

CONAR 221 - 223

SUPPLEMENTARY TUBE CHART

This Supplementary Chart provides settings for tubes which fall into one or more of the following classifications:

1. Infrequently encountered types;
2. Obsolete types;
3. Tubes manufactured for special or limited applications.
4. Foreign types.

The Roll Chart provides test settings for all other receiving type tubes most commonly encountered in the radio field.

KEY TO LETTER ABBREVIATIONS INDICATING TUBE SECTION UNDER TEST

a Amp.	h Heptode	o Output	r Rectifier
d Diode	he Hexode	p Plate	s Section
e Eye	I Input	pe Pentode	te Tetrode
		t Triode	to Total

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test	
OY4	4	18		12	7-8	5	1C6	to	2	3	1	22	2-3-4-5-10	
	(OY4 - Cont. Test - 7-8)							t	2	3	1	24	3-4	
O1A	2	7	1	22		2-3	1C7	to	1	3	2	10	3-4-5-6-10	
1A3	d	1	2	1	16	3	t	2	3	2	26		5-6	
	(1A3 - must show short on 2)							1C8	2	2	4	26	2-6-7-8	
1A4	2	3	1	24		2-3-10	1C21		2	18		18	2	5
1A5	2	2	2	20		3-4-5	1D3	2	2	4	16		1-8	
1A6	to	1	3	1	10	2-3-4-5-10	1D5	2	3	2	22		3-4-10	
	t	2	3	1	30	3-4	1D7	to	1	3	2	10	3-4-5-6-10	
1A7	to	1	2	2	10	3-4-5-6-10	t	1	3	2	10		5-6	
	t	1	2	2	12	5-6	1D8	d	1	2	2	16	8	
1AB5	2	2	1	20		2-3-6	t	2	2	2	28		6-10	
	(1AB5 - Cont. Test 7-8)							pe	2	2	2	20	3-4-5	
1AB6	2	2	7	20		2-3-4-5-6	1E5	1	3	2	10		3-4-10	
1AC5	2	2	4	20		2-7-8	1E7	pe	2	3	2	20	3-4-8	
1AC6	a	2	2	7	16	2-3-4-5-6	pe	2	3	2	20		5-6-8	
	o	2	2	7	20	3-4-5	1E8		2	2	4	22	2-6-7-8	
1AD4	2	2	5	16		1-2-4	t	2	2	4	22		2-7	
1AD5	2	2	4	20		2-7-8	1F4		3	3	1	34	2-3-5	
1AE4	2	2	7	16		2-3-6	1F5		2	3	2	20	3-4-5	
	(1AE4 - Cont. Test - 1-5)							1F6	d	1	3	1	16	4
1AF4	2	2	7	18		2-3-6	d	1	3	1	16		5	
	(1AF4 - Cont. Test - 1-5)							pe	1	3	1	10	2-3-10	
1AF5	2	2	1	20		3-4-5-6	d	1	3	2	16		4	
1AG4	2	2	3	20		1-2-4	d	1	3	2	16		5	
1AG5	pe	2	2	4	24	1-2-5	pe	1	3	2	10		3-6-10	
	d	1	2	4	14	3	1G4		1	2	2	10	3-5	
1AH4	2	2	3	18		1-2-4	1G5		2	3	2	20	3-4-5	
1AJ5	pe	2	2	4	26	1-2-5	1G6	t	1	2	2	10	3-4	
	d	1	2	4	12	3	t	1	2	2	10		5-6	
1AK4	1	2	3	28		1-2-4	1H2		1	2	2-5-8	88	10	
1AK5	pe	1	2	4	42	1-2-5		(1H2 - Cont. Test - 1-2-4-5-6-8-9)						
	d	1	2	4	20	3		(1H2 - tube OK above 30 on meter scale)						
1B4	2	3	1	24		2-3-10	1H4		2	3	2	24	3-5	
1B5	t	1	3	1	10	2-5	1H6	d	1	3	2	22	4	
	d	1	3	1	18	3	d	1	3	2	22		5	
	d	1	3	1	18	4	t	1	3	2	10		3-6	
1B7	to	2	2	2	20	3-4-5-6-10	1J5		2	3	2	20	3-4-5	
	t	2	2	2	24	5-6	1J6	t	2	3	2	20	3-4	
1C3	2	2	1	20		2-6-4	t	2	3	2	20		5-6	
	(1C3 - Ignore Glow on 2)							1L4		2	2	7	22	2-3-6
	(1C3 - Cont. Test - 2-6)								(1L4 - Cont. Test - 1-5)					

Tube	A	B	C	D	Cath. Short	Test
1L6	2	2	1	25		2-3-4-5-6
1LA4	2	2	1	22		2-3-6
1LA6	to	1	2	1	10	2-3-4-5-6
t	1	2	1	12		3-4
1LB4	2	2	1	20		2-3-6
1LC5	1	2	1	10		2-3-4-6
(1LC5 - Cont. Test 5-8)						
1LC6	to	1	2	1	10	2-3-4-5-6
t	1	2	1	12		3-4
1LD5	pe	1	2	1	10	2-3-6
d	1	2	1	18		4
1LE3	2	2	1	22		2-6
1LF3	2	2	1	22		2-6
1LG5	2	2	1	20		2-3-4-6
(1LG5 - Cont. Test 5-8)						
1LH4	t	1	2	1	10	2-6
d	1	2	1	18		4
1LN5	2	2	1	20		2-3-4-6
(1LN5 - Cont. Test - 5-8)						
1M3	e	3	2	4	0	1-8
(1M3 - See instructions for eye test)						
1N3	e	3	2	4	0	1-8
(1N3 - See instructions for eye test)						
1N5	1	2	2	10		3-4-10
1N6	pe	2	2	2	22	3-4-5
d	1	2	2	60		6
1P5	1	2	2	10		3-4-10
1Q5	2	2	2	20		3-4-5
1Q6	pe	2	2	4	24	2-7-8
d	1	2	4	18		6
1SA6	2	2	2	20		3-4-6-8
1SB6	pe	1	2	2	10	3-4-8
d	1	2	2	30		5
1T5	2	2	2	20		2-3-6
1T6	pe	2	2	4	22	1-3-8
d	1	2	4	20		6
1U6	to	2	2	1	24	2-3-4-5-6
t	2	2	1	30		3-4
1V	3	8	1	20	3	2
1V5	2	3	4	22		2-7-8
1V6	t	2	2	4	24	5-6
pe	2	2	4	20		1-2-3
1W4	2	2	1	22		2-3-6
1W5	2	2	4	22		2-7-8
1Z2	4	2	2-5-7	60		10
(1Z2 - Cont. Test - 1-2-3-4-5-6-7)						
2A4	3	4	2	22		3-5
2A5	3	4	1	24	5	2-3-4
2A6	t	3	4	1	22	5
d	1	4	1	16		3
d	1	4	1	16		4
2A7	t	2	4	1	16	6
t	2	4	1	16		2-3-4-5-10
t	2	4	1	16		4-5
2AF4	2	4	3	14	5	1-7-2-6
(2AF4 - Ignore Glow on 1-2)						
(2AF4 - Cont. Test - 1-2-6-7)						
2B5	t	2	2	2-7	20	6-8
t	2	2	2-7	20		1-3
(2B5 - Cont. Test - 4-5)						
2B7S	pe	3	4	1	32	6
d	1	4	1	18		2-3-10
d	1	4	1	18		4
2C51	t	2	8	1	14	2
t	2	8	1	14	8	3-4
t	2	8	1	14		6-7

Tube	A	B	C	D	Cath. Short	Test
2C52	t	2	11	7	16	3
t	2	11	7	16	6	1-2
2C53	3	8	2	20	8	4-5
2D21	3	8	3	16	2	5-10
(2D21 - Ignore Glow on 5)						1-5-7-6
(2D21 - Cont. Test - 5-7)						
2E5	t	2	4	1	22	5
e	4	4	1	0		2-3
(2E5 - See Instructions for Eye Test)						2-4
2E24	3	4	2-7	20		3-5-10
(2E24 - Cont. Test - 1-4-6)						
2E25	3	8	2	24		4-5-8-10
2E26	3	8	2	18	1-4-6	3-5-10
(2E26 - Cont. Test - 1-4-6)						
2E30	3	5	7	22		1-5-6
(2E30 - Cont. Test - 3-4)						
2E31	2	2	3	20		1-2-4
2E32	2	2	3	20		1-2-4
2E35	2	2	3	22		1-2-4
2E36	2	2	3	22		1-2-4
2E41	pe	2	2	4	22	1-2-5
d	4	2	4	66		3
2E42	pe	2	2	4	22	1-2-5
d	4	2	4	66		3
2EA5	2	4	3	12	2-7	1-5-6
(2EA5 - Cont. Test - 2-7)						
2EN5	d	1	3	3	10	5
d	1	3	3	10		7
2ER5	2	4	3	12	1-7	2
(2ER5 - Cont. Test-1-7)						2-5-6
2ES5	2	3	3	10	1-7	2-5-6
(2ES5 - Cont. Test-1-7)						
2F7	t	2	4	1	30	6
pe	2	4	1	18		4-5
2G5	t	2	4	1	22	5
e	4	4	1	0		2-3-10
(2G5 - See Instructions for Eye Test)						2-4
2G21	t	2	2	4	20	
he	2	2	4	20		1-3
2G22	t	2	2	4	20	
to	2	2	4	20		1-2-3-5-6
2T4	2	4	3	12	5	1-7-2-6
(2T4 - Ignore Glow on 1-2)						
(2T4 - Cont. Test - 1-2-6-7)						
2X2	4	4	1	28		10
3A2	4	5	2-5-8	34		10
(3A2 - Cont. Test - 1-2-4-5-6-8-9)						
3A4	2	2	5	20		2-6-3-4
(3A4 - Ignore Glow on 2)						
(3A4 - Cont. Test - 1-2-6-7)						
3A5	t	2	2	4	18	
t	2	2	4	18		2-3
(3A5 - Cont. Test - 1-7)						5-6
3A8	d	1	2	1	16	
t	1	2	1	10		8
pe	1	2	1	10		5-6
(3A8 - Cont. Test - 2-7)						3-4-10
3AF4	2	5	3	12	5	1-7-2-6
(3AF4 - Ignore Glow on 1-2)						
(3AF4 - Cont. Test - 1-7-2-6)						
3B2	4	5	2	60		10
3B4	3	2	2-6	22		1-3-7
(3B4 - Cont. Test - 4-5)						
3B5	2	2	8	18		3-4-5
(3B5 - Cont. Test - 2-7)						

