



WARNING

THE FOLLOWING SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. TO AVOID PERSONAL INJURY, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

All references to the 067-0587-02 in the 070-2427-00 manual now apply to the 067-0587-10 — 7612D Calibration Fixture.

**PLEASE CHECK FOR CHANGE INFORMATION
AT THE REAR OF THIS MANUAL.**

**067-0587-10
7612D CALIBRATION FIXTURE
SIGNAL STANDARDIZER**

(SUPPLEMENT TO 067-0587-02)

SERVICE

INSTRUCTION MANUAL


**Tektronix, Inc.
P.O. Box 500
Beaverton, Oregon 97077
070-6178-00
Product Group 45**

Serial Number _____

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INSTRUMENT SERIAL NUMBERS

Each instrument has a serial number on a panel insert, tag,
or stamped on the chassis. The first number or letter
designates the country of manufacture. The last five digits
of the serial number are assigned sequentially and are
unique to each instrument. Those manufactured in the
United States have six unique digits. The country of
manufacture is identified as follows:

B000000	Tektronix, Inc., Beaverton, Oregon, USA
100000	Tektronix Guernsey, Ltd., Channel Islands
200000	Tektronix United Kingdom, Ltd., London
300000	Sony/Tektronix, Japan
700000	Tektronix Holland, NV, Heerenveen, The Netherlands

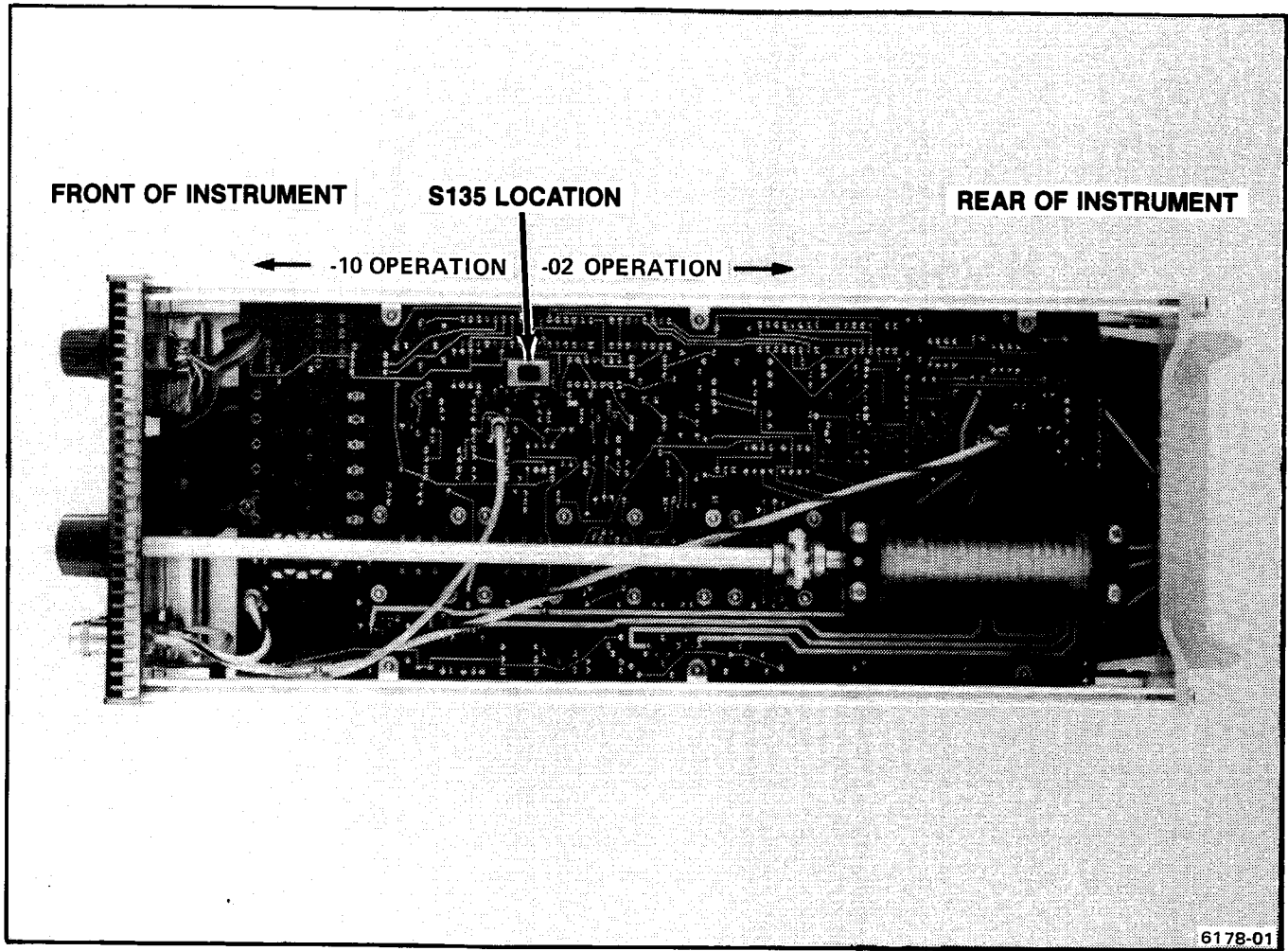


Figure 1-1. 067-0587-10 7612D calibration fixture signal standardizer with right cover removed (S135 location).

GENERAL INFORMATION

INTRODUCTION

This 067-0587-10 Instruction Manual contains supplemental information and a partial diagram for the Signal Standardizer, 067-0587-02 Calibration Fixture Manual.

The information in the 067-0587-02 manual is the same needed for the 067-0587-10 except as noted below. When combined together the 067-0587-02 Instruction Manual provides operating and servicing information for the 067-0587-10. Insert the 10 version before Section 1 of the 02 manual.

067-0587-02 VERSUS 067-0587-10

The 067-0587-10 is a test instrument used as a calibration aid for optimum adjustment of Tektronix 7612D Programmable Digitizers. The difference between the 067-0587-02 Signal Standardizer used in the calibration of 7000 Series oscilloscope mainframes and the 067-0587-10 is the signal coming from the PRETRIG OUT connector on the front of the instrument.

In the GAIN position the signal out will not be a pretrigger signal instead, the 067-0587-10 will generate one trigger per

staircase signal. The 02 version generates one pretrigger pulse for each step in the staircase signal.

Since, the 7612D calibration software requires one trigger per staircase when checking GAIN the 067-0587-10 will primarily be used in the calibration of 7612D's.

OPERATION

The switch (S135) is mounted on the back side of the Main Interface circuit board. When the switch is pushed to the forward position the instrument is functioning as an 067-0587-10 and when the switch is pushed toward the rear of the instrument it functions as an unmodified 067-0587-02. Switch locations are illustrated in figure 1-1.

The 067-0587-10 provides one trigger for each staircase generated and the trigger occurs at the beginning of the staircase.

The verification procedure is the only additional Performance Check required. After completing the calibration procedure contained in Section 5 of the Instruction Manual for the 067-0587-02 perform the 067-0587-10 staircase trigger verification check.

F. 067-0587-10 STAIRCASE TRIGGER PERFORMANCE VERIFICATION

Equipment Required: (Numbers correspond to those listed in Table 5-3, Test Equipment in the 067-0587-02 manual.)

1. Tektronix 7000-series mainframe	7904A
3. Tektronix Timebase	7B80
5. Tektronix Vertical Amplifier	7A16A
19. Bnc 42 inch cable	012-0057-01

BEFORE YOU BEGIN:

1. Turn off power to the mainframe oscilloscope.
 2. Install the timebase in the right most compartment and the vertical amplifier in the left most compartment of the mainframe.
 3. Remove the right side cover (with the front-panel forward). See figure 1-1.
 4. Install the 067-0587-10 in the inside vertical compartment of the oscilloscope mainframe.
 5. Turn oscilloscope power switch on.
- b. Set the Vertical mode for an alternate vertical display.
 - c. Set the 7B80 controls for a stable display of one or two cycles of the staircase.
 - d. Slide the calibration fixture mode switch from the 10 position to the 02 position.
 - e. **CHECK**—That the staircase/trigger signals displayed on your test oscilloscope changes from one trigger per staircase to one trigger per each staircase step. See figures 1-2 and 1-3.
 - f. Return the switch to the 10 position.
 - g. Replace the right side cover of the Signal Standardizer.

F1. CHECK STAIRCASE TRIGGER SIGNAL

- a. Connect the PRETRIG OUT of the 067-0587-10 to the vertical amplifier input with the bnc cable.

This concludes the performance verification check.

