

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	2	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	2	—	7	5	30	B	2	8	7	5	40	
1G4	A	2	—	7	5	30	*4BC8	B	4	—	5	2	35
1G6	A	2	—	7	4	30	B	4	—	5	7	35	
	A	2	—	7	5	30	*4BQ7	B	4	—	5	2	30
							B	4	—	5	7	30	
1H5	A	2	—	7	5	100	4BS8	C	4	—	5	2	30
	A	2	—	7	TC	40	C	4	—	5	7	30	
1L4	A	7	5	1	6	65	4BU8	C	4	—	5	7	30
1L6	A	1	—	7	4	65	4BZ6	C	3	—	4	1	25
1LA6	A	1	—	8	4	60							
1LB4	A	1	—	8	6	60	*4BZ7	B	4	—	5	2	30
1LB6	A	1	—	8	6	60	B	4	—	5	7	30	
1LCS	A	1	5	8	6	60	C	4	—	5	2	30	
1LC5	A	1	—	8	4	60	C	4	—	5	7	30	
							4CX7	C	4	9	5	2	30
1LD5	A	1	—	8	4	100	C	4	9	5	7	30	
	A	1	—	8	6	60	4CY5	C	3	—	4	1	30
1LG5	A	1	5	8	6	60	4DT6	C	3	—	4	1	30
1LH4	A	1	—	8	4	100							
	A	1	—	8	6	60	5A6	C	4	3,9	5	7	30
1LN5	A	1	5	8	6	60	5AM8	C	4	—	5	2	30
1N5	A	2	—	7	TC	60	C	4	—	5	8	30	
1R5	A	7	5	1	4	60	5AN8	C	4	—	5	2	30
1S4	A	1	5,6	7	3	60	C	4	—	5	8	30	
							C	4	—	5	1	30	
1S5	A	1	—	7	3	100	5AQ5	C	3	7	4	1	35
	A	1	—	7	6	60	5AS4	C	2	—	8	4	40
1T4	A	7	5	1	6	60	C	2	—	8	6	40	
1T5	A	2	—	7	5	60	5AT8	C	4	—	5	1	30
1U4	A	7	5	1	6	60	C	4	—	5	9	30	
1U5	A	1	—	7	6	60							
	A	1	—	7	4	100	*5AU4	C	2	—	8	4	20
1U6	A	1	—	7	4	60	C	2	—	8	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	C	4	—	5	6	30	
							C	2	—	8	4	30	
2AF4	B	3	6,7	4	2	30	*5AW4	C	2	—	8	6	30
2B3	A	2	1,8	7	TC	100	C	2	—	8	4	30	
2BN4	B	3	6,7	4	2	30	*5AZ4	C	2	—	8	6	30
2V2	B	2	4,5,6,8	7	TC	100	C	2	—	8	6	30	
							5B8	C	4	—	5	2	30
							C	4	—	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	C	4	—	5	9	30	
3A5	B	1	4	7	3	60	5BK7	C	4	—	5	2	35
	B	1	4	7	5	60	C	4	—	5	7	35	
3AL5	B	3	—	4	2	40	5BR8	C	4	—	5	1	60
	B	3	—	4	7	40	C	4	—	5	9	30	
3AU6	B	3	—	4	1	35	5BT8	C	4	—	5	1	100
3AV6	B	3	—	4	1	30	C	4	—	5	2	100	
	B	3	—	4	5	100	C	4	—	5	8	30	
	B	3	—	4	6	100	5CG8	C	4	—	5	1	30
							C	4	8	5	9	30	
3B2	B	2	1,3,5,6,8	7	TC	100							
3BC5	B	3	2	4	1	30	5J6	C	3	—	4	5	35
3BE6	B	3	—	4	1	30	C	3	—	4	6	35	
3BN4	B	3	6,7	4	2	30	5R4	C	2	—	8	4	30
3BN6	B	3	—	4	5	100	C	2	—	8	6	30	
3BU8	D	4	—	5	7	30	5T4	C	2	—	8	4	30
3BY6	B	3	—	4	1	35	C	2	—	8	6	30	
3BZ6	B	3	—	4	1	35	5T8	C	4	—	5	1	100
3CB6	B	3	—	4	1	30	C	4	—	5	2	100	
							C	4	—	5	6	100	
							C	4	—	5	8	30	
3CF6	B	3	—	4	1	30							
