

TRC 10-1-68 (Replaces 1-2-67 Issue)

TUBE TEST DATA

Models
640, 660.

FOR USE WITH
ROLL CHART TRC H2B

COLETRONICS SERVICE INC.

46 ROCKAWAY AVE.

• HEWLETT, L.I., N.Y. 11557

1.

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
1AU2		4	2	32	4	-	19	19
1AY2		4	2	20	4	-	-	0
	Insert leads into pins 4 & 9 of 9 pin socket							
1BC2		2-5-8	2	25	4	-	169	0
1BG2		1	2	17	4	-	-	0
	Insert bottom leads into pins 1 & 2 of 9 pin socket Cap goes to top lead							
1K3		2	2	35	4	-	7	0
	OK above 20 on meter scale. May show short on 1-3-5-8							
2AH2								
(Key at 2)	Caution: - Lever 5 must be thrown to open position.							
		1	4	26	4	-	-	0
	Grid cap goes to top of tube. May show short on 3-4-7-8-9							
2AS2								
(Key at 5)		4	4	27	4	-	17	0
	Cap goes to top of tube							
2AV2		4	3	29	4	-	1236789	9
	Throw levers 1-2-3-6-7-8 to open position							
2AZ2		5	3	20	4	-	1469	0
	Levers 2-8 must be thrown to open position							
2BA2		4	3	15	4	-	19	●19
	●Ignore glow on 1							
2BJ2								
	Caution: - Levers 2-8 must be thrown to position "E" before inserting tube and must remain in position "E" throughout all tests including short tests.							
		5	3	44	3	1469	1469	0
	May show short on 3-7							
2C50	Tri-1	7	13	24	2	3	-	12
"	Tri-2	7	13	24	2	6	-	45
2CN3		2	2	17	4	-	35	0
2DS4		4	3	18	3	3	-	12
2DV4		3	3	19	2	7	1246	●1246
	●Ignore glow on 1-4							

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
2DZ4		3	4	24	2	5	-	1267
	Must show short on 1-2-6-7							
2EG4		4	2	42	3	3	-	1
2GU5		3	4	21	2	27	27	156
2GW5		3	4	20	2	5	26	●126
	●Ignore glow on 2							
2HA5		3	3	21	2	27	27	15
	Lever 2 must be thrown to open position							
2HK5		3	3	21	2	27	27	15
2HM5		3	4	22	2	27	27	15
	Lever 2 must be thrown to open position							
2HQ5		3	3	20	2	27	27	15
2HR8		4	4	23	2	3	27	169
3AF3		4	8	18	3	0	29	●29
	●Ignore glow on 2							
3AJ8	Hep	5	5	24	2	3	-	1267
"	Tri	5	5	27	2	-	-	89
3AT2								
(Key at 6)		5	4	21	4	-	28	0
	Lever 1 must be thrown to open position							
	Cap goes to top of tube							
3AW2								
(Key at 5)		4	5	15	4	-	17	0
	Cap goes to top of tube							
3AW3		2	5	48	3	-	378	0
3BH2*		248	4	20	4	-	14589	0
	*Must use Magnoval adapter. Cap goes to top of tube							
3BL2								
(Key at 5)		4	5	16	4	-	167	0
	Cap goes to top of tube							
3BM2								
(Key at 5)		4	5	12	4	-	167	0
	Cap goes to top of tube							

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
3BN2 (Key at 6)		5	4	21	4	-	28	0
Lever 1 must be thrown to open position Cap goes to top of tube								
3CA3		2	5	26	4	-	-	0
3CN3		2	5	17	4	-	35	0
3CU3		2	5	14	4	-	8	0
3DZ4		3	5	24	2	5	-	1267
Must show short on 1-2-6-7								
3DZ11		5	7	21	3	7	71	15
3GK6		4	5	23	2	1	39	●2379
●Ignore glow on 3								
3GU5		3	5	21	2	27	27	156
3GW5		3	5	20	2	5	26	●126
●Ignore glow on 2								
3HA5		3	4	21	2	27	27	15
Lever 2 must be thrown to open position								
3HE7 (Key at 0)	Di	1	5	16	3	4	-	2
*Caution: - Lever 5 must be thrown to open position before inserting tube								
(Key at 8)	Pen*	7	5	16	2	3	-	46
3HF5 (Key at 4)		3	5	23	2	18	1278	2790
Must show short on 1278. Grid cap goes to top of tube								
3HK5		3	4	21	2	27	27	15
3HM5		3	4	22	2	27	27	15
Lever 2 must be thrown to open position								
3HM6		4	5	20	2	13	13	278
3HQ5		3	5	20	2	27	27	15
3HS8	Pen-1	4	5	23	2	1	-	2789
"	Pen-2	4	5	23	2	-	-	2367
3HT6		4	5	22	2	13	-	278
Lever 3 must be thrown to open position								

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
3JC6		4	5	22	2	13	13	278
3JD6		4	5	22	2	13	13	278
3KT6		4	5	21	2	13	13	278
4AB8	Tri	4	6	25	2	3	-	12
"	Pen	4	6	22	2	-	-	689
4AF4		3	6	23	2	5	1267	●1726
	●Ignore glow on 1-2							
4DL4		4	6	20	2	2	13679	●136798
	●Ignore glow on 1-3-6-7							
4ER5		3	5	20	2	17	17	25
4GJ7	Tri	4	6	21	2	13	13	89
"	Pen	4	6	20	2	-	-	267
4GK5		3	6	22	2	17	17	25
4GW5		3	6	20	2	5	26	●126
	●Ignore glow on 2							
4GX6		3	6	23	2	2	-	1567
4GX7	Tri	4	6	21	2	13	13	89
"	Pen	4	6	20	2	-	-	267
4GZ5		3	6	22	2	1	25	●2567
	●Ignore glow on 2							
4HA5		3	6	21	2	27	27	15
	Lever 2 must be throw to open position							
4HA7								
(Key at 3)	Tri-1	2	7	26	2	6	-	15
(Key at 5)	Tri-2	4	7	26	2	9	-	12
4HC7								
(Key at 0)	Tri-1	1	6	26	2	4	-	79
(Key at 6)	Tri-2	7	6	26	2	9	-	48
4HG8	Tri	4	7	23	2	3	13	67
"	Pen	4	7	22	2	1	-	289
4HK5		3	6	21	2	27	27	15

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
4HM5		3	6	22	2	27	27	15
	Lever 2 must be thrown to open position							
4HM6		4	6	20	2	13	13	278
4HQ5		3	6	20	2	27	27	15
4HR8		4	7	23	2	3	27	169
4HS8	Pen-1	4	6	23	2	1	-	2789
"	Pen-2	4	6	23	2	-	-	2367
4HT6		4	6	22	2	13	-	278
	Lever 3 must be thrown to open position							
4JC6		4	7	22	2	13	13	278
4JD6		4	7	22	2	13	13	278
4JH6		3	6	22	2	2	-	156
4JK6		3	5	21	2	2	-	156
4JL6		3	5	22	2	2	-	156
4KE8	Tri	4	6	24	2	8	-	19
"	Pen	4	6	23	2	7	-	236
4KN8	Tri-1	4	6	20	2	8	-	67
"	Tri-2	4	6	20	2	3	-	12
4KT6		4	6	21	2	13	13	278
•4LJ8	Tri	4	6	21	2	38	38	12
"	Pen	4	6	20	2	-	-	679
4M-P12		3	7	22	2	2	-	156
4M-P26		3	6	22	2	2	-	156
4R-HH2	Tri	4	6	23	2	8	-	67
"	Tri	4	6	23	2	3	-	12
4R-HH8	Tri-1	4	6	20	2	8	-	67
"	Tri-2	4	6	20	2	3	-	12
5AF4		3	7	23	2	5	1267	•1726

•Ignore glow on 1-2

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
5AF11								
(Key at 7)	Pen	6	7	19	3	3	-	459
(Key at 2)	Di-1	1	7	19	3	9	-	56
(Key at 0)	Di-2	1	7	19	3	5	-	68
5BC3	Di-1	1	8	12	1	-	-	89
	Caution: - Lever 2 must be thrown to open position							
"	Di-2	1	8	10	1	-	-	56
	Caution: - Lever 2 must be thrown to open position							
	Must show short on 5-6-8-9. Fil Cont - 1-2-3							
5CR8	Tri	4	7	22	2	8	-	19
"	Pen	4	7	21	2	3	-	267
5DG4	Pl-1	1	8	25	2	-	-	7
"	Pl-2	1	8	25	2	-	-	5
5DJ4	Pl-1	1-2	8	9	2	-	3456	34
"	Pl-2	1-2	8	9	2	-	-	56
5EW6		3	8	20	2	2	-	156
5GJ7	Tri	4	9	21	2	13	13	89
"	Pen	4	9	20	2	-	-	267
5GS7	Tri	4	8	21	2	38	38	12
"	Pen	4	8	20	2	-	-	679
5GX6		3	7	23	2	2	-	1567
5GX7	Tri	4	8	21	2	13	13	89
"	Pen	4	8	20	2	-	-	267
5HA7								
(Key at 3)		2	6	26	2	6	-	15
(Key at 5)		4	6	26	2	9	-	12
5HB7	Tri	4	7	23	2	13	13	89
"	Pen	4	7	24	2	13	13	267
	Lever 1 must be thrown to open position							
5HC7								
(Key at 0)	Tri-1	1	8	26	2	4	-	79
(Key at 6)	Tri-2	7	8	26	2	9	-	48
5HG8	Tri	4	8	23	2	3	13	67
"	Pen	4	8	22	2	1	13	289

7.

