



product modification

040-0223-00

M5272

Type 575

SILICON RECTIFIER

For the TEKTRONIX® Type 575 Transistor Curve-Tracer

Serial Numbers 101-4929

This Modification Kit replaces the selenium rectifiers with silicon rectifiers. Silicon rectifiers offer more reliability and longer life.

The following selenium rectifiers are replaced: SR241 (pn 106-0043-00); SR620 (pn 106-0044-00).



10/20/2000

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PARTS INCLUDED IN MODIFICATION KIT:

Ckt. No.	Quantity	Part Number	Description
	(1 ea)		Assembly, silicon rectifier, consisting of:
	2 ea	124-0094-00	Strip, cer, 3/4 x 7 notches, clip-mounted
D241C,D D620A-D	6 ea	152-0066-00	Diode, silicon, 1A 400V
D241A,B	2 ea	152-0088-00	Diode, silicon 15A 100V
F240,F241	2 ea	159-0053-00	Fuse, w/pigtails 1AG 5A Fast-blo
	1 ea	210-0201-00	Terminal, solder lug, 0.12 ID, locking
	1 ea	348-0002-00	Grommet, rubber, 0.25 ID
	4 ea	361-0039-00	Spacer, nylon-molded, 0.53 L x 0.125 ID
	1 ea	406-0815-00	Bracket, silicon rectifier mounting
	0.1 ft	162-0004-00	Tubing, clear vinyl plastic, 0.263 ID
	0.33 ft	-----	Wire, #18 solid, white-red
	3 ea	210-0803-00	Washer, flat, 0.15 ID x 0.375 OD
	3 ea	211-0507-00	Screw, 6-32 x 0.316 PNH
	2 ea	213-0088-00	Screw, 4-24 x 0.25 PNH, thread-forming Type B
	1 ea	214-0210-00	Solder, silver-bearing, 3 ft spooled
	1 ea	-----	Label (kit identification)

INSTRUCTIONS:

IMPORTANT: When soldering to the ceramic strips, use the silver-bearing solder supplied with this kit.

- () 1. Remove the air filter from the rear of the instrument.
- () 2. Remove the six screws which hold the fan ring to the rear panel and move the fan assembly to one side. Do not unsolder the two fan motor leads.
- () 3. Unsolder all the wires from the selenium rectifier stacks, SR241 and SR620, located behind the fan motor.
- () Unsolder the two wires from the thermal cutout mounting on the selenium rectifier bracket.
- () 4. Remove the selenium rectifiers and brackets from the instrument.

NOTE: One of the nuts holding a bracket to the chassis is under the high voltage shield and can be removed with needle-nose pliers.

- () 5. Remove the thermal cutout from the selenium rectifier bracket and install it on the silicon rectifier bracket (from kit), using the 4-40 x 0.25 thread-forming screws from the kit.

NOTE: Mount the solder lug between the screw head and the thermal cutout (see Fig. 1).

- () 6. Mount the silicon rectifier assembly (from kit), as shown in Fig. 1. Use the 6-32 x 0.516 PNH screws and flat washers from kit, placing a flat washer under each screw head. (Insert screws from bottom of chassis.)

- () 7. Wire the silicon rectifier assembly, as shown in Fig. 2.

- () 8. Resolder the wires, unsoldered in step 3, to the thermal cutout.

- () 9. Replace the air filter and the fan assembly.

