

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
Information from Coletronics Service Inc MRC 2-25-70, 6-1-70, 4-1-74; 7-15-74; 2-15-75; 2-1-78; G-140 Adapter (761);												
1AD2		4	1	0	28	2	*	---	12	---	1 - 3	*Key at 2. Throw levers 4 - 5 - 7 - 8 - 9 to "W"; May show short on 4 - 5 - 7 - 8 - 9
1AU2		7	4	0	23	2	1	---	9	---	4 - 5	Must show short on 1 - 9
1AY2		7	1	0	15	2	---	---	11	---	*	Depress button 1 only for Fil Cont. Insert leads into pins 1 & 6 of 9-pin socket.
1BC2		7	5	0	18	2	2 - 8	---	11	---	4 - 5	Must show short on 1 - 6 - 9
1BG2		5	1	0	30	2	---	---	11	2	1 - 2	Insert bottom leads into pins 1 & 2 of 9-pin socket. Cap goes to top lead.
1BK2	*	7	2	0	17	2	5 - 8	---	11	---	#	*CAUTION - Levers 5 - 8 must be thrown in position "W" before inserting tube and remain in position "W" throughout all tests, including short tests; # 1 - 2 - 4 - 6 - 9; May show short on 3 - 7
1BQ2	*											* CAUTION - Levers 5 - 8 must be thrown to position "W" before inserting tube and remain so during all tests
1BQ2		7	2	0	17	2	5 - 8	---	11	---	*	Fil Cont - Must show short on 1 - 2 - 4 - 6 - 9
1BX2	*	7	2	0	16	2	5 - 8	---	11	---	#	*CAUTION: Levers 5 - 8 must be thrown to position "W" before inserting tube and remain in position "W" throughout all tests, including short tests; #1 - 2 - 4 - 6 - 9; May show short on 2 - 7
1BY2		4	1	0	18	2	*	---	11	---	1 - 3	Key at 2; *2 - 4 - 5 - 6 - 7 - 8; Good tube reads above 40; No short test
1C2		1	7	50	31	2	---	6	2	3 - 4	1 - 7	
1C2		1	7	36	10	2	---	5	3	4	1 - 7	
1D13		3	1	0	27	2	2 - 5	---	6	---	1 - 7	Must show short on 2 - 5 - 6
1DG3		4	8	0	26	2	*	---	11	---	#	*2 - 4 - 5 - 6; #3 - 4 - 5 - 6 - 8; No short test
1DK1		5	1	0	30	1	---	---	11	---	1 - 2	Insert two base leads into pins 1 and 2 of 9 pin miniature socket. Cap goes to top lead
1DK29		5	1	0	30	2	---	---	11	---	1 - 2	Insert 2 base leads into pins 1 & 2 of 9-pin socket. Cap goes to top lead.
1F1		5	7	6	37	2	---	3	2	6	1 - 5 - 7	
1F2		1	7	27	29	2	5	3	2	6	1 - 5 - 7	
1F3		1	7	32	22	2	5	3	2	6	1 - 5 - 7	
1FD1	Pentode	4	7	17	41	2	---	4	5	6	1 - 7	
1FD1	Diode	3	7	0	28	2	---	---	3	---	1 - 7	
1FD9	Pentode	1	1	26	35	2	---	4	5	6	1 - 7	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
		LEVER										
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
1FD9	Diode	3	1	0	29	2	---	---	3	---	1 - 7	
1H35		5	7	27	40	2	---	6	2	3 - 4	1 - 7	
1H35		5	7	13	19	2	---	---	3	4	1 - 7	
1K3		4	2	0	20	2	8	---	11	---	2 - 7	May show short on 1 - 3 - 5; Black grid cap goes to top of tube
1P1		1	5	30	10	2	---	3	2	6	1 - 5 - 7	
1P10		1	5	27	14	2	6	4	2	3	1 - 5 - 7	
1P11		1	5	30	10	2	---	3	2	6	1 - 5 - 7	
1RK23	*	7	2	0	14	2	5 - 8	---	11	---	#	*CAUTION: Levers 5 - 8 must be thrown to position "W" before inserting tube and remain in position "W" throughout all tests, including short tests; #1 - 2 - 4 - 6 - 9; May show short on 3 - 7
1RK41	*	7	2	0	17	2	5 - 8	---	11	---	#	*CAUTION: Levers 5 - 8 must be thrown to position "W" before inserting tube and remain in position "W" throughout all tests, including short tests; #1 - 2 - 4 - 6 - 9; May show short on 2 - 7
1S5	Pent	1	7	8	39	4	---	4	5	6	1 - 7	
1S5	Diode	3	7	0	30	2	---	---	3	---	1 - 7	
2AH2	*											* CAUTION - Lever 5 must be thrown to position "W" before inserting tube and must remain in "W" position throughout all tests including short tests.
2AH2		6	1	0	17	4	5	---	12	---	1 - 3	Key at 2. Red grid cap goes to top of tube. May show short on 1 - 3 - 4 - 7 - 8 - 9
2AS2		7	4	0	15	4	---	---	11	---	4 - 6	Key at 5. Cap goes to top of tube. May show short on 1 - 7.
2AV2		7	4	0	24	3	*	---	9	---	4 - 5	* Levers 1 - 2 - 3 - 6 - 7 - 8 must be thrown to "W". May show short on 1 - 2 - 3 - 6 - 7 - 8 - 9
2AZ2	*											* CAUTION - Levers 4 - 5 - 6 - 8 - 9 must be thrown to position "W" before inserting tube and must remain in "W" position throughout all tests.
2AZ2		7	1	0	13	3	*	---	11	---	1 - 2	
2BA2		7	4	0	10	3	1	---	9	---	4 - 5	
2BJ2	*											* CAUTION - Levers 2 - 8 must be thrown to position "W" before inserting tube and must remain in position "W" throughout all tests including short tests.

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
2BJ2		7	5	0	14	3	2 - 8	---	11	---	4 - 5	Must show short on 1 - 4 - 5 - 6 - 9
2BU2		7	4	0	13	4	1 - 7	---	11	---	4	Key at 5; Must show short on 1 - 6 - 7
2C50	Triode-1	1	7	21	9	10	---	---	2	1	7 - 8	
2C50	Triode-2	1	7	21	9	10	---	---	5	4	7 - 8	
2CN3		7	2	0	11	3	---	---	11	---	2 - 7	May show short on 3 - 5
2CW4	*	5	4	9	10	3	---	---	1	2	4 - 5	*Use G-140 Adapter; Connect red grid cap to G-140 plug
2DL4		5	4	8	9	3	*	---	8	9	4 - 5	*1 - 3 - 6 - 7; Must show short on 1 - 3 - 6 - 7 - 9
2DS4		5	4	12	10	2	---	---	1	2	4 - 5	
2DV4		5	3	6	8	3	1 - 4	---	2	6	3 - 5	Must show short on 1 - 2 - 4 - 6
2DZ4		2	3	19	10	4	1 - 2	---	7	6	3 - 4	Must show short on 1 - 2 - 6 - 7
2EG4		5	4	5	16	2	---	---	1	2	4 - 5	
2GU5		4	3	5	10	4	2	6	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
2GW5		5	3	6	8	4	2	---	1	6	3 - 4	Must show short on 2 - 6
2HA5		1	3	13	10	2	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
2HK5		1	3	14	10	3	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
2HM5		5	3	7	10	4	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
2HQ5		1	3	10	8	4	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
2HR8		4	4	7	20	4	---	1	6	9	4 - 5	May show short on 2 - 7
3AF3		3	4	0	15	6	2	---	9	---	4 - 5	May show short on 2 - 9
3AJ8	Amp	1	4	14	31	5	---	1	6	2	4 - 5	
3AJ8	Osc	1	4	25	10	5	---	---	1	2	4 - 5	
3AJ8	Triode	1	4	25	13	5	---	---	8	9	4 - 5	
3AT2		4	5	0	6	4	1	---	12	---	5 - 7	Key at 6. Must show short on 2 - 8; Red grid cap goes to top of tube
3AW2		7	5	0	11	5	---	---	11	-	4 - 6	Key at 5. Cap goes to top of tube. May show short on 1 - 7.
3AW3		4	2	0	7	5	---	---	11	---	*	*Fil Cont - Depress 2, then 3 - 7 - 8 together; May show short on 3 - 7 - 8
3BH2	*											* CAUTION - Levers 2 - 8 must be thrown to position "W" before inserting tube and must remain in position "W" throughout all tests including short tests.
3BH2	*	7	4	0	17	4	2 - 8	---	11	---	4 - 5	* Must use magnoval adapter; Must show short on 1 - 9

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TUBE	SECTION	LEVER									FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z		
3BL2		7	4	0	15	5	---	---	11	---	4 - 6	Key at 5. Cap goes to top of tube. May show short on 1 - 7.
3BM2		7	4	0	8	5	---	---	11	---	4 - 6	Key at 5. Must show short on 1 - 7.
