

Tektronix P6011 Passive Probe Instruction Manual

Home » Tektronix » Tektronix P6011 Passive Probe Instruction Manual



Contents [hide

- 1 Tektronix P6011 Passive Probe
- **2 WARRANTY**
- 3 P6011 PROBE SECTION 1
- **4 GENERAL INFORMATION**
 - 4.1 CHARACTERISTICS
 - **4.2 OPTIONAL ACCESSORIES**
- **5 USE OF ACCESSORIES**
- **6 MAINTENANCE**
- **7 PARTS 11ST SECTION 2**
 - 7.1 ABBREVIATIONS AND SYMBOLS
- **8 SPECIAL NOTES AND SYMBOLS**
- 9 PROBE and STANDARD

ACCESSORIES

- 9.1 REPLACEABLE PARTS (3.5 foot)
- 9.2 REPLACEABLE PARTS (6 foot)
- 9.3 DESCRIPTION
- 9.4 REPLACEABLE PARTS 19 foot}
- 10 Documents / Resources
- 11 Related Posts

Tektronix P6011 Passive Probe



WARRANTY

All Tektronix instruments are warranted against defective materials and workmanship for one year. Tektronix transformers, manufactured in our own plant, are warranted for the life of the instrument.

Any questions with respect to the warranty mentioned above should be taken up with your Tektronix Field Engineer.

Tektronix repair and replacement-part service is geared directly to the field, therefore all requests for repairs and replacement parts should be directed to the Tektronix

Field Office or Representative in your area. This procedure will assure you the fastest possible service. Please include the instrument Type and Serial number with all requests for parts or service. Specifications and price change privileges reserved.

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P6011 PROBE SECTION 1

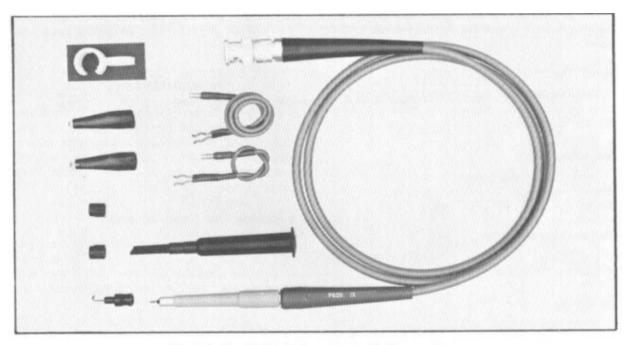


Fig. 1-1. The P6011 Probe with standard accessories.

GENERAL INFORMATION

The P6011 is o passive I X probe with o small diameter probe body for cozy access to lest points of compact circuitry.

The probe consists of o probe body assembly and o coble with a BNC connector. The coble is available in 3.5.fool, 6.fool, and 9-foat lengths.

CHARACTERISTICS

Input Capacitance

At 140 kHz the input copal, lance of lye 3.5- foot coble is 28 pF, the 6-foot cable is 48 pF, and the 9-foot coble is 75 pF.

Voltage Rating

The maximum DC, AC peak, or DC and AC peak combined input voltage is 600 V. See Fig. 1-2 for derating curves.

Risetime

The risetime of the probe alone, when driven by a 25-ohm source is lisle in Table 1-1.

TABLE 1-1

Probe	Instrument	Input	Capacitance
Length	15 pF		20 pF
3.5 foot	≤12 ns		≤15 ns
6 foot	≤15 ns		\leq 17 ns
9 foot	<23 ns		<25 ns

Connecting Cable

The cable is made with a special res, solve center which provides critical damping of reflections.

Environmental Capability

The probe will operose normally at tempera lures to 75 ° C.

OPTIONAL ACCESSORIES

Tektronix

- · Part No. Description
- 013-0084-00 BNC to Probe Adopter
- 017-0076-00 GR to Probe Adapter
- 131 -0258-00 Tesl Point Jack
- 175•0249-00 3 in. Ground Clip
- 175-0236-00 3 in. Ground Lead

USE OF ACCESSORIES

Pincher Tip

The pincher tip, which slides onto the probe body, provides a positive connection to a test point.

