



050-2180-07

M60858, M60968, M61358
M61386, M61554, M61555
M62939, M63776, M67340

U2160 OR U2260 REPLACEMENT

For the following **TEKTRONIX®** instruments:

- 2445A Serial Numbers B010100 - B017074
- 2455A Serial Numbers 100001 - 10XXXX
- 2465A Serial Numbers B010100 - B023565
- 2467 Serial Numbers B010100 - B012057

Microcircuits, pn 160-3302-09 and pn 160-3303-09, replace U2160 and U2260 (earlier versions are no longer available). Both microcircuits must be replaced simultaneously. In older ~~R362~~ 2467 instruments, R362 must be removed and R669 must be replaced.

NOTE

If the instrument serial number is greater than those listed above or if this kit has been installed, disregard the instructions and use the enclosed microcircuits as direct replacements.

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. Number	Quantity	Part Number	Description
U2160	1 ea	160-3302-09	Microcircuit. dgtl. 32768 x 8. EPROM
U2260	1 ea	160-3303-09	Microcircuit. dgtl. 65536 x 8. EPROM
R669	1 ea	321-0995-00	Resistor. film. 549k Ω . 1%. 0.125W
	1 ea	-----	Label. 050-kit

INSTRUCTIONS:**WARNING**

Before proceeding, ensure the mainframe power switch is in the off position, then disconnect the instrument from the power source.

- () 1. Remove the instrument cabinet.
- () 2. 2467 SN BELOW B011012 ONLY. On the Main circuit board, remove R362 (26.1k Ω) if present. R362, when present, is located piggy-back fashion parallel with R361.
- () 3. 2467 SN BELOW B011012 ONLY. Replace R669 with the 549 Ω resistor included in the kit. Some instruments may already have this change; if so, ignore this step.
- () 4. Replace U2160 with the pn 160-3302-XX microcircuit included in the kit.
- () 5. Replace U2260 with the pn 160-3303-XX microcircuit included in the kit.
- () 6. Check instrument performance and recalibrate as necessary.
- () 7. Re-install the instrument cabinet.
- () 8. Correct the electrical parts list in the Instruction Manual with the information included in the kit instructions.
- () 9. Remove the protective backing from the 050-kit label (included in the kit) and place it on a clean, dry area of the rear panel.

RH:rh

17 3 127 11

17 3 127 11

17 3 127 11

17 3 127 11

17 3 127 11