

Tube Test Data For

CONAR

Tube Tester

Model 224

CONAR TUBE TESTER
CONDENSED OPERATING INSTRUCTIONS

1. Plug in the tester to a commercial 120 VAC line.
2. Locate the tube to be tested in the Tube Data Manual.
3. Set the A, B, and D controls as indicated.
4. Insert the tube into the proper socket.
5. Turn the Line Adjust control for a center-scale reading on the meter (Adjust Line).
6. Check filament (heater) continuity by moving the Lever switch listed under "C" in tube data to the TEST position. The lamp must light if the filament is good. If the lamp lights, place the Lever switch in the "C" (up) position and readjust the ADJUST LINE control.
7. Test for cathode shorts by placing the Lever switch(es) listed under CATH SHORTS to the TEST position. The lamp must NOT light. Return the switch(es) to the NORMAL position.
8. Test for element continuity by placing the Lever switches listed under CONT TEST (if any) one by one in the TEST position and then return the switches to the NORMAL position. The lamp should light for each switch designated.
9. Place each Lever switch indicated in the TEST column in the TEST position. The lamp must NOT light for any of these switches. Leave all switches in the TEST position.
10. If the tube passes all of the above tests, press the red pushbutton switch to read the relative condition of the tube on the meter.
11. Refer to the Operating Manual for more detailed instructions.

CONAR INSTRUMENTS

DIVISION OF NATIONAL RADIO INSTITUTE, WASHINGTON, D.C. 20016

**KEY TO LETTER ABBREVIATIONS INDICATING
TUBE SECTION UNDER TEST**

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

TUBE	A	B	C	D	CATH SHORTS	TEST
OA4	4	18	-	14	2	5
OZ3	p 4	18	-	16	4	2
	p 4	18	-	16	4	3
	Cont test 1-8					
OZ4	p 4	18	-	16	8	3
	p 4	18	-	16		5
1	3	8	1	20	3	2
1AD2	4	2	*	90		10
	*3-9-12					
	Cont test 1-2-5-6-7-8-11					
1AH5	pe 2	2	7	36		4-5-6
	d 1	2	7	20		3
1AJ4	2	2	7	20		2-3-6
	Cont test 1-5					
1AN5	2	2	7	18		2-3-4-6
	Cont test 1-5					
1AU2	r 4	2	4	60		1-9
	Ignore glow on 9					
1AX2	4	2	*	42		10
	*2-5-8					
	Cont test 1-4-6-9					
1AY2	4	2	1	34		10
	Insert tube into pins 1&6 of 9 pin socket					
1B3	4	2	2	44		10
1B8	d 1	2	2	16		8
	t 2	2	2	24		6-10
	pe 2	2	2	20		3-4-5
1BC2	4	2	5-8	34		10
	Cont test 1-4-6-9					
1BG2	1	2	4	95		10
	Insert bottom leads into pins 4&5 of 9 pin socket					
	Cap goes to top lead					
1BQ2	4	2	*	44		10
	*2-5-8					
	Cont test 1-4-6-9					
1BY2	4	2	*	58		10
	*8-12 - No short test					
	Good tube reads above 30					
1C5	2	2	2	18		3-4-5
1DG3	4	1	3-5	80		10
	No short test					
	Good tube reads above 20					
1DK29	1	2	4	95		10
	Insert bottom leads into pins 4&5 of 9 pin socket					
	Cap goes to top lead					
1DN5	pe 2	2	1	26		2-3-6
	d 1	2	1	66		4
1E4	2	2	2	20		3-5
1G3	4	2	2	42		10

TUBE	A	B	C	D	CATH SHORTS	TEST
1H5	d 1	2	2	16		5
	p 1	2	2	10		3-10
1J3	4	2	2	70		10
1K3	4	2	2	94		10
1N2	4	2	2	74		10
1R5	1	2	7	10		2-3-4-6
	Cont test 1-5					
1S2	4	2	*	34		10
	*2-5-8					
	Cont test 1-4-6-9					
1S4	2	2	7	28		2-3-4-6
	Ignore glow on 2					
	Cont test 1-2-5-6					
1S5	pe 1	2	1	10		4-5-6
	d 1	2	1	20		3
1T4	2	2	7	20		2-3-6
	Cont test 1-5					
1U4	2	2	7	20		2-3-6
	Cont test 1-5					
1U5	pe 2	2	1	22		2-3-6
	d 1	2	1	20		4
1V2	1	1	4	76		1-8-9
	Must show short on 1-9					
	Ignore glow on 1-8					
	Good tube reads above 20					
1X2	4	2	*	40		10
	*2-5-8					
	Cont test 1-2-4-5-6-8-9					
2A3	3	4	1	20		2-3
2AH2	4	4	*	50		10
	*3-9-12					
	Cont test 1-2-5-6-7-8-11					
2AS2	4	4	*	30		10
	*3-8-12					
	Cont test 1-2-5-6-7-8-11					
	May glow on 3					
2AV2	4	3	4	36		1-9
	Ignore glow on 1					
	Cont test 1-9					
2AZ2	4	3	*	36		10
	*2-5-8					
	Cont test 1-6-9					
2BA2	4	3	4	28		1-9
	Ignore glow on 1					
	Cont test 1-9					
2BJ2	4	3	*	36		10
	*2-5-8					
	Cont test 1-4-6-9					
2BN4	2	3	3	14	1-6	2-5-7
	Ignore glow on 2					
	Cont test 1-2-6-7					

TUBE	A	B	C	D	CATH. SHORTS	TEST
2BU2	4	3	*	30	**	10
	*8-12					
	**1-2-5-7-9					
	Cont test 1-2-5-7-8-9-12					
2CN3	4	2	2	30		10
	Cont test 3-5					
2CW4	1	3	10	10	8	2-4
2CY5	2	4	3	14	2-7	1-5-6
2DL4	2	3	4	16	2	*
	*1-3-6-7-8-9					
	Ignore glow on 1-3-6-7-8					
	Cont test 1-3-6-7-9					
2DS4	1	3	10	8	8	2-4
2DV4	1	3	10	8	7	1-2-4-6
	Ignore glow on 1-4					
2DZ4	3	4	4	16	5	1-2-6-7
	Cont test 1-7 & 2-6					
2EG4	1	2	10	10	8	2-4
2EV5	3	3	3	26	2-7	1-5-6
	Cont test 2-7					
2FH5	2	4	3	14	1-7	2-5
	Cont test 1-7					
2FQ5	2	4	3	12	1-7	2-5
	Cont test 1-7					
2FS5	2	4	3	14	2-7	1-5-6
	Cont test 2-7					
2FV6	2	4	3	14	7	1-5-6
2FY5	2	4	3	14	1-7	2-5
	Cont test 1-7					
2GK5	2	4	3	14	1-7	2-5
	Cont test 1-7					
2GU5	2	4	4	14	2-7	1-5-6
	Cont test 2-7					
2GW5	t	2	4	3	16	5
	Ignore glow on 2					
2HA5	3	4	4	14	2-7	1-5
	Cont test 2-7					
2HK5	2	4	4	14	2-7	1-5
	Cont test 2-7					
2HM5	3	4	4	14	2-7	1-5
	Cont test 2-7					
2HQ5	t	2	4	3	14	2-7
	Ignore glow on 2-7					
2HR8	2	4	4	18	3	1-6-9
	Cont test 2-7					
2W3	2	4	2	20		4
2X3	3	4	2	30		4
2Y3	3	4	2	28		4
2Z2	3	4	1	40		2
3A3	4	5	2	58		10
3AL5	d	1	5	3	8	1
	d	1	5	3	8	5
3AT2	4	5	*	46		10
	*8-12					
	Cont test 1-2-5-6-8-9-12					
3AU6	3	5	3	14	7	1-2-5-6
3AV6	t	3	5	3	22	2
	d	1	5	3	16	5
	d	1	5	3	16	6
3AW2	4	5	*	26		10
	*8-12 - Cont test 2-5-6-9					

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TUBE	A	B	C	D	CATH SHORTS	TEST
3AW3	4	5	2	58		10
3BC5	2	5	3	14	2-7	1-5-6
	Cont test 2-7					
3BE6	to	2	5	3	16	2
	t	2	5	3	18	
						1-5-6-7
						1-6
▲3BH2	4	4	*	31		10
	*2-4-8					
3BL2	4	5	*	50		10
	*8-12					
	Cont test 1-2-5-6-9					
3BM2	4	5	*	22		10
	*8-12					
	Cont test 2-5-6-8-9					
3BN2	4	5	*	34		10
	*8-12					
	Cont test 2-5-6-9					
3BN4	2	4	3	14	1-6	2-5-7
	Ignore glow on 2					
	Cont test 2-7					
3BN6	4	5	3	38	1	2-5-6-7
3BS2	4	5	*	28		10
	*8-12					
	Cont test 2-5-6-9					
3BT2	4	4	*	37	**	10
	*8-12					
	**1-2-5-6-9					
	Cont test 1-2-5-6-8-9-12					
3BU8	s	2	5	4	14	1
	s	2	5	4	14	
						2-7-8-9
						2-3-6-7
3BW2	4	4	*	37	**	10
	*8-12					
	**1-2-5-6-9					
	Cont test 1-2-5-6-8-9-12					
3BY6	s	3	5	3	16	2
	s	3	5	3	16	
						1-5-6-7
3BY7	2	5	4	14	1-3	2-7-8
	Cont test 1-3					
3BZ6	2	5	3	14	2	1-5-6-7
3CA3	d	4	5	2	45	10
3CB6	2	5	3	14	2	1-5-6-7
3CE5	2	5	3	14	2-7	1-5-6
	Cont test 2-7					
3CF6	2	5	3	14	2	1-5-6-7
3CN3	4	5	2	30		10
	Cont test 3-5					
3CU3	4	5	2	28		10
	Cont test 8					
3CX3	4	5	3	34	*	10
	*3-4-6-8					
3CY3	4	5	2	36	*	10
	*1-2-3-5-7					
	Must show short on 1-2-3-5-7					
3CY5	2	4	3	14	2-7	1-5-6
3CZ3	4	5	2	38	*	10
	*2-7-8					
3D6	2	2	7	16		2-3-6
	Cont test 1-8					
3DB3	4	5	2	52	*	10
	*1-2-3-5-7					
3DC3	4	4	2	28		10
	Must show short 1-2-3-5-7					

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TUBE	A	B	C	D	CATH SHORTS	TEST
3DF3	4	5	3-5	24		10
	Good tube reads above 30					
	No short test					
3DG4	p 2	5	1	14		7
	p 2	5	1	14		5
3DH3	4	5	3-5	36		10
	Cont test 3-4-5-6-8					
	No short test					5
3DJ3	1	3	2	88		10
	Good tube reads above 20					
	No short test					
3DK6	2	5	3	14	2	1-5-6-7
3DS3	4	5	35	36		10
	No short test					
3DT6	2	5	3	16	2	1-5-6-7
3DZ4	3	5	4	16	5	1-2-6-7
	Cont test 1-7 & 2-6					
3EH7	2	5	4	17	1-3	2-7-8-9
	Cont test 1-3					
3EJ7	2	5	4	12	1-3	2-7-8-9
	Cont test 1-3					
3ER5	2	4	3	14	1-7	2-5-6
	Cont test 1-7					
3ES5	2	5	3	14	1-7	2-5-6
	Cont test 1-7					
3EV5	1	4	3	10	2-7	1-5-6
	Cont test 2-7					
3FH5	2	5	3	14	1-7	2-5
	Cont test 1-7					
3FQ5	2	4	3	14	1-7	2-5
	Cont test 1-7					
3FS5	2	5	3	14	2-7	1-5-6
	Cont test 2-7					
3FY5	2	5	3	14	1-7	2-5
	Cont test 1-7					
3GK5	2	4	3	14	1-7	2-5
	Cont test 1-7					
3GS8	pe 2	5	4	14	1	2-7-8-9
	pe 2	5	4	14		2-3-6-7
3GU5	2	5	4	14	2-7	1-5-6
	Cont test 2-7					
3GW5	t 2	4	3	16	5	1-2-6
	Ignore glow on 2					
3HA5	3	5	4	14	2-7	1-5
	Cont test 2-7					
3HK5	2	5	4	14	2-7	1-5
	Cont test 2-7					
3HM5	3	5	4	14	2-7	1-5
	Cont test 2-7					
3HM6	pe 3	5	4	14	1-3	2-7-8-9
3HQ5	t 2	5	3	14	2-7	1-5
	Ignore glow on 2-7					
3HS8	pe 3	5	4	18	1	2-3-6-7
	pe 3	5	4	18	1	2-7-8-9
3HT6	p 3	4	4	14	1-3	2-7-8-9
	Ignore glow on 1					
3JC6	2	5	5	14	1-3	2-7-8
	Cont test 1-3					
3JD6	3	5	5	14	1-3	2-7-8
	Cont test 1-3					

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TUBE	A	B	C	D	CATH SHORTS	TEST
3KF8	pe 3	6	4	14	1	2-3-6-7
	pe 3	6	4	14	1	2-7-8-9
3KT6	2	5	4	16	1-3	2-7-8
3M-P26	3	5	3	16	2	1-5-6
3M-R24	2	5	3	18	2	1-5-6-7
3M-V7	2	5	3	18	2	1-5-6-7
3Q4	2	2	5	18		2-3-4-6
	Ignore glow on 2					
	Cont test 1-2-6-7					
3Q5	3	2	8	26		3-4-5
	Cont test 2-7					
3S4	2	2	5	18		2-3-4-6
	Ignore glow on 2					
	Cont test 1-2-6-7					
3V4	2	2	5	18		2-3-6
	Cont test 1-7					
4AB8	t 2	6	4	18	3	1-2
	pe 2	6	4	16		6-8-9
4AF4	2	6	3	14	5	1-2-6-7
	Ignore glow on 1-2					
	Cont test 1-2-6-7					
4AU6	3	6	3	14	7	1-2-5-6
4AV6	t 2	6	3	16	2	1-7
	d 1	6	3	16		5
	d 1	6	3	16		6
4BC5	2	6	3	14	2-7	1-5-6
4BC8	t 2	6	4	14	8	6-7
	t 2	6	4	14	3	1-2
4BE6	to 2	6	3	16	2	1-5-6-7
	t 2	6	3	20		1-6
4BL8	t 2	7	4	14	8	1-9
	p 2	7	4	14	7	2-3-6
4BN4	2	6	3	14	1-6	2-5-7
	Cont test 1-2-6-7					
	Ignore glow on 2					
4BN6	4	6	3	38	1	2-5-6-7
4BQ7	t 2	6	4	14	8	6-7
	t 2	6	4	14	3	1-2
4BS8	t 2	6	4	14	8	6-7
	t 2	6	4	14	3	1-2
4BU8	pe 2	6	4	14	1	2-7-8-9
	pe 2	6	4	14		2-3-6-7
4BX8	t 2	6	4	14	8	6-7
	t 2	6	4	14	3	1-2
4BZ6	2	6	3	14	2	1-5-6-7
4BZ7	t 2	6	4	14	8	6-7
	t 2	6	4	14	3	1-2
4BZ8	t 2	6	4	14	8	1-2
	t 2	6	4	14	3	6-7
4CB6	2	6	3	14	2	1-5-6-7
4CE5	2	6	3	14	2-7	1-5-6
4CY5	2	7	3	14	2-7	1-5-6
	Cont test 2-7					
4DE6	2	6	3	14	2	1-5-6
4DK6	2	6	3	14	2	1-5-6-7
4DT6	2	6	3	14	2	1-5-6-7
4EH7	2	6	4	17	1-3	2-7-8-9
	Cont test 1-3					
4EJ7	2	6	4	12	1-3	2-7-8-9
	Cont test 1-3					

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TUBE	A	B	C	D	CATH SHORTS	TEST
4ES8	t	2	6	4	12	8 6-7
	t	2	6	4	12	3 1-2
4EW6		2	6	3	12	2 1-5-6
4GJ7	t	2	6	4	14	1-3 8-9
	pe	3	6	4	14	2-6-7
	Cont test 1-3					
4GK5		2	6	4	14	1-7 2-5
	Cont test 1-7					
4GM6		2	6	3	12	2 1-5-6-7
4GS7	t	2	6	4	18	3-8 1-2
	pe	2	6	4	16	6-7-9
	Cont test 3-8					
4GS8	pe	2	6	4	14	1 2-7-8-9
	pe	2	6	4	14	2-3-6-7
4GW5	t	2	6	3	16	5 1-2-6
	Ignore glow on 2					
4GX6		1	6	4	8	2 1-5-6-7
4GX7	t	2	6	4	16	1 8-9
	pe	3	6	4	14	3 2-6-7
	Ignore glow on 1-3					
4GZ5		3	6	4	14	1 2-5-6-7
	Cont test 2-5					
4HA5	t	2	6	3	70	2-7 5-6
	Ignore glow on 7					
4HA7	pe	2	6	12	18	3 2-11
	pe	2	6	12	18	4 9-10
4HC7	t	2	6	1	18	4 7-9-10
	t	2	6	1	18	3 2-11
	Ignore glow on 7-10					
4HG8	t	2	6	4	14	1 6-7
	pe	2	6	4	14	1 2-8-9
	Ignore glow on 1					
4HK5		2	6	4	14	2-7 1-5
	Cont test 2-7					
4HM5	t	2	6	4	14	2-7 1-5
	Ignore glow on 2					
4HM6		2	6	5	14	1-3 2-7-8-9
	Cont test 1-3					
4HQ5	t	2	6	3	14	2-7 1-5
	Ignore glow on 2-7					
4HS8	pe	2	6	4	14	1 2-7-8-9
	pe	2	6	4	14	2-3-6-7
4HT6	p	3	6	4	14	1-3 2-7-8-9
	Ignore glow on 1					
4JC6		2	6	5	14	1-3 2-7-8-9
	Cont test 1-3					
4JD6		3	6	5	14	1-3 2-7-8-9
	Cont test 1-3					
4JH6		3	6	3	14	2 1-5-6
4JK6		2	6	4	14	2 1-5-6-7
4JK8	t	2	6	5	14	3 1-2
	t	1	6	5	8	8 6-7
4JL6		3	6	4	14	2 1-5-6-7
4KE8	pe	2	6	5	14	7 2-3-6
	t	2	6	5	16	8 1-9
4KF8	pe	3	6	4	14	1 2-3-6-7
	pe	3	6	4	14	1 2-7-8-9
4KN8	t	2	6	4	16	8 6-7
	t	2	6	4	16	3 1-2
4KT6		2	6	4	16	1-3 2-7-8

