

SPECIFICATIONS (All Options)

Description

The P6136 is a 350 MHz, 10X, 1.3-meter, passive voltage probe designed specifically for use with the TEKTRONIX 2400 Series oscilloscopes having bandwidths greater than 150 MHz. The P6136 comes standard with the Tektronix *subminiature*-size probe tip/hybrid assembly and is fully compatible with the Tektronix *subminiature* family of accessories. The new *compact* series probe tip/hybrid assembly comes standard on the P6136 Option 25. The *compact* probe tip/hybrid assembly is slightly larger in diameter than the *subminiature*, which offers a greater durability and ruggedness in those environments and applications where required. The *compact* tip is not compatible with the *subminiature* series except for the ground collar and the low inductance (2.3 inch) ground lead. The P6136 Option 25 is supplied with the same complement of accessories as the P6136 Standard. Optional accessories are available for both sizes of tips. Both probe tip assemblies may be converted to the Tektronix *miniature* series probe tip by using the subminiature/compact-to-miniature probe-tip adapter (see the optional accessories sections for each probe).

Electrical Characteristics

(Probe Installed On 2400 Series Oscilloscopes Of >150 MHz)

Attenuational (System): 10X $\pm 1\%$ at dc.

Input Resistance (System): 10 M Ω $\pm 1\%$ at dc. (See Figure 1.)

Input Capacitance (See Figure 1.): ≈ 10.8 pF at dc.

Compensation Range: 12 pF to 18 pF.

Signal Delay: Delay difference between any two probes is < 200 ps.

Maximum System Bandwidth (-3 dB): 350 MHz.

Maximum Nondestructive Input Voltage:

500 V (dc + peak ac) to 1.3 MHz. (See Figure 2 for voltage derating curve.)

Environmental Characteristics

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

Temperature Range (Nonoperating): -62°C to 85°C (-80°F to 185°F).

Humidity:

Five cycles (120 hr) at 95% to 97% relative humidity. Per Tek Standard 062-2847-00, Class 3.

Ref to MIL-E-16400F, paragraph 4.5.9 through 4.5.9.5.1, class 4.

Physical Characteristics

Net Weight (Includes Accessories): 108 g (3.8 oz).

Probe Cable Length: 1.3 m (4.3 ft).

Safety

To avoid explosion, do not operate this product in an explosive atmosphere unless it has been specifically certified for such operation.

The P6136 is UL listed.

INSTRUCTION
SHEET
070-6025-01
PRODUCT GROUP 60

TEK PROBE
AND ACCESSORIES

P6136

10X PASSIVE PROBE

STANDARD AND OPTION 25
FOR 2400 SERIES OSCILLOSCOPES

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COMMITTED TO EXCELLENCE

SPECIFICATIONS (All Options)

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(Probe Installed On 2400 Series Oscilloscopes Of >150 MHz)

Attenuational (System): 10X $\pm 1\%$ at dc.

Input Resistance (System): 10 M Ω $\pm 1\%$ at dc. (See Figure 1.)

Input Capacitance (See Figure 1.): ≈ 10.8 pF at dc.

Compensation Range: 12 pF to 18 pF.

Signal Delay: Delay difference between any two probes is < 200 ps.

Maximum System Bandwidth (-3 dB): 350 MHz.

Maximum Nondestructive Input Voltage:

500 V (dc + peak ac) to 1.3 MHz. (See Figure 2 for voltage derating curve.)

Environmental Characteristics

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

Temperature Range (Nonoperating): -62°C to 85°C (-80°F to 185°F).

Humidity:

Five cycles (120 hr) at 95% to 97% relative humidity. Per Tek Standard 062-2847-00, Class 3.

Ref to MIL-E-16400F, paragraph 4.5.9 through 4.5.9.5.1, class 4.

Physical Characteristics

Net Weight (Includes Accessories): 108 g (3.8 oz).

Probe Cable Length: 1.3 m (4.3 ft).

Safety

To avoid explosion, do not operate this product in an explosive atmosphere unless it has been specifically certified for such operation.

The P6136 is UL listed.

INSTRUCTION
SHEET
070-6025-01
PRODUCT GROUP 60

TEK

PROBE
AND ACCESSORIES

P6136

10X PASSIVE PROBE

STANDARD AND OPTION 25
FOR 2400 SERIES OSCILLOSCOPES

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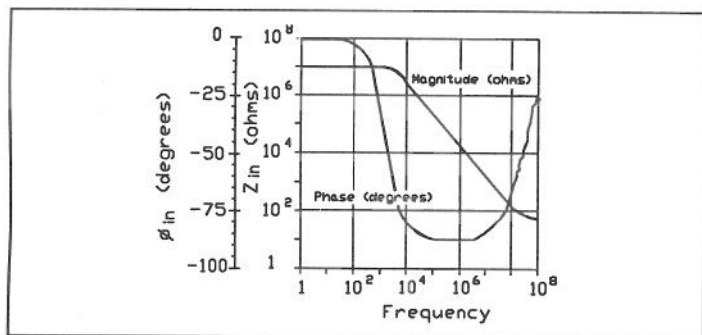


Figure 1. Typical Input Impedance.