3CS6	B	3	—	4	1	30	*5U4	C	2	—	8	4	20
3DT6	B	3	—	4	1	60	C	2	—	8	6	20	
3E5	B	1	5	7	6	60	5U8	C	4	—	5	2	30
3E6	B	1	5	7	6	60	C	4	—	5	9	30	
3LF4	B	1	7	8	6	40	*5V3	C	2	—	8	4	20
3Q4	B	1	2,5	7	3	35	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
5V6	C	2	—	7	5	30	6AS8	D	4	—	5	2	30
5W4	C	2	—	8	4	30		D	4	—	5	6	30
	C	2	—	8	6	30	6AT6	D	3	—	4	1	30
5X4	C	7	—	8	3	20		D	3	—	4	5	100
	C	7	—	8	5	20		D	3	—	4	6	100
5X8	C	4	—	5	2	35	6AT8	D	4	—	5	1	35
	C	4	—	5	7	35		D	4	—	5	9	35
5Y3	C	2	—	8	4	30	6AU4	D	7	—	8	5	30
	C	2	—	8	6	30	6AU5	D	2	—	7	1	30
5Y4	C	7	—	8	3	30	6AU6	D	3	—	4	1	30
	C	7	—	8	5	30	6AU7	D	4	9	5	2	30
5Z4	C	2	—	8	4	30		D	4	9	5	7	30
	C	2	—	8	6	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	6AV6	D	3	—	4	1	60
6AB7	D	2	—	7	4	30		D	3	—	4	5	100
6AB8	D	4	—	5	2	30		D	3	—	4	6	100
	D	4	—	5	9	30	6AW8	D	4	—	5	2	30
6AC5	D	2	—	7	5	35		D	4	—	5	7	30
6AC7	D	2	—	7	4	30	6AX4	D	7	—	8	5	30
6AD7	D	2	—	7	1	30	6AX5	D	2	—	7	3	30
	D	2	—	7	5	30		D	2	—	7	5	30
6AF4	D	3	1,2	4	6	60	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	6B7	D	2	—	7	5	100
6AH6	D	3	—	4	1	30		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	4	100
6AJ4	D	7	3,4,6,9	8	1	30		D	2	—	7	5	100
6AJ5	D	3	7	4	1	30		D	2	—	7	TC	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	6BF6	D	3	—	4	1	35
	D	7	—	8	3	100		D	3	—	4	5	100
	D	7	—	8	4	30		D	3	—	4	6	100
6AR5	D	3	—	4	1	60	6BG6	D	2	—	7	5	30
6AR6	D	6	—	8	7	30	6BH6	D	3	—	4	1	30
6AR8	D	4	—	5	6	30	6BH8	D	4	—	5	2	30
6AS5	D	3	2	4	5	60		D	4	—	5	7	30
6AS6	D	3	—	4	1	30	6BJ6	D	3	—	4	1	60

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
6BJ7	D	4	—	5	2	100	6CH7	D	4	9	5	2	30
	D	4	—	5	6	100		D	4	9	5	7	30
	D	4	—	5	8	100	6CH8	D	5	—	4	7	30
6BJ8	D	4	—	5	8	35		D	5	—	4	8	30
	D	4	—	5	1	100	6CJ6	D	4	1,6,7	5	2	30
	D	4	—	5	6	100	6CL5	D	2	1,3,4	7	5	30
6BK5	D	4	7	5	3	30	6CL6	D	4	8,9	5	2	30
6BK6	D	3	—	4	1	30	6CM6	D	4	6	5	3	30
	D	3	—	4	5	100	6CM7	D	4	—	5	7	30
	D	3	—	4	6	100		D	4	—	5	8	30
6BK7	D	4	—	5	2	30	6CN7	D	4	9	5	7	35
	D	4	—	5	7	30		D	4	9	5	1	100
6BL7	D	7	—	8	1	30		D	4	9	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	9	30
6BN6	D	3	—	4	5	100	6CR6	D	3	—	4	2	100
6BN8	D	4	—	5	1	100		D	3	—	4	7	35
	D	4	—	5	6	100	6CS6	D	3	—	4	1	30
