

## 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.
- POWER switch in the OFF position.

# MODEL TC-2 TUBE CHART

Filament						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
KT66	D	2		5	30	7	1C5	A	2		5	30	7	1L4	A	7	5	6	65	7
KT88	D	2		5	30	7	1C7	B	2		5	60	7	1L6	A	1		4	65	7
XXB	B	1	7	4	35	8	1C8	A	4	1	2	60	5	1LA4	A	1		6	60	8
XXB	B	1	7	5	35	8	1D5	B	2		T. C.	60	7	1LA6	A	1		4	60	8
XXD	E	1		4	35	8	1D7	B	2		5	60	7	1LB4	A	1		6	60	8
XXD	E	1		5	35	8	1D8	A	2		4	40	7	1LB6	A	1		6	60	8
XXFM	D	1		3	35	8	1D8	A	2		8	100	7	1LC5	A	1	5	6	60	8
XXFM	D	1		5	100	8	1D8	A	2		T. C.	40	7	1LC6	A	1		4	60	8
XXFM	D	1		6	100	8	1DN5	A	1		6	60	7	1LD5	A	1		4	100	8
XXL	D	1		6	35	8	1DN5	A	1		4	100	7	1LD5	A	1		6	60	8
X-155	D	4		2	40	5	1E3	A	4	3	1(S)	60	5	1LE3	A	1	5	6	60	8
X-155	D	4		7	40	5	1E4	A	2		5	60	7	1LE4	A	1	7	6	60	8
-1A3	A	1	2, 5	6(S)	10	7	1E5	B	2		T. C.	35	7	1LF4	A	1	7	6	60	8
1A5	A	2		5	30	7	1E7	B	2		4	35	7	1LG4	A	1	5	6	60	8
1A7	A	2		5	60	7	1E7	B	2		5	35	7	1LG5	A	8	5	6	80	8
1AB5	A	1	8	3	35	7	1E8	A	4		2	65	5	1LH4	A	1		4	100	8
-1AB6	A	1		4	60	7	1F5	B	2		5	30	7	1LH4	A	1		6	60	8
1AC5	A	4		2	60	5	1F7	B	2		4	100	7	1LN5	A	1	5	6	60	8
-1AC6	A	1		4	60	7	1F7	B	2		5	100	7	-1M3	A	4	2	1(S)	100	5
1AD5	A	4		2	60	5	1F7	B	2		T. C.	40	7	1N5	A	2		T. C.	60	7
1AE4	A	7	4, 5	6	60	7	1G3	A	2	1, 3, 5, 8	T. C.(S)	100	7	1N6	A	2		5	60	7
1AF4	A	7	5	6	60	7	1G4	A	2		5	30	7	1N6	A	2		6	100	7
1AF5	A	1		3	100	7	1G5	B	2		5	30	7	1P5	A	2		T. C.	60	7
1AF5	A	1		6	65	7	1G6	A	2		4	30	7	1Q5	A	2		5	30	7
1AG4	A	3		4	60	5	1G6	A	2		5	30	7	1Q6	A	4		3	60	5
1AG5	A	4		5	60	6	1H2	A	2	1, 4, 5, 6, 8	T. C.(S)	100	9	1Q6	A	4		6	100	5
1AG5	A	4		3	60	6														
-1AH5	A	7	2	3	100	7	1H4	B	2		5	60	7	-1R5	A	7	5	4	60	7
1AH5	A	7	2	6	60	7	1H5	A	2		5	100	7	-1S2	A	1	4, 5, 6, 8, 9	T. C.(S)	100	2
-1AJ4	A	7	4, 5	6	60	7	1H5	A	2		T. C.	40	7							
1AX2	A	1	4, 5, 6, 8, 9	T. C.(S)	100	7	1H6	B	2		4	100	7	1S4	A	1	5, 6	3	40	7
							1H6	B	2		5	100	7	1S5	A	1		3	100	7
1B3	A	2	1, 3, 5, 8	T. C.(S)	100	7	1H6	B	2		6	35	7	-1S5	A	1		6	60	7
1B7	A	2		5	60	7	1J3	A	2		T. C.(S)	60	7	1SA6	A	2		4	60	7
1B8	A	2		5	30	7	1J5	B	2		5	30	7	1SB6	A	2		5	100	7
1B8	A	2		8	100	7	1J6	B	2		4	30	7	1SB6	A	2		8	35	7
1B8	A	2		T. C.	30	7	1J6	B	2		5	30	7	-1T4	A	7	5	6	60	7
1C3	A	1	2	4	60	7	1K3	A	2	1, 3, 5, 8	T. C.(S)	60	7	1T5	A	2		5	60	7

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power

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(\*) *from von der Rohrleitung* Switch MUST be switched DOWN to the "LO" position.  
*Obstrukt: Power Schalter muss auf "Lo" Position zurückgeschaltet werden.*

FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
1T6	A	4		3	60	5	-3A4	B	1	2, 5	4	30	7	3D6	B	1	7	6	40	8
1T6	A	4		6	100	5	-3A5	B	1	4	3	60	7	3DK6	B	3	1		30	4
							-3A5	B	1	4	5	60	7	3DT6	B	3	1		60	4
-1U4	A	7	5	6	60	7	3A8	B	2	1	5	60	7	3E5	B	1	5	6	60	7
1U5	A	1		6	60	7	3A8	B	2	1	8	100	7	3E6	B	1	5	6	60	7
1U5	A	1		4	100	7	3A8	B	2	1	T. C.	60	7	3EA5	B	4	7	1	20	4
							3AF4	B	3	6, 7	2	60	4	3EH7	B	4	1	8	10S	5
1U6	A	1		4	60	7	3AL5	B	3		2	25	4	3ER5	B	4	7	2	15	4
1V2	A	4	1, 2, 3, 6, 7, 8	9(S)	100	5	3AL5	B	3		7	25	4	3ES5	B	3	1	5	50S	4
1V5	A	4		2	65	5	3AU6	B	3		1	30	4	3FH5	B	3	1	2	25	4
1W4	A	1		6	60	7	3AV6	B	3		1	30	4	3LE4	B	1	7	6	40	8
1W5	A	4		2	65	5	3AV6	B	3		5	100	4	3LF4	B	1	7	6	40	8
1X2	A	1	4, 5, 6, 8, 9	T. C.(S)	100	2	3AV6	B	3		6	100	4	3Q4	B	1	2, 5	3	35	7
							3B2	B	2	1, 3, 5, 6, 8	T. C.(S)	100	7	3Q5	B	2	8	5	40	7
1Z2	A	1	2, 3, 4, 5, 6	T. C.(S)	100	7	3B4	B	4	2, 6	3	30	5	-3S4	B	1	2, 5	3	40	7
							3B5	B	2	8	5	40	7	-3V4	B	1	5	6	40	7
2A4G	B	2		3	60	7	3B7	B	1	4	3	60	8	4A6	C	2	8	4	40	7
2AF4	B	3	6, 7	2	30	4	3B7	B	1	4	6	60	8	4A6	C	2	8	5	40	7
2B3	A	2	1, 8	T. C.(S)	100	7	3BA6	B	3		1	30	4	4AU6	C	3	1		30	4
2BN4	B	3	6, 7	2	30	4	3BC5	B	3	2	1	30	4	4AV6	*B	3	1		16	4
2C51	D	1	5	3	30	9	3BE6	B	3		1	30	4	4AV6	*B	3	5		30S	4
2C51	D	1	5	7	30	9	3BN4	B	3	6, 7	2	30	4	4AV6	*B	3	6		30S	4
2CY5	B	3	7	1	30	4	3BN6	B	3		5(S)	100	4	4BA6	C	3	1		30	4
2D21	C	4		1, 6	60	4	3BU6	B	3		1	35	4	4B26	*B	3		6	25S	4
2E30	D	3	7	1	30	4	3BU6	B	3		5	100	4	4BC8	C	3	2	1	30	4
2ER5	*A	4	7	2	10	4	3BU6	B	3		6	100	4	4BC8	C	4		2	30	5
2ES5	*A	3	1	5	50S	4	3BU8	B	4		7	30	5	4BC8	C	4		7	30	5
2FH5	*A	3	1	2	25	4	3BY6	B	3		1	35	4	4BE6	C	3		1	30	4
2FH5	*A	4	7	2	10	4	3BZ6	B	3		1	35	4	4BN6	C	3	5(S)		100	4
2FQ5	*A	4		2	10	4	3C2	B	2	4, 5, 6, 8	T. C.(S)	100	7	4BQ7	C	4		2	30	5
2FS5	*A	4	7	1	12	4	3C4	B	1	5	6	30	7	4BQ7	C	4		7	30	5
2T4	B	3		1	60	4	3C5	B	2	8	5	40	7	4BS8	C	4		2	30	5
2V2	B	2	4, 5, 6, 8	T. C.(S)	100	7	3CB6	B	3		1	30	4	4BS8	C	4		7	30	5
2V3	B	2		T. C.(S)	100	7	3CE5	B	3	2	1	30	4	4BU8	C	4		7	30	5
3A2	B	1	4, 5, 6, 8, 9	T. C.(S)	100	2	3CF6	B	3		1	30	4	4BX8	C	4		2	35	5
							3CS6	B	3		1	30	4	4BX8	C	4		7	35	5
3A3	B	2	1, 3, 5, 8	T. C.(S)	100	7	3CY5	B	3	7	1	30	4	4BZ6	C	3		1	30	4
														4BZ7	C	4		2	30	5

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power

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Switch MUST be switched DOWN to the "LO" position.