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TUBE	A	B	C	D	CATH SHORTS	TEST
4LJ8	t	2	6	4	14	3-8 1-2
	pe	3	6	4	14	6-7-9
	Cont test 3-8					
4LU6		2	6	3	18	2 1-5-6-7
4MK8	pe	2	6	4	16	1 2-7-8
	pe	2	6	4	16	2-3-7
4M-P12		2	6	3	18	2 1-5-6
4M-P26		3	6	3	16	2 1-5-6
4R-HH2	t	2	6	4	14	8 6-7
	t	2	6	4	14	3 1-2
4R-HH8	t	2	6	4	16	8 6-7
	t	2	6	4	16	3 1-2
5AF4		2	7	3	14	5 1-2-6-7
	Ignore glow on 1-2					
	Cont test 1-2-6-7					
5AM8	pe	2	7	4	14	1 2-3-6-9
	d	1	7	4	8	7 8
5AN8	t	2	7	4	16	3 1-2
	pe	2	7	4	16	9 6-7-8
5AQ4	pe	4	7	2	12	4
	pe	4	7	2	12	6
5AQ5		3	7	3	20	2 1-5-6-7
	Ignore glow on 1					
	Cont test 1-7					
5AR4	p	4	7	2	12	4
	p	4	7	2	12	6
5AS4	p	3	7	2	14	4
	p	3	7	2	8	6
5AS8	pe	2	7	4	12	3 1-2-9
	d	1	7	4	8	8 6
5AT8	t	2	7	4	14	3 1-2
	pe	2	7	4	14	6-7-8-9
5AU4	p	4	7	2	14	4
	p	4	7	2	14	6
5AV8	t	2	7	4	14	1 2-3
	pe	2	7	4	14	7 6-8-9
5AW4	p	4	7	2	14	4
	p	4	7	2	14	6
5AX4	p	3	7	2	32	4
	p	3	7	2	32	6
5AZ4	p	3	7	2	34	4
	p	3	7	2	34	6
5B8	t	2	7	4	14	1-7 2-3
	pe	2	7	4	14	6-8-9
●5BC3		3	7	3	18	5-6-8-9
	Cont test 5-6 & 8-9					
5BC8	t	2	7	4	14	8 6-7
	t	2	7	4	14	3 1-2
5BE8	t	2	7	4	14	3 1-2
	pe	2	7	4	14	8 6-7-9
5BK7	t	2	7	4	14	8 6-7
	t	2	7	4	14	3 1-2
5BQ7	t	2	8	4	14	8 6-7
	t	2	8	4	14	3 1-2
5BR8	t	2	7	4	14	3 1-2
	pe	2	7	4	14	8 6-7-9
5BS8	t	2	7	4	14	8 6-7
	t	2	7	4	14	3 1-2

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TUBE	A	B	C	D	CATH SHORTS	TEST
5BT8	pe	2	7	4	14	9 6-7-8
	d	1	7	4	10	3 2
	d	1	7	4	10	1
5BW8	pe	2	7	4	14	7 6-8-9
	d	1	7	4	8	2 3
	d	1	7	4	8	1
	May show short on 7					
5BZ7	t	2	8	4	14	8 6-7
	t	2	8	4	14	3 1-2
5CG8	t	2	7	4	14	3-8 1-2
	pe	2	7	4	14	6-7-9
	Cont test 3-8					
5CL8	t	2	7	4	14	3 1-2
	te	2	7	4	14	8 6-7-9
5CM6		2	7	4	16	7 1-3-6-9
	Ignore glow on 3					
	Cont test 3-6					
5CM8	t	2	7	4	16	8 1-9
	pe	2	7	4	14	3 2-6-7
5CQ8	t	2	7	4	14	8 1-9
	te	2	7	4	14	7 2-3-6
5CR8	t	2	8	4	16	8 1-9
	pe	2	8	4	14	3 2-6-7
5CX8	t	2	7	4	16	1 2-3
	pe	2	7	4	14	6 7-8-9
5CZ5		3	7	4	20	7 1-3-6-9
	Ignore glow on 3					
	Cont test 3-6					
5DH8	t	3	7	4	16	3 1-2
	pe	3	7	4	16	8 6-7-9
5DJ4	p	4	7	7-8	14	3-4
	p	4	7	7-8	14	5-6
	Cont test 3-4 & 5-6					
5EA8	pe	2	7	4	14	7 2-3-6
	t	2	7	4	14	8 1-9
5EH8	pe	3	7	4	14	1-6 7-8-9
	t	3	7	4	14	2-3
	Cont test 1-6					
5ES8	t	2	7	4	12	8 6-7
	t	2	7	4	12	3 1-2
5EU8	t	2	6	4	12	6 2-3
	pe	2	6	4	12	8 1-7-9
5EW6		2	7	3	12	2 1-5-6
5FG7	t	2	7	4	12	3-8 1-2
	pe	2	7	4	12	6-7-9
5FV8	t	2	7	4	14	3 1-2
	pe	2	7	4	14	8 6-7-9
5GH8	t	2	6	4	12	8 1-9
	pe	2	6	4	12	7 2-3-6
5GJ7	t	2	7	4	14	1-3 8-9
	pe	3	7	4	14	2-6-7
	Cont test 1-3					
5GM6		2	7	3	12	2 1-5-6-7
5GS7	t	2	7	4	18	38 1-2
	pe	2	7	4	16	6-7-9
	Cont test 3-8					
5GX6		1	7	4	8	2 1-5-6-7
5GX7	t	2	7	4	16	1 8-9
	pe	3	7	4	14	3 2-6-7
	Ignore glow on 1-3					

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TUBE	A	B	C	D	CATH SHORTS	TEST
5HA7	t	2	7	12	18	4 9-10
	t	2	7	12	18	3 2-11
5HB7	t	2	7	4	14	1-3 8-9
	pe	2	7	4	14	2-6-7
	Cont test 1-3					
5HC7	t	2	7	1	18	4 7-9-10
	t	2	7	1	18	3 2-11
	Ignore glow on 7-10					
5HG8	t	2	7	4	14	1-3 6-7
	pe	2	7	4	12	1-3 2-8-9
	Cont test 1-3					
5HZ6		1	7	4	8	2 1-5-6-7
5J6	t	2	7	3	14	7 2-5
	t	2	7	3	14	1-6
5JK6		2	7	4	14	2 1-5-6-7
5JK8	t	2	7	5	14	3 1-2
	t	1	7	5	8	8 6-7
5JL6		3	7	4	14	2 1-5-6-7
5KD8	pe	2	7	5	16	7 2-3-6
	pe	2	7	5	16	8 1-9
5KE8	pe	2	7	5	14	7 2-3-6
	t	2	7	5	16	8 1-9
5KZ8	t	2	7	4	14	8 1-9
	pe	3	7	4	14	3 2-6-7
5LJ8	t	2	7	4	14	3-8 1-2
	p	3	7	4	14	3-8 6-7-9
	Cont test 3-8					
5MB8	t	2	7	4	16	3 1-2
	pe	2	7	4	16	8 6-7-9
5MF8	t	2	6	1	16	11 2-10
	pe	2	6	1	16	9 4-6-7-8
	Ignore glow on 6					
	Cont test 6-7					
5M-HH3	t	2	7	3	14	7 2-5
	t	2	7	3	14	1-6
		1	7	3	12	5
5MK9	t	2	7	4	21	8 1-9
5MQ8	pe	2	7	4	23	7 2-3-6
5R4	p	4	7	2	14	4
	p	4	7	2	14	6
5R-DDH1	d	2	6	4	20	2 1
	d	2	6	4	18	3 6
	t	2	6	4	20	9 7-8
5R-HR1	t	2	7	4	18	8 1-9
	pe	2	7	4	16	2-3-6
5R-K16	d	2	7	4	24	1
	d	2	7	4	24	8
5T4	p	4	7	2	14	4
	p	4	7	2	14	6
5T8	t	3	7	4	28	7 8-9
	d	1	7	4	8	6
	d	1	7	4	8	3 2
	d	1	7	4	8	1
5U4	p	4	7	2	14	4
	p	4	7	2	14	6
5U8	t	2	7	4	14	8 1-9
	pe	2	7	4	14	2-3-6
5U9	t	2	8	5	18	1 9-10
	pe	2	8	5	16	2 3-7-8

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TUBE		A	B	C	D	CATH SHORTS	TEST
5V3	p	4	7	2	14		4
	p	4	7	2	14		6
5V4	p	4	7	2	12		4
	p	4	7	2	12		6
5V6		3	7	2	20	8	3-4-5
5V9	t	2	7	5	16	9	8-10
	h	2	7	5	18	1	3-4-7
5W4	p	4	7	2	14		4
	p	4	7	2	14		6
5X4	p	3	7	7	24		3
	p	3	7	7	24		5
5X8	t	2	7	4	14	6	2-3
	pe	2	7	4	14		1-7-8-9
5X9	t	2	8	5	16	1	9-10
	pe	2	8	5	16	2	3-7-8
5Y3	p	4	7	2	14		4
	p	4	7	2	14		6
5Y4	p	4	7	7	14		3
	p	4	7	7	14		5
5Z3	p	4	7	1	12		2
	p	4	7	1	12		3
5Z4	p	4	7	2	14		4
	p	4	7	2	14		6
6A7	to	2	8	1	16	6	*
	t	2	8	1	16		4-5
		*2-3-4-5-10					
6AB4		2	8	3	14	7	1-6
6AC5		3	8	2	22	8	3-5
6AC7		3	8	2	14	5	3-4-6-8
6AC9	pe	2	8	12	16	8	9-10-11
	d	1	8	12	10	4	2
		Cont test 3					
6AC10	t	2	8	12	16	4	9-10
	t	2	8	12	16	6	5-7
	t	2	8	12	16	3	2-11
6AD5		3	8	2	20	8	3-5
6AD6	e	4	8	2	0	8	3-4-5
		See instructions for eye test					
6AD7	t	2	8	2	30	8	1-6
	pe	3	8	2	24		3-4-5
6AD10	pe	2	8	12	16	2	3-6-7
	pe	2	8	12	16	9	8-10-11
6AF3		3	8	4	26	10	2-9
		Ignore glow on 2					
		Cont test 2-9					
6AF4		2	8	3	14	5	1-2-6-7
		Ignore glow on 1-2					
		Cont test 1-2-6-7					
6AF5		2	8	2	16	8	3-5
6AF6	e	4	8	2	0	8	3-4-5
		See instructions for eye test					
6AF9	pe	2	8	5	16	7	8-9-10
	pe	2	8	5	16	2	1-3-4
		Cont test 2					
6AF11	t	2	8	12	16	7	3-4
	t	2	8	12	16	5	6-8
	pe	2	8	12	14	9	2-10-11
6AG5		3	8	3	18	2-7	1-5-6
		Cont test 2-7					
6AG6		2	8	2	14	8	3-4-5

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TUBE		A	B	C	D	CATH SHORTS	TEST
6AG7		3	8	2	14	5	1-4-6-8
6AG9	t	2	8	1	16	6	5-7
	pe	2	8	1	16	9	2-10-11
6AG11	d	1	8	1	8	2	3
	d	1	8	1	8	11	10
	t	2	8	1	14	4	5-6
	t	2	8	1	14	9	7-8
6AH4		3	8	2	16	8	1-5
6AH5		3	8	2	18	8	1-4-6
6AH6		3	8	3	14	7	1-2-5-6
6AH9	t	2	8	1	18	4	2-3
	pe	2	8	1	16	7	5-6-8-11
		Ignore glow on 5					
		Cont test 5-6					
6AJ4		2	8	7	14	2	*
		*1-3-4-5-6-9					
		Ignore glow on 1-3-4-6					
		Cont test 1-3-4-6-9					
6AJ5		2	8	3	14	2-7	1-5-6
		Cont test 2-7					
6AJ7		3	8	2	14	5	3-4-6-8
6AJ8	he	2	8	5	14	3	1-2-6-7
	t	2	8	5	16		8-9
6AJ9	t	2	8	5	18	1	9-10
	pe	2	8	5	18	2	3-7-8
6AK5		2	8	3	16	2-7	1-5-6
		Cont test 2-7					
6AK6		3	8	3	22	7	1-2-5-6
6AK7		3	8	2	16	5	1-4-6-8
6AK8	t	3	8	4	20	7	8-9
	d	1	8	4	14		6
	d	1	8	4	8	3	2
	d	1	8	4	8		1
6AK9	t	2	8	1	20	7	2-3
	pe	2	8	1	20	7	5-8-9
	t	2	8	1	20	7	10-11
6AK10	t	2	8	1	20	4	9-10
	t	2	8	1	20	6	5-7
	t	2	8	1	20	3	2-11
6AL3		2	8	4	12	10	3-8-9
		Ignore glow on 3-8					
		Cont test 1-2-3-6-7-8-9					
6AL5	d	1	8	3	8	1	7
	d	1	8	3	8	5	2
6AL6		3	8	2	20	8	4-5-10
6AL7	e	1	8	*	0	8	**
		*2-4-5-6					
		**1-3-4-5-6					
		See instructions for eye test					
6AL9	t	2	8	1	20	6	5-7
	pe	2	8	1	20	9	2-4-10-11
6AL11	pe	3	8	12	14	9	8-10-11
	pe	2	8	12	16	2	3-4-6-7
6AM4		2	8	7	14	2	*
		*1-3-4-5-6-9					
		Ignore glow on 1-3-4-6					
		Cont test 1-3-4-6-9					
6AM6		2	8	3	14	2	1-5-6-7
6AM8	pe	2	8	4	14	1	2-3-6-9
	d	1	8	4	8	7	8

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TUBE	A	B	C	D	CATH SHORTS	TEST
6AN8	t 2	8	4	16	3	1-2
	pe 2	8	4	16	9	6-7-8
6AQ4	2	8	3	16	25	1-6-7
	Ignore glow on 1					
	Cont test 1-2-5-6					
6AQ5	3	8	3	20	2	1-5-6-7
	Ignore glow on 1					
	Cont test 1-7					
6AQ6	t 1	8	3	8	2	1-7
	d 1	8	3	18		5
	d 1	8	3	18		6
6AQ7	t 1	8	7	10	6	4-5
	d 1	8	7	12	2	3
	d 1	8	7	12		1
6AQ8	t 2	8	5	14	8	6-7
	t 2	8	5	14	3	1-2
6AR5	3	8	3	22	2	1-5-6
6AR6	3	8	6	20	1	3-5-7
6AR8	2	8	4	14	7	3-6
6AR11	pe 2	8	12	14	6	2-3-4-5
	pe 2	8	12	14	11	7-8-9-10
6AS5	1	8	3	8	1	2-5-6-7
	Ignore glow on 2					
	Cont test 2-5					
6AS6	3	8	3	16	2	1-5-6-7
6AS7	t 3	8	7	16	3	1-2
	t 3	8	7	16	6	4-5
6AS8	pe 2	8	4	14	3	1-2-9
	d 1	8	4	8	8	6
6AS11	t 2	8	1	16	7	3-4
	t 2	8	1	14	5	6-8
	pe 2	8	1	16	9	2-10-11
6AT6	t 1	8	3	8	2	1-7
	d 1	8	3	16		5
	d 1	8	3	16		6
6AT8	t 2	8	4	14	3	1-2
	pe 2	8	4	14		6-7-8-9
6AU4	2	8	7	14	3	5
6AU5	3	8	2	18	3	1-5-8
6AU6	3	8	3	18	7	1-2-5-6
6AU7	t 3	5	9	20	8	6-7
	t 3	5	9	20	3	1-2
	Cont test 4-5					
6AU8	t 2	8	4	14	1	2-3
	pe 2	8	4	14	6	7-8-9
6AV5	3	8	2	18	3	1-5-8
6AV6	t 3	8	3	18	2	1-7
	d 1	8	3	16		5
	d 1	8	3	16		6
6AV11	t 2	8	1	16	3	2-11
	t 2	8	1	16	6	5-7
	t 2	8	1	16	4	9-10
6AW6	2	8	3	14	2	1-5-6-7
6AW8	t 2	8	4	14	1	2-3
	pe 2	8	4	14	6	7-8-9
6AX3	3	8	1	16	7	4-10
	Ignore glow on 4					
	Cont test 4-10					
6AX4	4	8	7	14	3	5
6AX5	p 4	8	2	14	8	5
	p 4	8	2	14		3

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TUBE	A	B	C	D	CATH SHORTS	TEST
6AX7	t 3	5	9	20	8	6-7
	t 3	5	9	20	3	1-2
	Cont test 4-5					
6AX8	t 2	8	4	14	8	1-9
	pe 2	8	4	14	7	2-3-6
●6AY3	4	8	4	14	9	2-7
	Ignore glow on 2-7					
6AY11	d 1	8	1	10	2	3
	d 1	8	1	10	11	10
	t 2	8	1	14	4	5-6
	t 2	8	1	14	9	7-8
6AZ8	t 2	8	4	14	7	8-9
	p 2	8	4	14	3	1-2-6
6B10	t 2	8	12	16	2	3-4
	t 2	8	12	16	7	5-6
	d 1	8	12	10	9	8
	d 1	8	12	10	9	10
6B32	d 1	8	3	8	1	7
	d 1	8	3	8	5	2
●6BA3	3	8	5	18	9	2-7
	Cont test 2-7					
6BA8	t 3	8	4	16	1	2-3
	pe 2	8	4	14	6	7-8-9
6BA11	pe 2	8	12	16	8	2-3-4-5
	pe 2	8	12	16	8	3-4-6-7
	t 2	8	12	18	10	9-11
▲6B-B14	2	8	4	14	38	*
	*1-2-6-7-10					
	Ignore glow on 1-6					
	Cont test 1-2-3-6-7-8					
6BC4	2	8	4	14	6	*
	*1-2-3-7-8-9					
	Ignore glow on 1-2-3-7					
	Cont test 1-2-3-7-8-9					
6BC5	2	8	3	14	2-7	1-5-6
	Cont test 2-7					
6BC7	d 1	8	4	8	9	8
	d 1	8	4	8	7	6
	d 1	8	4	8	1	2
6BC8	t 2	8	4	14	8	6-7
	t 2	8	4	14	3	1-2
6BD6	2	8	3	17	7	1-2-5-6
6BD11	t 3	8	1	18	7	3-4
	t 2	8	1	14	5	6-8
	pe 2	8	1	14		2-10-11
6BE3	1	8	1	8	7	4-10
	Ignore glow on 4					
6BE6	to 2	8	3	14	2	1-5-6-7
	t 2	8	3	16		1-6
6BE7	2	8	4	16	38	1-6-7
	Cont test 3-8					
6BE8	t 2	8	4	14	3	1-2
	p 2	8	4	14	8	6-7-9
6BF5	3	8	3	16	2	1-5-6-7
	Ignore glow on 1					
	Cont test 1-7					
6BF6	t 3	8	3	22	2	1-7
	d 1	8	3	18		5
	d 1	8	3	18		6