3BN2		4	5	0	6	4	1	---	12	---	5 - 7	Key at 6. Must show short on 2 - 8; Red cap goes to top of tube
3BS2		7	4	0	10	5	---	---	11	---	4 - 6	Key at 5. May show short on 1 - 7; Cap goes to top of tube
3BT2		7	4	0	14	5	1 - 7	---	11	---	4	Key at 5. Must show short on 1 - 6 - 7
3BW2		7	4	0	14	5	1 - 7	---	11	---	4	Key at 5; No short test
3CA3		7	2	0	19	5	---	---	11	2	2 - 7	
3CN3		7	2	0	11	5	---	---	11	---	2 - 7	May show short on 3 - 5
3CU3		7	2	0	10	5	---	---	11	2	2 - 7 - 8	
3CV3	*	7	2	0	17	5	5 - 8	---	11	---	2 - 7	*CAUTION; Levers 5 - 8 must be thrown to position "W" before inserting tube and remain in position "W" throughout all tests, including short tests; May show short on 1 - 2 - 3 - 7
3CX3		7	3	0	13	5	---	---	11	---	3 - 4 - 6	
3CY3		7	2	0	15	5	---	---	11	---	*	* Fil Cont - Must show short on 1 - 2 - 3 - 5 - 7
3CZ3		4	2	0	7	5	---	---	11	---	*	* Fil Cont - Depress 2, then 2 - 7 - 8 together; May show short on 2 - 7 - 8
3DA3		1	3	0	23	5	*	---	11	---	#	*3 - 4 - 5 - 6 - 8; #1 - 2 - 4 - 5 - 6 - 7
3DB3		7	2	0	23	5	---	---	11	---	7	Must show short on 1 - 2 - 3 - 5 - 7
3DC3		7	2	0	12	5	---	---	11	---	*	* Fil Cont - Must show short on 1 - 2 - 3 - 5 - 7
3DF3		1	8	0	25	5	*	---	11	---	#	*2 - 4 - 5 - 6; #2 - 3 - 4 - 6 - 8; No short test
3DH3		1	3	0	25	5	5	---	11	---	*	*3 - 4 - 6 - 8
3DJ3		7	2	0	21	5	---	---	11	---	#	# Fil Cont - Must show short on 1 - 2 - 3 - 5 - 7
3DR3		4	3	0	6	5	5	---	11	---	*	*2 - 3 - 6 - 8
3DS3		3	3	0	35	5	5	*	11	---	2 - 6 - 8	*1 - 4 - 7; Good tube reads above 40
3DZ4		2	3	19	10	5	1 - 2	---	7	6	3 - 4	Must show short on 1 - 2 - 6 - 7
3DZ11		7	4	15	23	6	---	7	6	2	4 - 5	
3GK6		1	4	21	10	5	---	8	7	2	4 - 5	Must show short on 3 - 9
3GU5		4	3	5	10	5	2	6	5	1	3 - 4	Must show short on 2 - 7; Cathode short test
3GW5		5	3	7	8	5	2	---	1	6	3 - 4	Depress 2 - 7 together
3HA5		1	3	13	10	4	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test
												Depress 2 - 7 together

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
3HE7	Diode	3	1	0	15	5	---	---	2	---	1 - 11	CAUTION - Throw lever No. 4 to "W" before inserting tube
3HE7	Pent	5	6	0	5	5	4	5	11	3	6 - 8	
3HF5		1	3	0	4	5	2	7	12	9	3 - 5	Key at 4. Use red grid cap. Must show short on 1 - 2 - 7 - 8; Cathode short test - Depress 2 - 7 together
3HK5		1	3	14	10	4	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
3HM5		2	3	25	14	4	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
3HM6		5	4	0	16	5	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
3HQ5		1	3	10	8	5	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
3HS8	Pent-1	4	4	6	30	5	---	2	8	7	4 - 5	
3HS8	Pent-2	4	4	6	30	5	---	2	3	7	4 - 5	
3HT6		4	4	4	10	5	3	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
3JC6		1	4	5	24	5	3	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
3JD6		1	4	5	20	5	3	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
3KF8	Pent-1	4	4	5	30	5	---	2	8	7	4 - 5	
3KF8	Pent-2	4	4	5	30	5	---	2	3	7	4 - 5	
3KT6		5	4	0	20	5	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
3MR24		1	3	15	17	5	---	---	6	5	3 - 4	
3MP26		1	3	10	10	5	---	6	5	1	3 - 4	
3MV7		1	3	8	19	5	---	---	6	5	3 - 4	
4AB8	Triode	1	4	14	18	6	---	---	1	2	4 - 5	
4AB8	Pent	1	4	14	17	6	---	8	6	9	4 - 5	
4AF4		2	3	24	11	6	1 - 2	---	7	6	3 - 4	
4BL8	Triode	1	4	14	10	6	---	---	1	9	4 - 5	
4BL8	Pent	1	4	23	16	6	---	3	6	2	4 - 5	
4DL4		5	4	6	11	5	1 - 3 - 6	---	8	7 - 9	4 - 5	Must show short on 1 - 3 - 6 - 7 - 9
4ER5		5	3	5	15	5	---	---	5	2	3 - 4	Must show short on 1 - 7
4GJ7	Triode	5	4	7	8	5	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
4GJ7	Pent	1	4	0	38	5	---	7	6	2	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
4GK5		1	3	11	10	5z	---	---	5	2	3 - 4	Set switch "E" to #6 if there is no 5z position; Must show short on 1 - 7; Cathode short test Depress 1 - 7 together
4GS7	Triode	5	4	7	10	6	---	---	2	1	4 - 5	
4GS7	Pentode	5	4	0	21	6	---	7	6	9	4 - 5	
4GW5		5	3	7	8	5z	2	---	1	6	3 - 4	Set switch "E" to #6 if there is no 5z position; Must show short on 2 - 6
4GX6		1	3	10	36	6	---	6	5	1	3 - 4	
4GX7	Triode	5	4	9	8	5z	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together; Set switch "E" to #6 if there is no 5z position
4GX7	Pent	4	4	5	7	5z	---	7	6	2	4 - 5	
4GZ5		1	3	20	10	5z	2	6	7	5	3 - 4	Set switch "E" to #6 if there is no 5z position; Must show short on 2 - 5
4HA5		1	3	13	10	5	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
4HA7	Triode-1	1	2	35	10	5z	---	---	5	1	2 - 4	Key at 3; Set switch "E" to #6 if there is no 5z position
4HA7	Triode-2	2	4	36	10	5z	---	---	2	1	4 - 6	
4HC7	Triode-1	2	1	26	14	5z	---	---	7	9	1 - 12	Key at 0; Set switch "E" to #6 if there is no 5z position; Use red grid cap
4HC7	Triode-2	2	7	34	10	5z	---	---	8	4	5 - 7	
4HG8	Triode	1	4	5	10	6	---	---	7	6	4 - 5	May show short on 1 - 3; Cathode short test - Depress 1 - 3 together
4HG8	Pentode	1	4	7	25	6	---	9	8	2	4 - 5	
4HK5		1	3	14	10	5z	2	---	5	1	3 - 4	Set switch "E" to #6 if there is no 5z position; Cathode short test - Depress 2 - 7 together; Must show short on 2 - 7
4HM5		2	3	25	14	5	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
4HM6		5	4	0	16	5z	---	8	7	2	4 - 5	Set switch "E" to #6 if there is no 5z position; Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
4HQ5		1	3	10	8	6	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
4HR8		4	4	7	20	5z	---	1	6	9	4 - 5	Set switch "E" to #6 if there is no 5z position; Must show short on 2 - 7
4HS8	Pent-1	4	4	6	30	5z	---	2	8	7	4 - 5	Set switch "E" to 6 if there is no 5z position
4HS8	Pent-2	4	4	6	30	5z	---	2	3	7	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
TUBE	SECTION	LEVER									FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z		
4HT6		4	4	4	10	5z	3	8	7	2	4 - 5	Set switch "E" to #6 if there is no 5z position; Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
4JC6		1	4	5	24	6	3	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
4JD6		1	4	5	20	6	3	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
4JH6		4	3	7	10	6	---	6	5	1	3 - 4	
4JK6		1	3	9	16	5	---	6	5	1	3 - 4	
4JL6		1	3	2	17	5	---	6	5	1	3 - 4	
4JW8	Triode	5	4	10	15	6	---	---	?	9	4 - 5	
4JW8	Pentode	4	4	7	11	6	---	3	6	2	4 - 5	
4KE8	Triode	2	4	32	10	6	---	---	1	9	4 - 5	
4KE8	Pent	4	4	5	10	6	---	3	6	2	4 - 5	
4KF8	Pent-1	4	4	5	30	6	---	2	8	7	4 - 5	
4KF8	Pent-2	4	4	5	30	6	---	2	3	7	4 - 5	
4KN8	Triode-1	1	4	5	9	6	---	---	6	7	4 - 5	
4KN8	Triode-2	1	4	5	9	6	---	---	1	2	4 - 5	
4KT6		5	4	0	20	6	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
4LJ8	Triode	5	4	8	12	6	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test Depress 3 - 8 together
4LJ8	Pentode	5	4	0	26	6	---	7	6	9	4 - 5	
4LU6		3	3	5	29	5	---	6	5	1	4	
4MK8	Pent-1	4	4	10	26	6	---	2	8	7	4 - 5	
4MK8	Pent-2	4	4	10	26	6	---	2	3	7	4 - 5	
4MP12		1	3	8	18	6	---	6	5	1	3 - 4	
4MP26		1	3	10	10	5	---	6	5	1	3 - 4	
4RHH2	Triode	1	4	15	11	6	---	---	6	7	4 - 5	
4RHH2	Triode	1	4	15	11	6	---	---	1	2	4 - 5	
4RHH8	Triode-1	1	4	5	9	6	---	---	6	7	4 - 5	
4RHH8	Triode-2	1	4	5	9	6	---	---	1	2	4 - 5	
4RHH15	Triode-2	3	4	8	23	5	---	---	1	2	5	
4RHH15	Triode-1	3	4	8	23	5	---	---	6	7	5	
5AF4		2	3	24	11	6	1 - 2	---	7	6	3 - 4	Must show short on 1 - 2 - 6 - 7
5AF11	Pentode	4	8	2	10	6	---	4	9	5	6 - 8	Key at 7; Use red grid cap
5AF11	Triode-1	4	1	2	10	6	---	---	6	5	1 - 3	Key at 2
5AF11	Triode-2	4	1	2	10	6	---	---	8	6	1 - 12	Key at 0
5AQ4	Diode-1	2	2	0	2	6	---	---	4	---	2 - 8	
5AQ4	Diode-2	2	2	0	2	6	---	---	6	---	2 - 8	
5B8	Pentode	4	4	25	28	6	---	1	9	6	4 - 5	

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		LEVER										
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
5B8	Triode	1	4	10	12	6	---	---	3	2	4 - 5	
5BC3	Diode-1	3	1	0	19	6	2 - 8	---	9	---	1 - 2 - 3	Must show short on 5 - 6 - 8 - 9
5BC3	Diode-2	3	1	0	19	6	2 - 5	---	6	---	1 - 2 - 3	
5CL8	Triode	1	4	22	10	6	---	---	2	1	4 - 5	
5CL8	Tetrode	4	4	9	10	6	---	7	6	9	4 - 5	
5CR8	Triode	1	4	10	12	6	---	---	1	9	4 - 5	
5CR8	Pentode	4	4	7	8	6	---	7	6	2	4 - 5	
5DG4	Plate-1	1	1	0	4	6	---	---	7	---	1 - 3	
5DG4	Plate-2	1	1	0	4	6	---	---	5	---	1 - 3	
5DJ4	*											* CAUTION: Lever #2 must be thrown to "W" position before inserting tube and must remain in "W" position throughout all tests, including short tests.
