



050-0763-03

M23909, M23915,
M24582

VERTICAL INTERFACE CIRCUIT BOARD REPLACEMENT

For the following TEKTRONIX® Oscilloscopes

R7903 Serial Numbers B010100 - B119999
7904 Serial Numbers B020000 - B179999*
R7912 Serial Numbers B010100 - B139999

Vertical Interface circuit board, pn 670-1625-06, replaces Vertical Interface circuit boards, part numbers 670-1625-01, 670-1625-02, 670-1625-03, and 670-1625-05, which are no longer available.

Vertical Interface circuit board, pn 670-1625-06, also replaces Vertical Channel Switch microcircuit, U625, pn 155-0060-00, which is no longer available.

*Parts Replacement Kit, pn 050-0774-XX, is available to re-
replace the Vertical Interface circuit board, pn 670-1625-00,
in 7904 instruments with serial numbers below B020000.

NOTE

If the serial number of your instrument is above those listed or if this kit, or kit, pn 050-0774-XX, has been installed, disregard the instructions and use Vertical Interface circuit board, pn 670-1625-06, as a direct replacement.

PARTS INCLUDED IN PARTS REPLACEMENT KIT:

Ckt. No.	Quantity	Part Number	Description
	1 ea	198-3541-00 ¹	Wire, set, consisting of:
	1 ea		Wire, coaxial, blue-brown, 7", w/conn
	1 ea		Wire, coaxial, blue-red, 7", w/conn
	1 ea	198-3542-00 ²	Wire set, consisting of:
	1 ea		Wire, coaxial, blue-brown, 11.5", w/conn
	1 ea		Wire, coaxial, blue-red, 11", w/conn
R2470 ³	1 ea	315-0752-00	Resistor, cmpsn, 7.5k Ω , 5 pct, 0.25W
	1 ea	670-1625-06	Circuit board, Vertical Interface

¹Used in 7904 only.

²Used in R7903 only.

³Used in R7912 only.

INSTRUCTIONS:

WARNING

Before proceeding, ensure the power switch is OFF, then disconnect the oscilloscope from the power source.

- () 1. Remove the left cabinet side from the 7904 or the cabinet top from the R7903 or R7912 instrument.
- () 2. Remove the plug-ins from the vertical plug-in compartments.
- () 3. Disconnect the two coaxial cables from the component side of the Vertical Interface circuit board, noting color codes and location for later reassembly.
- () 4. Loosen the two Vertical Interface circuit board mounting screws and carefully pull the circuit board straight out until the interconnect terminals are cleared.
- () 5. Disconnect the four coaxial cables from the back of the Vertical Interface circuit board, noting their color codings and locations for later reassembly. Remove the Vertical Interface circuit board.
- () 6. Replace the blue-brown and blue-red coaxial cables (one end of each was disconnected in step 3) that connect between the Vertical Interface and J647 and J649 on the Delay Line Termination. Use the seven inch coaxial cables in the 7904 oscilloscope or the eleven inch coaxial cables in the R7903 oscilloscope.

- () 7. Connect the coaxial cables disconnected in step 5 to the new Vertical Interface circuit board (provided in the kit).
- () 8. Align the Vertical Interface circuit board with the interconnect pins and gently press straight on, ensuring all pins are mating properly. Secure the circuit board with the two captive screws.
- () 9. Connect the new delay line coaxial cables (replaced in step 6) to the component side of the Vertical Interface circuit board in the locations noted in step 3.
- () 10. R7912 ONLY. Replace R2470, a 10k Ω , 0.25W resistor on the Graticule Generator circuit board, with the 7.5k Ω resistor included in the kit.
- () 11. Refer to the Calibration Section of your Manual and the attached Instruction Manual Modification Insert and make any necessary checks and adjustments.
- () 12. Install the cabinet side or top removed in step 1.
- () For future reference, fasten the attached Instruction Manual Modification Insert into your Instruction Manual.

DH:cp

