIBLE
FLH	FLAT HEAD
FLTR	FILTER
FR	FRAME or FRONT
FSTNR	FASTENER
FT	FOOT
FXD	FIXED
GSKT	GASKET
HDL	HANDLE
HEX	HEXAGON
HEX HD	HEXAGONAL HEAD
HEX SOC	HEXAGONAL SOCKET
HLCPS	HELICAL COMPRESSION
HLEXT	HELICAL EXTENSION
HV	HIGH VOLTAGE
IC	INTEGRATED CIRCUIT
ID	INSIDE DIAMETER
IDENT	IDENTIFICATION
IMPLR	IMPELLER
IN	INCH
INCAND	INCANDESCENT
INSUL	INSULATOR
INTL	INTERNAL
LPHLDR	LAMPHOLDER
MACH	MACHINE
MECH	MECHANICAL
MTG	MOUNTING
NIP	NIPPLE
NON WIRE	NOT WIRE WOUND
OBD	ORDER BY DESCRIPTION
OD	OUTSIDE DIAMETER
OVH	OVAL HEAD
PH BRZ	PHOSPHOR BRONZE
PL	PLAIN or PLATE
PLSTC	PLASTIC
PN	PART NUMBER
PNH	PAN HEAD
PWR	POWER
RCPT	RECEPTACLE
RES	RESISTOR
RGD	RIGID
RLF	RELIEF
RTNR	RETAINER
SCH	SOCKET HEAD
SCOPE	OSCILLOSCOPE
SCR	SCREW
SE	SINGLE END
SECT	SECTION
SEMICOND	SEMICONDUCTOR
SHLD	SHIELD
SHLDR	SHOULDERED
SKT	SOCKET
SL	SLIDE
SLFLKG	SELF-LOCKING
SLVG	SLEEVING
SPR	SPRING
SQ	SQUARE
SST	STAINLESS STEEL
STL	STEEL
SW	SWITCH
T	TUBE
TERM	TERMINAL
THD	THREAD
THK	THICK
TNSN	TENSION
TPG	TAPPING
TRH	TRUSS HEAD
V	VOLTAGE
VAR	VARIABLE
W/	WITH
WSHR	WASHER
XFMR	TRANSFORMER
XSTR	TRANSISTOR

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
24931	SPECIALTY CONNECTOR CO INC	2620 ENDRESS PLACE P O BOX D	GREENWOOD IN 46142
73743	FISCHER SPECIAL MFG CO	446 MORGAN ST	CINCINNATI OH 45206
80009	TEKTRONIX INC	4900 S W GRIFFITH DR P O BOX 500	BEAVERTON OR 97077
86928	SEASTROM MFG CO INC	701 SONORA AVE	GLENDALE CA 91201

