



050-0487-00

M15940

## READOUT LOGIC IC REPLACEMENT

For TEKTRONIX® 576 Curve Tracers

With Readout Logic Assemblies, Models 1, 2 or 3

Readout Logic microcircuits or integrated circuits, pn 155-0007-01 and pn 155-0008-01, replace the integrated circuits used for U951 and U953, U956 and U960, or U965 and U970. The old integrated circuits, pn 155-0007-00 and pn 155-0008-00, are no longer available. The new microcircuits must be used as a pair to replace one of the above listed pairs. These new microcircuits eliminated the need for the leadage bypass resistors on the back of the Readout circuit board.

### NOTE

If the model number of the Readout Logic assembly is 4 or greater or if this kit has been installed, the included microcircuits may be used individually as replacements for the appropriate microcircuits as indicated in the Parts List on the next page.

## PARTS INCLUDED IN PARTS REPLACEMENT KIT:

Ckt. No.	Quantity	Part Number	Description
U951 U956 or U965	1 ea	155-0007-01	Microckt, dgtl, Readout Logic 1, 2, 5
U953, U960 or U970	1 ea	155-0008-01	Microckt, dgtl, Readout Logic

## INSTRUCTIONS:

**WARNING**

Before proceeding, ensure the Curve Tracer POWER switch is in the OFF position, then disconnect the power cord from the power source.

- ( ) 1. Remove the screw at the bottom of the cathode-ray tube (crt) scale retainer or bezel.
- ( ) 2. Remove the crt bezel.
- ( ) 3. Remove the Readout Logic circuit board assembly by pulling straight out.
- ( ) 4. Replace one of the following pairs of microcircuits with the included microcircuits (see above Parts List for correct part number):
  - ( ) a. U951 and U953.
  - ( ) b. U956 and U960.
  - ( ) c. U965 and U970.
- ( ) 5. In instruments with a model 2 or model 3 Readout Logic assembly, the following leakage bypass resistors may be removed from the back of the Readout Logic circuit board depending on the microcircuits replaced:
  - ( ) a. For U951 and U953:
    - ( ) i. R950, 100k $\Omega$ , located between U951 pin 6 and U953 pin 6.
    - ( ) ii. R951, 100k $\Omega$ , located between U951 pin 2 and U951 pin 7.
    - ( ) iii. R952, 100k $\Omega$ , located between D952 anode and U953 pin 6.
    - ( ) iv. R953, 100k $\Omega$ , located between U953 pin 3 and U953 pin 9.
    - ( ) v. R954, 100k $\Omega$ , located between U951 pin 16 and U953 pin 7.

- ( ) b. For U956 and U960:
  - ( ) i. R955, 100k $\Omega$ , located between U956 pin 6 and U956 pin 16.
  - ( ) ii. R956, 100k $\Omega$ , located between U956 pin 2 and C995 positive end.
  - ( ) iii. R958, 100k $\Omega$ , located between U960 pin 6 and C995 positive end.
  - ( ) iv. R959, 100k $\Omega$ , located between U953 pin 16 and D959 anode.
  - ( ) v. R962, 100k $\Omega$ , located between U953 pin 16 and D960 anode.
  - ( ) vi. R963, 100k $\Omega$ , located between U953 pin 1 and D961 anode.
  - ( ) vii. R964, 100k $\Omega$ , located between U960 pin 4 and U960 pin 9.
- ( ) c. For U965 and U970:
  - ( ) i. R966, 100k $\Omega$ , located between D964 anode and R974.
  - ( ) ii. R967, 100k $\Omega$ , located between U965 pin 5 and U965 pin 16.
  - ( ) iii. R968, 100k $\Omega$ , located between U965 pin 2 and U970 pin 9.
  - ( ) iv. R969, 100k $\Omega$ , located between U970 pin 6 and U970 pin 16.
  - ( ) v. R970, 100k $\Omega$ , located between U970 pin 3 and U970 pin 16.
  - ( ) vi. R971, 100k $\Omega$ , located between U951 pin 7 and D971 anode.
- ( ) 6. Install the Readout Logic circuit board assembly.
- ( ) 7. Install the crt bezel and the bezel screw.
- ( ) 8. Refer to the Performance Check/Calibration Section (5) in the 576 Curve-Tracer Instruction Manual and check instrument operation, especially Readout.
- ( ) 9. For future reference, correct the part number information for the replaced pair of microcircuits in the instruction manual Replaceable Electrical Parts section as indicated in the Parts List of this kit.

DRL:cs