5DJ4	Plate-1	3	1	0	17	6	2	---	3 - 4	---	1 - 7 - 8	Must show short on 3 - 4 - 5 - 6
5DJ4	Plate-2	3	1	0	17	6	2	---	5 - 6	---	1 - 7 - 8	
5EW6		1	3	19	21	6	---	6	5	1	3 - 4	
5GJ7	Triode	5	4	7	8	6	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
5GJ7	Pentode	1	4	0	38	6	---	7	6	9	4 - 5	
5GS7	Triode	5	4	7	10	6	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test Depress 3 - 8 together
5GS7	Pentode	5	4	0	21	6	---	7	6	9	4 - 5	
5GX6		1	3	10	36	5	---	6	5	1	3 - 4	
5GX7	Triode	5	4	9	8	6	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
5GX7	Pentode	4	4	5	7	6	---	7	6	2	4 - 5	
5HA7	Triode-1	1	2	35	10	6	---	---	5	1	2 - 4	Key at 3
5HA7	Triode-2	2	4	36	10	6	---	---	2	1	2 - 4	Key at 5
5HB7	Triode	1	4	25	10	6	1	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
5HB7	Pentode	4	4	9	10	6	1	7	6	2	4 - 5	
5HC7	Triode-1	2	1	26	14	6	---	---	7	9	1 - 12	Key at 0; Use red grid cap
5HC7	Triode-2	2	7	34	10	6	---	---	8	4	5 - 7	Key at 6
5HG8	Triode	1	4	5	10	6	---	---	7	6	4 - 5	May show short on 1 - 3; Cathode short test - Depress 1 - 3 together
5HG8	Pentode	1	4	7	25	6	---	9	8	2	4 - 5	
5HZ6		4	3	15	15	6	---	6	5	1	3 - 4	
5JK6		1	3	9	16	6	---	6	5	1	3 - 4	
5JL6		1	3	2	17	6	---	6	5	1	3 - 4	
5JW8	Triode	5	4	10	15	6	---	---	1	9	4 - 5	
5JW8	Pentode	4	4	7	11	6	---	3	6	2	4 - 5	
5KD6	Triode	1	4	25	10	6	---	---	1	9	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
5KD6	Pentode	1	4	18	25	6	---	3	6	2	4 - 5	
5KE8	Triode	2	4	32	10	6	---	---	1	9	4 - 5	
5KE8	Pentode	4	4	5	10	6	---	3	6	2	4 - 5	
5KZ8	Triode	3	4	15	18	6	---	---	1	9	4 - 5	
5KZ8	Pentode	4	4	9	10	6	---	7	6	2	4 - 5	
5LJ8	Triode	5	4	8	12	6	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test
5LJ8	Pentode	5	4	0	26	6	---	7	6	9	4 - 5	Depress 3 - 8 together
5MB8	Triode	5	4	10	12	6	---	---	2	1	4 - 5	
5MB8	Pentode	4	4	5	7	6	---	7	6	9	4 - 5	
5MF8	Pentode	2	7	5	17	6	1	3	12	2	7 - 9	Key at 8; Must show short on 1 - 2
5MF8	Triode	2	4	8	30	6	---	---	7	2	7 - 9	Key at 5; Use red grid cap
5MHH3	Triode	1	3	16	13	6	---	---	2	5	3 - 4	
5MHH3	Triode	1	3	16	13	6	---	---	1	6	3 - 4	
5MK9		2	3	0	4	6	---	---	5	---	3 - 4	
5MQ8	Triode	1	4	17	15	6	---	---	1	9	5	
5MQ8	Pentode	1	4	17	21	6	---	3	6	2	5	
5P29		1	2	13	10	6	---	4	11	5	2 - 7	
5RDDH1	Diode-1	3	4	0	20	5	---	---	1	---	5	
5RDDH1	Diode-2	3	4	0	20	5	---	---	6	---	5	
5RDDH1	Triode	3	4	16	25	5	---	---	7	8	5	
5RHP1	Triode	1	4	14	10	7	---	---	1	9	4 - 5	
5RHP1	Pentode	1	4	23	16	7	---	3	6	2	4 - 5	
5RHR1	Triode	1	4	11	13	6	---	---	1	9	4 - 5	
5RHR1	Pentode	1	4	30	17	6	---	3	6	2	4 - 5	
5RK16	Plate-1	5	5	0	5	6	---	---	1	---	4 - 5	
5RK16	Plate-2	5	5	0	5	6	---	---	8	---	4 - 5	
5U9	Triode	5	5	9	10	6	---	---	9	11	5 - 6	
5U9	Pentode	5	5	0	21	6	---	8	7	3	5 - 6	
5V9	Triode	5	5	8	10	6	---	---	11	8	5 - 6	
5V9	Pentode	5	5	5	21	6	---	4	7	3	5 - 6	
5X9	Triode	5	5	10	14	6	---	---	9	11	5 - 6	
5X9	Pentode	2	5	0	39	6	---	8	7	3	5 - 6	
6AC9	Diode	3	1	0	15	1	7	---	---	2	1 - 11	Key at 0; May show short on 3
6AC9	Pentode	4	6	7	8	7	---	4	5	3	1 - 11	Key at 7
6AC10	Triode-1	1	4	14	19	7	---	---	2	1	4 - 6	Key at 5
6AC10	Triode-2	1	1	14	19	7	---	---	5	7	4 - 6	Key at 0
6AC10	Triode-3	1	2	14	19	7	---	---	5	1	4 - 6	Key at 3
6AD10	Pent-1	5	1	5	23	7	---	6	7	3	1 - 11	Key at 0
6AD10	Pent-2	5	7	5	7	7	---	3	4	1	1 - 11	Key at 6
6AF9	Pent-1	1	5	7	11	7	---	9	11	8	5 - 6	May show short on 2
6AF9	Pent-2	1	5	15	16	7	---	3	4	1	5 - 6	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER												
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
6AF11	Triode-1	2	1	19	21	7	---	---	8	6	1 - 12	Key at 0; Use red grid cap
6AF11	Triode-2	2	1	19	23	7	---	---	4	3	1 - 12	
6AF11	Pentode	2	6	5	21	7	---	2	7	3	4 - 6	Key at 5
6AG9		5	1	10	14	7	---	---	7	5	1 - 11	Key at 0
6AG9		1	5	8	13	7	---	3	8	4	1 - 11	Key at 6
6AG11	Triode-1	2	9	16	23	7	---	---	2	3	7 - 9	Key at 8
6AG11	Diode-1	3	9	0	16	7	---	---	5	---	7 - 9	Key at 8
6AG11	Triode-2	2	3	16	23	7	---	---	8	7	1 - 3	Key at 2
6AG11	Diode-2	3	3	0	16	7	---	---	5	---	1 - 3	Key at 2
6AG12		1	7	0	28	11	---	6	8	7	1 - 9	
6AH9	Triode	1	1	8	13	7	---	---	3	2	1 - 11	Key at 0; Will show short on 5 - 6
6AH9	Pentode	1	6	5	12	7	---	2	5	11	1 - 11	Key at 7
6AJ9	Triode	5	5	8	10	7	---	---	9	11	5 - 6	
6AJ9	Pentode	5	5	5	30	7	---	8	7	3	5 - 6	
6AK9	Pentode	2	7	31	14	7	---	---	6	5	9	Key at 8
6AK9	Triode-1	2	7	27	13	7	---	---	4	3	9	
6AK9	Triode-2	2	1	31	13	7	---	---	2	3	11	Key at 0
6AK10	Triode-2	2	1	5	35	7	---	---	5	7	11	Key at 0
6AK10	Triode-3	2	5	5	34	7	---	---	8	4	7	Key at 6
6AK10	Triode-1	2	7	5	32	7	---	---	5	4	9	Key at 8
6AL9	Triode	2	1	14	30	7	---	---	9	7	1 - 3	Key at 2
6AL9	Pentode	2	6	10	15	7	---	2	7	3	4 - 6	Key at 5
6AL11	Pent-1	4	1	17	10	7	---	9	8	5	1 - 3	Key at 2; Use red grid cap
6AL11	Pent-2	4	5	2	10	7	---	3	4	1	5 - 7	Key at 6
6AM5		1	3	31	10	7	---	7	5	1	3 - 4	
6AN6	Diode-1	3	1	0	19	7	---	---	2	---	1 - 7	
6AN6	Diode-2	3	1	0	19	7	---	---	3	---	1 - 7	
6AN6	Diode-3	3	1	0	19	7	---	---	4	---	1 - 7	
6AN6	Diode-4	3	1	0	19	7	---	---	5	---	1 - 7	
6AQ4		4	3	5	5	7	1	---	7	6	3 - 4	
6AQ8	Triode-1	1	4	25	11	7	---	---	6	7	4 - 5	
6AQ8	Triode-2	1	4	25	11	7	---	---	1	2	4 - 5	
6AR8	Pent-1	4	4	6	22	7	---	3	9	6	4 - 5	
6AR8	Pent-2	4	4	6	22	7	---	3	8	6	4 - 5	
6AR11	Pent-2	1	3	7	30	7	---	5	4	7	1 - 3	Key at 2
6AR11	Pent-1	1	9	7	30	7	---	4	3	5	7 - 9	Key at 8
6AS11	Triode-1	2	1	20	20	7	---	---	8	6	1 - 12	Key at 0; Use red grid cap
6AS11	Triode-2	2	1	20	20	7	---	---	4	3	1 - 12	
6AS11	Pentode	2	6	15	14	7	---	2	7	3	4 - 6	Key at 5
6AT7N	Triode-1	1	4	26	13	7	---	---	6	7	4 - 5	
