

**Instructions For Tube Tester**

## OPERATING INSTRUCTIONS

**CAUTION: TO PREVENT SERIOUS DAMAGE TO THE METER, ALWAYS MAKE A "SHORT" TEST FIRST AND THEN MAKE THE "VALUE" TEST.**

- Set all selector slide switches to the "K" position.
- Plug line cord in power outlet, and AC Pilot will glow.
- Set FILAMENT voltage switch to the lettered position as indicated in the column "Fil." on the Tube Chart for the tube to be tested.  
**DO NOT TURN THIS SWITCH AFTER A TUBE IS INSERTED INTO ANY OF THE TUBE SOCKETS.**
- Insert tube to be tested into the proper tube socket. Connect top cap lead to top cap (if any) of tube to be tested.

### "FILAMENT CONTINUITY" TEST

- Set the particular selector slide switch specified in column "F" in the "F" position.
- Set the particular selector slide switches specified in column "N" to the "N" position.
- Set the particular selector slide switch specified in column "C" to the "P" position.
- If the indicator light glows, there is continuity in the filament of the tube under test.
- Return the particular selector slide switch specified in column "C" to the "K" position.

### "SHORT" TEST

- With the exception of the selector slide switch specified in Column "C" and the selector slide switches already set to a "F" or "N" position, move all other selector slide switches, one at a time, to the "P" position and then back to the "K" position. A steady glow of the indicator light when an individual selector slide switch is in the "P" position, indicates a short between tube elements.

**NOTE:** When testing tubes such as the 6V6 and 35L6, a slight glow of the indicator light may be disregarded due to the high inherent leakage of these tubes.

### "VALUE" TEST

- Set the LOAD control to the number specified in the column "Load" on the Tube Chart.
- Set the particular selector slide switch as indicated in column "E" to the "P" position.
- ~~Let tube warm up for 30 seconds.~~
- Push the SHORT-VALUE TEST switch to the "VALUE" position. If the meter pointer is in the GREEN section of the scale, the tube is GOOD. If pointer is in the RED section of the scale, the tube is BAD.

**NOTE:** When checking diodes or rectifiers read "DIODES OK" scale of meter.

- Return all selector slide switches to the "K" position.
- Set the POWER switch in the OFF position.