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TUBE	A	B	C	D	CATH SHORTS	TEST
6BF8	d	2	8	5	16	1
	d	2	8	5	16	2
	d	2	8	5	16	3
	d	2	8	5	16	7
	d	2	8	5	16	8
	d	2	8	5	16	9
6BF11	pe	2	8	12	16	2
	pe	3	8	12	14	9
6BG6		3	8	2	18	3
●6BH3		4	8	5	14	9
	Ignore glow on 2					
6BH6		2	8	3	14	2
6BH8	t	2	8	4	14	1
	pe	2	8	4	14	6
6BH11	t	2	8	1	14	2
	t	2	8	1	14	5
	pe	2	8	1	14	11
6BJ3		1	8	1	8	7
	Ignore glow on 4					
6BJ6		2	8	3	14	2
6BJ7	d	1	8	4	8	9
	d	1	8	4	8	7
	d	1	8	4	8	1
6BJ8	t	2	8	4	14	9
	d	1	8	4	8	3
	d	1	8	4	8	2
6BK4		1	8	7	10	*
	*1-3-4-6-8					
	May show short on 1-3-4-6-8					
	Must show short on 1-3-4					
	Good tube reads above 30					
6BK5		2	8	4	14	6
	Ignore glow on 3					
	Cont test 3-7					
6BK6	t	3	8	3	16	2
	d	1	8	3	8	
	d	1	8	3	8	
6BK7	t	2	8	4	14	8
	t	2	8	4	14	3
6BK8		2	8	4	18	3
6BK11	t	2	8	12	20	4
	t	2	8	12	20	6
	t	2	8	12	20	3
6BL7	t	3	8	7	12	3
	t	3	8	7	12	6
6BL8	t	2	7	4	14	8
	p	2	7	4	14	7
6BM8	t	2	8	4	14	8
	pe	2	8	4	14	2
6BN4		2	8	3	14	1-6
	Ignore glow on 2					
	Cont test 2-7					
6BN5		3	8	4	18	3
	*1-2-6-7-8-9					
	Ignore glow on 1-6					
	Cont test 1-2-6-8					
6BN6		4	8	3	38	1
6BN7	t	3	8	4	16	6
	t	2	8	4	18	3

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TUBE	A	B	C	D	CATH SHORTS	TEST
6BN8	t	2	8	4	14	9
	d	1	8	4	8	3
	d	1	8	4	8	2
6BN11	pe	2	8	12	16	8
	pe	2	8	12	16	2
6BQ5		3	8	4	18	3
	Ignore glow on 1					
	Cont test 1-2					
6BQ6		3	8	2	18	8
6BQ7	t	2	8	4	14	8
	t	2	8	4	14	3
6BR3		3	8	4	26	10
	Ignore glow on 2					
	Cont test 2-9					
6BR5	t	3	8	4	26	2
	e	4	8	4	0	
	May show short on 3-6-9 - throw 7					
	to test, then 3-6-9 together					
	See instructions for eye test					
6BR7	t	2	5	9	14	3
	d	1	5	9	10	8
	d	1	5	9	10	
	Cont test 4-5					
6BR8	t	2	8	4	14	3
	pe	2	8	4	14	8
●6BS3	d	4	8	4	14	9
	Ignore glow on 2					
6BS8	t	2	8	4	14	8
	t	2	8	4	14	3
6BT6	t	2	8	3	18	2
	d	1	8	3	18	
	d	1	8	3	18	
6BT8	pe	2	8	4	14	9
	d	1	8	4	10	3
	d	1	8	4	10	
6BU6	t	3	8	3	22	2
	d	1	8	3	12	
	d	1	8	3	12	
6BU8	pe	2	8	4	14	1
	pe	2	8	4	14	
6BV8	t	2	8	4	14	1
	d	1	8	4	8	7
	d	1	8	4	8	8
6BV11	pe	2	8	1	16	8
	pe	2	8	1	16	5
6BW3		3	8	12	16	7
	Ignore glow on 4					
6BW4	p	3	8	4	22	9
	p	3	8	4	22	
6BW8	pe	2	8	4	14	7
	d	1	8	4	8	2
	d	1	8	4	8	
	May show short on 7					
6BW11	pe	2	8	1	16	10
	pe	2	8	1	16	2
6BX6		2	7	4	14	1-3
	Must show short on 1-3					
	Cathode short test - throw 1-3					
	together					

▲ - USE MAGNOVAL SOCKET

TUBE	A	B	C	D	CATH SHORTS	TEST
6BX7	t	2	8	7	14	6 4-5
	t	2	8	7	14	3 1-2
6BX8	t	2	8	4	14	8 6-7
	t	2	8	4	14	3 1-2
6BY5	p	3	8	2	20	8 5
	p	3	8	2	20	1 4
6BY6	s	3	8	3	16	2 1-6
	s	3	8	3	16	1-5-6-7
6BY7		2	8	4	14	1-3 2-7-8
	Must show short on 1-3 - Cathode short test - throw 1-3 together					
6BY8	pe	3	8	4	16	9 1-2-7-8
	d	1	8	4	8	3 6
6BY11	pe	2	8	1	16	2 3-5-6-7
	pe	2	8	1	16	9 8-10-11
6BZ3		4	8	1	12	7 4-10
	Ignore glow on 4					
6BZ6		2	8	3	14	2 1-5-6-7
6BZ7	t	2	8	4	14	8 6-7
	t	2	8	4	14	3 1-2
6BZ8	t	2	8	4	14	3 1-2
	t	2	8	4	14	8 6-7
6C4		2	8	3	16	7 1-5-6
	Ignore glow on 1					
	Cont test 1-5					
6C5		2	8	2	16	8 3-5
6C9	te	3	8	5	14	10 1-2-3
	te	3	8	5	14	6 7-8-9
6C10	t	2	8	12	16	3 2-11
	t	2	8	12	16	6 5-7
	t	2	8	12	16	4 9-10
6CA4	p	3	8	4	18	3 1
	p	3	8	4	18	7
6CA5		3	8	3	18	1 2-5-6-7
	Ignore glow on 2					
	Cont test 2-5					
6CA7		3	8	7	16	8 1-3-4-5
6CA11	t	1	8	1	10	7 2-3
	t	1	8	1	10	5 4-6
	pe	1	8	1	10	9 8-11
	May show short 7					
6CB6		2	8	3	14	2 1-5-6-7
6CD3		4	8	12	14	7 4-10
	Ignore glow on 4					
6CD6		3	8	2	16	3 5-8-10
6CE3		4	8	12	14	7 4-10
	Ignore glow on 4					
6CE5		2	8	3	14	2-7 1-5-6
	Cont test 2-7					
6CF6		2	8	3	14	2 1-5-6-7
6CF8		2	8	4	16	3 1-6-9
	Cont test 2-7					
6CG3		4	8	12	14	7 4-10
	Ignore glow on 4					
6CG7	t	3	8	4	22	8 6-7
	t	3	8	4	22	3 1-2
6CG8	t	2	8	4	14	3-8 1-2
	pe	2	8	4	14	6-7-9
	Cont test 3-8					
●6CH3		3	8	4	14	9 2-7
	Ignore glow on 2 - Cont test 2-7					

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TUBE	A	B	C	D	CATH SHORTS	TEST
6CH6		3	8	4	14	3 2-7-8
6CH7	t	2	8	4	14	8-9 6-7
	t	2	8	4	3	1-2
	Cont test 8-9					
6CH8	t	2	8	4	16	1 8-9
	pe	2	8	4	14	6 2-3-7
●6CJ3		4	8	4	12	9 2-7
	Ignore glow on 2					
6CJ6		3	8	4	12	3 2-7-8-10
	Ignore glow on 7					
	Cont test 1-6-7-8-9					
●6CK3		4	8	4	14	9 2-7
	Ignore glow on 2					
	Cont test 2-7					
6CK4		2	8	2	14	8 1-3-5
	Ignore glow on 1					
	Cont test 1-3					
●6CL3		4	8	4	14	9 2-7
	Ignore glow on 2					
	Cont test 2-7					
6CL5		3	8	2	14	3-6 *
	*1-4-5-8-10					
	Ignore glow on 1-4					
	Cont test 1-3-4-5-6-8					
6CL6		2	8	4	14	1 2-3-8-9
	Ignore glow on 2-3					
	Cont test 2-3-8-9					
6CL8	t	2	8	4	14	3 1-2
	t	2	8	4	14	8 6-7-9
●6CM3		4	8	4	14	9 2-7
	Ignore glow on 2					
	Cont test 2-7					
6CM6		2	8	4	14	7 1-3-6-9
	Ignore glow on 3					
	Cont test 3-6					
6CM7	t	2	8	4	16	3 6-7
	t	3	8	4	18	9 1-8
6CM8	t	2	8	4	16	8 1-9
	pe	2	8	4	14	3 2-6-7
6CN6		3	7	2	14	8 4-5-10
6CN7	t	2	5	9	18	6 7-8
	d	1	5	9	8	3 2
	d	1	5	9	8	1 1
	Cont test 4-5					
6CQ4		1	8	7	8	3 5
6CQ6		3	8	3	18	2 1-5-6-7
6CQ8	t	2	8	4	14	8 1-9
	pe	2	8	4	14	7 2-3-6
6CR6	d	1	8	3	16	1 2
	pe	2	8	3	16	5-6-7
6CR8	t	2	8	4	16	8 1-9
	pe	2	8	4	14	3 2-6-7
6CS6	to	2	8	3	14	2 1-5-6-7
6CS7	t	3	8	4	18	9 1-3
	t	3	8	4	22	8 6-7
6CT3		4	8	4	14	9 2-6
	Cont test 2-6					
	Ignore glow on 2					
6CU5		3	8	3	16	1 2-5-6-7
	Ignore glow on 2					
	Cont test 2-5					

▲ - USE MAGNOVAL SOCKET

TUBE	A	B	C	D	CATH SHORTS	TEST
6CU6	3	8	2	16	8	4-5-10
6CU8	pe 3	8	4	16	6	2-3-7
	t 2	8	4	14	1	8-9
	May show short on 1					
6CV7	t 2	8	1	16	7	2-3
	d 1	8	1	12		5
	d 1	8	1	12		6
6CW4	1	8	10	10	8	2-4
6CW5	2	8	4	14	3	*
	*1-2-6-7-8-9					
	May show short on 1-2-6-7-8-9					
	Ignore glow on 1-6-7					
6CW7	t 2	8	4	14	7-8	6-9
	t 2	8	4	14	1	2-3
	Cont test 7-8					
6CX8	t 2	8	4	14	1	2-3
	pe 2	8	4	14	6	7-8-9
6CY5	2	8	3	14	2-7	1-5-6
	Cont test 2-7					
6CY7	t 2	8	4	18	8	6-7
	t 2	8	4	14	9	1-2-3
	Ignore glow on 2					
	Cont test 2-3					
6CZ5	3	8	4	20	7	1-3-6-9
	Ignore glow on 3					
	Cont test 3-6					
6D10	t 2	8	12	14	3	2-11
	t 2	8	12	14	6	5-7
	t 2	8	12	14	4	9-10
6DA4	3	8	7	16	3	5
6DB5	3	8	4	18	2-7	1-3-6-9
	Ignore glow on 3					
	Cont test 2-3-6-7					
6DB6	2	8	3	14	2	1-5-6-7
6DC6	2	8	3	14	2	1-5-6
6DC8	pe 2	8	4	14	3	1-2-6
	d 1	8	4	12		7
	d 1	8	4	12		8
6DE4	4	8	7	14	3	5
6DE6	2	8	3	14	2	1-5-6
6DE7	t 3	8	4	20	8	6-7
	t 3	8	4	14	9	1-2-3
	Ignore glow on 2					
	Cont test 2-3					
6DG6	3	8	2	18	8	3-4-5
6DJ8	t 2	8	4	14	8	6-7
	t 2	8	4	14	3	1-2
6DK6	2	8	3	14	2	1-5-6-7
●6DL3	2	8	4	18	10	2-7
	Must show short on 2-7					
6DL5	2	7	3	14	2	1-5-6-7
	Ignore glow on 1					
6DM4	4	8	8	14	3	5
●6DN3	2	8	5	16	9	2-7
	Ignore glow on 2-7					
6DN6	2	8	2	14	3	5-8-10
6DN7	t 2	8	7	16	6	4-5
	t 2	8	7	16	3	1-2
6DQ4	4	8	8	14	3	5

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TUBE	A	B	C	D	CATH SHORTS	TEST
6DQ5	3	8	2	14	3-6	*
	*1-4-5-8-10 - Ignore glow on 1-4					
	Cont test 1-3-4-5-6-8					
6DQ6	3	8	2	16	8	4-5-10
6DR4	2	8	4	18	7	1-5-6
	Ignore glow on 1					
6DR7	t 2	8	4	18	8	6-7
	t 2	8	4	14	9	1-2-3
	Ignore glow on 2 - Cont test 2-3					
6DR8	pe 2	8	4	14	3	1-2-6
	d 1	8	4	12		8
6DS4	1	8	10	8	8	2-4
6DS5	2	8	3	16	2	1-5-6-7
	Ignore glow on 1 - Cont test 1-7					
6DS8	h 2	8	4	14	3	1-2-6-7
	t 2	8	4	14		8-9
6DT3	4	8	12	14	7	4-10
	Cont test 4-10					
6DT4	d 4	8	7	14	3	1-5
	Ignore glow on 1-5					
6DT5	2	8	4	16	7	1-3-6-9
	Ignore glow on 3 - Cont test 3-6					
6DT6	2	8	3	14	2	1-5-6-7
6DT8	t 2	8	4	14	8	6-7
	t 2	8	4	14	3	1-2
6DV4	1	8	10	8	7	1-2-4-6
	Ignore glow on 1-4					
●6DW4	d 4	8	4	14	9	2-7
	Ignore glow on 2 - Cont test 2-7					
6DW5	2	8	4	14	7	1-3-6-9
	Ignore glow on 3 - Cont test 3-6					
6DX8	t 2	8	4	14	3	1-2
	pe 2	8	4	14	7	6-8-9
6DY7	pe 2	8	2	16	8	5-6
	pe 2	8	2	16		1-3
6DZ4	3	8	4	16	5	1-2-6-7
	Cont test 1-7 & 2-6					
6DZ7	pe 3	8	2	16	8	4-5-6
	pe 3	8	2	16		1-3-4
6DZ8	t 2	8	4	22	8	1-9
	pe 2	8	4	20	2	3-6-7
6E5	t 2	8	1	20	5	2-3
	e 4	8	1	0		2-4
	See instructions for eye test					
6EA4	2	8	12	34	*	6-10
	*2-5-9-11 - Cont test 2-5-9-11					
6EA5	2	8	3	14	2-7	1-5-6
	Cont test 2-7					
6EA7	t 3	8	7	14	6	4-5
	t 4	8	7	14	3	1-2
6EA8	pe 2	8	4	14	7	2-3-6
	t 2	8	4	14	8	1-9
6EB5	d 1	8	3	10	1	7
	d 1	8	3	10	5	2
6EB8	t 2	8	4	14	1	2-3
	p 2	8	4	14	6	7-8-9
▲6EC4	4	8	4	14	10	2-7-8
	Ignore glow on 2-7					
	Cont test 2-7-8					

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TUBE	A	B	C	D	CATH SHORTS	TEST
▲6ED4	2	8	4	26	1	8-10
	Cont test 1-2-3-6-7-9					
6EH4	2	8	1	34	*	6-10
	*2-5-9-11					
	Cont test 2-5-9-11					
6EH5	2	8	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5					
6EH7	2	8	4	17	1-3	2-7-8-9
	Must show short on 1-3					
6EH8	pe	3	8	4	14	7-8-9
	t	3	8	4	14	2-3
	Cont test 1-6					
6EJ4	2	8	1	30	5	6-10
	Cont test 2-9-11					
6EJ7	2	8	5	14	1-3	2-7-8-9
	Cont test 1-3					
6EL4	1	8	7	18	*	5-10
	*1-3-4-6-8					
	Must show short on 1-3-4					
	May show short on 1-3-4-6-8					
6EM5	3	8	4	16	7	1-3-6-9
	Ignore glow on 3 - Cont test 3-6					
6EM7	t	2	8	7	16	4-5
	t	2	8	7	14	3
	Cont test 1-2					
6EN4	2	8	7	30	*	5-6-10
	*Cathode short test - throw					
	1-3-4-8 together					
	Grid short test - throw 5-6					
	together					
6EQ7	d	1	8	4	20	3
	pe	2	8	4	14	8
	Cont test 1-2-6-7					
6ER5	2	8	3	14	1-7	2-5-6
	Cont test 1-7					
6ES5	2	8	3	14	1-7	2-5
	Cont test 1-7					
6ES6	2	8	3	14	2	1-5-6
6ES8	t	2	8	4	14	8
	t	2	8	4	14	3
	Cont test 1-2					
6ET6	2	7	3	14	2	1-5-6
6ET7	pe	2	8	4	14	6
	d	1	8	4	18	1
	d	1	8	4	18	2
6EU7	t	2	8	2	18	4
	t	2	8	2	18	9
	Cont test 5-6					
6EU8	pe	2	8	4	14	8
	t	2	8	4	14	6
	Cont test 1-7-9					
6EV5	1	8	3	8	2-7	1-5-6
	Cont test 2-7					
6EV7	t	2	8	4	14	8
	t	2	8	4	14	3
	Cont test 6-7					
6EW6	2	8	3	12	2	1-5-6
6EW7	t	2	8	5	14	9
	t	1	8	5	8	8
	Cont test 1-2-3					
6EX6	4	8	7	14	3	5-8-10
6EY6	2	8	2	14	8	3-4-5
6EZ5	3	8	2	14	8	3-4-5
6EZ8	t	2	8	4	18	8-9
	t	2	8	4	18	6-7
	t	2	8	4	14	1
	Cont test 2-3					
6F6	3	8	2	24	8	3-4-5

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TUBE	A	B	C	D	CATH SHORTS	TEST
6FD6	pe	3	8	3	16	7
6FD7	t	3	8	4	20	8
	t	2	8	4	14	9
	Ignore glow on 2 - Cont test 2-3					
6FE5	2	8	2	12	8	3-4-5
6FG7	t	2	8	4	14	3-8
	pe	3	8	4	14	3-8
	Cont test 3-8					
6FH5	2	8	3	14	1-7	2-5
	Cont test 1-7					
6FJ7	t	2	8	12	16	9
	t	2	8	12	14	7
	Cont test 10-11					
6FM7	t	3	8	12	14	7
	t	2	8	12	18	9
	Cont test 3-8					
6FM8	t	3	8	4	20	7
	d	1	8	4	8	3
	d	1	8	4	8	1
	Cont test 2-5					
6FQ5	2	8	3	12	1-7	2-5
	Cont test 1-7					
6FQ7	t	2	8	5	18	3
	t	2	8	5	18	8
	Cont test 6-7					
6FR7	t	2	8	4	12	8
	t	2	8	4	12	9
	Ignore glow on 2					
6FS5	2	8	3	14	2-7	1-5-6
	Cont test 2-7					
6FV6	2	8	3	14	7	1-5-6
6FV8	t	2	8	4	14	3
	pe	2	8	4	14	8
	Cont test 6-7-9					
6FW5	2	8	2	12	3	1-5-8
6FW8	t	2	8	4	14	8
	t	2	8	4	14	3
	Cont test 1-2					
6FY5	2	8	3	12	1-7	2-5
	Cont test 1-7					
6FY7	t	3	8	12	14	7
	t	2	8	12	18	9
	Cont test 10-11					
6FY8	t	2	8	4	16	8
	pe	2	8	4	14	2
	Cont test 3-6-7					
6G5	t	2	8	1	20	5
	e	4	8	1	0	2-3
	Cont test 2-4					
	See instructions for eye test					
6G11	pe	2	8	1	14	2
	pe	2	8	1	14	9
	Cont test 3-4-6-7					
6GA7	d	4	8	12	14	8
	p	3	8	12	14	5
	Cont test 2-3-4-7					
6G-B3	3	8	7	16	8	4-5-10
▲6GB5	3	8	5	14	3-8	*
	*1-2-6-7-10 - Ignore glow on 1-6					
	Cont test 3-8, 1-2 & 6-7					
6G-B6	3	8	7	16	8	4-5-10
6G-B7	3	8	2	16	8	4-5-10
6GC5	3	8	5	16	7	*
	*1-3-6-8-9					
	Cont test 1-8 & 3-6					
6GC6	2	8	2	14	3	4-5-8-9
	Ignore glow on 4 - Cont test 4-8					
6GE5	3	8	1	16	4-10	*
	*2-3-7-11 - Ignore glow on 3					
6GE8	t	2	8	4	10	2
	pe	2	8	4	12	7
	Cont test 3-6					
	Cont test 1-8-9					

