

TELEVISION SYSTEMS
J44107 TELEVISION OPERATING CENTERS
LARGE OFFICE TEST POSITIONS
KS-15512, L4 OSCILLOSCOPE

The KS-15512, L4 Oscilloscopes in the test positions of a television operating center can be used for transmission testing, or, in conjunction with a KS-15654, L1 Video Monitor, may be used for service monitoring. When used for transmission testing, the oscilloscope is connected to the receiving test circuit through a 6 db pad. When used for service monitoring, the oscilloscope (together with the video monitor) is connected to the receiving test circuit through an equalized (6 db) test monitor circuit. A signal of 1 volt peak to peak at the output of the nominally distortionless receiving test circuit through a 6 db loss assures a 1 volt peak-to-peak signal at point "X" in the video switch.

This issue replaces Issue 1 which was rated "AT&TCo Special" and given limited distribution. The text of Issue 2 is identical to Issue 1.

The KS-15512, L4 Oscilloscope is calibrated and its gain-frequency characteristic is checked by sending sine wave signals from a 61C signal generator through the transmitting and receiving test circuits (connected through the video switch) to the oscilloscope, using the 6 db pad arrangement.

STEP	PROCEDURE
1	The transmitting and receiving test circuits of one of the test positions shall have been equalized and adjusted as described in Section 318-435-509. Connect these circuits through the video switch.
2	At the transmitting test position, arrange the 61C signal generator, the 1AP transmission comparing set, and the 70B power meter for loss-frequency measurements, as described in Section 318-435-502.
3	Using 372A patching plugs, patch from REC TST OUT to 6 DB PAD IN, 6 DB PAD OUT to SCOPE IN at position A or B as required. This connects the KS-15512, L4 oscilloscope to the receiving test circuit.
4	Sending from the 61C signal generator at the transmitting test position, test the KS-15512, L4 oscilloscope in accordance with methods and limits described in Section E37.420.
5	Set the 61C signal generator for a 250 KC sine wave unbalanced output at 0 dbv as read on the input 70B power meter. Adjust the oscilloscope V. GAIN to produce a vertical deflection of + 100 to - 40 on the oscilloscope scale. (This is a 2 inch deflection.) Adjust the H. GAIN control so that the detail of the waveform display is sufficiently expanded. <i>Note: DO NOT DISTURB</i> the V. GAIN control after making the adjustment in Step (5).
6	The oscilloscope is now adjusted for use in transmission measurements.
7	Repeat Steps (3), (4), (5) and (6) for the oscilloscope in the other test position.

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