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
1A3	A	1	2,5	7	6	100	3Q5	B	2	8	7	5	40
1A5	A	2	—	7	5	30	3S4	B	1	2,5	7	3	40
1AX2	A	1	4,5,6,8,9	7	TC	100	3V4	B	1	5	7	6	40
1B3	A	2	1,3,5,8	7	TC	100							
1E8	A	4	—	5	2	65	*4A6	B	2	8	7	4	40
1F5	B	4	—	7	5	30				8	7	5	40
1G4	A	2	—	7	5	30	*4BC8	B	4	—	5	2	35
1G6	A	2	—	7	5	30				—	5	2	35
							*4BQ7	B	4	—	5	2	30
1H5	A	2	—	7	5	100				—	5	2	30
						40	4BS8	C	4	—	5	2	30
1L4	A	7	5	7	6	65				—	5	2	30
1L6	A	1	—	7	4	65	4BU8	C	4	—	5	7	30
1LA6	A	1	—	8	4	60	4BZ6	C	3	—	4	1	25
1LB4	A	1	—	8	6	60				—	5	2	30
1LB6	A	1	—	8	6	60	*4BZ7	B	4	—	5	7	30
1LC5	A	1	5	8	6	60				—	5	2	30
1LC6	A	1	—	8	4	60	4BZ8	C	4	—	5	7	30
										9	5	2	30
1LD5	A	1	—	8	4	100	4CX7	C	4	9	5	7	30
						60				—	4	1	30
1LG5	A	1	5	8	6	60	4CY5	C	3	—	4	1	30
1LH4	A	1	—	8	4	100	4DT6	C	3	—	4	1	30
						60							
1LN5	A	1	5	8	6	60	5A6	C	4	3,9	5	7	30
1N5	A	2	—	7	TC	60	5AM8	C	4	—	5	2	30
1R5	A	7	5	1	4	60				—	5	8	30
1S4	A	1	5,6	7	3	60	5AN8	C	4	—	5	2	30
										—	5	8	30
1S5	A	1	—	7	3	100	5A05	C	3	7	4	1	35
						60	5AS4	C	2	—	8	4	40
1T4	A	2	5	1	6	60	5AT8	C	4	—	5	6	40
1T5	A	7	—	7	5	60				—	5	1	30
1U4	A	7	5	1	6	60				—	5	9	30
1U5	A	1	—	7	6	60				—	5	9	30
						100	*5AU4	C	2	—	8	4	20
1U6	A	1	—	7	4	60				—	5	6	20
1V2	A	4	1,2,3,6,7,8	5	9	100	5AV8	C	4	—	5	2	30
1X2	A	1	4,5,6,8,9	2	TC	100				—	5	6	30
							*5AW4	C	2	—	8	4	30
2AF4	B	3	6,7	4	2	30				—	8	4	30
2B3	A	2	1,8	7	TC	100	*5AZ4	C	2	—	8	6	30
2BN4	B	3	6,7	4	2	30				—	8	6	30
2V2	B	2	4,5,6,8	7	TC	100	5B8	C	4	—	5	2	30
										—	5	6	30
3A3	B	2	1,3,5,8	7	TC	100	5BE8	C	4	—	5	1	30
3A4	B	1	2,5	7	4	30				—	5	9	30
3A5	B	1	4	7	3	60	5BK7	C	4	—	5	2	35
						60				—	5	7	35
3AL5	B	3	—	4	2	40	5BR8	C	4	—	5	1	60
						40				—	5	9	30
3AU6	B	3	—	4	7	40	5BT8	C	4	—	5	1	100
3AV6	B	3	—	4	1	35				—	5	2	100
						30	5CG8	C	4	—	5	8	30
						100				8	1	30	
						100				—	5	9	30
										—	5	9	30
3B2	B	2	1,3,5,6,8	7	TC	100	5J6	C	3	—	4	5	35
3BC5	B	2	2	4	1	30				—	4	6	35
3BE6	B	2	—	4	1	30	5R4	C	4	—	4	4	30
3BN4	B	3	6,7	4	2	30				—	4	6	30
3BN6	B	3	—	4	5	100	5T4	C	4	—	4	4	30
3BU8	D	4	—	5	7	30				—	4	6	30
3BY6	B	3	—	4	1	35	5T8	C	4	—	4	6	100
3BZ6	B	3	—	4	1	35				—	4	2	100
3CB6	B	3	—	4	1	30				—	5	6	100
										—	5	8	30
3CF6	B	3	—	4	1	30				—	5	8	30
3CS6	B	3	—	4	1	30	*5U4	C	2	—	8	4	20
3DT6	B	3	—	4	1	60				—	8	6	20
3E5	B	1	5	7	6	60	5U8	C	4	—	5	2	30
3E6	B	1	5	7	6	60				—	5	9	30
3LF4	B	1	7	8	6	40				—	8	4	20
3Q4	B	1	2,5	7	3	35	*5V3	C	2	—	8	6	20