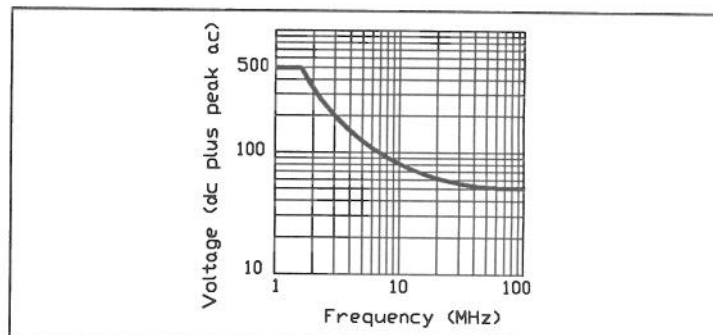


Figure 2. Typical Voltage Derating.

OPERATING CONSIDERATIONS

Probe Compensation. Due to variations in oscilloscope input characteristics, probe low-frequency compensation should be checked and adjusted after moving the probe from one input to another. To adjust low-frequency compensation, apply a 1 kHz square-wave signal (such as an oscilloscope calibrator output) to the probe tip. Using a non-conductive low-reactance alignment tool, adjust the probe's compensation capacitor through the hole in the compensation box to obtain the squarest waveform at front corner.

Inductive Effects of Probe Grounding. Ground Lead inductance can significantly reduce the performance of a probe. As shown

in the model (Figure 3), the ground lead inserts a series inductance into the signal path forming a series-resonant circuit consisting of C_{in} of the probe and ground lead inductance, with only R_{source} as damping. This forms a resonant circuit with $f_o = 1 / (2\pi \sqrt{LC})$. A six-inch ground lead has ≈ 150 nH of inductance causing an f_o of ≈ 130 MHz, which is within the frequency response of the instrument. This greatly degrades risetime, bandwidth, and transient accuracy (Figure 4). For best results, make sure that the ground lead inductance is at a minimum. Three methods for doing so are described in Figure 5.

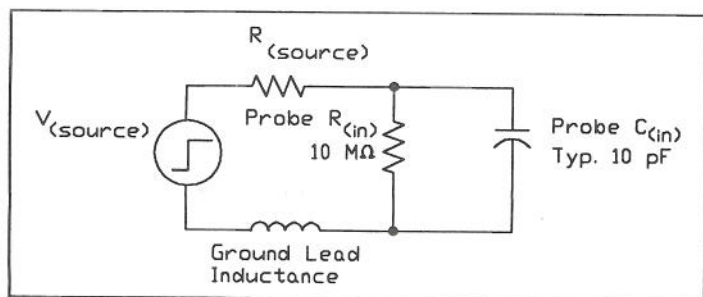


Figure 3. Circuit Model: Test Point and Probe Input.

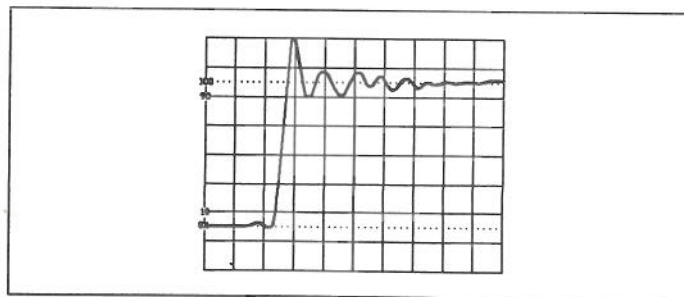
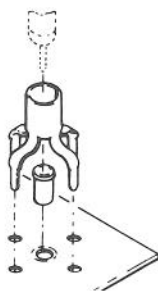


Figure 4. Typical Step Response With a 6" Ground Lead.



ECB to Probe-Tip Adapters provide high quality connection test points when installed on circuit boards. The ribbed-plastic tip shell on the probe must be removed. The probe will then plug into the test point directly. Adapters are available in packages of 100, for both the compact probe tip and the subminiature probe tip (see "Replaceable Parts").



The Low-Inductance Lead provided with all Tek P6136 probes allow for a substantial reduction of ground-lead inductance (≈ 32 nH instead of 150 nH). To use, unscrew and remove the ribbed tip shell and slide off the ground collar with ground lead. Slip on the low-inductance ground lead collar (1) and reinstall the ribbed plastic tip cover. Install the low-inductance lead (2) from the accessory pack.



The Tektronix Klipkit (optional, see "Replaceable Parts"), (useable on all options except option 25) provides a hands-off connection of signal and ground to an IC (up to 16 pins). Klipkit ground is acquired by inserting a connecting pin (included) into the Klipkit at the proper pin location. The probe body, with the ribbed shell tip removed, will then make ground contact when inserted into the other contact locations.

Figure 5. Methods Of Reducing The Effect Of Ground-Lead Inductance.

P6136 SERVICE INFORMATION

WARNING

The following servicing instructions are for use by qualified personnel only. To avoid electric shock, do not disassemble the probe or perform any probe maintenance while the probe is connected to a signal source.