	D	4	—	5	8	30	6CS7	D	4	—	5	3	30
6BQ5	D	4	1,6,8	3	2	30		D	4	—	5	7	30
6BQ6	D	2	—	7	5	30	6CU5	D	3	5	4	2	30
6BQ7	D	4	—	5	2	30	6CU6	D	2	—	7	5	30
	D	4	—	5	7	30	6CU8	D	4	—	5	7	30
6BR7	D	4	1	5	2	30		D	4	—	5	8	30
6BR8	D	4	—	5	1	60	6CX7	D	4	9	5	2	30
	D	4	—	5	9	30		D	4	9	5	7	30
6BS8	D	4	—	5	2	30	6CY5	D	3	7	4	1	30
	D	4	—	5	7	30	6CZ5	D	4	6	5	3	40
6BT6	D	3	—	4	1	30	6D4	D	3	—	4	1	30
	D	3	—	4	5	100	6D8	D	2	—	7	5	30
	U	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	2	—	7	5	30
6BU5	D	7	6	8	4	30	6DK6	D	3	—	4	1	30
6BU6	D	3	—	4	1	30	6DQ5	D	2	4,5,6	7	1	35
	D	3	—	4	5	100	6DQ6	D	2	—	7	5	30
	D	3	—	4	6	100	6DS5	D	3	7	4	1	30
6BU8	D	4	—	5	7	30	6DT6	D	3	—	4	1	30
6BW4	D	4	—	5	1	30	6F5	D	2	—	7	TC	35
	D	4	—	5	7	30	6F6	D	2	—	7	5	30
6BX6	D	4	1	5	2	30	6F8	D	2	—	7	5	30
6BX7	D	7	—	8	1	30		D	2	—	7	TC	30
	D	7	—	8	4	30	6G6	D	2	—	7	5	30
6BY5	D	2	—	7	4	30	6G7	D	2	—	7	TC	30
	D	2	—	7	5	30	6H6	D	2	—	7	3	30
6BY6	D	3	—	4	1	35		D	2	—	7	5	30
6BZ6	D	3	—	4	1	30							
6BZ7	D	4	—	5	2	35	6H7	D	2	—	7	5	60
	D	4	—	5	7	35		D	2	—	7	TC	35
6BZ8	D	4	—	5	2	40	6J4	D	3	5,6	4	1	35
	D	4	—	5	7	40	6J5	D	2	—	7	5	30
6C4	D	3	2,5	4	6	35	6J6	D	3	—	4	5	35
6C5	D	2	—	7	5	35		D	3	—	4	6	35
6C8	D	2	—	7	5	30	6J7	D	2	—	7	TC	30
	D	2	—	7	TC	30	6J8	D	2	—	7	5	65
6CA4	D	4	—	5	1	30		D	2	—	7	TC	40
	D	4	—	5	7	30							
6CA5	D	3	5	4	2	30	6K6	D	2	—	7	5	30
6CA7	D	2	—	7	5	30	6K7	D	2	—	7	TC	30
6CB5	D	2	1,5,6	7	4	30	6K8	D	2	—	7	5	35
6CB6	D	3	—	4	1	30	6L5	D	2	—	7	5	35
6CD6	D	2	—	7	5	30	6L6	D	2	—	7	5	30
6CE5	D	3	2	4	1	30	6L7	D	2	—	7	TC	35
6CF6	D	3	—	4	1	30	6M8	D	2	—	7	5	35
6CG6	D	3	—	4	1	30		D	2	—	7	8	100
6CG7	D	4	—	5	2	30		D	2	—	7	TC	35
	D	4	—	5	7	30							
6CG8	D	4	8	5	1	30	6N4	D	3	6,7	4	1	30
	D	4	8	5	9	30	6N7	D	2	—	7	4	30
								D	2	—	7	5	30
							6N8	D	4	—	5	2	30
								D	4	—	5	7	100
								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	3	30
6Q7	D	2	—	7	4	100		D	2	—	7	5	30
	D	2	—	7	5	100							
	D	2	—	7	TC	35							
6R8	D	4	—	5	1	65	7A4	D	1	—	8	6	35
	D	4	—	5	2	65	7A6	D	1	—	8	3	35
	D	4	—	5	6	65		D	1	—	8	6	35
	D	4	—	5	8	35	7A7	D	1	—	8	6	35
6S4	D	4	1,3,7,8	5	6	30	7A8	D	1	—	8	4	35
6S6	D	2	—	7	TC	35	7AD7	D	1	—	8	6	30
							7AF7	D	1	—	8	4	30
6S7	D	2	—	7	TC	35		D	1	—	8	5	30
6S8	D	7	—	8	1	100	7AG7	D	1	5	8	6	30