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
5V4	C	2	—	8	4	30	6AS7	D	7	—	8	1	30
	C	2	—	8	6	30		D	7	—	8	4	30
	C	2	—	8	7	30	6AS8	D	4	—	5	2	30
5V6	C	2	—	8	5	30		D	4	—	5	6	30
5W4	C	2	—	8	4	30		D	3	—	4	1	30
	C	2	—	8	6	30	6AT6	D	3	—	4	5	100
	C	2	—	8	3	30		D	3	—	4	6	100
5X4	C	7	—	8	5	30	6AT8	D	4	—	5	1	35
	C	7	—	8	5	35		D	4	—	5	9	35
5X8	C	4	—	5	2	35	6AU4	D	7	—	8	5	30
	C	4	—	5	7	35		D	7	—	8	5	30
5Y3	C	2	—	8	4	30	6AU5	D	2	—	7	1	30
	C	2	—	8	6	30		D	3	—	4	1	30
5Y4	C	7	—	8	3	30	6AU6	D	4	—	5	2	30
	C	7	—	8	5	30		D	4	9	5	7	30
5Z4	C	2	—	8	4	30	6AU7	D	4	—	5	2	30
	C	2	—	8	6	30		D	4	—	5	7	30
							6AU8	D	4	—	5	2	30
								D	4	—	5	7	30
6A8	D	2	—	7	5	30	6AV5	D	2	—	7	1	30
6AB4	D	3	—	4	6	30		D	3	—	4	5	60
6AB7	D	2	—	7	4	30	6AV6	D	3	—	4	5	100
6AB8	D	4	—	5	2	30		D	3	—	4	6	100
	D	4	—	5	9	30		D	3	—	4	5	100
6AC5	D	2	—	7	5	35	6AW8	D	4	—	5	2	30
6AC7	D	2	—	7	4	30		D	4	—	5	7	30
6AD7	D	2	—	7	1	30	6AX4	D	7	—	8	5	30
	D	2	—	7	5	30		D	2	—	7	3	30
6AF4	D	3	1,2	4	6	60	6AX5	D	2	—	7	5	30
								D	2	—	7	5	30
							6AX7	D	4	9	5	2	30
								D	4	9	5	7	30
6AF6	D	2	—	7	5	—	6AX8	D	4	—	5	2	35
	(Shadow Opens, Disregard Meter)							D	4	—	5	9	35
	D	2	—	7	8	—	6AZ8	D	4	—	5	6	30
	(Shadow Closes, Disregard Meter)							D	4	—	5	9	30
6AG5	D	3	2	4	1	30	6B4	D	2	—	7	5	30
6AG6	D	7	—	8	5	30	6B6	D	2	—	7	TC	30
6AG7	D	2	—	7	4	30		D	2	—	7	4	100
6AH4	D	2	—	7	1	30		D	2	—	7	5	100
6AH6	D	3	—	4	1	30	6B7	D	2	—	7	4	100
6AH7	D	7	—	8	1	30		D	2	—	7	5	100
	D	7	—	8	5	30	6B8	D	2	—	7	TC	30
6AJ4	D	7	3,4,6,9	8	1	30		D	2	—	7	4	100
6AJ5	D	3	7	4	1	30		D	2	—	7	5	100
													30
6AJ8	D	4	—	5	2	30	6BA6	D	3	—	4	1	30
	D	4	—	5	9	30	6BA7	D	4	—	5	2	30
6AK5	D	3	7	4	1	30	6BA8	D	4	—	5	2	30
6AK6	D	3	—	4	1	30		D	4	—	5	7	30
6AK8	D	4	—	5	8	35	6BC4	D	4	3,7,8,9	5	2	30
	D	4	—	5	2	100	6BC5	D	3	2	4	1	30
	D	4	—	5	6	100	6BC7	D	4	—	5	2	100
6AL5	D	3	—	4	2	40		D	4	—	5	6	100
	D	3	—	4	7	40		D	4	—	5	8	100
6AL7	D	2	—	7	1	100	6BC8	D	4	—	5	2	30
								D	4	—	5	7	30
6AM4	D	7	3,4,6,9	8	1	30	6BD4	D	2	—	7	5	100
6AM8	D	4	—	5	2	30	6BD5	D	2	—	7	1	30
	D	4	—	5	8	100	6BD6	D	3	—	4	1	30
6AN4	D	3	1,2	4	6	30	6BD7	D	4	—	5	2	30
6AN5	D	3	2	4	1	30		D	4	—	5	6	100
6AN8	D	4	—	5	2	30		D	4	—	5	8	100
	D	4	—	5	8	30	6BE6	D	3	—	4	1	30
6AQ5	D	3	7	4	1	30	6BE7	D	4	—	5	7	30
6AQ6	D	3	—	4	1	30	6BE8	D	4	—	5	1	30
	D	3	—	4	5	100		D	4	—	5	9	30
	D	3	—	4	6	100	6BF5	D	3	7	4	1	30
6AQ7	D	7	—	8	1	100		D	3	—	4	1	35
	D	7	—	8	3	100	6BF6	D	3	—	4	5	100
	D	7	—	8	4	30		D	3	—	4	6	100
	D	7	—	8	1	60	6BG6	D	2	—	7	5	30
6AR5	D	3	—	4	1	30	6BH6	D	3	—	4	1	30
6AR6	D	6	—	8	7	30	6BH8	D	4	—	5	2	30
6AR8	D	4	—	5	6	30		D	4	—	5	7	30
6AS5	D	2	—	4	5	60	6BJ6	D	3	—	4	1	60
6AS6	D	3	—	4	1	30							