Table 1
Test Equipment Required

| Item Number and Description | Minimum Specification | Example of Test Equipment |
|--|--|--|
| 1. Oscilloscope | Input Resistance: 1 M Ω \pm 0.5% Input Capacitance: 12 pF -18 pF Bandwidth (-3dB) \geq 350. | Tektronix , 2465A or 2467 Only. |
| 2. Calibration Generator | Amplitude: > 60 V Rep rate: 100 kHz. | Tektronix PG506. |
| 3. Calibration Fixture: Tunnel Diode Pulser | Pulse risetime: \leq 125 ps Amplitude: \geq 0.25V into 50 Ω . | Tektronix Part Number: 067-0681-01 or equivalent. |
| 4. Leveled Sine-Wave Generator. | Amplitude adjustable up to at least 1V p-p into 50 Ω , Frequency range must exceed 350 MHz, fixed 50 KHz ref. | Tektronix SG504. |
| 5. Precision Coaxial | 50 Ω , 36 inch, BNC. | Tektronix Part Number: 012-0482-00. |
| 6. 10X Attenuator | 50 Ω , BNC. | Tektronix Part Number: 011-0059-02. |
| 7. Adapters | For Subminiature tips use: Subminiature-to-GR, 50 Ω terminated BNC-to-GR | Tektronix Part Number: 017-0063-00, 017-0520-00. |
| | For Compact tips use: Compact-to-BNC, 50 Ω terminated BNC-Female-to-BNC-Female. | 013-0227-00 103-0028-00. |
| 8. Low Reactance Adjustment Tool | Insulated, low reactance. | Tektronix Part Number: 003-1364-00, 003-1364-01. |

Adjustment Procedure

Refer to Table 1 for equipment requirements.

1. Adjust Low-Frequency Compensation.

a. Connect the P6136 to the oscilloscope CH 1 input. Set oscilloscope controls for 100 mV (includes probe 10X attenuation), 1 ms and DC coupling. Connect the probe input (using the hook-tip) to the oscilloscope CALIBRATOR output. Set the triggering controls for a stable display, approximately 5 cycles of square wave, and an amplitude of 4 divisions (centered on the screen).

b. ADJUST—Low-Frequency compensation (LF COMP) using a low-reactance non-conductive adjustment tool for the squarest waveform front corner. See Figure 6. Disconnect the test setup.

2. Check/Adjust High-Frequency Compensation.

a. Connect the AMPL OUTPUT (HIGH) of the calibration generator, through the BNC cable, to the input of the calibration fixture. Connect the output of the calibration fixture, through the 10X attenuator, to the oscilloscope CH 1 input. Set the oscilloscope controls for 5 mV and 20 ns, 50 Ω DC coupling. Adjust the pulse amplitude and the calibra-

tion fixture to produce a 5-division display on the oscilloscope. Set the triggering controls for a stable display and center the display. Note the system aberrations for comparison in part b.

b. Remove the 10X attenuator from the oscilloscope input and the calibration fixture. Connect the probe to the oscilloscope CH 1 input. Connect the probe tip through the probe-tip-to-BNC 50 Ω adapter and the female BNC-to-BNC adapter (or the BNC-to-GR and the 50 Ω GR-to-probe-tip adapter) to the output of the calibration fixture. Set the oscilloscope coupling to the 1 M Ω DC position. Check high frequency aberrations in the first 30 ns (in addition to system aberrations noted in part 2a). If probe aberrations (typically $\leq \pm 4\%$, 6% p-p) are excessive, proceed to part 2c. If they are not, proceed with part d.

c. To remove the plastic cover from the probe compensation box, first disconnect the probe from the signal source and the oscilloscope. Unscrew the compensation box retainer nut about two complete turns and lift the cover out and up, then re-tighten the retainer. Reconnect the probe (as in part 2b). See Figure 6 for the location of all adjustments, and Figure 7 for identification of the waveform area affected by each adjustment. ADJUST R1 for best overall flat response. ADJUST R3, R2, and C1 for best corner response. The high-frequency adjustments affect the probe bandwidth. A small overshoot on the leading edge of the pulse may be necessary to meet the bandwidth specification. Reinstall the compensation box cover by reversing the procedure described above.

d. Disconnect the test setup.

3. Bandwidth Check.

Connect the P6136 probe output to the oscilloscope CH 1 input. Connect the probe tip through the 50 Ω adapters (used in part 2b), to the output of the Leveled Sine Wave Generator described in Table 1. Set the oscilloscope controls for 100 mV (includes probe 10X attenuation), 1 ms, and 1 M Ω DC coupling. Set the leveled sine wave generator frequency to 50 kHz. Adjust the generator output amplitude to produce a 6-division display on the oscilloscope. Center the display on the screen. Set the generator frequency-range switch to the high-frequency position and slowly increase the setting of the variable frequency control until the display amplitude decreases to 4.2 divisions (-3dB). Check the sine-wave generator frequency readout. The frequency must be greater than or equal to the oscilloscope's rated bandwidth. If the reading is less than the required value, repeat the adjustments in part 2.

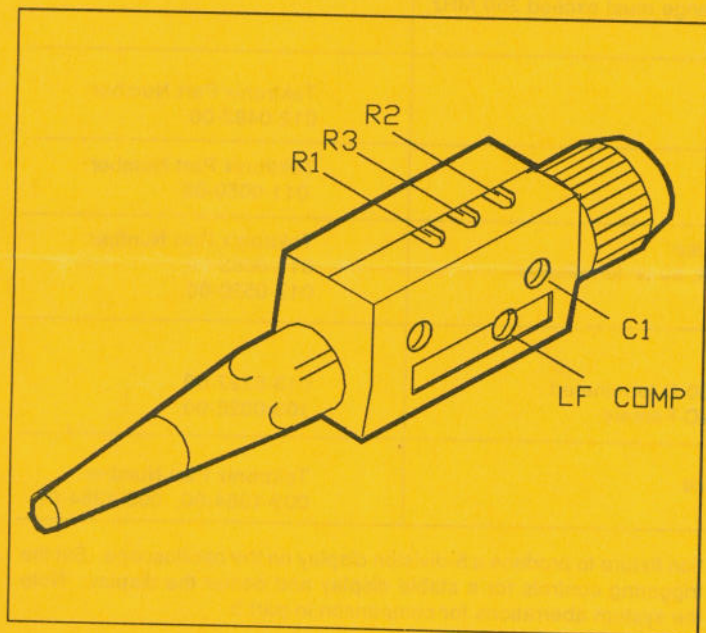


Figure 6. High-Frequency Adjustment Locations.

