



product modification

050-2630-00

M70834

DIGITAL ACQUISITION MICROCIRCUIT REPLACEMENT

For the following TEKTRONIX® Oscilloscopes:

2224 Serial Numbers B010100 - B010114

2232 Serial Numbers B010100 - B010355

A new digital acquisition microcircuit, pn 156-3610-01, replaces pn 156-3610-00 which is no longer available. Use of the new microcircuit requires some wiring changes.

NOTE

If the instrument serial number is greater than those listed above or if this kit has been previously installed, disregard the instructions and use pn 156-3610-01 as a direct replacement for the digital acquisition microcircuit.

CAUTION

STATIC SENSITIVE DEVICES

Static discharge can damage any semiconductor component in this instrument. Static voltages of 1kV to 30kV are common in unprotected environments.

TO AVOID DAMAGE, OBSERVE THE FOLLOWING:

1. Minimize handling of static-sensitive components.
2. Transport and store static-sensitive components or assemblies in their original containers, on a metal rail, or on conductive foam. Label any package that contains static-sensitive assemblies or components.
3. Discharge the static voltage from your body by wearing a wrist-strap while handling these components. Servicing static-sensitive assemblies or components should be performed only at a static-free work station by qualified service personnel.
4. Nothing capable of generating or holding a static charge should be allowed on the work station surface.
5. Keep the component leads shorted together whenever possible.
6. Pick up components by the body, never by the leads.
7. Do not slide the components over any surface.
8. Avoid handling components in areas that have a floor or work-surface covering capable of retaining a static-charge.
9. Use a soldering iron that is connected to earth ground.
10. Use only approved, anti-static type, desoldering tools.

KIT PARTS LIST:

Ckt. No.	Quantity	Part Number	Description
	1 ea	131-0566-00	Bus conductor: 0Ω resistor
U4000	1 ea	156-3610-01	Microcircuit, dgtl: CMOS, time base/point, 100 MHz
	1 ea	-----	Label: 050-kit

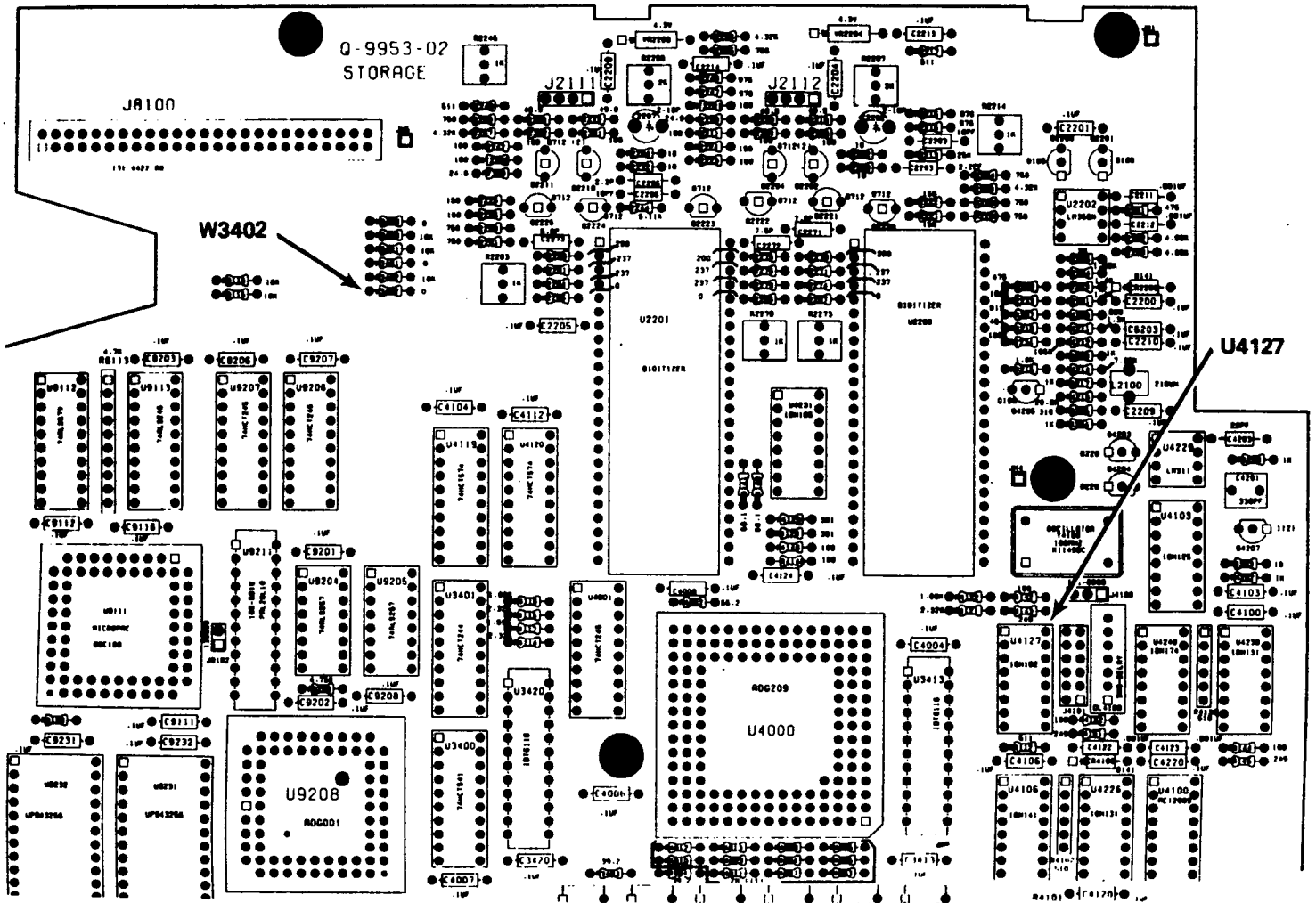


Fig. 1. Component Location on Storage Board.

INSTALLATION INSTRUCTIONS:

WARNING

Dangerous shock hazards may be exposed when the instrument cabinet is removed. Before proceeding, ensure the POWER switch is in the OFF position, then disconnect the instrument from the power source. Disassembly should only be attempted by qualified service personnel.

- () 1. Remove the instrument wrap-around cabinet.

Refer to Fig. 1 for component locations.
- () 2. Perform this step only on 2232 instruments below serial number B010150 that have the 671-0796-01 Storage board installed.
 - () a. Remove the wire strap connected between Pin 11 of U4127 and pin 1 of DL4100.
 - () b. Install a wire strap from Pin 11 of U4127 to pin 4 of DL4100.
 - () c. Proceed to step 4.
- () 3. On 2224's and 2232's above serial number B010150, the location of the jumper on J4101 should be on pads 11-12. J4101 is located adjacent to U4127. If necessary relocate the jumper to the correct pads.
- () 4. Install the 0 Ω resistor, included in this kit, at circuit location W3402. Some instruments may already have the 0 Ω resistor present.
- () 5. Replace the digital acquisition microcircuit (U4000) with the new microcircuit included in this kit.
- () 6. Recalibrate the instrument as required.
- () 7. Remove the protective backing from the 050-kit label, included in this kit, and place the label on a clean, flat surface of the rear panel. The label indicates this kit has been installed.

JLG