

# SUPREME TUBE TESTER MODEL 89-D OPERATING DATA

**PRELIMINARY ADJUSTMENTS.** i. Connect the A. C. plug in the socket. ii. Rotate "MTR. CIRCUIT SELECTOR" switch to "LKG." position. iii. Rotate "PRIMARY VOLTS SELECTOR" switch until needle of meter reads one half scale deflection. This automatically sets primary tap of transformer correctly to match local line voltage. iv. Locate in first column of the "TUBE LIST" below, the tube which is to be tested. v. Observe the corresponding "FILAMENT VOLTS SELECTOR" setting" and so set. vi. And the proper setting for the "FILAMENT RETURN SELECTOR" control knob when testing octal tubes. When testing glass tubes, set the "FILAMENT RETURN SELECTOR" control knob to "No. 7" position. The "FILAMENT RETURN SELECTOR" control knob should not be left at the "T.C." position when testing non-octal tubes.

**LEAKAGE TEST.** i. Set "MTR. CIRCUIT SELECTOR" switch to "LKG." position. ii. Place the tube in the proper socket and connect top cap terminal, if any to the "TOP CAP" pin jack, and allow tube to assume proper operating temperature, and iii. Depress the switch buttons, one at a time, so as to reveal any inter-elemental 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" or "flicker" of one element, only, of the neon lamp, indicates a capacity 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: i. Set the "MTR. CIRCUIT SELECTOR" switch in the "TUBE" position. ii. Set the "QUALITY TEST SELECTOR" control to the position indicated in the next-to-the-last column, and iii. Depress the button (or buttons) indicated in the last column and observe the meter indication of the tube condition. A short-circuited tube will cause the meter pointer to vibrate violently about its zero position, and if such phenomenon be observed the depressed buttons should be released IMMEDIATELY.

