



product modification

040-0654-02

M23868

7603

READOUT CONVERSION

For TEKTRONIX[®] 7603 Option 1 Oscilloscopes

All Serial Numbers

This modification kit contains parts and instructions to install a Readout and Protection Circuit Board Assembly. The readout provides an alpha-numeric display of the vertical and horizontal factors and other plug-in encoded information. The display is written by the crt beam on a time-share basis with the analog waveform display.

PARTS INCLUDED IN MODIFICATION KIT:

Quantity	Part Number	Description
1 ea	195-0114-02	Assembly, wire set
1 ea	672-0572-00	Circuit board assembly, Readout and Protection

INSTRUCTIONS:

WARNING

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

- () 1. Remove the left and right side covers from the oscilloscope.
- () 2. Install the Readout and Protection circuit board assembly in the circuit board guide and clips located on the right side of the crt shield.
- () 3. Secure the Readout and Protection circuit board assembly with the captive 4-40 x 1/2" screw.
- () 4. Connect the multi-wire and coaxial cables provided in the kit from the Readout circuit board to the designated circuit boards as follows (refer to Fig. 1A and Fig. 1B):
 - () a. The five-conductor cable with brown connector holders from P2171 to P1071 on the Calibrator circuit board.
 - () b. The five-conductor cable with gray connector holders from P2118 to P1018 on the Calibrator circuit board.
 - () c. The five-conductor cable with blue connector holders from P2266 (pins 1-5) to P66 on the Main Interface circuit board.
 - () d. The ten-conductor cable with green connector holders from P2265 to P65 on the Main Interface circuit board.
 - () e. The ten-conductor cable with violet connector holders from P2167 to P67 on the Main Interface circuit board.
 - () f. The white-black-orange coaxial cable from J2139 to P39 on the Main Interface circuit board.
 - () g. The white-black-brown coaxial cable from J2132 to J1132 on the Z-Axis circuit board.
 - () h. The white-black-yellow coaxial cable from J2299 to J409 on the Vertical Output circuit board.
 - () i. The white-black-green coaxial cable from J2296 to J508 on the Horizontal circuit board.
 - () j. The white-black-red coaxial cable from J2138 to J503 on the Horizontal circuit board.