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TUBE	A	B	C	D	CATH SHORTS	TEST
6GF5	3	8	12	14	4-10	*
	*2-3-7-11 - Cont test 4-10 & 3-11					
●6GF7	t 1	8	5	8	1	8-9
	t 3	8	5	14	3	2-6
6GH7	2	8	4	12	1-3	2-7-8-9
6GH8	t 3	8	4	14	8	1-9
	pe 3	8	4	14	7	2-3-6
●6GJ5	3	8	5	16	3	*
	*1-2-6-7-10 - Cont test 1-7 & 2-6					
6GJ7	t 2	8	4	14	1-3	8-9
	p 3	8	4	14	1-3	2-6-7
6GK5	2	8	3	14	1-7	2-5
	Cont test 1-7					
6GK6	2	8	4	12	1	2-3-7-9
	Ignore glow on 3-9					
6G-K17	2	8	7	14	3	5
6GL7	t 2	8	8	14	3	1-2
	t 3	8	8	20	6	4-5
6GM6	2	8	3	12	2	1-5-6-7
6GN8	t 2	8	4	14	1	2-3
	pe 2	8	4	12	6	7-8-9
6GQ7	d 2	8	4	14	1	2
	d 2	8	4	14	7	6
	d 2	8	4	14	9	8
6GS7	t 2	8	4	18	38	1-2
	pe 2	8	4	16		6-7-9
	Cont test 3-8					
●6GT5	4	8	5	14	3	*
	*1-2-6-7-9 - Cont test 1-7 & 2-6					
6GU5	2	8	4	14	2-7	1-5-6
	Cont test 2-7					
6GU7	t 2	8	5	16	3	1-2
	t 2	8	5	16	8	6-7
6GV5	2	8	12	14	4-10	*
	*3-5-7-9-11					
	Cont test 4-10 & 3-7-11 & 5-9					
6GV8	t 2	8	4	14	3	1-9
	pe 3	8	4	14	8	2-6-7
6GW5	t 2	8	3	16	5	1-2-6
	Ignore glow on 2					
6GW6	3	8	7	16	8	4-5-10
6GW8	t 2	8	4	18	2	1-9
	pe 2	8	4	18	7	3-6-8
6GX6	1	8	4	8	2	1-5-6-7
6GX7	t 2	8	4	16	1-3	8-9
	pe 3	8	4	14		2-6-7
	Ignore glow on 1-3					
6GY5	2	8	12	14	4-10	*
	*3-5-7-9-11					
	Cont test 3-7-11 & 5-9 & 4-10					
6GY6	1	8	4	8	2	1-5-6-7
6GY8	t 1	8	5	8		1-2
	t 1	8	5	8	8	3-9
	t 4	8	5	48	7	6
6GZ5	pe 3	8	4	14	1	2-5-6-7
	Ignore glow on 2					
6H6	d 1	8	2	10	8	3
	d 1	8	2	10	4	5
6HA5	3	8	4	14	2-7	1-5
	Cont test 2-7					

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TUBE	A	B	C	D	CATH SHORTS	TEST
6HA6	pe 3	8	4	14	1	*
	*2-3-6-7-8-9					
	Cont test 6-8, 3-9					
6HB5	3	8	1	14	4-10	*
	*2-3-7-11 - Ignore glow on 3					
	Must show short on 4-10					
6HB6	4	8	5	12	1	*
	*2-3-6-7-8-9					
	Cont test 3-9 & 6-8					
6HB7	t 2	8	4	14	1-3	8-9
	pe 3	8	4	14	1-3	2-6-7
	Ignore glow on 1					
6HD5	pe 3	8	1	14	4-10	*
	*3-5-7-9-11 - Ignore glow on 4-9-11					
6HD7	t 2	8	4	18	1-3	8-9
	pe 3	8	4	16		2-6-7
	Cont test 1-3					
6HE5	3	8	12	16	4-11	*
	*2-3-6-9-10					
	Cont test 2-9 & 3-10 & 4-11					
6HE7	pe 3	5	10	14	8	5-9-11
	d 4	5	10	14	4	2
6HF5	2	8	12	14	4-10	*
	*3-5-6-8-9-11					
	Cont test 4-10 & 5-9 & 3-6-8-11					
6HF8	t 2	8	5	16	1	2-3
	pe 3	8	5	14	6	7-8-9
6HG5	pe 3	8	4	18	2	1-5-6-7
	Ignore glow on 1-7					
6HG8	t 2	8	4	14	1-3	6-7
	pe 2	8	4	12	1-3	2-8-9
	Cont test 1-3					
6HJ5	pe 3	8	12	14	2	*
	*3-4-5-7-9-10-11					
	Ignore glow on 3-4-5					
6HJ7	t 2	8	4	16	1-3	8-9
	pe 2	8	4	16		2-6-7
	Cont test 1-3					
6HJ8	d 1	8	4	8	7	8
	pe 2	8	4	14	1	2-3-6-9
6HK5	2	8	4	14	2-7	1-5
	Cont test 2-7					
6HL5	2	8	4	18	3	1-2-7-9
	Ignore glow on 1 - Cont test 1-2					
6HL7	2	8	6	16	1	*
	*2-3-7-8-9 - Ignore glow on 3					
	Cont test 3-4-5-9					
6HL8	t 3	8	5	16	8	1-9
	pe 3	8	5	14	7	2-3-6
6HM5	3	8	4	14	2-7	1-5
	Cont test 2-7					
6HM6	pe 3	8	4	14	1-3	2-7-8-9
	Ignore glow on 1					
6HQ5	t 2	8	3	14	2-7	1-5
	Ignore glow on 2-7					
6HR5	3	8	3	20	2	1-5-6-7
	Ignore glow on 1 - Cont test 1-7					
6HR6	2	8	4	14	7	1-2-5-6
6HS5	2	8	1	16	4	2-7-11
	Ignore glow on 2-7					
	Cont test 2-11 & 3-10					

▲ - USE MAGNOVAL SOCKET

TUBE	A	B	C	D	CATH SHORTS	TEST
6HS6	2	8	4	14	7	1-2-5-6
6HS8	pe 2	8	4	14	1	2-7-8-9
	pe 2	8	4	14		2-3-6-7
6HT5	2	8	1	24	5	6-10
	Cont test 2-4-7-9-11					
6HT6	pe 3	8	4	14	1-3	2-7-8-9
	Ignore glow on 1					
6HV5	2	8	1	20	4	*
	*2-3-7-10-11					
	Must show short on 2-3-7-10-11					
6HW8	pe 2	8	4	18	7	2-3-6
	pe 2	8	4	18		3-6-8
6HZ5	2	8	1	18	4	*
	*2-3-7-10-11					
	Must show short on 2-11 & 3-10					
6HZ6	1	8	4	8	2	1-5-6-7
6HZ8	t 2	8	4	14	1	2-3
	pe 2	8	4	12	6	7-8-9
6J5	2	8	2	20	8	3-5
6J6	t 1	8	3	8	7	2-5
	t 1	8	3	8		1-6
6J7	2	8	2	16	8	3-4-5-10
6J9	t 2	8	5	16	3	1-2
	t 2	8	5	16	10	6-9
	t 2	8	5	16	10	7-8
6J10	pe 2	8	12	14	3	2-9-11
	pe 4	8	12	40	8	4-5-6-7
6J11	pe 2	8	1	12	6	2-3-4-5
	pe 2	8	1	12	8	*
	*7-9-10-11					
6JA8	t 2	8	4	18	1	2-3
	pe 2	8	4	18	6	7-8-9
6JB5	3	8	12	18	4-11	*
	*2-3-6-9-10					
	Cont test 2-3-4-9-10-11					
6JB6	pe 3	8	4	14	3	*
	*1-2-6-7-8-10					
	Ignore glow on 1-7, 2-6					
6JC5	2	8	12	18	4-11	*
	*2-3-6-9-10					
	Cont test 2-9 & 3-10 & 4-11					
6JC6	2	8	5	14	1-3	2-7-8-9
	Cont test 1-3					
6JC8	pe 2	8	5	16	1-7	2-3-6
	t 2	8	5	16		8-9
	Cont test 1-7					
6JD5	2	8	1	18	4	*
	*2-3-7-10-11					
	Must show short on 2-11 & 3-10					
6JD6	3	8	5	14	1-3	2-7-8-9
	Cont test 1-3					
6JE6	3	8	5	14	3	*
	*1-2-6-7-8-10					
	Cont test 1-7 & 2-6					
6JE8	t 2	8	4	14	1	2-3
	pe 2	8	4	12	6	7-8-9
6JF6	2	8	4	18	3	*
	*1-2-6-7-10 - Ignore glow on 1-2-6					
	Cont test 1-2-6-7					
6JG5	2	8	4	18	6	7-8-9
6JG6	4	8	4	14	3	1-2-7-9
	Ignore glow on 1-2 - Cont test 1-7					

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TUBE	A	B	C	D	CATH SHORTS	TEST
6JH5	2	8	1	16	4	*
	*2-3-7-8-10-11					
	Cont test 2-11 & 3-10 & 7-8					
	Grid short test - throw 2-11 together					
	Screen short test - throw 3-10 together					
	Plate short test - throw 7-8 together					
6JH6	pe 3	8	3	14	2	1-5-6-7
6JH8	3	8	5	16	7	*
	*1-2-3-6-8-9					
6JK5	2	8	1	18	4	*
	*2-3-7-8-10-11					
	Cont test 2-11 & 3-10 & 7-8					
	Grid short test - throw 2-11 together					
	Screen short test - throw 3-10 together					
	Plate short test - throw 7-8 together					
6JK6	2	8	4	14	2	1-5-6-7
6JK8	t 2	8	5	14	3	1-2
	t 1	8	5	8	8	6-7
6JL6	3	8	4	14	2	1-5-6-7
6JM6	pe 3	8	1	14	2	3-4-5-10
	Ignore glow on 4					
6JN6	pe 3	8	1	14	2	*
	*3-4-7-10-11					
	Ignore glow on 4-10					
6JN8	t 2	8	5	14	3	1-2
	pe 2	8	5	14	8	6-7-9
6JQ6	pe 2	8	4	18	9	1-2-3-7-8
	d 2	8	4	26		6
	Ignore glow on 7 - May glow on 2					
	Cont test 7-8					
6JR6	4	8	5	14	3	1-2-6-7-9
	Cont test 1-7 - Ignore glow on 1					
6JS6	pe 4	8	12	14	2	*
	*3-4-5-9-10-11					
	Cont test 3-11, 4-10, 5-9					
	Do not attach grid lead to top tube terminal					
	Ignore glow on 3-4-5-9-10					
6JT6	pe 3	8	4	16	3	*
	*1-2-6-7-9 - Ignore glow on 1-7					
6JT8	t 2	8	5	16	1	2-3
	pe 3	8	5	14	6	7-8-9
6JU6	2	8	4	16	3	*
	*1-2-6-7-10					
	Ignore glow on 1-2-6					
	Cont test 1-2-6-7					
6JU8	d 3	8	5	14		1-2-7-8
	d 3	8	5	14		1-7
6JV8	t 2	8	5	16	1	2-3
	pe 2	8	5	14	6	7-8-9
6JX8	t 2	8	4	18	3	8-9
	h 2	8	4	18		2-6-7
6JY8	t 2	8	4	19	1	2-3
	pe 2	8	4	19	6	7-8-9

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TUBE	A	B	C	D	CATH SHORTS	TEST
6JZ6	2	8	12	16	2	3-4-5-10
	Ignore glow on 4-5					
	Cont test 4-10					
6JZ8	t 2	8	12	18	11	2-10
	pe 3	8	12	14	9	4-6-7-8
	Cont test 6-7					
6K6	3	8	2	20	8	3-4-5
6K11	t 2	8	12	16	3	2-11
	t 2	8	12	16	6	5-7
	t 2	8	12	16	4	9-10
6KA8	t 2	8	5	16	3	1-2
	pe 2	8	5	14		6-7-8-9
6KD6	3	8	1	12	2	3-5-9-11
	Ignore glow on 3-5-9					
	Cont test 3-4-5-9-10-11					
6KD8	pe 2	8	5	16	7	2-3-6
	t 2	8	5	16	8	1-9
6KE8	pe 2	8	5	14	7	2-3-6
	t 2	8	5	16	8	1-9
6KF8	pe 3	8	4	14	1	2-3-6-7
	pe 3	8	4	14	1	2-7-8-9
▲6KG6	2	8	4	16	9	*
	*1-3-6-8-10					
	Ignore glow on 1-3-6					
	Cont test 1-2-3-6-7-8					
6KL8	pe 2	8	5	16	3	2-6-7
	d 2	8	5	16		8
●6KM6	2	8	4	16	3	*
	*1-2-6-7-10					
	Ignore glow on 1-2-6					
	Cont test 1-2-6-7					
6KM8	te 2	8	5	16	6	1-7-8
	te 2	8	5	16		7-8-9
	te 2	8	5	16		2-7-8
	d 1	8	5	18		3
6KN6	4	8	12	14	2	*
	*3-4-5-9-10-11					
	Ignore glow on 3-4-5-9-10					
	Cont test 3-4-5-9-10-11					
6KN8	t 2	8	4	16	8	6-7
	t 2	8	4	16	3	1-2
6KR8	t 2	8	4	14	1	2-3
	pe 3	8	4	14	6	7-8-9
6KS6	4	8	3	38	1	2-5-6-7
6KS8	t 2	8	4	18	1	2-3
	pe 2	8	4	16	6	7-8-9
6KT6	2	8	4	16	1-3	2-7-8
6KT8	t 2	8	4	14	1	2-3
	pe 3	8	4	14	6	7-8-9
6KU8	d 1	8	4	12	1	3
	d 1	8	4	12		2
	pe 2	8	4	16	6	7-8-9
●6KV6	2	8	4	16	3	1-2-7-9
	Ignore glow on 1-2 - Cont test 1-7					
6KV8	t 2	8	4	14	1	2-3
6KY6	pe 2	8	4	16	1	2-7-8
	Cont test 3-9					
●6KY8	t 2	8	4	18	1	8-9
	pe 3	8	4	14	3	2-6-7

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TUBE	A	B	C	D	CATH SHORTS	TEST
6KZ8	pe 3	8	4	14	3	2-6-7
	t 2	8	4	14	8	1-9
6L6	3	8	2	18	8	3-4-5
6LB6	3	8	1	12	2	3-5-9-11
	Ignore glow on 3-5-9					
	Cont test 3-4-5-9-10-11					
6LB8	t 2	8	4	20	1	2-3
	pe 3	8	4	14	6	7-8-9
6LC6	2	8	7	28	6	5-10
	Cont test 1-3-4					
6LC8	t 2	8	4	16	3-7	1-2
	pe 3	8	4	14	3-7	6-8-9
6LD6	3	8	4	14	1	2-6-7-8
	Cont test 6-8 & 3-9					
6LE8	pe 2	8	4	18	3	1-8-9
	pe 2	8	4	18		6-8-9
6LF6	2	8	1	24	2	*
	*3-4-10-11					
	Must show short 3-4-10-11					
6LF8	t 2	8	4	16	1	2-3
	pe 3	8	4	16	6	7-8-9
6LG6	2	8	1	20	4-10	*
	*3-5-9-11					
	Must show short on 3-4-5-9-10-11					
6LH6	2	8	7	26	6	5-10
	Cont test 1-3-4					
6LJ6	3	8	2	50	6	5-10
	Cont test 1-3-4					
6LJ8	t 2	8	4	14	3-8	1-2
	p 3	8	4	14	3-8	6-7-9
	Cont test 3-8					
6LM8	t 2	8	4	14	8	1-9
	pe 3	8	4	14	7	2-3-6
6LN8	t 2	8	4	16	8	1-9
	pe 2	8	4	16	7	2-3-6
●6LQ6	3	8	5	14	3	*
	*1-2-6-7-8-10					
	Cont test 1-7 & 2-6					
6LQ8	t 2	8	4	14	1	2-3
	pe 3	8	4	14	6	7-8-9
6LR6	4	8	12	14	2	*
	*3-4-5-9-10-11					
	Cont test 3-11 & 4-10 & 5-9					
●6LR8	t 2	8	4	16	1	8-9
	pe 2	8	4	16	3	2-6-7
6LT8	d 1	8	4	10	7	8
	d 1	8	4	10		6
	pe 2	8	4	16	1-7	2-3-9
6LU6	2	8	3	18	2	1-5-6-7
6LU8	t 2	8	12	18	11	2-10
	pe 4	8	12	14	9	4-6-7-8
	Ignore glow on 6 - Cont test 6-7					
6LV6	2	8	1	24	2	*
	*3-4-10-11					
	Must show short on 3-4-10-11					

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TUBE	A	B	C	D	CATH SHORTS	TEST
6LX6	2	8	12	16	2	*
*3-4-5-9-10-11						
Do not attach grid lead to top tube terminal						
Cont test 3-11 & 4-10 & 5-9						
Grid short test - throw 5-9 together						
Screen short test - throw 3-11 together						
Beam plate short test - throw 4-10 together						
6LY8	t 2	8	4	18	1	2-3
	pe 2	8	4	16	6	7-8-9
6M11	pe 1	8	12	8	10	2-3-11
	t 2	8	12	14	4	5-6
	t 2	8	12	14	9	7-8
6MB8	t 2	8	4	16	3	1-2
	pe 2	8	4	16	8	6-7-9
●6MD8	t 2	8	4	18	7	3-6
	t 2	8	4	18		2-8
	t 2	8	4	18		1-9
6ME8	3	8	4	16	7	*
*1-2-3-6-8-9						
6MF8	t 2	8	1	16	11	2-10
	pe 2	8	1	16	9	4-6-7-8
Ignore glow on 6 - Cont test 6-7						
6MG8	t 2	8	4	18	8	1-9
	pe 2	8	4	18	7	2-3-6
6M-HH3	t 1	8	3	8	7	2-5
	t 1	8	3	8		1-6
6MJ8	t 2	8	1	18	3	6-8
	t 2	8	1	18		4-10
	t 2	8	1	18		2-11
6MK8	pe 2	8	4	16	1	2-7-8
	pe 2	8	4	16		2-3-7
6ML4	2	8	3	14	5	1-2-6-7
Ignore glow on 1-2						
Cont test 1-2-6-7						
6MN8	t 2	8	1	18	3	2-11
	t 2	8	1	18		4-10
	t 2	8	1	18		6-8
6M-P17	3	8	3	20	2	1-5-6-7
6M-P18	3	8	3	18	2	1-5-6-7
Ignore glow on 1 - Cont test 1-7						
6M-P20	2	8	3	18	2	1-5-6
6MQ8	t 2	8	4	21	8	1-9
	pe 2	8	4	23	7	2-3-6
6MU8	t 2	8	5	19	8	1-9
	p 2	8	5	19	7	2-3-6
6MV8	t 2	8	4	18	1	2-3
	pe 2	8	4	18	6	7-8-9
6MY8	t 2	8	12	18	11	2-10
	pe 4	8	12	14	9	4-6-7-8
Ignore glow on 6 - Cont test 6-7						
6N3	3	8	4	16	3	9
6Q5	3	8	2	20	8	3-5
6Q11	t 2	8	1	16	3	2-11
	t 2	8	1	16	6	5-7
	t 2	8	1	16	4	9-10