6AT7N	Triode-2	1	4	26	13	7	---	---	1	2	4 - 5	
6AV11	Triode-1	1	6	15	15	7	---	---	2	1	4 - 6	Key at 5

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA													
TUBE	SECTION	LEVER										FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z			
6AV11	Triode-3	1	6	15	15	7	---	---	7	3		4 - 6	
6AV11	Triode-2	1	3	15	15	7	---	---	7	9		1 - 3	Key at 2
6AX3	*	1	4	0	4	7	2	---	9	---		4 - 6	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 5; Must show short on 2 - 9; Plate short test - Depress 2 - 9 together
6AX8	Triode	1	4	28	8	7	---	---	1	9		4 - 5	
6AX8	Pentode	1	4	14	29	7	---	3	6	2		4 - 5	
6AY3		1	4	0	4	7	2	---	7	---		4 - 5	Must show short on 2 - 7
6AY11	Diode-2	3	1	0	17	7	---	---	3	---		1 - 12	Key at 0; Use red grid cap
6AY11	Triode-2	4	1	13	9	7	---	---	6	5		1 - 12	
6AY11	Triode-1	4	1	13	9	7	---	---	7	8		1 - 12	
6AY11	Diode-1	3	3	0	17	7	---	---	1	---		3 - 5	Key at 4
6B10	Triode-1	1	1	28	10	7	---	---	6	5		1 - 11	Key at 0
6B10	Triode-2	1	1	28	10	7	---	---	4	3		1 - 11	
6B10	Diode-1	3	7	0	16	7	---	---	3	---		1 - 11	Key at 6
6B10	Diode-2	3	7	0	16	7	---	---	1	---		1 - 11	
6B32	Diode-1	3	3	0	17	7	---	---	7	---		3 - 4	
6B32	Diode-2	3	3	0	17	7	---	---	2	---		3 - 4	
6BA3		3	4	0	16	7	7	---	2	---		4 - 5	May show short on 2 - 7
6BA11	Pent-1	4	3	27	20	7	---	7	6	8		3 - 5	Key at 4; Use red grid cap
6BA11	Pent-2	4	1	21	26	7	---	3	6	4		1 - 12	Key at 0
6BA11	Triode	3	7	16	17	7	---	---	6	4		7 - 9	Key at 8
6BB14	*	5	4	0	5	7	2 - 7	6	11	1		4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cap goes to top of tube
6BD11	Triode-2	4	1	2	10	7	---	---	4	3		1 - 12	Key at 0; Use red grid cap
6BD11	Triode-1	4	1	2	10	7	---	---	8	6		1 - 12	
6BD11	Pentode	4	4	3	10	7	---	2	7	3		4 - 6	Key at 5
6BE3		3	1	0	16	7	12	---	6	---		1 - 3	Key at 2; Must show short on 6 - 12; Use red grid cap
6BE7		5	4	10	32	7	---	1	6	7		4 - 5	Must show short on 3 - 8
6BF8	Diode-1	3	4	0	16	7	---	---	9	---		4 - 5	
6BF8	Diode-2	3	4	0	16	7	---	---	8	---		4 - 5	
6BF8	Diode-3	3	4	0	16	7	---	---	7	---		4 - 5	
6BF8	Diode-4	3	4	0	16	7	---	---	3	---		4 - 5	
6BF8	Diode-5	3	4	0	16	7	---	---	2	---		4 - 5	
6BF8	Diode-6	3	4	0	16	7	---	---	1	---		4 - 5	
6BF11	Sect-1	4	1	23	15	7	---	6	7	3		1 - 12	Key at 0; Use red grid cap
6BF11	Sect-2	1	7	7	10	7	---	5	6	3		7 - 9	Key at 8
6BH11	Triode-1	5	1	10	11	7	---	---	3	4		1 - 11	Key at 0
6BH11	Triode-2	5	1	10	11	7	---	---	7	6		1 - 11	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6BH11	Pentode	4	6	8	8	7	---	3	4	2	1 - 11	Key at 7
6BJ3		3	1	0	16	7	---	---	4	---	1 - 12	Key at 0; Use red grid cap
6BK4		4	2	15	50	7	---	---	11	5	2 - 7	May show short on 1 - 3 - 4 - 6 - 8; OK past 1/3 scale
6BK8		5	4	0	28	7	---	1	6	9	4 - 5	May show short on 2 - 7
6BK11	Triode-1	1	6	20	23	7	---	---	2	1	4 - 6	Key at 5
6BK11	Triode-3	1	6	20	23	7	---	---	7	3	4 - 6	
6BK11	Triode-2	1	3	20	23	7	---	---	7	9	1 - 3	Key at 2
6BN11	Pent-1	5	6	0	28	7	---	3	5	1	6 - 8	Key at 7
6BN11	Pent-2	5	1	0	28	7	---	6	7	5	6 - 8	
6BR3		3	4	0	15	7	2	---	9	---	4 - 5	May show short on 2 - 9
6BR7	Triode	1	9	16	17	5	---	---	1	2	4 - 5 - 9	
6BR7	Diode-1	3	9	0	18	5	---	---	7	---	4 - 5 - 9	
6BR7	Diode-2	3	9	0	18	5	---	---	6	---	4 - 5 - 9	
6BS3		3	4	0	15	7	7	---	2	---	4 - 5	Must show short on 2 - 7
6BT6	Triode	1	3	12	29	7	---	---	7	1	3 - 4	
6BT6	Diode-1	3	3	0	25	7	---	---	5	---	3 - 4	
6BT6	Diode-2	3	3	0	25	7	---	---	6	---	3 - 4	
6BV11	Pent-1	4	6	9	15	7	---	3	4	1	6 - 8	Key at 7
6BV11	Pent-2	4	1	9	15	7	---	6	5	8	6 - 8	Key at 2
6BW3		3	1	0	15	7	---	---	4	---	1 - 11	Key at 0
6BW6		1	4	7	20	7	1	8	7	2	4 - 5	Must show short on 1 - 2
6BW11	Pent-1	4	6	0	17	7	---	3	2	5	6 - 8	Key at 7
6BW11	Pent-2	4	1	0	22	7	---	6	7	5	6 - 8	Key at 2
6BX4		2	3	0	3	7	---	---	1	---	3 - 4	
6BX4		2	3	0	3	7	---	---	6	---	3 - 4	
6BY8	Pentode	1	4	20	19	7	---	8	7	1	4 - 5	
6BY8	Diode	3	4	0	16	7	---	---	6	---	4 - 5	
6BY11	Pent-1	4	1	5	23	7	---	6	7	3	1 - 12	Key at 0; Use red grid cap
6BY11	Pent-2	1	7	5	7	7	---	5	6	3	7 - 9	Key at 8
6BZ3		3	1	0	15	7	---	---	4	---	1 - 11	Key at 0
6C9	Tetrode-1	4	4	5	7	7	---	8	9	7	4 - 5	
6C9	Tetrode-2	3	4	9	23	7	---	2	3	1	4 - 5	
6C10 *	Triode-2	1	1	32	10	7	---	---	5	7	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 0
6C10 *	Triode-1	1	6	32	10	7	---	---	2	1	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 5
6C10 *	Triode-3	1	6	32	10	7	---	---	7	3	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 5
6C16	Triode	1	4	14	10	7	---	---	1	9	4 - 5	
6C16	Pentode	1	4	23	16	7	---	3	6	2	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6C18	Triode	5	4	7	10	7	---	---	1	9	4 - 5	Must show short on 6 - 8; Cathode short test Depress 6 - 8 together
6C18	Pentode	5	4	0	22	7	---	2	3	7	4 - 5	
6CA11	Triode-1	3	1	8	26	7	---	---	2	3	11	Key at 0; May show short on 7
6CA11	Triode-2	3	1	8	24	7	---	---	4	6	11	
6CA11	Pentode	3	7	3	23	7	---	5	6	3	9	Key at 8
6CC31	Triode-1	1	3	16	13	7	---	---	2	5	3 - 4	
6CC31	Triode-2	1	3	16	13	7	---	---	1	6	3 - 4	
6CC42	Triode-1	1	1	27	10	7	---	---	6	7	1 - 9	
6CC42	Triode-2	1	1	27	10	7	---	---	4	3	1 - 9	
6CC43	Triode-1	1	4	25	11	7	---	---	6	7	4 - 5	
6CC43	Triode-2	1	4	25	11	7	---	---	1	2	4 - 5	
6CD3		5	1	0	5	7	---	---	4	---	1 - 11	Key at 0
6CE3		5	1	0	5	7	---	---	4	---	1 - 11	Key at 0
6CF8		1	4	17	30	7	---	1	6	9	4 - 5	May show short on 2 - 7
6CG3		5	1	0	5	7	---	---	4	---	1 - 11	Key at 0
6CG8	Triode	1	4	18	12	7	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test Depress 3 - 8 together
6CG8	Pentode	1	4	25	28	7	---	7	6	9	4 - 5	
6CH3		1	4	0	4	7	2	---	7	---	4 - 5	Must show short on 2 - 7
