SUPREME RADIO DIAGNOMETER -- Standard Series -- OPERATING DATA

PRELIMINARY PROCEDURE. Set the "OSCILLATOR, TUBE TEST" tumbler switch to the "TUBE TEST" position, and rotate the "ADJUST TO LINE VOLTAGE" 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) set the "FIL.-HTR. VOLTAGE" control knob to the position indicated in the second column, and (3) insert the tube into the proper socket and connect the top cap terminal, if any, to the "TOP CAP, TUBE TEST" pin jack.

LEAKAGE TEST. After completing the "Preliminary Procedure," (1) set the "LEAKAGE, QUALITY" tumbler switch to the "LEAKAGE" position, and (2) depress the numbered push buttons in the lower right hand section of the panel, one at a time, so as to reveal any inter-element leakages or "shorts" by a glow of both elements of the neon lamp: a momentary glow or "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. Example: A neon glow when depressing the number 1 button and again when depressing the number 2 button when testing a type 35 tube would indicate a leakage between the screen and plate elements.

QUALITY TEST. After completing the "Preliminary Procedure" and the "Leakage Test," rotate the "TUBE TEST SELECTOR" control knob to the position indicated in the third column of the "TUBE LIST," and (2) depress the buttons indicated in the fourth column for observing the meter indication of the tube condition. The buttons indicated in the fourth column are located in the lower right hand section of the panel. After completing the test, rotate the "ADJUST TO LINE VOLTAGE" control knob to the "OFF" position.