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TUBE	A	B	C	D	CATH SHORTS	TEST
6R3	d 4	8	4	14	10	2-9
Ignore glow on 2						
6R4	2	8	4	16	3	1-8
6R8	t 3	8	4	24	7	8-9
	d 1	8	4	8	3	2
	d 1	8	4	8		1
	d 1	8	4	8		6
6R-A6	3	8	2	16	8	4-5-10
6R-A9	2	8	4	18	1	2-7-9
Cont test 2-7						
6R-B11	2	8	4	18	7	1-3-6-9
Cont test 3-6						
6R-HH2	t 2	8	4	14	8	6-7
	t 2	8	4	14	3	1-2
6R-HH8	t 2	8	4	16	8	6-7
	t 2	8	4	16	3	1-2
6R-K19	1	8	4	10	10	2-9
Ignore glow on 2 - Cont test 2-9						
6R-P15	2	8	4	18	3	1-2-7-9
Ignore glow on 1 - Cont test 1-2						
6R-P22	2	8	4	16	1	*
*2-3-6-8-9						
Ignore glow on 2-3-6-8						
Cont test - 2-3-8-9						
6S4	2	8	4	14	2	3-6-9
Ignore glow on 3 - Cont test 3-6						
6SA7	2	8	2	14	6	3-4-5-8
6SB7	2	8	2	14	6	3-4-5-8
6SL7	t 3	8	7	24	3	1-2
	t 3	8	7	24	6	4-5
6SN7	t 2	8	7	16	3	1-2
	t 2	8	7	16	6	4-5
6SQ7	t 1	8	7	8	3	2-6
	d 1	8	7	18		5
	d 1	8	7	18		4
6T8	t 1	8	4	8	7	8-9
	d 1	8	4	8		6
	d 1	8	4	8	3	2
	d 1	8	4	8		1
6T9	t 2	8	12	16	5	2-4
	pe 3	8	12	14	9	8-10-11
6T10	pe 2	8	12	16	2	3-5-6-7
	pe 3	8	12	14	9	8-10-11
6U3	3	8	4	16	3	9
6U5	t 2	8	1	22	5	2-3
	e 4	8	1	0		2-4
See instructions for eye test						
6U8	t 2	8	4	14	8	1-9
	pe 2	8	4	14	7	2-3-6
6U9	t 2	8	5	18	1	9-10
	pe 2	8	5	16	2	3-7-8
6U10	t 2	8	12	18	3	2-11
	t 2	8	12	18	4	9-10
	t 2	8	12	18	6	5-7
6V3	4	8	4	14	10	2-7-9
Ignore glow on 2-7						
Cont test 2-7-9						
6V6	3	8	2	20	8	3-4-5
6V9	t 2	8	5	16	9	8-10
	h 2	8	5	18	1	3-4-7

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TUBE	A	B	C	D	CATH SHORTS	TEST
6W4	4	7	7	14	3	5
	Allow sufficient heater warm-up time					
6W6	3	8	2	16	8	3-4-5
6X4	p 4	8	3	14	7	1
	p 4	8	3	14		6
6X5	p 4	8	2	14	8	3
	p 4	8	2	14		5
6X8	t 2	8	4	14	6	2-3
	pe 2	8	4	14		1-7-8-9
6X9	t 2	8	5	16	1	9-10
	pe 2	8	5	16	2	3-7-8
6Y9	pe 2	8	5	16	7	8-9-10
	pe 2	8	5	16	2	1-3-4
6Y10	pe 2	8	12	16	9	8-10-11
	pe 2	8	12	16	2	3-6-7
6Z4	p 4	8	1	14	5	2
	p 4	8	1	14		3
6Z10	pe 2	8	12	14	3	2-9-11
	pe 4	8	12	40	8	4-5-6-7
7AU7	t 3	5	9	20	8	6-7
	t 3	5	9	20	3	1-2
	Cont test 4-5					
7EY6	2	9	2	14	8	3-4-5
7GS7	t 2	9	4	18	38	1-2
	pe 2	9	4	16		6-7-9
	Cont test 3-8					
7HG8	t 2	9	4	14	1-3	6-7
	pe 2	9	4	12	1-3	2-8-9
	Cont test 1-3					
7KY6	2	9	4	16	1	2-7-8
	Cont test 3-9					
7KZ6	2	9	4	16	1	2-7-8
	Cont test 3-9					
7M-P18	3	8	3	18	2	1-5-6-7
	Ignore glow on 1 - Cont test 1-7					
8AC9	pe 2	9	12	16	8	9-10-11
	d 1	9	12	10	4	2
	Cont test 3					
8AC10	t 2	8	12	16	4	9-10
	t 2	8	12	16	6	5-7
	t 2	8	12	16	3	2-11
8AL9	t 2	9	1	20	6	5-7
	pe 2	9	1	20	9	2-10-11
8AR11	pe 2	9	12	14	6	2-3-4-5
	pe 2	9	12	14	11	7-8-9-10
8AU8	t 2	9	4	14	1	2-3
	pe 2	9	4	14	6	7-8-9
8AV11	t 2	9	1	16	3	2-11
	t 2	9	1	16	6	5-7
	t 2	9	1	16	4	9-10
8AW8	t 2	9	4	16	1	2-3
	pe 2	9	4	14	6	7-8-9
8B8	t 2	9	4	18	8	1-9
	pe 2	9	4	16	2	3-6-7
8B10	t 2	9	12	16	2	3-4
	t 2	9	12	16	7	5-6
	d 1	9	12	10	9	8
	d 1	9	12	10	9	10

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TUBE	A	B	C	D	CATH SHORTS	TEST
8BA8	t 2	9	4	14	1	2-3
	pe 2	9	4	14	6	7-8-9
8BA11	pe 2	9	1	16	8	2-3-4-5
	pe 2	9	1	16	8	3-4-6-7
	t 2	9	1	18	10	9-11
8BH8	t 2	9	4	14	1	2-3
	pe 2	9	4	14	6	7-8-9
8BM11	pe 2	9	12	16	10	7-9-11
	pe 2	9	12	16	5	2-3-6
8BN8	t 2	9	4	16	9	7-8
	d 1	9	4	8	3	6
	d 1	9	4	8	2	1
8BN11	pe 2	9	12	16	8	7-9-11
	pe 2	9	12	16	2	3-4-5
8BQ5	3	9	4	18	3	1-2-7-9
	Ignore glow on 1 - Cont test 1-2					
8BQ7	t 2	9	4	14	8	6-7
	t 2	9	4	14	3	1-2
8BQ11	pe 2	9	12	16	11	8-9-10
	pe 2	9	12	16	6	2-3-5
8BU11	t 2	9	12	16	2	3-4
	t 2	9	12	16	5	6-7
	pe 2	9	12	16	11	8-9-10
8CB11	pe 2	9	12	14	6	2-3-4-5
	pe 2	9	12	14	11	7-8-9-10
8CG7	t 3	9	4	24	8	6-7
	t 3	9	4	24	3	1-2
8CL8	t 2	9	4	14	3	1-2
	te 2	9	4	14	8	6-7-9
8CM7	t 2	9	4	14	3	6-7
	t 2	9	4	14	9	1-8
8CN7	t 2	6	9	18	6	7-8
	d 1	6	9	8	3	2
	d 1	6	9	8		1
	Cont test 4-5					
8CS7	t 3	9	4	18	9	1-3
	t 3	9	4	22	8	6-7
8CW5	2	9	4	12	3	*
	*1-2-6-7-8-9					
	Ignore glow on 1-6					
	May show short on 1-2-6-7-8-9					
8CX8	t 2	9	4	16	1	2-3
	pe 2	9	4	14	6	7-8-9
8CY5	2	9	3	14	2-7	1-5-6
	Cont test 2-7					
8CY7	t 2	9	4	18	8	6-7
	t 3	9	4	40	9	1-2-3
	Ignore glow on 2 - Cont test 2-3					
8DX8	t 2	9	4	14	3	1-2
	pe 2	9	4	14	7	6-8-9
8EB8	t 2	9	4	14	1	2-3
	pe 2	9	4	14	6	7-8-9
8EM5	3	9	4	16	7	1-3-6-9
	Ignore glow on 3 - Cont test 3-6					
8ET7	p 2	9	4	14	6	7-8-9
	d 1	9	4	18	1	3
	d 1	9	4	20		2
8FQ7	t 2	9	5	18	3	1-2
	t 2	9	5	18	8	6-7

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TUBE	A	B	C	D	CATH SHORTS	TEST
8GJ7	t 2	9 4	14	1-3	8-9	
	pe 3	9 4	14		2-6-7	
	Cont test 1-3					
8GK6	pe 2	9 4	12	1	2-3-7-9	
	Ignore glow on 3					
8GM6	t 2	9 3	12	2	1-5-6	
8GN8	t 2	9 4	14	1	2-3	
	pe 2	9 4	12	6	7-8-9	
8GU7	t 2	9 5	16	3	1-2	
	t 2	9 5	16	8	6-7	
8GX7	t 2	9 4	16	1	8-9	
	pe 3	9 4	14	3	2-6-7	
	Ignore glow on 1-3					
8HA6	3	9 4	14	1	*	
	*2-3-6-7-8-9					
	Cont test 6-8 & 3-9					
8HG8	t 2	9 4	14	1	6-7	
	pe 2	9 4	12	1	2-8-9	
	Ignore glow on 1					
8JE8	t 2	9 4	14	1	2-3	
	pe 2	9 4	12	6	7-8-9	
8JK8	t 2	9 5	14	3	1-2	
	t 1	9 5	8	8	6-7	
8JT8	t 2	9 5	16	1	2-3	
	pe 3	9 5	14	6	7-8-9	
8JU8	d 3	9 5	14		1-2-7-8	
	d 3	9 5	14		1-7	
8JV8	t 2	9 5	16	1	2-3	
	pe 2	9 5	14	6	7-8-9	
8K11	t 2	9 12	16	3	2-11	
	t 2	9 12	16	6	5-7	
	t 2	9 12	16	4	9-10	
8KA8	t 2	9 5	16	3	1-2	
	pe 2	9 5	14		6-7-8-9	
8KR8	t 2	9 4	14	1	2-3	
	pe 3	9 4	14	6	7-8-9	
8KS8	t 2	9 5	19	1	2-3	
	pe 2	9 5	20	6	7-8-9	
8KT8	t 2	9 4	14	1	2-3	
	pe 2	9 4	14	6	7-8-9	
8LC8	t 2	9 4	16	3-7	1-2	
	pe 3	9 4	14	3-7	6-8-9	
8LE8	pe 2	9 4	18	3	1-8-9	
	pe 2	9 4	18		6-8-9	
8LS6	2	8 4	18	1	2-7-8	
	Cont test 3-9					
8LT8	d 1	9 4	10	7	8	
	d 1	9 4	10		6	
	pe 2	9 4	16	1-7	2-3-9	
8LX8	t 2	9 4	16	8	1-9	
	pe 2	9 4	16	7	2-3-6	
●8MD8	t 2	9 4	18	7	3-6	
	t 2	9 4	18		2-8	
	t 2	9 4	18		1-9	
8MU8	t 2	9 5	19	8	1-9	
	pe 2	9 5	19	7	2-3-6	
8R-HP1	t 2	9 4	18	8	1-9	
	pe 2	9 4	16	2	3-6-7	
8U9	t 2	9 5	18	1	9-10	
	pe 2	9 5	16	2	3-7-8	

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TUBE	A	B	C	D	CATH SHORTS	TEST
8X9	t 2	9 5	16	1	9-10	
	pe 2	9 5	16	2	3-7-8	
9A8	t 2	9 4	14	8	1-9	
	pe 2	9 4	14	7	2-3-6	
9AH9	t 2	8 1	18	4	2-3	
	pe 2	8 1	16	7	5-6-8-11	
	Ignore glow on 5 - Cont test 5-6					
9AK10	t 2	9 1	20	4	9-10	
	t 2	9 1	20	6	5-7	
	t 2	9 1	20	3	2-11	
9AQ8	t 2	9 4	14	8	6-7	
	t 2	9 4	14	3	1-2	
9AU7	t 3	7 9	20	3	1-2	
	t 3	7 9	20	8	6-7	
	Cont test 4-5					
9BJ11	pe 2	10 12	16	10	7-9-11	
	pe 2	10 12	16	5	2-3-6	
9BR7	t 2	7 9	14	3	1-2	
	d 1	7 9	8	8	7	
	d 1	7 9	8		6	
	Cont test 4-5					
9CG8	t 2	10 4	14	3-8	1-2	
	pe 2	10 4	14		6-7-9	
	Cont test 3-8					
9CL8	t 2	10 4	14	3	1-2	
	te 2	10 4	14	8	6-7-9	
9DZ8	t 2	10 4	22	8	1-9	
	pe 2	10 4	20	2	3-6-7	
9EA8	pe 2	10 4	14	7	2-3-6	
	t 2	10 4	14	8	1-9	
▲9ED4	2	9 4	26	1	8-10	
	Cont test 1-2-3-6-7-9					
9GH8	t 3	8 4	14	8	1-9	
	pe 3	8 4	14	7	2-3-6	
9GV8	t 2	10 4	14	3	1-2	
	pe 3	10 4	14	8	6-7-9	
9JC8	pe 2	10 5	16	1-7	2-3-6	
	t 2	10 5	16		8-9	
	Cont test 1-7					
9KC6	2	10 4	16	1	2-7-9	
▲9KG6	2	10 4	16	9	*	
	*1-3-6-8-10					
	Ignore glow on 1-3-6					
	Cont test 1-2-3-6-7-8					
9KV8	t 2	10 4	14	1	2-3	
	pe 3	10 4	14	6	7-8-9	
9KX6	2	8 4	16	1	2-7-8	
	Cont test 3-9					
9KZ8	t 2	10 5	14	8	1-9	
	pe 3	10 5	14	3	2-6-7	
9LA6	2	9 4	16	1	2-7-8	
	Cont test 3-9					
9M-HH3	t 2	9 3	14	7	2-5	
	t 2	9 3	14		1-6	
9MN8	t 2	9 1	18	3	2-11	
	t 2	9 1	18		4-10	
	t 2	9 1	18		6-8	
9M-P12	2	9 3	18	2	1-5-6	

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TUBE	A	B	C	D	CATH SHORTS	TEST
9R-A6	2	10	5	18	1	2-7-9
	Must show short on 2-7					
	Grid short test - throw 2-7 together					
9R-AL1	t 3	10	4	20	8	6-7
	t 2	10	4	16	9	1-2-3
	Ignore glow on 2 - Cont test 2-3					
9R-HR2	t 3	10	4	14	8	1-9
	pe 3	10	4	14	7	2-3-6
9U8	t 2	10	4	14	8	1-9
	pe 2	10	4	14		2-3-6
9V9	t 2	10	5	16	9	8-10
	h 2	10	5	18	1	3-4-7
9X8	t 2	10	4	14	6	2-3
	pe 2	10	4	14		1-7-8-9
10AF11	t 2	10	12	16	7	3-4
	t 2	10	12	16	5	6-8
	pe 2	10	12	14	9	2-10-11
10AL11	pe 3	10	12	14	9	8-10-11
	pe 2	10	12	16	2	3-4-6-7
10BQ5	3	10	4	18	3	1-2-7-9
	Ignore glow on 1 - Cont test 1-2					
10CW5	2	10	4	12	3	*
	*1-2-6-7-8-9					
	Ignore glow on 1-6-7					
	May show short on 1-2-6-7-8-9					
10DE7	t 3	10	4	22	8	6-7
	t 3	10	4	16	9	1-2-3
	Ignore glow on 2 - Cont test 2-3					
10DR7	t 2	10	4	18	8	3-6
	t 2	10	4	14	9	1-2-3
	Ignore glow on 2 - Cont test 2-3					
10DX8	t 2	10	4	14	3	1-2
	pe 2	10	4	14	7	6-8-9
10EB8	t 2	10	4	14	1	2-3
	pe 2	10	4	14	6	7-8-9
10EG7	t 2	10	7	16	6	4-5
	t 2	10	7	12	3	1-2
10EM7	t 2	10	7	16	6	4-5
	t 2	10	7	14	3	1-2
10EW7	s 2	10	4	16	8	6-7
	s 2	10	4	14	9	1-2-3
	Ignore glow on 2 - Cont test 2-3					
10FD7	t 3	10	4	20	8	6-7
	t 2	10	4	12	9	1-2-3
	Ignore glow on 2 - Cont test 2-3					
10FR7	t 2	10	4	12	8	6-7
	t 2	10	4	12	9	1-2-3
	Ignore glow on 2					
●10GF7	t 1	10	5	8	1	8-9
	t 3	10	5	14	3	2-6
10GH8	t 3	10	4	14	8	1-9
	pe 3	10	4	14	7	2-3-6
10GK6	pe 2	10	4	12	1	2-3-7-9
	Ignore glow on 3					
10GN8	t 2	10	4	14	1	2-3
	pe 2	10	4	12	6	7-8-9
10GV8	t 2	10	4	14	3	1-2
	pe 3	10	4	14	8	6-7-9