FIL.						FIL.						FIL.									
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C	TUBE.	VOLTS.	F.	N.	E.	LOAD.	G.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	
4BZ7	C	4		7	30	5	*5AZ4	C	2		4	30	8	5CQ8	C	4		8	30	5	
4BZ8	C	4		2	30	5	*5AZ4	C	2		6	30	8	5CR8	C	4		2	40	5	
4BZ8	C	4		7	30	5	5B8	C	4		2	30	5	5CR8	C	4		9	40	5	
4CB6	C	3		1	30	4	5B8	C	4		6	30	5	5CZ5	C	4	3, 8	6	30	5	
4CE5	C	3	2	1	30	4	5BC8	C	4		2	35	5	5DH8	C	4		1	30	5	
4CS6	C	3		1	30	4	5BC8	C	4		7	35	5	5DH8	C	4		9	30	5	
4CX7	C	4		9	2	30	5	5BE6	C	3		1	30	4	5EA8	C	4		2	30	5
4CX7	C	4		9	7	30	5	5BE8	C	4		1	30	5	5EA8	C	4		9	30	5
4CY5	C	3	7	1	30	4	5BE8	C	4		9	30	5	5EH8	C	4	6	2	40	5	
4DE6	C	3		1	35	4	5BK5	C	4	7	3	35	5	5EH8	C	4	6	7	40	5	
4DK6	C	3		1	30	4	5BK7	C	4		2	35	5	5ES8 *B	4	8	1	20S	5		
4DT6	C	3		1	60	4	5BK7	C	4		7	35	5	5ES8 *B	4	3	6	20S	5		
4EH7	*B	4		8	10S	5	5BQ7	C	4		2	30	5	*5EW6 *B	3		1	11	4		
4ES8	*B	4	8	2	15	5	5BQ7	C	4		7	30	5	5FV8 *B	4	8	2S	25S	5		
4ES8	*B	4	3	7	15	5	5BR8	C	4		1	60	5	5FV8 *B	4	3	7S	20S	5		
4GS8	*B	4		2S	40S	5	5BR8	C	4		9	30	5	5GH8 *B	4	8	3S	25S	5		
5A6	C	4	3, 9	7	30	5	5BS8	C	4		2	35	5	5GH8 *B	4	7	1S	30S	5		
5AM8	C	4		2	30	5	5BS8	C	4		7	35	5	5GM6 *B	4		6S	22S	4		
5AM8	C	4		8	30	5	5BT8	C	4		1	100	5	5J6	C	3		5	30	4	
5AN8	C	4		2	30	5	5BT8	C	4		2	100	5	5J6	C	3		6	30	4	
5AN8	C	4		8	30	5	5BT8	C	4		8	30	5	*5R4	C	2		4	30	8	
5AQ5	C	3	7	1	35	4	5BW8	C	4		6	40	5	*5R4	C	2		6	30	8	
*5AR4	C	2	1	4	40	8	5BW8	C	4		1	100	5	*5T4	C	2		4	30	8	
*5AR4	C	2	1	6	40	8	5BW8	C	4		3	100	5	*5T4	C	2		6	30	8	
*5AS4	C	2		4	30	8	5BZ7	C	4		2	30	5	5T8	C	4		1	100	5	
*5AS4	C	2		6	30	8	5BZ7	C	4		7	30	5	5T8	C	4		2	100	5	
5AS8	C	4		2	30	5	5CB8	C	4		2	35	5	5T8	C	4		6	100	5	
5AS8	C	4		6	30	5	5CB8	C	4		7	35	5	5T8	C	4		8	30	5	
5AT8	C	4		1	30	5	5CG8	C	4	8	1	30	5	*5U4	C	2		4	25	8	
5AT8	C	4		9	30	5	5CG8	C	4	8	9	30	5	*5U4	C	2		6	25	8	
*5AU4	C	2		4	25	8	5CL8	C	4		1	30	5	5U8	C	4		2	30	5	
*5AU4	C	2		6	25	8	5CL8	C	4		9	30	5	5U8	C	4		9	30	5	
5AV8	C	4		2	30	5	5CL8	C	4	8	1	15	5	*5V3	C	2		4	30	8	
5AV8	C	4		6	30	5	5CL8	C	4	3	7	20	5	*5V3	C	2		6	30	8	
*5AW4	C	2		4	30	8	5CM6	C	4	6	3	30	5	*5V4	C	2		4	30	8	
*5AW4	C	2		6	30	8	5CM8	C	4		2	30	5	*5V4	C	2		6	30	8	
*5AX4	C	2		4	25	8	5CQ8	C	4		9	30	5	5V6	C	2		5	30	7	
*5AX4	C	2		6	25	8	5CQ8	C	4		2	30	5	*5W4	C	2		4	30	8	

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power Switch MUST be switched DOWN to the "LO" position.

FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	G.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
*5W4	C	2		6	30	8	6AF4	D	3	1, 2	6	60	4	6AN6	D	1		2	100	7
*5X4	C	7		3	25	8	6AF5	D	2		5	30	7	6AN6	D	1		3	100	7
*5X4	C	7		5	25	8	6AF6	D	2				7	6AN6	D	1		4	100	7
5X8	C	4		2	35	5	Shadows Open—5 (S) Shadows Close—8 (S) Disregard Meter Reading						6AN6	D	1		5	100	7	
5X8	C	4		7	35	5	6AF7	D	2		3	60	7	6AN7	D	4		2	30	5
*5Y3	C	2		4	30	8	6AF7	D	2		6	60	7	6AN7	D	4		9	30	5
*5Y3	C	2		6	30	8	6AG5	D	3	2	1	30	4	6AN8	D	4		2	30	5
*5Y4	C	7		3	30	8	6AG6	D	7		5	30	8	6AN8	D	4		8	30	5
*5Y4	C	7		5	30	8	6AG7	D	2		4	30	7	6AQ4	D	3	5, 6	1	35	4
*5Z4	C	2		4	30	8	6AH4	D	2		1	30	7	6AQ5	D	3	7	1	30	4
*5Z4	C	2		6	30	8	6AH5	D	2		6	30	7	6AQ6	D	3		1	30	4
6A8	D	2		5	30	7	6AH6	D	3		1	30	4	6AQ6	D	3		5	100	4
6AB4	D	3		6	30	4	6AH7	D	7		1	30	8	6AQ6	D	3		6	100	4
6AB7	D	2		4	30	7	6AH7	D	7		5	30	8	6AQ7	D	7		1	100	8
6AB8	D	4		2	30	5	6AH7	D	7		1	30	8	6AQ7	D	7		3	100	8
6AB8	D	4		9	30	5	6AJ4	D	7	3, 4, 6, 9	1	30	8	6AQ7	D	7		4	30	8
6AC5	D	2		5	30	7	6AJ5	D	3	7	1	30	4	6AQ8	D	4		2	30	5
6AC6	D	2		5	30	7	6AJ7	D	2		4	30	7	6AQ8	D	4	Ecc 85	7	30	5
6AC7	D	2		4	30	7	6AJ8	D	4	ECH 84	2	30	5	6AR5	D	3		1	60	4
6AD4	D	2		1	30	7	6AJ8	D	4		9	30	5	6AR6	D	6		7	30	8
6AD5	D	2		5	30	7	6AK5	D	3	7	1	30	4	6AR6	D	4		6	30	5
6AD6	D	2				7	6AK6	D	3		1	30	4	6AS5	D	3	2	5	60	4
Shadows Open—5 (S) Shadows Close—8 (S) Disregard Meter Reading						6AK7	D	2	3	4	30	7	6AS6	D	3		1		30	4
6AD7	D	2		1	30	7	6AK8	D	4	EABC80	2	100	5	6AS7	D	7		1	30	8
6AD7	D	2		5	30	7	6AK8	D	4		6	100	5	6AS7	D	7		4	30	8
6AD8	D	4		2	35	5	6AK8	D	4		8	30	5	6AS8	D	4		2	30	5
6AD8	D	4		7	100	5	6AL3	C	4	1, 6, 7, 8, 9	3	20	5	6AT6	D	3		1	30	4
6AD8	D	4		8	100	5	6AL5	D	3		2	25	4	6AT6	D	3		5	100	4
6AE5	D	2		5	30	7	6AL5	D	3		7	25	4	6AT6	D	3		6	100	4
6AE6	D	2		5	30	7	6AL6	D	2		5	30	7	6AT8	D	4		1	35	5
6AE7	D	2		4	30	7	6AL7	D	2		1	100	7	6AT8	D	4		9	35	5
6AE7	D	2		6	30	7	6AM4	D	7	3, 4, 6, 9	1	30	8	6AU4	D	7		5	30	8
6AE8	D	4		2	30	5	6AM5	D	3		1	35	4	6AU5	D	2		1	30	7
6AE8	D	4		7	30	5	6AM8	D	4		2	30	5	6AU6	D	3		1	30	4
6AF3	D	4	1, 2, 3, 6, 7, 8	9	30	5	6AM8	D	4		8	100	5	6AU7	D	4	9	2	30	5
							6AN4	D	3	1, 2	6	30	4	6AU7	D	4	9	7	30	5
							6AN5	D	3	2	1	30	4	6AU8	D	4		2	30	5