## TUBE LIST

GROUP "A" (Most Popular Tubes)				GROUP "B" (Glass Tube List)				GROUP "C" (Octal (Metal) Tubes)				GROUP "D" (Future Tubes)												
Type	Fil.V. Slctr.	Qty. Slctr.	But-tons	Type	Fil.V. Slctr.	Qty. Slctr.	But-tons	Type	Fil.V. Slctr.	Qty. Slctr.	But-tons	Type	Fil.V. Slctr.	Qty. Slctr.	But-tons									
01-A	5.0	71.5	F	6B5	6.3	68.5	F&5	19	2.0	64.0	F	56	2.5	66.0	4	89	6.3	65.5	5	5Z4	5.0	8	40.0	F
24-A	2.5	68.0	4	6B6	6.3	66.0	5&6	20	3.3	81.5	F	56AS	6.3	67.0	4	89-RS	6.3	66.0	5	6A8	6.3(d)	7	61.0	8
26	1.5	69.5	F	6B7	6.3	68.0	6	22-o	3.3	71.5	F	57	2.5	63.0	5	99-O	3.3	83.0	F	6B6	6.3(d)	7	64.0	8
27	2.5	67.5	4	6C6	6.3	63.0	5	22-T	3.3	86.0	F	57AS	6.3	63.0	5	99-T	3.3	77.0	F	6C5	6.3(d)	7	65.0	8
35/51	2.5	67.5	4	6D6	6.3	65.5	5	24-A	2.5	68.0	4	58	2.5	62.5	5	182-B	5.0	68.0	F	6D5	6.3(d)	7	66.0	8
45	2.5	66.0	F	6D7	6.3	63.0	6	25S/1B5	2.0	73.0	F	58AS	6.3	67.0	5	183/483	5.0	67.0	F	6F5	6.3	7	63.0	8
47/PZ	2.5	66.0	F	6E6	6.3	50.0	4	26	1.5	69.5	F	59	2.5	66.0	6	205-D	5.0	69.5	F	6F6	6.3(d)	7	66.0	8
71-A	5.0	66.5	F	6E7	6.3	65.5	6	27	2.5	67.5	4	59-B	2.5	64.5	F	257	5.0	67.5	F	6H6	6.3	7	88.5	4&8
80	5.0	64.5	F	6F7	6.3	66.0	6	29	2.5	67.5	5	64-A	6.3	64.0	4	401	3.3	70.0	F&TC	6J7	6.3	7	65.0	8
				6G7	6.3	47.0	3&5	30	2.0	73.5	F	64	6.3	68.5	4	403	3.3	68.0	F&TC	6K7	6.3(d)	7	62.5	8
				6H7	6.3	66.0	6	30-X	2.0	76.0	F	65-A	6.3	65.5	4	482-A	5.0	67.5	F	6L7	6.3(d)	7	53.0	8
				6Y5-S	6.3	43.0	4	31	2.0	72.0	F	65	6.3	65.5	4	482-B	5.0	66.0	F	6P7	6.3(d)	8	67.0	8
				6Y5	6.3	45.0	4	32	2.0	75.0	F	67-A	6.3	63.5	4	483/183	5.0	67.0	F	25Z5MG25.0(d)	7	36.0	4&8	
				6Z3/1v	6.3	48.0	3	33	2.0	69.0	F	67	6.3	67.5	4	484	3.3	62.5	4					
				6Z4/84	6.3	43.5	4	34	2.0	70.5	F	68-A	6.3	66.5	4	485	3.3	66.0	4					
				6Z5	12.6(a)	44.0	4	35/51	2.5	67.5	4	68	6.3	66.0	4	486	3.3	72.0	F					
				12A5	12.6(b)	66.0	5	36	6.3	65.0	4	69	6.3	66.0	5	585/586	7.5	69.5	F					
				12A7	12.6	43.0	4&6	37	6.3	66.0	4	70	6.3	73.0	5	950	2.0	68.0	F					
				12Z3	12.6	41.5	3	38	6.3	67.5	4	71-A	5.0	66.5	F	951	2.0	70.0	F					
				12Z5	12.6(c)	37.0	3&5	39/44	6.3	68.0	4	75	6.3	57.0	5	AF	2.5	18.5	F					
				25Y5	25.0	47.5	3&4	40	5.0	70.0	F	76	6.3	67.0	4	AG	5.0	14.5	F					
				25Z5	25.0	37.5	3&4	41	6.3	61.5	5	77	6.3	57.5	5	GA	5.0	66.0	F					
				00A	5.0	72.0	F	42	6.3	66.0	5	78	6.3	67.0	5	LA/6A4	6.3	66.0	F					
				01A	5.0	71.5	F	43	25.0	50.5	5	79	6.3	45.5	4	PA	6.3	66.0	F					
				1	6.3	66.0	3	44/39	6.3	68.0	4	80	5.0	64.5	F	PZ/47	2.5	66.0	F					
				1v/6Z3	6.3	48.0	3	45	2.5	66.0	F	81	7.5	74.0	F	PZH	2.5	60.0	6					
				2S/4S	2.5	72.5	4	46	2.5	66.0	F	82	2.5	25.5	F	WUND-A	2.5	68.0	5					
				10	7.5	70.0	F	47/PZ	2.5	66.0	F	83	5.0	15.0	F	WUND-AA	6.3	66.0	5					
				10-X	7.5	70.0	F	48	30.0	50.0	5	88-V	5.0	39.0	F									
				12-A	5.0	68.0	F	49	2.0	69.5	F	G84/2Z2	2.5	73.0	F									
				14	14.0	67.5	4	50	7.5	69.5	F	84/6Z4	6.3	43.5	4									
				15	2.0	76.5	4	51/35	2.5	67.5	4	85	6.3	62.5	5									
				17	14.0	67.5	4	52	6.3	63.5	F	85AS	6.3	63.0	5									
				18	14.0	59.5	5	53	2.5	47.5	4	87-S	6.3	60.0	5									
								55	2.5	66.0	5	88-S	6.3	63.5	5									

- (a) Throw the "6Z5" tumbler switch from the "NORMAL" to the "6Z5" position during the test.
- (b) Throw the "12A5" tumbler switch from the "NORMAL" to the "12A5" position during the test.
- (c) Throw the "12Z5" tumbler switch from the "NORMAL" to the "12Z5" position during the test.
- (d) Throw the "12A5" and the "12Z5" tumbler switches from the "NORMAL" to the "12A5" and "12Z5" positions during the test.

## SUPREME INSTRUMENTS CORPORATION GREENWOOD, MISSISSIPPI, U. S. A.



**[www.StevenJohnson.com](http://www.StevenJohnson.com)**

**Antique Technolgy, Tube Radios and Test Equipment  
Vintage Schematics, and Publications**

**Steve's Antique Technology**