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test		
3B7	t	3	2	4	28	6-7	6AN4	2	8	3	12	5	1-7-2-6		
	t	3	2	4	28	2-3									
	(3B7 - Cont. Test - 1-8)														
3BA6	2	5	3	14	7	1-2-5-6									
3BX6	2	5	4	12	1-3	2-7-8	6AN5	3	8	3	48	2-7	1-5-6		
	(3BX6 - Cont. Test - 1-3)														
3C4	2	2	5	18		2-3-6	6AN6	d	1	8	1	12	6	2	
3C5	2	2	8	20		3-4-5		d	1	8	1	12		3	
	(3C5 - Cont. Test - 2-7)							d	1	8	1	12		4	
3C6	t	2	2	7	22	5-6		d	1	8	1	12		5	
	t	2	2	7	22	3-4	6AZ5	d	1	8	3	10	7	8	
	(3C6 - Cont. Test - 1-8)							d	1	8	3	10	2	1	
3CS6	2	5	3	14	2	1-5-6-7	6AZ6	d	1	8	3	10	4	2	
3E6	2	2	5	18		2-3-4-6		d	1	8	3	10	5	7	
	(3E6 - Cont. Test - 1-8)							6B4	3	8	2	20		3-5	
3EA5	2	4	3	12	2-7	1-5-6	6B5	i	3	8	1	42	5	3-4	
	(3EA5 - Cont. Test - 2-7)								o	3	8	1	28		2-4
3LF4	2	2	7	18		2-3-6	6B6	t	3	8	2	22	8	3-10	
	(3LF4 - Cont. Test - 1-8)								d	1	8	2	16		4
4A6	t	2	3	8	20	3-4		d	1	8	2	16		5	
	t	2	3	8	20	5-6	6B7	pe	3	8	1	32	6	2-3-10	
	(4A6 - Cont. Test - 2-7)								d	1	8	1	16		5
4BA6	2	6	3	14	7	1-2-5-6		d	1	8	1	16		4	
4CM4	2	5	4	12	3-7	1-2-6-8-9	6B8	pe	3	8	2	32	8	3-6-10	
	(4CM4 - Ignore Glow on 1-2-6-8)								d	1	8	2	16		4
	(4CM4 - Plate Short Test - Throw 1-9 Together)								d	1	8	2	16		5
	(4CM4 - Grid Short Test - Throw 2-6-8 Together)							6BA5	2	8	4	14	2		1-3-5
	(4CM4 - Cathode Short Test - Throw 3-7 Together)							6BA6	2	8	3	12	7		1-2-5-6
	(4CM4 - Cont. Test - 1-2-3-6-7-8-9)							6BA7	t	3	8	4	16	3	1-2-6-7-9
4CS6	2	6	3	14		1-5-6-7		t	3	8	4	16		1-2	
4DL4	2	6	4	16	2	1-3-6-7-8-9	6BD4A	2	8	2	32	1		5-10	
	(4DL4 - Ignore Glow on 1-3-6-7-8)							6BD5	2	8	2	12	3		1-5-8
	(4DL4 - Cont. Test - 1-3-6-7-9)							6BD7A	t	3	8	4	18	3	1-2
4HR8	2	6	4	18	3	1-6-9		d	1	8	4	20		8	
	(4HR8 - Cont. Test - 2-7)								d	1	8	4	20		6
5A6	2	4	9	16		1-3-8-6-7			(6BD7A - Cont. Test - 7-9)						
	(5A6 - Ignore Glow on 3)							6BF7	t	2	8	3	14	5	7-8
	(5A6 - Cont. Test - 4-5-3-8)								t	2	8	3	14	4	1-2
6A3	3	8	1	20		2-3	6BG7	t	2	8	3	14	5	7-8	
6A4	3	8	1	24		2-3-4		t	2	8	3	14	4	1-2	
6A5	3	5	8	16		3-5	6BL4	3	8	7	12	3		1-5	
	(6A5 - Cont. Test - 2-7)								(6BL4 - Ignore Glow on 1)						
6A6	t	3	8	1	2	4			(6BL4 - May show short on 1-5)						
	t	3	8	1	2	5-6	6C6	2	8	1	16	5		2-3-4-10	
6A7	to	2	8	1	16	6	2-3-4-5-10	6C7	t	3	8	1	24	6	2-10
	t	2	8	1	16	4-5			d	1	8	1	16		4
6A8	to	2	8	2	16	8	3-4-5-6-10		d	1	8	1	16		5
	t	2	8	2	16	5-6		6C8	t	2	8	2	16	4	3-10
6AB5	t	2	8	1	20	5	2-3		t	2	8	2	16	8	5-6
	e	4	8	1	0	2-4		6CB5	3	8	2	16	3-6	1-8-4-5-10	
	(6AB5 - See Instructions for Eye Test)								(6CB5 - Ignore Glow on 1-4)						
6AB7	3	8	2	16	5	3-4-6-8			(6CB5 - Cont. Test - 1-2-3-5-6-8)						
6AB8	pe	3	8	4	18	3	6-7-8-9	6CD7	4	8	2	0	8		3-6-5
	t	3	8	4	22	1-2			(6CD7 - See Instructions for Eye Test)						
6AD4	2	7	3	8	5	1-2		6CM4	2	8	4	16	37		1-2-6-8-9
6AE5	3	8	2	18	8	3-5			(6CM4 - Ignore Glow on 1-2-6-8)						
6AE6	t	2	8	2	16	8	3-5		(6CM4 - Cont. Test - all pins)						
	t	2	8	2	16	4-5		6CM5	3	8	2	16	38		1-4-5-10
6AE7	t	2	8	2	16	8	3-6		(6CM5 - Ignore Glow on 1)						
	t	2	8	2	16	5	3-4		(6CM5 - Cont. Test - 3-8)						
6AK4	2	8	3	12	5	1-8		6CU7	t	3	8	1	18	7	3-4
									os	3	8	1	20		2-4
									he	3	8	1	16		2-5-6
								6D4	3	8	3	16	5		1-7
								6D5	3	8	2	22	8		3-5

Tube	A	B	C	D	Cath. Short	Test
6D6	3	8	1	22	5	2-3-4-10
6D7	2	8	1	16	6	2-3-4-10
6D8	to	2	8	2	16	8 3-4-5-6-10
	t	2	8	2	16	5-6
6DA5	t	2	8	4	22	2 1-7
	e	4	8	4	0	
(6DA5 - Cont. Test - 3-8-9)						
(6DA5 - Throw 7 to Test, Then 3-8-9 Together to Test - See Instructions for Eye Test)						
6DA6	2	8	4	14	3	2-7-8-9
(6DA6 - Cont. Test - 1-6)						
6DL4	2	8	4	16	2	1-3-6-7-8-9
(6DL4 - Ignore Glow on 1-3-6-7-8)						
(6DL4 - Cont. Test - 1-3-6-7-9)						
6DY5	2	8	4	16	3	2-7-9
6E6	t	3	8	1	24	4 2-3
	t	3	8	1	24	5-6
6E7	2	8	1	16	6	2-3-4-10
6F4	2	8	1	14	5	2-3-7-8
(6F4 - Ignore Glow on 2-7)						
(6F4 - Cont. Test - 2-3-7-8)						
6F5	3	8	2	20	8	4-10
6F7	t	2	8	1	30	6 4-5
	pe	2	8	1	18	2-3-10
6F8	t	2	8	2	14	4 3-10
	t	2	8	2	14	8 5-6
6FA7	d	1	8	4	18	6 3
	te	2	8	4	14	1-7-8-9
6FG5	2	8	3	12	2-7	1-5-6
(6FG5 - Cont. Test - 2-7)						
6FG6	t	2	8	5	22	3 1-9
	e	4	8	5	0	
(6FG6 - Cont. Test - 2-6-8)						
(6FG6 - Throw 7 to Test, Then 2-6-8 Together to Test - See Instructions for Eye Test)						
6FG7	t	2	8	4	10	3-8 1-2
	pe	2	8	4	10	6-7-9
(6FG7 - Cont. Test - 3-8)						
6FH6	2	8	2	12	8	4-5-10
6FH8	t	2	8	5	10	2-3
	te	2	8	5	10	6-7-9
	te	2	8	5	10	6-7-8
	te	2	8	5	10	1-6-7
6G6	3	8	2	22	8	3-4-5
6GM8	t	2	8	4	14	8 6-7
	t	2	8	4	14	3 1-2
6GV7	t	2	8	4	16	6-8 1-9
	pe	2	8	4	16	2-3-7
(6GV7 - Cont. Test - 6-8)						
6GW8	t	2	8	4	18	2 1-9
	pe	2	8	4	18	7 3-6-8
6GX8	t	2	8	4	18	9 1-8
	e	4	8	4	0	3 6-7
(6GX8 - See Instructions for Eye Test)						
6H5	t	2	8	1	20	5 2-3
	e	4	8	1	0	2-4
(6H5 - See Instructions for Eye Test)						
6H6	d	1	8	2	10	8 3
	d	1	8	2	10	4 5
6HC8	t	2	8	4	14	8 1-9
	pe	2	8	4	14	2 3-6-7
6HU6	t	2	8	4	22	3 1-9
	e	4	8	4	0	2-6-7-8
(6HU6 - Ignore Glow on 2-6-7 - Cont. Test - 2-6-8)						
(6HU6 - See Instructions for Eye Test)						

Tube	A	B	C	D	Cath. Short	Test
6HU8	pe	2	8	4	18	7 1-2-3
	pe	2	8	4	18	6-8-9
6J4	2	8	3	14	2	1-5-6-7
(6J4 - Ignore Glow on 1-5)						
6J7	2	8	2	16	8	3-4-5-10
6J8	t	2	8	2	18	8 5-6
	he	2	8	2	14	3-4-10
6JW8	t	2	8	4	18	8 1-9
	pe	2	8	4	16	7 2-3-6
6K5	1	8	2	8	8	3-10
6K7	2	8	2	16	8	3-4-5-10
6K8	t	1	8	2	8	8 5-6
	he	1	8	2	8	3-4-5-10
6L5	2	8	2	16	8	3-5
6L7	2	8	2	16	8	3-4-5-10
6LX8	t	2	8	4	16	8 1-9
	pe	2	8	4	16	7 2-3-6
6M3	2	8	8	12	10	3-5-7
(6M3 - Ignore Glow on 3-5)						
(6M3 - Cont. Test - 1-2-3-5-7)						
6N4	3	8	3	16	2-6	1-7-5
(6N4 - Ignore Glow on 1)						
(6N4 - Cont. Test - 1-2-6-7)						
6N5	t	3	8	1	32	5 2-3
	e	4	8	1	0	2-4
(6N5 - See Instructions for Eye Test)						
6N6	3	8	2	24	8	3-4-5
6N7	t	3	8	2	22	8 3-4
	t	3	8	2	22	5-6
6N8	pe	3	8	5	16	3 1-2-6-9
	d	1	8	5	14	7
	d	1	8	5	12	8
6P5	2	8	2	16	8	3-5
6P7	t	3	8	2	62	8 6-7
	pe	3	8	2	30	4-5-10
6Q4	3	8	1	12	5	2-3-7-8
(6Q4 - Ignore Glow on 2-7)						
(6Q4 - Cont. Test - 2-3-7-8)						
6Q7	t	3	8	2	20	8 3-10
	d	1	8	2	16	4
	d	1	8	2	16	5
6R6	3	8	2	24	8	3-5-10
6R7	t	3	8	2	22	8 3-10
	d	1	8	2	16	4
	d	1	8	2	16	5
6S2	4	8	2-5-8	34		10
(6S2 - Cont. Test - 1-4-6-9)						
6S7	2	8	2	16	8	3-4-5-10
6S8	t	1	8	7	8	2 6-10
	d	1	8	7	16	5 3
	d	1	8	7	16	4
	d	1	8	7	16	1
6SC7	t	3	8	7	24	6 4-5
	t	3	8	7	24	2-3
6SD7	3	8	2	16	5	3-4-6-8
6SF5	1	8	7	8	2	3-5
6SF7	pe	3	8	7	24	3 2-4-6
	d	1	8	7	16	5
6SG7	3	8	2	16	3-5	4-6-8
(6SG7 - Cont. Test - 3-5)						
6SH7	2	8	2	12	3-5	4-6-8
(6SH7 - Cont. Test - 3-5)						
6SJ7	2	8	2	16	5	3-4-6-8
6SK7	3	8	2	20	5	3-4-6-8