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power Switch MUST be switched DOWN to the "LO" position.

FIL.					FIL.					FIL.											
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	
6AU8	D	4		7	30	5	6BC7	D	4		8	100	5	6BL4	D	7	1, 2, 4, 6	5	30	8	
6AV4	D	3		1	30	4	6BC8	D	4		2	30	5	6BL7	D	7		1	30	8	
6AV4	D	3		6	30	4	6BC8	D	4		7	30	5	6BL7	D	7		4	30	8	
6AV5	D	2		1	30	7	6BD4	D	2		5(S)	100	7	6BL8	C	4	7	1S	20S	5	
6AV6	D	3		1	30	4	6BD5	D	2		1	30	7	6BL8	C	4	8	3S	70S	5	
6AV6	D	3		5	100	4	6BD6	D	3		1	30	4	6BM5	D	3		7	30	4	
6AV6	D	3		6	100	4	6BD7	D	4		2	30	5	6BM8	D	4	ECL82	1	35	5	
6AW6	D	3		1	35	4	6BD7	D	4		6	100	5	6BM8	D	4		3	35	5	
6AW8	D	4		2	30	5	6BC7	D	4		8	100	5	6BN4	D	3	6, 7	2	30	4	
6AW8	D	4		7	30	5	6BE6	D	3		1	30	4	6BN5	D	4		2	35	5	
6AX4	D	7		5	30	8	6BE7	D	4		7	30	5	6BN6	D	3		5(S)	100	4	
6AX5	D	2		3	30	7	6BE8	D	4		1	30	5	6BN7	D	4		2	30	5	
6AX5	D	2		5	30	7	6BE8	D	4		9	30	5	6BN7	D	4		7	30	5	
6AX6	D	2		3	30	7	6BE8	D	4		7	30	4	6BN8	D	4		1	100	5	
6AX6	D	2		5	30	7	6BF5	D	3		1	30	4	6BN8	D	4		6	100	5	
6AX7	D	4	9	2	30	5	6BF6	D	3		5	100	4	6BN8	D	4		8	30	5	
6AX7	D	4	9	7	30	5	6BF6	D	3		6	100	4	6BN8	D	4		5	30	7	
6AX8	D	4		2	35	5	6BG6	D	2		5	30	7	6BQ5	D	2		5	30	7	
6AX8	D	4		9	35	5	6BH5	D	4		2	30	5	6BQ6	D	2	1, 6, 8	2	35	5	
6AZ8	D	4		6	30	5	6BH6	D	3		1	30	4	6BQ7	D	4		2	30	5	
6AZ8	D	4		9	30	5	6BH8	D	4		2	30	5	6BQ7	D	4		7	30	5	
6B4	D	2		5	30	7	6BH8	D	4		7	30	5	6BR5	D	4		1	30	5	
6B6	D	2		T. C.	30	7	6BJ5	D	3		1	35	4	6BR7	D	4	1	2	30	5	
6B6	D	2		4	100	7	6BJ6	D	3		1	60	4	6BR8	D	4		9	30	5	
6B6	D	2		5	100	7	6BJ7	D	4		2	100	5	6BR8	D	4		7, 8	2	30	5
6B8	D	2		T. C.	30	7	6BJ7	D	4		6	100	5	6BS5	D	4	7, 8	1	2	30	5
6B8	D	2		4	100	7	6BJ7	D	4		8	100	5	6BS7	D	4	1	2	30	5	
6B8	D	2		5	100	7	6BJ8	D	4		1	100	5	6BS8	D	4		2	30	5	
6BA6	D	3		1	30	4	6BJ8	D	4		6	100	5	6BS8	D	4		7	30	5	
6BA7	D	4	8	2	30	5	6BJ8	D	4		8	35	5	6BT6	D	3		1	30	4	
6BA8	D	4		2	30	5	6BK4	D	2	3, 4, 6, 8	5	30	7	6BT6	D	3		5	100	4	
6BA8	D	4		7	30	5	6BK5	D	4	7	3	30	5	6BT6	D	3		6	100	4	
6BC4	D	4	3, 7, 8, 9	2	30	5	6BK6	D	3		1	30	4	6BT8	D	4		1	100	5	
6BC5	D	3		2	30	4	6BK6	D	3		5	100	4	6BT8	D	4		2	100	5	
6BC6	D	3		1	30	4	6BK6	D	3		6	100	4	6BT8	D	4		8	30	5	
6BC7	D	4		2	100	5	6BK6	D	3		6	100	4	6BU5	D	7	6	4	30	8	
6BC7	D	4		6	100	5	6BK7	D	4		2	30	5	6BU6	D	3		1	30	4	
6BC7	D	4		6	100	5	6BK7	D	4		7	30	5	6BU6	D	3		5	100	4	

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FIL.					FIL.					FIL.											
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	
6BU6	D	3		6	100	4	6CA4	C	4		1	20	5	6CN7	D	4	9	2	100	5	
6BU8	D	4		7	30	5	6CA4	C	4		7	20	5	6CN7	D	4	9	7	35	5	
6BV7	D	4	9	1	100	5	6CA4	D	4	2, 6, 8, 9	1	30	5	6CQ6	D	3		1	30	4	
6BV7	D	4	9	6	100	5	6CA4	D	4	2, 6, 8, 9	7	30	5	6CQ8	C	4	7	1S	30S	5	
6BV7	D	4	9	8	35	5	6CA5	D	3	5	2	30	4	6CQ8	C	4	8	3S	30S	5	
6BV8	D	4		2	30	5	6CA7	EL34	C	2	4	15S	7	6CR6	D	3		2	100	4	
6BV8	D	4		6	100	5	6CA7	D	2		5	30	7	6CR6	D	3		7	35	4	
6BV8	D	4		9	100	5	6CB5	D	2	1, 5, 6	4	30	7	6CR8	D	4		2	30	5	
6BW4	C	4		7	45	5	6CB6	D	3		1	30	4	6CR8	D	4		9	30	5	
6BW4	D	4		1	35	5	6CD6	D	2		5	30	7	6CS5	D	4	6, 8	3	40	5	
6BW4	D	4		7	35	5	6CE5	D	3	2	1	30	4	6CS6	D	3		1	30	4	
6BW6	D	4	1	2	30	5	6CF6	D	3		1	30	4	6CS7	D	4		3	30	5	
6BW7	D	4	3	2	30	5	6CG6	D	3		1	30	4	6CS7	D	4		7	30	5	
6BW8	D	4		6	35	5	6CG7	D	4		2	30	5	6CS8	D	4		2	30	5	
6BW8	D	4		1	100	5	6CG7	D	4		7	30	5	6CS8	D	4		9	30	5	
6BW8	D	4		3	100	5	6CG8	D	4	8	1	30	5	6CU5	D	3	5	2	30	4	
6BX4	D	3		1(S)	15	5	6CG8	D	4	8	9	30	5	6CU6	D	2		5	30	7	
6BX4	D	3		6(S)	15	4	6CH6	D	4	1	2	30	5	6CU8	C	4	1	7	15	5	
6BX6	D	4	EF801	2	30	5	6CH7	D	4	9	2	30	5	6CU8	C	4	1	3S	35S	5	
6BX7	D	7		1	30	8	6CH7	D	4	9	7	30	5	6CX7	D	4	9	2	30	5	
6BX7	D	7		4	30	8	6CH7	D	4	9	7	30	5	6CX7	D	4	9	7	30	5	
6BX8	D	4		2	35	5	6CH8	D	4		7	35	5	6CX8	D	4		2	30	5	
6BX8	D	4		7	35	5	6CH8	D	4		8	35	5	6CX8	D	4		7	30	5	
6BY5	D	2		4	30	7	6CJ6	D	4	1, 6, 7	2	30	5	6CX8	D	4		7	30	5	
6BY5	D	2		5	30	7	6CK4	D	2	1	3	30	7	6CW5	D	4	1, 6, 8	2	30	5	
6BY6	D	3		1	35	4	6CK6	D	4		2	30	5	6CY5	D	3	7	1	30	4	
6BY7	D	4	EF801	2	35	5	6CL5	D	2	1, 3, 4	5	30	7	6CY7	D	4		3	30	5	
6BY8	D	4		1	30	5	6CL6	D	4	8, 9	2	30	5	6CY7	D	4		7	30	5	
6BY8	D	4		6	100	5	6CL6	C	4	3, 9	2	20	5	6CZ5	D	4	3, 8	6	35	5	
6BZ6	D	3		1	30	4	6CL8	D	4		1	30	5	6D4	D	3		1	30	4	
6BZ7	D	4		2	35	5	6CL8	D	4		9	30	5	6D8	D	2		5	30	7	
6BZ7	D	4		7	35	5	6CL8	C	4	8	1	15	5	6DA6	D	4	1	2	EF801	35	5
6BZ8	D	4		2	40	5	6CL8	C	4	3	7	30	5	6DB6	D	3		1	30	4	
6BZ8	D	4		7	40	5	6CM6	D	4	6	3	30	5	6DC6	D	3		1	30	4	
6C4	D	3	2, 5	6	35	4	6CM7	D	4		7	30	5	6DE4	D	7	2	5	35	8	
6C5	D	2		5	35	7	6CM7	D	4		8	30	5	6DE6	D	3		1	30	4	
6C8	D	2		5	30	7	6CM8	D	4		2	30	5	6DE6	C	3		1	15	4	
6C8	D	2		T. C.	30	7	6CM8	D	4		9	35	5	6DE7	C	4	28	1	10S	5	
6C8	D	2		6	100	5	6CN7	D	4	9	1	100	5	6DE7	C	4	29	7	50	5	

