



product modification

050-0021-00

M2058, M10070
M8244

Type 575

BASE STEP GENERATOR
POLARITY SWITCH REPLACEMENT

For TEKTRONIX® Type 575 Characteristic
Curve Tracer

Serial Numbers 101 - 1088

Base Step Generator POLARITY switch (SW240), pn 260-0258-01, replaces pn 260-0178-00. The new POLARITY switch will correct for a 2% error (due to a difference in contact resistance between negative and positive positions of POLARITY switch) in the base current reading.

NOTE: If the serial number of your instrument is above those listed, or if this kit has been installed, disregard the instructions and use pn 260-0258-01 as a direct replacement for SW240.

PARTS INCLUDED IN PARTS REPLACEMENT KIT:

Ckt. No.	Quantity	Part Number	Description
SW240	1 ea	260-0258-01	Switch
R245	1 ea	308-0136-00	Resistor, WW, 0.05Ω 20% 1W
	0.334 ft		Wire, bare, #20AWG solid

INSTRUCTIONS:

WARNING

Before proceeding, position the POWER switch to OFF; then disconnect the instrument from the power source.

NOTE: The following method is used to identify the BASE STEP GENERATOR POLARITY switch terminals:

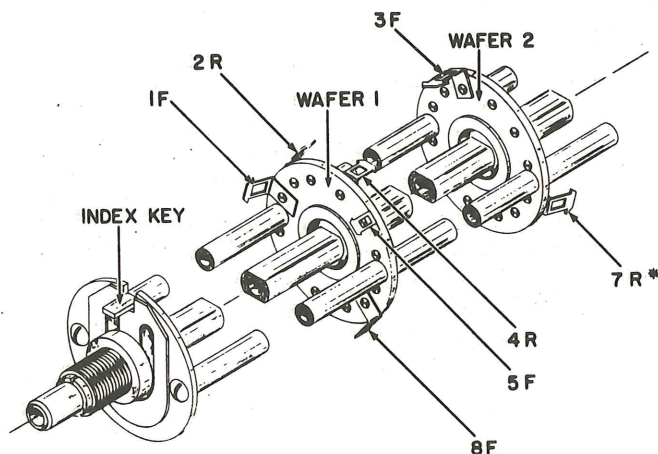
Wafers are numbered from front to rear.

Contact positions are numbered 1 through 12 relative to the index key as shown in drawing.

Contacts have an 'F' or 'R' suffix which denotes that they are on the front or rear of the wafer.

Example: W2-7R (denoted by * on drawing) is contact #7 on the rear of wafer 2.

(TYPICAL SWITCH CONFIGURATION)



- () 1. To facilitate the installation of the new POLARITY switch, remove the knurled nut from the STEPS/SEC switch and temporarily move the switch to the top of the sweep chassis.

NOTE: If it becomes necessary to remove any tubes during the switch replacement, they should be marked and returned to the same socket.

- () 2. Locate the bare wire connecting contact W1-3F of the POLARITY switch (see drawing) to contact W2-21R of the STEP SELECTOR switch.

Note the location of this bare wire on STEPS/SELECTOR switch. Unsolder and remove this bare wire. The bare wire included in this kit will be soldered to this point in step 13.

- () 3. Unsolder all the wires from the POLARITY switch and remove the switch from the instrument.

- () 4. Cut the bare wire removed in the previous step to approximately one inch long and solder it between W1-9R and the detent plate of the new switch, included in the kit.

- () 5. Install R245, the 0.05Ω resistor included in the kit, between W1-1R and W1-3F.

NOTE: To allow the addition of wires to these contacts in later steps, R245 should only be spot soldered into place.

- () 6. Install the new switch in the instrument. Refer to drawing for switch contact identification.

- () 7. Solder the white-gray wire to contact W1-10R.

- () 8. Solder the white-red wire to contact W1-12F.

- () 9. Solder the white-violet wire to contact W1-2F.

- () 10. Solder the white-orange wire to contact W1-4F.

- () 11. Solder the white wire to contact W1-5R.

- () 12. Solder the white-brown wire to contact W1-6F.

- () 13. Solder the bare wire, included in this kit, from contact W1-3F of POLARITY switch to contact W2-21R of STEP SELECTOR switch, (point from which a bare wire was removed in step 2).