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
5HZ6		4	8	17	3	2	-	156
5JK6		3	8	21	2	2	-	156
5JL6		3	8	22	2	2	-	156
5KD8	Tri	4	8	22	2	8	-	19
"	Pen	4	8	22	2	7	-	236
5KE8	Tri	4	8	24	2	8	-	19
"	Pen	4	8	23	2	7	-	236
5KZ8	Tri	4	7	22	2	8	-	19
"	Pen	4	7	22	2	3	-	267
5LJ8	Tri	4	8	21	2	38	38	12
"	Pen	4	8	20	2	-	-	679
5MB8	Tri	4	8	20	2	3	-	12
"	Pen	4	8	19	2	8	-	679
5M-HH3	Tri	3	7	23	2	7	-	25
"	Tri	3	7	23	2	7	-	16
5U9	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
5V9	Tri	5	8	20	2	9	-	80
"	Hep	5	8	21	2	1	-	347
5X9	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
6AC9								
(Key at 0)	Di	1	9	16	3	3	3	2
(Key at 7)	Pen	6	9	20	2	6	-	345
6AC10								
(Key at 5)	Tri-1	4	9	21	2	9	-	12
(Key at 0)	Tri-2	1	9	21	2	6	-	57
(Key at 3)	Tri-3	4	9	21	2	6	-	15
AD10								
(Key at 2)	Pen-1	1	9	20	2	4	-	589
(Key at 6)	Pen-2	5	9	21	2	2	-	134
6AF9	Pen-1	5	9	20	2	7	-	890
"	Pen-2	5	9	20	2	2	-	134

May show short on 2

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6AF11								
(Key at 0)	Tri-1	1	9	24	2	5	-	68
	Tri-2	1	9	25	2	7	-	34
(Key at 5)	Pen	6	9	25	2	1	-	237
6AG9								
(Key at 0)		1	9	21	2	6	-	57
(Key at 6)		5	9	21	2	2	-	348
6AG11								
(Key at 8)	Tri-1	9	9	22	2	4	-	23
	Di-1	9	9	24	2	6	-	5
(Key at 2)	Tri-2	3	9	22	2	6	-	78
	Di-2	3	9	24	2	4	-	5
6AG12		8	9	20	1	5	27	2
6AH9								
(Key at 0)	Tri	1	9	23	2	4	56	23
(Key at 7)	Pen	6	9	21	2	1	-	250
6AL11								
(Key at 2)	Pen-1	1	9	18	3	4	3	5689
(Key at 6)	Pen-2	5	9	18	3	2	7	134
6AM5		3	9	25	2	2	-	157
6AN6	Di-1	1	9	20	3	6	-	2
"	Di-2	1	9	18	3	-	-	3
"	Di-3	1	9	20	3	-	-	4
"	Di-4	1	9	21	3	-	-	5
6AR8	Pen-1	4	9	24	2	7	-	369
"	Pen-2	4	9	24	2	-	-	368
6AR11								
(Key at 2)	Pen-2	3	9	21	2	8	-	4567
(Key at 8)	Pen-1	9	9	21	2	6	-	2345
6AS11								
(Key at 0)	Tri-1	1	9	23	2	5	-	68
	Tri-2	1	9	24	2	7	-	34
(Key at 5)	Pen	6	9	22	2	1	-	237
6AV11								
(Key at 5)	Tri-1	6	9	26	2	9	-	12
	Tri-3	6	9	26	2	8	-	37
(Key at 2)	Tri-2	3	9	26	2	8	-	79

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6AX3 (Key at 5)		6	9	24	2	0	29	●29
		●Ignore glow on 2						
6AY3		4	9	24	2	9	27	●27
		●Ignore glow on 2						
6AY11 (Key at 0)	Di-2	1	9	25	2	2	-	3
	Tri-1	1	9	26	2	9	-	78
	Tri-2	1	9	25	2	4	-	56
(Key at 4)	Di-1	3	9	25	2	2	-	1
6B10 (Key at 0)	Tri-1	1	9	25	2	7	-	56
	Tri-2	1	9	25	2	2	-	34
(Key at 6)	Di-1	7	9	18	3	2	-	3
	Di-2	7	9	18	3	-	-	1
6BA3		4	9	4	1	9	27	2
		May show short on 2-7						
6BA11 (Key at 4)	Pen-1	3	9	24	2	0	-	678
(Key at 0)	Pen-2	1	9	24	2	8	-	346
(Key at 8)	Tri	7	9	26	2	5	-	46
6BC5		3	9	23	2	27	27	156
		Must show short on 2-7. Cathode short test - throw 2-7 together						
6BD11 (Key at 0)	Tri-1	1	9	24	2	5	-	68
	Tri-2	1	9	25	2	7	-	34
(Key at 5)	Pen	4	9	25	2	1	-	237
6BE3 (Key at 2)		1	9	23	2	9	60	60
		Must show short on 6-0						
6BF8	Di-1	4	9	25	2	6	-	9
"	Di-2	4	9	25	2	-	-	8
"	Di-3	4	9	25	2	-	-	7
"	Di-4	4	9	25	2	-	-	3
"	Di-5	4	9	25	2	-	-	2
"	Di-6	4	9	25	2	-	-	1

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6BF11								
(Key at 0)	Pen-1	1	9	28	2	2	-	3567
(Key at 8)	Pen-2	7	9	23	2	4	-	356
6BH11								
(Key at 0)	Tri-1	1	9	20	2	2	-	34
	Tri-2	1	9	20	2	5	-	67
(Key at 7)	Pen	6	9	20	2	5	-	234
6BJ3								
(Key at 0)		1	9	24	2	7	-	4
6BK4		2	9	22	3	13468	13468	50
6BK8		4	9	26	2	3	27	169
6BK11								
(Key at 5)	Tri-1	6	9	24	2	9	-	12
	Tri-3	6	9	24	2	8	-	37
(Key at 2)	Tri-2	3	9	24	2	8	-	79
6BN11								
(Key at 7)	Pen-1	6	9	20	2	2	-	135
(Key at 2)	Pen-2	1	9	20	2	4	-	567
6BR3		4	9	18	3	0	29	●29
	●Ignore glow on 2							
6BS3		4	9	16	3	9	27	●27
	●Ignore glow on 2							
6BT6	Tri	3	9	24	2	2	-	17
"	Di-1	3	9	26	3	-	-	5
"	Di-2	3	9	26	3	-	-	6
6BV11								
(Key at 7)	Pen-1	6	9	21	2	2	-	134
(Key at 2)	Pen-2	1	9	21	2	7	-	568
6BW6		4	9	24	2	3	12	1278
6BW11								
(Key at 7)	Pen-1	6	9	21	2	4	-	235
(Key at 2)	Pen-2	1	9	20	2	4	-	567
6BY8	Pen	4	9	5	1	9	-	178
"	Di	4	9	17	3	3	-	6

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6BY11								
(Key at 0)	Pen-1	1	9	21	2	2	-	3567
(Key at 8)	Pen-2	7	9	21	2	4	-	356
6BZ3								
(Key at 0)		1	9	16	3	7	-	4
6C9	Tet-1	4	9	24	2	6	-	789
	Tet-2	4	9	24	2	0	-	123
6CD3								
(Key at 0)		1	9	20	2	7	-	4
6CE3								
(Key at 0)		1	9	20	2	7	-	4
6CG3								
(Key at 0)		1	9	16	3	7	-	4
6CG8	Tri	4	9	24	2	38	38	12
"	Pen	4	9	23	2	-	-	679
6CH3		4	9	20	2	9	27	●27
	●Ignore glow on 2							
6CJ3		4	9	20	2	9	27	2
	Lever 7 must be thrown to open position							
6CK3		4	9	20	2	9	27	●27
	●Ignore glow on 2							
6CK6		4	9	22	2	3	-	127
6CL3		4	9	20	2	9	27	●27
	●Ignore glow on 2							
6CM4		4	9	20	2	37	*	●12689
	*Must show short on 1-2-3-6-7-8-9							
	●Ignore glow on 1-2-6-8							
6CM5		2	9	23	2	38	1348	459
	May show short on 1-3-4-8							
	Cathode short test - throw levers 3-8 together							
6CR8	Tri	4	9	22	2	8	-	19
"	Pen	4	9	21	2	3	-	267
6DE7	Tri-1	4	9	9	1	8	23	67
"	Tri-2	4	9	3	1	9	-	●123
	●Ignore glow on 2							

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6DL4		4	9	21	2	2	13679	18
	Levers 3-6-7-9 must be thrown to open position							
6DM4		7	9	24	2	3	-	5
6DQ4		7	9	18	3	3	-	5
6DR4		3	9	24	2	7	15	●156
	●Ignore glow on 1							
6DR7	Tri-1	4	9	28	2	8	23	67
"	Tri-2	4	9	23	2	9	-	●123
	●Ignore glow on 2							
6DS4		4	9	18	3	3	-	12
6DT4		7	9	4	1	3	15	5
	Lever 1 must be thrown to open position							
6DV4		3	9	19	2	7	1246	●1246
	●Ignore glow on 1-4							
6DW4		4	9	4	1	9	27	2
	Lever 7 must be thrown to open position							
6DY5		2	9	24	2	3	-	279
6DZ4		3	9	24	2	5	-	1267
	Must show short on 1-2-6-7							
6DZ8	Tri	4	9	28	2	8	-	19
"	Pen	4	9	23	2	2	-	367
6EA4								
(Key at 2)		1	9	26	3	47	47	80
	Grid cap goes to top of tube							
6EC4*		4	9	20	2	0	278	●278
	●Ignore glow on 27. Cap goes to top of tube							
	*Must use Magnoval adapter							
6ED4*		4	9	32	2	1	123679	80
	*Must use Magnoval adapter							
	Cap goes to top of tube							
6EF4								
(Key at 3)		2	9	34	2	8	-	90
	Cap goes to top of tube							

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6EH4 (Key at 2)		1	9	26	3	47	47	80
Cap goes to top of tube								
6EJ4 (Key at 3)		2	9	35	2	8	15	90
Cap goes to top of tube								
6EX6		2	9	22	2	3	-	580
6FD6		3	9	23	2	7	-	1256
6FD10		3	10	23	2	7	-	1256
6FG6	Tri	5	9	21	3	3	268	10
"	Eye	5	9	0	4	-	-	●7268
●Ignore glow on 2-6. See instructions for eye test								
6FM7 (Key at 7)	Tri-1	6	9	19	3	3	-	45
(Key at 2)	Tri-2	1	9	18	3	9	-	57
6FQ7	Tri-1	4	9	7	1	8	-	67
"	Tri-2	4	9	7	1	3	-	12
6FY7 (Key at 5)	Tri-1	4	9	8	1	1	-	23
(Key at 2)	Tri-2	1	9	22	2	9	-	57
6G11 (Key at 6)	Pen-1	7	9	23	2	2	-	134
(Key at 2)	Pen-2	1	9	25	2	4	-	5689
6G-B3		2	9	18	3	8	-	450
6GB5*		4	9	22	2	38	123678	160
Levers 2-7 must be thrown to open position								
*Must use Magnoval adapter. Grid cap goes to top of tube								
6G-B7		2	9	4	1	8	-	450
6GD7	Tri	4	9	20	2	38	38	12
"	Pen	4	9	20	2	-	-	679
6GE5 (Key at 5)		6	9	23	2	29	2389	●7380
●Ignore glow on 3								