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FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
6DG6	D	2		5	30	7	6EH5	D	3	5	2	35	4	(Indicator Only)						
6DJ8	D	4		2	35	5	6EH5	C	3	2	6	15S	4	6FG6	D	4	2, 8	1	100	5
6DJ8	D	4	8	7	35	5	6EH7	C	4	1	8	10S	5	6FH5	C	3	1	2	25	4
6DK6	D	3		1	30	4	6EH8	D	4	6	2	40	5	6FH6	D	2		5	30	7
6DN6	C	2		8	10S	7	6EH8	D	4	6	7	40	5	6FH8	C	4		2	30	5
6DN7	D	7		1	35	8	6EM5	D	4	6, 8	3	30	5	6FH8	C	4		6	35	5
6DN7	D	7		4	35	8	6EM7	C	7	6	2	10S	8	6FM8	C	4	37	6	15	5
6DQ5	D	2	3, 4, 5	1	30	7	6EM7	C	7	3	4	30	8	6FM8	C	4	17	2	20	5
6DQ5	D	2		5	30	7	6EQ7	C	4		6	60S	5	6FM8	C	4	13	8	30	5
6DR7	C	4	28	1	80	5	6EQ7	C	4		8	80S	5	6FQ7	C	4	8	1	50S	5
6DR7	C	4	29	7	30	5	6ER5	C	3	1	5	20	4	6FQ7	C	4	3	6	80S	5
6DS5	D	3	7	1	30	4	6ES5	C	3	1	5	50S	4	6FS5	C	3	2	1	15	4
6DS5	C	3	1	6S	20S	4	6ES8	C	4	8	1	20S	5	6FW5	C	2		8	10S	7
6DT5	C	4	3	1S	20S	5	6ES8	C	4	3	6	20S	5	6FY5	C	3	1	5	20	4
6DT5	D	4	6, 8	3	30	5	6ET7	C	4	6	2	40S	5	6G6	D	2		5	30	7
6DT6	D	3		1	60	4	6ET7	C	4	6	3	30S	5	6G7	D	2		T.C.	30	4
6DT8	D	4		2	35	5	6ET7	C	4	1	8	21S	5	6GH8	C	4	8	3	40S	5
6DT8	D	4		7	35	5	6EUB	C	4	8	3	30S	5	6GH8	C	4	7	1	35S	5
6DT8	C	4	8	2	18	5	6EV7	C	4	8	2	20	5	6GK5	C	3	1	5	20	4
6DT8	C	4	3	7	20	5	6EV7	C	4	3	7	20	5	6GK6	C	4	9	8	20	5
6DW5	C	4	3	1S	10	5	6EW6	D	3		1	40	4	6GM6	C	3		6	40S	4
6DW5	D	4	3	6	30	5	6EW7	C	4	28	1	10S	5	6GW6	C	2		5	20	7
6DR7	D	4	3	2	35	5	6EW7	C	4	29	6	95S	5	6GY6	C	3	8	6	35S	4
6DR7	D	4	3	7	35	5	6EY6	C	2		4	15S	7	6GY8	C	4	78	1	30	5
6DZ7	C	2		1	20	7	6EZ5	C	2	5	4	15	7	6GY8	C	4	7	3	30	5
6DZ7	C	2		5	20	7	6EZ8	C	4		2	40	5	6GY8	C	4	8	6	35	5
6E8	D	2		5	30	7	6EZ8	C	4	1	7	40	5	6H4	D	2		4	100	7
6EA5	C	3	2	6S	35S	4	6EZ8	C	4	1	9	40	5	6H6	D	2		3	30	7
6EA7	C	7	6	2S	10S	8	6F5	D	2		T.C.	35	7	6H6	D	2		5	30	7
6EA7	C	7	3	4	35	8	6F6	D	2		5	30	7	6H7	D	2		5	30	7
6EA8	D	4		2	35	5	6F8	D	2		5	30	7	6H7	D	2		T.C.	30	7
6EA8	D	4		9	35	5	6F8	D	2		T.C.	30	7	6H8	D	2		4	100	7
6EB5	C	3	1	2	85	4	6FA7	C	4		7	35	4	6H8	D	2		5	100	7
6EB5	C	3	5	7	85	4	6FA7	C	4		3	20S	4	6H8	D	2		T.C.	35	7
6EB8	D	4		2	35	5	6FG5	C	3	2	1	15	4	6J4	D	3	5, 6	1	35	4
6EB8	D	4		7	35	5	6FG6	D	4	2, 8	1(S)	100	5	6J5	D	2		5	30	7
6EF6	D	2		5	30	7								6J6	D	3		5	30	4

