SUPREME TUBE TESTER

MODEL 89-S
OPERATING DATA

PRELIMINARY ADJUSTMENT. Set the "LEAKAGE, QUALITY" tumbler switch to the "LEAKAGE" position, and rotate the "PRIMARY VOLTS SELECTOR" control knob to a position which approximates the local power supply potential. Then, (1) locate in the first column of the "TUBE LIST," below, the tube which is to be tested, (2) observe the corresponding "FILAMENT VOLTS SELECTOR" setting, and (3) the proper setting for the "FILAMENT RETURN SELECTOR" control knob when testing octal tubes.

LEAKAGE TEST. After completing the preliminary adjustment, (1) set the "FILAMENT-HEATER VOLTAGE" control knob, (and the "FILAMENT RETURN SELECTOR" control knob, when testing octal tubes) to the proper position, (2) place the tube in the proper socket and connect the top cap terminal, if any, to the proper "TOP CAP" pin jack, and (3) depress the switch buttons, one at a time, so as to reveal any inter-element leakages or "shorts" by a glow of both elements of the neon lamp; if more than one switch button is indicated in the last column, the indicated switch buttons should be depressed and released together. A momentary glow of "flicker" of one element, only, of the neon lamp, indicates a capacitive surge rather than a tube defect. Intermittent tube leakages may be revealed by gently thumping the tube as each button is depressed.

QUALITY TEST. After completing the preliminary adjustment and the leakage test, (1) set the "LEAKAGE, QUALITY" tumbler switch to the "QUALITY" position, (2) set the "QUALITY TEST SELECTOR" control knob to the position indicated in the next-to-the-last column and (3) depress the button (or buttons) indicated in the last column for observing the meter indication of the tube condition. A short-circuited tube will cause the meter pointer to vibrate violently about its zero position, when the depressed buttons should be released immediately.

TUBE LIST

GROUP "A"
(Most Popular Tubes)

Type	Fil. Volts	Qlty. Sltr.	Buttons
01-A	5.0	71.5	F
24-A	2.5	66.0	4
26	1.5	69.5	F
27	2.5	67.5	4
35/51	2.5	67.5	4
45	2.5	66.0	F
47/PZ	2.5	66.0	F
71-A	3.3	69.5	F
80	5.0	64.5	F

GROUP "B"
(Glass Tube List)