Maintenance

Cleaning. Accumulated dirt can be removed with a soft cloth dampened with a nonresidue type cleaner, preferably isopropyl alcohol. Before using any other type of cleaner, consult your Tektronix Service Center or representative. In particular, avoid benzene, toluene, xylene, acetone, or similar solvents.

Probe Module Replacement. Modular construction has been used to simplify repair. The probe tip assembly, compensation box, and cable are available as separate units through your local Tektronix Field Office or representative. Individual components within the compensation box are not replaceable. The probe tip assembly unscrews from the probe head/cable assembly. To disconnect the cable from the compensation box, unscrew the compensation box retainer nut about two complete turns and pull out the cable until it separates from the compensation box. Reconnect the cable to the compensation box by reversing the procedure described above.

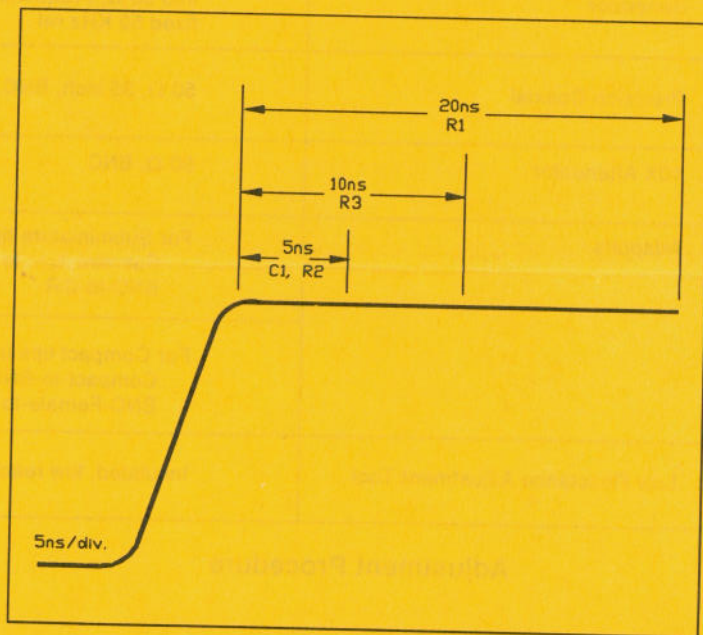


Figure 7. High-Frequency Adjustments Relative To Affected Areas Of The Waveform.