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FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
6J6	D	3		6	30	4	6R6	D	2		T.C.	30	7	6SQ7	D	7		5	100	8
6J7	D	2		T.C.	30	7	6R7	D	2		4	100	7	6SR7	D	7		2	30	8
6J8	D	2		5	75	7	6R7	D	2		5	100	7	6SR7	D	7		4	100	8
6J8	D	2		T.C.	40	7	6R7	D	2		T.C.	30	7	6SR7	D	7		5	100	8
6K5	D	2		T.C.	35	7	6R8	D	4		1	65	5	6SS7	D	2		4	30	7
6K6	D	2		5	30	7	6R8	D	4		2	65	5	6ST7	D	7		2	30	8
6K7	D	2		T.C.	30	7	6R8	D	4		6	65	5	6ST7	D	7		4	100	8
9K8	D	2		5	35	7	6R8	D	4		8	35	5	6ST7	D	7		5	100	8
6L5	D	2		5	35	7	6S2	D	2	1, 4, 5,	T.C.(S)	35	9	6SU7	D	7		1	30	8
6L6	D	2		5	30	7					6, 8			6SU7	D	7		4	30	8
6L7	D	2		T.C.	35	7	6S4	D	4	1, 3, 7, 8	6	30	5	6SV7	D	7		2	30	8
6M5	D	4		2	35	5	6S5	D	2		4	30	7	6SV7	D	7		5	100	8
6M6	D	2		5	30	7	6S6	D	2		T.C.	35	7	6SZ7	D	7		2	30	8
6M7	D	2		3	35	7	6S7	D	2		T.C.	35	7	6SZ7	D	7		4	100	8
6M8	D	2		5	35	7	6S8	D	7		1	100	8	6SZ7	D	7		5	100	8
6M8	D	2		8	100	7	6S8	D	7		3	100	8	6T4	D	3	6, 7	2	35	4
6M8	D	2		T.C.	35	7	6S8	D	7		4	100	8	6T6	D	2		T.C.	35	7
6N4	D	3	6, 7	1	30	4	6S8	D	7		T.C.	35	8	6T7	D	2		4	100	7
6N6	D	2		5	30	7	6SA7	D	2		5	35	7	6T7	D	2		5	100	7
6N7	D	2		4	30	7	6SB7Y	D	2		5	35	7	6T7	D	2		T.C.	35	7
6N7	D	2		5	30	7	6SC7	D	7		3	30	8	6T8	D	4		1	100	5
6N8	D	4		2	30	5	6SC7	D	7		4	30	8	6T8	D	4		2	100	5
6N8	D	4		7	100	5	6SD7	D	2		4	30	7	6T8	D	4		6	100	5
6N8	D	4		8	100	5	6SE7	D	2		4	30	7	6T8	D	4		8	30	5
6P5	D	2		5	30	7	6SF5	D	7		3	35	8	6U3	D	4	1, 2, 6, 9(S)	7, 8	35	5
6P7	D	2		7	30	7	6SF7	D	7		2	30	8							
6P7	D	2		T.C.	30	7	6SF7	D	7		5	100	8	6U4	D	7		5	30	8
6P8	D	2		5	30	7	6SG7	D	2	3	4	30	7	6U4						
6P8	D	2		T.C.	30	7	6SH7	D	2	5	4	30	7	EZ80	C	4		1	30	5
6Q4	D	4	1, 2, 7	8	35	5	6SJ7	D	2		4	30	7	6U4						
6Q5	D	2		5	30	7	6SK7	D	2		4	30	7	EZ80	C	4		7	30	5
6Q6	D	2		5	100	7	6SL7	D	7		1	30	8	6U6	D	2		5	30	7
6Q6	D	2		T.C.	35	7	6SL7	D	7		4	30	8	6U7	D	2		T.C.	30	7
6Q7	D	2		4	100	7	6SN7	D	7		1	30	8	6U8	D	4		2	30	5
6Q7	D	2		5	100	7	6SN7	D	7		4	30	8	6U8	D	4		9	30	5
6Q7	D	2		T.C.	35	7	6SQ7	D	7		2	30	8	6V3	D	4	7, 9	2	30	5
6R4	D	4		1	35	5	6SQ7	D	7		4	100	8	6V4	D	4	2, 6, 8, 9	7	35	5

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power Switch MUST be switched DOWN to the "LO" position.

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FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
6V4	D	4	2,6,8,9	1	35	5	7A7	D	1		6	35	8	7F7	D	1		5	30	8
6V5	D	7		5	30	8	7A8	D	1		4	35	8	7F8	D	2		1	35	7
6V6	D	2		5	30	7	7AB7	D	2	4,6	5	35	7	7F8	D	2		8	35	7
6V7	D	2		4	100	7	7AD7	D	1		6	30	8	7G7	D	1		6	30	8
6V7	D	2		5	100	7	7AF7	D	1		4	30	8	7G8	D	1		4	30	8
6V7	D	2		T.C.	35	7	7AF7	D	1		5	30	8	7G8	D	1		5	30	8
6V8	D	4		2	100	5	7AG	D	1	5	6	30	8	7H7	D	1		6	35	8
6V8	D	4		6	35	5	7AH7	D	1		6	35	8	7J7	D	1		4	35	8
6V8	D	4		7	100	5	7AJ7	D	1		6	35	8	7J7	D	1		6	35	8
6V8	D	4		9	100	5	7AK7	D	1		6	35	8	7K7	D	1		4	35	8
6W4	D	7		5	35	8	7AN7	D	4		2	35	5	7K7	D	1		5	100	8
6W5	D	2		3	35	7	7AN7	D	4		6	35	5	7K7	D	1		6	100	8
6W5	D	2		5	35	7	7AU7	D	4	9	2	30	5	7L7	D	1		6	35	8
6W6	D	2		5	30	7	7AU7	D	4	9	7	30	5	7N7	D	1		4	30	8
6W7	D	2		T.C.	35	7	7B4	D	1		6	35	8	7N7	D	1		5	30	8
6X2	D	1		T.C.(S)	100	2	7B3	D	1		6	30	8	7Q7	D	1		4	35	8
				(Use In-Line Socket)			7B6	D	1	4	3	35	8	7R7	D	1		3	100	8
6X4	D	3		1	30	4	7B6	D	1	4	5	100	8	7R7	D	1		4	100	8
6X4	D	3		6	30	4	7B6	D	1	4	6	100	8	7R7	D	1		6	35	8
6X5	D	2		3	30	7	7B7	D	1		6	35	8	7S7	D	1		4	35	8
6X5	D	2		5	30	7	7B8	D	1		4	35	8	7S7	D	1		6	35	8
6X6	D	2		4	30	7	7C4	D	1		4	60	8	7T7	D	1		6	35	8
6X8	D	4		2	35	5	7C5	D	1		6	30	8	7V7	D	1		6	35	8
6X8	D	4		7	35	5	7C6	D	1	4	3	35	8	7W7	D	1	7	6	35	8
6Y3	D	2		T.C.(S)	30	7	7C6	D	1	4	5	100	8	7X6	D	1		3	30	8
6Y6	D	2		5	30	7	7C6	D	1	4	6	100	8	7X6	D	1		6	30	8
6Y7	D	2		4	30	7	7C7	D	1		6	35	8	7X7	D	1		3	35	8
6Y7	D	2		5	30	7	7D7	D	1		4	30	8	7X7	D	1		5	100	8
6Z6	D	2		3	30	7	7D7	D	1		6	30	8	7X7	D	1		6	100	8
6Z6	D	2		5	30	7	7E5	D	2	3,4,5	1	30	8	7Y4	D	1		3	30	8
6Z7	D	2		4	35	7	7E6	D	1	4	3	35	8	7Y4	D	1		6	30	8
6Z7	D	2		5	35	7	7E6	D	1	4	5	100	8	7Z4	D	1		3	30	8
6ZY5	D	2		3	30	7	7E6	D	1	4	6	100	8	7Z4	D	1		6	30	8
6ZY5	D	2		5	30	7	7E7	D	1		3	100	8	*8A8	D	4		2	40	5
7A4	D	1		6	35	8	7E7	D	1		4	100	8	*8A8	D	4		9	40	5
7A5	D	1		6	30	8	7E7	D	1		6	35	8	*8AU8	D	4		2	30	5
7A6	D	1		3	35	8	7EY6	D	2		5	30	7	*8AU8	D	4		7	30	5
7A6	D	1		6	35	8	7F7	D	1		4	30	8	*8AW8	D	4		2	30	5

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power

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FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
*8AW8	D	4		7	30	5	*9AK8	D	4		8	35	5	12AE6	E	3		1	60	4
*8RA8	D	4		2	40	5	*9AQ8	D	4		2	35	5	12AE7 *D	4	98		1	35	5
*8BA8	D	4		7	40	5	*9AQ8	D	4		7	35	5	12AE7 *D	4	93		7	15	5
*8BH8	D	4		2	30	5	9AU7	C	9		2	30	5	12AF3	E	4	1,2,3,9		30	5
*8BH8	D	4		7	30	5	9AU7	C	9		7	30	5				6,7,8			
*8BN8	D	4		1	100	5	*9BM5	D	3	7	1	35	4	12AF6	E	3		1	60	4
*8BN8	D	4		6	100	5	9BR7	D	4	98	2	25	5	12AG6	E	3		1	60	4
*8BN8	D	4		8	35	5	9BR7	D	4	93	6	25	5	12AH7	E	7		1	35	8
*8BQ5	D	4	1,6	8	30	5	9BR7	D	4	93	7	25	5	12AH7	E	7		5	35	8
*8BQ7	D	4		2	35	5	*9BW6	D	4	1	2	35	5	12AH8	E	4	9	2	35	5
*8BQ7	D	4		7	35	5	*9CL8	D	4		1	35	5	12AH8	E	4	9	7	35	5
*8CG7	D	4		2	30	5	*9CL8	D	4		9	35	5	12AJ6	E	3		1	30	4
*8CG7	D	4		7	30	5	9EF6	E	2		5	30	7	12AJ6	E	3		5	100	4
*8CM7	D	4		7	30	5	9U8	E	4		2	30	5	12AJ6	E	3		6	100	4
*8CM7	D	4		8	30	5	9U8	E	4		9	30	5	12AJ7	E	4		2	35	5
*8CN7	D	4	9	1	100	5	10C8	E	4		2	30	5	12AJ7	E	4		9	35	5
*8CN7	D	4	9	2	100	5	10C8	E	4		8	30	5	12AL5	E	3		2	25	4
*8CN7	D	4	9	7	35	5	10DR7 *D	4	28	1	40	5	12AL5	E	3		7	25	4	
*8CS7	D	4		3	30	5	10DR7 *D	4	29	7	20	5	12AL8	E	4		3	35	5	
*8CS7	D	4		7	30	5	10EG7 *D	7	6	2	35	8	12AL8	E	4		8	35	5	
*8CX8	D	4		2	30	5	10EG7 *D	7	3	4	20	8	12AQ5	E	3	7	1	30	4	
*8CX8	D	4		7	30	5	10EM7 *D	7	6	2	40	8	12AT6	E	3		1	35	4	
*8CY7	D	4		3	30	5	10EM7 *D	7	3	4	15	8	12AT6	E	3		5	100	4	
*8CY7	D	4		7	30	5	10HF8 *D	4	6	3	90S	5	12AT6	E	3		6	100	4	
*8EB8	D	4		2	35	5	10HF8 *D	4	1	8	10S	5	12AT7	E	4	5, 8, 9	2	35	5	
*8EB8	D	4		7	35	5	11CY7	E	4		3	35	5	12AT7	E	4	9	7	35	5
*8EM5	D	4	6,8	3	30	5	11CY7	E	4		7	35	5	12AU6	E	3		1	35	4
8ET7	*C	4		6	40S	5	12A4	E	4	3,7	2	35	5	12AU7	E	4	9	2	35	5
8ET7	*C	4		6	30S	5	12A6	E	2		5	30	7	12AU7	E	4	8, 9	7	35	5
8ET7	*C	4		1	21S	5	12A8	E	2		5	35	7	12AV5	E	2		1	30	7
8GN8	*C	4		6	15	5	12AB5	E	4	1,3	5	30	5	12AV6	E	3		1	35	4
8GN8	*C	4		1	15S	5	12AC6	E	3		1	40	4	12AV6	E	3		5	100	4
*8SN7	D	7		1	30	8	12AD5	E	3		1	60	4	12AV6	E	3		6	100	4
*8SN7	D	7		4	30	8	12AD7	E	4	9	2	30	5	12AV7	E	4	9	2	35	5
*9AK8	D	4		1	100	5	12AD7	E	4	9	7	30	5	12AV7	E	4	9	7	35	5
*9AK8	D	4		2	100	5	12AE6	E	3		5	100	4	12AW6	E	3		1	35	4
*9AK8	D	4		6	100	5	12AE6	E	3		6	100	4	12AW7	E	3		1	35	4