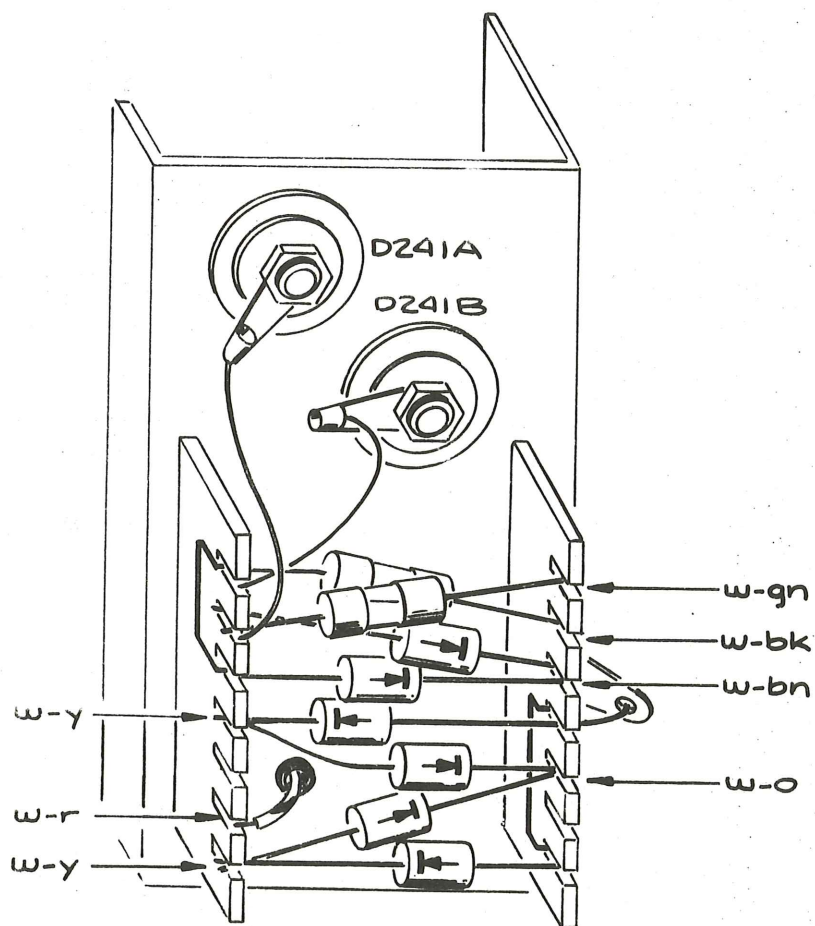
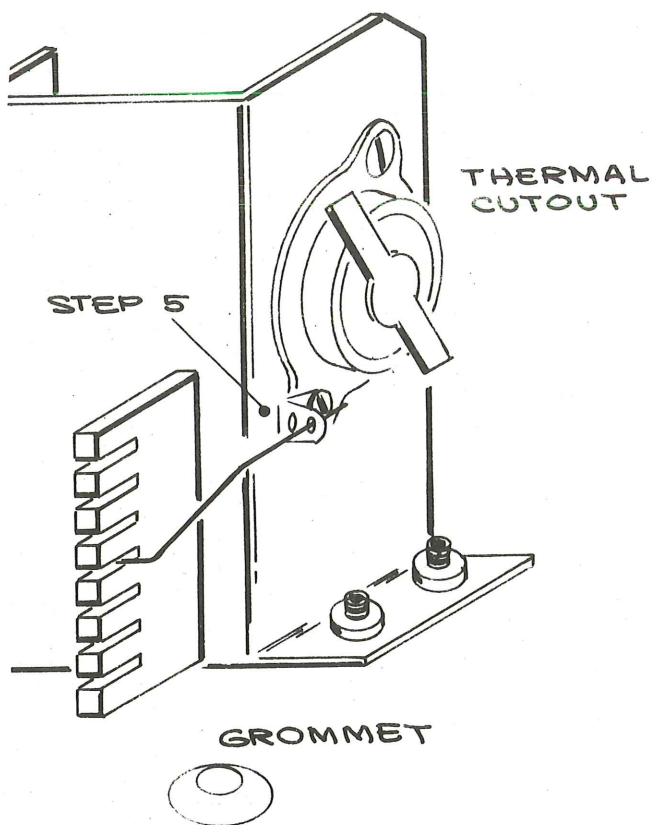
- () Turn the instrument on and check the power supplies for proper voltages and regulation.