	D	7	—	8	3	100	7AH7	D	1	—	8	6	35
	D	7	—	8	4	100							
	D	7	—	8	TC	35	7AK7	D	1	—	8	6	35
6SA7	D	2	—	7	5	35	7AU7	D	4	9	5	2	30
6SB7Y	D	2	—	7	5	35		D	4	9	5	7	30
6SC7	D	7	—	8	3	40	7B4	D	1	—	8	6	35
	D	7	—	8	4	40	7B5	D	1	—	8	6	30
6SD7	D	2	—	7	4	30	7B6	D	1	—	8	3	35
								D	1	—	8	5	100
6SF5	D	7	—	8	3	35		D	1	—	8	6	100
6SF7	D	7	—	8	2	30	7B7	D	1	—	8	6	35
	D	7	—	8	5	100	7B8	D	1	—	8	4	35
6SG7	D	2	—	7	4	30							
6SJ7	D	2	—	7	4	30	7C5	D	1	—	8	6	30
6SK7	D	2	—	7	4	30	7C6	D	1	4	8	3	35
6SL7	D	7	—	8	1	30		D	1	4	8	5	100
	D	7	—	8	4	30		D	1	4	8	6	100
6SN7	D	7	—	8	1	30	7C7	D	1	—	8	6	35
	D	7	—	8	4	30	7E5	D	2	3,4,5	8	1	30
							7E6	D	1	4	8	3	35
6SQ7	D	7	—	8	2	30		D	1	4	8	5	100
	D	7	—	8	4	100		D	1	4	8	6	100
	D	7	—	8	5	100							
6SR7	D	7	—	8	2	30	7E7	D	1	—	8	3	100
	D	7	—	8	4	100		D	1	—	8	4	100
	D	7	—	8	5	100		D	1	—	8	6	35
6SS7	D	2	—	7	4	30	7F7	D	1	—	8	4	30
6ST7	D	7	—	8	2	30		D	1	—	8	5	30
	D	7	—	8	4	100	7F8	D	2	—	7	1	35
	D	7	—	8	5	100		D	2	—	7	8	35
6SU7	D	7	—	8	1	30	7G7	D	1	—	8	6	30
	D	7	—	8	4	30	7H7	D	1	—	8	6	35
6SV7	D	7	—	8	2	30							
	D	7	—	8	5	100	7J7	D	1	—	8	4	35
6T4	D	3	6,7	4	2	35		D	1	—	8	6	35
6T6	D	2	—	7	TC	35	7K7	D	1	—	8	4	35
6T8	D	4	—	5	1	100		D	1	—	8	5	100
	D	4	—	5	2	100		D	1	—	8	6	100
	D	4	—	5	6	100	7L7	D	1	—	8	6	35
	D	4	—	5	8	30	7N7	D	1	—	8	4	30
								D	1	—	8	5	30
6U4	D	7	—	8	5	30	7Q7	D	1	—	8	4	35
6U6	D	2	—	7	5	30							
6U7	D	2	—	7	TC	30	7R7	D	1	—	8	3	100
6U8	D	4	—	5	2	30		D	1	—	8	4	100
	D	4	—	5	9	30		D	1	—	8	6	35
6V3	D	4	7,9	5	2	30	7S7	D	1	—	8	4	35
6V6	D	2	—	7	5	30		D	1	—	8	6	35
6V8	D	4	—	5	2	100	7V7	D	1	—	8	6	35
	D	4	—	5	6	35	7W7	D	1	7	8	6	35
	D	4	—	5	7	100	7X6	D	1	—	8	3	30
	D	4	—	5	9	100		D	1	—	8	6	30
6W4	D	7	—	8	5	30	7X7	D	1	—	8	3	35
6W6	D	2	—	7	5	30		D	1	—	8	5	100
6X4	D	3	—	4	1	30		D	1	—	8	6	100
	D	3	—	4	6	30	7Y4	D	1	—	8	3	30
6X5	D	2	—	7	3	30		D	1	—	8	6	30
	D	2	—	7	5	30	7Z4	D	1	—	8	3	45
6X6	D	2	—	7	4	30		D	1	—	8	6	45
6X8	D	4	—	5	2	35							
	D	4	—	5	7	35	12A4	E	4	3,7	5	2	35
6Y6	D	2	—	7	5	30	12A8	E	2	—	7	5	35
							12AB5	E	4	1,3	5	6	30

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
12AD7	E	4	9	5	2	30	12CX6	E	3	—	4	1	30
	E	4	9	5	7	30	12D4	E	7	—	8	5	30
12AF6	E	3	—	4	1	60	12DQ6	E	2	—	7	5	30
