



045-0074-00

M53575

INCOMPATIBILITY IMPROVEMENT

For TEKTRONIX® 7854 Oscilloscopes

Serial Numbers B010100 - B0XXXXX

GPIB Circuit board, pn 670-5849-01, replaces GPIB circuit board, pn 670-5849-00 (A30), which causes incompatibility problems when the 7854 is used with HP9826(36) controllers. When the HP9826(36) conducts a serial poll with the 7854 with certain combinations of bits set in the status byte, the two instruments "hang up" and must be restarted before continued use is possible.

NOTE

This kit may not be used with Option OD instruments unless 040-0939-XX (GPIB) has been installed.

CAUTION

STATIC SENSITIVE DEVICES

Static discharge can damage any semiconductor component in this instrument. Static voltages of 1kV to 30kV are common in unprotected environments.

TO AVOID DAMAGE, OBSERVE THE FOLLOWING:

1. Minimize handling of static-sensitive components.
2. Transport and store static-sensitive components or assemblies in their original containers, on a metal rail, or on conductive foam. Label any package that contains static-sensitive assemblies or components.
3. Discharge the static voltage from your body by wearing a wrist-strap while handling these components. Servicing static-sensitive assemblies or components should be performed only at a static-free work station by qualified service personnel.
4. Nothing capable of generating or holding a static charge should be allowed on the work station surface.
5. Keep the component leads shorted together whenever possible.
6. Pick up components by the body, never by the leads.
7. Do not slide the components over any surface.
8. Avoid handling components in areas that have a floor or work-surface covering capable of retaining a static-charge.
9. Use a soldering iron that is connected to earth ground.
10. Use only approved, anti-static type, desoldering tools.

KIT PARTS LIST:

Ckt. Number	Quantity	Part Number	Description
A30	1 ea	670-5849-01	Circuit board, GPIB
	1 ea	-----	Label, 045-kit

INSTRUCTIONS:

WARNING

Before proceeding, ensure the mainframe power switch is in the off position, then disconnect the instrument from the power source.

NOTE

If memory back-up power is being used, disconnect the banana plugs from the MEMORY BACK-UP POWER INPUT on the rear panel.

- () 1. Turn the four (4) slotted fasteners in the right cabinet side one-quarter turn counterclockwise. Remove the cabinet side by lifting the panel away from the instrument.
- () 2. Remove the five (5) screws securing the circuit board support and remove the support.
- () 3. Lift the GPIB circuit board (from circuit board guides labeled "A30 GPIB") high enough to gain access to P400 by lifting up simultaneously on the two plastic circuit board ejectors located on each end of the circuit board.
- () 4. Unplug the GPIB cable from P400 on the GPIB circuit board, A30.
- () 5. Remove the GPIB circuit board.
- () 6. Install the new GPIB circuit board (included in the kit) into the circuit board guides vacated by the old GPIB board with the component side facing outward (leave enough of the board protruding to access P400).
- () 7. Connect the GPIB cable to P400. The red marking along one edge of the cable indicates the end of the plug containing pins 1 and 2. This end should be aligned with P400, pins 1 and 2, on the circuit board.

- () 8. Make certain the circuit board ejectors are in a horizontal position, then slide the circuit board down until the circuit board edge pins mate with the receptacle. Push firmly and evenly until the board edge pins seat themselves into the receptacle.
- () 9. Reinstall the circuit board support removed in step 2, ensuring the tabs along the top edges of the circuit boards are inserted in the slots in the support.
- () 10. Secure the circuit board support with the five (5) screws removed in step 2.
- () 11. Reinstall the right cabinet side removed in step 1.
- () 12. If disconnected previously, reconnect the banana plugs to the MEMORY BACK-UP POWER INPUT on the rear panel.
- () 13. Remove the protective backing from the 045-kit label (included in the kit) and apply it to a clean area on the rear panel. The label indicates this kit has been installed.

RH: rh

TEKTRONIX

MANUAL MODIFICATION INSERT

INCOMPATIBILITY IMPROVEMENT

for

7854 Oscilloscopes Serial Numbers B010100 - B0XXXXX

Installed in SN _____ Date _____

This modification insert is provided to supplement the manual for the above listed product(s). The information given in this insert supersedes that given in the manual.

