



product modification

050-0679-00

M21409

Type 7A13

EXTENSION SHAFT REPLACEMENT

For TEKTRONIX® 7A13 Differential Comparator Amplifiers
Serial Numbers B010100-B132504

Extension shaft PN 384-0473-01, used with the FINE COMPARISON VOLTAGE potentiometer R77, replaces extension shaft PN 384-0473-00 which is no longer available. The new extension shaft is not a direct replacement for the old shaft.

NOTE: If the serial number of your instrument is above those listed, or if this kit has been installed, disregard the instructions and use extension shaft PN 384-0473-01 as a direct replacement.

PARTS INCLUDED IN PARTS REPLACEMENT KIT:

Quantity	Part Number	Description
1 ea	213-0140-00	Screw, set 2-56 X .100
1 ea	384-0473-01	Shaft, extension

INSTRUCTIONS:

- () 1. Remove the electrical shield from the right side of the instrument.
- () 2. Remove the cover from the comparison voltage Readout gear box.
- () 3. The extension shaft is secured on the FINE COMPARISON VOLTAGE potentiometer, R77, by two set screws. Rotate R77 knob and observe set screw orientation with respect to the set screw that locks the extension shaft to the counter dial. Adjust R77 knob so that one of the R77 set screws and the set screw in the counter drive gear are accessible. Rotate R77 180° more and loosen the set screw on R77. Rotate R77 knob 180° farther and loosen the two set screws that are accessible.
- () 4. Remove the set screw that secures the readout counter drive gear on the FINE COMPARISON VOLTAGE potentiometer extension shaft, and remove the shaft, and install the new set screw, in the drive gear. DO NOT TIGHTEN.
- () 5. Remove the knob from the old extension shaft and install it on the new extension shaft.
- () 6. Install the new extension shaft and DO NOT ROTATE the shaft. Tighten the set screws using the technique used when removing the shaft. Reinstall the gear box cover.
- () 7. Rotate R77 knob to its counterclockwise limit. The 3 digits on the right should read 999.
- () 8. Refer to your Instruction Manual and perform Calibration steps as follows:

CHECK/ADJUST 10-VOLT Calibration.

CHECK/ADJUST 1-VOLT Calibration.

Replace the right hand electrical shield.

JT:jj