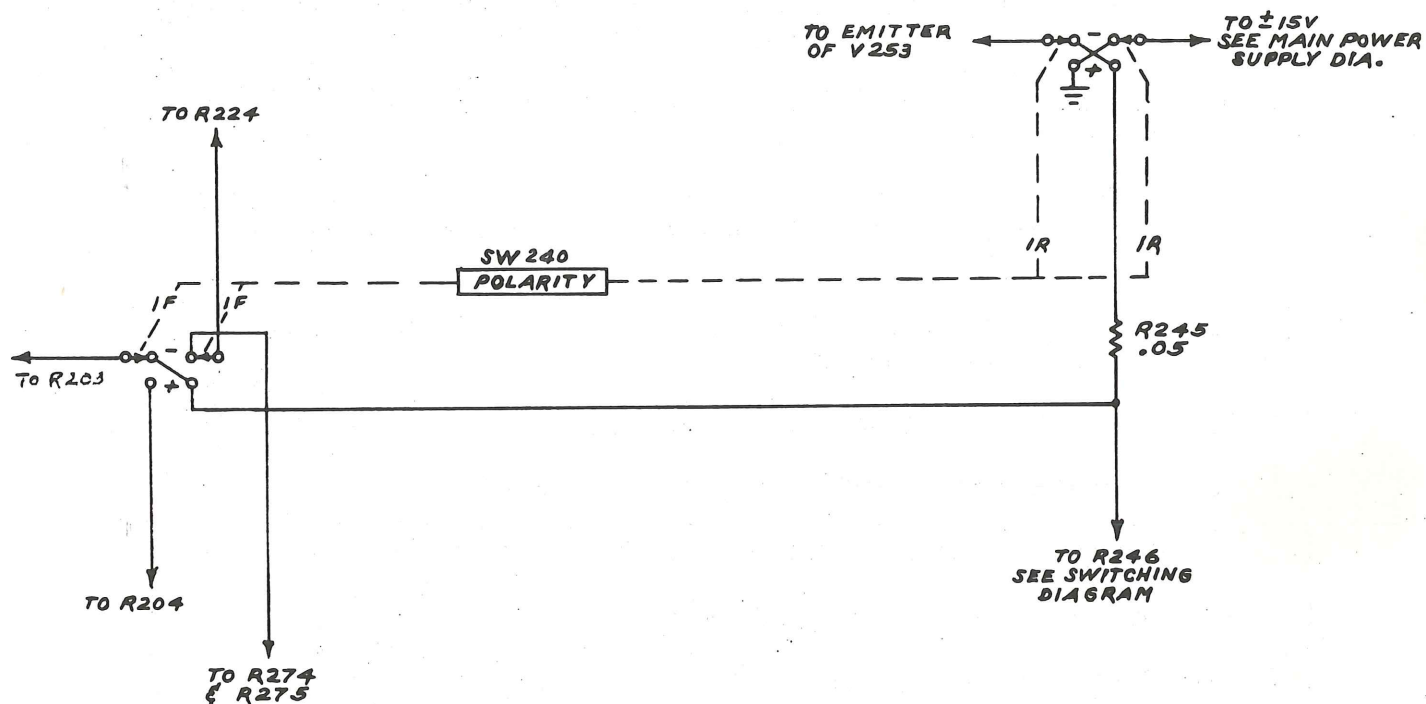
- () 14. Reinstall STEPS/SEC switch.

Refer to the Calibration section of your Instruction Manual and recalibrate as necessary.

For future reference, correct the Electrical Parts List in your Instruction Manual as shown in the kit Parts List.

JG:mr

SCHEMATIC
for improved POLARITY switch





Product Modification Kit SUGGESTION/CORRECTION FORM

DATE _____

KIT NUMBER _____ STEP/PAGE _____

FIGURE NUMBER _____ PUBLICATION DATE _____

DISCREPANCY _____

SUGGESTED CORRECTION / COMMENTS _____

SUGGESTED BY: NAME / ORGANIZATION _____

☐ **REPLY REQUESTED**

RETURN TO LOCAL FIELD OFFICE / SERVICE CENTER

FIELD OFFICE / SERVICE CENTER / DEL. STA. _____

SERVICE CENTER: RETURN TO PARTS RESEARCH 73-848

REPLY

☐ WILL MAKE CHANGE IMMEDIATELY

☐ WILL MAKE CHANGE AT NEXT PRINTING

☐ OTHER _____

SIGNED _____ DATE _____

