



product modification

050-1413-01

M40839, M61490

Q100 REPLACEMENT

For TEKTRONIX® P6201 Probes

Serial Numbers B010100 - B078999

Field-effect transistor (FET), pn 151-5025-00, replaces FET, pn 151-1023-00 or pn 151-1023-01, which is no longer available. The new FET, which has a different body style, requires a piece of 22 gauge wire to lengthen the source lead. Also, depending on which transistor is being replaced, the lead configuration may vary.

NOTE

If the probe serial number is greater than those listed above or if this kit has been installed, disregard the instructions and use FET, pn 151-5025-00, as a direct replacement for Q100.

Copyright © 1986
Tektronix, Inc.
All Rights Reserved

26-AUG-1986
Supersedes: 050-1413-00

page 1

KIT PARTS LIST:

Ckt. Number	Quantity	Part Number	Description
Q100	1 ea	151-5025-00	Transistor, field-effect, N-chan, Si
	1 ft	-----	Wire, bare, 22AWG, strping
	1 ea	-----	Label, 050-kit

INSTRUCTIONS:

CAUTION

Disconnect the probe input power connector from the mainframe or accessory power supply to prevent accidental destruction of the solid state devices on the circuit boards.

- () 1. Unscrew the outer probe body in a clockwise direction (as viewed from the probe tip) while holding the inner probe body (refer to Fig. 1).
- () 2. Slide the outer probe body back to gain access to the Probe circuit board.

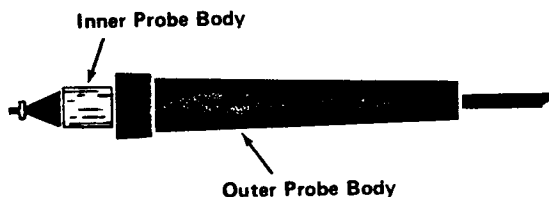


Fig. 1 - Probe Body

NOTE

The new field-effect transistor used for Q100 has a different lead configuration and body style than the old transistors (see Fig. 2).

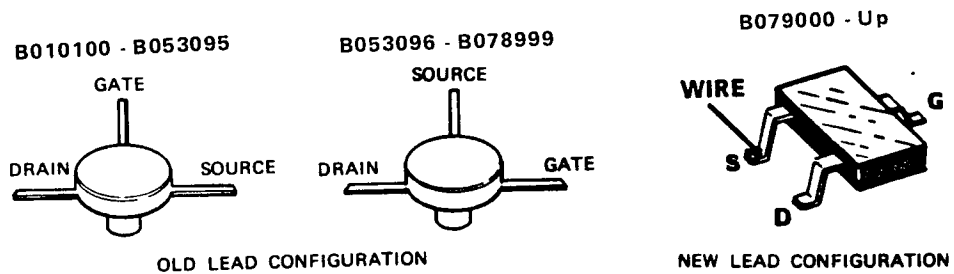


Fig. 2 - Lead Configuration Comparisons

- () 3. Replace the defective field-effect transistor, Q100, with the new transistor provided in the kit, soldering it to the circuit board as shown in Fig. 3.

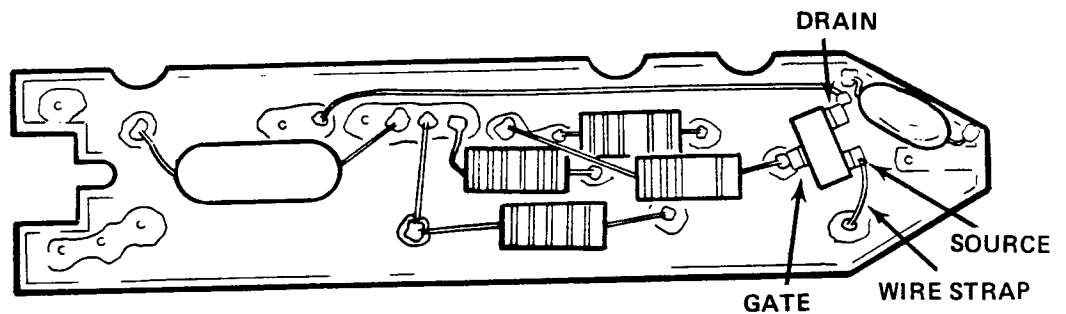


Fig. 3 - Q100 Installation

- () 4. Install the outer probe body by performing the reverse of the procedure in steps 1 and 2.
- () 5. Refer to the Calibration Section (5) of the Instruction Manual and make any necessary checks and adjustments.
- () 6. Remove the protective backing from the 050-kit label (included in the kit) and place it on a clean, dry area on the Output Amplifier housing. The label indicates installation of this kit.
- () 7. For future reference, update the Replaceable Electrical Parts List in the Instruction Manual with the information contained in the kit parts list.

RH: rh