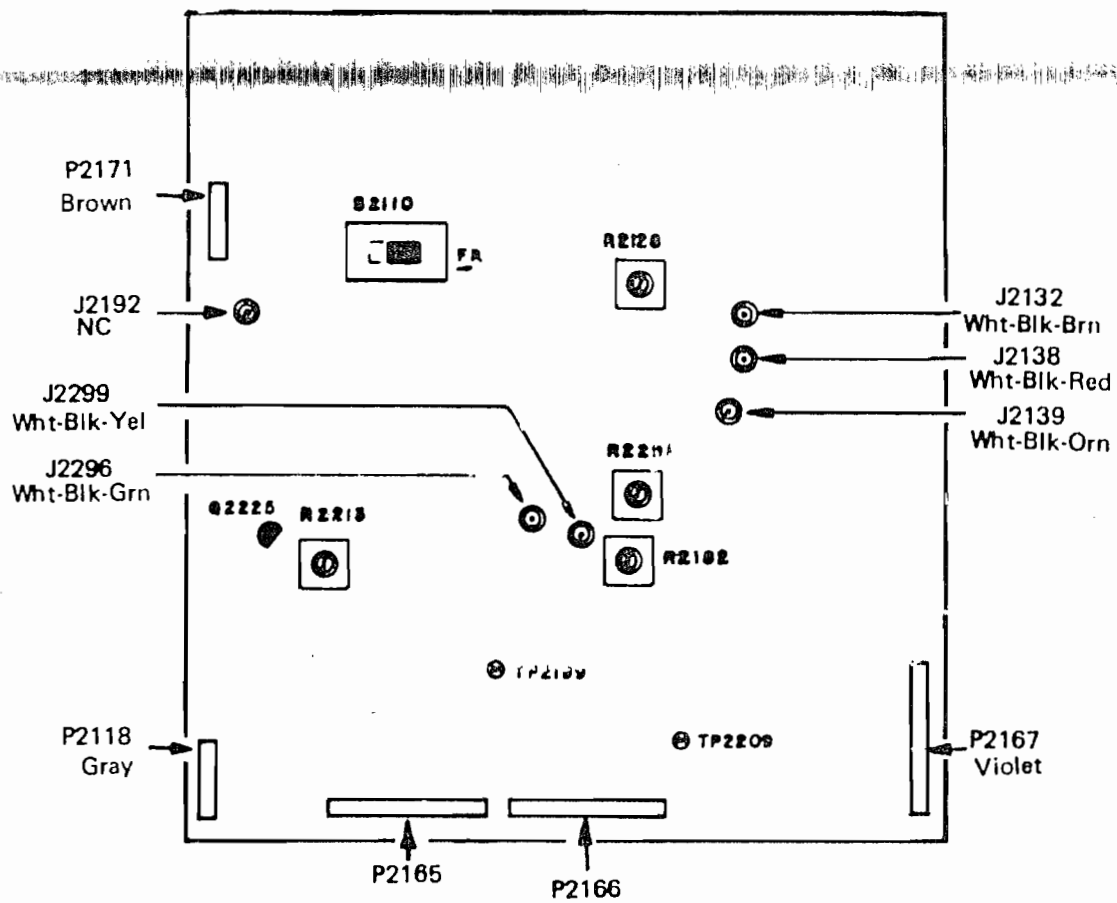


FIG. 1A

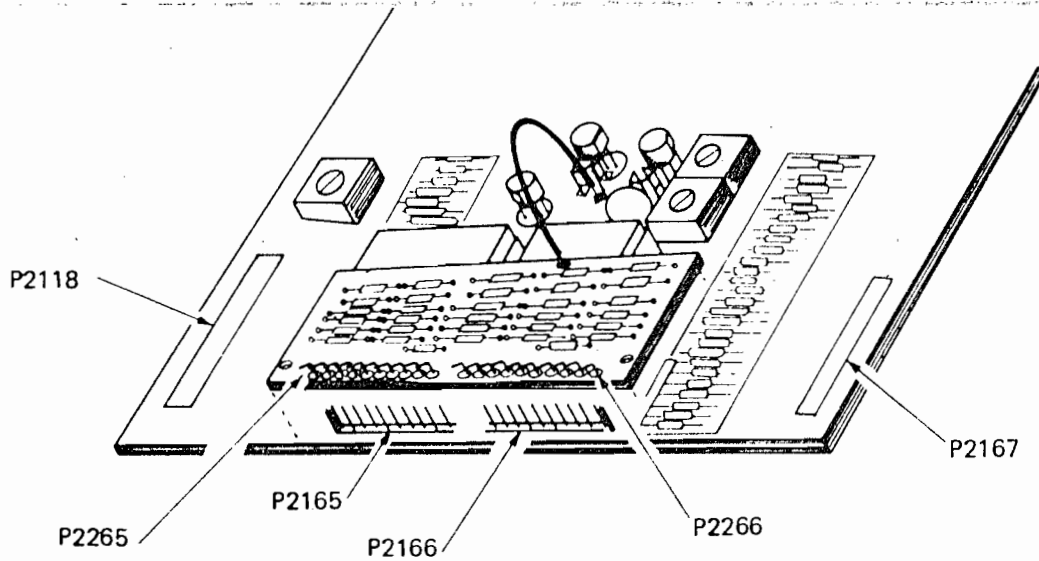


FIG. 1B

- () 5. Connect the white-black-red 50 Ω coaxial cable with gray connector holders from P804 (pins 1 and 2) on the Horizontal circuit board to P38 (pins 1 and 2) on the Main Interface circuit board. The center conductor connects to pin 1 on both plugs.
- () 6. Connect the white-blue 50 Ω coaxial cable with green connector holders from P1025 (pins 1 and 2) on the Calibrator circuit board to P59 (pins 5 and 6) on the Main Interface circuit board. The center conductor connects to P1025, pin 2, and P59, pin 6.
- () 7. Refer to the Calibration section in your Instruction Manual and check vertical centering, horizontal centering and readout operation. Make any necessary adjustments.
- () 8. Install the left and right side covers.

For future reference, fasten the Instruction Manual Modification Insert in your Instruction Manual.

DH:cs