Type	Fil. Volts	Qlty. Sltr.	Buttons
1A6	2.0	74.0	F
1C6	2.0	69.0	F
2A3	2.5	46.0	F
2A5	2.5	66.0	5
2A6	2.5	66.0	5
2A7	2.5	66.0	6
2B6	2.5	68.0	5 & 6
2B7	2.5	68.0	6
2Y4	2.5	50.5	4
2Z2/G84	2.5	71.5	F
5Z3	5.0	54.0	F
6A4/LA	6.3	66.0	F
6A6	6.3	45.5	4
6A7	6.3	63.0	6
6B5	6.3	68.5	F & 5
6B6	6.3	66.0	5 & 6
6B7	6.3	68.0	6
6C6	6.3	63.0	5
6C7	6.3	59.5	6
6D6	6.3	64.0	5
6D7	6.3	55.5	6
6E6	6.3	50.0	4
6E7	6.3	60.0	6
6F7	6.3	66.0	6
6G7	6.3	47.0	3 & 5
6H7	6.3	66.0	6
6Y5-S	6.3	78.5	4
6Y5	6.3	45.0	4
6Z3/1v	6.3	48.0	3
6Z4/84	6.3	43.5	4
6Z5	12.6(a)	46.0	4
12A5	12.6(b)	66.0	5
12A7	12.6	43.0	4 & 6
12Z3	12.6	41.5	3
12Z5	12.6(c)	37.0	3 & 5
25Y5	25.0	47.5	3 & 4
25Z5	25.0	37.5	3 & 4
00A	5.0	72.0	F
01A	5.0	71.5	F
1	6.3	66.0	3
1v-6Z3	6.3	48.0	3
G2-S	2 0	70.5	4
G4-S	2.0	77.0	4
10	7.5	70.0	F
10-X	7.5	70.0	F
12-A	3.3	68.0	F
14	14.0	67.5	4
15	2.0	76.5	4
17	14.0	67.5	4
18	14.0	59.5	5
19	2.0	64.0	F
20	3.3	81.5	F
22-o	3.3	71.5	F
22-T	3.3	86.0	F
24-A	2.5	66.0	4
25/25-S	1.5	85.0	F
26	1.5	69.5	F
27	2.5	67.5	4
29	2.5	67.5	5
30	1.5	71.5	F
30-X	2.0	76.0	F
31	1.5	74.0	F
32	1.5	73.0	F
33	1.5	69.0	F
34	2.0	70.5	F
51/35	2.5	67.5	4
36	6.3	65.0	4
37	6.3	66.0	4
38	6.3	67.5	4
39/44	6.3	66.0	4
40	5.0	70.0	F
41	6.3	61.5	5
42	6.3	62.5	5
43	25.0	50.5	5
44/39	6.3	66.0	4
45	2.5	66.0	F
46	2.5	66.0	F
47/PZ	2.5	66.0	F
48	30.0	50.0	5
49	2.0	69.5	F
50	7.5	69.5	F
51/35	2.5	67.5	F
52	6.3	63.5	F
53	2.5	47.5	4
55	2.5	66.0	5
56	2.5	65.0	4
57	2.5	61.0	5
57-AS	6.3	53.0	5
58	2.5	62.5	5
58-AS	6.3	66.0	5
59	2.5	62.5	6
59-B	2.5	64.5	F
64-A	6.3	64.0	4
64	6.3	68.5	4
65-A	6.3	65.5	4
65	6.3	65.5	4
67-A	6.3	63.5	4
67	6.3	67.5	4
68-A	6.3	66.5	4
68	6.3	66.0	4
69	6.3	66.0	5
70	6.3	73.0	5
71-A	3.3	69.5	F
75	6.3	57.0	5
76	6.3	60.5	4
77	6.3	57.5	5
78	6.3	65.0	5
79	6.3	45.5	4
80	5.0	64.5	F
81	7.5	74.0	F
82	2.0	25.5	F
83	3.3	20.5	F
83-V	5.0	39.0	F
G84/2Z2	2.5	71.5	F
84/6Z4	6.3	43.5	4
85	6.3	62.5	5
87-S	6.3	60.0	5
88-S	6.3	63.5	5
89	6.3	65.5	5
89-RS	6.3	66.0	5
99-O	3.3	83.0	F
99-T	3.3	77.0	F
182-B	5.0	68.0	F
183/483	5.0	67.0	F
205-D	5.0	69.5	F
257	5.0	67.5	F
401	3.3	70.0	F&TC
403	3.3	68.0	F&TC
482-A	5.0	67.5	F
482-B	5.0	66.0	F
483/183	5.0	67.0	F
484	3.3	62.5	4
485	3.3	66.0	4
486	3.3	72.0	F
585/586	7.5	69.5	F
950	2.0	68.0	F
951	2.0	74.0	F
AF	2.5	18.5	F
AG	5.0	14.5	F
GA	5.0	66.0	F
LA/6A4	6.3	66.0	F
PA	6.3	66.0	4
PZ/47	2.5	66.0	F
PZH	2.5	60.0	6
WUND-A	2.5	68.0	5
WUND-AA	6.3	66.0	5

GROUP "C"
(Octal Tubes)

Type	Fil. Volts	Fil. Ret.	Qlty. Sltr.	Buttons
5Z4	5.0	8	51.0	F
6A8	6.3	7	64.0	8
6C5	6.3	7	63.5	8
6D5	6.3	7	67.5	8
6F6	6.3	7	67.5	8
6H6	5.0	7	72.5	4 & 8
6J7	6.3	7	61.0	8
6K7	6.3	7	64.0	8
6L7	6.3	7	55.0	8

GROUP "D"
(Future Tubes)

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(a) For 6Z5 tube tests, throw the "6Z5" tumbler switch from the "NORMAL" to the "6Z5" position during the tests.
(b) For 12A5 tube tests, throw the "12A5" tumbler switch from the "NORMAL" to the "12A5" position during the tests.
(c) For 12Z5 tube tests, throw the "12Z5" tumbler switch from the "NORMAL" to the "12Z5" position during the tests.

SUPREME INSTRUMENT CORPORATION
GREENWOOD, MISSISSIPPI, U. S. A.

STOCK NO. 7033-A

PRINTED IN U. S. A.