Hook Tip

The hook tip provides a means of holding onto a test point when there is not adequate room for the pincher tip.

Insulating Tube

When using the probe without one of the above tips, place an insulating tube over the tip of the probe to avoid short circuits.

Ground Lead

The ground lead clips to the probe between the probe body and the cable assembly.

Insulating Sleeve

When the ground lead is connected to the probe, place the insulating sleeve over the exposed connection to avoid short circuits.

Miniature Alligator Clip

The insulated alligator clip screws onto the ground lead

Probe Holder

The probe holder provides a convenient means of storing the probe when not in use. After connecting the probe to the instrument being used, place the wide half of the probe holder around the cable and slide onto the tapered portion of the cable assembly near the BNC connector. When the probe is not in use, place the tapered portion near the probe body into the holder.

MAINTENANCE

The P6011 Probe is designed to withstand normal operation and handling and should give many hours of continuous use without failure.

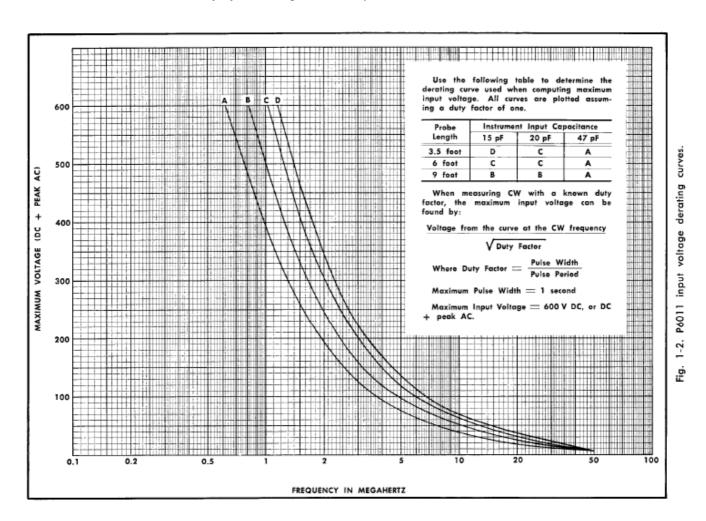
However, if the probe fails or breaks, replacement parts are available. See Mechanical Parts List in Section 2.

Replacing the Cable Assembly

If the coaxial cable between the probe body and the BNC connector should fail, the cable assembly is available complete with fittings and

cable reliefs. Replace the cable assembly as follows:

- 1. Unscrew the BNC plug, using two 7/16 in. wrenches.
- 2. Unsolder the contact pin.
- 3. Remove the spacer insulator.
- 4. Unscrew the probe body and sleeve assembly from the other end of the cable assembly.
- 5. Unsolder the male plug from the cable.
- 6. Install the new cable assembly by reversing the above procedure.



PARTS 11ST SECTION 2

PARTS ORDERING INFORMATION

Replacement ports ore available from or through your local Tektronix Field Office.

Changes to Tektronix instruments are sometimes mode to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering deportment. It is therefore important, when ordering ports, to include the following information in your order: Port number including any suffix, instrument type, serial number, and modification number if applicable.

If a port you hove ordered hos been replaced with a new or improved port, your local Tektronix Field Office will contact you concerning any change in port number.