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6GF5 (Key at 5)		6	9	23	2	29	2389	●7380
		●Ignore glow on 3						
6GF7	Tri-1	4	9	29	2	1	-	89
"	Tri-2	4	9	23	2	3	-	26
6GJ5		4	9	24	2	3	1267	670
		Levers 1-2 must be thrown to open position						
6GJ7	Tri	4	9	21	2	13	13	89
"	Pen	4	9	20	2	-	-	267
6GK6		4	9	23	2	1	39	278
6G-K17		7	9	22	2	3	-	5
6GL7	Tri-1	7	9	26	2	6	-	45
"	Tri-2	7	9	22	2	3	-	12
6GM5		4	9	25	2	7	-	169
6GM8	Tri-1	4	9	23	2	8	-	67
"	Tri-2	4	9	23	2	3	-	12
6GN8	Tri	4	9	24	2	1	-	23
"	Pen	4	9	22	2	6	-	789
6GQ7	Di-1	4	9	17	3	9	-	8
"	Di-2	4	9	17	3	7	-	6
"	Di-3	4	9	17	3	1	-	2
6GT5		4	9	23	2	3	1267	●12679
		●Ignore glow on 12						
6GU5		3	9	21	2	27	27	156
		Must show short on 2-7						
6GU7	Tri-1	4	9	24	2	8	5	67
"	Tri-2	4	9	24	2	3	-	12
6GV5 (Key at 4)		3	9	24	2	18	1278	2790
		Must show short on 1-2-7-8. Grid cap goes to top of tube Cathode short test - throw 1-8 together						
6GV7	Tri	4	9	21	2	68	68	19
"	Pen	4	9	19	2	-	-	237
		Cathode short test - throw 6-8 together						

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6GV8	Tri	4	9	24	2	3	-	12
"	Pen	4	9	22	2	8	-	679
6GW5		3	9	20	2	5	26	●126
	●Ignore glow on 2							
6GW6		2	9	18	3	8	-	450
6GW8	Tri	4	9	26	2	2	-	19
"	Pen	4	9	23	2	7	-	368
6GX6		3	9	23	2	2	-	1567
6GX7	Tri	4	9	21	2	13	13	89
"	Pen	4	9	20	2	-	-	267
6GX8	Tri	4	9	21	2	9	-	18
"	Eye	4	9	0	4	3	-	67
	See instructions for eye test							
6GY5								
(K _y at 4)		3	9	22	2	18	1278	2790
	Must show short on 1-2-7-8							
	Cathode short test - throw 1-8 together							
6GY6		3	9	21	2	2	-	1567
6GY8	Tri-1	4	9	28	2	7	-	6
"	Tri-2	4	9	22	2	8	-	39
"	Tri-3	4	9	27	2	-	-	12
6GZ5		3	9	21	2	1	25	●2567
	●Ignore glow on 2							
6HA5		3	9	21	2	27	27	15
	Lever 2 must be thrown to open position							
6HA6		4	9	22	2	1	3689	●2687
	●Ignore glow on 6							
6HB5								
(Key at 0)		1	9	22	2	4	-	237
6HB6		4	9	22	2	1	3689	●396827
	●Ignore glow on 36							
6HB7	Tri	4	9	23	2	13	13	89
"	Pen	4	9	24	2	13	13	267
	Lever 1 must be thrown to open position							

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6HC8	Tri	4	9	18	3	8	-	19
"	Pen	4	9	18	3	2	-	367
6HD5 (Key at 0)		1	9	20	2	4	59	357
Lever 9 must be thrown to open position								
6HE5 (Key at 2)		1	9	19	3	6	0	4580
Must show short on 5-0								
6HE7 (Key at 0)	Di	1	9	16	3	4	-	2
*Caution: - Lever 5 must be thrown to open position before inserting tube								
(Key at 8)	Pen*	7	9	16	2	3	-	46
6HF5 (Key at 4)		3	9	23	2	18	1278	2790
Must show short on 1278. Grid cap goes to top of tube Cathode short test - throw 1-8 together								
6HF8	Tri	4	9	24	2	1	-	23
"	Pen	4	9	22	2	6	-	789
6HG5		3	9	7	1	2	17	●1756
●Ignore glow on 1								
6HJ5 (Key at 0)		1	9	20	2	4	59	●3579
●Ignore glow on 57								
6HJ7	Tri	4	9	19	2	13	13	89
"	Pen	4	9	20	2	-	-	267
6HJ8	Pen	4	9	23	2	1	-	2369
"	Di	4	9	24	2	7	-	8
6HK5		3	9	21	2	27	27	15
6HL5		4	9	21	2	3	12	●1279
●Ignore glow on 1								
6HL8	Tri	4	9	22	2	8	-	19
"	Pen	4	9	21	2	7	-	236
6HM5		3	9	22	2	27	27	15
Lever 2 must be thrown to open position								

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6HM6		4	9	20	2	13	13	278
6HQ5		3	9	20	2	27	27	15
6HR5		3	9	7	1	2	17	•1756
	●Ignore glow on 1							
6HR6		3	9	21	2	7	-	156
6HS5 (Key at 0)		1	9	20	2	4	-	27
6HS6		3	9	22	2	7	-	1256
6HT6		4	9	22	2	13	-	278
	Lever 3 must be thrown to open position							
6HU6	Tri	4	9	29	2	3	268	19
"	Eye	4	9	0	4	-	-	67
	Lever 2-8 must be thrown to open position							
	See instructions for eye test							
6HU8	Pen-1	4	9	22	2	7	-	123
"	Pen-2	4	9	22	2	-	-	689
6HW8		4	9	24	2	7	-	123689
6HZ6		4	9	17	3	2	-	156
6J9	Tri-1	4	9	20	2	0	-	78
"	Tri-2	4	9	20	2	-	-	69
"	Tri-3	4	9	20	2	3	-	12
6J10								
(Key at 0)	Pen-1	0	9	26	4	8	1	4567
(Key at 6)	Pen-2	5	9	18	3	9	7	248
6J11								
(Key at 2)	Pen-2	3	9	22	2	8	-	4567
(Key at 8)	Pen-1	9	9	22	2	3	-	2456
6JA8	Tri	4	9	24	2	1	-	23
"	Tet	4	9	24	2	6	-	789
6JB6		4	9	18	3	3	1267	670
	Lever 1-2 must be thrown to open position							
6JC6		4	9	22	2	13	13	278

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6JC8	Tri	4	9	18	3	17	7	89
"	Pen	4	9	18	3	-	-	236
Cathode short test - throw 1-7 together								
6JD6		4	9	22	2	13	13	278
6JE6		4	9	23	2	3	1267	●126780
●Ignore glow on 12. Grid cap goes to top of tube								
6JF6		4	9	20	2	3	1267	●12670
●Ignore glow on 1-2-6. Grid cap goes to top of tube								
6JG6		4	9	17	3	3	17	279
Lever 1 must be thrown to open position								
6JH6		3	9	22	2	2	-	1567
6JH8	Sec-1	4	9	24	2	7	5	369
"	Sec-2	4	9	24	2	-	-	368
6JK6		3	9	21	2	2	-	156
6JK8	Tri-1	4	9	18	3	8	-	67
"	Tri-2	4	9	18	3	3	-	12
6JL6		3	9	22	2	2	-	156
6JM6 (Key at 3)		2	9	21	2	5	-	680
Grid cap goes to top of tube								
6JN6 (Key at 5)		6	9	21	2	7	29	380
6JN8	Tri	4	9	22	2	3	-	12
"	Pen	4	9	23	2	8	-	679
6JS6 (Key at 3)		4	9	20	2	5	16	●1680
●Ignore glow on 1. Cap goes to top of tube								
6JT6		4	9	23	2	3	17	279
Lever 1 must be thrown to open position								
6JT8	Tri	4	9	23	2	1	-	23
"	Pen	4	9	21	2	6	-	789
6JU6		4	9	20	2	3	1267	●12670
●Ignore glow on 1-2-6. Grid cap goes to top of tube								

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6JU8	Di-1	4	9	24	2	9	*	78
"	Di-2	4	9	24	2	98	-	7
"	Di-3	4	9	24	2	3	-	12
"	Di-4	4	9	24	2	32	-	1
*Must show short on 2-8								
6JV8	Tri	4	9	18	3	1	-	23
"	Pen	4	9	17	3	-	-	789
6JW8	Tri	4	9	22	2	8	-	19
"	Pen	4	9	21	2	7	-	236
6JX8	Tri	4	9	23	2	3	-	89
"	Hep	4	9	21	2	-	-	267
6JZ6 (Key at 3)		2	9	20	2	5	-	780
Grid cap goes to top of tube								
6JZ8 (Key at 8)	Pen	9	9	23	2	4	12	●1230
●Ignore glow on 1								
(Key at 5)	Tri	6	9	26	2	3	-	27
6KA8	Tri	4	9	24	2	3	-	12
"	Pen	4	9	22	2	3	-	6789
6KD6 (Key at 4)		3	9	20	2	6	1278	●2790
●Ignore glow on 2. Cap goes to top of tube								
6KD8	Tri	4	9	22	2	8	-	19
"	Pen	4	9	22	2	7	-	236
6KE8	Tri	4	9	24	2	8	-	19
"	Pen	4	9	23	2	7	-	236
6KG6*		4	9	20	2	9	123678	680
*Must use Magnoval adapter. Grid cap goes to top of tube Levers 1-3 must be thrown to open position								
6KL8	Pen	4	9	24	2	3	-	1267
"	Di	4	9	28	3	-	-	8
6KM6		4	9	21	2	3	1267	670
Levers 1-2 must be thrown to open position Grid cap goes to top of tube								

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6KM8	Di	4	9	27	3	6	-	3
"	Tet-1	4	9	5	1	-	-	178
"	Tet-2	4	9	6	1	-	-	278
"	Tet-3	4	9	5	1	-	-	789
6KN6 (Key at 6)		2	9	20	5	8	4-9	●2490
●Ignore glow on 4. Cap goes to top of tube								
6KN8	Tri-1	4	9	20	2	8	-	67
"	Tri-2	4	9	20	2	3	-	12
6KR8	Tri	4	9	20	2	1	-	23
"	Pen	4	9	20	2	6	-	789
6KS6		3	9	41	3	1	-	2567
6KT6		4	9	21	2	13	13	278
6KT8	Tri	4	9	21	2	1	-	23
"	Pen	4	9	20	2	6	-	789
6KU8	Di-1	4	9	25	3	1	-	3
"	Di-2	4	9	25	3	1	-	2
"	Pen	4	9	22	2	6	-	789
6KV6		4	9	20	2	3	17	279
Lever 1 must be thrown to open position								
6KV8	Tri	4	9	23	2	1	-	23
"	Pen	4	9	21	2	6	-	789
6KX8	Tri-1	4	9	24	2	8	-	79
"	Tri-2	4	9	24	2	2	-	13
6KY6		4	9	20	2	1	39	278
6KY8	Tri	4	9	25	2	1	-	89
"	Pen	4	9	21	2	3	-	267
6KZ8	Tri	4	9	22	2	8	-	19
"	Pen	4	9	22	2	3	-	267
6LB6 (Key at 4)		3	9	21	2	6	1278	●2790
●Ignore glow on 2. Cap goes to top of tube								
6LB8	Tri	4	9	29	2	1	-	23
"	Pen	4	9	22	2	6	-	789