P6136

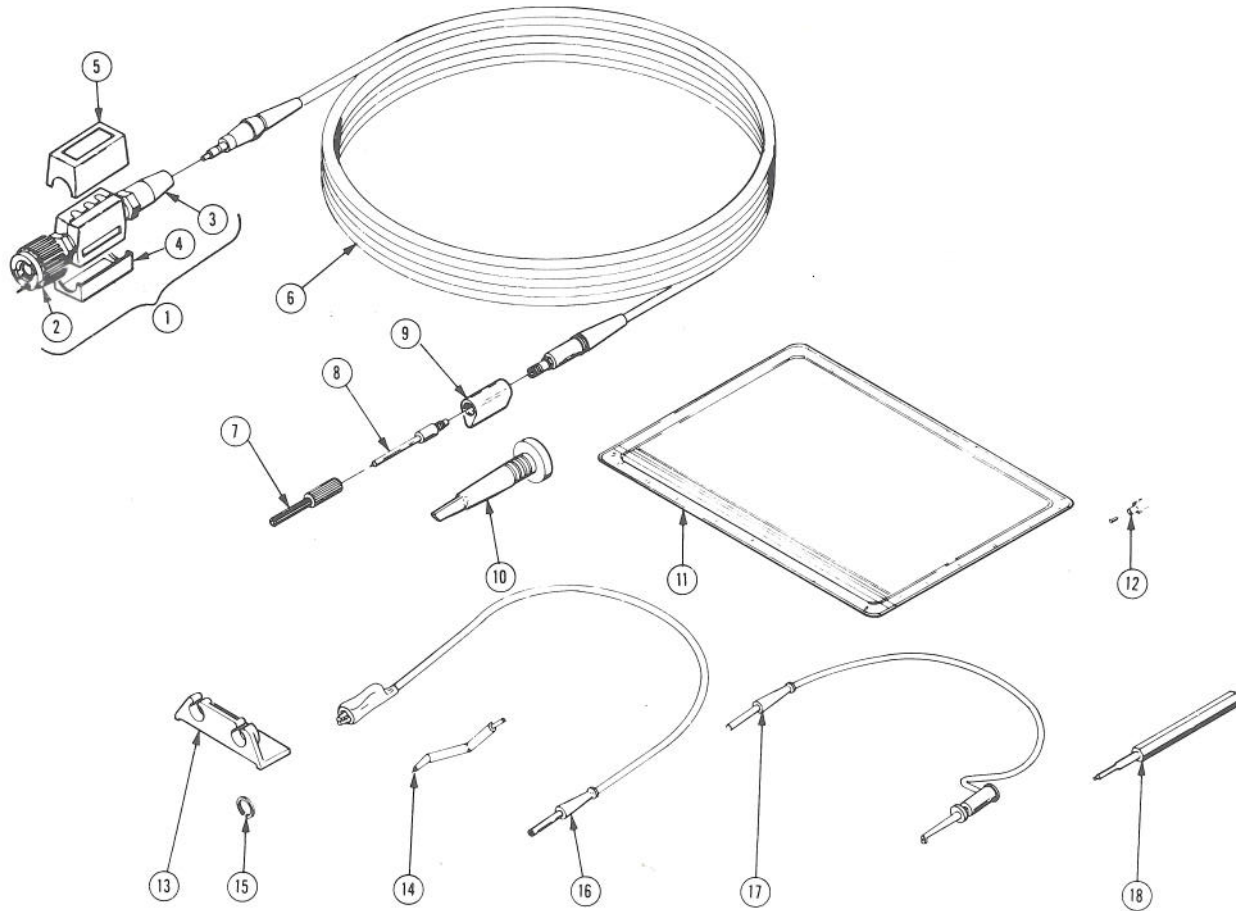
REPLACEABLE PARTS LIST

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CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

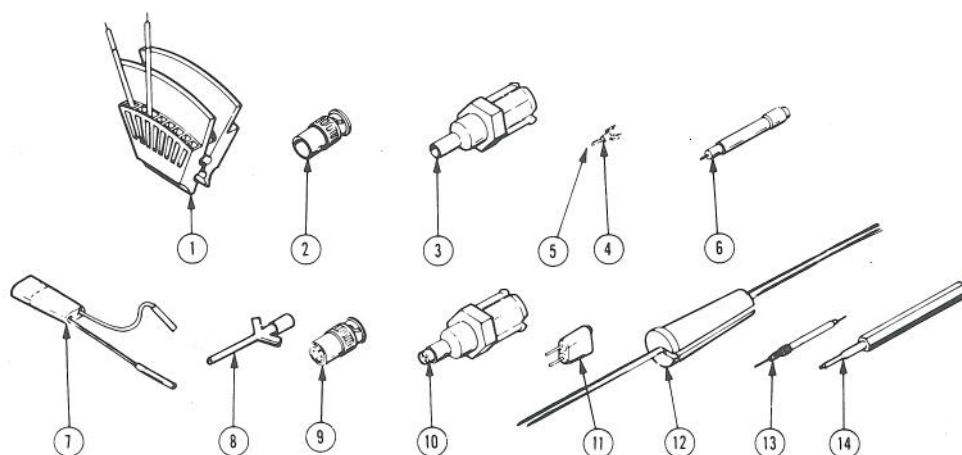
| Mfr. Code | Manufacturer | Address | City, State, Zip Code |
|--------------|-------------------------------|--|-------------------------|
| 24931 | SPECIALTY CONNECTOR CO INC | 2100 EARLYWOOD DR PO BOX 547 | FRANKLIN IN 46131 |
| 80009 | TEKTRONIX INC | 14150 SW KARL BRAUN DR PO BOX 500 MS 53-111 | BEAVERTON OR 97707-0001 |
| TK1473 | RICHARD HIRSCHMANN OF AMERICA | PO BOX 229/INDUSTRIAL ROW | RIVERDALE NJ 07457 |
| TK1556 | CONSOLIDATED VINYL SALES | 1237 S SAN GABRIEL BLVD | SAN GABRIEL CA 91776 |