ABBREVIATIONS AND SYMBOLS

mm millimeter a or amp amperes megohms or mega (106) meg or M BHS binding head steel C carbon metal met. micro, or 10-6 ceramic cer M nano, or 10-9 centimeter n cm Ω ohm composition comp OD outside diameter cycles per second cps OHS oval head steel cathode-ray tube crt pico, or 10-12 CSK counter sunk PHS pan head steel dia diameter peak inverse voltage div division piv EMC electrolytic, metal cased plstc plastic paper, metal cased PMC electroyltic, metal tubular EMT poly polystyrene external ext Prec arad precision paper tubular F & 1 focus and intensity paper or plastic, tubular, molded PTM FHS flat head steel Fil HS fillister head steel RHS round head steel g or G giga, or 109 root mean square rms germanium second Ge sec GMV guaranteed minimum value Si silicon S/N henry serial number tera, or 10^{12} t or T hexagonal hex HHS hex head steel TD toroid HSS hex socket steel THS truss head steel HΥ high voltage tubular tub. v or V ID inside diameter volt variable incd incandescent Var int internal watt w w/ k or K kilohms or kilo (103) with kilocycle without w/o kc milli, or 10-3 ww wire-wound m

SPECIAL NOTES AND SYMBOLS

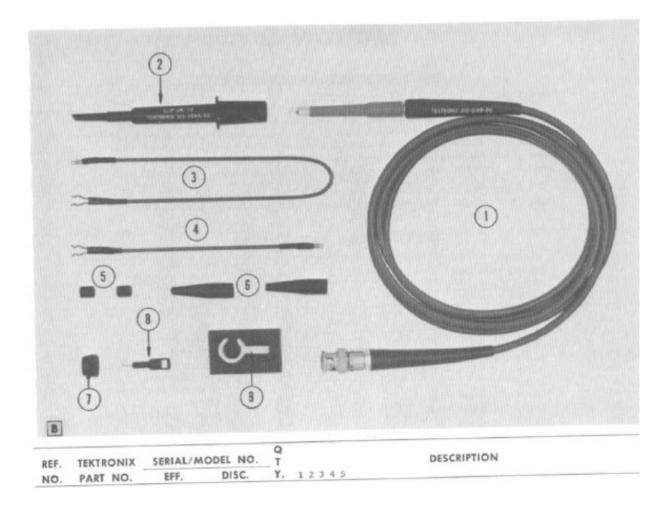
mc

• xooo Port first added at this serial number.

megacycle

- ooox. Port removed ofter this serial number.
- 000-000 Asterisk preceding Tektronix Port Number indicates manufactured by or for Tektronix, or reworked or checked components.
- Use 000-000 Port number indicated is direct replacement.
- Internal screwdriver adjustment.
- Front-panel adjustment or connector.

PROBE and STANDARD ACCESSORIES



PROBE PACKAGE

PROBE PACKAGE

- 1-9 010-0193-00 PROBE PACKAGE, P6011, 3.5 foot
- 010-0190-00 PROBE PACKAGE, P6011, 6 foot
- 010-0229-00 PROBE PACKAGE, P6011, 9 foot package includes:

PROBE ONLY

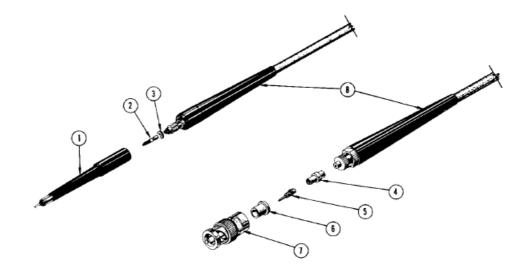
- 1 010-0192 00 PROBE, P601 I, 3.S foot
- 010-0189-00 PROBE, P601 I, 6 fool
- 010-0228-00 PRO BE, P601 I, 9 fool

STANDARD ACCESSORIES

- 2 013-0090-00 HOOK TIP, retractable
- 3 175-0l2S-OO CABLE, ground lead, 12 inch
- 4 175-0124-00 CABLE, ground lead 5 inch
- 5 I 66-0404-00 TUBE, insulating, molded
- 6 ~4-0046'00 CLIP, probe
- 7 166-0433-00 X67.46 7009 SLEEVE, insulating, gnu, trip

