

NON-WESTERN ELECTRIC ELECTRON (VACUUM) TUBE TEST DATA
HICKOK MODEL 531 (KS-13588-L1) AND MODIFIED 530B (KS-13725-L1) TUBE TESTERS

1. GENERAL

1.01 The purpose of this section is to provide information regarding the latest test data for electron (vacuum) tubes of other than Western Electric Company manufacture, for use with Model 531 (KS-13588-L1) and modified 530B (KS-13725-L1) Hickok tube testers.

1.02 As of the date of this section the latest issue of a roll chart suitable for use with these sets is dated 4-1-49. It may be obtained in accordance with usual Company routines directly from The Hickok Electrical Instrument Company, 10514 Dupont Avenue, Cleveland 8, Ohio. It is understood that the price for this chart, as of the date of this section, is \$.50 postpaid. This amount should be forwarded with the order. The chart should be designated as the "Code No. 3200-28 Roll Chart dated 4-1-49."

1.03 The model number and serial number of the test set with which the chart is to be used should be given in obtaining the chart, together with the full address to which the chart should be sent.

1.04 This chart gives some tube test data which are not applicable to these testers. The data which are not applicable may be identified by the notations IVORY MIN. and RED OCTAL after the tube code number. Some of the tubes marked RED OCTAL on the chart may be tested in the black octal socket of the tester and data for such tubes are given herein and are marked with (ø).

2. SUPPLEMENTAL DATA

2.01 Tubes of Western Electric Company manufacture listed on the chart should be tested according to the requirements of Section 100-633-101.

2.02 The following test data supplementing or replacing corresponding entries on the roll chart are for Bell System use. It is suggested that the chart be marked with all changes given in the following table.

TUBE TYPE	AVERAGE MUT. COND.	A	B	FIL	L	R	NOTATIONS
0A4G	-	10	2	0	50	0	OZ4; test 5" only
0Y4	-	8	4	BLST	65	0	OZ4 button (short on 1-2-3-4)
0Z4	(-	4	8	0	0	0	Check for shorts
	(-	2	9	0	60	0	OZ4 button; test 5" only
	(-	10	2	0	60	0	OZ4 button; test 5" only
2A4G	-	7	5	2.5	76	82#	RECT. STD.; R = 60 or more reqd.
2E22	4000	12	1	6.3	-	0	AMPL. (L at 71 for GM; Plate Cap to upper left contact 6-pin socket)
3LF4	1800	6	2	3.0	58	31	AMPL. (Short on 4-5)
6AG5 RED MIN.	3000	1	9	6.3	66	10	AMPL. (Short on 4-5)
6AG7	4700	4	2	6.3	72	15	AMPL.
6BG6G	6000	9	6	6.3	73	16	AMPL. (Plate Cap to Pin 3 of 6-pin socket)
6AT6 RED MIN.	Do not test triode section as it may damage the tube.						

SECTION 100-633-501

TUBE TYPE	AVERAGE MUT. COND.	A	B	FIL	L	R	NOTATIONS
6Q5	-	7	5	6.3	40	82#	RECT. STD.; R = 60 or more reqd.
6SC7 ϕ	(1300	7	9	6.3	30	0	RECT. STD.
	(1300	10	9	6.3	30	0	RECT. STD.
6SF7 ϕ	)1500	7	9	6.3	54	0	RECT. STD. (Also press 117N7)
	) -	12	4	6.3	0	0	DIODE
6SG7	2800	4	2	6.3	65	10	AMPL.
6SL7 ϕ	(1300	8	9	6.3	40	0	RECT. STD. (Also press 117N7)
	(1500	10	4	6.3	53	0	AMPL. (Short on 2-3)
6SN7 ϕ	)1300	8	9	6.3	40	25	RECT. STD. (Also press 117N7)
	)1650	10	4	6.3	56	25	AMPL. (Short on 2-3)
6SQ7 ϕ	(1000	12	9	6.3	41	82	DIODE; Amp. Section
	(-	9	4	6.3	0	0	DIODE
	(-	9	9	6.3	0	0	DIODE
6SR7 ϕ	)1000	12	9	6.3	41	82	DIODE; Triode Section
	) -	9	4	6.3	0	0	DIODE; Diode No. 1
	) -	9	9	6.3	0	0	DIODE; Diode No. 2
6ST7 ϕ	(1000	12	9	6.3	41	82	DIODE; Triode Section
	(-	9	4	6.3	0	0	DIODE; Diode No. 1
	(-	9	9	6.3	0	0	DIODE; Diode No. 2
7AG7	1800	6	2	6.3	57	15	AMPL.
7F7	(1400	2	9	6.3	53	0	AMPL. No. 1 Plate (Short on 1-4-5)
	(
	(1400	12	5	6.3	53	0	AMPL. No. 2 Plate
7T7	2700	6	2	6.3	65	10	AMPL.
12A5	1800	2	10	12.6	58	42	AMPL.
12SC7 ϕ	(2000	7	9	12.6	30	0	RECT. STD.
	(2000	10	9	12.6	30	0	RECT. STD.
12SF7 ϕ	)1500	7	9	12.6	54	0	RECT. STD. (Also press 117N7)
	) -	12	4	12.6	0	0	DIODE
12SL7GT ϕ	(1400	8	9	12.6	53	0	RECT. STD. (Also press 117N7)
	(1400	10	4	12.6	53	0	AMPL. (Short on 2-3)
12SN7GT ϕ	)1500	8	9	12.6	54	25	RECT. STD. (Also press 117N7)
	)1500	10	4	12.6	54	25	AMPL. (Short on 2-3)
12SQ7 ϕ	(1000	12	9	12.6	41	82	DIODE; Triode Section
	(-	9	4	12.6	0	0	DIODE
	(-	9	9	12.6	0	0	DIODE
12SR7 ϕ	)1000	12	9	12.6	41	82	DIODE; Triode Section
	) -	9	4	12.6	0	0	DIODE; Diode No. 1
	) -	9	9	12.6	0	0	DIODE; Diode No. 2
117Z6G	(-	7	2	117.	40	0	RECT. STD.
	(-	7	5	117.	40	0	RECT. STD.
807	3800	12	1	6.3	70	27	AMPL. (Plate Cap to Pin 4 of (6-pin socket
884	-	7	5	6.3	40	82#	RECT. STD.; R = 60 or more reqd.
885	-	1	6	2.5	40	82#	RECT. STD.; R = 60 or more reqd.
1612	(1100	1	9	6.3	-	19	AMPL.; Cap Grid)L at 60 for GM;)Min. 770; 30%
	(
	(800	8	5	6.3	-	21	AMPL.; Pin Grid)Fil. Act.
1633 ϕ	)1500	8	9	25.	54	27	RECT. STD. (Also press 117N7)
	)1500	10	4	25.	54	27	AMPL. (Short on 2-3)
2050	-	8	5	6.3	40	82#	RECT. STD.; R = 32 or more reqd.
2051	-	8	5	6.3	40	82#	RECT. STD.; R = 32 or more reqd.
TS251	(-	11	5	50.	40	0	Check for shorts
	(-	11	5	50.	40	0	RECT. STD.
	(1800	8	5	50.	-	41	AMPL.; (L at 60 for GM; Min. (1260; 25% Fil. Act.

Start at given R; reduce to strike and test on GOOD-REPLACE; Minimum R given under "Notations."