NOTE: If adjustments are made to the power supply, it will be necessary to check the calibration of the instrument.

- () Fasten the kit identification label (from the kit) on the rear panel of the instrument to indicate this kit has been installed.

- () For future reference, place the Instruction Manual Modification Insert in your Type 575 Instruction Manual.

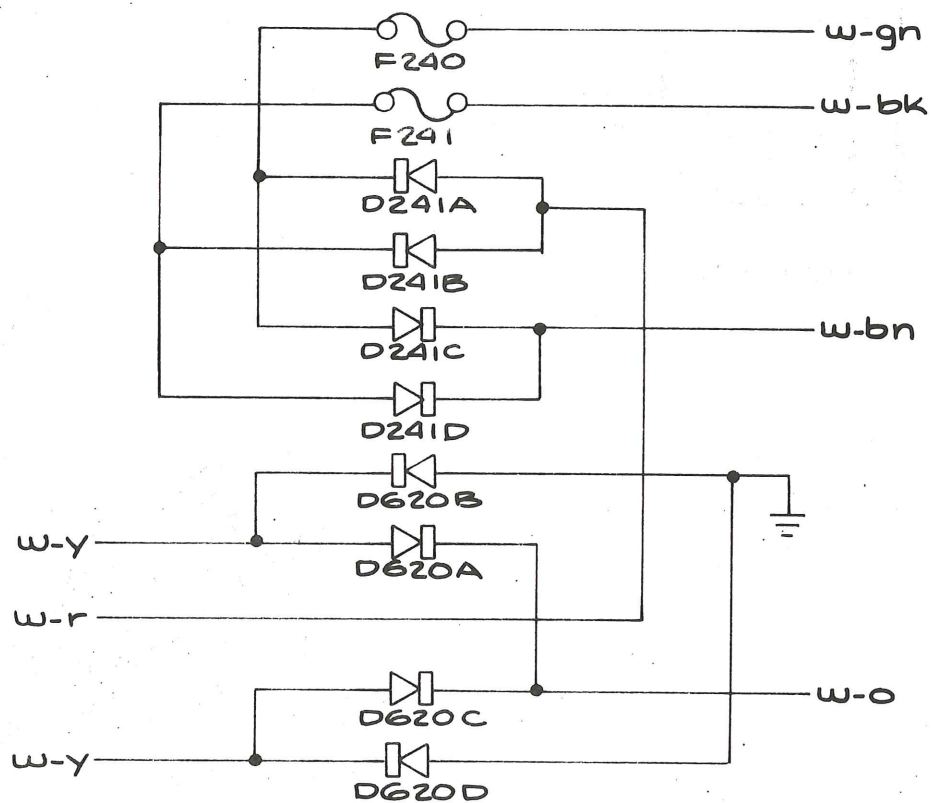
KM:cs



continued

(See wiring schematic on following page.)

INSTRUCTIONS (continued)





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 _____

INSTRUCTION MANUAL

MODIFICATION INSERT

SILICON RECTIFIER

TYPE 575 -- SN 101-4929

Installed in Type 575 SN _____ Date _____

This insert has been written to supplement the Instruction Manual for this instrument. The information given in this insert will supersede that given in the manual.

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GENERAL INFORMATION

This modification replaced the selenium rectifiers with silicon rectifiers. Silicon rectifiers offer more reliability and longer life.

ELECTRICAL PARTS LIST:

Only new parts listed.

Ckt. No.	Part Number	Description			
DIODES					
D241A, B	152-0088-00	15 A	100 PIV	silicon	
D241C, D	152-0066-00	500-750 mA	400 PIV	silicon	
D620A, B, C, D	152-0066-00	500-750 mA	400 PIV	silicon	
FUSES					
F240	159-0053-00	5 A	fast-blo	w/pigtail	
F241	159-0053-00	5 A	fast-blo	w/pigtail	

SCHEMATIC:

