



HEWLETT  
PACKARD

# OPTION 005 (For HP Models 1715A/1725A) TV SYNC OSCILLOSCOPE

Model  
1715A/005  
1725A/005

OPERATING NOTE/AUGUST 1983

Table 1. Option Specifications

## TV INPUT

Max Input: 5 VRMS (Good neg sync pulses)

Min Input: 0.25 V p-p

75  $\Omega$  Input Impedance  $\pm 5\%$

TV CLAMP: AC coupled, not clamping to ground

## MAIN TRIGGER and DELAYED TRIGGER Output

Rectangular wave with a peak voltage range of 0.75 V<sub>peak</sub> < V<sub>peak</sub> < 1.0 V

## 1. INTRODUCTION.

2. This operating note provides operating and service information for the HP Models 1715A/1725A Option 005 and the TV Sync aspect of the Option 005/52L.

## 3. DESCRIPTION.

4. TV Sync Option 005 enables the 1715A/1725A oscilloscopes to trigger on composite video waveforms, which aids in viewing and measuring video signals. Option 005 is used in several different markets including television, display systems, and video systems. This enhanced version of HP 1715A/1725A oscilloscopes is frequently found in production, test, and development.

## 5. OPERATION.

6. Option 005 adds the circuits and controls that enable the oscilloscope to trigger on a composite video signal and display the signal on either channel A or B. The oscilloscope's main time base triggers on the vertical interval of the composite video signal, which it receives by connecting the MAIN TRIGGER output BNC to the Main EXT TRIG input BNC. The delayed time base triggers on horizontal lines or pulses by connecting the DELAYED TRIGGER BNC to the Delayed EXT TRIG input. Composite video signals are connected to the TV INPUT. They are ac coupled to the TV VERTICAL-OUT BNC with approximately unity gain. TV VERTICAL-OUT BNC is connected to the oscilloscope's CHANNEL A or B vertical INPUT (don't use 50  $\Omega$  coupling). Figure 1 shows the added controls and connectors, and a description of the operation of each. Refer to the 1715A/1725A Operating and Service Manual for a description of the remaining controls and indicators.

## 7. SPECIFICATIONS.

8. The specifications in table 1 apply to the HP Model 1715A/1725A Option 005.

## 9. RECOMMENDED TEST EQUIPMENT.

10. The following test equipment is required in addition to that listed in the Operating and Service Manual:

Composite TV Sync Signal Generator

## 11. PERFORMANCE TEST.

12. The following performance test is in addition to those in the 1715A/1725A oscilloscopes Operating and Service Manuals.

a. Connect TV signal generator to TV INPUT. Then make the following connections as shown in figure 2 and set oscilloscope controls as follows:

MAIN TIME/DIV .....	2.0 msec
DELAYED TIME/DIV .....	10.0 $\mu$ sec
MAIN .....	normal
Delayed TRIG LEVEL .....	1st ext
TIME INTERVAL .....	1T off
Main Triggering .....	EXT
Delayed Triggering .....	EXT
CHAN A VOLTS/DIV .....	as required

for at least 2 div display

b. Adjust Main TRIG LEVEL for stable display. If a stable display is observed, the field retrace or portion of the TV sync circuitry is operating properly.

c. Try both slope triggering modes and observe that display remains stable.

d. Press DLYD sweep and observe individual line sync pulses are displayed on CRT (adjust intensity as needed).

e. Adjust the TIME INTERVAL STOP potentiometer and observe that line sync pulses move slowly across CRT.

f. Set Delayed TRIG LEVEL to obtain a stable display (Delayed slope select to -1 TIME INTERVAL STOP potentiometer adjustment now provides discrete delay changes. Adjust SINGLE LINE SCAN and note the continuous control of horizontal position).

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# Hp 1715a Oscilloscope Repair Manual

**Camilla Rothe**



## **Hp 1715a Oscilloscope Repair Manual:**

**Operator's, Organizational, Direct Support, and General Support Maintenance Manual** ,1985     Electronics & Wireless World ,1987     **Electronics World + Wireless World** ,1995     **Electronics World** ,1998     **Model 1703A Oscilloscope** ,1976     *Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (including Depot Maintenance Repair Parts and Special Tools) for Oscilloscope 1744A (HP), (NSN 6625-01-171-9816).* ,1986     **Model V-211/V-212, V-222/V-422 Oscilloscope Service Manual** Hitachi Denshi, Ltd,196?     Operator's and Organizational Maintenance Manual United States. Department of the Army,1959     **General Support Maintenance Manual** ,1988     **Service Manual** ,     **Operator's, Organizational, Direct Support and General Support Maintenance Manual for Oscilloscope OS-261B(V)1/U, (Tektronix Model 475 with Option 04), (NSN 6625-01-101-1318) and Oscilloscope OS-261C(V)1/U, (Tektronix Model 475 with Option 04 and Option 07), (NSN 6625-01-119-7314).** ,1989     **Operator's, Organizational, Direct Support and General Support Maintenance Manual for Oscilloscope AN/USM-281C, (NSN 6625-00-106-9622).** ,1988     **Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (including Depot Maintenance Repair Parts and Special Tools) for Oscilloscope OS-261B(V)1/U (NSN 6625-01-101-1318) (Tektronix Model 475 with Option 04), and Oscilloscope OS-261C(V)1/U (NSN 6625-01-119-7314) (Tektronix Model 475 with Option 04 and Option 07).** ,1990     **Technical Manual** United States. Department of the Army,1959     **Operator's and Organizational Maintenance Manual** United States. Department of the Army,1959     Operator's and Organizational Maintenance Manual ,1959     **Operator's, Organizational, Direct Support, and General Support Maintenance Manual** ,1978

Operating and Servicing Manual Model 120A/AR Oscilloscope Hewlett-Packard Company,1985     **Operator's and Organizational Maintenance Manual** United States. Department of the Army,1995     **Operator's, Organizational, Direct Support, and General Support Maintenance Manual (including Depot Maintenance) for Oscilloscope OS-261/U, (NSN 6625-00-127-0079).** ,1987

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