Tube	A	B	C	D	Cath. Short	Test	
6SR7	t	2	8	7	16	3	2-6
	d	1	8	7	16		5
	d	1	8	7	16		4
6SS7		3	8	2	22	5	3-4-6-8
6ST7	t	2	8	7	16	3	2-6
	d	1	8	7	16		5
	d	1	8	7	16		4
6SU7	t	2	8	7	16	3	1-2
	t	2	8	7	16	6	4-5
6SV7	pe	2	8	7	14	3	2-4-6
	d	2	8	7	16		5
6SZ7	t	1	8	7	8	3	2-6
	d	1	8	7	16		5
	d	1	8	7	16		4
6T4		2	8	3	12	5	1-7-2-6
	(6T4 - Ignore Glow on 1-2)						
	(6T4 - Cont. Test - 1-2-6-7)						
6T5	t	2	8	1	20	5	2-3
	e	4	8	1	0		2-4
	(6T5 - See Instructions for Eye Test)						
6T7	t	2	8	2	16	8	3-10
	d	1	8	2	16		5
	d	1	8	2	16		4
6U4		3	8	7	16	3	5
6U6		3	8	2	18	8	3-4-5
6U7		2	8	2	16	8	3-4-5-10
6V4	p	4	8	4	14	3	1
	p	4	8	4	14		7
6V7	t	3	8	2	28	8	3-10
	d	1	8	2	16		4
	d	1	8	2	16		5
6V8	t	2	8	4	16	3	1-6
	d	1	8	4	12		9
	d	1	8	4	8	8	7
	d	1	8	4	8		2
6W5	p	4	8	2	14	8	3
	p	4	8	2	14		5
6W7		1	8	2	8	8	3-4-5-10
6X2		4	8	2	30		10
	(6X2 - Connect 2 bottom leads to contacts 1 and 2 of octal socket. Top lead connect to grid cap.)						
6Y5	p	4	8	1	14	4	3
	p	4	8	1	14		5
6Y6		3	8	2	16	8	3-4-5
6Y7	t	3	8	2	20	8	3-4
	t	3	8	2	20		5-6
6Z3		3	8	1	18	3	2
6Z5	p	4	8	1	14	4	3
	p	4	8	1	14		5
	(6Z5 - Cont. Test - 2-6)						
6Z6	p	4	8	2	14	8	3
	p	4	8	2	14	4	5
6Z7	t	3	8	2	20	8	3-4
	t	3	8	2	20		5-6
6ZY5	p	4	8	2	14	8	3
	p	4	8	2	14		5
7A4		3	8	1	18	7	2-6
7A5		3	8	1	16	7	2-3-6
7A6	d	1	8	1	10	2	3
	d	1	8	1	10	7	6
7A7		3	8	1	20	7	2-3-4-6
7A8		2	8	1	16	7	2-3-4-5-6
7AD7		3	8	1	16	7	2-3-4-6

Tube	A	B	C	D	Cath. Short	Test	
7AF7	t	2	8	1	16	2	3-4
	t	2	8	1	16	7	5-6
7AG7		2	8	1	14	7	2-3-4-6
7AH7		2	8	1	14	7	2-3-4-6
7AJ7		3	8	1	16	7	2-3-4-6
7AK7		3	8	1	16	7	2-3-4-6
7AN7	t	2	9	4	12	7-8	6-9
	t	2	9	4	12	1	2-3
	(7AN7 - Cont. Test - 7-8)						
7B4		1	8	1	8	7	2-6
7B5		3	8	1	24	7	2-3-6
7B6	t	2	8	1	16	4-7	2-3
	d	1	8	1	16		5
	d	1	8	1	16		6
	(7B6 - Cont. Test - 4-7)						
7B7		2	8	1	16	7	2-3-4-6
7B8		2	8	1	14	7	2-3-4-5-6
7C4	d	1	8	1	10	7	4
7C5		3	8	1	18	7	2-3-6
7C6	t	3	8	1	26	4-7	2-3
	d	1	8	1	16		5
	d	1	8	1	16		6
	(7C6 - Cont. Test - 4-7)						
7C7		1	8	1	8	7	2-3-4-6
7DJ8	t	2	8	4	12	8	6-7
	t	2	8	4	12	3	1-2
7E5		2	8	2	14	4-6	1-5-3-7
	(7E5 - Ignore Glow on 1-3)						
	(7E5 - Cont. Test - 1-3-4-5-6-7)						
7E6	t	2	8	1	16	4-7	2-3
	d	1	8	1	18		5
	d	1	8	1	18		6
	(7E6 - Cont. Test - 4-7)						
7E7	pe	3	8	1	26	7	2-5-6
	d	1	8	1	18		3
	d	1	8	1	18		4
7ES8	t	2	9	4	10	8	6-7
	t	2	9	4	10	3	1-2
7F7	t	1	8	1	8	2	3-4
	t	1	8	1	8	7	5-6
7F8	t	2	8	2	14	4	1-3
	t	2	8	2	14	5	6-8
7G7		2	8	1	14	7	2-3-4-6
7G8	s	2	8	1	14	6	3-5-7
	s	2	8	1	14		2-3-4
7GV7	t	2	9	4	16	6-8	1-9
	pe	2	9	4	16		2-3-7
	(7GV7 - Cont. Test - 6-8)						
7H7		2	8	1	14	7	2-3-4-6
7J7	h	2	8	1	14	7	2-5-6
	t	2	8	1	16		3-4
7K7	t	1	8	1	8	2	3-4
	d	1	8	1	18	7	5
	d	1	8	1	18		6
7L7		2	8	1	14	7	2-3-4-6
7N7	t	2	8	1	16	2	3-4
	t	2	8	1	16	7	5-6
7Q7		2	8	1	14	7	2-3-4-5-6
7R7	pe	2	8	1	14	7	2-5-6
	d	1	8	1	16		3
	d	1	8	1	16		4
7S7	he	2	8	1	14	7	2-5-6
	t	2	8	1	18		3-4
7T7		2	8	1	14	7	2-3-4-6

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test		
7V7	3	8	1	16	7	2-3-4-6	12BW4	p	4	11	4	14	9	7	
7W7	2	8	1	14	4-7	2-3-5-6	p	4	11	4	14		1		
	(7W7 - Cont. Test - 4-7)						12BX6	2	11	4	14	1-3	2-7-8		
7X6	p	4	8	1	12	2	3	(12BX6 - Cont. Test 1-3)							
	p	4	8	1	12	7	6	12DK7	te	2	11	4	12	2	1-8-3-7
7X7	t	1	8	1	10	4	2-3	d	1	11	4	12		6	
	d	1	8	1	16	4	5	d	1	11	4	12		9	
	d	1	8	1	16	7	6	(12DK7 - Ignore Glow on 1)							
7Y4	p	4	8	1	14	7	3	(12DK7 - May Show Short on 1-8)							
	p	4	8	1	14		6	12DL8	te	1	11	4	8	2	3-6-7
7Z4	p	4	8	1	14	7	3	d	1	11	4	12	8	1	
	p	4	8	1	14		6	d	1	11	4	12		9	
8A8	t	2	9	4	14	8	1-9	12DT8	t	2	11	4	14	8	6-7
	pe	2	9	4	14	7	2-3-6	t	2	11	4	14	3	1-2	
8SN7	t	2	9	7	16	3	1-2	12EH5	2	11	3	14	1	2-5-6-7	
	t	2	9	7	16	6	4-5	(12EH5 - Ignore Glow on 2)							
9JW8	t	2	10	4	18	8	1-9	(12EH5 - Cont. Test -2-5)							
	pe	2	10	4	16	7	2-3-6	12EH8	pe	3	11	4	14	1-6	7-8-9
10		3	9	1	32		2-3	t	3	11	4	14		2-3	
10C8	t	2	10	4	14	3	1-2	(12EH8 - Cont. Test - 1-6)							
	pe	2	10	4	14	9	6-7-8	12EQ7	d	1	11	4	20	3	8
11C5		3	11	3	16	1	2-5-6-7	pe	2	11	4	14		1-2-6-7	
	(11C5 - Ignore Glow on 2)							12F5		1	11	2	8	8	4-10
	(11C5 - Cont. Test - 2-5)							12FQ8	pe	2	11	4	14	9	6-7-8
12A		3	7	1	20		2-3	pe	2	11	4	14		1-2-3	
12A4		2	8	3	12	1	2-7-9	12G4	3	11	3	18	7	1-5-6	
	(12A4 - Ignore Glow on 2)							(12G4 - Ignore Glow on 1)							
	(12A4 - Cont. Test - 2-4-5-7)							(12G4 - Cont. Test - 1-5)							
12A5		3	8	6	22	5	2-3-4	12G8	t	2	8	9	14	7	6-8
	(12A5 - Cont. Test - 1-7)							t	2	8	9	14	2	1-3	
12A6		3	11	2	22	8	3-4-5	(12G8 - Cont. Test - 4-5)							
12A7	pe	2	11	1	18	6	2-3-10	12GA6		2	11	3	14	2	1-5-6-7
	r	3	11	1	18	4	5	12GC6		2	11	2	14	3	4-5-8-9
12A8		2	11	2	16	8	3-4-5-6-10	(12GC6 - Ignore Glow on 4)							
	t	2	11	2	16		5-6	(12GC6 - Cont. Test - 4-8)							
12AB5		3	11	4	20	7	1-8-3-6-9	12H4		3	8	2	18	7	1-5-6
	(12AB5 - Ignore Glow on 1-3)							(12H4 - Ignore Glow on 1)							
	(12AB5 - Cont. Test - 1-3-6-8)							(12H4 - Cont. Test - 1-3-4-5)							
12AC5		2	11	1	14	3-7	2-5-6	12H6	d	1	11	2	10	4	3
	(12AC5 - Cont. Test - 3-7)							d	1	11	2	10	8	5	
12AC6		3	11	3	20	7	1-2-5-6	12J5		2	11	2	16	8	3-5
12AD7	t	3	8	9	20	8	6-7	12J7		2	11	2	16	8	3-4-5-10
	t	3	8	9	20	3	1-2	12J8	te	3	11	4	16	2	1-3-6
	(12AD7 - Cont. Test - 4-5)							d	1	11	4	8	7	9	
12AF3		1	11	4	10	10	2-9	d	1	11	4	8		8	
	(12AF3 - Ignore Glow on 2)							12K5		1	11	3	8	1	2-5-6-7
	(12AF3 - Cont. Test - 2-9)							(12K5 - Ignore Glow on 5)							
12AH7	t	3	11	7	22	2	1-3	(12K5 - Cont. Test - 5-6)							
	t	3	11	7	22	4	5-6	12K7		2	11	2	16	8	3-4-5-10
12AJ6	t	2	11	3	16	2	1-7	12K8	t	3	11	2	18	8	5-6
	d	1	11	3	12		6	h	3	11	2	18		3-4-5-10	
	d	1	11	3	16		5	12L6		3	11	2	18	8	3-4-5
12AL5	d	1	11	3	8	1	7	12L8	pe	3	11	6	22	2	3-4-5
	d	1	11	3	8	5	2	pe	3	11	6	22		1-5-8	
12AV5		3	11	2	18	3	1-5-8	12Q7	t	3	11	2	22	8	3-10
12AV6	t	3	11	3	24	2	1-7	d	1	11	2	16		4	
	d	1	11	3	16		6	d	1	11	2	16		5	
	d	1	11	3	16		5	12S8	t	3	11	7	22	2	6-10
12AW6		2	11	3	14	2	1-5-6-7	d	1	11	7	16	5	3	
12B7		2	11	1	16	7	2-3-4-6	d	1	11	7	16		4	
12B8	t	3	11	2	18	6	5-8	d	1	11	7	16		1	
	pe	2	11	2	14	1	3-4-10	(12S8 - May show short on 2)							
12BA7		3	11	4	16	3	1-2-6-7-9	12SA7		3	11	2	20	6	3-4-5-8