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
6BJ7	D	4	—	5	2	100	6CH7	D	4	—	5	2	30
	D	4	—	5	6	100		D	4	—	5	7	30
	D	4	—	—	8	100	6CH8	D	5	—	4	2	30
6BJ8	D	4	—	5	8	35		D	5	—	4	2	30
	D	4	—	5	1	100	6CJ6	D	4	1,6,7	5	2	30
	D	4	—	5	6	100	6CL5	D	2	8,3,4	5	2	30
6BK5	D	4	7	5	3	30	6CL6	D	4	—	5	2	30
6BK6	D	3	—	4	1	30	6CM6	D	4	—	5	2	30
	D	3	—	4	5	100	6CM7	D	4	—	5	8	30
	D	3	—	4	6	100							
6BK7	D	4	—	5	2	30	6CN7	D	4	—	5	7	35
	D	4	—	5	7	30		D	4	—	5	1	100
6BL7	D	7	—	8	1	30		D	4	—	5	2	100
	D	7	—	8	4	30	6CQ8	D	4	—	5	2	30
6BN4	D	3	6,7	4	2	30		D	4	—	5	2	30
6BN6	D	3	—	4	5	100	6CR6	D	3	—	4	4	100
6BN8	D	4	—	5	1	100		D	3	—	4	7	30
	D	4	—	5	8	100	6CS6	D	3	—	4	4	30
	D	4	—	5	8	30	6CS7	D	4	—	5	7	30
6BQ5	D	4	1,6,8	3	2	30							
6BQ6	D	2	—	7	5	30	6CU5	D	3	5	4	2	30
6BQ7	D	4	—	5	2	30	6CU6	D	2	—	7	2	30
	D	4	—	5	2	30	6CU8	D	4	—	5	8	30
6BR7	D	4	1	5	7	30		D	4	—	5	2	30
6BR8	D	4	—	5	1	60	6CX7	D	4	—	5	2	30
	D	4	—	5	9	30		D	4	—	5	7	30
6BS8	D	4	—	5	2	30	6CY5	D	3	—	4	3	30
	D	4	—	5	7	30	6CZ5	D	4	6	5	3	50
6BT6	D	3	—	4	1	30	6D4	D	3	—	4	1	30
	D	3	—	4	5	100	6D8	D	3	—	4	5	30
	D	3	—	4	6	100	6DB6	D	3	—	4	1	30
6BT8	D	4	—	5	1	100	6DC6	D	3	—	4	1	30
	D	4	—	5	2	100	6DE6	D	3	—	4	1	30
	D	4	—	5	8	30	6DG6	D	3	—	4	5	30
6BU5	D	7	6	8	4	30	6DK6	D	3	—	4	1	30
6BU6	D	3	—	4	1	30	6DQ5	D	3	4,5,6	7	5	35
	D	3	—	4	5	100	6DQ6	D	2	—	7	1	30
	D	3	—	4	6	100	6DS5	D	3	7	4	3	30
6BU8	D	4	—	5	7	30	6DT6	D	3	—	4	1	30
6BW4	D	4	—	5	1	30	6F5	D	3	—	4	TC	35
	D	4	—	5	7	30	6F6	D	3	—	7	5	30
6BX6	D	4	1	5	2	30	6F8	D	3	—	7	5	30
6BX7	D	7	—	8	1	30		D	3	—	7	TC	30
	D	7	—	8	4	30	6G6	D	3	—	7	TC	30
6BY5	D	2	—	7	4	30	6G7	D	3	—	7	TC	30
	D	2	—	7	5	30	6H6	D	2	—	7	5	30
6BY6	D	3	—	4	1	30							
6BZ6	D	3	—	4	1	30	6H7	D	3	—	7	5	60
								D	3	—	7	TC	35
6BZ7	D	4	—	5	2	35	6J4	D	3	5,6	4	1	35
	D	4	—	5	7	35	6J5	D	3	—	7	5	35
6BZ8	D	4	—	5	2	40	6J6	D	3	—	4	5	35
	D	4	—	5	7	40		D	3	—	4	6	35
6C4	D	3	2,5	4	6	35	6J7	D	3	—	7	TC	5
6C5	D	2	—	7	5	35	6J8	D	3	—	7	TC	5
6C8	D	2	—	7	7	30		D	3	—	7	TC	40
6CA4	D	4	—	5	1	30							
	D	4	—	5	7	30	6K6	D	3	—	7	5	30
6CA5	D	3	5	4	2	30	6K7	D	3	—	7	TC	30
6CA7	D	2	—	7	5	30	6K8	D	3	—	7	5	30
6CB5	D	2	1,5,6	7	4	30	6L5	D	3	—	7	5	30
6CB6	D	3	—	4	1	30	6L6	D	3	—	7	TC	30
6CD6	D	2	—	7	5	30	6L7	D	3	—	7	5	30
6CE5	D	3	2	4	1	30	6M8	D	3	—	7	5	100
6CF6	D	3	—	4	1	30		D	3	—	7	TC	35
6CG6	D	3	—	4	1	30	6N4	D	3	6,7	4	1	30
6CG7	D	4	—	5	2	30	6N7	D	3	—	7	3	30
	D	4	—	5	7	30		D	4	—	5	3	30
6CG8	D	4	8	5	1	30	6N8	D	4	—	5	7	100
	D	4	8	5	9	30		D	4	—	5	8	100