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power

Switch MUST be switched DOWN to the "LO" position.

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FIL.						FIL.						FIL.										
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.		
12AX4	E	7		5	35	8	12BU6	E	3		1	35	4	12DK7	E	4	8	6	100	5		
12AX7	E	4	9	2	35	5	12BU6	E	3		5	100	4	12DK7	E	4	8	9	100	5		
12AX7	E	4	9	7	35	5	12BU6	E	3		6	100	4	12DL8	E	4		3	35	5		
12AY7	E	4	9	2	35	5	12BV7	E	4	3, 6	2	30	5	12DL8	E	4		1	100	5		
12AY7	E	4	9	7	35	5	12BW4	E	4		1	30	5	12DL8	E	4		9	100	5		
12AZ7	E	4	9	2	35	5	12BW4	E	4		7	30	5	12DQ6	E	2		5	30	7		
12AZ7	E	4	9	7	35	5	12BY7	E	4	6, 9	2	30	5	12DQ7 *D	4	69	8	15S	6	6		
12B4	E	4	3, 7	2	35	5	12BZ6 *D	3		6	20S	4	12DS7	E	4		3	35	5	5		
12B6	E	2		T.C.	35	7	12BZ7	E	4	9	2	30	5	12DS7	E	4		1	100	5	5	
12B7	E	1		6	35	8	12BZ7	E	4	9	7	30	5	12DS7	E	4		9	100	5	5	
12B8	E	2		8	35	7	12C5	E	3	2	5	35	4	12DT5	E	4	6, 8	3	35	5	5	
12B8	E	2		T.C.	35	7	12C8	E	2		4	100	7	12DT8	E	4		2	35	5	5	
12BA6	E	3		1	35	4	12C8	E	2		5	100	7	12DT8	E	4		7	35	5	5	
12BA7	E	4	8	2	35	5	12C8	E	2		T.C.	35	7	12DT8 *D	4	8	2	24	5	5	5	
12BD6	E	3		1	35	4	12CA5	E	3	5	2	30	4	12DT8 *D	4	3	7	25	5	5	5	
12BE6	E	3		1	35	4	12CB6	E	3		1	35	4	12DU7 *D	4		3	30	5	5	5	
12BF6	E	3		1	60	4	12CD6	E	2		5	30	7	12DU7 *D	4		7	60S	5	5	5	
12BF6	E	3		5	100	4	12CM6	E	4	6	3	30	5	12DU7 *D	4		9	100S	5	5	5	
12BF6	E	3		6	100	4	12CN5	E	3	5	2	40	4	12DV8	E	4		3	35	5	5	5
12BH7	E	4	9	2	30	5	12CR6	E	3		2	100	4	12DV8	E	4		1	100	5	5	5
12BH7	E	4	9	7	30	5	12CR6	E	3		7	35	4	12DV8	E	4		9	100	5	5	5
12BK5	E	4	7	3	30	5	12CS5	E	4	6, 8	3	40	5	12DW5	E	4	3	6	35	5	5	5
12BK6	E	3		1	35	4	12CS6	E	3		1	60	4	12DW5 *D	4	3	1S	15	5	5	5	
12BK6	E	3		5	100	4	12CS7	E	4		3	40	5	12DW7 *D	4	89	1	100S	9	9	9	
12BK6	E	3		6	100	4	12CS7	E	4		7	40	5	12DW7 *D	4	39	7	20	9	9	9	
12BL6	E	3		1	60	4	12CT8	E	4		2	30	5	12DY8	E	4		1	35	5	5	5
12BN6	E	3		5(S)	100	4	12CT8	E	4		8	30	5	12DY8	E	4		9	35	5	5	5
12BQ6	E	2		5	30	7	12CU6	E	2		5	25	7	12DZ6	E	3		1	30	4	4	4
12BR7	E	4	9	2	30	5	12CX6	E	3		1	35	4	12E5	E	2		5	30	7	7	7
12BR7	E	4	9	6	100	5	12D4	E	7	1, 2	5	40	8	12EA6	E	3		1	35	4	4	4
12BR7	E	4	9	7	100	5	12DE8	E	4		1	35	5	12EC8	E	4		1	35	5	5	5
12BR7 *D	4	98	2	15	5	5	12DE8	E	4		3	100	5	12EC8	E	4		9	35	5	5	5
12BR7 *D	4	93	6	15	5	5	12DF5	E	4	9	1	35	5	12ED5	E	3	5	2	35	4	4	4
12BR7 *D	4	93	7	15	5	5	12DF5	E	4	9	6	35	5	12EF6	E	2		5	35	7	7	7
12BT6	E	3		1	35	4	12DF7	E	4	9	2	35	5	12EH5 *D	3	2	6	10S	4	4	4	4
12BT6	E	3		5	100	4	12DF7	E	4	9	7	35	5	12EG6	E	3		1	35	4	4	4
12BT6	E	3		6	100	4	12DK7	E	4	8	1	35	5	12EH5	E	3	5	2	35	4	4	4

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power Switch MUST be switched DOWN to the "LO" position.