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test		
12SC7	t	3	11	7	22	6	14R7	pe	2	11	1	14	7	2-5-6	
	t	3	11	7	22			d	1	11	1	16		4	
12SF5		1	11	7	8	2		d	1	11	1	16		3	
12SF7	pe	3	11	7	24	3	14S7	t	2	11	1	16	7	3-4	
	d	1	11	7	16			he	2	11	1	14		2-5-6	
12SG7		3	11	2	18	3-5	14W7		2	11	1	14	4-7	2-3-5	
		(12SG7 - Cont. Test - 3-5)							(14W7 - Cont. Test 4-7)						
12SH7		2	11	2	14	3-5	14X7	t	1	11	1	8	4	2-3	
		(12SH7 - Cont. Test - 3-5)							d	1	11	1	14		5
12SJ7		2	11	2	14	5		d	1	11	1	14	7	6	
12SK7		3	11	2	20	5	14Y4	p	4	11	1	14	7	3	
12SL7	t	3	11	7	22	6		p	4	11	1	14		6	
	t	3	11	7	22	3	15		2	3	1	24	4	2-3-10	
12SR7	t	2	11	7	16	3	15DQ8	t	2	11	4	16	3	1-2	
	d	1	11	7	18			pe	2	11	4	16	1	6-8-9	
	d	1	11	7	18		17		3	11	1	24	4	2-3	
12SW7	t	3	11	7	26	3	17C5		3	12	3	16	1	2-5-6-7	
	d	1	11	7	16			(17C5 - Ignore Glow on 2)							
	d	1	11	7	16			(17C5 - Cont. Test - 2-5)							
12Z3		4	11	1	12	3	17C8	pe	2	12	4	16	3	1-2-6-9	
12Z5	p	4	8	4	14	3		d	1	12	4	14		8	
	p	4	8	4	14	5		d	1	12	4	14		7	
		(12Z5 - Cont. Test - 1-7)						17CA5		3	12	3	16	1	2-5-6-7
13CM5		3	11	2	16	3-8		(17CA5 - Ignore Glow on 2)							
		(13CM5 - Ignore Glow on 1)							(17CA5 - Cont. Test 2-5)						
		(13CM5 - Cont. Test - 3-8)					1-4-5-10	18		2	11	1	16	5	2-3-4
14A4		2	11	1	16	7	18GV8	t	2	12	4	14	3	1-2	
14A5		3	11	1	22	7		pe	3	12	4	14	8	6-7-9	
14A7		3	11	1	20	7	19	t	3	3	1	30		2-3	
14AF7	t	2	11	1	16	7		t	3	3	1	30		4-5	
	t	2	11	1	16	2	19AQ5		3	12	3	20	2	1-7-5-6	
14B6	t	1	11	1	8	4-7		(19AQ5 - Ignore Glow on 1)							
	d	1	11	1	16			(19AQ5 - Cont. Test - 1-7)							
	d	1	11	1	16		19X8	t	2	12	4	14	6	2-3	
		(14B6 - Cont. Test - 4-7)							pe	2	12	4	14		1-7-8-9
14B8		2	11	1	14	7			2	5	1	24		2-3	
14C5		3	11	1	18	7	20		2	5	1	32		2-3-10	
14C7		2	11	1	14	7	22		2	5	1	32		2-3-10	
14E6	t	3	11	1	24		22AL3		2	12	4	12	10	3-8-9	
	d	1	11	1	18			(22AL3 - Ignore Glow on 3-8)							
	d	1	11	1	18			(22AL3 - Cont. Test - All pins)							
		(14E6 - Cont. Test 4-7)						24		3	4	1	24	5	2-3-10
14E7	pe	3	11	1	26	7	25A6		3	13	2	20	8	3-4-5	
	d	1	11	1	18			pe	2	13	2	16	8	3-4-5	
	d	1	11	1	18			r	3	13	2	16	1	6	
14F7	t	1	11	1	8	7	25AC5		3	13	2	22	8	3-5	
	t	1	11	1	8	2	25AV5		3	13	2	16	3	1-5-8	
14F8	t	2	11	2	14	5	25B5		3	13	1	26	5	2-3-4	
	t	2	11	2	14	4	25B6		3	13	2	18	8	3-4-5	
14GT8	t	2	11	4	16	7	25B8	t	2	13	2	14	6	5-8	
	d	1	11	4	8	3		pe	3	13	2	16	1	3-4-10	
	d	1	11	4	8	1	25C5		3	13	3	16	1	2-5-6-7	
14H7		2	11	1	14	7		(25C5 - Ignore Glow on 2)							
14J7	t	2	11	1	16	7		(25C5 - Cont. Test - 2-5)							
	h	2	11	1	14		25C6		3	13	2	16	8	3-4-5	
14K7	t	2	11	1	16	7	25CA5		3	13	3	16	1	2-5-6-7	
	he	2	11	1	14			(25CA5 - Ignore Glow on 2)							
14L7	t	2	11	1	16	7		(25CA5 - Cont. Test - 2-5)							
	d	1	11	1	18		25Y5		4	13	1	14	4	5	
	d	1	11	1	18			p	4	13	1	14	3	2	
14N7	t	1	11	1	8	7	25Z3		3	13	2	18	8	5	
	t	1	11	1	8	2	25Z4		3	13	2	18	8	5	
14Q7		2	11	1	14	7	25Z5	p	4	13	1	12	4	5	
		(14Q7 - Cont. Test - 2-3-4-5-6)							p	4	13	1	12	3	2
		(14Q7 - Cont. Test - 2-3-4-5-6)						25Z6	p	4	13	2	12	8	5
		(14Q7 - Cont. Test - 2-3-4-5-6)							p	4	13	2	12	4	3

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test			
26	2	2	1	20		2-3	46	3	4	1	24		2-3-5			
26A6	3	13	3	16	7	1-2-5-6	47	3	4	1	24		2-3-5			
26A7	pe	2	13	6	14	2	1-5-8	48	3	14	1	18	5	2-3-4		
	pe	2	13	6	14		3-4-5	49	2	3	1	22		2-3-5		
26BK6	t	3	13	3	18	2	1-7	50	3	9	1	32		2-3		
	d	1	13	3	12		6	50A5	3	15	1	16	7	2-3-6		
	d	1	13	3	12		5	50B5	3	15	3	16	2	1-7-5-6		
26C6	t	2	13	3	16	2	1-7		(50B5 - Ignore Glow on 1)							
	d	1	13	3	18		6		(50B5 - Cont. Test - 1-7)							
	d	1	13	3	18		5	50BK5	2	15	4	14	6	3-7-1-8		
26D6	to	2	13	3	14	2	1-5-6-7		(50BK5 - Ignore Glow on 3)							
	t	2	13	3	14		1-6		(50BK5 - Cont. Test - 3-7)							
26E6		3	13	2	18	8	3-4-5	50C6	2	15	2	12	8	3-4-5		
26Z5	p	4	11	9	14	8	6	50X6	p	4	15	1	12	2	3	
	p	4	11	9	14	3	1		p	4	15	1	12	7	6	
	(26Z5 - Cont. Test - 4-5)								50Y6	p	3	15	2	16	4	3
27		2	4	1	18	5	2-3		p	3	15	2	16	8	8	
28D7	s	2	13	1	14	4	3-5-7	50Y7	p	3	15	2	16	4	3	
	s	2	13	1	14		2-3-4		p	3	15	2	16	8	5	
28Z5	p	4	11	4	14	7	6		(50Y7 - Cont. Test - 6-7)							
	p	4	11	4	14		3	50Z7	p	3	15	2	18	4	3	
	(28Z5 - Cont. Test - 1-8)								p	3	15	2	18	8	5	
30		2	3	1	24		2-3		(50Z7 - Cont. Test - 6-7)							
31		2	3	1	20		2-3	52		3	8	1	20		2-3-4	
31A3		3	14	1	16		2	53	t	3	4	1	24	4	2-3	
32		2	3	1	20		2-3-10		t	3	4	1	24		5-6	
32ET5		2	14	3	16		5-6-7	55	t	2	4	1	18	5	2-10	
	(32ET5 - Cont. Test-2-5)								d	1	4	1	16		3	
32L7	a	3	14	2	18	8	3-4-5		d	1	4	1	16		4	
	r	3	14	2	18	1	6	56		2	4	1	16	5	2-3	
33		3	3	1	28		2-3-5	56A		2	8	1	16	4	2-3	
34		2	3	1	22		2-3-10	57		2	4	1	16	5	2-3-4-10	
34GD5		2	14	3	14	1	2-5-6-7	57A		2	8	1	16	5	2-3-4-10	
	(34GD5 - Ignore Glow on 2)							58		3	4	1	22	5	2-3-4-10	
	(34GD5 - Cont. Test - 2-5)							58A		3	8	1	22	5	2-3-4-10	
35		2	4	1	18	5	2-3-10	59		3	4	1	20	6	2-3-4-5	
35A5		3	14	1	20	7	2-3-6	60FX5		2	15	3	14	1	2-5-6-7	
35Y4		3	14	8	16	7	2		(60FX5 - Ignore Glow on 2)							
	(35Y4 - Cont. Test - 1-4)								(60FX5 - Cont. Test - 2-5)							
35Z3		3	14	1	16	7	2	RK-61		2	2	2	20		1-3	
35Z4		3	14	2	16	8	5	KT-66		2	8	2	14	8	3-4-5	
35Z6	p	4	14	2	12	4	3	HY-69		2	8	1	18		2-3-10	
	p	4	14	2	12	8	5	70A7	a	2	16	2	14	8	3-4-5	
36		2	8	1	18	5	2-3-10		r	2	16	2	14	1		
37		3	8	1	30	5	2-3		(70A7 - Rect. Test - See Instructions)							
38		3	8	1	30	4	2-3-10		(70A7 - Cont. Test - 6-7)							
38A3		2	14	4	14	3	1-6-10	70L7	a	3	16	2	16	6	3-4-5	
	(38A3 - Ignore Glow on 1-6)								r	3	16	2	16	1	8	
39		2	8	1	14	5	2-3-10	71		3	7	1	26		2-3	
40		2	7	1	18		2-3	75	t	1	8	1	8	5	2-10	
41		3	8	1	20	5	2-3-4		d	1	8	1	18		3	
42		3	8	1	22	5	2-3-4		d	1	8	1	18		4	
43		3	13	1	20	5	2-3-4	76		2	8	1	16	5	2-3	
45		3	4	1	26		2-3	77		2	8	1	16	5	2-3-4-10	
45A5		2	15	1	14	3-7	2-5-6	78		2	8	1	16	5	2-3-4-10	
	(45A5 - Cont. Test - 3-7)							79	t	3	8	1	20	4	2-3	
45B5		2	14	4	14	3	1-2-6-8-9-7		t	3	8	1	20		5-10	
	(45B5 - Cont. Test - 1-2-6-8-9)							80	p	4	7	1	14		2	
	(45B5 - Ignore Glow on 1-6)								p	4	7	1	14		3	
45Z3		3	15	1	18	4	2-6	81		4	9	1	18		2	
	(45Z3 - Ignore Glow on 2)							82	p	4	4	1	14		2	
	(45Z3 - Cont. Test - 2-6)								p	4	4	1	14		3	
45Z5		3	15	7	16	8	5	83	p	4	7	1	14		2	
	(45Z5 - Cont. Test - 2-3)								p	4	7	1	14		3	