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6LC6		2	9	35	2	6	134	50
6LC8	Tri	4	9	24	2	3	5	12
"	Pen	4	9	22	2	7	5	689
May show short on 3-7								
6LE8	Pen-1	4	9	22	2	3	-	189
"	Pen-2	4	9	22	2	-	-	689
6LF8	Tri	4	9	24	2	1	-	23
"	Pen	4	9	21	2	6	-	789
6LJ8	Tri	4	9	21	2	38	38	12
"	Pen	4	9	20	2	-	-	679
6LM8	Tri	4	9	23	2	8	-	19
"	Pen	4	9	23	2	7	-	236
6LN8	Tri	4	9	23	2	8	-	19
"	Pen	4	9	22	2	7	-	236
6LQ8	Tri	4	9	20	2	1	-	23
"	Pen	4	9	20	2	6	-	7-8-9
6LR8	Tri	4	9	21	2	1	-	89
"	Pen	4	9	20	2	3	-	267
6LT8	Di-1	4	9	16	3	7	-	8
"	Di-2	4	9	16	3	7	-	6
"	Pen	4	9	19	2	1	-	239
May show short on 1								
6LU8								27
(Key at 5)	Tri	6	9	21	2	3	-	
(Key at 8)	Pen	9	9	21	2	4	12	●1230
●Ignore glow on 1								
6LX8	Tri	4	9	22	2	8	-	19
"	Pen	4	9	21	2	7	-	236
6LY8	Tri	4	9	22	2	1	-	23
"	Pen	4	9	20	2	6	-	789
6M11								78
(Key at 0)	Tri-1	1	9	22	2	9	-	56
	Tri-2	1	9	22	2	4	-	267
(Key at 4)	Pen	5	9	23	2	1	-	

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6MB8	Tri	4	9	20	2	3	-	12
"	Pen	4	9	19	2	8	-	679
6MD8	Tri-1	4	9	22	2	7	-	36
"	Tri-2	4	9	22	2	-	-	28
"	Tri-3	4	9	22	2	-	-	19
6ME8	Sec-1	4	9	21	2	7	-	369
"	Sec-2	4	9	21	2	-	-	368
6MF8 (Key at 8)	Pen	9	9	22	2	4	12	•1230
(Key at 5)	Tri	6	9	21	2	3	-	27
6MG8	Tri	4	9	21	2	8	-	19
"	Pen	4	9	21	2	7	-	236
6M-HH3	Tri	3	9	24	2	7	-	25
"	Tri	3	9	24	2	-	-	16
6MJ8 (Key at 0)	Tri-1	1	9	22	2	3	-	68
(Key at 4)	Tri-2	3	9	22	2	7	-	18
	Tri-3	3	9	22	2	-	-	26
6MK8	Pen-1	4	9	22	2	1	-	237
"	Pen-2	4	9	22	2	-	-	278
6Q11 (Key at 5)	Tri-1	6	9	25	2	9	-	12
	Tri-3	6	9	25	2	8	-	37
(Key at 2)	Tri-2	3	9	25	2	8	-	79
6R3		4	9	22	2	0	*	29
		*May show short on all pins						
6R4		4	9	23	2	3	-	18
6R-HH2	Tri	4	9	24	2	8	-	67
"	Tri	4	9	24	2	3	-	12
6R-HH8	Tri-1	4	9	20	2	8	-	67
"	Tri-2	4	9	20	2	3	-	12
6R-K19		4	9	18	3	0	29	•29
		•Ignore glow on 2						

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
6R-P22		4	9	20	2	1	2389	●236
●Ignore glow on 2. Throw levers 8-9 to open position								
6T9								
(Key at 4)	Tri	3	9	25	2	9	-	68
(Key at 8)	Pen	7	9	3	1	4	-	356
6T10								
(Key at 6)	Pen-1	5	9	19	3	2	-	134
(Key at 2)	Pen-2	1	9	19	3	4	-	5789
6U9	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
6U10								
(Key at 5)	Tri-1	4	9	26	2	9	-	12
(Key at 0)	Tri-2	1	9	26	2	6	-	57
(Key at 3)	Tri-3	4	9	26	2	6	-	15
6V9	Tri	5	9	20	2	9	-	80
"	Hep	5	9	21	2	1	-	347
6X9	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
6Y9	Pen-1	5	9	20	2	7	-	890
"	Pen-2	5	9	20	2	2	-	134
6Y10								
(Key at 6)	Pen-1	5	9	21	2	2	-	134
(Key at 2)	Pen-2	1	9	20	2	4	-	5789
6Z10								
(Key at 0)	Pen-1	0	9	26	4	8	1	4567
(Key at 6)	Pen-2	5	9	18	3	9	7	248
7GS7	Tri	4	10	21	2	38	38	12
"	Pen	4	10	20	2	-	-	679
7GV7	Tri	4	10	21	2	68	68	19
"	Pen	4	10	19	2	-	-	237
Cathode short test - throw 6-8 together								
7KY6		4	10	20	2	1	39	278
7KZ6		4	10	21	2	1	39	278
8A8	Tri	4	12	24	2	8	-	19
"	Pen	4	12	24	2	7	-	236

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
8AC9								
(Key at 0)	Di	1	11	16	3	3	3	2
(Key at 7)	Pen	6	11	20	2	6	-	345
8AR11								
(Key at 2)	Pen-2	3	11	21	2	8	-	4567
(Key at 8)	Pen-1	9	11	21	2	6	-	2345
8B8	Tri	4	10	25	2	8	-	19
"	Pen	4	10	23	2	2	-	367
8B10								
(Key at 0)	Tri-1	1	11	25	2	7	-	56
	Tri-2	1	11	25	2	2	-	34
(Key at 6)	Di-1	7	11	18	3	2	-	3
	Di-2	7	11	18	3	-	-	1
8BA11								
(Key at 4)	Pen-1	3	11	24	2	0	-	678
(Key at 0)	Pen-2	1	11	24	2	8	-	346
(Key at 8)	Tri	7	11	26	2	5	-	46
8BM11								
(Key at 0)	Pen-2	1	11	21	2	5	-	236
(Key at 8)	Pen-1	7	11	21	2	5	-	246
8BN11								
(Key at 7)	Pen-1	6	11	20	2	2	-	135
(Key at 2)	Pen-2	1	11	20	2	4	-	567
8BQ7	Tri-1	4	10	24	2	8	-	67
"	Tri-2	4	10	24	2	3	-	12
8BQ11								
(Key at 2)	Pen-2	3	11	19	2	8	-	457
(Key at 8)	Pen-1	9	11	19	2	6	-	345
8BU11								
(Key at 0)	Tri-1	1	10	21	2	2	-	34
	Tri-2	1	10	21	2	5	-	67
(Key at 7)	Pen	6	10	21	2	5	-	234
8CL8	Tri	4	10	23	2	3	-	12
"	Tet	4	10	23	2	8	-	679
8CY5		3	11	23	2	27	27	156

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
8DX8	Tri	4	11	23	2	3	-	12
"	Pen	4	11	23	2	7	-	689
8FQ7	Tri-1	4	11	6	1	8	-	67
"	Tri-2	4	11	6	1	3	-	12
8GJ7	Tri	4	11	21	2	13	13	89
"	Pen	4	11	20	2	-	-	267
8GM6		3	11	21	2	2	-	1567
8GN8	Tri	4	11	24	2	1	-	23
"	Pen	4	11	22	2	6	-	789
8GU7	Tri-1	4	11	24	2	8	-	67
"	Tri-2	4	11	24	2	3	-	12
8GX7	Tri	4	10	21	2	13	13	89
"	Pen	4	10	20	2	-	-	267
8HA6		4	11	22	2	1	3689	●2687
	●Ignore glow on 6							
8HG8	Tri	4	11	23	2	3	13	67
"	Pen	4	11	22	2	1	13	289
8JK8	Tri-1	4	11	18	3	8	-	67
"	Tri-2	4	11	18	3	3	-	12
8JT8	Tri	4	10	23	2	1	-	23
"	Pen	4	10	21	2	6	-	789
8JU8	Di-1	4	11	24	2	9	*	78
"	Di-2	4	11	24	2	98	-	7
"	Di-3	4	11	24	2	3	-	12
"	Di-4	4	11	24	2	32	-	1
	*Must show short on 2-8							
8JV8	Tri	4	11	18	3	1	-	23
"	Pen	4	11	17	3	-	-	789
8KA8	Tri	4	11	24	2	3	-	12
"	Pen	4	11	22	2	3	-	6789
8KT8	Tri	4	11	21	2	1	-	23
"	Pen	4	11	20	2	6	-	789

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
8LC8	Tri	4	10	24	2	3	5	12
"	Pen	4	10	22	2	7	5	689
May show short on 3-7								
8LE8	Pen-1	4	11	22	2	3	-	189
"	Pen-2	4	11	22	2	-	-	689
8LT8	Di-1	4	11	16	3	7	-	8
"	Di-2	4	11	16	3	7	-	6
"	Pen	4	11	19	2	1	-	239
<u>May show short on 1</u>								
8R-HP1	Tri	4	10	25	2	8	-	19
"	Pen	4	10	23	2	2	-	367
8U9	Tri	5	10	22	2	1	-	90
"	Pen	5	10	20	2	2	-	378
8X9	Tri	5	10	22	2	1	-	90
"	Pen	5	10	20	2	2	-	378
9A8	Tri	4	12	24	2	8	-	19
"	Pen	4	12	24	2	7	-	236
9AB4		3	12	22	2	7	-	16
9BJ11								
(Key at 0)	Pen-2	1	12	16	2	5	-	236
(Key at 8)	Pen-1	7	12	16	2	5	-	246
9CG8	Tri	4	12	24	2	38	38	12
"	Pen	4	12	23	2	-	-	679
9DZ8	Tri	4	12	28	2	8	-	19
"	Pen	4	12	23	2	2	-	367
9EA8	Tri	4	12	22	2	8	-	19
"	Pen	4	12	22	2	7	-	236
9ED4*		4	10	32	2	1	123679	80