FIL.						FIL.						FIL.										
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.		
12EK6	E	3		1	35	4	12J7	E	2		T.C.	35	7	12SQ7	E	7		5	100	8	8	8
12EL6	E	3		1	60	4	12J8	E	4		1	40	5	12SR7	E	7		2	35	8	8	8
12EL6	E	3		5	100	4	12J8	E	4		8	100	5	12SR7	E	7		4	100	8	8	8
12EL6	E	3		6	100	4	12J8	E	4		9	100	5	12SR7	E	7		5	100	8	8	8
12EM5	E	4	6, 8	3	30	5	12K5	E	3	5	6	30	4	12SW7	E	7		2	35	8	8	8
12EM6	E	4	7, 8	1	35	5	12K7	E	2		T.C.	35	7	12SW7	E	7		4	100	8	8	8
12EM6	E	4	7, 8	9	100	5	12K8	E	2		5	35	7	12SW7	E	7		5	100	8	8	8
12EN6	E	2		5	30	7	12L6	E	2		5	30	7	12SX7	E	7		1	30	8	8	8
12EZ6	E	3		1	30	4	12L8	E	6		1	30	7	12SX7	E	7		4	30	8	8	8
12F5	E	2		T.C.	35	7	12L8	E	6		3	30	7	12SY7	E	2		5	30	7	7	7
12F8	E	4		1	100	5	12Q7	E	2		4	100	7	12U7	E	4	9	2	40	5	5	5
12F8	E	4		6	100	5	12Q7	E	2		5	100	7	12U7	E	4	9	7	40	5	5	5
12F8	E	4		8	50	5	12Q7	E	2		T.C.	35	7	12V6	E	2		5	30	7	7	7
12FA6	E	3		1	35	4	12R5	E	3	5	2	30	4	12W6	E	2		5	30	7	7	7
12FK9 *D	3		7	15	4	4	12S8	E	7		3	100	8	12X4	E	3		1	30	4	4	4
12FK6 *D	3		6	40	4	4	12S8	E	7		4	100	8	12X4	E	3		6	30	4	4	4
12FK6 *D	3		5	40S	4	4	12S8	E	7		5	100	8	13DE7 *D	4	28	1	40	5	5	5	
12FQ8	E	4		2	20	5	12S8	E	7		T.C.	35	8	13DE7 *D	4	29	7	15	5	5	5	
12FQ8	E	4		7	20	5	12SA7	E	2		5	35	7	13DR7 *D	4	28	1	40	5	5	5	
12FR8 *D	4	2		6	10	5	12SB7	E	2		5	35	7	13DR7 *D	4	29	7	20	5	5	5	
12FR8 *D	4		9	20S	5	5	12SB8	E	7		1	100	8	14A4	E	1		6	35	8	8	8
12FR8 *D	4		8	20S	5	5	12SB8	E	7		3	100	8	14A5	E	1		6	30	8	8	8
12FX8 *D	4	7		8	20S	5	12SB8	E	7		4	100	8	14A7	E	1		6	30	8	8	8
12FX8 *D	4		1	15S	5	5	12SC7	E	7		3	35	8	14AF7	E	1		4	35	8	8	8
12FM6 *D	3		5	75	4	4	12SC7	E	7		4	35	8	14AF7	E	1		5	35	8	8	8
12FM6 *D	3		6	75	4	4	12SF5	E	7		8	35	8	14B6	E	1	4	3	35	8	8	8
12FM6 *D	3		7	12S	4	4	12SF7	E	7		2	35	8	14B6	E	1	4	5	100	8	8	8
12G4	E	3	2, 5	6	35	4	12SF7	E	7		5	100	8	14B6	E	1	4	6	100	8	8	8
12G7	E	2		4	100	7	12SG7	E	2	3	4	35	7	14B8	E	1		4	30	8	8	8
12G7	E	2		5	100	7	12SH7	E	2	3	4	35	7	14C5	E	1		6	30	8	8	8
12G7	E	2		T.C.	35	7	12SJ7	E	2		4	35	7	14C7	E	1		6	30	8	8	8
12G8	E	4	9	3	60	5	12SK7	E	2		4	35	7	14DA7	E	4		3	35	5	5	5
12G8	E	4	9	8	60	5	12SL7	E	7		1	30	8	14DA7	E	4		7	35	5	5	5
12GC6 *D	2	4	5	10	7	7	12SL7	E	7		4	30	8	14E6	E	1	4	3	35	8	8	8
12H4	E	3	2	6	35	7	12SN7	E	7		1	30	8	14E6	E	1	4	5	100	8	8	8
12H6	E	2		3	35	7	12SN7	E	7		4	30	8	14E7	E	1	4	6	100	8	8	8
12H6	E	2		5	35	7	12SQ7	E	7		2	35	8	14E7	E	1	4	3	100	8	8	8
12J5	E	2		5	35	7	12SQ7	E	7		4	100	8	14E7	E	1	4	4	100	8	8	8

\*IMPORTANT NOTE: Asterisk (\*) preceding Tube listing means Power Switch MUST be switched DOWN to the "LO" position.

FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
14E7	E	1		6	35	8	*17AX4	E	7		5	40	8	19E28	*E	4	1	9	90	5
14F7	E	1		4	35	8	*17BQ6	E	2		5	30	7	19J6	F	3		5	35	4
14F7	E	1		5	35	8	*17C5	E	3	5	2	60	4	19J6	F	3		6	35	4
14F8	E	2		1	35	7	*17CA5	E	3	5	2	35	4	19HUB	*E	4	8	1	15	5
14F8	E	2		8	35	7	*17CU5	E	3	5	2	35	4	19HUB	*E	4	3	7	15S	5
14GT8	E	4	17	2	25	4	17D4	E	7		5	20	8	19T8	F	4		1	100	5
14GT8	E	4	37	6	15	4	*17DE4	E	7	2	5	35	8	19T8	F	4		2	100	5
14GT8	E	4	13	8	40	4	*17DQ6	E	2		5	40	7	19T8	F	4		6	100	5
14H7	E	1		6	35	8	17DM4	*E	7		5	15	8	19T8	F	4		8	35	5
14J7	E	1		4	35	8	17EW8	*E	4	8	1	30S	5	19V8	F	4		2	100	5
14I7	E	1		6	60	8	17EW8	*E	4	3	6	30S	5	19V8	F	4		6	35	5
14JG8	*D	4	17	2	25	5	17GW6	*E	2		5	15	7	19V8	F	4		7	100	5
14JG8	*D	4	37	6	100S	5	*17H3	E	4	2, 6, 7, 8, 9	3	40	5	19V8	F	4		9	100	5
14JG8	*D	4	13	8	30	5								19X3	F	4	1, 2, 6, 7, 8	9	100	5
14N7	E	1		4	30	8	*17L6	E	2		5	40	7							
14N7	E	1		5	30	8	*17R5	E	3	5	2	40	4	19X8	F	4		2	35	5
14Q7	E	1		4	35	8	*17Z3	E	4		9	50	5	19X8	F	4		7	35	5
14R7	E	1		3	100	8	*18A5	E	2		1	50	7	19Y3	F	4	1, 2, 6, 7, 8	9	35	5
14R7	E	1		4	100	8	18FW6	*E	3		6	20S	4							
14R7	E	1		6	35	8	18FX6	*E	3		6	15S	4	20EZ7	*E	1	39	5	15	2
14S7	E	1		4	35	8	18FY6	*E	3		1	20	4	20EZ7	*E	1	34	8	15	2
14S7	E	1		6	60	8	18FY6	*E	3		5	15S	4	21A6	F	4	1, 6, 7	2	35	5
14W7	E	1	4	6	35	8	18FY6	*E	3		6	20S	4	21A7	F	1		4	60	8
14X7	E	1		3	35	8	18QD6A	*E	3		6	30S	4	21A7	F	1		6	30	8
14X7	E	1		5	100	8	19AQ5	F	3	1	7	30	4	21EX6	*E	2		8	90	7
14X7	E	1		6	100	8	19AU4	F	7		5	30	8	22DE4	*E	7		5	12	8
14Y4	E	1		3	30	8	19AU4	*E	7		5	15	8	25A6	F	2		5	30	7
14Y4	E	1		6	30	8	19B6	F	2		5	30	7	25A7	F	2		5	30	7
15A6	E	4		2	30	5	19C8	F	4		1	100	5	25A7	F	2		6	30	7
15A8	E	2		3	30	7	19C8	F	4		2	100	5	25AC5	F	2		5	30	7
15A8	E	2		4	30	7	19C8	F	4		6	100	5	25AV5	F	2		1	30	7
15EA7	E	7	6	1	20	8	19C8	F	4		8	35	5	25AX4	F	7		5	30	8
15EA7	E	7	3	4	30	8	19CL8	*E	4	8	2	20S	5	25B6	F	2		5	30	7
15EW6	E	3		6	15	4	19CL8	*E	4	3	7	15S	5	25B8	F	2		8	30	7
*16A5	E	4	6	2	30	5	19EA8	*E	4	8	3	18S	5	25B8	F	2		T,C.	30	7
*16A8	E	4		1	30	5	19EA8	*E	4	7	1	20S	5	25BK5	F	4	7	3	30	5
*16A8	E	4		3	30	5	19EZ8	*E	4		3	80S	5	25BQ6	F	2		5	30	7
*17AV5	E	2		1	30	7	19EZ8	*E	4	1	7	90	5							