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test		
83V	p	4	7	1	12	2	CK-501-AX	2	2	3	22		1-2-4		
	p	4	7	1	12	3	502A	3	8	2	16	8	3-5-6		
85	t	1	8	1	10	5	2-10	2	2	1	22		2-4-5		
	d	1	8	1	16	3	CK-503-AX	2	2	1	22		2-4-5		
	d	1	8	1	16	4	CK-505-AX	4	1	3	60		1-2-4		
89		3	8	1	22	5	2-3-4-10	2	2	3	22		1-2-4		
99		2	5	1	32		2-3	2	2	3	22		1-2-4		
101F		2	7	1	20		2-3	CK-511-X	2	2	3	22		1-2-4-5	
117L7	a	3	17	2	18	8	3-4-5	CK-512-AX	4	1	3	74		1-2-4	
	r	3	17	2	16	1	6	CK-521-AX	2	2	3	20		1-2-4	
117N7	a	3	17	2	18	6	3-4-5	CK-522-AX	2	2	3	22		1-2-4	
	r	3	17	2	16	8		CK-527-AX	1	2	3	36		1-2-4	
	(117N7 - Rect. Test - See Instructions)							CK-532-DX	1	2	3	36		1-2-4	
117P7	a	3	17	2	18	6	3-4-5	CK-536-AX	1	2	3	36		1-2-4	
	r	3	17	2	16	8		CK-542-DX	1	2	3	10		1-2-4	
	(117P7 - Rect. Test - See Instructions)							CK-551-AXA							
117Z3		3	17	3	18	6	1-5	pe	4	2	4	72		1-2-5	
	(117Z3 - Ignore Glow on 1)							d	4	2	4	72		3	
	(117Z3 - Cont. Test - 1-5)							CK-553-AXA	2	2	3	18		1-2-4	
117Z4		3	17	2	18	8	5	CK-556-AX	2	2	2	18		1-3	
117Z6	p	3	17	2	18	4	3	CK-568-AX	2	2	2	20		1-3	
	p	3	17	2	18	8	5	CK-569-AX	2	2	3	18		1-2-4	
X-155	t	2	8	4	14	3	1-2	CK-573-AX	2	2	2	18		1-3	
	t	2	8	4	14	8	6-7	CK-605-CX	2	8	3	14	6	1-2-5-7	
205D		3	7	1	30		2-3	CK-606-BX	1	8	2	8	4	1	
262B		3	10	1	30	3	2-10	CK-608-CX	3	8	3	18	6	1-5	
264C		3	2	1	42		2-3	CK-619-CX	2	8	2	16	5	1-4	
271A		3	7	1	20	4	2-3	717A	2	8	2	16	3-5	4-6-8	
272A		3	10	1	28	4	2-3	(717A - Cont. Test - 3-5)							
274A	p	3	7	1	28		2	801	3	9	1	36		2-3	
	p	3	7	1	28		3	802	3	8	1	22	6	3-4-5-10	
300B		3	7	1	18		2-3	807	3	8	1	18	4	2-3-10	
307A		3	7	1	20		2-3-4-10	809	3	8	1	22		3-10	
310A		3	10	1	22	5	2-3-4-10	811A	3	8	4	24		3-10	
313C		4	9		24	1	2	812	4	8	1	14		3-10	
328A		3	9	1	22	5	2-3-4-10	837	3	11	1	18	6	3-4-5-10	
329A		3	9	1	20	4	2-3-10	841	3	9	1	30		2-3	
331B		2	10	1	16	4	2-3-10	842	3	9	1	40		2-3	
336A		3	10	1	20	5	2-3-4	843	3	4	1	30	4	2-3	
345A	p	4	8	1	12	4	2	864	2	2	1	28		2-3	
	p	4	8	1	12		3	866JR	4	4	1	14		2	
347A		3	8	2	30	8	4-10	884	3	8	2	20	8	3-5	
348A		3	8	2	20	8	3-4-5-10	885	3	4	1	20	4	2-3	
349A		2	8	2	14	8	3-4-5	932	3	3	1	30		2-3-10	
350A		4	8	1	14	4	2-3-10	950	3	3	1	62		2-3-4	
350B		4	8	2	14	8	3-4-5	954	3	8	1	22	5	2-3-6-10	
351A	p	4	8	2	12	8	3	955	3	8	1	20	5	2-3	
	p	4	8	2	12		5	956	3	8	1	20	5	2-3-6-10	
352A	t	3	10	1	28	5	2-10	957	3	2	1	40		2-3	
	d	1	10	1	12		3	958	3	2	1	26		2-3	
	d	1	10	1	12		4	(958 - Cont. Test - 4-5)							
TS-383		4	8	4	28		1	959	3	2	1	30		2-3-6-10	
398A		3	8	2	20		3-4-6-8	(959 - Cont. Test - 4-5)							
401A		2	8	3	16	2-7	1-5-6	FM-1000							
	(401A - Cont. Test - 2-7)							to	3	8	1	16	3	2-4-5-6-7	
407A	t	2	12	5	14	2	3-4	t	3	8	1	16		2-5	
	t	2	12	5	14	8	6-7	1005	p	4	8	6	16		3
	(407A - Cont. Test - 1-9)							p	4	8	6	16		5	
408A		2	12	3	16	2-7	1-5-6	CK-1013	4	1		22		1-2-6-7	
	(408A - Cont. Test - 2-7)							(CK-1013 - Cont. Test - 1-2-6-7)							
412A	p	4	8	4	14	7	9	1201	3	8	2	16	4-6	1-5-3-7	
	p	4	8	4	14	3	1	(1201 - Ignore Glow on 1-3)							
417A		2	8	3	14	6	1-4-5-7-8	(1201 - Cont. Test - 1-3-4-5-6-7)							
	(417A - Ignore Glow on 4-5-7)														
	(417A - Cont. Test - 4-5-7-8)														

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test
1203	1	8	1	10	7	4	1851	3	8	2	14	8	3-4-5-10
1206 s	3	8	1	20	6	3-5-7	1852	3	8	2	14	5	3-4-6-8
s	3	8	1	18		2-3-4	1853	3	8	2	16	5	3-4-6-8
1221	3	8	1	22	5	2-3-4-10	5516	3	4	2-7	20		3-5-10
1222A	3	8	1	18	7	2-3-4	(5516 - Cont. Test - 1-4-6)						
1223	3	8	1	22	8	3-4-5-10	CK-5517	4	1		22	1-2-6-7	10
1229	3	3	1	38		2-3-10	(CK-5517 - Cont. Test - 1-2-6-7)						
1231	3	8	1	16	7	2-3-4-6	5590	2	8	3	18	2-7	1-5-6
1232	3	8	1	16	7	2-3-4-6	(5590 - Cont. Test - 2-7)						
HY-1269	3	8	4	22		2-3-10	5603	3	8	2	18		3-4-6-8
(HY-1269 - Cont. Test - 1-5)							CK-5608 t	3	4	7	20	4	5-6
1273	3	8	1	20	7	2-3-4-6	t	3	4	7	20		2-3
1276	3	7	1	20		2-3	5610	2	8	3	16	2	1-5-6
1280	3	11	1	20	7	2-3-4-6	(5610 - Ignore Glow on 1)						
1282	3	8	1	16	4-7	2-3-5-6	(5610 - Cont. Test - 1-5)						
(1282 - Cont. Test - 4-7)							5618	3	4	5	18		2-3-6
1291 t	2	2	4	18		2-3	(5618 - Cont. Test - 1-7)						
t	2	2	4	18		6-7	5636	2	8	3	16	2-8	1-4-5-7
(1291 - Cont. Test - 1-8)							(5636 - Cont. Test - 2-8)						
1299	2	2	7	18		2-3-6	5642	4	2	2	30		10
(1299 - Cont. Test - 1-8)							(5642 - The 2 Bottom leads of tube connect to pins 1 and 2 of Octal Socket. Top lead connects to grid cap.)						
1602	3	9	1	32		2-3	5654	2	8	3	16	2-7	1-5-6
1603	3	8	1	22	5	2-3-4-10	(5654 - Cont. Test - 2-7)						
1609	3	2	1	32		2-3-4	5663	3	8	3	16	2	1-5-7
1610	3	4	1	24		2-3-4	5670 t	2	8	1	16	8	6-7
1611	3	8	2	22	8	3-4-5	t	2	8	1	16	2	3-4
1612	3	8	2	20	8	3-4-5-10	5672	2	2	3	22		1-2-4
1613	3	8	2	22	8	3-4-5	5676	2	2	2	18		1-3
1614	3	8	2	18	8	3-4-5	CK-5678	2	2	3	18		1-2-4
1619	3	4	2	20		3-4-5-8	5679 d	1	5	4	8	7	6
1620	3	8	2	22	8	3-4-5-10	d	1	5	4	8	2	3
1621	3	8	2	22	8	3-4-5	(5679 - Cont. Test - 1-8)						
1622	3	8	2	18	8	3-4-5	5686	3	8	4	20	1-3-8	2-6-9-7
1624	3	4	1	20		2-3-10	(5686 - Ignore Glow on 6)						
1625	3	11	1	18		3-4-10	(5686 - Cont. Test - 1-3-8-6-9)						
1626	3	11	2	26	8	3-5	5687 t	2	8	8	14	6	7-9
1629 t	3	11	2	34	8	3-5	t	2	8	8	14	3	1-2
e	4	11	2	0		3-4	(5687 - Cont. Test - 4-5)						
(1629 - See Instructions for Eye Test)							5691 t	3	8	7	22	3	1-2
1631	3	11	2	18	8	3-4-5	t	3	8	7	22	6	4-5
1632	3	11	2	16	8	3-4-5	5692 t	3	8	7	20	3	1-2
1633 t	3	13	7	20	6	4-5	t	3	8	7	20	6	4-5
t	3	13	7	20	3	1-2	5693	3	8	2	20	5	3-4-6-8
1634 t	3	11	7	26	6	2-3	CK-5694						
t	3	11	7	26		4-5	t	3	8	2	20	1	3-4
1635 t	3	8	2	22	8	5-6	t	3	8	2	20	8	5-6
t	3	8	2	22		3-4	5695	4	4	1	16		2
1639 t	3	8	2	18	8	3-10	5696	2	8	3	18	2	1-5-7-6
d	1	8	2	12		5	(5696 - Ignore Glow on 5)						
d	1	8	2	12		4	(5696 - Cont. Test - 5-7)						
1644 pe	3	11	6	22	2	3-4-5	5702	2	8	3	14	6	1-2-5-7
pe	3	11	6	22		1-5-8	5703	3	8	3	16	6	1-5
1650	3	8	1	20	5	2-3	5718	3	8	3	18	5	1-8
1655 t	3	8	7	24	6	4-5	5719	2	8	3	16	5	1-8
t	3	8	7	24		2-3	5725	3	8	3	14	2	1-5-6-7
1657	3	8	2	14	8	3-5	5726 d	3	8	3	8	1	7
(1657 - Cont. Test - 1-4)							d	3	8	3	8	5	2
1659 t	3	4	1	22	5	2-10	5727	3	8	3	16	2	1-5-7-6
d	1	4	1	18		3	(5727 - Ignore Glow on 5)						
d	1	4	1	18		4	(5727 - Cont. Test - 5-7)						
1662	3	2	5	58		2-6-3-4	5744	2	8	2	16	5	1-4
(1662 - Ignore Glow on 2)							5749	3	8	3	16	7	1-2-5-6
(1662 - Cont. Test - 1-2-6-7)													
1665	3	8	2	14	8	3-5-6							