Cap goes to top of tube

*Must use Magnoval adapter

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
9FG6	Tri	4	6	34	2	3	268	19
"	Eye*	4	6	0	4	-	-	67
*Levers 2-8 must be thrown to open position See instructions for eye test								
9GH8	Tri	4	12	22	2	8	-	19
"	Pen	4	12	22	2	7	-	2-3-6
9GV8	Tri	4	12	24	2	3	-	12
"	Pen	4	12	22	2	8	-	679
9JW8	Tri	4	12	22	2	8	-	19
"	Pen	4	12	21	2	7	-	236
9KC6		4	11	20	2	1	-	279
9KV8	Tri	4	11	23	2	1	-	23
"	Pen	4	11	21	2	6	-	789
9KZ8	Tri	4	12	22	2	8	-	19
"	Pen	4	12	22	2	3	-	267
9LA6		4	11	21	2	1	39	278
9R-AL1	Tri-1	4	11	25	2	8	23	67
"	Tri-2	4	11	21	2	9	-	●123
●Ignore glow on 2								
9R-HR2	Tri-	4	12	22	2	8	-	19
"	Pen	4	12	22	2	7	-	236
9V9	Tri	5	12	20	2	9	-	80
"	Hep	5	12	21	2	1	-	347
10AL11								
(Key at 2)	Pen-1	1	12	18	3	4	3	5689
(Key at 6)	Pen-2	5	12	18	3	2	7	134
10CW5		4	12	21	2	3	*	●126789
●Ignore glow on 1-6-7. May show short on 1-2-6-7-8-9								
10DX8	Tri	4	12	23	2	3	-	12
"	Pen	4	12	23	2	7	-	689
10EM7	Tri-1	7	12	26	2	6	-	45
"	Tri-2	7	12	22	2	3	-	12

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
10FD12	Pen	4	16	24	2	3	-	1269
"	Di-1	4	16	21	3	-	-	7
"	Di-2	4	16	21	3	-	-	8
10GF7	Tri-1	4	12	29	2	1	-	89
"	Tri-2	4	12	23	2	3	-	26
10GH8	Tri	4	12	22	2	8	-	19
"	Pen	4	12	22	2	7	-	236
10GK6		4	12	23	2	1	39	●2379
	●Ignore glow on 3							
10GN8	Tri	4	12	24	2	1	-	23
"	Pen	4	12	22	2	6	-	789
10HA6		4	12	22	2	1	3689	●2687
	●Ignore glow on 6							
10HF8	Tri	4	12	24	2	1	-	23
"	Pen	4	12	22	2	6	-	789
10JA8	Tri	4	12	24	2	1	-	23
"	Tet	4	12	24	2	6	-	789
10JT8	Tri	4	12	23	2	1	-	23
"	Pen	4	12	21	2	6	-	789
10JY8	Tri	4	12	18	3	1	-	23
"	Pen	4	12	18	3	6	-	789
10KR8	Tri	4	12	20	2	1	-	23
"	Pen	4	12	20	2	6	-	789
10KU8	Di-1	4	12	25	3	1	5	3
"	Di-2	4	12	25	3	1	-	2
"	Pen	4	12	22	2	6	-	789
10LB8	Tri	4	12	29	2	1	-	23
"	Pen	4	12	22	2	6	-	789
10LD12	Tri	4	18	25	2	7	-	89
"	Di-1	4	18	25	3	-	-	6
"	Di-2	4	18	17	3	3	-	2
"	Di-3	4	18	17	3	-	-	1
10LD13	Tri	4	13	8	1	3	79	12
"	Di-1	4	13	26	3	-	-	8
"	Di-2	4	13	26	3	-	-	6

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
10LE8	Pen-1	4	12	22	2	3	-	189
"	Pen-2	4	12	22	2	-	-	689
10LW8	Tri	4	12	21	2	1	-	23
"	Pen	4	12	20	2	6	-	789
10LZ8	Tri	4	12	22	2	1	-	23
"	Pen	4	12	20	2	6	-	789
11AR11								
(Key at 2)	Pen-2	3	12	21	2	8	-	4567
(Key at 8)	Pen-1	9	12	21	2	6	-	2345
11BM8	Tri	4	13	23	2	8	-	19
"	Pen	4	13	23	2	2	-	367
11BN11								
(Key at 7)	Pen-1	6	12	20	2	2	-	135
(Key at 2)	Pen-2	1	12	20	2	4	-	567
11BQ11								
(Key at 2)	Pen-2	3	12	19	2	8	-	457
(Key at 8)	Pen-1	9	12	19	2	6	-	345
11BT11								
(Key at 2)	Tri-1	1	12	23	2	8	-	79
(Key at 5)	Tri-2	4	12	21	2	9	-	18
(Key at 6)	Pen	5	12	21	2	1	-	348
11CY7	Sec-1	4	12	28	2	8	-	67
"	Sec-2	4	12	23	2	9	23	●123
	●Ignore glow on 2							
11FY7								
(Key at 5)	Tri-1	4	12	8	1	1	-	23
(Key at 2)	Tri-2	1	12	22	2	9	-	57
11HM7		6	8	20	2	1	3459	278
11KV8	Tri	4	12	23	2	1	-	23
"	Pen	4	12	21	2	6	-	789
11LQ8	Tri	4	12	20	2	1	-	23
"	Pen	4	12	20	2	6	-	789
11Y9	Pen-1	5	12	20	2	7	-	890
"	Pen-2	5	12	20	2	2	-	134

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
12AE10								
(Key at 6)	Pen-1	5	13	16	3	2	-	134
(Key at 2)	Pen-2	1	13	16	3	4	-	5789
12AF4		3	13	23	2	5	1267	●1726
	●Ignore glow on 12							
12AJ7	Tri	4	13	25	2	3	-	89
"	Hep	4	13	23	2	3	-	126
12AL11								
(Key at 2)	Pen-1	1	13	18	3	4	3	5689
(Key at 6)	Pen-2	5	13	18	3	2	7	134
12AU8	Tri	4	13	24	2	1	-	23
"	Pen	4	13	24	2	6	-	789
12AW6		3	13	22	2	2	-	156
12AX3								
(Key at 5)		6	13	24	2	0	29	●29
	●Ignore glow on 2							
12AX12		7	13	23	2	0	28	281
12AY3		4	13	24	2	9	27	●27
	●Ignore glow on 2							
12B-B14*		4	13	20	2	38	123678	●12670
	●Ignore glow on 16. Cap goes to top of tube							
	*Must use Magnoval adapter							
12BE3								
(Key at 2)		1	13	23	2	9	60	60
	Must show short on 6-0							
12BF11								
(Key at 0)	Pen-1	1	13	28	2	2	-	3567
(Key at 8)	Pen-2	7	13	23	2	4	-	356
12BR3		4	13	18	3	0	29	●29
	●Ignore glow on 2							
12BS3		4	13	16	3	9	27	●27
	●Ignore glow on 2							
12BT3								
(Key at 0)		1	13	2	4	7	-	4

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
12BV11 (Key at 7)	Pen-1	6	13	21	2	2	-	134
(Key at 2)	Pen-2	1	13	21	2	7	-	568
12CK3		4	13	20	2	9	27	●27
	●Ignore glow on 2							
12CL3		4	9	20	2	9	27	●27
	●Ignore glow on 2							
12DA6		4	13	24	2	3	16	278
12DK6		3	13	23	2	2	-	1567
12DM4		7	13	24	2	3	-	5
12DM7	Tri-1	9	9	27	2	8	45	67
"	Tri-2	9	9	27	2	3	-	12
12DQ4		7	13	18	3	3	-	5
12DT7	Tri-1	9	9	27	2	8	45	67
"	Tri-2	9	9	27	2	3	-	12
12DZ8	Tri	4	13	28	2	8	-	19
"	Pen	4	13	23	2	2	-	367
12FQ7	Tri-1	4	13	7	1	8	-	67
"	Tri-2	4	13	7	1	3	-	12
12FS5		3	13	22	2	27	27	156
12FV7	Tri-1	5	9	18	3	8	49	67
"	Tri-2	4	9	18	3	3	59	12
12FX5		3	13	17	3	1	25	267
	Lever 5 must be thrown to open position							
12G11 (Key at 6)	Pen-1	7	13	23	2	2	-	134
(Key at 2)	Pen-2	1	13	25	2	4	-	5689
12G-B3		2	13	20	2	8	-	450
12GC5		4	13	23	2	7	1363	●18369
	●Ignore glow on 13							
12GJ5		4	13	24	2	3	1267	670
	Levers 1-2 must be thrown to open position							

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
12G-K17		7	13	7	1	3	-	5
12GN7		6	9	21	2	1	39	278
12GT5		4	13	23	2	3	1267	●12679
	●Ignore glow on 12							
12GW6		2	13	18	3	8	-	450
12HE7 (Key at 0)	Di	1	13	16	3	4	-	2
	*Caution:- Lever 5 must be thrown to open position before inserting tube							
(Key at 8)	Pen*	7	13	16	2	3	-	46
12HG7		6	9	20	2	1	39	278
12HL5		4	13	21	2	3	12	●1279
	●Ignore glow on 1							
12HL7		6	9	20	2	1	3459	●39278
	●Ignore glow on 3							
12JB6		4	13	18	3	3	1267	670
	Levers 1-2 must be thrown to open position							
12JN6 (Key at 5)		6	13	21	2	7	29	380
12JN8	Tri	4	13	22	2	3	-	12
"	Pen	4	13	23	2	8	-	679
12JS6 (Key at 3)		4	13	20	2	5	16	●1680
	●Ignore glow on 1. Grid cap goes to top of tube							
12JT6		4	13	23	2	3	17	279
	Lever 1 must be thrown to open position							
12JZ8 (Key at 8)	Pen	9	13	23	2	4	12	●1230
	●Ignore glow on 1							
(Key at 5)	Tri	6	13	26	2	3	-	27
12KA8	Tri	4	13	24	2	3	-	12
"	Pen	4	13	22	2	3	-	6789

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
12KL8	Pen	4	13	24	2	3	-	1267
"	Di	4	13	28	3	-	-	8
12MD8	Tri-1	4	13	22	2	7	-	36
"	Tri-2	4	13	22	2	-	-	28
"	Tri-3	4	13	22	2	-	-	19
12R-K19		4	13	17	3	0	29	●29
	●Ignore glow on 2							
12R-LL5	Tri-1	4	13	7	1	8	-	67
"	Tri-2	4	13	7	1	3	-	12
12T10								
(Key at 6)	Pen-1	5	13	19	3	2	-	134
(Key at 2)	Pen-2	1	13	19	3	4	-	5789
13CM5		2	13	23	2	38	1348	459
	Must show short on 1-3-4-8.							
	Cathode short test - throw 3-8 together							
13CW4		4	13	17	3	3	-	12
13CW9		4	12	17	3	3	-	27
13FM7								
(Key at 7)	Tri-1	6	13	19	3	3	-	45
(Key at 2)	Tri-2	1	13	19	3	9	-	57
13GB5*		4	13	22	2	38	123678	160
	*Must use Magnoval adapter. Grid cap goes to top of tube.							
	Levers 2-7 must be thrown to open position							
13GF7	Tri-1	4	13	29	2	1	-	89
"	Tri-2	4	13	23	2	3	-	26
13J10								
(Key at 0)	Pen-1	0	13	26	4	8	1	4567
(Key at 6)	Pen-2	5	13	18	3	9	7	248
13JT8	Tri	4	13	23	2	1	-	23
"	Pen	4	13	21	2	6	-	789
13V10								
(Key at 0)	Pen-1	1	13	22	2	2	-	367
(Key at 8)	Pen-2	7	13	21	2	4	-	356
13Z10								
(Key at 0)	Pen-1	0	13	26	4	8	1	4567
(Key at 6)	Pen-2	5	13	18	3	9	7	248