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
6P5	D	2	—	7	5	35	6ZY5	D	2	—	7	5	30
6Q7	D	2	—	7	4	100		D	2	—	7	5	30
	D	2	—	7	5	100							
	D	2	—	7	5	100							
6R8	D	4	—	7	1	35	7A4	D	1	—	—	6	35
	D	4	—	7	1	35	7A6	D	1	—	—	6	35
	D	4	—	7	2	6							
	D	4	—	7	2	6	7A7	D	1	—	—	6	35
6S4	D	4	—	7	6	35	7A8	D	1	—	—	6	35
6S6	D	2	1,3,7,8	7	6	35	7AD7	D	1	—	—	6	35
					TC		7AF7	D	1	—	—	6	35
6S7	D	2	—	7	TC	35	7AG7	D	1	—	—	6	35
6S8	D	2	—	7	1	100	7AH7	D	1	5	—	6	35
	D	2	—	7	3	100							
	D	2	—	7	4	100	7AK7	D	1	—	—	6	35
	D	2	—	7	4	100	7AU7	D	1	—	—	6	35
6SA7	D	2	—	7	TC	35							
6SB7Y	D	2	—	7	5	35	7B4	D	4	9,9	—	6	35
6SC7	D	2	—	7	3	40	7B5	D	4	—	—	6	35
	D	2	—	7	4	40	7B6	D	4	—	—	6	35
6SD7	D	2	—	7	4	30							
6SF5	D	7	—	—	3	35	7B7	D	1	—	—	4	100
6SF7	D	7	—	—	3	30	7B8	D	1	—	—	4	100
	D	7	—	—	3	100							
6SG7	D	2	—	—	4	30	7C5	D	1	—	—	6	30
6SJ7	D	2	—	—	4	30	7C6	D	1	4	—	6	35
6SK7	D	2	—	—	4	30							
6SL7	D	2	—	—	4	30	7C7	D	1	4	—	6	100
6SN7	D	7	—	—	4	30	7E5	D	2	3,4,5	—	1	35
	D	7	—	—	4	30	7E6	D	1	—	—	1	35
6SQ7	D	7	—	—	2	30							
	D	7	—	—	2	100	7E7	D	1	—	—	3	100
	D	7	—	—	2	100							
6SR7	D	7	—	—	2	30							
	D	7	—	—	2	100	7F7	D	1	—	—	4	35
	D	7	—	—	2	100							
6SS7	D	2	—	—	5	30	7F8	D	2	—	—	1	35
6ST7	D	2	—	—	5	30							
	D	2	—	—	5	100	7G7	D	2	—	—	6	35
6SU7	D	7	—	—	1	30	7H7	D	1	—	—	6	35
	D	7	—	—	1	30							
6SV7	D	7	—	—	4	30	7J7	D	1	—	—	6	35
	D	7	—	—	4	100							
6T4	D	3	6,7	4	TC	35	7K7	D	1	—	—	4	100
6T6	D	2	—	—	2	35							
6T8	D	4	—	—	1	100	7L7	D	1	—	—	6	100
	D	4	—	—	1	100	7N7	D	1	—	—	4	35
	D	4	—	—	8	100							
	D	4	—	—	8	30	7Q7	D	1	—	—	4	35
6U4	D	7	—	8	5	30	7R7	D	1	—	—	3	100
6U6	D	2	—	7	TC	30							
6U7	D	4	—	—	7	30	7S7	D	1	—	—	6	35
6U8	D	4	—	—	7	30							
	D	4	—	—	7	30	7V7	D	1	—	—	6	35
6V3	D	2	7,9	7	TC	30	7W7	D	1	7	—	6	35
6V6	D	2	—	7	7	100	7X6	D	1	—	—	6	30
6V8	D	4	—	—	6	35							
	D	4	—	—	9	100	7X7	D	1	—	—	6	35
	D	4	—	—	9	100							
6W4	D	7	—	8	5	30	7Y4	D	1	—	—	6	100
6W6	D	2	—	7	5	30							
6X4	D	3	—	4	6	30	7Z4	D	1	—	—	6	45
	D	3	—	4	6	30							
6X5	D	7	—	7	3	30							
	D	7	—	7	3	30							
6X6	D	2	—	7	4	30							
6X8	D	4	—	7	2	30	12A4	F	4	3,7	5	2	35
	D	4	—	7	2	30	12A8	F	2	—	5	2	35
6Y6	D	2	—	7	5	30	12AB5	F	4	1,3	5	6	30