12AH7	E	7	—	8	1	35	12EM6	E	4	—	5	1	30
	E	7	—	8	5	35		E	4	—	5	9	100
12AL5	E	3	—	4	2	40	12EN6	E	2	—	7	5	30
	E	3	—	4	7	40	12G4	E	3	2.5	4	6	35
12AQ5	E	3	7	4	1	30	12H4	E	3	2	4	6	35
12AT6	E	3	—	4	1	35	12H6	E	2	—	7	3	35
	E	3	—	4	5	100		E	2	—	7	5	35
	E	3	—	4	6	100							
12AT7	E	4	9	5	2	35	12J5	E	2	—	7	5	35
	E	4	9	5	7	35	12J7	E	2	—	7	TC	35
12AU6	E	3	—	4	1	35	12K5	E	3	5	4	6	30
12AU7	E	4	9	5	2	35	12K7	E	2	—	7	TC	35
	E	4	9	5	7	35	12K8	E	2	—	7	5	35
12AV5	E	2	—	7	1	30	12L6	E	2	—	7	5	30
12AV6	E	3	—	4	1	35	12Q7	E	2	—	7	4	100
	E	3	—	4	5	100		E	2	—	7	5	100
	E	3	—	4	6	100		E	2	—	7	TC	35
12AV7	E	4	9	5	2	35	12S8	E	7	—	8	3	100
	E	4	9	5	7	35		E	7	—	8	4	100
12AW6	E	3	—	4	1	35		E	7	—	8	5	100
12AX4	E	7	—	8	5	35	12SA7	E	2	—	7	5	35
12AX7	E	4	9	5	2	35	12SC7	E	7	—	8	3	35
	E	4	9	5	7	35		E	7	—	8	4	35
12AY7	E	4	9	5	2	35	12SF5	E	7	—	8	3	35
	E	4	9	5	7	35	12SF7	E	7	—	8	2	35
12AZ7	E	4	9	5	2	35		E	7	—	8	5	100
	E	4	9	5	7	35							
12B4	E	4	3.7	5	2	35	12SG7	E	2	3	7	4	35
12B7	E	1	—	8	6	35	12SH7	E	2	3	7	4	35
12BA6	E	3	—	4	1	35	12SJ7	E	2	—	7	4	35
12BA7	E	4	8	5	2	35	12SK7	E	2	—	7	4	35
12BD6	E	3	—	4	1	35	12SL7	E	7	—	8	1	30
12BE6	E	3	—	4	1	35		E	7	—	8	4	30
12BF6	E	3	—	4	1	60	12SN7	E	7	—	8	1	30
	E	3	—	4	5	100		E	7	—	8	4	30
	E	3	—	4	6	100	12SQ7	E	7	—	8	2	35
								E	7	—	8	4	100
								E	7	—	8	5	100
12BH7	E	4	9	5	2	30							
	E	4	9	5	7	30	12SR7	E	7	—	8	2	35
12BK5	E	4	7	5	3	30		E	7	—	8	4	100
12BK6	E	3	—	4	1	35		E	7	—	8	5	100
	E	3	—	4	5	100	12V6	E	2	—	7	5	30
	E	3	—	4	6	100	12W6	E	2	—	7	5	30
12BN6	E	3	—	4	5	100	12X4	E	3	—	4	1	30
12BQ6	E	2	—	7	5	30		E	3	—	4	6	30
12BR7	E	4	9	5	2	30							
	E	4	9	5	6	100	14A7	E	1	—	8	6	30
	E	4	9	5	7	100	14AF7	E	1	—	8	4	35
12BT6	E	3	—	4	1	35		E	1	—	8	5	35
	E	3	—	4	5	100	14F8	E	2	—	7	1	35
	E	3	—	4	6	100		E	2	—	7	8	35
12BU6	E	3	—	4	1	35	14H7	E	1	—	8	6	35
	E	3	—	4	5	100	14Q7	E	1	—	8	4	35
	E	3	—	4	6	100							
12BV7	E	4	3.6	5	2	30							
12BY7	E	4	6.9	5	2	30	15A8	E	2	—	7	3	30
12BZ7	E	4	9	5	2	30		E	2	—	7	4	30
	E	4	9	5	7	30							
12C5	E	3	2	4	5	35	19AU4	F	7	—	8	5	30
							19BG6	F	2	—	7	5	30
12C8	E	2	—	7	4	100	19C8	F	4	—	5	1	100
	E	2	—	7	5	100		F	4	—	5	2	100
	E	2	—	7	TC	35		F	4	—	5	6	100
12CA5	E	3	5	4	2	30		F	4	—	5	8	35