6CH40		1	4	14	31	7	---	1	6	2	4 - 5	
6CH40		1	4	25	10	7	---	---	1	2	4 - 5	
6CH40		1	4	25	13	7	---	---	8	9	4 - 5	
6CJ3		3	4	0	16	7	7	---	2	---	4 - 5	Must show short on 2 - 7
6CJ6		5	4	5	6	7	7	8	11	2	4 - 5	Must show short on 1 - 6 - 7 - 8 - 9
6CK3		1	4	0	4	7	2	---	7	---	4 - 5	Must show short on 2 - 7
6CK6		5	4	7	9	7	---	1	7	2	4 - 5	
6CL3		3	4	0	16	7	2	---	7	---	4 - 5	Must show short on 2 - 7
6CL8	Triode	1	4	22	10	7	---	---	2	1	4 - 5	
6CL8	Tetrode	4	4	9	10	7	---	7	6	9	4 - 5	
6CM3		3	4	0	17	7	2	---	7	---	4 - 5	Must show short on 2 - 7
6CM4		1	4	10	9	7	6 - 8 - 9	---	1	2	4 - 5	Must show short on 1 - 2 - 3 - 6 - 7 - 8 - 9; Cathode short test - Depress 3 - 7 together
6CM5		2	2	1	7	7	1	4	12	5	2 - 7	Must show short on 1 - 3 - 4 - 8; Use red grid cap; Cathode short test - Depress 3 - 8 together
6CR8	Triode	1	4	10	12	7	---	---	1	9	4 - 5	
6CR8	Pentode	4	4	7	8	7	---	7	6	2	4 - 5	
6CT3		3	4	0	17	7	2	---	6	---	4 - 5	Must show short on 2 - 6
6CW4	*	5	4	9	10	7	---	---	1	2	4 - 5	*Use G-140 adapter; Connect red grid cap to G-140 plug

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
6D1		1	3	15	26	7	1	---	5	6	3 - 4	Must show short on 1 - 5
6D10 *	Triode-2	1	1	30	10	7	---	---	5	7	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 0
6D10 *	Triode-1	1	6	30	10	7	---	---	2	1	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 5
6D10 *	Triode-3	1	6	30	10	7	---	---	7	3	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 5
6DE6		1	3	12	26	7	---	6	5	1	3 - 4	
6DE7	Triode-1	1	4	21	15	7	---	---	6	7	4 - 5	Must show short on 2 - 3
6DE7	Triode-2	2	4	7	8	7	2	---	1	3	4 - 5	
6DK3		3	4	0	20	7	3 - 9	---	2 - 7	---	4 - 5	
6DL3		3	4	0	17	7	*	---	7	---	4 - 5	* 2 - 3 - 6 - 8 - 9
6DL4		5	4	8	9	7	---	---	8	9	4 - 5	Must show short on 1 - 3 - 6 - 7 - 9
6DM4		1	7	---	4	7	---	---	5	---	7 - 8	
6DN3		3	5	0	16	7	2	---	7	---	4 - 5	Must show short on 2 - 7
6DQ3	*	5	1	0	6	7	---	---	4	---	1 - 11	* Key at 0
6DQ4		3	7	0	15	7	---	---	5	---	7 - 8	
6DQ6		1	2	0	4	7	---	4	11	5	2 - 7	
6DR4		1	3	15	26	7	1	---	5	6	3 - 4	Must show short on 1 - 5
6DR7	Triode-1	1	4	20	25	7	---	---	6	7	4 - 5	Must show short on 2 - 3
6DR7	Triode-2	2	4	21	5	7	2	---	1	3	4 - 5	
6DS4		5	4	12	10	7	---	---	1	2	4 - 5	
6DS5		1	3	13	14	7	1	6	5	7	3 - 4	Must show short on 1 - 7; Grid short test - Depress 1 - 7 together
6DT3	*	3	1	0	19	7	---	---	4	---	11	Key at 0
6DT4		1	7	0	4	7	1	---	5	---	7 - 8	Must show short on 1 - 5
6DU3	*	5	1	0	6	7	---	---	4	---	1 - 11	* Key at 0
6DV4		5	3	6	8	7	1 - 4	---	2	6	3 - 5	Must show short on 1 - 2 - 4 - 6
6DW4		3	4	0	16	7	7	---	2	---	4 - 5	Must show short on 2 - 7
6DY5		1	4	7	10	7	---	9	7	2	4 - 5	
6DZ4		2	3	19	10	7	1 - 2	---	7	6	3 - 4	Must short on 1 - 2 - 6 - 7
6DZ8	Triode	1	4	20	18	7	---	---	9	1	4 - 5	
6DZ8	Pentode	2	4	7	12	7	---	7	6	3	4 - 5	
6E8	Pentode	4	2	29	24	7	---	4	3	11	2 - 7	
6E8	Triode	1	2	33	28	7	---	---	6	5	2 - 7	
6EA4		5	1	50	50	7	---	---	11	8	1 - 3	Key at 2; Must show short on 4 - 7; Cap goes to top of tube; OK if reads above 30
6EC4	*	3	4	0	16	7	7 - 8	---	2	---	4 - 5	* Must use magnoval adapter; Must show short on 2 - 7 - 8; Cap goes to top of tube
6ED4	*	4	4	10	45	7	---	---	11	8	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 9; OK if reads above 30; Cap goes to top of tube

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6EF4		4	2	20	41	7	---	---	11	9	2 - 4	Key at 3; Black cap goes to top of tube
6EH4		5	1	50	50	7	---	---	11	8	1 - 3	Key at 2; Must show short on 4 - 7; Cap goes to top of tube; OK if reads above 25
6EJ4		4	2	22	45	7	---	---	11	9	2 - 4	Must show short on 1 - 5; Cap goes to top of tube
6EL4		4	2	15	50	7	---	---	11	5	2 - 7	May show short on 1 - 3 - 4 - 6 - 8; OK past 1/3 scale
6EN4		4	2	13	50	7	*	---	11	5	2 - 7	* 3 - 4 - 6 - 8; OK past 1/3 scale
6EX6		1	2	0	4	7	---	8	11	5	2 - 7	
6F10		1	2	6	26	7	---	6	8	4	2 - 7	
6F19		4	4	5	10	7	3	8	7	2	4 - 5	Must show short on 1 - 3
6F21		4	3	14	10	7	---	7	5	1	3 - 4	
6F22		1	4	17	30	7	---	1	6	9	4 - 5	Must show short on 2 - 7
6F26		4	4	5	10	7	3	8	7	2	4 - 5	Must show short on 1 - 3
6F29		1	4	5	23	7	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
6F30		1	4	5	25	7	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
6F33		1	3	11	32	7	---	6	5	1	3 - 4	
6F35		1	3	13	17	7	---	6	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
6FD6		1	3	8	20	7	---	6	5	1	3 - 4	
6FD10		2	2	5	9	7	---	---	6	8	4 - 5	
6FJ7 *	Triode-1	1	5	26	10	7	---	---	4	3	5 - 7	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 6
6FJ7 *	Triode-2	1	1	5	10	7	---	---	5	3	5 - 7	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 0
6FM7	Triode-1	4	5	0	30	7	1	---	4	9	5 - 7	Key at 6; Must show short on 1 - 9
6FM7	Triode-2	2	3	0	10	7	---	---	7	5	1 - 3	Key at 2; Red grid cap goes to top of tube
6FQ7	Triode-1	1	4	19	14	7	---	---	6	7	4 - 5	
6FQ7	Triode-2	1	4	19	14	7	---	---	1	2	4 - 5	
6FR7	Triode-1	4	4	10	13	7	---	---	6	7	4 - 5	Must show short on 2 - 3
6FR7	Triode-2	2	4	5	6	7	2	---	1	3	4 - 5	
6FY7	Triode-1	4	4	15	10	7	---	---	3	2	4 - 6	Key at 5; Use red grid cap
6FY7	Triode-2	1	1	0	9	7	---	---	7	5	1 - 3	Key at 2
6G11	Pent-1	2	7	5	7	7	---	3	4	1	5 - 7	Key at 6
6G11	Pent-2	3	1	11	23	7	---	9	8	5 - 6	1 - 3	Key at 2
6GA7	Pentode	3	3	4	19	9	---	4 - 5	9	6	1 - 3	Key at 2; Must show short on 4 - 5
6GA7	Diode	3	7	0	18	9	---	---	4	---	5 - 7	Key at 6; Must show short on 8 - 9
6GB3		3	2	0	17	7	---	4	11	5	2 - 7	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6GB5	*	3	4	2	16	7	2 - 7 - 8	6	12	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cathode short test - Depress 3 - 8 together; Red grid cap goes to top of tube