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
14BF11								
(Key at 0)	Pen-1	1	13	28	2	2	-	3567
(Key at 8)	Pen-2	7	13	23	2	4	-	356
14BL11								
(Key at 0)	Tri-1	1	14	22	2	6	-	57
(Key at 5)	Tri-2	4	14	20	2	9	-	18
(Key at 7)	Pen	6	14	20	2	2	-	459
14BQ11								
(Key at 2)	Pen-2	3	14	19	2	8	-	457
(Key at 8)	Pen-1	9	14	19	2	6	-	345
14BR11								
(Key at 0)	Tri-1	1	14	23	2	5	-	68
(Key at 5)	Tri-2	4	14	23	2	0	-	12
	Pen	4	14	21	2	9	-	378
14GW8	Tri	4	14	26	2	2	-	19
"	Pen	4	14	23	2	7	-	368
14JG8	Di-1	4	14	18	3	3	-	2
"	Di-2	4	14	18	3	1	-	6
"	Tri	4	14	19	3	7	-	89
15A6		4	14	25	2	3	-	1267
15AF11								
(Key at 7)	Pen	6	14	19	3	3	-	459
(Key at 2)	Di-1	1	14	19	3	9	-	56
(Key at 0)	Di-2	1	14	19	3	5	-	68
15AQ3		4	14	23	2	0	*	●389
	●Ignore glow on 38. *Cont test - 1236789							
15BD11								
(Key at 0)	Tri-1	1	14	24	2	5	-	68
	Tri-2	1	14	25	2	7	-	34
(Key at 5)	Pen	4	14	25	2	1	-	237
15CW5		4	14	21	2	3	-	●126978
	●Ignore glow on 1-6. May show short on 1-2-6-9-7-8.							
15DQ8	Tri	4	14	23	2	3	-	12
"	Pen	4	14	24	2	7	-	689
15FM7								
(Key at 7)	Tri-1	6	14	19	3	3	-	45
(Key at 2)	Tri-2	1	14	19	3	9	-	57

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
15FO7		5	14	19	2	0	-	12
15FY7								
(Key at 5)	Tri-1	4	14	8	1	1	-	23
(Key at 2)	Tri-2	1	14	22	2	9	-	57
15HA6		4	14	22	2	1	3689	●2687
	●Ignore glow on 6							
15HB6		4	14	22	2	1	3689	●236789
	●Ignore glow on 3-6							
15KY8	Tri	4	14	25	2	1	-	89
"	Pen	4	14	21	2	3	-	267
15LE8	Pen-1	4	14	22	2	3	-	189
"	Pen-2	4	14	22	2	-	-	689
16A5		4	15	21	2	3	-	279
16A8	Tri	4	15	24	2	8	-	19
"	Pen	4	15	21	2	2	-	367
16GK6		4	15	23	2	1	39	278
16GY5								
(Key at 4)		3	14	22	2	18	1278	2790
	Must show short on 1-2-7-8							
	Cathode short test - throw levers 1-8 together							
16KA6								
(Key at 4)		3	14	20	2	1	28	790
	Cap goes to top of tube							
16Y9	Pen-1	5	15	20	2	7	-	890
"	Pen-2	5	15	20	2	2	-	134
17A8	Tri	4	15	24	2	8	-	19
"	Pen	4	15	24	2	7	-	236
17AB10								
(Key at 6)	Pen-1	5	15	20	2	9	-	248
(Key at 0)	Pen-2	0	15	24	4	8	-	4567
17AX3								
(Key at 5)		6	15	24	2	0	29	●29
	●Ignore glow on 2							
17AY3		4	15	24	2	9	27	●27
	●Ignore glow on 2							

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
17B4		2	15	8	1	-	-	35
17B-B14*		4	15	20	2	38	123678	●12670
		●Ignore glow on 16. Cap goes to top of tube						
		*Must use Magnoval adapter						
17BD11								
(Key at 0)	Tri-1	1	15	24	2	5	-	68
	Tri-2	1	15	25	2	7	-	34
(Key at 5)	Pen	4	15	25	2	1	-	237
17BE3								
(Key at 2)		1	15	23	2	9	60	60
		Must show short on 6-0						
17BF11								
(Key at 0)	Pen-1	1	15	28	2	2	-	3567
(Key at 8)	Pen-2	7	15	23	2	4	-	356
17BJ6		3	15	23	2	2	-	1567
17BR3		4	15	23	2	0	29	●29
		●Ignore glow on 2						
17BS3		4	15	16	3	9	27	●27
		●Ignore glow on 2						
17BZ3								
(Key at 0)		1	15	16	3	7	-	4
17C9	Tet-1	4	15	24	2	6	-	789
"	Tet-2	4	15	24	2	0	-	123
17CK3		4	15	20	2	9	27	●27
		●Ignore glow on 2						
17CL3		4	14	20	2	9	27	●27
		●Ignore glow on 2						
17DM4		7	15	24	2	3	-	5
17DQ4		7	15	18	3	3	-	5
17DW4		4	15	4	1	9	27	2
		Lever 7 must be thrown to open position						
17FY7								
(Key at 5)	Tri-1	4	15	8	1	1	-	23
(Key at 2)	Tri-2	1	15	22	2	9	-	57

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
17GE5 (Key at 5)		6	15	23	2	29	2389	●7380
		●Ignore glow on 3						
17GJ5		4	15	24	2	3	1267	670
		Levers 1-2 must be thrown to open position						
17GT5		4	15	23	2	3	1267	●12679
		●Ignore glow on 12						
17GT6		1	15	28	2	2	-	3567
17GV5 (Key at 4)		3	15	24	2	18	1278	2790
		Must show short on 1-2-7-8 Cathode short test - throw levers 1-8 together						
17GW6		2	15	18	3	8	-	450
17GY5 (Key at 4)		3	15	22	2	18	1278	2790
		Cathode short test - throw 1-8 together						
17H-B25*		4	15	21	2	9	123678	●12670
		●Ignore glow on 16. Cap goes to top of tube. *Must use Magnoval adapter						
17HC8	Tri	4	15	18	3	8	-	19
"	Pen	4	15	18	3	2	-	367
17HG8	Tri	4	15	23	2	3	13	67
"	Pen	4	15	22	2	1	-	289
17JB6		4	15	18	3	3	1267	670
		Levers 1-2 must be thrown to open position						
17JG6		4	15	17	3	3	17	279
		Lever 1 must be thrown to open position						
17JK8	Tri-1	4	15	18	3	8	-	67
"	Tri-2	4	15	18	3	3	-	12
17JM6 (Key at 3)		2	15	21	2	5	-	680
		Grid cap goes to top of tube						
17JN6 (Key at 5)		6	15	21	2	7	29	380

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
17JS6 (Key at 3)		4	15	20	2	5	1-6	●1680
		●Ignore glow on 1. Grid cap goes to top of tube						
17JT6		4	15	23	2	3	17	279
		Lever 1 must be thrown to open position						
17JU6 (Key at 3)		4	15	20	2	5	16	●1680
		●Ignore glow on 1. Grid cap goes to top of tube						
17JZ8 (Key at 8)	Pen	9	15	23	2	4	12	●1230
		●Ignore glow on 1						
(Key at 5)	Tri	6	15	26	2	3	-	27
17LD8	Tri	4	15	25	2	1	-	89
"	Pen	4	15	21	2	3	-	267
17W6		2	15	24	2	8	-	345
17X10 (Key at 0)	Pen-1	0	15	20	4	8	1	4567
(Key at 6)	Pen-2	5	15	17	3	9	7	248
18DZ8	Tri	4	16	28	2	8	-	19
"	Pen	4	16	23	2	2	-	367
18GD6		3	16	23	2	7	-	156
18GV5 (Key at 4)		3	16	24	2	18	1278	2790
		Grid cap goes to top of tube						
18GV8	Tri	4	16	24	2	3	-	12
"	Pen	4	16	22	2	8	-	679
19AJ8	Hep	4	16	23	2	3	-	126
"	Tri	4	16	24	2	-	-	89
19AQ5		3	16	7	1	2	17	●1756
		●Ignore glow on 1						
19BR5	Tri	4	16	7	1	2	369	17
"	Eye	4	16	0	4	-	-	7369
		See instructions for eye test						
19BX6		4	16	21	2	13	13	2897

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
19BY7		4	16	23	2	13	13	2789
19CG3 (Key at 0)		1	16	16	3	7	-	4
19DE7	Tri-1	4	16	9	1	8	23	67
"	Tri-2	4	16	3	1	9	-	●123
	●Ignore glow on 2							
19EW7	Tri-1	4	16	27	2	8	-	67
"	Tri-2	4	16	23	2	9	23	●123
	●Ignore glow on 2							
19EZ8	Tri-1	4	16	27	2	-	-	89
"	Tri-2	4	16	27	2	-	-	67
"	Tri-3	4	16	23	2	1	-	23
19GQ7	Di-1	4	16	17	3	9	-	8
"	Di-2	4	16	17	3	7	-	6
"	Di-3	4	16	17	3	1	-	2
19HR6		3	16	21	2	7	-	156
19HS6		3	16	22	2	7	-	1256
19JN8	Pen	4	16	23	2	8	-	679
"	Tri	4	16	22	2	3	-	12
19KF6*		4	16	20	2	3	17	●1679
	●Ignore glow on 1-6							
	*Must use Magnoval adapter							
19KG8	Tri	2	16	22	2	3	-	12
"	Pen	2	16	22	2	8	-	679
19Q9	Tri	4	16	21	2	7	-	89
"	Pen	4	16	20	2	0	-	123
19Y3		4	13	3	1	3	-	9
20AQ3		4	16	23	2	0	*	●389
	●Ignore glow on 38 - *Cont test - 1236789							
21A6		4	17	21	2	3	16789	280
	Lever 7 must be thrown to open position							
21AK6		3	17	10	1	7	-	1256
21EX6		2	17	22	2	3	-	580