TUBE LIST

GROUP "A"	2A5 - 2.5 - 47.0 - 5	6Y5V - 6.3 - 27.0 - 6	10 - 7.5 - 72.5 - 3	30 - 2.0 - 75.0 - 3	45 - 2.5 - 49.5 - 3	64 - 6.3 - 55.5 - 5	81 - 7.5 - 91.0 - 3	182 - 5.0 - 58.5 - 3	483 - 5.0 - 56.0 - 3	PZH - 2.5 - 39.5 - 5
(Most Popular Tubes)	2A6 - 2.5 - 37.0 - 5	6Y5 - 6.3 - 54.0 - 6	10X - 7.5 - 72.0 - 3	30X - 2.0 - 75.0 - 3	46 - 2.5 - 48.0 - 3	65A - 6.3 - 47.5 - 5	82 - 2.5 - 50.0 - 3	182A - 5.0 - 58.5 - 3	484 - 3.3 - 40.0 - 5	WUND-A - 2.5 - 56.0 - 5
01A - 5.0 - 73.0 - 3	2A7 - 2.5 - 42.0 - 5	6Z3 - 6.3 - 29.5 - 1	12A - 5.0 - 50.0 - 3	31 - 2.0 - 71.5 - 3	47 - 2.5 - 47.0 - 3	65 - 6.3 - 45.0 - 5	83v - 5.0 - 26.0 - 3	182B - 5.0 - 58.5 - 3	485 - 3.3 - 44.5 - 5	WUND-AA- 6.3 - 55.0 - 5
24A - 2.5 - 50.0 - 5	2B6 - 2.5 - 40.0 - 5	6Z4 - 6.3 - 26.0 - 5	14 - 14.0 - 51.0 - 5	32 - 2.0 - 74.0 - 3	48 - 30.0 - 33.5 - 5	67A - 6.3 - 45.0 - 5	83 - 5.0 - 50.0 - 3	183 - 5.0 - 56.0 - 3	486 - 3.3 - 80.0 - 3	
26 - 1.5 - 67.5 - 3	2B7 - 2.5 - 59.0 - 5	*6Z5 - 12.0 - 28.0 - 6	15 - 2.0 - 74.0 - 5	33 - 2.0 - 58.0 - 3	49 - 2.0 - 63.5 - 3	67 - 6.3 - 49.5 - 5	G84 - 2.5 - 90.5 - 3	205D - 5.0 - 72.0 - 3	499 - 3.3 -100.0 - 3	
27 - 2.5 - 52.0 - 5	2Y4 - 2.5 - 30.5 - 5	† 12A5 - 12.0 - 51.0 - 6	17 - 14.0 - 53.0 - 5	34 - 2.0 - 83.0 - 3	50 - 7.5 - 65.0 - 3	68 - 6.3 - 43.5 - 5	84 - 6.3 - 26.0 - 5	257 - 5.0 - 68.0 - 3	585 - 7.5 - 65.0 - 3	**GROUP "C"**
35 - 2.5 - 48.0 - 5	5Z3 - 5.0 - 47.5 - 3	12A7 - 12.0 - 25.0 - 5&7	18 - 14.0 - 40.0 - 5	35 - 2.5 - 48.0 - 5	51 - 2.5 - 48.0 - 5	68A - 6.3 - 45.5 - 5	85 - 6.3 - 41.0 - 5	401 - 3.3 - 57.5 - 3	586 - 7.5 - 65.0 - 3	**(Future Tubes)**
45 - 2.5 - 49.5 - 3	6A3 - 6.3 - 55.0 - 1	12Z3 - 12.0 - 21.0 - 1	19 - 2.0 - 48.5 - 3	36 - 6.3 - 41.5 - 5	52 - 6.3 - 48.5 - 3	69 - 6.3 - 45.5 - 5	87S - 6.3 - 41.5 - 5	403 - 3.3 - 56.0 - 3	P861 - 6.3 - 26.0 - 5	
47 - 2.5 - 47.0 - 3	6A4 - 6.3 - 56.0 - 3	‡ 12Z5 - 12.0 - 13.0 - 1&6	KR20 - 2.5 - 45.0 - 5	37 - 6.3 - 53.0 - 5	53 - 2.5 - 30.5 - 7	70 - 6.3 - 82.0 - 5	88 - 5.0 - 50.0 - 3	410 - 7.5 - 72.5 - 3	950 - 2.0 - 65.0 - 3	----- ----- ----- -----
71A - 5.0 - 59.0 - 3	6A7 - 6.3 - 41.5 - 5	14Z3 - 14.0 - 21.0 - 1	20 - 3.3 - 98.0 - 3	38 - 6.3 - 49.5 - 5	55 - 2.5 - 45.5 - 5	71A - 5.0 - 59.0 - 3	88S - 6.3 - 43.5 - 5	420 - 3.3 - 98.0 - 3	951 - 2.0 - 69.5 - 3	
80 - 5.0 - 51.0 - 3	6B7 - 6.3 - 53.0 - 5	25Z5 - 25.0 - 16.0 - 1&6	22 - 3.3 - 80.0 - 3	39 - 6.3 - 49.0 - 5	56 - 2.5 - 39.5 - 5	75 - 6.3 - 35.5 - 5	89 - 6.3 - 43.5 - 5	422 - 3.3 - 80.0 - 3	986 - 5.0 - 50.0 - 3	
	6C6 - 6.3 - 43.0 - 5	00A - 5.0 - 63.0 - 3	KR22 - 6.3 - 39.0 - 5	40 - 5.0 - 73.0 - 3	57 - 2.5 - 36.0 - 5	76 - 6.3 - 36.0 - 5	89RS- 6.3 - 18.5 - 1&6	431 - 2.0 - 71.5 - 3	AD - 6.3 - 58.0 - 1	----- ----- ----- -----
GROUP "B"	6C7 - 6.3 - 39.5 - 5	01A - 5.0 - 73.0 - 3	24A - 2.5 - 50.0 - 5	41 - 6.3 - 42.0 - 5	57A - 6.3 - 36.5 - 5	77 - 6.3 - 40.0 - 5	90 - 2.5 - 45.0 - 5	445 - 2.5 - 49.5 - 3	AF - 2.5 - 49.0 - 3	
(Complete Tube List)	6D6 - 6.3 - 44.0 - 5	KR1 - 6.3 - 29.5 - 1	25S - 2.0 - 79.0 - 3	42A - 2.5 - 39.5 - 5	58 - 2.5 - 40.5 - 5	78 - 6.3 - 45.0 - 5	92 - 6.3 - 39.0 - 5	450 - 7.5 - 65.0 - 3	AG - 5.0 - 50.0 - 3	
1A6 - 2.0 - 76.5 - 3	6D7 - 6.3 - 38.0 - 5	1v - 6.3 - 29.5 - 1	26 - 1.5 - 67.5 - 3	42 - 6.3 - 43.5 - 5	58A - 6.3 - 41.0 - 5	79 - 6.3 - 27.0 - 6	95 - 2.5 - 46.0 - 5	481 - 7.5 - 91.0 - 3	GA - 5.0 - 54.5 - 3	----- ----- ----- -----
1C6 - 2.0 - 72.0 - 3	6E7 - 6.3 - 42.5 - 5	1 - 6.3 - 51.0 - 1	27HM- 2.5 - 39.5 - 5	43C - 25.0 - 33.5 - 5	59 - 2.5 - 39.5 - 5	80M - 5.0 - 50.0 - 3	98 - 6.3 - 26.0 - 5	482 - 5.0 - 58.5 - 3	LA - 6.3 - 56.0 - 3	
2A3 - 2.5 - 31.0 - 3	6F7 - 6.3 - 46.5 - 5	G2S - 2.5 - 70.0 - 5	27 - 2.5 - 52.0 - 5	43 - 25.0 - 31.5 - 5	59B - 2.5 - 47.5 - 3	80 - 5.0 - 51.0 - 3	99 - 3.3 -100.0 - 3	482A - 5.0 - 58.5 - 3	PA - 6.3 - 45.0 - 5	
2A3H - 2.5 - 32.0 - 3	6G7S - 6.3 - 18.5 - 1&6	G4S - 2.5 - 85.0 - 5	29 - 2.5 - 43.0 - 5	44 - 6.3 - 49.0 - 5	64A - 6.3 - 43.5 - 5	81M - 7.5 - 91.0 - 3	181S - 3.3 - 64.5 - 3	482B - 5.0 - 58.5 - 3	PZ - 2.5 - 47.0 - 3	----- ----- ----- -----

*For 6Z5 tube tests, throw the "6Z5" tumbler switch from the "NORMAL" to the "6Z5" position during the tests.

†For 12A5 tube tests, throw the "12A5" tumbler switch from the "NORMAL" to the "12A5" position during the tests.

‡For 12Z5 tube tests, throw the "12Z5" tumbler switch from the "NORMAL" to the "12Z5" position during the tests.

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