6GB6		3	2	0	17	7	---	4	11	5	2 - 7	
6GB7		2	2	7	10	7	---	4	11	5	2 - 7	
6GB9		2	2	7	10	7	---	4	11	5	2 - 7	
6GD7	Triode	5	4	7	11	7	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test
6GD7	Pentode	5	4	0	21	7	---	7	6	9	4 - 5	Depress 3 - 8 together
6GE5		5	6	7	7	7	8 - 9	---	7 - 12	3	4 - 6	Key at 5; Must show short on 2 - 3 - 8 - 9; Use red grid cap; Cathode short test - Depress 2 - 9 together
6GF5		5	6	7	7	7	8 - 9	---	7 - 12	3	4 - 6	Key at 5; Must show short on 2 - 3 - 8 - 9; Use red grid cap; Cathode short test - Depress 2 - 9 together
6GF7	Triode-1	5	4	27	10	7	---	---	8	9	4 - 5	
6GF7	Triode-2	2	4	2	10	7	---	---	6	2	4 - 5	
6GJ5		1	4	2	5	7	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6GJ7	Triode	5	4	7	8	7	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test
6GJ7	Pentode	1	4	0	38	7	---	7	6	2	4 - 5	Depress 1 - 3 together
6GK6		1	4	10	10	7	---	8	7	2	4 - 5	Must show short on 3 - 9
6GK17		5	7	0	5	7	---	---	5	---	7 - 8	
6GL7	Triode-1	2	7	15	31	7	---	---	5	4	7 - 8	
6GL7	Triode-2	2	7	5	6	7	---	---	2	1	7 - 8	
6GM5		4	4	3	9	7	---	1	9	6	4 - 5	
6GM8	Triode-1	2	4	10	10	7	---	---	6	7	4 - 5	
6GM8	Triode-2	2	4	10	10	7	---	---	1	2	4 - 5	
6GN8	Triode	4	4	9	10	7	---	---	3	2	4 - 5	
6GN8	Pentode	1	4	18	10	7	---	8	9	7	4 - 5	
6GQ7	Diode-1	3	4	0	15	7	---	---	8	---	4 - 5	
6GQ7	Diode-2	3	4	0	15	7	---	---	6	---	4 - 5	
6GQ7	Diode-3	3	4	0	15	7	---	---	2	---	4 - 5	
6GS7	Triode	5	4	7	10	7	---	---	2	1	4 - 5	
6GS7	Pentode	5	4	0	21	7	---	7	6	9	4 - 5	
6GT5		2	4	6	7	7	1 - 2	7	9	6	4 - 5	Must show short on 1 - 2 - 6 - 7
6GU5		4	3	5	10	7	2	6	5	1	3 - 4	Must show short on 2 - 7; Cathode short test
6GU7	Triode-1	1	4	15	9	7	---	---	6	7	4 - 5	Depress 2 - 7 together
6GU7	Triode-2	1	4	15	9	7	---	---	1	2	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6GV5		2	4	1	9	7	2	7	12	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Use red grid cap; Cathode short test - Depress 1 - 8 together
6GV7	Triode	5	4	7	10	7	---	---	1	9	4 - 5	Must show short on 6 - 8; Cathode short test Depress 6 - 8 together
6GV7	Pentode	5	4	0	22	7	---	2	3	7	4 - 5	
6GV8	Triode	2	4	34	10	7	---	---	1	2	4 - 5	
6GV8	Pentode	2	4	7	10	7	---	7	6	9	4 - 5	
6GW5		5	3	7	8	7	2	---	1	6	3 - 4	Must show short on 2 - 6
6GW6		3	2	0	17	7	---	4	11	5	2 - 7	
6GW8	Triode	4	4	15	10	7	---	---	9	1	4 - 5	
6GW8	Pentode	1	4	19	10	7	---	3	6	8	4 - 5	
6GX6		1	3	10	36	7	---	6	5	1	3 - 4	
6GX7	Triode	5	4	9	12	7	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
6GX7	Pentode	1	4	15	24	7	---	7	6	2	4 - 5	
6GX8	Triode	5	4	9	14	7	---	---	1	8	4 - 5	
6GX8	Eye	7	4	0	0	7	---	---	6 - 7	---	4 - 5	See instructions for eye test
6GY5	*	3	3	3	15	7	2	7	11	9	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8; Cathode short test - Depress 1 - 8 together; Black grid cap goes to top of tube
6GY6		1	3	10	32	7	---	6	5	1 - 7	3 - 4	
6GY8	Triode-1	2	4	0	10	7	---	---	6	---	4 - 5	
6GY8	Triode-2	1	4	30	10	7	---	---	9	3	4 - 5	
6GY8	Triode-3	1	4	31	10	7	---	---	2	1	4 - 5	
6GZ5		1	3	11	14	7	5	6	7	2	3 - 4	Must show short on 2 - 5
6HA5		1	3	13	10	7	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
6HA6		5	4	6	9	7	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
6HB5	*	3	1	3	17	7	---	2	7	3	1 - 12	* Key at 0; Use red grid cap
6HB6		2	4	5	16	7	6	8	7	2	4 - 5	May show short on 3 - 6 - 8 - 9
6HB7	Triode	1	4	25	10	7	1	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
6HB7	Pentode	4	4	9	10	7	1	7	6	2	4 - 5	
6HC8	Triode	4	4	10	10	7	---	---	9	1	4 - 5	
6HC8	Pentode	1	4	15	10	7	---	7	6	3	4 - 5	
6HD5	*	5	1	0	5	7	9	5	7	3	1 - 11	* Key at 0; Must show short on 5 - 9
6HD7	Triode	5	4	10	14	7	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
6HD7	Pentode	4	4	6	7	7	---	7	6	2	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6HE5	*	1	1	35	10	7	12	5	8	4	1 - 3	* Key at 2; Must show short on 5 - 12; Use red grid cap
6HE7 *	Diode	3	1	0	15	7	---	---	2	---	1 - 11	* Key at 0
6HE7 *	Pentode	5	6	0	5	7	4	5	11	3	6 - 8	* Key at 7; CAUTION: Throw lever 4 to "W" position before inserting tube
6HF5	*	1	3	0	4	7	2	7	12	9	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8; Cathode short test - Depress 1 - 8 together; Use red grid cap
6HF8	Triode	2	4	36	10	7	---	---	3	2	4 - 5	
6HF8	Pentode	1	4	26	10	7	1	6	5	7	3 - 4	
6HG5		1	3	29	10	7	1	6	5	7	3 - 4	Must show short on 1 - 7
6HJ5	*	1	1	0	4	7	9	5	7	3	1 - 11	* Key at 0; Must show short on 5 - 9
6HJ7	Triode	5	4	5	16	7	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test
6HJ7	Pentode	4	4	5	8	7	---	7	6	2	4 - 5	Depress 1 - 3 together
6HJ8	Pentode	1	4	11	22	7	---	3	6	2	4 - 5	
6HJ8	Diode	3	4	0	16	7	---	---	8	---	4 - 5	
6HK5		1	3	14	10	7	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test
6HL5		5	4	0	6	7	1	9	7	2	4 - 5	Depress 2 - 7 together
6HL7		1	6	5	10	7	---	8	7	2	4 - 5	Must show short on 1 - 2
6HL8	Triode	2	4	27	12	7	---	---	1	9	4 - 5	Must show short on 3 - 9
6HL8	Pentode	4	4	9	7	7	---	3	6	2	4 - 5	
6HM5		2	3	25	14	7	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test
6HM6		5	4	0	16	7	---	8	7	2	4 - 5	Depress 2 - 7 together
6HQ5		1	3	10	8	7	2	---	5	1	3 - 4	Must show short on 1 - 3; Cathode short test
6HR5		1	3	32	8	7	1	6	5	7	3 - 4	Depress 1 - 3 together
6HR6		4	3	6	10	7	---	6	5	1	3 - 4	Must show short on 2 - 7; Cathode short test
6HS5		5	1	5	30	7	---	---	7	2	1 - 11	Depress 2 - 7 together
6HS6		1	3	15	19	7	---	6	5	1	3 - 4	Must show short on 1 - 7
