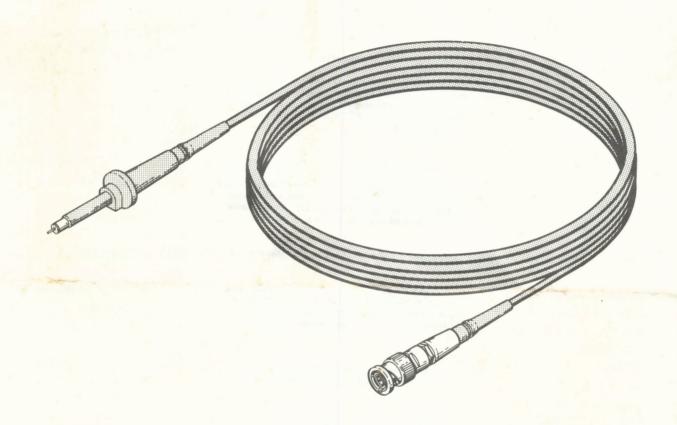


CSG PUBLICATIONS/RESEARCH

P6101 PASSIVE PROBE



The P6101 Probe is a miniature, 1%, passive probe for use with all general-purpose oscilloscopes.

WARNING

To avoid shock, do not disassemble when connected to voltage source. Disassembly is a service operation only. Refer servicing to qualified service personnel.

Modular construction of the probe simplifies repair, as both the probe head and BNC connector are easy to remove from the cable assembly.

The P6101 Probe is available in three lengths and identified by the colored strain relief at each end of the cable: blue - 1 meter (3.3 ft), yellow - 2 meter (6.6 ft), red - 3 meter (9.9 ft).



WARRANTY

All TEKTRONIX instruments are warranted against defective materials and workmanship for one year. Any questions with respect to the warranty should be taken up with your TEKTRONIX Field Engineer or representative.

All requests for repairs and replacement parts should be directed to the TEKTRONIX Field Office or representative in your area. This will assure you the fastest possible service. Please include the instrument Type Number or Part Number and Serial Number with all requests for parts or service.

Specifications and price change privileges reserved.

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SPECIFICATIONS

Electrical

Attenuation: 1% (same as oscilloscope).

Input Resistance: Same as oscilloscope.

Approximate Probe Capacitance:

1 Meter (3.3 ft)	2 Meter (6.6 ft)	3 Meter (9.9 ft)
Blue	Yellow	Red
32 pF	54 pF	78 pF

Bandwidth (-3 dB): (Probe only)

Probe Length	Oscilloscope Input Capacitance 20 pF	
1 Meter (3.3 ft)	At least 34.0 MHz	
2 Meter (6.6 ft)	At least 15.5 MHz	
3 Meter (9.9 ft)	At least 8.0 MHz	

Maximum Input Voltage: 500 Volts (dc + peak ac), derated with frequency. See Figure 1. Voltage vs Frequency Derating.

Environmental

Probe operates within specifications over the following ranges:

Temperature: -15° C (+5° F) to +75° C (+167° F).

Altitude: To 15,000 feet.

Physical

Net weight (including accessories):

- 1 Meter (3.3 ft) Probe: 90 grams (3.2 oz).
- 2 Meter (6.6 ft) Probe: 115 grams (4.1 oz).
- 3 Meter (9.9 ft) Probe: 140 grams (4.9 oz).

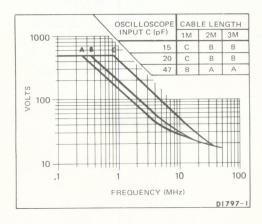


Figure 1. Voltage vs. frequency derating.

OPERATING CONSIDERATIONS

Probe Grounding

A passive probe is capacitive for high-frequency components. Inductance introduced by a long signal or ground lead will form a series reasonant circuit that will"ring" if driven by a signal containing significant frequency components at or above circuit 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 maintain the best fidelity.

MAINTENANCE

WARNING

To avoid shock, do not disassemble probe when connected to voltage source. Only qualified service personnel should use the following service instructions. Unless you are qualified to do so, perform no servicing except that contained in the preceding operating instructions.

The P6101 Probe is designed to withstand normal operation and handling. However, if the coaxial cable, probe head, or BNC connector should fail or break, replacement parts are available. See Replaceable Mechanical Parts List for part numbers.

BNC Connector Removal:

See Figure 2 for BNC connector removal and replacement.

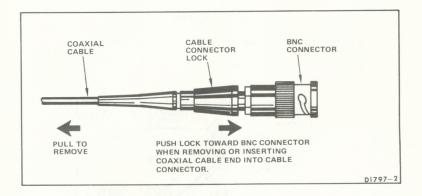


Figure 2. Removal and replacement of BNC connector.

Removing Probe Tip:

See Figure 3 for probe tip removal and replacement.

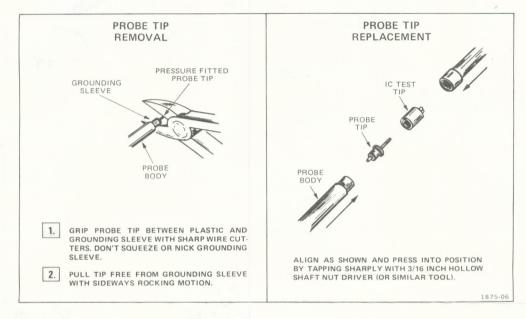
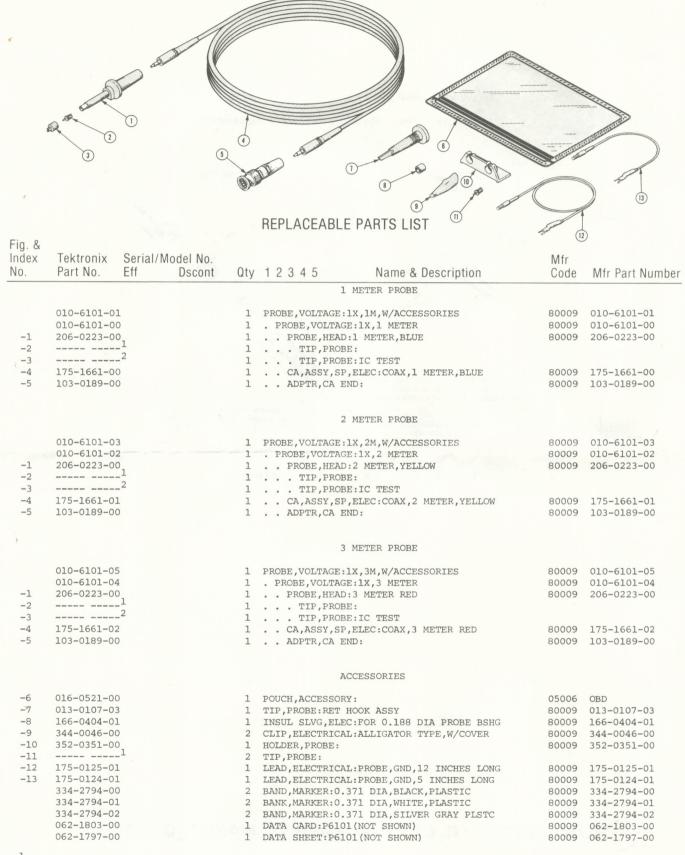


Figure 3. Probe tip removal and replacement.

CROSS INDEX MFR. CODE NUMBER TO MANUFACTURER



Available only in packs of 10, PN 206-0191-01.

Available only in packs of 10, PN 015-0201-01 or 100, PN 015-0201-02.