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
21GY5 (Key at 4)		3	17	22	2	18	1278	2790
Cathode short test - throw 1-8 together								
21HB3		2	22	18	2	-	-	2790
21HB5 (Key at 0)		1	17	22	2	4	-	237
21HD5 (Key at 0)		1	17	20	2	4	59	357
Lever 9 must be thrown to open position								
21HJ5 (Key at 0)		1	17	20	2	4	59	●3579
●Ignore glow on 57								
21JV6 (Key at 5)		6	17	21	2	7	29	●23890
●Ignore glow on 2-3-8								
21JZ6 (Key at 3)		2	17	20	2	5	-	780
Grid cap goes to top of tube								
21KA6 (Key at 4)		3	17	20	2	1	28	790
Cap goes to top of tube								
21KQ6*		4	17	20	2	9	123678	●130
●Ignore glow on 1 . Cap goes to top of tube								
*Must use Magnoval adapter								
Lever 6-8 must be thrown to open position								
21LR8	Tri	4	17	21	2	1	-	89
"	Pen	4	17	20	2	3	-	267
21LU8 (Key at 5)	Tri	6	17	21	2	3	-	27
(Key at 8)	Pen	9	17	21	2	4	12	●1230
●Ignore glow on 1								
22AL3		4	17	24	3	0	*	9
*Must show short on 1-2-3-6-7-8								
Lever 1-2-3-6-7-8 must be thrown to open position								
22BW3 (Key at 0)		1	17	17	3	7	-	4

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
22JF6		4	17	20	2	3	1267	●12670
		●Ignore glow on 1-2-6. Grid cap goes to top of tube						
22JG6		4	17	17	3	3	17	279
		Lever 1 must be thrown to open position						
22JU6		4	17	20	2	3	1267	●12670
		●Ignore glow on 1-2-6. Grid cap goes to top of tube						
22KM6		4	17	21	2	3	1267	670
		Throw levers 1-2 to open position. Cap goes to top of tube						
23JS6 (Key at 3)		4	17	20	2	5	16	●1680
		●Ignore glow on 1. Cap goes to top of tube						
23Z9 (Key at 5)	Tri-1	4	17	27	2	0	-	78
	Tri-2	4	17	24	2	-	-	23
(Key at 7)	Pen	6	17	21	2	1	-	230
24JE6		4	18	23	2	3	1267	●126780
		●Ignore glow on 12. Cap goes to top of tube						
25CG3 (Key at 0)		1	18	16	3	7	-	4
25DT5		4	18	28	2	7	36	●1369
		●Ignore glow on 3						
26AQ8	Tri-1	4	18	22	2	8	-	67
"	Tri-2	4	18	22	2	3	-	12
26JG6		4	18	17	3	3	17	279
		Lever 1 must be thrown to open position						
27GB5*		4	18	22	2	38	123678	160
		*Must use Magnoval adapter. Grid cap goes to top of tube Levers 2-7 must be thrown to open position						
27KG6*		4	18	20	2	9	123678	680
		*Must use Magnoval adapter. Grid cap goes to top of tube Levers 1-3 must be thrown to open position						
28GB5*		4	18	22	2	38	123678	160
		*Must use Magnoval adapter. Grid cap goes to top of tube Levers 2-7 must be thrown to open position						

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
28HA6		4	19	22	2	1	3689	●2687
		●Ignore glow on 6						
28HD5 (Key at 0)		1	19	20	2	4	59	357
		Lever 9 must be thrown to open position						
29GK6		4	19	23	2	1	39	278
29KQ6*		4	19	20	2	9	123678	●130
		●Ignore glow on 1. Cap goes to top of tube						
		*Must use Magnoval adapter						
		Levers 6-8 must be thrown to open position						
30AG11 (Key at 8)	Tri-1	9	19	22	2	4	-	23
	Di-1	9	19	24	2	6	-	5
(Key at 2)	Tri-2	3	19	22	2	6	-	78
	Di-2	3	19	24	2	4	-	5
30CW5		4	19	21	2	3	-	●126789
		●Ignore glow on 1-6-7. May show short on 1-2-6-7-8-9						
30HD5 (Key at 0)		1	19	20	2	4	59	357
		Lever 9 must be thrown to open position						
30HJ5 (Key at 0)		1	19	20	2	4	59	●3579
		●Ignore glow on 5-7						
30KD6 (Key at 4)		3	19	20	2	6	1278	●2790
		●Ignore glow on 2. Cap goes to top of tube						
31JS6 (Key at 3)		4	19	20	2	5	16	●1680
		●Ignore glow on 1. Grid cap goes to top of tube						
33GT7 (Key at 4)	Di	3	19	18	3	8	-	6
	Pen	3	19	24	2	0	-	129
33GY7 (Key at 3)	Di	2	19	18	3	7	-	5
(Key at 4)	Pen	3	19	23	2	0	-	12
33JV6 (Key at 5)		6	19	21	2	7	29	●23890
		●Ignore glow on 2-3-8						

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
34CD3 (Key at 0)		1	19	20	2	7	-	4
34CE3 (Key at 0)		1	19	20	2	7	-	4
35C3		3	19	3	1	7	-	5
35DZ8	Tri	4	19	28	2	8	-	19
"	Pen	4	19	23	2	2	-	367
38HE7 (Key at 0)	Di	1	19	16	3	4	-	2
	*Caution:-Lever 5 must be thrown to open position before inserting tube							
(Key at 8)	Pen*	7	19	16	2	3	-	46
38HK7 (Key at 0)	Di	1	19	16	3	4	-	2
(Key at 8)	*Caution:-Throw lever #5 to open position before inserting tube							
"	Pen *	7	19	16	2	3	-	46
40KD6 (Key at 4)		3	19	20	2	6	1278	●2790
	●Ignore glow on 2. Cap goes to top of tube							
42KN6 (Key at 6)		2	19	20	5	8	4-9	●2490
	●Ignore glow on 4. Cap goes to top of tube							
50BM8	Tri	4	20	19	3	8	-	19
"	Pen	4	20	19	3	2	-	367
50HN5		4	20	22	2	3	12	●1279
	●Ignore glow on 1							
50JY6		2	20	20	2	8	14	450
	Throw lever #1 to open position							
58HE7 (Key at 0)	Di	1	20	16	3	4	-	2
	*Caution:-Lever 5 must be thrown to open position before inserting tube							
(Key at 8)	Pen*	7	20	16	2	3	-	46
60HL5		4	20	21	2	3	12	●1279
	●Ignore glow on 1							
GL-866A		1	4	31	2	-	-	0

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
5896	Di-1	3	9	6	1	7	-	5
"	Di-2	3	9	6	1	2	-	1
5933		1	9	18	3	4	5	023
6085	Tri-1	9	9	7	1	3	45	12
"	Tri-2	9	9	7	1	8	-	67
Fil Cont - also throw 4-5 together								
6094		3	9	19	3	4	1245679	124
Lever 6-7-9 must be thrown to open position								
6216A		4	9	23	2	38	1368	●1267
●Ignore glow on 1								
6217		4	9	24	9	2	-	1267
CK6397		5	2	7	1	-	17	368
6485		3	9	3	1	7	-	1256
CK6526		5	2	26	2	-	-	124
6686		4	9	24	2	3	16	2789
7119	Tri-1	8	9	23	2	6	45	79
"	Tri-2	8	9	23	2	3	-	12
7320		4	9	5	1	3	12	●1279
●Ignore glow on 1								
7408		2	9	8	1	8	-	345
7551		4	13	25	2	19	1389	●23867
●Ignore glow on 3								
7558		4	9	25	2	19	1389	●23867
●Ignore glow on 3								
7581		2	8	24	2	8	-	345
7586		4	9	17	3	3	5	12
7591		2	9	24	2	5	48	●4836
●Ignore glow on 4								
7687	Tri	4	9	25	2	8	-	19
"	Pen	4	9	23	2	7	-	236

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
7695		4	20	23	2	7	-	169
7728	Tri-1	9	9	4	1	8	45	67
"	Tri-2	9	9	4	1	3	-	12
7729	Tri-1	9	9	27	2	8	45	67
"	Tri-2	9	9	27	2	3	-	12
7730	Tri-1	9	9	8	1	8	45	67
"	Tri-2	9	9	8	1	3	-	12
7731	Tri	4	9	24	2	8	-	19
"	Pen	4	9	24	2	7	-	236
7733		6	9	22	2	1	3459	278
7788		4	9	19	2	13	1369	2679
7802	Tri-1	7	9	23	2	6	-	45
"	Tri-2	7	9	23	2	3	-	12
7868		4	9	23	2	3	1267	●12679
	●Ignore glow on 12							
7984								
(Key at 7)		6	13	24	2	239	23915	450
	Must show short on 2-3-9-1-5							
	Throw lever 1 to open position							
8056		4	9	16	3	3	-	12
8102	Tri	4	13	22	2	2	-	13
"	Pen	4	13	22	2	8	-	679
8106		4	13	18	3	269	23689	1378
	Must show short on 23689							
	Cathode short test - throw 2-6-9 together							
8113		3	9	22	2	27	27	156
	Must show short on 2-7							
	Cathode short test - throw 2-7 together							
8156								
(Key at 4)		3	13	26	2	60	67890	129
	Levers 7-8 must be thrown to open position							
8203		4	9	17	3	3	5	12

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
8233*		4	9	20	2	79	2679	138
	*Must use Magnoval adapter							
8278*		4	9	21	2	26	123678	●13789
	●Ignore glow on 137							
	*Must use Magnoval adapter							
8298		2	9	22	2	146	146	350
8417		2	9	21	2	8	-	345
8441		4	9	18	3	3	-	12
8532		3	9	4	1	2	156	●1567
	●Ignore glow on 1-5							

FOREIGN

DAF-92	Pen	1	2	34	2	-	-	236
"	Di	1	2	29	3	-	-	4
DL-93		5	2	30	2	-	1267	●2634
	●Ignore glow on 2							
DL-95		5	2	29	2	-	1267	●2634
	●Ignore glow on 2							
DL-98		26	2	29	2	-	45	137
DY-87		258	2	21	4	-	1469	0
E-55L*		4	9	20	2	79	2679	138
	*Must use Magnoval adapter							
E-81L		4	9	24	2	3	16	2789
E-182CC	Tri-1	8	9	23	2	6	45	79
"	Tri-2	8	9	23	2	3	-	12
EAM-86	Tri	4	9	21	2	9	-	18
"	Eye	4	9	0	4	3	-	67
	See instructions for eye test							
EB-91	Di-1	3	9	18	3	5	-	2
"	Di-2	3	9	18	3	1	-	7
EBC-81	Tri	4	9	7	1	3	79	12
"	Di-1	4	9	29	3	-	-	8
	Di-2	4	9	26	3	-	-	6