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test		
5750	to	2	8	3	14	2	1-5-6-7	6088	2	2	3	22		1-2-4	
	t	2	8	3	16		1-6	6096	2	8	3	14	2-7	1-5-6	
5751	t	3	8	9	20	8	6-7		(6096 - Cont. Test - 2-7)						
	t	3	8	9	20	3	1-2	6097	d	1	8	3	8	1	2
	(5751 - Cont. Test - 4-5)								d	1	8	3	8	5	7
5763		3	8	4	16	7	1-3-6-8-9	6098		2	8	6	14	1	3-5-7
	(5763 - Ignore Glow on 8)							6111	t	2	8	3	14	5	7-8
	(5763 - Cont. Test - 8-9)								t	2	8	3	14	4	1-2
5784		2	8	3	14	6	1-2-5-7	6112	t	2	8	3	14	5	7-8
5812		3	5	7	18	2	1-5-6		t	2	8	3	14	4	1-2
	(5812 - Cont. Test - 3-4)							6135		3	8	3	20	7	1-5-6
5814	t	3	8	9	20	3	1-2		(6135 - Ignore Glow on 1)						
	t	3	8	9	20	8	6-7		(6135 - Cont. Test - 1-5)						
	(5814 - Cont. Test - 4-5)							6136		3	8	3	18	7	1-2-5-6
5823		4	18	1	20	3-7	1	6137		3	8	2	20	5	3-4-6-8
	(5823 - Must Show Short on 3-7)							6146		2	8	2	14	1-4-6	3-5-10
5824		3	13	2	16	8	3-4-5		(6146 - Cont. Test - 1-4-6)						
CK-5829								6159		3	13	2	16	1-4-6	3-5-10
	d	1	8	3	8	7	6		(6159 - Cont. Test - 1-4-6)						
	d	1	8	3	8	2	1	6187		3	8	3	16	2	1-5-6-7
5840		2	8	3	14	2-4-8	1-5-6	6188	t	3	8	7	22	3	1-2
	(5840 - Cont. Test - 2-4-8)								t	3	8	7	22	6	4-5
5842		2	8	3	14	6	1-4-5-7-8	6189	t	3	8	9	20	3	1-2
	(5842 - Ignore Glow on 4-5-7)								t	3	8	9	20	8	6-7
	(5842 - Cont. Test - 4-5-7-8)								(6189 - Cont. Test - 4-5)						
5847		2	8	3	14	4	1-6-8	6197		2	8	4	14	1	2-9-3-8
CK-5854		1	2	3	22		1-2-4		(6197 - Ignore Glow on 2-3)						
5879		3	8	4	24	3	1-7-8-9		(6197 - Cont. Test - 2-3-8-9)						
5881		3	8	2	18	8	3-4-5	6201	t	3	8	9	16	8	6-7
5899		2	8	3	16	2-4-8	1-5-7		t	3	8	9	16	3	1-2
	(5899 - Cont. Test - 2-4-8)								(6201 - Cont. Test - 4-5)						
5902A		2	8	3	16	2-4-8	1-5-7	6202	p	3	8	3	24	7	6
	(5902A - Cont. Test - 2-4-8)								p	3	8	3	24		1
5915	to	3	8	3	18	2	1-5-6-7	6203	d	1	8	4	8	7	9
	t	3	8	3	18		1-6		d	1	8	4	8		1
5931	p	3	7	2	24		4	6205		2	8	3	14	2-8	1-4-5-7
	p	3	7	2	24		6		(6205 - Cont. Test - 2-8)						
5932		3	8	2	20	8	3-4-5	6206		2	8	3	14	2-8	1-4-5-7
5933		3	8	1	20	4	2-3-10		(6206 - Cont. Test - 2-8)						
5963	t	3	8	9	20	3	1-2	6211	t	2	8	9	14	8	6-7
	t	3	8	9	20	8	6-7		t	2	8	9	14	3	1-2
	(5963 - Cont. Test - 4-5)								(6211 - Cont. Test - 4-5)						
5964	t	2	8	3	14	7	2-5	6265		3	8	3	16	2	1-5-6
	t	2	8	3	14		1-6	6267		2	8	4	16	3	1-6-9
5965	t	2	8	9	14	8	6-7		(6267 - Cont. Test - 2-7)						
	t	2	8	9	14	3	1-2	6336	t	3	8	7	12	6	4-5
	(5965 - Cont. Test - 4-5)								t	3	8	7	12	3	1-2
6005		3	8	3	20	2	1-7-5-6	6350	t	2	8	9	14	7	6-8
	(6005 - Ignore Glow on 1)								t	2	8	9	14	2	1-3
	(6005 - Cont. Test - 1-7)							6360	te	3	8	9	18	2	3-7-8
6021	t	2	8	3	14	5	7-8		te	3	8	9	18		1-6-7
	t	2	8	3	14	4	1-2	6386	t	2	8	1	16	8	6-7
6028		2	12	3	14	2-7	1-5-6		t	2	8	1	16	2	3-4
	(6028 - Cont. Test - 2-7)							6394	t	2	13	7	16	6	4-5
6029		2	2	2	18		1-3	6417	t	2	13	7	16	3	1-2
6046		3	13	2	18	8	3-4-5			3	11	4	16	7	1-3-6-8-9
6072	t	2	8	9	18	8	6-7		(6417 - Ignore Glow on 8)						
	t	2	8	9	18	3	1-2		(6417 - Cont. Test - 8-9)						
	(6072 - Cont. Test - 4-5)							6463	t	2	8	9	16	7	6-8
6080	t	2	8	7	14	6	4-5		t	2	8	9	16	2	1-3
	t	2	8	7	14	3	1-2		(6463 - Cont. Test - 4-5)						
6087	p	3	7	2	32		4	6550		2	8	2	16	8	3-4-5
	p	3	7	2	32		6	6660		3	8	3	18	7	1-2-5-6
								6661		3	8	3	16	2	1-5-6

Tube	A	B	C	D	Cath. Short	Test	
6662	3	8	3	18	2	1-5-6-7	
6663	d	1	8	3	8	1	7
	d	1	8	3	8	5	2
6669	3	8	3	18	2	1-7-5-6	
	(6669 - Ignore Glow on 1 - Cont. Test - 1-7)						
6265	3	8	3	16	2	1-5-6	
6267	2	8	4	16	3	1-6-9	
	(6267 - Cont. Test - 2-7)						
6336	t	3	8	7	12	6	4-5
	t	3	8	7	12	3	1-2
6350	t	2	8	9	14	7	6-8
	t	2	8	9	14	2	1-3
6360	te	3	8	9	18	2	3-7-8
	te	3	8	9	18		1-6-7
6386	t	2	8	1	16	8	6-7
	t	2	8	1	16	2	3-4
6394	t	2	13	7	16	6	4-5
	t	2	13	7	16	3	1-2
6417	3	11	4	16	7	1-3-6-8-9	
	(6417 - Ignore Glow on 8)						
	(6417 - Cont. Test - 8-9)						
6463	t	2	8	9	16	7	6-8
	t	2	8	9	16	2	1-3
	(6463 - Cont. Test - 4-5)						
6550	2	8	2	16	8	3-4-5	
6660	3	8	3	18	7	1-2-5-6	
6661	3	8	3	16	2	1-5-6	
6662	3	8	3	18	2	1-5-6-7	
6663	d	3	8	3	8	1	7
	d	3	8	3	8	5	2
6669	3	8	3	18	2	1-7-5-6	
	(6669 - Ignore Glow on 1)						
	(6669 - Cont. Test - 1-7)						
6677	2	8	4	14	1	2-9-3-8	
	(6677 - Ignore Glow on 2-3)						
	(6677 - Cont. Test - 2-3-8-9)						
6678	t	2	8	4	16	8	1-9
	pe	2	8	4	16	7	2-3-6
6679	t	3	8	9	16	8	6-7
	t	3	8	9	16	3	1-2
	(6679 - Cont. Test - 4-5)						
6680	t	3	8	9	20	8	6-7
	t	3	8	9	20	3	1-2
	(6680 - Cont. Test - 4-5)						
6681	t	3	8	9	20	8	6-7
	t	3	8	9	20	3	1-2
6688	2	8	4	14	1-3	2-7-9	
	(6688 - Cont. Test - 1-3)						
6829	t	2	8	9	14	8	6-7
	t	2	8	9	14	3	1-2
	(6829 - Cont. Test - 4-5)						
6919	d	1	8	3	8	1	7
	d	1	8	3	8	5	2
6922	t	2	8	4	14	8	6-7
	t	2	8	4	14	3	1-2
6973	3	8	4	18	7	1-8-3-6-9	
	(6973 - Ignore Glow on 1-3)						
	(6973 - Cont. Test - 1-3-6-8)						
	(6973 - Grid Short Test - throw 3-6 together)						
	(6973 - Screen Short Test - throw 1-8 together)						
7025	t	3	8	9	20	8	6-7
	t	3	8	9	20	3	1-2
	(7025 - Cont. Test - 4-5)						
7027	2	8	7	16	8	3-1-4-5-6	
	(7027 - Ignore Glow on 1-5)						
	(7027 - Cont. Test - 1-4-5-6)						
7036	to	3	8	3	18	2	1-5-6-7
	t	3	8	3	18		1-6
7054	2	11	4	14	1	2-7-8	
	(7054 - Cont. Test - 3-9)						
7055	d	1	11	3	8	1	7
	d	1	11	3	8	5	2
7056	2	11	4	14	2	1-5-6-7	
7057	t	2	11	4	14	8	6-7
	t	2	11	4	14	3	1-2
7058	t	3	11	4	20	8	6-7
	t	3	11	4	20	3	1-2
7059	t	2	11	4	16	8	1-9
	pe	2	11	4	16	7	2-3-6
7060	t	2	11	4	16	1	2-3
	pe	2	11	4	16	6	7-8-9
7061	3	11	4	20	7	1-8-3-6-9	
	(7061 - Ignore Glow on 1-3)						
	(7061 - Cont. Test - 1-3-6-8)						
7167	2	11	3	14	2-7	1-5-6	
7189	2	8	4	14	3	1-2-7-9	
	(7189 - Ignore Glow on 1)						
	(7189 - May Show Short on 1-2)						
7199	t	2	8	4	14	8	1-9
	pe	2	8	4	14	6	2-3-7
7247	t	3	8	9	18	8	6-7
	t	3	8	9	18	3	1-2
7258	t	2	11	4	16	3	1-2
	pe	2	11	4	16	9	6-7-8
7355	3	8	2	16	5	3-6-8	
9001	3	8	3	20	2-7	1-5-6	
	(9001 - Cont. Test - 2-7)						
9002	3	8	3	24	2-7	1-5-6	
	(9002 - Ignore Glow on 1)						
	(9002 - Cont. Test - 1-2-5-7)						
9003	3	8	3	20	2-7	1-5-6	
	(9003 - Cont. Test - 2-7)						
9004	d	1	8	1	8	3	2
9005	d	1	5	1	8	2	3
	(9005 - Cont. Test - 4-5)						
9006	d	1	8	3	10	2-7	1-5
	(9006 - Ignore Glow on 1)						
	(9006 - Cont. Test - 1-2-5-7)						
PCF-82t	2	10	4	16	8	1-9	
	pe	2	10	4	16	2-3-6	
PJ-8	3	7	1	36		2-3	
XXB	t	2	2	7	22	5-6	
	t	2	2	7	22	3-4	
	(XXB - Cont. Test - 1-8)						
XXD	t	3	11	1	22	7	5-6
	t	3	11	1	22	2	3-4
XXFM	t	1	8	1	8	4	2-3
	d	1	8	1	16		5
	d	1	8	1	16	7	6
XXL	2	8	1	14	7	2-6	

