

NAVWEPS 16-45-637

TB 11-6625-274-12/1

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**TEST DATA FOR
ELECTRON TUBE TEST SETS
TV-7/U,
TV-7A/U,
TV-7B/U,
AND
TV-7D/U**

This copy is a reprint which includes current pages from Changes 3.

HEADQUARTERS, DEPARTMENT OF THE ARMY

17 JANUARY 1962

TECHNICAL BULLETIN

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HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON 25, D. C., 17 January 1962TEST DATA FOR ELECTRON TUBE TEST SETS TV-7/U, TV-7A/U,
TV-7B/U, AND TV-7 D/U

1. Operation. The following instructions are keyed to the table of test data given in paragraph 2. For complete operating instructions see TM 11-6625-274-12, Operator's and Organizational Maintenance Manual, Test Sets, Electron Tube TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U.

- a. Turn the POWER switch to the ON position.
- b. Press push button 1-LINE ADJ and hold it down. Slowly rotate the LINE ADJUST control knob until the pointer of the meter rests over the LINE TEST mark. This adjustment is not required for all tubes (refer to *Notations* column).
- c. Locate the type number of the tube to be tested (par. 2) under the column heading *Tube type*.
- d. Refer to the *Notations* column for special information pertaining to specific types of tubes.
- e. Set the FILAMENT VOLTAGE switch at the voltage shown under the heading *Fil.*
- f. Set the selector switches as indicated under the column headed *Selectors* in the following order: FILAMENT (left), FILAMENT (right), GRID, PLATE, SCREEN, CATHODE, and SUPPRESSOR.
- g. Set the BIAS dial at the value listed in the *Bias* column.
- h. Set the SHUNT dial at the value listed under *Shunt*. If no setting is indicated for this dial, omit this step, and proceed with the next operation.
- i. Set the FUNCTION SWITCH to the No. 1 position.
- j. Insert the tube to be tested in the proper socket.
- k. Readjust the line voltage (b above).
- l. Rotate the FUNCTION SWITCH through SHORTS positions 1, 2, 3, 4, and 5. If the neon lamp glows steadily, or intermittently under light tapping, a short is indicated and the tube should be discarded, with the exception of tubes which normally show shorts in certain positions as indicated under the *Notations* column. Disregard momentary flashes between switch positions. Multisection tubes must be tested for shorts for each section. On all selector switch settings in which the CATHODE selector switch and the SUPPRESSOR selector switch are set for a common pin number (except 0 and 1) the FUNCTION switch will indicate short on positions 2 and 3.
- m. Allow sufficient time for the tube to warm up and repeat the shorts test (l above).
- n. Turn the FUNCTION SWITCH to the proper RANGE position as indicated under the column headed *Range*.
- o. Press the pushbutton listed in the *Press* column. Read the meter as soon as its needle comes to rest and immediately release the pushbutton.

*This bulletin supersedes TB 11-508 3-1/TO 33 AA21-5-1, 9 October 1957, including C 1, 22 December 1958; C 2, 1 April 1959; C 3, 10 February 1960; and C 4, 16 June 1960.