12CM6	E	4	5	5	3	30	19J6	F	3	—	4	5	35
12CN5	E	3	5	4	2	30		F	3	—	4	6	35
12CR6	E	3	—	4	7	40							
	E	3	—	4	2	100	19T8	F	4	—	5	1	100
12CS6	E	3	—	4	1	60		F	4	—	5	2	100
12CU5	E	3	5	4	2	30		F	4	—	5	6	100
12CU6	E	2	—	7	5	25		F	4	—	5	8	35

Tube	Fil.	F	N	C	E	Load
19V8	F	4	—	5	2	100
	F	4	—	5	6	35
	F	4	—	5	7	100
	F	4	—	5	9	100
19X8	F	4	—	5	2	35
	F	4	—	5	7	35
25AC5	F	2	—	7	5	30
25AV5	F	2	—	7	1	30
25AX4	F	7	—	8	5	30
25BK5	F	4	7	5	3	30
25BQ6	F	2	—	7	5	30
25C5	F	3	2	4	5	30
25C6	F	2	—	7	5	30
25CA5	F	3	5	4	2	30
25CD6	F	2	—	7	5	30
25CU6	F	2	—	7	5	30
25L6	F	2	—	7	5	30
25W4	F	7	—	8	5	30
25W6	F	2	—	7	5	30
EL34	D	2	—	7	5	30
GZ34	C	2	—	8	4	30
	C	2	—	8	6	30
*35A5	F	1	—	8	6	35
*35B5	F	3	7	4	1	35
*35C5	F	3	2	4	5	35
*35L6	F	2	—	7	5	30
*35W4	F	3	6	4	5	35
*35Y4	F	1	4	8	2	35
*35Z3	F	1	4	8	2	35
*35Z4	F	2	—	7	5	30
*35Z5	F	2	3	7	5	30
EL37	D	2	—	7	5	30
*50A5	F	1	—	8	6	40
*50B5	F	3	7	4	1	50
*50C5	F	3	2	4	5	50
*50C6	F	2	—	7	5	50
*50L6	F	2	—	7	5	40
*50X6	F	1	—	8	3	50
	F	1	—	8	6	50
*50Y6	F	2	—	7	3	50
	F	2	—	7	5	50
*50Y7	F	2	6	7	3	50
	F	2	6	7	5	50
*50Z6	F	2	—	7	3	50
	F	2	—	7	5	50
EZ80	D	4	—	5	1	35
	D	4	—	5	7	35
ECC81	E	4	9	5	2	35
	E	4	9	5	7	35
EZ81	D	4	—	5	1	30
	D	4	—	5	7	30
ECC82	E	4	9	5	2	35
	E	4	9	5	7	35
ECC83	E	4	9	5	2	35
	E	4	9	5	7	35
EL84	D	4	1,6,8	5	2	30
EF86	D	4	—	5	9	35
117L7	G	2	—	7	4	30
	G	2	—	7	6	30
117M7	G	2	—	7	4	30
	G	2	—	7	6	30
117N7	G	2	—	7	4	30
	G	2	—	7	8	30

Meter Reverses

Tube	Fil.	F	N	C	E	Load
117P7	G	2	—	7	4	30
	G	2	—	7	8	30
			Meter Reverses			
117Z3	G	3	1	4	5	30
117Z4	G	2	—	7	5	30
117Z6	G	2	—	7	3	30
	G	2	—	7	5	30
2729	D	4	—	5	9	35
884	D	2	—	7	5	30
1614	D	2	4	7	5	35
1851	D	2	—	7	TC	30
5881	D	2	—	7	5	35
6973	D	4	6	5	3	40

Made and Printed in Japan

Tube	Fil.	F	N	C	E	Load	Tube	Fil.	F	N	C	E	Load
1S2	A	1	4.5.6 8.9	2	TC	100	19Y3	F	4	—	5	9	30
6AM5	D	3	—	4	1	60	7DJ8	D	4	—	5	2	30
6AM6	D	3	—	4	1	35	30A5	D	4	—	5	7	30
6BL8	D	4	—	5	2	30		F	3	—	4	2	35
	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							
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							
	D	4	—	5	8	35							
9AK8	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							
1723	E	4	—	5	2.9	30							
21A6	F	4	—	5	2	30							
25E5	F	2	—	7	5	30							

MADE & PRD. IN JAPAN