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TUBE	A	B	C	D	CATH SHORTS	TEST
10HA6	pe 3	10	4	14	1	*
	*2-3-6-7-8-9					
	Cont test 6-8,3-9					
10HF8	t 2	10	5	16	1	2-3
	pe 3	10	5	14	6	7-8-9
10JA5	2	10	1	18	4-11	*
	*2-3-6-9-10					
	Cont test 2-9 & 3-10 & 4-11					
	Cathode short test - throw 4-11 together					
	Grid short test - throw 2-9 together					
	Screen short test - throw 3-10 together					
10JA8	t 2	10	4	18	1	2-3
	pe 2	10	4	18	6	7-8-9
10JT8	t 2	10	5	16	1	2-3
	pe 3	10	5	14	6	7-8-9
10JY8	t 3	10	5	14	1	2-3
	pe 3	10	5	14	6	7-8-9
10KR8	t 2	10	4	14	1	2-3
	pe 3	10	4	14	6	7-8-9
10KU8	d 1	10	4	12	1	3
	d 1	10	4	12		2
	pe 2	10	4	16	6	7-8-9
10LB8	t 2	10	4	20	1	2-3
	pe 3	10	4	14	6	7-8-9
10LD6	3	10	4	14	1	2-6-7-8
	Cont test 6-8 & 3-9					
10LE8	pe 2	10	4	18	3	1-8-9
	pe 2	10	4	18		6-8-9
10LM8	t 2	10	4	14	8	1-9
	pe 3	10	4	14	7	2-3-6
10LW8	t 2	10	4	16	1	2-3
	pe 2	10	4	16	6	7-8-9
10LY8	t 2	10	4	18	1	2-3
	pe 2	10	4	16	6	7-8-9
10LZ8	t 2	10	4	18	1	2-3
	pe 2	10	4	18	6	7-8-9
10T10	pe 2	10	12	16	2	3-5-6-7
	pe 3	10	12	14	9	8-10-11
10Z10	pe 2	10	12	14	3	2-9-11
	pe 4	10	12	40	8	4-5-6-7
11AF9	pe 2	10	5	16	7	8-9-10
	pe 2	10	5	16	2	1-3-4
	May show short on 2					
11AR11	pe 2	10	12	14	6	2-3-4-5
	pe 2	10	12	14	11	7-8-9-10
11BM8	t 2	10	4	14	8	1-9
	pe 2	10	4	14	2	3-6-7
11BN11	pe 2	10	12	16	8	7-9-11
	pe 2	10	12	16	2	3-4-5
11BQ11	pe 2	10	12	16	11	8-9-10
	pe 2	10	12	16	6	2-3-5
11BT11	t 2	10	12	18	6	5-7
	t 2	10	12	16	4	3-9
	pe 2	10	12	16	8	2-10-11

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TUBE		A	B	C	D	CATH SHORTS	TEST
11CA11	t	1	10	1	10	7	2-3
	t	1	10	1	10	5	4-6
	pe	1	10	1	10	9	8-11
	May show short on 7						
11CF11	d	2	10	1	18	7	2-11
	d	2	10	1	20	8	9-10
	pe	2	10	1	18	6	3-4-5
11CY7	t	2	11	4	18	8	6-7
	t	2	11	4	14	9	1-2-3
	Ignore glow on 2 - Cont test 2-3						
11DS5		2	10	3	16	2	1-5-6-7
	Ignore glow on 1 - Cont test 1-7						
11FY7	t	3	10	12	14	7	3-5
	t	2	10	12	18	9	10-11
11HM7		2	7	6	16	1	2-7-8
	Cont test 3-4-5-9						
11JE8	t	2	11	4	14	1	2-3
	pe	2	11	4	12	6	7-8-9
11KV8	t	2	11	4	14	1	2-3
	pe	3	11	4	14	6	7-8-9
11LQ8	t	2	11	4	14	1	2-3
	pe	3	11	4	14	6	7-8-9
11R3		4	10	4	14	10	2-9
	Ignore glow on 2						
11LT8	d	1	10	4	10	7	8
	d	1	10	4	10		6
	pe	2	10	4	16	1-7	2-3-9
11MS8	t	1	11	4	11	3	1-2
	pe	1	11	4	11	8	6-7-9
11Y9	pe	2	10	5	16	7	8-9-10
	pe	2	10	5	16	2	1-3-4
12AD6		3	11	3	20	2	1-5-6-7
12AE6	t	3	11	3	28	2	1-7
	d	1	11	3	18		6
	d	1	11	3	18		5
12AE7	t	2	8	9	14	8	6-7
	t	2	8	9	14	3	1-2
	Cont test 4-5						
12AE10	pe	2	11	12	18	2	3-6-7
	pe	3	11	12	18	9	8-10-11
12AF4		2	11	3	14	5	1-2-6-7
	Ignore glow on 1-2						
	Cont test 1-2-6-7						
12AF6		2	11	4	14	7	1-2-5-6
12AF11	t	2	11	12	16	7	3-4
	t	2	11	12	16	5	6-8
	pe	2	11	12	14	9	2-10-11
12AG6		2	11	4	14	2	1-5-6-7
12AJ7	t	2	11	4	20	3	8-9
	h	2	11	4	18		1-2-6
12AL8	t	3	11	4	30	9	1-8
	te	3	11	4	18	7	2-3-6
12AL11	pe	3	11	12	14	9	8-10-11
	pe	2	11	12	16	2	3-4-6-7
12AQ5		3	11	3	18	2	1-5-6-7
	Ignore glow on 1 - Cont test 1-7						
12AQ6	t	1	11	3	8	2	1-7
	d	1	11	3	18		5
	d	1	11	3	18		6

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TUBE		A	B	C	D	CATH SHORTS	TEST
12AS5		3	11	3	18	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
12AT6	t	3	11	3	20	2	1-7
	d	1	11	3	16		5
	d	1	11	3	16		6
12AT7	t	2	8	9	14	8	6-7
	t	2	8	9	14	3	1-2
	Cont test 4-5						
12AU6		3	11	3	16	7	1-2-5-6
12AU7	t	3	8	9	20	8	6-7
	t	3	8	9	20	3	1-2
	Cont test 4-5						
12AU8	t	2	11	4	14	1	2-3
	pe	2	11	4	14	6	7-8-9
12AV7	t	2	8	9	14	8	6-7
	t	2	8	9	14	3	1-2
	Cont test 4-5						
12AX3		3	11	1	16	7	4-10
	Cont test 4-10						
12AX4		4	11	7	14	3	5
12AX7	t	1	8	9	10	8	6-7
	t	1	8	9	10	3	1-2
	Cont test 4-5						
●12AY3		4	11	4	14	9	2-7
	Cont test 2-7						
12AY7	t	1	8	9	10	8	6-7
	t	1	8	9	10	3	1-2
	Cont test 4-5						
12AZ7	t	3	8	9	16	8	6-7
	t	3	8	9	16	3	1-2
	Cont test 4-5						
12B4		2	8	3	14	1	2-7-9
	Ignore glow on 2						
	Cont test 2-4-5-7						
12BA6		2	11	3	14	7	1-2-5-6
▲12B-B14		3	11	4	16	3-8	*
	*1-2-6-7-10						
	Ignore glow on 1-6						
	Cont test 1-2-3-6-7-8						
12BD6		2	11	3	17	7	1-2-5-6
12BE3		1	8	1	8	7	4-10
	Ignore glow on 4						
12BE6		2	11	3	14	2	1-5-6-7
12BF6	t	3	11	3	22	2	1-7
	d	1	11	3	18		6
	d	1	11	3	18		5
12BF11	pe	2	11	12	16	2	3-6-7
	pe	2	11	12	14	9	8-10-11
12BH7	t	3	8	9	16	8	6-7
	t	3	8	9	16	3	1-2
	Cont test 4-5						
12BK5		2	11	4	14	6	1-3-7-8
	Ignore glow on 3 - Cont test 3-7						
12BK6	t	3	11	3	18	2	1-7
	d	1	11	3	12		6
	d	1	11	3	12		5
12BL6		2	11	3	14	7	1-2-5-6
12BN6		4	11	3	38	1	2-5-6-7
12BQ6		3	11	2	18	8	4-5-10

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TUBE	A	B	C	D	CATH SHORTS	TEST
12BR3	3	11	4	26	10	2-9
	Ignore glow on 2 - Cont test					2-9
12BR7	t 2	8	9	14	3	1-2
	d 1	8	9	10	8	7
	d 1	8	9	10		6
	Cont test 4-5					
●12BS3	d 4	11	4	14	9	2-7
	Ignore glow on 2					
12BT3	4	11	12	12		4-10
	Cont test 4-10					
12BT6	t 2	11	3	18	2	1-7
	d 1	11	3	18		5
	d 1	11	3	18		6
12BU6	t 3	11	3	22	2	1-7
	d 1	11	3	12		6
	d 1	11	3	12		5
12BV7	2	8	6	14	1	*
	*2-3-7-8-9 - Ignore glow on 3					
	Cont test 3-4-5-9					
12BV11	pe 2	11	1	16	8	7-9-10
	pe 2	11	1	16	5	3-4-6
12BY7	2	8	6	14	1	2-7-8
	Cont test 3-4-5-9					
12BZ6	2	11	3	14	2	1-5-6-7
12BZ7	t 2	8	9	14	8	6-7
	t 2	8	9	14	3	1-2
	Cont test 4-5					
12C5	2	11	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test					2-5
12C8	pe 3	11	2	30	8	3-6-10
	d 1	11	2	16		4
	d 1	11	2	16		5
12CA5	3	11	3	16	1	2-5-6-7
	Ignore glow on 2 - Cont test					2-5
12CD6	3	11	2	16	3	4-8-10
●12CK3	4	11	4	14	9	2-7
	Ignore glow on 2 - Cont test					2-7
●12CL3	4	11	4	14	9	2-7
	Ignore glow on 2 - Cont test					2-7
12CM6	2	11	4	16	7	1-3-6-9
	Ignore glow on 3 - Cont test					3-6
12CN5	3	11	3	16	1	2-5-6-7
	Ignore glow on 2 - Cont test					2-5
12CR6	d 1	11	3	16	1	2
	pe 2	11	3	16		5-6-7
12CS6	2	11	3	14	2	1-5-6-7
12CT3	4	11	4	14	9	2-6
	Ignore glow on 2 - Cont test					2-6
12CT8	t 2	11	4	16	3	1-2
	pe 2	11	4	16	9	6-7-8
12CU5	3	11	3	16	1	2-5-6-7
	Ignore glow on 2 - Cont test					2-5
12CU6	3	11	2	16	8	4-5-10
12CX6	2	11	3	14	7	1-2-5-6
12D4	3	11	7	16	3	5
12DB5	3	11	4	18	2-7	1-3-6-9
	Ignore glow on 3					
	Cont test 2-3-6-7					
12DE8	pe 2	11	4	16	9	1-6-7-8
	d 1	11	4	10	2	3

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TUBE	A	B	C	D	CATH SHORTS	TEST
12DF5	d 1	8	9	10	8	6
	d 1	8	9	10	3	1
	Cont test 4-5					
12DF7	t 3	8	9	20	3	1-2
	t 3	8	9	20	8	6-7
	Cont test 4-5					
12DJ8	t 2	11	4	14	8	6-7
	t 2	11	4	14	3	1-2
12DK6	2	11	3	14	2	1-5-6-7
12DM4	d 4	11	8	12	3	5
12DM7	t 1	8	9	10	8	6-7
	t 1	8	9	10	3	1-2
12DN6	2	11	2	14	3	5-8-10
12DQ4	4	11	8	14	3	5
12DQ5	3	11	2	14	3-6	*
	*1-4-5-8-10 - Ignore glow on 1-4					
	Cont test 1-3-4-5-6-8					
12DQ6	3	11	2	16	8	4-5-10
12DQ7	2	8	6	14	1	2-7-8
	Cont test 3-9					
12DS7	te 2	11	4	14	8	3-6-7
	d 1	11	4	14		9
	d 1	11	4	14		1
12DT5	2	11	4	18	7	1-3-6-9
	Ignore glow on 3 - Cont test					3-6
12DT6	2	11	3	14	2	1-5-6-7
12DT7	t 2	8	9	18	3	1-2
	t 2	8	9	18	8	6-7
12DU7	te 2	11	4	12	2	1-3-6
	d 1	11	4	20		7
	d 1	11	4	20		9
12DV7	t 2	8	9	18	8	6-7
	d 1	8	9	26	1	2
	d 1	8	9	26		3
	Cont test 4-5					
12DV8	te 2	11	4	14	2	3-6-7
	d 1	11	4	11	8	9
	d 1	11	4	11		1
12DW5	2	11	4	21	7	1-3-6-9
	Ignore glow on 3 - Cont test					3-6
12DW7	t 2	8	9	14	8	6-7
	t 2	8	9	16	3	1-2
12DW8	t 2	11	4	14	8	6-7
	t 2	11	4	14	3	1-2
	d 1	11	4	10	8	9
12DY8	te 2	11	4	12	2	1-3-6
	t 2	11	4	14	7	8-9
12DZ6	2	11	3	14	7	1-5-6
12DZ8	t 2	11	4	22	8	1-9
	pe 2	11	4	20		3-6-7
12E5	3	11	2	26	8	3-5
12EA6	2	11	3	14	7	1-5-6
12EC8	pe 2	11	4	12	8	6-7-9
	t 2	11	4	14	3	1-2
12ED5	2	11	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test					2-5
12EG6	a 2	11	3	32	2	5-6-7
	o 2	11	3	14		1-6
12EK6	2	11	3	14	7	1-5-6

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TUBE		A	B	C	D	CATH SHORTS	TEST
12EL6	d	1	11	3	18	7	5
	d	1	11	3	18		6
	t	2	11	3	16		1-2
12EM6	t	2	11	4	14	2	1-3-6
	d	1	11	4	12		9
12EN6		2	11	7	14	8	3-4-5
12EZ6		2	11	4	14	7	1-5-6
12F8	pe	3	11	4	20	7	2-3-8-9
	d	1	11	4	16		6
	d	1	11	4	16		1
12FK6	t	2	11	3	16	2	1-7
	d	1	11	3	8		6
	d	1	11	3	8		5
12FM9	t	1	11	3	16	2	1-7
	d	1	11	3	16		6
	d	1	11	3	16		5
12FQ7	t	2	11	5	18	3	1-2
	t	2	11	5	18	8	6-7
12FR8	pe	2	11	4	14	5	3-6-7
	t	2	11	4	16	2	1-9
	d	1	11	4	20	2	8
12FS5		2	11	3	14	2-7	1-5-6
		Cont test 2-7					
12FV7	t	2	8	9	14	3	1-2
	t	2	8	9	14	8	6-7
12FX5	pe	3	11	3	14	1	2-5-6-7
		Ignore glow on 2-5					
12FX6		3	11	4	14	1	2-5-6-7
		Cont test 2-5					
12FX8	t	2	11	4	16	7	6-8
	h	2	11	4	14		1-2-3
12FY8	t	2	11	4	16	8	1-9
	p	2	11	4	14	2	3-6-7
12G11	pe	2	11	1	14	2	3-4-6-7
	pe	2	11	1	14	9	8-10-11
12G-B3		3	11	7	16	8	4-5-10
12GC5		3	11	5	16	7	*
		*1-3-6-8-9					
		Cont test 1-8 & 3-6					
12GE5		3	11	12	16	4-10	*
		*2-3-7-11 - Ignore glow on 3					
●12GJ5		3	11	5	16	3	*
		*1-2-6-7-10					
		Cont test 1-7 & 2-6					
12G-K17		4	11	7	14	3	5
12GN7		2	8	4-5	14	1	*
		*2-3-7-8-9					
		Ignore glow on 3 - Cont test 4-5					
●12GT5		4	11	5	14	3	*
		*1-2-6-7-9					
		Cont test 1-7 & 2-6					
12GV5		2	11	12	14	4-10	*
		*3-5-7-9-11					
		Cont test 4-10 & 3-7-11 & 5-9					
12GW6		3	11	7	16	8	4-5-10
▲12H-B25		3	11	4	16	9	*
		*1-2-6-7-10 - Ignore glow on 1-6					
		Cont test 1-2-3-6-7-8					
12HE7	d	4	8	10	14	4	2
	pe	3	8	10	14	8	5-9-11

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TUBE		A	B	C	D	CATH SHORTS	TEST
12HG7		2	8	6	16	1	2-7-8
		Cont test 3-9					
12HL5		2	11	4	18	3	1-2-7-9
		Ignore glow on 1 - Cont test 1-2					
12HL7		2	8	6	16	1	*
		*2-3-7-8-9 - Ignore glow on 3					
		Cont test 3-4-5-9					
12HU8	pe	2	11	4	18	7	1-2-3
	pe	2	11	4	18		6-8-9
●12JB6		4	11	5	14	3	*
		*1-2-6-7-8-10					
		Cont test 1-7 & 2-6					
12JF5		2	11	1	18	4-10	2-3-11
		Do not attach grid lead to top tube terminal					
		Cont test 3-11 & 4-10					
		Cathode short test - throw 4-10 together					
		Grid short test - throw 3-11 together					
12JM6		3	11	1	14	2	3-4-5-10
		Ignore glow on 4					
12JN6	pe	3	11	1	14	2	*
		*3-4-7-10-11 - Ignore glow on 4					
12JN8	t	2	11	5	14	3	1-2
	pe	2	11	5	14	8	6-7-9
12JQ6	pe	2	11	4	18	9	*
	d	2	11	4	26		6
		*1-2-3-7-8 - Ignore glow on 7					
		May glow on 2 - Cont test 7-8					
12JS6		4	11	12	14		*
		*3-4-5-9-10-11					
		Cont test 3-11 & 4-10 & 5-9					
		Do not attach grid lead to top tube terminal					
●12JT6	pe	3	11	4	16	3	*
		*1-2-6-7-9 - Ignore glow on 1-7					
12JZ8	t	2	11	12	18	11	2-10
	pe	3	11	12	14	9	4-6-7-8
12KA8	t	2	11	5	16	3	1-2
	pe	2	11	5	14		6-7-8-9
12KL8	pe	2	11	5	16	3	2-6-7
	d	2	11	5	16		8
12KY8	t	3	11	5	14	1	8-9
	pe	4	11	5	16	3	2-6-7
●12MD8	t	2	11	4	18	7	3-6
	t	2	11	4	18		2-8
	t	2	11	4	18		1-9
12R5		3	11	3	16	1	2-5-6-7
		Ignore glow on 2 - Cont test 2-5					
12R-K19		1	11	4	10	10	2-9
		Ignore glow on 2 - Cont test 2-9					
12R-LL5	t	2	11	5	18	3	1-2
	t	2	11	5	18	8	6-7
12SN7	t	2	11	7	16	6	4-5
	t	2	11	7	16	3	1-2
12SQ7	t	3	11	7	22	3	2-6
	d	1	11	7	16		4
	d	1	11	7	16		5