SPECIAL SUPPLEMENT FOR FOREIGN TUBES

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test
DA-90 d	1	2	1	18	3	2-6	EAA-11						
(DA-90 - Must Show Short on 2)							d	1	8	2	8	4	5
DAC-32							d	1	8	2	8	7	6
d	1	2	2	18		5	(EAA-11 - Make Special Adapter)						
p	2	2	2	24		3-10	EAA-91						
DAF-91							d	1	8	3	8	1	7
pe	2	2	1	22		4-5-6	d	1	8	3	8	5	2
d	1	2	1	20		3	EAA-901						
DAF-96							d	1	8	3	8	1	7
pe	2	2	7	36		4-5-6	d	1	8	3	8	5	2
d	1	2	7	22		3	EABC-80						
DC-90	3	2	7	40		2-3-5-6	t	3	8	4	18	7	8-9
(DC-90 - Ignore Glow on 2-5)							d	1	8	4	14		6
(DC-90 - Cont. Test - 2-3-5-6)							d	1	8	4	8	3	2
DC-96	2	2	1	18		2-3-5-6	d	1	8	4	8		1
(DC-96 - Ignore Glow on 2-5)							EAC-91						
(DC-96 - Cont. Test - 2-3-5-6)							t	3	8	3	18	5	6-7
DCC-90							d	1	8	3	8	2	1
t	2	2	4	18		2-3	EAF-42						
t	2	2	4	18		5-6	pe	2	8	1	16	7	2-4-5-6
(DCC-90 - Cont. Test - 1-7)							d	1	8	1	14		3
DF-33	2	2	2	20		3-4-10	EAM-86						
DF-91	2	2	7	20		2-3-6	t	2	8	4	18	9	1-8
(DF-91 - Cont. Test - 1-5)							e	4	8	4	0	3	6-7
DF-92	2	2	7	22		2-3-6	(EAM-86 - See Instructions for Eye Test)						
(DF-92 - Cont. Test - 1-5)							EBC-11						
DF-96	2	2	7	22		2-3-6	t	3	8	2	18	8	6-7
(DF-96 - Cont. Test - 1-5)							d	1	8	2	10		5
DF-97	3	2	7	30		2-3-4-6	d	1	8	2	10		4
(DF-97 - Cont. Test - 1-5)							EBC-33						
DF-904	2	2	7	20		2-3-6	t	3	8	2	20	8	3-10
(DF-904 - Cont. Test - 1-5)							d	1	8	2	10		5
DK-32 to	2	2	2	22		3-4-5-6-10	d	1	8	2	10		4
t	2	2	2	26		5-6	EBC-41						
DK-91 to	2	2	7	22		2-3-4-6	t	2	8	1	16	7	2-3
t	2	2	7	22		3-4	d	1	8	1	12		5
(DK-91 - Cont. Test - 1-5)							d	1	8	1	12		6
DK-92 a	3	2	7	24		2-3-4-5-6	EBC-90						
o	2	2	7	18		3-4-5	t	3	8	3	20	2	1-7
DK-96	3	2	7	36		2-3-4-5-6	d	1	8	3	16		5
DL-33	2	2	8	18		3-4-5	d	1	8	3	16		6
(DL-33 - Cont. Test - 2-7)							EBC-91						
DL-35	2	2	2	20		3-4-5	t	2	8	3	16	2	1-7
DL-41	2	2	1	16		2-5-6	d	1	8	3	18		5
(DL-41 - Cont. Test - 3-7-8)							d	1	8	3	18		6
DL-92	2	2	5	18		2-6-3-4	EBF-15						
(DL-92 - Ignore Glow on 2)							pe	2	8	2	14	8	1-6-7
(DL-92 - Cont. Test - 1-2-6-7)							d	1	8	2	10		5
DL-94	2	2	5	18		2-3-6	d	1	8	2	10		4
(DL-94 - Cont. Test - 1-7)							EBF-80						
DL-96	2	2	5	18		2-3-6	pe	3	8	5	18	3	1-2-6-9
DM-70 e	4	2	4	0		1-8	d	1	8	5	14		7
(DM-70 - See Instructions for Eye Test)							d	1	8	5	12		8
DM-71 e	4	2	4	0		1-8	EBF-83						
(DM-71 - See Instructions for Eye Test)							pe	2	8	4	14	3	1-2-6
DY-80	4	2	2-5-8	40		10	d	1	8	4	12		7
(DY-80 - Cont. Test - 1-2-4-5-6-8-9)							d	1	8	4	12		8
DY-86	4	2	2-5-8	32		10	EBF-89						
(DY-86 - Cont. Test - 1-4-6-9)							pe	2	8	4	14	3	1-2-6
E-88-CC							d	1	8	4	12		7
t	2	8	4	14	8	6-7	d	1	8	4	12		8
t	2	8	4	14	3	1-2	EC-86	2	8	4	16	37	1-2-6-8-9
E-180-F	2	8	4	14	1-3	2-7-9	(EC-86 - Ignore Glow on 1-2-6-8)						
(E-180-F - Cont. Test - 1-3)							(EC-86 - Cont. Test - all pins)						

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test
EC-88	2	8	4	16	2	1-3-6-7-8-9	ECH-81						
(EC-88 - Ignore Glow on 1-3-6-7-8)							he	2	8	5	14	3	1-2-6-7
(EC-88 - Cont. Test 1-3-6-7-9)							t	2	8	5	16		8-9
EC-92	2	8	3	14	7	1-6	ECH-83						
ECC-33							h	2	8	4	12	3	1-2-6-7
t	3	8	7	16	6	4-5	t	2	8	4	14		8-9
t	3	8	7	16	3	1-2	ECH-84 t	2	8	4	18	3	8-9
ECC-35							h	2	8	4	18		2-6-7
t	3	8	7	16	6	4-5	ECH-200						
t	3	8	7	16	3	1-2	t	2	8	5	16	9	8-10
ECC-81							h	2	8	5	18	1	3-4-7
t	3	8	9	16	8	6-7	ECL-80						
t	3	8	9	16	3	1-2	pe	3	8	4	18	3	6-7-8-9
(ECC-81 - Cont. Test - 4-5)							t	1	8	4	24		1-2
ECC-82							ECL-82						
t	3	8	9	20	8	6-7	t	2	8	4	14	8	1-9
t	3	8	9	20	3	1-2	pe	2	8	4	14	2	3-6-7
(ECC-82 - Cont. Test - 4-5)							ECL-84 t	2	8	4	14	3	1-2
ECC-83							pe	2	8	4	14	7	6-8-9
t	3	8	9	20	8	6-7	ECL-85 t	2	8	4	14	3	1-2
t	3	8	9	20	3	1-2	pe	3	8	4	14	8	6-7-9
(ECC-83 - Cont. Test - 4-5)							ECL-86 t	2	8	4	18	2	1-9
ECC-84							pe	2	8	4	18	7	3-6-8
t	2	8	4	14	7-8	6-9	EF-41	3	8	1	18	7	2-5-6
t	2	8	4	14	1	2-3	(EF-41 - May Show Short on 3-7)						
(ECC-84 - Cont. Test - 7-8)							EF-80	2	7	4	12	1-3	2-7-8
ECC-85							(EF-80 - Must Show Short on 1-3)						
t	2	8	5	14	8	6-7	(EF-80 - Cathode Short Test - Throw 1-3 Together)						
t	2	8	5	14	3	1-2	EF-83	2	8	4	16	3	1-6-8-9
ECC-86							(EF-83 - Cont. Test - 2-7)						
t	2	8	4	14	8	6-7	EF-85	2	8	4	12	1-3	2-7-8
t	2	8	4	14	3	1-2	(EF-85 - Must Show Short on 1-3)						
ECC-88							(EF-85 - Cathode Short Test - Throw 1-3 Together)						
t	2	8	4	12	8	6-7	EF-86	2	8	4	16	3	1-6-9
t	2	8	4	12	3	1-2	EF-89	2	8	4	14	3	2-7-8-9
ECF-12							(EF-89 - Cont. Test - 1-6)						
t	2	8	2	16	8	4-5	EF-91	2	8	3	12	2	1-5-6-7
pe	2	8	2	16		1-6-7	EF-93	3	8	3	18	7	1-2-5-6
ECF-80							EF-94	3	8	3	18	7	1-2-5-6
t	2	7	4	14	8	1-9	EF-97	2	8	3	12	2	1-5-6
pe	2	7	4	12	7	2-3-6	EF-98	2	7	3	12	2	1-5-6
ECF-82							EF-804	2	8	4	18	3	1-7-8-9
t	2	8	4	14	8	1-9	(EF-804 - Cont. Test - 2-6)						
pe	2	8	4	14		2-3-6	EFL-200						
ECF-200							pe	2	8	5	16	7	8-9-10
t	2	8	5	16	1	9-10	pe	2	8	5	16	2	1-3-4
pe	2	8	5	16	2	3-7-8	EH-90 t	2	8	3	14	2	1-6
ECF-201							to	2	8	3	14		1-5-6-7
t	2	8	5	18	1	9-10	EK-90 to	2	8	3	14	2	1-5-6-7
pe	2	8	5	16	2	3-7-8	t	2	8	3	14		1-6
ECF-801							EL-12	2	8	2	14	8	5-6-7
t	2	8	4	14	1-3	8-9	EL-34	3	8	7	16	8	1-3-4-5
pe	3	8	4	14		2-6-7	EL-36	3	11	2	16	3-8	1-4-5-10
(ECF-801 - Cont. Test - 1-3)							(EL-36 - Ignore Glow on 1)						
ECF-802							(EL-36 - Cont. Test - 3-8)						
t	2	8	4	18	8	1-9	EL-37	2	8	2	14	8	3-4-5
pe	2	8	4	16	7	2-3-6	EL-38	3	7	2	14	8	4-5-10
ECF-805							EL-41	2	8	1	14	3-7	2-5-6
t	2	8	4	16	6-8	1-9	(EL-41 - Cont. Test - 3-7)						
pe	2	8	4	16		2-3-7	EL-82	2	8	4	16	3	2-7-9
(ECF-805 - Cont. Test - 6-8)							EL-84	3	8	4	18	3	1-2-7-9
ECH-42 t	3	8	1	18	7	3-4	(EL-84 - Ignore Glow on 1)						
os	3	8	1	20		2-4	(EL-84 - Cont. Test - 1-2)						
he	3	8	1	18		2-5-6							