**P6136 Replaceable Parts
(Subminiature Tip)
With Standard Accessories**



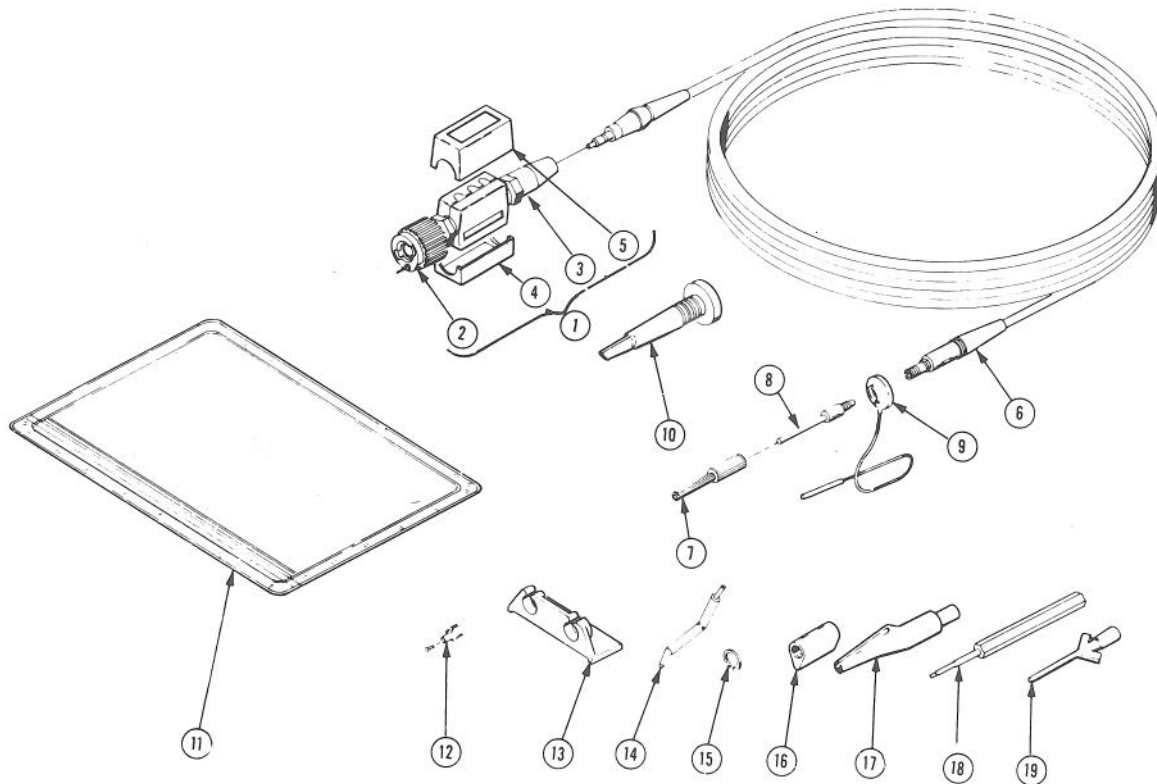
| Index No. | Tektronix Part No. | Serial/Assembly No. Effective | Discont | Qty | 12345 | Name & Description | Mfr. Code | Mfr. Part No. |
|----------------------------|--------------------|-------------------------------|---------|-----|-------|---|-----------|-----------------|
| P6136 PROBE, 1.3 METER | | | | | | | | |
| -1 | 206-0359-00 | | | 1 | | COMP BOX ASSY:P6136,1.3 METER | 80009 | 206-0359-00 |
| -2 | 131-3219-00 | | | 1 | | .CONN,RCPT,ELEC:BNC,MALE | 80009 | 131-3219-00 |
| -3 | 200-3018-00 | | | 1 | | .COVER,CABLE NIP:COMP BOX | 80009 | 200-3018-00 |
| -4 | 200-3017-00 | | | 1 | | .COVER,COMP BOX:BOTTOM,ABS SLATE GRAY | 80009 | 200-3017-00 |
| -5 | 200-3016-29 | | | 1 | | .COVER,COMP BOX:TOP,1.3 METER,P6136 | 80009 | 200-3016-29 |
| -6 | 174-0261-00 | | 8805 | 1 | | CABLE ASSY,RF:65 OHM PER FT,1.3 METER | 80009 | 174-0261-00 |
| | 174-0978-00 | 8806 | | 1 | | CABLE ASSY,RF:65 OHM COAX PER FT,1.3M | 80009 | 174-0978-00 |
| -7 | 204-0925-01 | | | 1 | | BODY SHL, PROBE: | 80009 | 204-0925-01 |
| -8 | 206-0265-00 | | 8627 | 1 | | TIP,PROBE:10X,10.3PF,CLEAR/BLUE | 80009 | 206-0265-00 |
| | 206-0265-10 | 8628 | | 1 | | TIP,PROBE:10X,10.3PF,CLEAR/BLUE | 80009 | 206-0265-10 |
| P6136 STANDARD ACCESSORIES | | | | | | | | |
| -9 | 343-1003-01 | | | 1 | | COLLAR,GND: | 80009 | 343-1003-01 |
| -10 | 013-0208-00 | | 8627 | 1 | | TIP,PROBE:RETRACTABLE HOOK | 80009 | 013-0208-00 |
| | 013-0208-01 | 8628 | | 1 | | TIP,PROBE:RETRACTABLE HOOK | 80009 | 013-0208-01 |
| -11 | 016-0708-00 | | | 1 | | POUCH,ACCESSORY: | TK1556 | ZIP-6.25X9.25ID |
| -12 | 131-2766-03 | | | 1 | | CONNECTOR,PROBE:W/SOCKET,DATA SHEET | 80009 | 131-2766-03 |
| -13 | 352-0687-00 | | | 1 | | HOLDER,PROBE:SLATE GRAY ABS | 80009 | 352-0687-00 |
| -14 | 195-4240-00 | | | 1 | | LEAD,ELECTRICAL:0.025 DIA,COPPER,2.3 L | 80009 | 195-4240-00 |
| -15 | ----- | | | 8 | | BAND,MARKER:0.371 DIA,PLSTC,ASSORTED COLORS (SEE OPTIONAL ACCESSORIES) | | |
| -16 | 195-1870-00 | | | 1 | | LEAD,ELECTRICAL:26 AWG,8.812 L,0-N | 80009 | 195-1870-00 |
| -17 | 195-4104-00 | | | 1 | | LEAD,ELECTRICAL:23 AWG,6.3 L,0-N | 80009 | 195-4104-00 |
| -18 | 003-1364-01 | | | 1 | | SCREWDRIVER:ADJUSTABLE TOOL,PLASTIC TIP (SEE OPTIONAL ACCESSORIES) | 80009 | 003-1364-01 |
| | 070-6025-01 | | | 1 | | SHEET,TECHNICAL: INSTR,P6136 | 80009 | 070-6025-01 |

P6136 Optional Accessories (Subminiature Tip)