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TUBE	A	B	C	D	CATH SHORTS	TEST
12SX7	t	3	11	7	20	3 1-2
	t	3	11	7	20	6 4-5
12SY7		3	11	2	18	6 3-4-5-8
12T10	pe	2	11	12	16	2 3-5-6-7
	pe	3	11	12	14	9 8-10-11
12U7	t	3	8	9	20	8 6-7
	t	3	8	9	20	3 1-2
	Cont test 4-5					
12V6		3	11	2	20	8 3-4-5
12W6		3	11	2	16	8 3-4-5
12X4	p	4	11	3	14	7 1
	p	4	11	3	14	6
13CW4	t	1	11	12	10	8 2-4
13DE7	t	3	11	4	22	8 6-7
	t	3	11	4	16	9 1-2-3
	Ignore glow on 2 - Cont test 2-3					
13DR7	t	2	11	4	18	8 6-7
	t	2	11	4	14	9 1-2-3
	Ignore glow on 2 - Cont test 2-3					
13EM7	t	2	11	7	18	6 4-5
	t	2	11	7	12	3 1-2
13FD7	t	2	11	4	16	8 6-7
	t	2	11	4	12	9 1-2-3
	Ignore glow on 2 - Cont test 2-3					
13FM7	t	3	11	1	14	7 3-5-8
	t	2	11	1	18	9 10-11
	Ignore glow on 3					
13FR7	t	2	11	4	12	8 6-7
	t	2	11	4	12	9 1-2-3
	Ignore glow on 2					
▲13GB5		3	11	5	14	3-8 *
	*1-2-6-7-10 - Ignore glow on 1-6					
	Cont test 3-8 & 1-2 & 6-7					
●13GF7	t	1	11	5	8	1 8-9
	t	3	11	5	14	3 2-6
13J10	pe	2	11	12	14	3 2-9-11
	pe	4	11	12	40	8 4-5-6-7
13JT8	t	2	11	5	16	1 2-3
	pe	3	11	5	14	6 7-8-9
13JZ8	pe	2	11	1	20	9 4-6-7-8
	t	2	11	1	20	11 2-10
	Cont test 6-7					
13V10	pe	2	11	12	18	9 8-10-11
	pe	2	11	12	18	2 3-6-7
13Z10	pe	2	11	12	14	3 2-9-11
	pe	4	11	12	40	8 4-5-6-7
14BF11	pe	2	11	12	16	2 3-5-6-7
	pe	2	11	12	14	9 8-10-11
14BL11	t	2	11	12	18	6 5-7
	pe	2	11	12	16	4 3-9
	pe	2	11	12	16	8 2-10-11
14BR11	t	2	11	12	18	5 6-8
	t	2	11	12	18	7 9-10
	pe	2	11	12	16	4 2-3-11
14GT8	d	2	11	5	16	2
	d	2	11	5	16	6
	t	2	11	5	18	7 8-9
14GWS	t	2	11	4	18	2 1-9
	pe	2	11	4	18	7 3-6-8

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TUBE	A	B	C	D	CATH SHORTS	TEST
14JG8	d	2	11	5	16	2
	d	2	11	5	16	6
	t	2	11	5	20	7 8-9
15AF11	t	2	11	12	16	7 3-4
	t	2	11	12	16	5 6-8
	pe	2	11	12	14	9 2-10-11
15BD11	t	3	11	12	18	7 3-4
	t	2	11	12	14	5 6-8
	pe	2	11	12	14	3 2-10-11
15CW5	pe	3	11	4	14	3 *
	*1-2-6-7-8-9					
	Ignore glow on 1-2-6-7-8-9					
15EA7	t	3	11	8	14	3 1-2
	t	4	11	8	14	6 4-5
15EW6	t	2	11	3	12	2 1-5-6
15EW7	t	2	11	4	16	8 6-7
	t	2	11	4	14	9 1-2-3
	Ignore glow on 2 - Cont test 2-3					
15FM7	t	3	11	12	14	7 3-5-8
	t	2	11	12	18	9 10-11
	Cont test 3-8					
15FY7	t	3	11	12	14	7 3-5
	t	2	11	12	18	9 10-11
15HA6	pe	3	11	4	14	1 *
	*2-3-6-7-8-9					
	Cont test 6-8 & 3-9					
15HB6		4	11	5	12	1 *
	*2-3-6-7-8-9					
	Cont test 3-9 & 6-8					
●15KY8	t	2	11	5	20	1 8-9
	pe	4	11	5	16	3 2-6-7
15LE8	pe	2	11	4	18	3 1-8-9
	pe	2	11	4	18	6-8-9
15MF8	t	2	11	1	16	11 2-10
	pe	2	11	1	16	9 4-6-7-8
	Ignore glow on 6 - Cont test 6-7					
●15MX8	t	2	11	5	20	1 8-9
	pe	4	11	5	16	3 2-6-7
16AK9	t	2	8	6	20	7 2-3
	pe	2	8	6	20	7 5-8-9
	t	2	8	6	20	7 10-11
	Cont test 1-6-12					
16AQ3		2	11	4	12	10 3-8-9
	Ignore glow on 3-8					
	Cont test 1-2-3-6-7-8-9					
16BQ11	pe	2	11	12	20	6 2-3-4-5
	pe	2	11	12	20	11 7-8-9-10
16BX11	t	2	12	1	20	4 5-6
	t	2	12	1	22	9 7-8
	pe	2	12	1	20	10 2-3-11
16C-B28		2	12	12	14	4-10 *
	*3-5-7-9-11					
	Cont test 4-10 & 3-7-11 & 5-9					
16GK6		2	12	4	12	1 2-3-7-9
	Ignore glow on 3					
16GY5		2	12	12	14	4-10 *
	*3-5-7-9-11					
	Cont test 4-10 & 3-7-11 & 5-9					
16HB5		3	11	1	14	4-10 *
	*2-3-7-11 - Ignore glow on 3					
	Must show short on 4-10					

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TUBE	A	B	C	D	CATH SHORTS	TEST
16KA6	2	11	1	16	10	3-5
	Cont test 4-11					
16LD6	3	11	4	14	1	2-6-7-8
	Cont test 4-10 & 3-7-11 & 5-9					
16LU8	t 2	11	12	18	11	2-10
	pe 4	11	12	14	9	4-6-7-8
	Ignore glow on 6 - Cont test 6-7					
16MY8	t 2	11	12	18	11	2-10
	pe 4	11	12	14	9	4-6-7-8
	Ignore glow on 6 - Cont test 6-7					
16Y9	pe 2	11	5	16	7	8-9-10
	pe 2	11	5	16	2	1-3-4
17AB10	pe 2	11	1	16	3	2-9-11
	pe 4	11	1	40	8	4-5-6-7
17AV5	3	12	2	18	3	1-5-8
17AX3	3	12	12	16	7	4-10
	Cont test 4-10					
17AX4	3	12	7	20	3	5
●17AY3	4	12	4	14	9	2-7
	Ignore glow on 2					
▲17B-B14	2	11	4	14	3-8	*
	*1-2-6-7-10 - Ignore glow on 1-6					
	Cont test 1-2-3-6-7-8					
17BD11	t 3	12	1	18	7	3-4
	t 2	12	1	14	5	6-8
	pe 2	12	1	14		2-10-11
17BE3	1	12	1	8	7	4-10
	Ignore glow on 4					
17BF11	pe 2	12	12	16	2	3-5-6-7
	pe 2	12	12	14	9	8-10-11
●17BH3	4	12	5	14	9	2-7
	Ignore glow on 2					
17BJ6	2	12	3	14	2	1-5-6-7
17BQ6	3	12	2	18	8	4-5-10
17BR3	2	11	4	12	10	2-9
	Ignore glow on 2 - Cont test 2-9					
●17BS3	d 4	12	4	14	9	2-7
	Ignore glow on 2					
17BW3	3	12	12	16	7	4-10
	Ignore glow on 4					
17BZ3	4	12	12	12	7	4-10
	Ignore glow on 4					
17C9	te 3	12	5	14	10	1-2-3
	te 3	12	5	14	6	7-8-9
●17CK3	4	12	4	14	9	2-7
	Ignore glow on 2 - Cont test 2-7					
●17CL3	4	12	4	14	9	2-7
	Ignore glow on 2 - Cont test 2-7					
17CT3	4	12	4	14	9	2-6
	Cont test 2-6 - Ignore glow on 2					
17CU5	3	12	3	16	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5					
17D4	3	12	7	16	3	5
17DE4	2	12	7	14	3	5
17DG6	3	12	2	18	8	3-4-5
17DM4	4	12	8	14	3	5
17DQ4	4	12	8	14	3	5
17DQ6	3	12	2	16	8	4-5-10
●17DW4	4	11	4	14	9	2-7
	Cont test 2-7					

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TUBE	A	B	C	D	CATH SHORTS	TEST
17EW8	t 2	12	5	14	8	6-7
	t 2	12	5	14	3	1-2
17FY7	t 3	12	12	14	7	3-5
	t 2	12	12	18	9	10-11
17GE5	3	12	1	16	4-10	*
	*2-3-7-11 - Ignore glow on 3					
●17GJ5	3	12	5	16	3	*
	*1-2-6-7-10					
	Cont test 1-7 & 2-6					
●17GT5	4	12	5	14	3	*
	*1-2-6-7-9					
	Cont test 1-7 & 2-6					
17GV5	2	12	12	14	4-10	*
	*3-5-7-9-11					
	Cont test 4-10 & 3-7-11 & 5-9					
17GW6	3	12	7	16	8	4-5-10
17H3	3	12	4	18	1	3-8
	Ignore glow on 3 - Cont test 3-8					
▲17H-B25	3	11	4	16	9	*
	*1-2-6-7-10 - Ignore glow on 1-6					
	Cont test 1-2-3-6-7-8					
17HC8	t 2	12	4	14	8	1-9
	pe 2	12	4	14	2	3-6-7
●17JB6	4	12	5	14	3	*
	*1-2-6-7-8-10					
	Cont test 1-7 & 2-6					
●17JF6	2	12	4	18	3	*
	*1-2-6-7-10 - Ignore glow on 1-2-6					
	Cont test 1-2-6-7					
●17JG6	4	12	4	14	3	1-2-7-9
	Ignore glow on 1-2					
	Cont test 1-7					
17JK8	t 2	12	5	14	3	1-2
	t 1	12	5	8	8	6-7
17JM6	pe 3	12	1	14	2	*
	*3-4-5-10 - Ignore glow on 4					
17JN6	pe 3	12	1	14	2	*
	*3-4-7-10-11 - Ignore glow on 4					
17JQ6	pe 2	11	4	21	9	*
	d 2	11	4	28		6
	*1-2-3-7-8 - Ignore glow on 7					
	May glow on 2 - Cont test 7-8					
●17JR6	4	12	5	14	3	*
	*1-2-6-7-9 - Ignore glow on 1					
	Cont test 1-7					
17JS6	4	12	12	14	2	*
	*3-4-5-10-11					
	Cont test 3-11 & 4-10					
●17JT6	pe 3	12	4	16	3	*
	*1-2-6-7-9 - Ignore glow on 1-7					
17JZ8	t 2	12	12	18	11	2-10
	pe 3	12	12	14	9	4-6-7-8
	Cont test 6-7					
●17KV6	2	11	4	16	3	1-2-7-9
	Ignore glow on 1-2					
	Cont test 1-7					
17L6	3	12	2	16	8	3-4-5
17R5	3	12	3	16	1	5-6-7
17RK19	2	11	4	12	10	2-9
	Ignore glow on 2 - Cont test 2-9					

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TUBE		A	B	C	D	CATH SHORTS	TEST
17X10	pe	4	12	12	38	8	4-6-7
	pe	2	12	12	16	3	2-9-11
17Y9	pe	2	12	5	16	7	8-9-10
	pe	2	12	5	16	2	1-3-4
18A5		3	12	2	18	3	1-5-8
18AJ10	pe	2	12	1	20	2	3-5-6-7
	pe	2	12	1	20	9	8-10-11
18DZ8	t	2	12	4	22	8	1-9
	pe	2	12	4	20	2	3-6-7
18EA8	pe	2	12	4	14	7	2-3-6
	t	2	12	4	14	8	1-9
18FW6		2	12	3	14	7	1-2-5-6
18FX6		2	12	3	14	2	1-5-6-7
18FY6	t	2	12	3	16	2	1-7
	d	1	12	3	22		6
	d	1	12	3	22		5
▲18GB5	pe	3	12	4	14	3-8	1-2-6-7
	Ignore glow on 1-6						
	Cont test 3-8, 1-2 & 6-7						
18GD6		2	12	4	16	7	1-2-5-6
18GV5		2	12	12	14	4-10	*
	*3-5-7-9-11						
	Cont test 4-10 & 3-7-11 & 5-9						
18HB8	t	2	12	4	14	2	1-3
	pe	2	12	4	14	8	6-7-9
18R-AL1	t	3	12	4	20	8	6-7
	t	2	12	4	16	9	1-2-3
	Ignore glow on 2 - Cont test 2-3						
19AU4		4	12	7	12	3	5
19BG6		3	12	2	18	3	5-8-10
19C8	t	2	12	4	16	7	8-9
	d	1	12	4	8		6
	d	1	12	4	8	3	2
	d	1	12	4	8		1
19CG3		4	12	12	14	7	4-10
	Ignore glow on 4						
19CL8	t	2	12	4	14	3	1-2
	te	2	12	4	14	8	6-7-9
19D8	h	2	12	4	14	3	1-2-6
	t	2	12	4	14		8-9
19DE7	t	3	12	4	20	8	6-7
	t	3	12	4	14	9	1-2-3
	Ignore glow on 2 - Cont test 2-3						
19EA8	pe	2	12	4	14	7	2-3-6
	t	2	12	4	14	8	1-9
19EW7	t	2	12	4	16	8	6-7
	t	2	12	4	14	9	1-2-3
	Ignore glow on 2 - Cont test 2-3						
19EZ8	t	2	12	4	18		8-9
	t	2	12	4	18		6-7
	t	2	12	4	14	1	2-3
19FL8	pe	2	12	4	14	3	1-2-6-9
	d	1	12	4	10		7
	d	1	12	4	10		8
19FX5		3	12	3	14	1	2-5-6-7
	Ignore glow on 2-5						
19GQ7	d	2	12	4	14	1	2
	d	2	12	4	14	7	6
	d	2	12	4	14	9	8
19HR6		2	12	4	14	7	1-2-5-6

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TUBE		A	B	C	D	CATH SHORTS	TEST
19HS6		2	12	4	14	7	1-2-5-6
19HV8	t	2	12	4	16	3	1-2
	pe	2	12	4	12	8	6-7-9
19J6	t	2	12	3	14	7	2-5
	t	2	12	3	14		1-6
19JC6		2	12	5	14	1-3	2-7-8-9
	Cont test 1-3						
19JN8	t	2	12	5	14	3	1-2
	pe	2	12	5	14	8	6-7-9
▲19KF6		2	12	4	16	3	1-6-7-9
	Ignore glow on 1 - Cont test 1-7						
19KG8	t	3	12	5	14	3	1-2
	pe	3	12	5	14	8	6-7-9
19MR9		2	12	4	16	7	1-2-5-6
19Q9	pe	3	12	5	14	10	1-2-3-6
	t	3	12	5	14	7	8-9
19T8	t	1	12	4	8	7	8-9
	d	1	12	4	8		6
	d	1	12	4	8	3	2
	d	1	12	4	8		1
19V8	t	2	12	4	8	3	1-6
	d	1	12	4	14		9
	d	1	12	4	8	8	7
	d	1	12	4	8		2
19X3		3	12	4	16	3	9
20AQ3		2	12	4	12	10	3-8-9
	Ignore glow on 3-8						
	Cont test 1-2-3-6-7-8-9						
20EQ7	d	1	12	4	22	3	8
	pe	2	12	4	14		1-2-6-7
20EW7	t	2	12	4	16	8	6-7
	t	2	12	4	14	9	1-2-3
	Ignore glow on 2 - Cont test 2-3						
20EZ7	t	2	10	3	16	9	7-8
	t	2	10	3	16	4	5-6
20LF6		2	12	1	24	2	*
	*3-4-10-11						
	Must show short on 3-4-10-11						
21A6		3	12	4	12	3	*
	*2-7-8-10 - Ignore glow on 7						
	Cont test 1-6-7-8-9						
21AK6		3	12	3	22	7	1-2-5-6
21EX6	pe	4	12	2	14	3	5-8-10
21GY5		2	12	12	14	4-10	*
	*3-5-7-9-11						
	Cont test 4-10 & 3-7-11 & 5-9						
21HB5		3	12	12	14	4-10	*
	*2-3-7-11 - Ignore glow on 3						
	Cont test 4-10						
21HD5	pe	3	11	1	14	4-10	*
	*3-5-7-9-11 - Ignore glow on 4-9-11						
21HJ5	pe	3	11	12	14	2	*
	*3-4-5-7-9-10-11						
	Ignore glow on 3-4-5						
21JS6		4	12	12	14	2	*
	*3-4-5-9-10-11						
	Cont test 3-4-5-9-10-11						
21JV6		3	12	12	14	2	*
	*3-4-7-10-11 - Ignore glow on 4-7						

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TUBE	A	B	C	D	CATH SHORTS	TEST
21JZ6	2	12	12	16	2	3-4-5-10
	Ignore glow on 4-5					
	Cont test 4-10					
21KA6	2	12	1	16	10	3-5
	Cont test 4-11					
▲21KQ6	3	12	4	14	9	*
	*1-3-6-8-10 - Ignore glow on 1-3-6					
	Cont test 1-2-3-6-7-8					
21LG6	2	12	1	20	4-10	*
	*3-5-9-11					
	Must show short on 3-4-5-9-10-11					
●21LR8	t	2	12	4	16	1 8-9
	pe	2	12	4	16	3 2-6-7
21LU8	t	2	12	12	18	11 2-10
	pe	4	12	12	14	9 4-6-7-8
	Ignore glow on 6 - Cont test 6-7					
21MY8	t	2	12	12	18	11 2-10
	pe	4	12	12	14	9 4-6-7-8
	Ignore glow on 6 - Cont test 6-7					
●22BH3	4	12	5	14	9	2-7
	Ignore glow on 2					
22BW3	3	12	12	16	7	4-10
	Ignore glow on 4					
22DE4	4	13	7	14	3	5
●22JF6	2	12	4	18	3	*
	*1-2-6-7-10 - Ignore glow on 1-2-6					
	Cont test 1-2-6-7					
●22JG6	4	12	5	14	3	*
	*1-2-6-7-9 - Cont test 1-7					
●22JR6	4	12	5	14	3	*
	*1-2-6-7-9 - Cont test 1-7					
	Ignore glow on 1					
●22JU6	2	12	4	16	3	*
	*1-2-6-7-10 - Ignore glow on 1-2-6					
	Cont test 1-2-6-7					
●22KM6	2	12	4	16	3	*
	*1-2-6-7-10 - Ignore glow on 1-2-6					
	Cont test 1-2-6-7					
●22KV6	2	12	4	16	3	1-2-7-9
	Ignore glow on 1-2					
	Cont test 1-7					
23JS6	4	13	12	14	2	*
	*3-4-5-9-10-11					
	Do not attach grid lead to top tube terminal					
	Cont test 3-11, 4-10 & 5-9					
	Ignore glow on 3-4-5-9-10					
23Z9	t	2	7	6	20	7 2-3
	CAUTION-Remove tube before resetting controls					
	t	2	12	12	18	7 10-11
	pe	3	12	12	16	7 5-8-9
24AX4	4	13	7	14	3	5
24BF11	pe	2	13	12	16	2 3-5-6-7
	pe	3	13	12	14	9 8-9-11
24GA7	d	4	13	12	14	8 11
	pe	3	13	12	14	5 2-3-4-7
●24JE6	3	13	5	14	3	*
	*1-2-6-7-8-10					
	Cont test 1-7 & 2-6					