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FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
25C5	F	3	2	5	30	4	26D6	F	3		1	35	5	50DC4	*F	3	6	5	10	6
25C6	F	2		5	30	7	26Z5W	F	4	9	1	30	5	50EH5	G	3	5	2	35	4
25CA5	F	3	5	2	30	4	26Z5W	F	4	9	6	30	5	50FE5	*F	2		4	10S	7
25CD6	F	2		5	30	7	*28D7	F	1		2	30	8	50FK5	*F	3	2	6	12S	4
25CG6	F	2		1	30	7	*28D7	F	1		7	30	8	50HC6	*F	3	6	5	10S	4
25CU6	F	2		5	30	7	*28Z5	F	1	4	3	35	8	50L6	G	2		5	35	7
25D6	F	2		5	30	7	*28Z5	F	1	4	6	35	8	50X6	G	1		3	30	8
25D8	F	2		5	35	7	32ET5	F	3	2	6	13S	4	50X6	G	1		6	30	8
25D8	F	2		8	100	7	*32L7	F	2		5	35	7	50Y6	G	2		3	30	7
25D8	F	2		T,C.	35	7	*32L7	F	2		6	35	7	50Y6	G	2		5	30	7
25DK4	*E	3	6	5	10	4	*35A5	F	1		6	35	8	50Y7	G	2	6	3	30	7
25DN6	F	2		5	30	7	*35A6	F	1		6	35	8	50Y7	G	2	6	5	30	7
25DQ6	F	2	5	5	30	7	*35B5	F	3	7	1	35	4	50Z6	G	2		3	30	7
25E5	F	2		5	30	7	*35C5	F	3	2	5	35	4	50Z6	G	2		5	30	7
25EC6	F	2		5	25	7	*35CD6	F	2		5	40	7	50Z7	G	2		3	30	7
25EM5	F	3	5	2	35	4	35EH5	*F	3	2	6	10S	4	50Z7	G	2		5	30	7
25EH5	*E	3	2	6	15S	4	35GL6	*F	3	6	2	15	4	70L7	G	2	6	8	20	7
25F5	F	3		2	30	4	35HB8	*F	4	8	3	80S	5	70L7	G	2	1	4	15S	7
25L6	F	2		5	30	7	35HB8	*F	4	2	6	10S	5	117L7	J	2		4	30	7
25N6	F	2		5	30	7	*35L6	F	2		5	30	7	117L7	J	2		6	30	7
25W4	F	7		5	30	8	*35W4	F	3	6	5	35	8	117M7	J	2		4	30	7
25W6	F	2		5	30	7	*35Y4	F	1	4	2	35	8	117M7	J	2		6	30	7
25X6	F	2		3	30	7	*35Z3	F	1	4	2	35	8	117N7	J	2		4	30	7
25X6	F	2		8	30	7	*35Z4	F	2		5	30	7	117N7	J	2		8	30	7
25Y4	F	2		5	30	7	*35Z5	F	2	3	5	30	7	117P7	J	2		4	30	7
25Z4	F	2		5	30	7	*35Z6	F	2		3	30	7	117P7	J	2		8	30	7
25Z6	F	2		3	30	7	*35Z6	F	2		5	30	7	117Z3	J	3	1	5	30	4
25Z6	F	2		5	30	7	36AM3A	*F	3	6	5	10	6	117Z4	J	2		5	30	7
26A6	F	3		1	35	4	40Z5	G	2	3	5	40	7	117Z6	J	2		3	30	7
26A7	F	6		1	30	7	45Z3	G	1	3, 6	2	30	7	117Z6	J	2		5	30	7
26A7	F	6		3	30	7	45Z5	G	2	3	5	40	7	884	D	2		5	30	7
26BK6	F	3		1	35	4	50A5	G	1		6	30	8	1851	D	2		T.C.	30	7
26BK6	F	3		5	100	4	50AX6	G	2		3	30	7	1852	D	2		4	30	7
26BK6	F	3		6	100	4	50AX6	G	2		5	30	7	1853	D	2		4	30	7
26C6	F	3		1	35	4	50B5	G	3	7	1	30	4	5879	C	4		1	30	5
26C6	F	3		5	100	4	50BK5	G	4	7	3	30	5	6267	D	4	6	9	40	5
26C6	F	3		6	100	4	50C5	G	3	2	5	30	4	6973	D	4	1, 3	6	35	5
26CG6	F	3		1	35	4	50C6	G	2		5	30	7	7025	*D	4	89	1	40S	5

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FIL.						FIL.						FIL.								
TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.	TUBE.	VOLTS.	F.	N.	E.	LOAD.	C.
<b>ECC83</b> 7025	*D	4	39	6	40S	5														
7027	D	2	1, 6	5	35	7														
7036	D	3		1	30	4														
<b>EL84</b> 7189	C	4	1	9	25S	5														
7247	*D	4	89	1	40S	9														
7247	*D	4	39	7	10S	9														
7355	C	2		8	20S	7														
7408	C	2		4	25S	7														
<b>EF91</b> 7543	D	3		6	60S	4														
7591	C	2	8	4	20S	7														
7695	*F	4		1	10S	5														

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## B E D I E N U N G S A N L E I T U N G

**Achtung** : Um ernsthafte Schäden am Meßgerät zu vermeiden, machen Sie **immer** einen "kurzen(SHORT)" - Test, vor dem eigentlichen "Werte(VALUE) - Test.

- Bringen Sie alle Auswahlgleitschalter auf Position "K".
- Befestigen Sie das Kabel am Power - Ausgang und der AC(Wechselstrom) - Anzeiger wird ansteigen.
- Stellen Sie den "FILAMENT" - Spannungsschalter auf die Position, die in der Spalte "Fil." der Röhrentabelle für den Röhrentyp angegeben ist.

**WICHTIG:** Betätigen Sie diesen Schalter niemals, wenn eine Röhre eingesetzt ist in irgendeinen der vorgesehenen Sockel.

- Stecken Sie die zu testende Röhre in den passenden Sockel. Befestigen Sie den Anodenkappenleiter an der Röhrenhaube, falls vorhanden.

### "FILAMENT CONTINUITY" TEST = HEIZFADEN-STETIGKEITS TEST

- Stellen Sie die Teilwahlschalter aus Spalte "F" in Position "F".
- Stellen Sie ebenso den Teilwahlschalter zu Spalte "N" auf Stellung "N".
- Stellen Sie den Teilwahlschalter zu Spalte "C" auf Stellung "P".
- Falls die Anzeigelampe leuchtet, ist Stetigkeit im Filament (Heizfaden) der getesteten Röhre.
- Schalten Sie den Teilwahlschalter zu Spalte "C" zurück auf Stellung "K".

## "SHORT" TEST = KURZSCHLUSS TEST

- Mit Ausnahme des Wahlschalter zu Spalte "C" und der Wahlschalter, die schon auf Stellung "F" oder "N" Stehen, schalte alle anderen Wahlschalter, einen nach dem anderen, auf Stellung "P", und dann zurück auf Stellung "K". Ein beständiges Glimmen der Anzeigelampen während ein Einzel-Wahlschalter auf Position "P" steht, zeigt einen "Kurzschluß zwischen den Röhrenelementen.

Beachte: Beim Test von Röhren wie der 6 V 6 und der 35 L 6 ein nur leichtes Glimmen der Anzeigelampe könnte leicht unbemerkt bleiben, aufgrund des -high inherent leakage-(baulich bedingter Lecks) diverser Röhren.

## "VALUE TEST" = WERTE TEST

- Stellen Sie die "LOAD"(Ladungs) -Kontrolle auf den in der Spalte "LOAD" angegebenen Wert der Röhrenliste.
- Stellen Sie den Teilwahlschalter wie in Spalte "E" angezeigt, auf die Position "P".
- Lassen Sie die Röhre 30 Sekunden aufwärmen.
- Drücken Sie den "SHORT-VALUE TEST" - Schalter auf Position "VALUE". Befindet sich der Meßgerätezeiger im grünen Bereich, so ist die Röhre gut. Im roten Bereich ist die Röhre schlecht.

**BEACHTEN:** Wenn die getestete Röhre oder der getestete Gleichrichter zum Befund "DIODES OK(in Ordnung) geführt hat, mache folgendes:

- Bringe alle Wahlschalter auf Position "K" zurück.
- Bringe den "POWER" - Schalter in Position "OFF".

RÖHREN - Europa-Amerika

EAA 91 = EB 91

EABC 80 = 6 AK 8

ECC 81 = 12 AT 7

ECC 82 = 12 AU 7

ECC 83 = 12 AX 7

ECC 85 = 6 AQ 8

88 6 038  
ECH 81 = 6 AJ 8

ECH 83 = 6 DS 8

ECH 84 = 6 JX 8

ECL 82 = 6 BM 8

ECL 86 = 6 GW 8

EF 80 = 6 BX 6

EF 85 = 6 BY 7

EF 86 = 6 CF 8

EF 89 = 6 DA 6

EF 183 = 6 EH 7

EF 184 = 6 EJ 7

EL 34 = 6 CA 7

EL 84 = 6 BQ 5

EL 95 = 6 DL 5

GY 501 = 3 BH 2

GZ 34 = 5 AR 4

PCF 80 = 9 A 8

PCF 82 = U 8 A

PCF 86 = 7 HG 8

PCF 802 = 9 JW 8

PCL 82 = 16 A 8

PCL 84 = 15 DQ 8

PCL 86 = 14 GW 8

PFL 200 = 16 Y 9

PY 88 = 30 AE 3

FE 80 = 6 V 4

6 N 3 P = 2 C 5 7