6HT5		4	2	18	50	7	---	---	11	9	2 - 4	Key at 0
6HT6		4	4	4	10	7	3	8	7	2	4 - 5	Key at 3; May show short on 1 - 5 - 7; OK above 1/3 scale; Cap goes to top of tube
6HU6	Triode	5	4	15	20	7	---	---	9	1	4 - 5	Must show short on 1 - 3; Cathode short test
6HU6	Eye	7	4	0	0	7	2 - 8	---	6 - 7	---	4 - 5	Depress 1 - 3 together
6HU8	Pent-1	5	4	6	8	7	---	1	3	2	4 - 5	Must show short on 2 - 6 - 8; Target short test - Depress 2 - 6 - 8 together
6HU8	Pent-2	5	4	6	8	7	---	9	8	6	4 - 5	See instructions for eye test

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6HV5		5	1	5	30	7	---	---	7	2	1 - 11	Key at 0
6HW8	Plate-1	4	4	5	20	7	---	3	8 - 9	6	4 - 5	
6HW8	Plate-2	4	4	5	20	7	---	3	1 - 2	6	4 - 5	
6HZ5	*	5	1	30	12	7	---	---	7	2	1 - 11	* Key at 0
6HZ6		4	3	15	15	7	---	6	5	1	3 - 4	
6J9	Triode-1	5	4	7	16	7	---	---	8	7	4 - 5	
6J9	Triode-2	5	4	7	16	7	---	---	6	9	4 - 5	
6J9	Triode-3	5	4	7	16	7	---	---	1	2	4 - 5	
6J10	Sect-1	1	5	21	11	7	---	8	2	4	5 - 7	Key at 6; Use red grid cap
6J10	Sect-2	1	1	0	25	7	---	---	4 - 6	---	1 - 12	Key at 0
6J11	Pent-2	1	3	5	31	7	---	4	5	7	1 - 3	Key at 2
6J11	Pent-1	1	9	5	31	7	---	2	4	6	7 - 9	Key at 8
6JA5	*	1	1	5	5	7	12	5	8	4	1 - 3	* Key at 2; May show short on 5 - 6 - 12; Use red grid cap
6JA8	Triode	2	4	35	10	7	---	---	3	2	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6JA8	Tetrode	2	4	12	15	7	---	8	9	7	4 - 5	
6JB5	*	1	1	35	10	7	12	5	8	---	1 - 3	* Key at 2; Must show short on 5 - 12; Use red grid cap
6JB6		2	4	1	6	7	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6JC5	*	1	1	23	10	7	12	5	8	4	1 - 3	* Key at 2; Must show short on 5 - 12; Use red grid cap
6JC6		1	4	5	24	7	3	8	7	2	4 - 5	Must short on 1 - 3; Cathode short test - Depress 1 - 3 together
6JC8	Triode	1	4	27	10	7	7	---	9	8	4 - 5	Cathode short test - Depress 1 - 7 together
6JC8	Pentode	4	4	19	9	7	7	3	6	2	4 - 5	
6JD5	*	5	1	30	12	7	---	---	7	2	1 - 11	* Key at 0
6JD6		1	4	8	20	7	3	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test - Depress 1 - 3 together
6JE6		3	4	0	17	7	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6JF6		5	4	0	6	7	1-2-9	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6JG5		3	4	3	23	7	---	8	9	7	5	
6JG6		1	4	10	28	7	1	6	9	2	4 - 5	Must show short on 1 - 7
6JH5	*	3	1	10	25	7	#	3	7	2	12	* Key at 0; # 8 - 10 - 11; Must show short on 7 - 8; Use red grid cap; Plate short test - Depress 7 - 8 together
6JH6		4	3	7	10	7	---	6	5	1	3 - 4	
6JH8	Sect-1	4	4	18	19	7	---	3	9	6	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6JH8	Sect-2	4	4	18	20	7	---	3	8	6	4 - 5	
6JK5	*	3	1	10	25	7	#	3	7	2	12	* Key at 0; # 8 - 10 - 11; Must show short on 7 - 8; Use red grid cap; Plate short test - Depress 7 - 8 together
6JK6		1	3	9	16	7	---	6	5	1	3 - 4	
6JK8	Triode-1	1	4	23	10	7	---	---	6	7	4 - 5	
6JK8	Triode-2	1	4	15	10	7	---	---	1	2	4 - 5	
6JL6		1	3	2	17	7	---	6	5	1	3 - 4	
6JM6		5	2	0	5	7	---	6	11	8	2 - 4	Key at 3; Black cap goes to top of tube
6JN6		1	4	0	5	7	---	8	11	3	4 - 6	Key at 5; Will show short on 2 - 9
6JN8	Triode	2	4	15	18	7	---	---	2	1	4 - 5	
6JN8	Pentode	1	4	15	22	7	---	7	6	9	4 - 5	
6JQ6	Pentode	1	4	10	5	7	2 - 7	3	1	8	4 - 5	
6JQ6	Diode	3	4	0	22	7	---	---	6	---	4 - 5	
6JR6		4	4	5	20	7	1	6	9	2	4 - 5	Must show short on 1 - 7
6JS6		5	4	0	6	7	1	6	11	8	2 - 4	Key at 3; Black cap goes to top of tube; Must show short on 1 - 6
6JT6		1	4	2	5	7	---	---	3	2	4 - 5	Must show short on 1 - 7
6JT8	Triode	4	4	10	9	7	---	---	3	2	4 - 5	
6JT8	Pentode	1	4	0	17	7	---	8	9	7	4 - 5	
6JU6		1	4	7	32	7	6	1	12	2	4 - 5	Red grid cap goes to top of tube; Must show short on 1 - 2 - 6 - 7
6JU8	Diode-1	3	4	0	16	7	7	---	8	---	4 - 5	Must show short on 2 - 8; Cathode short test - Depress 8 - 9 together; Cathode short test - Depress 2 - 3 together
6JU8	Diode-2	3	4	0	16	7	---	---	7	---	4 - 5	
6JU8	Diode-3	3	4	0	16	7	1	---	2	---	4 - 5	
6JU8	Diode-4	3	4	0	16	7	---	---	1	---	4 - 5	
6JV8	Triode	4	4	4	9	7	---	---	3	2	4 - 5	
6JV8	Pentode	4	4	3	10	7	---	8	9	7	4 - 5	
6JW8	Triode	5	4	10	15	7	---	---	1	9	4 - 5	
6JW8	Pentode	4	4	7	11	7	---	3	6	2	4 - 5	
6JX8	Triode	5	4	9	17	7	---	---	8	9	4 - 5	
6JX8	Heptode	5	4	6	16	7	---	7	6	2	4 - 5	
6JY8	Triode	1	4	16	11	7	---	---	3	2	4 - 5	
6JY8	Pentode	1	4	10	16	7	---	8	9	7	4 - 5	
6JZ6		2	2	0	6	7	---	6	11	8	2 - 4	Key at 3; Black cap goes to top of tube
6JZ8	Pentode	2	7	7	7	7	1	3	12	2	7 - 9	Key at 8; Must show short on 1 - 2
6JZ8	Triode	2	4	30	10	7	---	---	7	2	4 - 6	Key at 5; Use red grid cap
6K11 *	Triode-2	1	1	33	10	7	---	---	5	7	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 0

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6K11 *	Triode-1	1	6	27	10	7	---	---	2	1	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 5
6K11 *	Triode-3	1	6	33	10	7	---	---	7	3	1 - 12	*Use G-140 adapter; Connect red grid cap to G-140 plug; Key at 5
6KA8	Triode	4	4	2	10	7	---	---	1	2	4 - 5	
6KA8	Pentode	4	4	8	13	7	---	8	9	6	4 - 5	
6KD6		5	3	0	5	7	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
6KD8	Triode	1	4	25	10	7	---	---	1	9	4 - 5	
6KD8	Pentode	1	4	18	25	7	---	3	6	2	4 - 5	
6KE8	Triode	2	4	32	10	7	---	---	1	9	4 - 5	
6KE8	Pentode	4	4	5	10	7	---	3	6	2	4 - 5	
6KF8	Pent-1	4	4	5	30	7	---	2	8	7	4 - 5	
6KF8	Pent-2	4	4	5	30	7	---	2	3	7	4 - 5	
6KG6	*	1	4	8	26	7	1-2-3	7	11	8	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Black cap goes to top of tube
6KH8		3	4	35	20	7	---	---	1 - 9	2	4 - 5	
6KH8		1	4	23	15	7	---	9	3	2	4 - 5	
6KH8		1	4	23	15	7	---	9	8	6	4 - 5	
6KL8	Pentode	4	4	13	10	7	---	6	7	2	4 - 5	
6KL8	Diode	3	4	0	27	7	---	---	8	---	4 - 5	