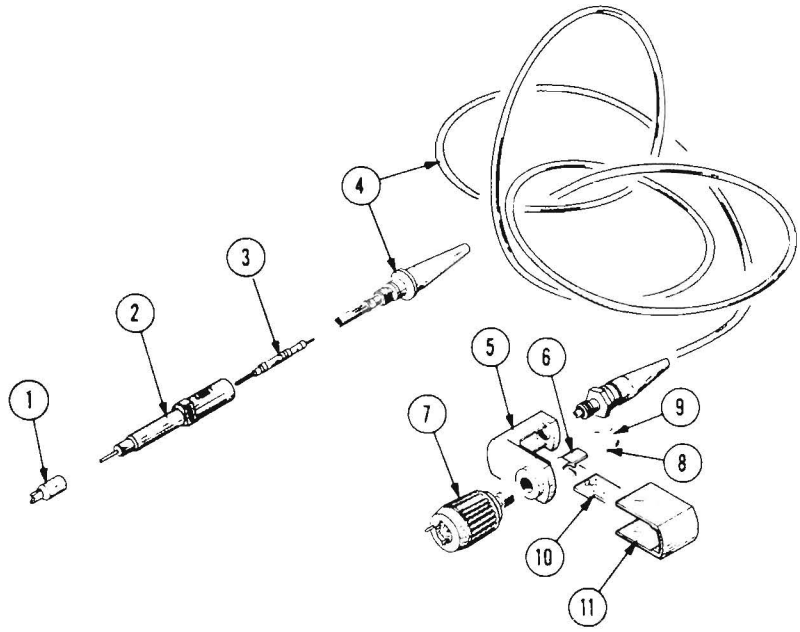


Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
-1	----- -----			1	.TIP,PROBE: .(SEE OPTIONAL ACCESSORIES LIST)		
-2	204-0579-00			1	.BODY ASSY,PROBE:	80009	204-0579-00
-3	206-0206-01			1	.ATTEN SUBASSY: .(OPTION 01 ONLY)	80009	206-0206-01
	206-0204-01			1	.ATTEN SUBASSY: .(STANDARD ONLY)	80009	206-0204-01
	206-0205-00			1	.ATTEN SUBASSY: .(OPTION 03 ONLY)	80009	206-0205-00
-4	175-1435-00		7426	1	.CABLE ASSY,RF:50 OHM COAX W/MESS WIRE,44.75	80009	175-1435-00
	175-1435-01	7427		1	.CABLE ASSY,RF:50 OHM COAX W/MESS WIRE,44.75 .(OPTION 01 ONLY)	80009	175-1435-01
	175-1139-01		7426	1	.CABLE ASSY,RF:39 OHM COAX,72.0 L	80009	175-1139-01
	175-1139-02	7427		1	.CABLE ASSY,RF:39 OHM COAX,72.0 L .(STANDARD ONLY)	80009	175-1139-02
	175-1311-00		7426	1	.CABLE ASSY,RF:39 OHM COAX,108.0 L	80009	175-1311-00
	175-1311-01	7427		1	.CABLE ASSY,RF:39 OHM COAX,108.0 L .(OPTION 03 ONLY)	80009	175-1311-01
-5	426-0690-10			1	.FRAME,CMPNT BOX:	80009	426-0690-10
-6	354-0396-00			1	.RING,CAP.MTG:PROBE,POLYCARBONATE	80009	354-0396-00
-7	131-1070-00			1	.CONN,RCPT,ELEC:BNC,MALE,3 CONTACT .(ATTACHING PARTS)	80009	131-1070-00
-8	210-0056-00			1	.WASHER,LOCK:#10 SPLIT,0.047 THK,SI BRZ	86928	ORDER BY DESCR
-9	220-0572-00			1	.NUT,PLAIN,HEX:10-32 X 0.25 HEX,BRS NP .(END ATTACHING PARTS)	73743	ORDER BY DESCR
-10	670-1655-01			1	CIRCUIT BD ASSY:PROBE (OPTION 01 ONLY)	80009	670-1655-01
	670-1656-00			1	CIRCUIT BD ASSY:PROBE (STANDARD ONLY)	80009	670-1656-00
	670-1657-00			1	CIRCUIT BD ASSY:PROBE (OPTION 03 ONLY)	80009	670-1657-00

Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
-11	200-1158-13			1	COVER,COMP BOX: (OPTION 01 ONLY)	80009	200-1158-13
	200-1158-11			1	COVER,COMP BOX: (STANDARD ONLY)	80009	200-1158-11
	200-1158-12			1	COVER,COMP BOX: (OPTION 03 ONLY)	80009	200-1158-12