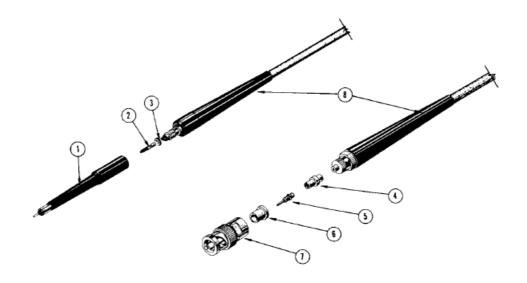
- 166-0433-01 7010 TUBE, ,nsulalrng, molded
- 8 206-0114•00 TIP, probe
- 9 352-0090-00 2-2 HOLDER, probe
- 006-03S1 -00 BAG, plo111c, 4 x 6 in, he, (not shown)
- 070-0512-0I MANUAL, instruction !not shown)
- 367-0105-00 X6926 HANDLE, hook hop !not shown)

REPLACEABLE PARTS (3.5 foot)



REF.	TEKTRONIX	SERIAL/ MODEL NO.	Т	DESCRIPTION
NO.	PART NO.	EFF. DISC.	Y.	1234s
ı	010-0192-00 204-0252-01			PROBE, P601 I, 3.5 foot probe includes: ASSEM BLY, body and sleeve
2	214-0592-00			PLUG, male
3	210-0997-00			WASHER, guide
4	361-0022-00			SPACER
5	214-0109-01			PI N, contact
6	358-0072-00			BUSH I NG, insulator
7	134-0044-00			PLUG, probe
8	175-0337-03			CABLE, ASSEMBLY, 3.5 foot
	200-0372-00			CAP, plastic protective (not shown)
	015-0201-00			ADAPTER, probe tip, IC test (not shown)

REPLACEABLE PARTS (6 foot)

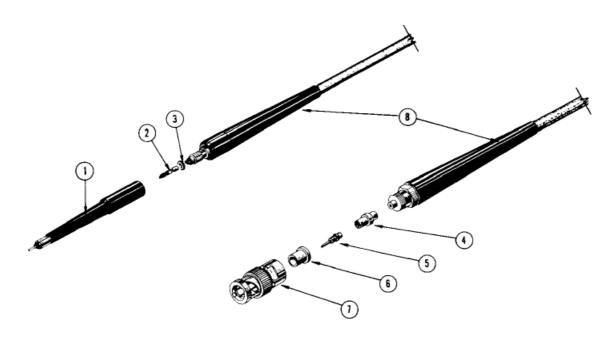


REF. TEKTRONIX NO. PART NO. SERIAL_MODEL NO. EFF. DISC.

DESCRIPTION

1	010-0189-00 204-0252-01	PROBE, P6011, 6 foot probe includes, ASSEMBLY, body and sleeve
2	214-0592-00	PLUG, male
3	21 0-0997-00	WASHER, guide
4	361-0022-00	SPACER
5	214-0109-01	PIN, contact
6	358-0072-00	BUSHING, insulator
7	134-0044-00	PLUG, probe
8	175-0337-02	CABLE ASSEMBLY, 6 foot
	200-0372-00	CAP, plastic, protective (not shown)
	015-0201-00	ADAPTER, probe tip, IC test (not shown)

REPLACEABLE PARTS 19 foot}



RE F. N O.	TEKTRONI X PART NO	SERIAL/ MODEL NO. EFF. DISC.	Q T Y.	DESCRIPTION 1 2 3 4 s
	010-0228-0 0 1 204-0252 -01			PROBE, P6011, 9 foot probe includes, ASSEMBLY, body and sleeve
	2 214-0592 -00			PLUG, male
	3 210-0997 -00			WASHER, guide
	4 361-0022 -00			SPACER
	5 214-0109 -01			PIN, contact
	6 358-0072 -00			BUSHING, insulator
	7 134-0044 -00			PLUG, probe
	8 175-0471 -00			CABLE ASSEMBLY, 9 foot
	200-0372-0 0			CAP, plastic, protective (not shown)
	015-0201-0 0			ADAPTER, probe tip, IC test [not shown)

Documents / Resources



<u>Tektronix P6011 Passive Probe</u> [pdf] Instruction Manual P6011, Passive Probe, P6011 Passive Probe, Probe

Manuals+, home privacy