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
12AD7	F	4	9	5	2	30	12CX6	F	3	—	4	1	30
12AF6	F	4	—	5	7	30	12D4	F	4	—	4	5	30
12AH7	F	3	—	4	1	60	12DQ6	F	4	—	5	5	30
12AL5	F	3	—	8	5	35	12EM6	F	4	—	5	1	30
12AQ5	F	3	—	4	2	40	12EN6	F	4	—	7	5	100
12AT6	F	3	7	4	7	40	12G4	F	2	5	4	5	30
	F	3	—	4	1	30	12H4	F	2	5	4	5	30
	F	3	—	4	4	35	12H6	F	2	—	7	5	30
	F	3	—	4	5	100							
	F	3	—	4	6	100							
12AT7	F	4	9	5	2	35	12J5	F	2	—	7	5	35
12AU6	F	4	9	5	7	35	12J7	F	2	—	7	5	30
12AU7	F	3	9	4	2	35	12K5	F	2	5	7	5	30
12AV5	F	2	9	5	7	35	12K7	F	2	—	7	5	30
12AV6	F	3	—	4	1	35	12K8	F	2	—	7	5	30
	F	3	—	4	4	35	12L6	F	2	—	7	4	100
	F	3	—	4	5	100	12Q7	F	2	—	7	4	100
	F	3	—	4	6	100							
12AV7	F	4	9	5	2	35	12S8	F	7	—	8	3	100
12AW6	F	4	9	5	7	35							
12AX4	F	3	—	4	5	35	12SA7	F	2	—	8	5	100
12AX7	F	4	9	5	2	35	12SC7	F	2	—	8	5	100
12AY7	F	4	9	5	7	35	12SF5	F	2	—	8	3	30
12AZ7	F	4	9	5	2	35	12SF7	F	2	—	8	3	100
	F	4	9	5	7	35							
	F	4	9	5	2	35							
12B4	F	4	3.7	5	2	35	12SG7	F	2	3	7	4	35
12B7	F	1	—	8	6	35	12SH7	F	2	3	7	4	30
12BA6	F	3	—	4	1	35	12SJ7	F	2	—	7	4	30
12BA7	F	4	8	5	2	35	12SK7	F	2	—	8	1	30
12BD6	F	4	—	4	1	35	12SL7	F	2	—	8	4	30
12BE6	F	3	—	4	1	35	12SN7	F	2	—	8	4	30
12BF6	F	3	—	4	1	60	12SQ7	F	2	—	8	2	100
	F	3	—	4	4	100							
	F	3	—	4	5	100							
12BH7	F	4	9	5	2	30	12SR7	F	7	—	8	2	35
12BK5	F	4	7	5	3	30							
12BK6	F	3	—	4	1	30	12V6	F	2	—	8	4	100
	F	3	—	4	5	35	12W6	F	2	—	8	5	30
	F	3	—	4	6	100	12X4	F	2	—	7	1	30
12BN6	F	3	—	4	5	100							
12BQ6	F	2	—	7	5	30							
12BR7	F	4	9	5	2	30							
	F	4	9	5	7	100							
	F	4	9	5	2	100							
12BT6	F	3	—	4	1	35	14A7	F	1	—	8	6	30
	F	3	—	4	5	100	14AF7	F	1	—	8	5	35
	F	3	—	4	6	100							
12BU6	F	4	—	4	1	35	14F8	F	2	—	7	8	35
	F	4	—	4	5	100							
	F	4	—	4	6	100	14H7	F	2	—	8	6	35
	F	4	—	4	7	100	14Q7	F	1	—	8	4	35
12BV7	F	4	3.6	5	2	30							
12BY7	F	4	6.6	5	2	30	15A8	F	2	—	7	3	30
12BZ7	F	4	9	5	2	30							
	F	4	9	5	7	30							
12C5	F	4	2	5	5	30	19AU4	F	7	—	8	5	30
	F	4	2	5	7	35	19BG6	F	2	—	7	5	30
12C8	F	2	—	7	4	100	19C8	F	2	—	5	2	100
	F	2	—	7	5	100							
	F	2	—	7	6	35							
12CA5	F	2	—	7	7	30							
12CM6	F	4	5	5	2	30	19J6	F	4	—	5	8	35
12CN5	F	4	5	4	2	30							
12CR6	F	4	5	4	2	40							
	F	4	5	4	2	100	19T8	F	4	—	5	1	100
12CS6	F	4	5	4	1	60							
12CU5	F	2	5	4	2	30							
12CU6	F	2	7	4	2	25							