Component No.	Tektronix Part No.	Serial/Assembly No. Effective	Dscont	Name & Description	Mfr. Code	Mfr. Part No.
R134	315-0102-00			RES,FXD,FILM:1K OHM,5%,0.25W	57668	NTR25JED1K0
R135	315-0152-00			RES,FXD,FILM:1.5K OHM,5%,0.25W	57668	NTR25J-E01K5
S135	260-1641-00			SWITCH,SLIDE:DPDT,0.5A,125VAC	10389	23-021-114
M136	-----			WIRE,ELECTRICAL:20 AWG,BARE		
M139	-----			WIRE,ELECTRICAL:20 AWG,BARE		
				(REPLACEABLE PARTS FOR THE STANDARD 067-0587-02 CAN BE FOUND IN THE OPTIONAL ACCESSORIES MANUAL LISTED BELOW)		
				STANDARD ACCESSORIES		
	070-6178-00			MANUAL,TECH:SUPPLEMENT,76120	80009	070-6178-00
				OPTIONAL ACCESSORIES		
	070-2427-00			MANUAL,TECH:INSTRUCTION	80009	070-2427-00

Replaceable Electrical Parts-067-0587-10

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
10389	ILLINOIS TOOL WORKS INC	1714 N DAMEN AVE	CHICAGO IL 60647
57668	ROHM CORP	16931 MILLIKEN AVE	IRVINE CA 92713
80009	TEKTRONIX INC	4900 S M GRIFFITH DR P O BOX 500	BEAVERTON OR 97077

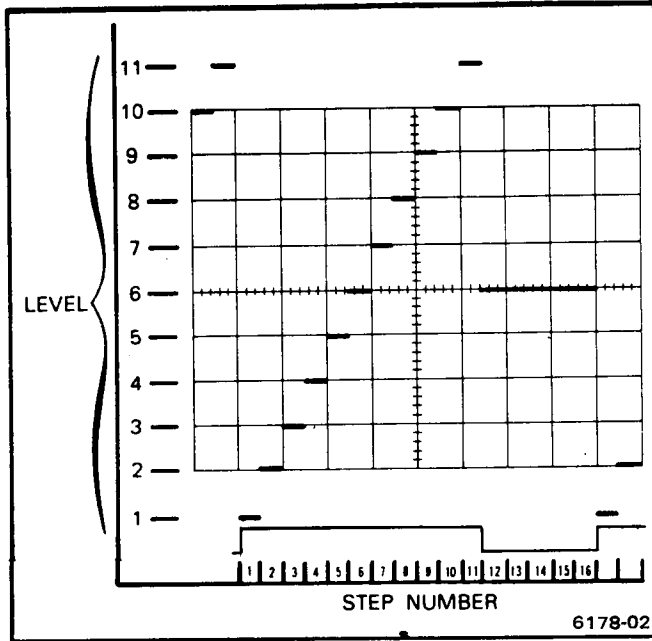


Figure 1-2. Staircase & trigger signals with 067-0587-10.

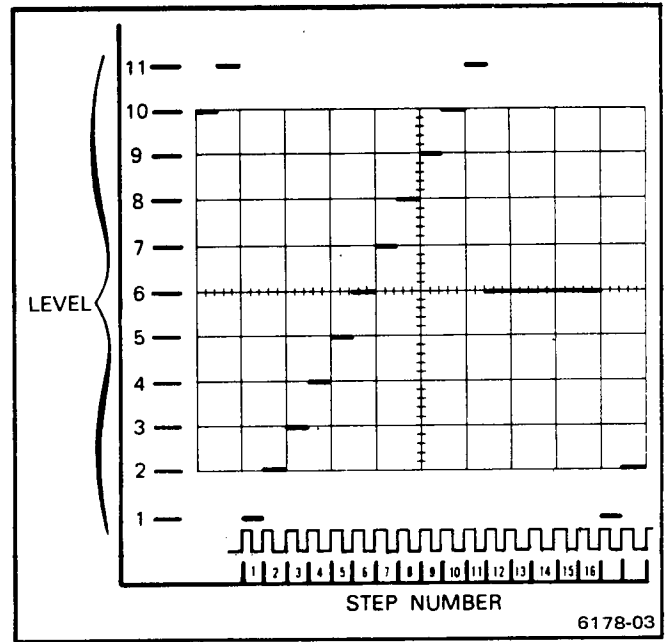


Figure 1-3. Staircase & trigger signals with 067-0587-02.

VOLTAGE & WAVEFORM CONDITIONS