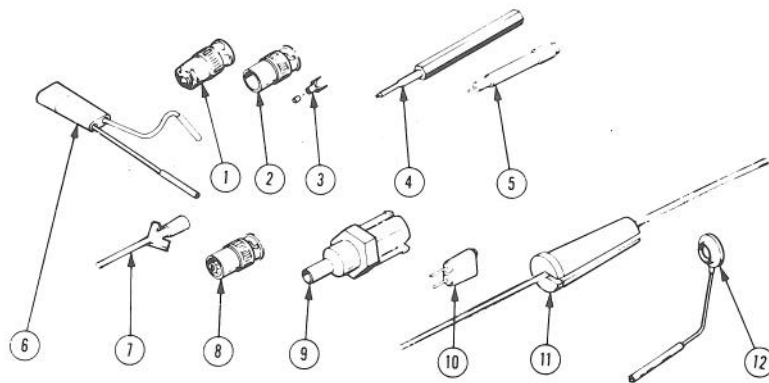
| Index No. | Tektronix Part No. | Serial/Assembly No. Effective | Discont | Qty | 12345 | Name & Description | Mfr. Code | Mfr. Part No. |
|--|--------------------|-------------------------------|---------|-----|-------|--|-----------|---------------|
| P6136 OPTIONAL ACCESSORIES | | | | | | | | |
| -1 | 013-0197-00 | | | 1 | | KLIPKIT:(2)16 PIN CLIP W/(4)CONTACT GROUND | 80009 | 013-0197-00 |
| -2 | 013-0195-00 | | | 1 | | ADAPTER,CONN:BNC TO PROBE | 80009 | 013-0195-00 |
| -3 | 017-0520-00 | | | 1 | | CONN,PLUG,ELEC:50 OHM COAX | 80009 | 017-0520-00 |
| -4 | 131-2766-01 | | | 1 | | CONNECTOR,PROBE:PACKAGE OF 100 | 80009 | 131-2766-01 |
| -5 | 136-0352-02 | | | 1 | | SOCKET,PIN TERM:PKG OF 100 | 80009 | 136-0352-02 |
| -6 | 013-0202-01 | | 8726 | 1 | | ADAPTER,PROBE:MINIATURE PROBE | 80009 | 013-0202-01 |
| | 013-0202-02 | 8727 | | 1 | | ADAPTER,PROBE:SUBMIN/COMPACT TO MINTR | 80009 | 013-0202-02 |
| NOTE: ITEMS 7 THRU 11 ARE USEABLE WHEN THE SUBMINIATURE/COMPACT TO MINIATURE PROBE TIP ADAPTER IS USED. (ITEM 6) | | | | | | | | |
| -7 | 015-0325-00 | | | 1 | | ADAPTER,PROBE:PROBE TO CONNECTOR PINS | 80009 | 015-0325-00 |
| -8 | 206-0364-00 | | | 1 | | TIP,PROBE:MICROCKT TEST,0.05 CTR | 80009 | 206-0364-00 |
| -9 | 013-0084-01 | | | 1 | | ADAPTER,CONN:BNC TO PROBE | 24931 | 28P156-1 |
| -10 | 017-0088-00 | | | 1 | | CONN,PLUG,ELEC:50 OHM,GR | 80009 | 017-0088-00 |
| -11 | 013-0085-00 | | | 1 | | TIP,PROBE:GROUNDING | 80009 | 013-0085-00 |
| -12 | 352-0670-00 | | | 1 | | HOLDER,PROBE:ATTENUATOR TIPS (3) | 80009 | 352-0670-00 |
| -13 | 206-0268-00 | | | 1 | | TIP ASSY,PROBE:1X,SUBMINIATURE | 80009 | 206-0268-00 |
| -14 | 003-1364-02 | | | 1 | | SCREWDRIVER:ADJ TOOL,PLSTC TIP,PKG OF 10 | 80009 | 003-1364-02 |
| | 200-2747-01 | | | 1 | | COVER,PROBE TIP:PKG OF 10 | 80009 | 200-2747-01 |
| | 016-0633-00 | | | 1 | | MARKER SET,CA:2 EA VARIOUS COLORS | 80009 | 016-0633-00 |