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TUBE	A	B	C	D	CATH SHORTS	TEST
24JZ8	t	2	13	12	18	11 2-10
	pe	3	13	12	14	9 4-6-7-8
	Cont test 6-7					
●24LQ6	3	13	5	14	3	*
	*1-2-6-7-8-10					
	Cont test 1-7 & 2-6					
25AV5	3	13	2	16	3	1-5-8
25AX4	4	13	7	14	3	5
▲25B-B14	2	13	4	14	3-8	*
	*1-2-6-7-10 - Ignore glow on 1-6					
	Cont test 1-2-3-6-7-8					
25BK5	2	13	4	14	6	1-3-7-8
	Ignore glow on 3 - Cont test 3-7					
25BQ6	3	13	2	16	8	4-5-10
25CD6	3	13	2	16	3	5-8-10
25CG3	4	13	12	14	7	4-10
	Ignore glow on 4					
●25CK3	4	13	4	14	9	2-7
	Ignore glow on 2 - Cont test 2-7					
●25CM3	4	13	4	14	9	2-7
	Ignore glow on 2 - Cont test 2-7					
25CT3	4	13	4	14	9	2-6
	Ignore glow on 2 - Cont test 2-6					
25CU6	3	13	2	16	8	4-5-10
25D8	t	3	13	2	28	1 5-6
	pe	2	13	2	20	3-4-10
	d	1	13	2	16	8
	2	13	3	14	7	5
	Cont test 4-6					
●25DL3	2	13	4	18	10	2-7
	Must show short on 2-7					
25DN6	2	13	2	14	3	5-8-10
25DQ6	3	13	2	16	4	4-5-10
25DT5	2	13	4	16	7	1-3-6-9
	Ignore glow on 3 - Cont test 3-6					
25E5	pe	4	13	2	14	3-8 *
	*1-4-5-10					
	Cont test 1-4, 3-8 & 2-7					
25EC6	3	13	2	16	3	5-8-10
25EH5	2	13	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5					
25EZ5	3	13	2	14	1-8	3-4-5-10
	Ignore glow on 3					
	Cont test 1-3-4-8					
25F5	2	13	3	16	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5					
25G-B6	3	13	7	16	8	4-5-10
▲25HX5	3	13	4	18	2-3	1-6-7-9
	Cont test 2-3					
25JQ6	pe	2	13	4	21	9 *
	d	2	13	4	28	6
	*1-2-3-7-8 - Ignore glow on 7					
	Cont test 7-8 - May glow on 2					
25JZ8	t	2	13	12	18	11 2-10
	pe	3	13	12	14	9 4-6-7-8
	Cont test 6-7					
25L6	3	13	2	16	8	3-4-5
25N6	3	13	2	26	8	3-4-5
25W4	3	13	7	16	3	5
25W6	3	13	2	16	8	3-4-5

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TUBE	A	B	C	D	CATH SHORTS	TEST	
25X6	p	4	13	2	14	4	3
	p	4	13	2	14	8	5
25Y4		1	13	2	8	8	5
26AQ8	t	2	13	5	14	8	6-7
	t	2	13	5	14	3	1-2
26DQ5		3	13	2	14	3-6	*
	*1-4-5-8-10 - Ignore glow on 1-4						
	Cont test 1-3-4-5-6-8						
26HU5		2	14	7	18	2-6	*
	*1-3-5-10 - Cont test 1-2-5-6						
26HV5		2	13	1	20	4	*
	*2-3-7-10-11						
	Must show short on 2-3-7-10-11						
26LX6		2	13	12	16	2	*
	*3-4-5-9-10-11						
	Do not attach grid lead to top tube terminal						
	Cont test 3-11 & 4-10 & 5-9						
▲27GB5		3	13	5	14	3-8	*
	*1-2-6-7-10 - Ignore glow on 1-6						
	Cont test 3-8, 1-2 & 6-7						
▲27KG6		2	13	4	16	9	*
	*1-3-6-8-10 - Ignore glow on 1-3-6						
	Cont test 1-2-3-6-7-8						
27LF6		2	13	1	24	2	*
	*3-4-10-11						
	Must show short on 3-4-10-11						
▲28GB5	pe	3	13	4	14	3-8	1-2-6-7
	Ignore glow on 1-6						
28HA6	pe	3	13	4	14	1	*
	*2-3-6-7-8-9						
	Cont test 6-8, 3-9						
28HD5	pe	3	14	1	14	4-10	*
	*3-5-7-9-11 - Ignore glow on 4-9-11						
29GK6		2	14	4	12	1	2-3-7-9
	Ignore glow on 3						
▲29KQ6		3	13	4	14	9	*
	*1-3-6-8-10 - Ignore glow on 1-3-6						
	Cont test 1-2-3-6-7-8						
▲29LE6		3	14	4	18	9	*
	*1-2-3-6-7-8-10						
	Cont test 1-8 & 2-7 & 3-6						
30A5		3	14	3	12	1	2-5-6-7
	Ignore glow on 2-Cont test 2-5						
30AE3		2	14	4	12	10	3-8-9
	Ignore glow on 3-8						
	Cont test 1-2-3-6-7-8-9						
30AG11	d	1	14	1	8	2	3
	d	1	14	1	8	11	10
	t	2	14	1	14	4	5-6
	t	2	14	1	14	9	7-8
30CW5		2	14	4	14	3	*
	*1-2-6-7-8-9 - Ignore glow on 1-6-7						
	May show short on 1-2-6-7-8-9						
30HD5	pe	3	14	1	14	4-10	*
	*3-5-7-9-11 - Ignore glow on 4-9-11						
30HJ5	pe	3	14	12	14	2	*
	*3-4-5-7-9-10-11						
	Ignore glow on 3-4-5						
30JZ6		2	14	12	16	2	3-4-5-10
	Ignore glow on 4-5-Cont test 4-10						

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TUBE	A	B	C	D	CATH SHORTS	TEST	
▲30KG6		2	14	4	16	9	*
	*1-3-6-8-10 - Ignore glow on 1-3-6						
	Cont test 1-2-3-6-7-8						
30M-P23		2	14	3	18	1	2-5-6-7
	Cont test 2-5						
30M-P27		3	14	3	18	1	2-5-6-7
	Cont test 2-5						
31AL10	t	2	10	6	22	7	2-3
	t	2	10	6	20	10	9-11
	pe	2	10	6	20	7	4-5-8
	Cont test 1-6-12						
31JS6		4	14	12	14	2	*
	*3-4-5-9-10-11						
	Cont test 3-11, 4-10, 5-9						
	Do not attach grid lead to top tube terminal						
●31LQ6		3	14	5	14	3	*
	*1-2-6-7-8-10						
	Cont test 1-2-6-7						
●31LR8	t	2	14	4	16	1	8-9
	pe	2	14	4	16	3	2-6-7
●31LZ6		2	12	5	18	3	*
	*1-2-6-7-9 - Cont test 1-7 & 2-6						
32A8	t	2	14	4	14	8	1-9
	pe	2	14	4	14	2	3-6-7
32GA7	d	4	14	12	14	8	11
	pe	3	14	12	14	5	2-3-4-7
32HQ7	d	2	11	7	20	4	2
	pe	2	11	7	20	8	5-9-11
	Cont test 1-7-12						
33GT7	d	4	12	7	12	4	2
	pe	3	12	7	14	8	*
	*5-9-10-11 - Cont test 9-11						
33GY7	d	4	12	7	12	4	2
	pe	3	12	7	14	8	*
	*5-9-10-11- Cont test 9-10						
33HE7	d	4	14	10	14	4	2
	pe	3	14	10	14	8	5-9-11
●33JR6		4	14	5	14	3	*
	*1-2-6-7-9						
	Ignore glow on 1 - Cont test 1-7						
33JV6	pe	3	14	12	14	2	*
	*3-4-7-10-11 - Ignore glow on 4						
34CD3		4	14	12	14	7	4-10
	Ignore glow on 4						
34CE3		4	14	12	14	7	4-10
	Ignore glow on 4						
●34CM3		4	14	4	14	9	2-7
	Ignore glow on 2 - Cont test 2-7						
34R3	d	4	14	4	14	10	2-9
	Ignore glow on 2						
35B5		3	14	3	18	2	1-5-6-7
	Ignore glow on 1 - Cont test 1-7						
35C5		3	14	3	16	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
35CD6		3	14	2	16	3	5-8-10
35DZ8	t	2	14	5	16	8	1-9
	pe	2	14	5	14	2	3-6-7
35EH5		2	14	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
35GL6		2	14	3	16	1	2-5-7

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TUBE	A	B	C	D	CATH SHORTS	TEST	
35HB8	t	2	14	4	14	2	1-3
	pe	2	14	4	14	8	6-7-9
35L6		2	14	2	14	8	3-4-5
35LR6		4	14	12	14	2	*
	*3-4-5-9-10-11						
	Cont test 3-11 & 4-10 & 5-9						
35W4		4	14	3	12	7	5
	Cont test 4-6						
35Y4		3	14	8	16	7	2
	Cont test 1-4						
35Z5		3	14	7	16	8	5
	Cont test 2-3						
36AM3		3	14	3	16	7	5
	Cont test 4-6						
36KD6		2	14	1	20	2	*
	*3-4-10-11						
	Cont test 3-4-5-9-10-11						
38HE7	d	4	12	10	14	4	2
	p	3	12	10	14	8	5-9-11
38HK7	d	4	12	10	14	4	2
	pe	3	12	10	14	8	5-9-11
40FR5		2	14	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
40KD6		3	14	1	12	2	3-5-9-11
	Ignore glow on 3-5-9						
▲40KG6		2	14	4	16	9	*
	*1-3-6-8-10 - Ignore glow on 1-3-6						
	Cont test 1-2-3-6-7-8						
42		3	8	1	22	5	2-3-4
▲42EC4		4	14	4	14	10	2-7-8
	Ignore glow on 2-7						
	Cont test 2-7-8						
42KN6		4	12	7	14	2	*
	*3-4-5-9-10-11						
	Ignore glow on 3-4-5-9-10						
	Cont test 3-4-5-9-10-11						
50BM8	t	2	15	4	14	8	1-9
	pe	2	15	4	14	2	3-6-7
50C5		3	15	3	20	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
50CA5		3	15	3	16	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
50DC4		1	15	3	8	7	5
50E5	pe	4	15	2	14	3-8	*
	*1-4-5-10						
	Cont test 1-4 & 3-8 & 2-7						
50EH5		3	15	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
50FA5		2	15	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
50FE5		2	15	2	12	8	3-4-5
50FK5		2	15	3	14	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5						
50FY8	t	2	15	4	16	8	1-9
	pe	2	15	4	14	2	3-6-7
50GY7	d	4	12	7	12	4	2
	pe	3	12	7	14	8	*
	*5-9-10-11						
50HC6		3	13	6	14	1	2-5-7
50HK6	pe	3	15	3	14	1	2-5-7

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TUBE	A	B	C	D	CATH SHORTS	TEST	
50HN5		3	15	4	16	3	1-2-7-9
	Ignore glow on 1 - Cont test 1-2						
50JY6		4	15	2	14	8	1-4-5-10
	Ignore glow on 1 - Cont test 1-4						
50L6		3	15	2	16	8	3-4-5
50X6	p	4	15	1	12	2	3
	p	4	15	1	12	7	6
53HK7	d	4	13	10	14	4	2
	pe	3	13	10	14	8	5-9-11
58HE7	pe	3	13	10	14	8	5-9-11
	d	4	13	10	14	4	2
60HL5		2	15	4	18	3	1-2-7-9
	Ignore glow on 1 - Cont test 1-2						
84	p	3	8	1	20	4	2
	p	3	8	1	20		3
713A		2	8	2	14	3-5	4-6-8
2050		3	8	2	16	8	3-5-6
2051		3	8	2	16	8	3-5-6
5755	t	1	8	9	10	7	6-8
	t	1	8	9	10	2	1-3
5844	t	2	8	3	16	7	2-5
	t	2	8	3	16		1-6
5845	p	4	4	7	100		1
	p	4	4	7	100		5
	Cont test 3-4-7						
	Good tube reads above 30						
6012		2	8	2	21	1	3-5-8
6084		3	8	4	20	3	*
	*1-2-7-8-9 - Cont test 2-7						
6216		2	8	4	12	3-8	1-2-6-7
	Cont test 1-3-6-8						
	Ignore glow on 1						
6227		3	8	4	18	3	2-7-8
	Cont test 1-8						
6485		2	8	3	14	7	1-2-5-6
6664		2	8	3	14	7	1-6
6676		2	8	3	14	2	1-5-6-7
6686		1	8	5	3	3	2-7-8-9
6689		2	8	4	18	3	1-2-6
6883		2	11	2	14	*	3-5-10
	*1-4-6 - Cont test 1-4-6						
6939	pe	1	8	9	10	2	3-6-8
	pe	1	8	9	10		1-6-7
7119	t	2	11	8	18	3	1-2
	t	2	11	8	18	6	7-9
7233		2	8	4	18	8	*
	*1-2-3-6-7-9						
	Cont test 1-2-3-6-7-9						
7308	t	2	8	4	18	3	1-2
	t	2	8	4	18	8	6-7
7320		3	8	4	18	3	1-2-7-9
	Ignore glow on 1 - Cont test 1-2						
7360		2	8	4	14	1	2-3-6-7
7408		3	8	2	20	8	3-4-5
7543		2	8	4	16	7	1-2-5-6
7551		2	11	4	14	1-9	*
	*2-3-6-7-8 - Ignore glow on 3						
	Cont test 1-3-8-9						

▲ - USE MAGNOVAL SOCKET

TUBE	A	B	C	D	CATH SHORTS	TEST
7558	2	8	4	14	1-9	*
	*2-3-6-7-8 - Ignore glow on 3					
	Cont test 1-3-8-9					
7581	2	7	2	14	8	3-4-5
7586	2	8	10	12	8	2-4
7591	2	8	2	14	5	3-4-6-8
	Ignore glow on 4 - Cont test 4-8					
7643	t	2	8	4	18	8 1-9
	pe	2	8	4	16	7 2-3-6
7687	t	2	8	4	14	8 1-9
	pe	2	8	4	14	7 2-3-6
7695	2	15	4	14	7	1-6-9
7701	2	11	4	16	*	2-6-7-9
	*1-3-8 - Ignore glow on 7					
	Cont test 1-3-7-8-9					
7716	t	2	11	4	14	1 2-3
	pe	2	11	4	14	6 7-8-9
7717	2	8	3	14	2-7	1-5-6
7724	d	2	11	5	16	2 6
	t	2	11	5	16	7 8-9
7728	t	3	8	9	16	8 6-7
	t	3	8	9	16	3 1-2
	Cont test 4-5					
7729	t	2	8	9	18	8 6-7
	t	2	8	9	18	3 1-2
	Cont test 4-5					
7730	t	3	8	9	20	8 6-7
	t	3	8	9	20	3 1-2
7731	t	2	8	4	14	8 1-9
	pe	2	8	4	14	7 2-3-6
7733	2	8	6	14	1	2-7-8
	Cont test 3-4-5-9					
7751	2	8	2	18	8	1-3-4-5
	Must show short on 1-4					
7754	2	8	4	14	7	1-6-9
7788	2	8	4	16	13	2-6-7-9
	Ignore glow on 6-7					
	Cont test 1-3-6-9					
●7868	3	8	4	16	3	*
	*1-2-6-7-9 - Ignore glow on 1-2-6-7					
7898	t	2	10	9	18	3 1-2
	t	2	10	9	16	8 6-7
	Fil Cont - throw 4-5 together					
7984	3	11	1	16	*	**
	*2-6-8-9					
	**3-4-5-7-10-11					
	Ignore glow on 3-4-5-7-11					
	Must show short on 2-6-8-9					
8032	2	11	2	21	*	3-5-10
	*1-4-6 - Cont test 1-4-6					
8077	2	11	4	14	1	2-7-8
	Cont test 3-9					
8102	t	3	11	5	14	2 1-3
	pe	3	11	5	14	8 6-7-9
8106	3	11	5	14	*	1-3-7-8
	*2-6-9 - Cont test 2-6-9 & 3-8					
8156	3	11	12	16	*	**
	*2-6-8-9					
	**3-4-5-7-10-11					
	Cont test 2-6-8-9 & 7-11 & 3-4-5					

● - USE NOVAR SOCKET

TUBE	A	B	C	D	CATH SHORTS	TEST
▲8233	3	8	4	14	7-9	1-3-8
	Cont test 2-6-7-9					
▲8278	2	8	4	16	2-6	*
	*1-3-7-8-9 - Ignore glow on 1-3-7					
	Cont test 1-2-3-6-7-8					
8417	2	8	2	18	8	3-4-5
8425	3	8	3	18	7	1-2-5-6
8426	3	11	3	19	7	1-2-5-6
8552	2	11	2	21	*	3-5-10
	*1-4-6 - Cont test 1-4-6					
<u>FOREIGN</u>						
E-80F	3	8	4	20	3	*
	*1-2-7-8-9 - Cont test 2-7					
E-80L	3	8	4	18	3	2-7-8
	Cont test 1-8					
E-81L	1	8	5	3	3	2-7-8-9
E-83F	2	8	4	18	3	1-2-6
E-84L	3	8	4	18	3	1-2-7-9
	Ignore glow on 1 - Cont test 1-2					
E-188CC	t	2	8	4	18	3 1-2
	t	2	8	4	18	8 6-7
E-235L	2	8	2	18	8	1-3-4-5
E-810F	2	8	4	16	13	2-6-7-9
	Ignore glow on 6-7					
	Cont test 1-3-6-9					
EC-81	2	8	4	16	3	1-8
EC-91	2	8	3	16	25	1-6-7
	Ignore glow on 1					
	Cont test 1-2-5-6					
ECF-202	t	2	8	5	18	1 9-10
	pe	2	8	5	18	2 3-7-8
EF-37A	2	8	2	20	8	3-4-5-10
EL-81	2	8	5	14	1-3	2-7-8-9
	Cont test 1-3					
▲EL-503	2	8	4	16	2-6	*
	*1-3-7-8-9 - Ignore glow on 1-3-7					
	Cont test 1-2-3-6-7-8					
▲EL-504	3	8	5	14	3-8	*
	*1-2-6-7-10 - Ignore glow on 1-6					
	Cont test 1-2-3-6-7-8					
▲EL-505	2	8	4	16	9	*
	*1-3-6-8-10 - Ignore glow on 1-3-6					
	Cont test 1-2-3-6-7-8					
EL-802	3	8	4	14	1	2-6-7-8
	Cont test 6-8 & 3-9					
EQ-80	2	8	4	16	38	1-6-7
	Cont test 3-8					
EY-80	3	8	4	16	3	9
EY-81	4	8	4	12	10	2-9
	Ignore glow on 2					
	Cont test - all pins					
EY-82	3	8	4	16	3	9
GZ-32	p	4	7	2	12	4
	p	4	7	2	12	6
HL-94	3	14	3	12	1	2-5-6-7
	Ignore glow on 2 - Cont test 2-5					
LCL-80	t	2	6	4	18	3 1-2
	pe	2	6	4	16	6-8-9

▲ - USE MAGNOVAL SOCKET