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
EC-80		1	9	3	1	5	2378	●2378
	●Ignore glow on 2-7							
EC-81		4	9	23	2	3	-	18
EC-88		4	9	21	2	2	13679	18
	Levers 3-6-7-9 must be thrown to open position							
EC-95		3	9	22	2	17	17	256
EC-97		3	9	22	2	17	17	25
EC-900		3	9	21	2	27	27	15
ECC-34	Tri-1	7	8	7	1	6	-	45
"	Tri-2	7	8	7	1	3	-	12
ECC-91	Tri-1	3	9	24	2	7	-	25
"	Tri-2	3	9	24	2	-	-	16
ECC-189	Tri-1	4	9	22	2	8	-	67
"	Tri-2	4	9	22	2	3	-	12
ECC-801S	Tri-1	9	9	4	1	8	45	67
"	Tri-2	9	9	4	1	3	-	12
ECC-802S	Tri-1	9	9	8	1	3	45	12
"	Tri-2	9	9	8	1	8	-	67
ECC-808	Tri-1	4	9	24	2	8	-	79
"	Tri-2	4	9	24	2	2	-	13
ECF-83	Tri	4	9	19	3	1	-	23
"	Pen	4	9	19	3	8	-	679
ECF-200	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
ECF-201	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
ECF-801	Tri	4	9	21	2	13	13	89
"	Pen	4	9	20	2	-	-	267
ECF-802	Tri	4	9	22	2	8	-	19
"	Pen	4	9	21	2	7	-	236
ECF-805	Tri	4	9	21	2	68	68	19
"	Pen	4	9	19	2	-	-	237

Cathode short test - throw 6-8 together

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
ECH-35	Tri	2	9	26	2	8	-	56
"	Hex	2	9	26	2	-	-	3459
ECH-84	Tri	4	9	23	2	3	-	89
"	Hep	4	9	21	2	-	-	267
ECH-200	Tri	5	9	20	2	9	-	80
"	Hep	5	9	21	2	1	-	347
ECL-85	Tri	4	9	24	2	3	-	12
"	Pen	4	9	22	2	8	-	679
EF-22		1	9	4	1	7	-	2346
EF-39		2	9	5	1	8	-	3450
EF-92		3	9	6	1	2	-	1567
EF-95		3	9	25	2	27	27	156
EF-806S		4	9	26	2	3	27	169
EFL-200	Pen-1	5	9	20	2	7	-	890
"	Pen-2	5	9	20	2	2	-	134
EH-900S	Tot	3	9	5	1	2	-	1567
"	Tri	3	9	5	1	-	-	16
EK-11		6	13	24	3	2	19	10
EL-13		2	9	23	2	8	-	567
EL-32		2	9	6	1	8	-	340
EL-33		2	9	24	2	8	-	345
EL-36		2	9	23	2	38	1348	459
May show short on 1-3-4-8								
EL-82		2	9	24	2	3	-	279
EL-83		4	9	22	2	3	-	127
EL-85		4	9	6	1	3	1268	●126879
●Ignore glow on 1-6								
EL-91		3	9	25	2	2	-	157
EL-500*		4	9	22	2	38	123678	160

*Must use Magnoval adapter. Grid cap goes to top of tube
Lever 2-7 must be thrown to open position

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
EL-503*		4	9	21	2	26	123678	●13789
		●Ignore glow on 137						
		*Must use Magnoval adapter						
EL-821		4	9	3	1	3	-	278
ELL-80	Pen-1	4	9	22	2	7	-	123
"	Pen-2	4	9	22	2	-	-	689
EM-34		2	9	0	4	8	-	365
		See instructions for eye test						
EM-87	Tri	4	9	29	2	3	268	19
"	Eye	4	9	0	4	-	-	●67
		●Levers 2-8 must be thrown to open position						
		See instructions for eye test						
EY-81		4	9	22	2	0	*	2-9
		*May show short on all pins						
EY-86		258	9	21	4	-	1469	0
EY-87		258	9	21	4	-	1469	0
GY-501*		248	4	20	4	-	14589	0
		*Must use Magnoval adapter. Cap goes to top of tube						
HBC-91	Tri	3	13	27	2	2	-	17
"	Di-1	3	13	27	3	-	-	5
"	Di-2	3	13	27	3	-	-	6
HCC-85	Tri-1	5	15	22	2	8	-	67
"	Tri-2	5	15	22	2	3	-	12
HCH-81	Tri	4	13	25	2	3	-	89
"	Pen	4	13	23	2	3	-	126
LC-900		3	4	21	2	27	27	15
		Lever 2 must be thrown to open position						
LCF-200	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
LCF-201	Tri	5	9	22	2	1	-	90
"	Pen	5	9	20	2	2	-	378
LCF-801	Tri	4	9	21	2	13	13	89
"	Pen	4	9	20	2	-	-	267

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
LCF-802	Tri	4	9	22	2	8	-	19
"	Pen	4	9	21	2	7	-	236
LCH-200	Tri	5	8	20	2	9	-	80
"	Hep	5	8	21	2	1	-	347
LCL-84	Tri	4	12	23	2	3	-	12
"	Pen	4	12	23	2	7	-	689
LF-183		4	6	22	2	13	13	2789
LF-184		4	6	21	2	13	13	2789
LFL-200	Pen-1	5	12	20	2	7	-	890
"	Pen-2	5	12	20	2	2	-	134
LL-86		4	12	21	2	3	*	●126789
	●Ignore glow on 1-6-7.*May show short on 1-2-6-7-8-9							
LL-521*		4	17	20	2	9	123678	●130
	●Ignore glow on 1. Cap goes to top of tube							
	*Must use Magnoval adapter							
	Lever 6-8 must be thrown to open position							
LY-88		4	17	24	3	0	*	9
	*Must show short on 1-2-3-6-7-8							
	Lever 1-2-3-6-7-8 must be thrown to open position							
PC-88		4	6	20	2	2	13679	●136798
	●Ignore glow on 1-3-6-7							
PC-95		3	5	20	2	17	17	25
PC-900		3	6	21	2	27	27	15
	Lever 2 must be thrown to open position							
PCC-88	Tri-1	4	9	23	2	8	-	67
"	Tri-2	4	9	23	2	3	-	12
PCC-189	Tri-1	4	10	22	2	8	-	67
"	Tri-2	4	10	22	2	3	-	12
PCF-86	Tri	4	10	23	2	3	13	67
"	Pen	4	10	22	2	1	-	289
PCF-200	Tri	5	10	22	2	1	-	90
"	Pen	5	10	20	2	2	-	378

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
PCF-201	Tri	5	10	22	2	1	-	90
"	Pen	5	10	20	2	2	-	378
PCF-801	Tri	4	11	21	2	13	13	89
"	Pen	4	11	20	2	-	-	267
PCF-802	Tri	4	12	22	2	8	-	19
"	Pen	4	12	21	2	7	-	236
PCF-805	Tri	4	10	21	2	68	68	19
"	Pen	4	10	19	2	-	-	237
Cathode short test - throw 6-8 together								
PCH-200	Tri	5	11	20	2	9	-	80
"	Hep	5	11	21	2	1	-	347
PCL-81	Tri	4	13	26	2	38	38	17
"	Pen	4	13	23	2	-	-	269
PCL-82	Tri	4	15	24	2	8	-	19
"	Pen	4	15	21	2	2	-	367
PCL-84	Tri	4	14	23	2	3	-	12
"	Pen	4	14	24	2	7	-	689
PCL-85	Tri	4	16	24	2	3	-	12
"	Pen	4	16	22	2	8	-	679
PCL-86	Tri	4	14	26	2	2	-	19
"	Pen	4	14	23	2	7	-	368
PD-500*		4	10	32	2	1	123679	80
*Must use Magnoval adapter. Cap goes to top of tube								
PF-86		4	7	23	2	3	27	169
PFL-200	Pen-1	5	15	20	2	7	-	890
"	Pen-2	5	15	20	2	2	-	134
PL-81		4	7	21	2	3	16789	280
Lever 7 must be thrown to open position								
PL-82		4	5	21	2	3	-	279
PL-83		4	14	25	2	3	-	1267
PL-84		4	14	18	3	3	126789	279
Levers 1-6-8 must be thrown to open position								
PL-500*		4	18	22	2	38	123678	160
*Must use Magnoval adapter. Grid cap goes to top of tube Levers 2-7 must be thrown to open position								

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
PL-521*		4	19	20	2	9	123678	●130
		●Ignore glow on 1. Cap goes to top of tube						
		*Must use Magnoval adapter						
		Levers 6-8 must be thrown to open position						
PM-84	Tri	4	6	34	2	3	268	19
"	Eye*	4	6	0	4	-	-	67
		*Levers 2-8 must be thrown to open position						
		See instructions for eye test						
UAA-91	Di-1	3	16	18	3	1	-	7
"	Di-2	3	16	18	3	5	-	2
UCF-12	Tri	2	17	19	3	8	-	45
"	Pen	2	17	19	3	-	-	167
UCL-82	Tri	4	20	19	3	8	-	19
"	Pen	4	20	19	3	2	-	367
UL-84		4	19	23	2	3	12689	●126897
		●Ignore glow on 1-6-8						
XC-95		3	4	22	2	17	17	256
XC-900		3	3	21	2	27	27	15
		Lever 2 must be thrown to open position						
XCC-189	Tri-1	4	6	22	2	8	-	67
"	Tri-2	4	6	22	2	3	-	12
XCF-80	Tri	4	6	23	2	8	-	19
"	Pen	4	6	22	2	7	-	236
XCF-801	Tri	4	6	21	2	13	13	89
"	Pen	4	6	20	2	-	-	267
XCL-82	Tri	4	10	25	2	8	-	19
"	Pen	4	10	23	2	2	-	367
XCL-84	Tri	4	11	23	2	3	-	12
"	Pen	4	11	23	2	7	-	689
XCL-85	Tri	4	12	24	2	3	-	12
"	Pen	4	12	22	2	8	-	679
XL-36		2	13	23	2	38	1348	459
		Must show short on 1-3-4-8						
		Cathode short test - throw 3-8 together						

TUBE	SECT	A	B	C	D	CATH	CONT	TEST
XL-84		4	11	5	1	3	12	●1279
		●Ignore glow on 1						
XL-86		4	11	21	2	3	*	●126789
		●Ignore glow on 1-6-7. *May show short on 1-2-6-7-8-9						
XL-500*		4	13	22	2	38	123678	160
		*Must use Magnoval adapter. Grid cap goes to top of tube Levers 2-7 must be thrown to open position						
YC-97		3	5	22	2	17	17	25
YC-98		246	7	0	0	-	-	19