Tube	Fil.	F	N	C	E	Load
1S2	A	1	4.5.6 8.9	2	TC	100
6AM5	D	3	—	4	1	60
6AM6	D	3	—	4	1	35
6BL8	D	4	—	5	2	30
	D	4	—	5	9	30
6BM8	D	4	—	5	3	30
	D	4	—	5	1	30
6BW6	D	4	—	5	1	30
6BW7	D	4	—	5	2	30
6BY7	D	4	—	5	2	30
6CK6	D	3	—	4	2	30
6CM5	D	2	—	7	5	30
6CW5	D	4	—	5	2	30
6CW7	D	4	—	5	2	30
	D	4	—	5	6	30
6DA6	D	4	—	5	2	35
	D	4	—	5	2	30
6DC8	D	4	—	5	7	100
	D	4	—	5	8	100
	D	4	—	5	8	100
6EH7	D	4	—	5	2	30
6EJ7	D	4	—	5	2	30
6R3	D	4	—	5	2.9	30
6U4	D	7	—	8	5	30
7AN7	D	4	—	5	2	30
	D	4	—	5	6	30
9A8	D	4	—	5	2	30
	D	4	—	5	9	30
9AK8	D	4	—	5	8	35
	D	4	—	5	2	100
	D	4	—	5	6	100
15A6	E	4	—	5	2	30
15CW5	E	4	—	5	2	30
15DQ8	E	4	—	5	1	30
	E	4	—	5	8	30
16A5	E	4	—	5	2	30
16A8	E	4	—	5	3	30
	E	4	—	5	1	30
17Z3	E	4	—	5	2.9	30
21A6	F	4	—	5	2	30
25E5	F	2	—	7	5	30

Tube	Fil.	F	N	C	E	Load
19Y3	F	4	—	5	9	30
7DJ8	D	4	—	5	2	30
	D	4	—	5	7	30
30A5	F	3	—	4	2	35

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