Tube	A	B	C	D	Cath. Short	Test
EL-86	2	7	4	12	3	1-2-6-9-7-8 (EL-86 - May Show Short on 1-2-6-7-8-9) (EL-86 - Ignore Glow on 1-6-7)
EL-90	3	8	3	18	2	1-7-5-6 (EL-90 - Ignore Glow on 1) (EL-90 - Cont. Test - 1-7)
EL-95	2	7	3	12	2	1-7-5-6 (EL-95 - Ignore Glow on 1)
EL-500	3	8	4	14	3-8	1-2-6-7-10 (EL-500 - Magnoval Base - Do not insert tube fully into socket) (EL-500 - Cont. Test 1-2, 3-8, 6-7)
ELL-80						
pe	2	8	4	18	7	1-2-3
pe	2	8	4	18		6-8-9
EM-35 t	2	8	2	18	8	3-4
e	4	8	2	0		3-6-5 (EM-35 - See Instructions for Eye Test)
EM-80 t	3	8	4	26	2	1-7
e	4	8	4	0		7-3-6-9 (EM-80 - Throw 7 to Test, then 3-6-9 Together to Test - See Instructions for Eye Test) (EM-80 - May Show Short on 3-6-9)
EM-81 t	3	8	5	28	2	1-7
e	4	8	5	0		7-3-8-9 (EM-81 - Ignore Glow on 3-8) (EM-81 - See Instructions for Eye Test) (EM-81 - Cont. Test - 3-8-9)
EM-84 t	3	8	5	42	3	1-9
e	4	8	5	0		7-2-6-8 (EM-84 - Ignore Glow on 2-6) (EM-84 - See Instructions for Eye Test) (EM-84 - Cont. Test - 2-6-8)
EM-87 t	2	8	4	22	3	1-9
e	4	8	4	0		2-6-7-8 (EM-87 - Ignore Glow on 2-6-7 - Cont. Test 2-6-8) (EM-87 - See Instructions For Eye Test)
EY-51	4	8	2	30		10 (EY-51 - Connect 2 Bottom Leads to Octal Sockets pins 1 and 2 - Top Lead Sockets to Grid Cap)
EZ-35 p	3	8	2	22	8	3
p	3	8	2	22		5
EZ-80 p	3	8	4	24	3	1
p	3	8	4	24		7
EZ-81 p	3	8	4	18	3	1
p	3	8	4	18		7
EZ-90 p	3	8	3	24	7	1
p	3	8	3	24		6
GZ-30 p	3	7	2	16		6
p	3	7	2	16		4
GZ-34 p	4	7	2	12		4
p	4	7	2	12		6
HBC-90						
t	3	11	3	20	2	1-7
d	1	11	3	16		5
d	1	11	3	16		6
HCH-81						
t	2	11	4	20	3	8-9
he	2	11	4	18		1-2-6
HF-93	3	11	3	16	7	1-2-5-6
HK-90 to	3	11	3	16	2	1-5-6-7
t	3	11	3	16		1-6

Tube	A	B	C	D	Cath. Short	Test
HL-92	3	15	3	16	1	2-5-6-7 (HL-92 - Ignore Glow on 2) (HL-92 - Cont. Test - 2-5)
HY-90	3	14	3	16	7	5 (HY-90 - Cont. Test - 4-6)
KT-88	3	7	2	16	8	3-4-5
LCF-200						
t	2	8	5	16	1	9-10
pe	2	8	5	16	2	3-7-8
LCF-201						
t	2	8	5	18	1	9-10
pe	2	8	5	16	2	3-7-8
LCF-801						
t	2	7	4	14	1-3	8-9
pe	3	7	4	14		2-6-7 (LCF-801 - Cont. Test - 1-3)
LCF-802						
t	2	8	4	16	8	1-9
pe	2	8	4	16	7	2-3-6
LCH-200						
t	2	7	5	16	9	8-10
h	2	7	5	18	1	3-4-7
LCL-84 t	2	10	4	14	3	1-2
pe	2	10	4	14	7	6-8-9
LFL-200						
pe	2	10	5	16	7	8-9-10
pe	2	10	5	16	2	1-3-4
LL-86	2	10	4	12	3	1-2-6-9-7 (LL-86 - Ignore Glow on 1-6) (LL-86 - Cont. Test - 1-2-6-8)
LL-500	3	12	5	14	3-8	1-2-6-7-10 (LL-500 - Magnoval Base - Do Not Insert Tube Fully into Socket) (LL-500 - Cont. Test - 1-2,3-8, 6-7)
LY-88	2	12	4	12	10	3-8-9 (LY-88 - Ignore Glow on 3-8) (LY-88 - Cont. Test - All pins)
PABC-80						
t	3	10	4	18	7	8-9
d	1	10	4	12		6
d	1	10	4	8		2
d	1	10	4	8		1
PC-86	2	5	4	14	3-7	1-2-6-8-9 (PC-86 - Ignore Glow on 1-2-6-8) (PC-86 - Cont. Test - 1-2-3-6-7-8-9)
PC-88	2	6	4	16	2	1-3-6-7-8-9 (PC-88 - Ignore Glow on 1-3-6-7-8) (PC-88 - Cont. Test - 1-3-6-7-9)
PCC-84						
t	2	9	4	14	7-8	6-9
t	2	9	4	14	1	2-3 (PCC-84 - Must Show Short on 7-8)
PCC-85						
t	2	9	4	14	8	6-7
t	2	9	4	14	3	1-2
PCC-88						
t	2	8	4	14	8	6-7
t	2	8	4	14	3	1-2
PCF-80						
t	2	9	4	14	8	1-9
pe	3	9	4	14	7	2-3-6
PCF-200						
t	2	9	5	16	1	9-10
pe	2	9	5	16	2	3-7-8

Tube	A	B	C	D	Cath. Short	Test	Tube	A	B	C	D	Cath. Short	Test		
PCF-201							UCC-85								
t	2	9	5	18	1	9-10	t	2	13	4	12	8	6-7		
pe	2	9	5	16	2	3-7-8	t	2	13	4	12	3	1-2		
PCF-801							UCH-42								
t	2	9	4	14	1-3	8-9	t	2	11	1	16	7	3-4		
pe	3	9	4	14		2- 6-7	he	2	11	1	14		2-4-5-6		
(PCF-801 - Cont. Test - 1-3)							UCH-81								
PCF-802							h	2	12	4	14	3	1-2-6		
t	2	10	4	18	8	1-9	t	2	12	4	14		8-9		
pe	2	10	4	16	7	2-3-6	UCL-81								
PCF-805							t	2	14	4	16	3-8	1-7		
t	2	9	4	16	6-8	1-9	p	2	14	4	12		2-6-9		
pe	2	9	4	16		2-3-7	(UCL-81 - Cont. Test - 3-8)								
(PCF-805 - Cont. Test - 6-8)							UF-80	2	12	4	10	1-3	2-8-9-7		
PCH-200							UF-85	2	12	4	27	1-3	2-7-8-9		
t	2	10	5	16	9	8-10	(UF-85 - Cont. Test - 1-3)								
h	2	10	5	18	1	3-4-7	UF-89	2	11	4	14	3	2-7-8		
PCL-84	t	2	11	4	16	3	1-2	(UF-89 - Cont. Test - 1-6)							
pe	2	11	4	16	1	6-8-9	UL-84	2	14	4	12	3	1-2-6-9-7		
PCL-85	t	2	12	4	14	3	1-2	(UL-84 - Cont. Test - 1-2-6-8-9)							
pe	3	12	4	14	8	6-7-9	(UL-84 - Ignore Glow on 1-6)								
PCL-86	t	2	11	4	18	2	1-9	UM-35	t	2	11	1	16	7	5-6
pe	2	11	4	18	7	3-6-8	e	4	11	1	0		3-6-4		
PF-86	2	6	4	18	3	1-6-9	(UM-35 - See Instructions for Eye Test)								
(PF-86 - Cont. Test - 2-7)							UM-80	t	3	12	4	20	2	1-7	
PFL-200							e	4	12	4	0		7-3-6-9		
pe	2	11	5	16	7	8-9-10	(UM-80 - See Instructions for Eye Test)								
pe	2	11	5	16	2	1-3-4	(UM-80 - Cont. Test - 3-6-9)								
PL-36	3	13	2	14	1-8	3-4-5-10	UY-41	1	14	1	16	7	2		
(PL-36 - Ignore Glow on 3)							UY-85	2	14	4	14	3	1-6-9		
(PL-36 - Cont. Test - 1-3-4-8)							(UY-85 - Ignore Glow on 1-6)								
PL-500	3	13	5	14	3-8	1-2-6-7-10	XCF-801								
(PL-500 - Magnoval Base - Do not insert tube fully into socket)							t	2	6	4	14	1-3	8-9		
(PL-500 - Cont. Test - 1-2, 3-8, 6-7)							pe	3	6	4	14		2-6-7		
PY-80	3	12	4	14	3	9	(XCF-801 - Cont. Test - 1-3)								
PY-81	3	11	4	16	10	2-9	XCL-84								
(PY-81 - Ignore Glow on 2)							t	2	9	4	14	3	1-2		
(PY-81 - Cont. Test - 2-9)							pe	2	9	4	14	7	6-8-9		
PY-82	1	11	4	14	3	9	XCL-85								
PY-83	4	12	4	12	10	9	t	2	10	4	14	3	1-2		
UABC-80							pe	3	10	4	14	8	6-7-9		
t	2	13	4	14	7	8-9	XCL-86	2	9	4	12	3	1-2-5-9-7		
d	1	13	4	14		6	(XCL-86 - Ignore Glow on 1-6)								
d	1	13	4	8	3	2	(XCL-86 - Cont. Test - 1-2-6-9)								
d	1	13	4	8		1	XL-36	3	8	2	16	3-8	1-4-5-10		
UBC-41							(XL-36 - Ignore Glow on 1)								
t	2	11	1	16	7	2-3	(XL-36 - Cont. Test - 3-8)								
d	1	11	1	18		6	XL-500	3	11	5	14	3-8	1-2		
d	1	11	1	18		5	(XL-500 - Magnoval Base - Do not insert tube fully into socket)								
UBC-81							(XL-500 - Cont. Test - 1-2, 3-8, 6-7)								
t	3	11	4	22	3	1-2									
d	1	11	4	16		8									
d	1	11	4	16		6									
(UBC-81 - May Show Short on 7-9)															
UBF-80															
pe	2	12	4	14	3	1-2-6-9									
d	1	12	4	16		8									
d	1	12	4	16		7									
UBF-89															
pe	2	12	4	14	3	1-2-6-9									
d	1	12	4	10		7									
d	1	12	4	10		8									
UC-92	2	10	3	12	7	1-6									