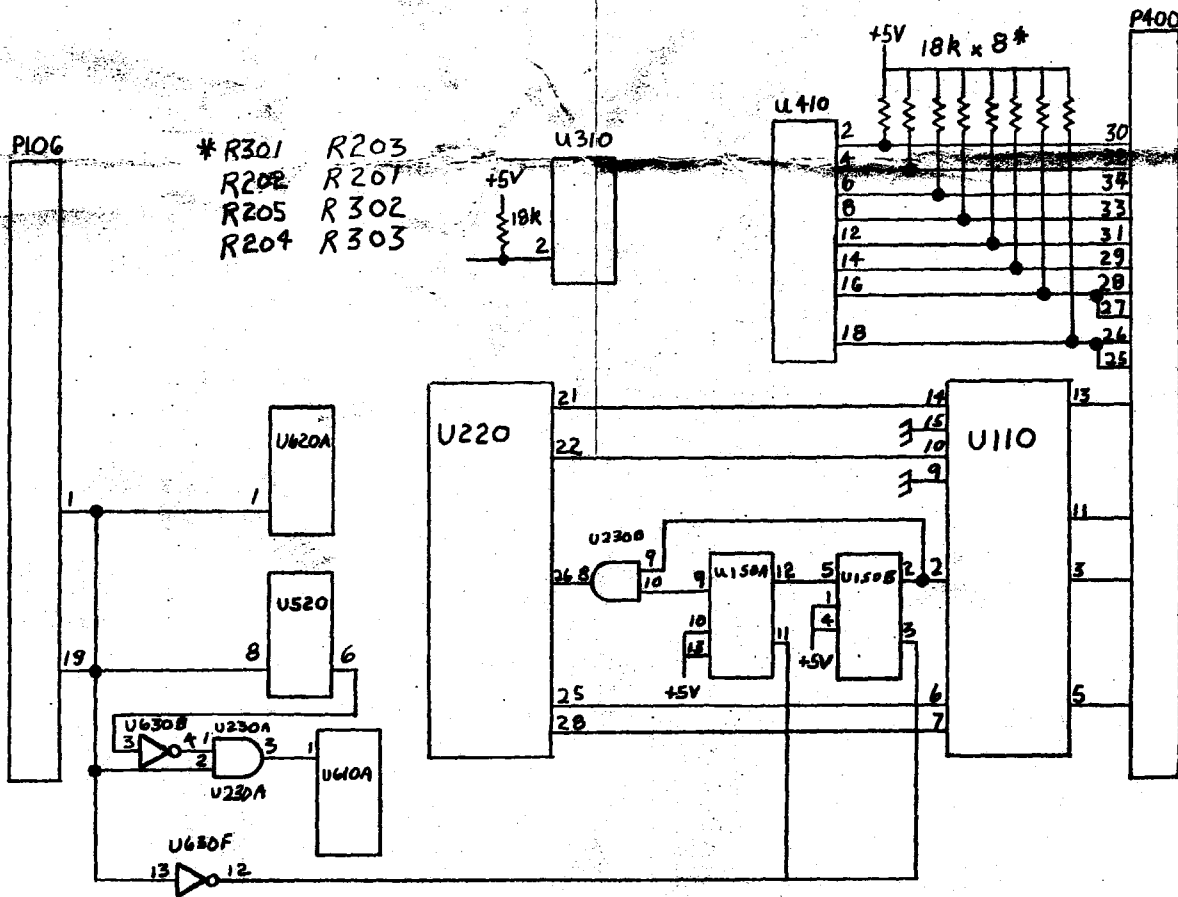
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GENERAL INFORMATION

GPIB Circuit board, pn 670-5849-01, replaced the GPIB circuit board (A30), pn 670-5849-00, which had incompatibility problems when used with HP9800 series controllers.

REPLACEABLE ELECTRICAL PARTS

CKT. NO.	PART NUMBER	DESCRIPTION
A30	670-5849-01	Circuit board, GPIB
C160	281-0075-00	Capacitor, cer di. 0.1 μ F, 20%, 50V
C240	281-0075-00	Capacitor, cer di. 0.1 μ F, 20%, 50V
R201		
R202		
R203		
R204		
R205	307-0862-00	Resistor, ntwk. 9x18k Ω , 2%, 0.15W
R210		
R301		
R302		
R303		
U150	156-0388-03	Microcircuit, dgtl. dual D flip-flop, 74LS74N
U230	156-0480-02	Microcircuit, dgtl. quad 2-inp & Gate, 74LS08



PARTIAL - GPIB CIRCUIT BOARD