**P6136 Option 25 Replaceable Parts
(Compact Tip)
With Standard Accessories**



| Index No. | Tektronix Part No. | Serial/Assembly No. Effective Discont | Qty | 12345 Name & Description | Mfr. Code | Mfr. Part No. |
|--------------------------------------|--------------------|--|-----|---|-----------|-----------------|
| P6136 OPTION 25, 1.3 METER | | | | | | |
| -1 | 206-0359-00 | | 1 | COMP BOX ASSY:P6136,1.3 METER | 80009 | 206-0359-00 |
| -2 | 131-3219-00 | | 1 | .CONN,RCPT,ELEC:BNC,MALE | 80009 | 131-3219-00 |
| -3 | 200-3018-00 | | 1 | .COVER,CABLE NIP:COMP BOX | 80009 | 200-3018-00 |
| -4 | 200-3017-00 | | 1 | .COVER,COMP BOX:BOTTOM,ABS SLATE GRAY | 80009 | 200-3017-00 |
| -5 | 200-3016-29 | | 1 | .COVER,COMP BOX:TOP,1.3 METER,P6136 | 80009 | 200-3016-29 |
| -6 | 174-0261-00 | 8750 | 1 | CABLE ASSY,RF:65 OHM PER FT,1.3 METER | 80009 | 174-0261-00 |
| -7 | 174-0978-00 | 8806 | 1 | CABLE ASSY,RF:65 OHM COAX PER FT,1.3M | 80009 | 174-0978-00 |
| -8 | 204-1049-00 | | 1 | BODY SHELL,PROB:STANDARD | 80009 | 204-1049-00 |
| -8 | 206-0392-00 | | 1 | PROBE TIP ASSY:10X,10.3PF,9M OHM | 80009 | 206-0392-00 |
| P6136 OPTION 25 STANDARD ACCESSORIES | | | | | | |
| -9 | 196-3113-00 | | 1 | LEAD,ELECTRICAL:STRD,26 AWG,6.0 L,0-N W/CLR | 80009 | 196-3113-00 |
| -10 | 013-0107-06 | | 1 | TIP,PROBE:RETRACTABLE HOOK ASSY | 80009 | 013-0107-06 |
| -11 | 016-0708-00 | | 1 | POUCH,ACCESSORY: | TK1556 | ZIP-6.25X9.25ID |
| -12 | ----- | | 1 | CONNECTOR,PROBE:W/SOCKET,DATA SHEET (SEE OPTIONAL ACCESSORIES) | | |
| -13 | 352-0687-00 | | 1 | HOLDER,PROBE:SLATE GRAY ABS | 80009 | 352-0687-00 |
| -14 | 195-4240-00 | | 1 | LEAD,ELECTRICAL:0.025 DIA,COPPER,2.3 L | 80009 | 195-4240-00 |
| -15 | ----- | | 8 | BAND,MARKER:0.371 DIA,PLSTC,ASSORTED COLORS (SEE OPTIONAL ACCESSORIES) | | |
| -16 | 343-1003-01 | | 1 | COLLAR,GND: | 80009 | 343-1003-01 |
| -17 | 344-0398-00 | | 1 | CLIP,ELECTRICAL:ALLIGATOR | 80009 | 344-0398-00 |
| -18 | 003-1364-01 | | 1 | SCREWDRIVER:ADJUSTABLE TOOL,PLASTIC TIP (SEE OPTIONAL ACCESSORIES) | 80009 | 003-1364-01 |
| -19 | 013-0217-00 | | 1 | GRABBER,IC LEAD:BLACK,2.047 L X 0.137 DIA | TK1473 | 973 592 500 |
| | 070-6025-01 | | 1 | SHEET,TECHNICAL:INSTR,P6136 | 80009 | 070-6025-01 |

P6136 Option 25 Optional Accessories (Compact Tip)



| Index No. | Tektronix Part No. | Serial/Assembly No. Effective | Discont | Qty | 12345 Name & Description | Mfr. Code | Mfr. Part No. |
|--|--------------------|-------------------------------|---------|-----|--|-----------|---------------|
| P6136 OPTION 25 OPTIONAL ACCESSORIES | | | | | | | |
| -1 | 013-0226-00 | | | 1 | CONNECTOR,BNC:BNC TO PROBE TIP ADAPTER | 80009 | 013-0226-00 |
| -2 | 013-0227-00 | | | 1 | CONNECTOR,BNC:TO PROBE TIP ADPTR,50 OHM | 80009 | 013-0227-00 |
| -3 | 131-4244-00 | | | 1 | CONN,PROBE:PKG OF 100 EACH | 80009 | 131-4244-00 |
| -4 | 003-1364-02 | | | 1 | SCREWDRIVER:ADJ TOOL,PLSTC TIP,PKG OF 10 | 80009 | 003-1364-02 |
| -5 | 013-0202-02 | | | 1 | ADAPTER,PROBE:SUBMIN/COMPACT TO MINTR | 80009 | 013-0202-02 |
| NOTE; ITEMS 6 THRU 10 ARE USEABLE WHEN THE SUBMINIATURE/COMPACT TO MINIATURE PROBE TIP ADAPTER IS USED. (ITEM 5) | | | | | | | |
| -6 | 015-0325-00 | | | 1 | ADAPTER,PROBE:PROBE TO CONNECTOR PINS | 80009 | 015-0325-00 |
| -7 | 206-0364-00 | | | 1 | TIP,PROBE:MICROCKT TEST,0.05 CTR | 80009 | 206-0364-00 |
| -8 | 013-0084-01 | | | 1 | ADAPTER,CONN:BNC TO PROBE | 24931 | 28P156-1 |
| -9 | 017-0088-00 | | | 1 | CONN,PLUG,ELEC:50 OHM,GR | 80009 | 017-0088-00 |
| -10 | 013-0085-00 | | | 1 | TIP,PROBE:GROUNDING | 80009 | 013-0085-00 |
| -11 | 352-0670-00 | | | 1 | HOLDER,PROBE:ATTENUATOR TIPS (3) | 80009 | 352-0670-00 |
| -12 | 196-3113-01 | | | 1 | LEAD,ELECTRICAL:STRD,26 AWG,3.0 L | 80009 | 196-3113-01 |
| | 015-0201-07 | | | 1 | TIP,PROBE:IC TEST,PKG OF 10 | 80009 | 015-0201-07 |
| | 015-0201-08 | | | 1 | TIP,PROBE:IC TEST,PKG OF 100 | 80009 | 015-0201-08 |
| | 016-0633-00 | | | 1 | MARKER SET,CA:2 EA VARIOUS COLORS | 80009 | 016-0633-00 |