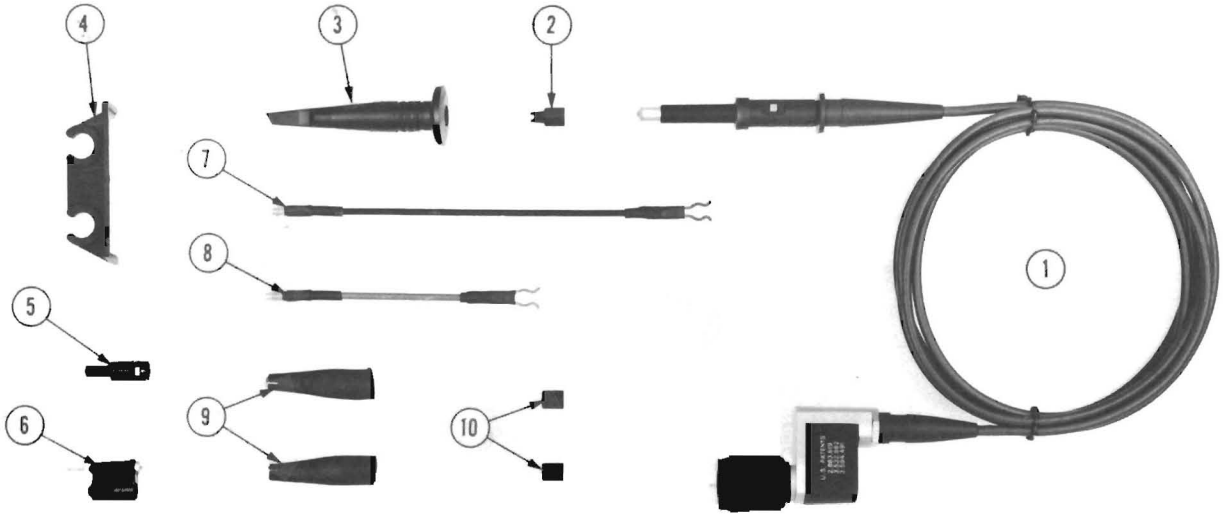


Fig. & Index No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Qty	12345 Name & Description	Mfr. Code	Mfr. Part No.
-1					PROBE		
-2	----- -----			1	.TIP,PROBE:IC TEST .(SEE OPTIONAL ACCESSORIES LIST) ACCESSORY PKG INCLUDES:		
-3	013-0107-05			1	.TIP,PROBE:RETRACTABLE HOOK ASSY	80009	013-0107-05
-4	352-0351-00			1	.HOLDER,PROBE:BLACK ABS	80009	352-0351-00
-5	206-0114-00			1	.TIP,PROBE:HOOK	80009	206-0114-00
-6	013-0085-01			1	.TIP,PROBE:GROUNDING,P6038	80009	013-0085-01
-7	175-0124-01			1	.LEAD,ELECTRICAL:STRD,23 AWG,BLK VINYL,5.0 L	80009	175-0124-01
-8	175-0263-01			1	.LEAD,ELECTRICAL:STRD,18 AWG,3.0 L	80009	175-0263-01
-9	344-0046-00			2	.CLIP,ELECTRICAL:ALLIGATOR,1.56 L,STL BRT	80009	344-0046-00
-10	166-0404-01			2	.COVER,GROUND:	80009	166-0404-01
					STANDARD ACCESSORIES		
	070-1594-00			1	MANUAL,TECH:INSTRUCTION	80009	070-1594-00
					OPTIONAL ACCESSORIES		
	013-0084-02			1	ADAPTER,CONN:PROBE TO BNC	24931	28P230
	015-0201-04			1	TIP,PROBE:IC TEST,PKG OF 10	80009	015-0201-04
	015-0201-05			1	TIP,PROBE:IC TEST,PKG OF 100	80009	015-0201-05
	206-0191-03			1	TIP,PROBE:SET OF 10,W/EXTRACTOR	80009	206-0191-03
	206-0191-04			1	TIP,PROBE:SET OF 100,W/EXTRACTOR	80009	206-0191-04

TEKTRONIX

P6053B PROBE

3.5 FOOT PROBE PARTS LIST CHANGE

CHANGE COMPONENT NO's C1 AND R1 TO

RC1 R/C HYBRID, 7.4 PF

6.0 FOOT PROBE PARTS LIST CHANGE

CHANGE COMPONENT NO's C1 AND R1 TO

RC1 R/C HYBRID, 11.4 PF

Additions to standard accessories parts list.

Add to page 13.

Index no.	Part no.	Qty.	Name/description.
-11	334-1636-00	2	Orange marker.
-12	334-1636-01	2	Red marker.
-13	334-1636-02	2	White marker.

Under Heading PROBE, on page 13

Remove:

-2	------ -----	1	Tip Probe: IC test (see optional accessories list)

Add

-3	013-0107-06	1	Tip Probe: Retractable hook assy.

Under Heading Accessory PKG Includes.

Remove:

-3	013-0107-05	1	Tip Probe: Retractable hook assy.

Add

-2	015-0201-06	1	Tip Probe: IC test.

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