## **Instructions**

## Tektronix

P6464 & P6465 TTL/ECL Pattern Generator Probes 070-5475-00

First Printing: February 1985 Revised Printing: May 1991

#### **Instrument Serial Numbers**

Each instrument manufactured by Tektronix has a serial number on a panel insert or tag, or stamped on the chassis. The first letter in the serial number 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:

B010000	Tektronix, Inc., Beaverton, Oregon, USA
E200000	Tektronix United Kingdom, Ltd., London
J300000	Sony/Tektronix, Japan

H700000 Tektronix Holland, NV, Heerenveen, The Netherlands

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Instruments manufactured for Tektronix by external vendors outside the United States are assigned a two digit alpha code to identify the country of manufacture (e.g., JP for Japan, HK for Hong Kong, IL for Israel, etc.).

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

Printed in U.S.A.

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#### **NOTE**

This sheet is intended as an introduction only. For complete operator's information, refer to the (DAS 9100) 91S16/91S32 DAS Operator's Addendum or (DAS 9200) 92S16/32 User Manual

The P6464/P6465 TTL/ECL Pattern Generator Probe is designed for use with the DAS 9100 Series 92S16 or 92S32 Pattern Generator modules and the DAS 9200 Series 92S16 or 92S32 Pattern Generator modules.

The P6464/P6465 supplies TTL or ECL stimulus outputs at pulse rates up to 50 MHz. The probe outputs eight data channels, a clock line and a strobe line. Each output consists of an active pin driver (podlet) at the end of an individual flex cable. The podlets are designed to slip over square pins on your circuit. If your circuit does not have square pins, use the gripper tips and leads sets that are provided. Each driver can be inhibited (tri–stated) by the pattern generator module.

## CAUTION

To avoid corrosion, the user's square pins should be gold plated.

The P6464/P6465 receives power from the user's circuit through the three sense leads connected to the front of the probe: red VH (voltage high), a black VL (voltage low), and a green for ground.

The P6464/P6465 can occupy pod connectors A and B at the rear of a 91S16 or 92S16. Pod connector C (Pod D on 92S16) is for a P6460 External Control Probe. Pod connectors A, B, C and D on the 91S32 and the 92S32 modules are for P6464/P6465 probes only.

The DAS 9100 and DAS 9200 use different methods to display the bus slot location of installed modules. For the DAS 9100 press the STOP key on the DAS keyboard while holding the SHIFT key down. To make sure the probe is positioned correctly, press the pod ID button located next to the main cable outlet at the base of the probe. The probe's pod assignment (module and connector number) will appear at the upper left of the DAS screen. For the DAS 9200 press the probe's pod ID button to display the slot and pod location in the upper left of the DAS screen.

## EAUTION §

To avoid damaging the P6464/P6465 when removing it from a module, always grasp the probe by the connector housing, never pull on the cable. To avoid damaging the podlets when removing them from the circuit under test, always grasp the podlet housing, never pull on the flex cable.

### STANDARD ACCESSORIES

1	070-5475-00	P6464/P6465 Instruction Sheet
23	206-0364-00	Gripper-style probe tips
1	334-6093-00	Sheet of podlet identification labels
10	196-2963-00	Two wire leads sets, 3.1 inches long.

#### SERVICE INFORMATION

Refer to the 91S16/91S32 DAS Service Addendum or to the DAS 9200 Technicians Reference Manual.



## Instructions

## P6464/P6465 TTL/ECL PATTERN GENERATOR PROBE

For DAS 9100 and 9200 Mainframes

## **OPERATOR'S INFORMATION**

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## CAUTION

To avoid corrosion, the user's square pins should be gold plated.

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The P6464/P6465 can occupy pod connectors A and B at the rear of a 91S16 or 92S16. Pod connector C (Pod D on 92S16) is for a P6460 External Control Probe. Pod connectors A, B, C, and D on the 91S32 and 92S32 modules are for P6464/P6465 probes only.

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### CAUTION

To avoid damaging the P6464/P6465 when removing it from a module, always grasp the probe by the connector housing, never pull on the cable. To avoid damaging the podlets when removing them from the circuit under test, always grasp the podlet housing, never pull on the flex cable.

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### SERVICE INFORMATION

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# **CAUTION**

Because of the fragile nature of acquisition and pattern generation probe podlets, you must use care when connecting or disconnecting podlets to square-pins and when applying power to the probe.

These podlets each contain a hybrid circuit built on a ceramic substrate; the substrate is easily cracked if the podlet is inserted over square-pins and then jerked or pulled at right angles. Be careful that unconnected podlets do not trail onto the ground where they could be stepped on or run over by the wheels of a chair.

Use special care when connecting and applying power to pattern generation probes. The prime cause of open fuses in P6464 and P6465 probes is overvoltage on the probe power supply.

If your probes must be returned for repair, PLEASE USE THE ORIGINAL TRANSIT PACKAGE FOR SHIPMENT. If the original package is no longer available, contact your Tektronix sales representative to arrange for new packaging.