6KM6		5	4	0	6	7	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6KM8	Diode	3	4	0	27	7	---	---	3	---	4 - 5	Must show short on 4 - 9; Black cap goes to top of tube
6KM8	Tetrode-1	4	4	18	10	7	---	8	1	7	4 - 5	
6KM8	Tetrode-2	4	4	19	10	7	---	8	2	7	4 - 5	
6KM8	Tetrode-3	4	4	21	10	7	---	8	9	7	4 - 5	
6KN6		1	5	12	25	7	9	3	11	2	5 - 7	Key at 6; Must show short on 4 - 9; Black cap goes to top of tube
6KN8	Triode-1	1	4	5	9	7	---	---	6	7	4 - 5	
6KN8	Triode-2	1	4	5	9	7	---	---	1	2	4 - 5	
6KR8	Triode	1	4	7	13	7	---	---	3	2	4 - 5	
6KR8	Pentode	1	4	5	11	7	---	8	9	7	4 - 5	
6KS6		4	3	6	41	7	---	5	7	2 - 6	3 - 4	
6KS8	Triode	5	4	14	13	7	---	---	3	2	4 - 5	
6KS8	Pentode	1	4	11	15	7	---	---	8	9	4 - 5	
6KT6		5	4	0	20	7	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
6KT8	Triode	4	4	6	6	7	---	---	3	2	4 - 5	
6KT8	Pentode	2	4	0	44	7	---	8	9	7	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6KU8	Diode-1	3	4	0	24	7	2	---	3	---	4 - 5	
6KU8	Diode-2	3	4	0	24	7	3	---	2	---	4 - 5	
6KU8	Pentode	1	4	9	8	7	---	8	9	7	4 - 5	
6KV6		5	4	0	5	7	1	7	9	2	4 - 5	Must show short on 1 - 7
6KV8	Triode	1	4	31	10	7	---	---	3	2	4 - 5	
6KV8	Pentode	1	4	9	9	7	---	8	9	7	4 - 5	
6KX8	Triode-1	5	4	16	17	7	---	---	7	9	4 - 5	
6KX8	Triode-2	5	4	16	17	7	---	---	3	1	4 - 5	
6KY6		1	4	6	9	7	---	8	7	2	4 - 5	Must show short on 3 - 9
6KY8	Triode	1	4	12	24	7	---	---	8	9	4 - 5	
6KY8	Pentode	5	4	0	6	7	---	7	6	2	4 - 5	
6KZ8	Pentode	4	4	9	10	7	---	7	6	2	4 - 5	
6KZ8	Triode	3	4	15	18	7	---	---	1	9	4 - 5	
6LB6		5	3	0	5	7	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
6LB8	Triode	1	4	18	10	7	---	---	3	2	4 - 5	
6LB8	Pentode	2	4	7	18	7	---	8	9	7	4 - 5	
6LC6		4	2	22	50	7	---	---	11	5	2 - 7	May show short on 1 - 3 - 4
6LC8	Triode	1	4	29	10	7	---	---	1	2	4 - 5	May show short on 3
6LC8	Pentode	4	4	8	16	7	---	8	9	6	4 - 5	
6LD6		1	4	5	15	7	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
6LE8	Pent-1	5	4	0	27	7	---	8	1	9	4 - 5	
6LE8	Pent-2	5	4	0	33	7	---	8	6	9	4 - 5	
6LF6		5	3	0	5	7	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
6LF8	Triode	1	4	29	11	7	---	---	3	2	4 - 5	
6LF8	Pentode	1	4	21	10	7	---	8	9	7	4 - 5	
6LG6		3	3	3	20	9	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8
6LH6		4	2	18	50	7	---	---	11	5	2 - 7	May show short on 1 - 3 - 4
6LJ6		7	7	33	43	7	1 - 4	3	11	5	2 - 7	Must show short on 1 - 3 - 4
6LJ8	Triode	5	4	8	12	7	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test
6LJ8	Pentode	5	4	0	26	7	7	6	9	---	4 - 5	Depress 3 - 8 together
6LM8	Triode	1	4	24	10	7	---	---	1	9	4 - 5	
6LM8	Pentode	4	4	3	12	7	---	3	6	2	4 - 5	
6LN8	Triode	1	4	14	10	7	---	---	1	9	4 - 5	
6LN8	Pentode	1	4	23	16	7	---	3	6	2	4 - 5	
6LQ6		3	4	0	17	7	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6LQ8	Triode	5	4	8	11	7	---	---	3	2	4 - 5	
6LQ8	Pentode	1	4	7	11	7	---	8	9	7	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6LR6		5	4	0	6	7	1	6	11	8	2 - 4	Key at 3; Cap goes to top of tube; Must show short on 1 - 6
6LR8	Triode	5	4	8	14	7	---	---	8	9	4 - 5	
6LR8	Pentode	5	4	0	6	7	---	7	6	2	4 - 5	
6LT8	Diode-1	3	4	0	15	7	---	---	8	---	4 - 5	May show short on 1
6LT8	Diode-2	3	4	0	15	7	---	---	6	---	4 - 5	
6LT8	Pentode	5	4	0	22	7	---	2	3	9	4 - 5	
6LU6		3	3	5	29	7	---	6	5	1	4	
6LU8	Triode	2	4	13	19	7	---	---	7	2	4 - 6	Key at 5; Use red grid cap
6LU8	Pentode	2	7	5	5	7	1	3	12	2	7 - 9	Key at 8; Must show short on 1 - 2
6LV6	*	5	3	0	5	7	2	7	11	9	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
6LW6		1	7	0	5	7	1 - 4 - 6	3	11	5	7 - 8	Must show short on 1 - 2 - 5 - 6; Cathode short test - Depress 2 - 6 together
6LX6	*	3	4	15	20	7	1	6	11	8	2 - 4	* Key at 3; Must show short on 1 - 6; Black cap goes to top of tube
6LX8	Triode	1	4	11	16	7	---	---	1	9	4 - 5	
6LX8	Pentode	5	4	5	18	7	---	3	6	2	4 - 5	
6LY8	Triode	2	4	25	25	7	---	---	3	2	4 - 5	
6LY8	Pentode	1	4	7	12	7	---	8	9	7	4 - 5	
6LZ6		2	4	10	27	7	1 - 2	6	11	7	4 - 5	Must show short on 1 - 2 - 6 - 7
6M11	Triode-1	2	1	28	19	7	---	---	7	8	1 - 12	Key at 0; Use red grid cap
6M11	Triode-2	2	1	28	19	7	---	---	6	5	1 - 12	
6M11	Pentode	1	5	14	25	7	---	7	2	6	1 - 12	Key at 4
6MA6		4	3	29	32	7	*	---	11	6	#	* 2 - 3 - 4 - 5 - 8; # 1 - 2 - 4 - 5; Good tube reads above 40
6MB6	*	3	6	6	20	7	8 - 9	3	11	1	4	* Key at 5; Must show short on 2 - 3 - 8 - 9; Grid cap goes to top of tube
6MB8	Triode	5	4	10	12	7	---	---	2	1	4 - 5	
6MB8	Pentode	4	4	5	7	7	---	7	6	9	4 - 5	
6MC6		3	4	15	20	7	6 - 7	1	11	2	5	Must show short on 1 - 2 - 6 - 7; Grid short test - Depress 2 - 6 together; Screen short test - Depress 1 - 7 together; Grid cap goes to top of tube
6MD8	Triode-1	1	4	11	10	7	---	---	3	6	4 - 5	
6MD8	Triode-2	1	4	11	10	7	---	---	2	8	4 - 5	
6MD8	Triode-3	1	4	11	10	7	---	---	1	9	4 - 5	
6ME6		3	4	4	20	7	6 - 7	1	11	2	5	Must show short on 1 - 2 - 6 - 7; Grid short test - Depress 2 - 6 together; Screen short test - Depress 1 - 7 together; Grid cap goes to top of tube
6ME8	Sect-1	4	4	18	20	7	---	3	9	6	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
6ME8	Sect-2	4	4	18	20	7	---	3	8	6	4 - 5	
6MF8	Pentode	2	7	5	17	7	1	3	12	2	7 - 9	Key at 8; Must show short on 1 - 2
6MF8	Triode	2	4	8	30	7	---	---	7	2	4 - 6	Key at 5; Use red grid cap
6MG8	Triode	2	4	15	20	7	---	---	1	9	4 - 5	
6MG8	Pentode	4	4	8	10	7	---	3	6	2	4 - 5	
6MH1		1	3	33	6	7	1 - 5	---	7	6	3 - 4	Must show short on 1 - 5 - 6; Grid short test - Depress 1 - 5 - 6 together
6MH6	*	5	3	0	5	7	2	7	11	9	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
6MHH3	Triode	1	3	16	13	7	---	---	2	5	3 - 4	
6MHH3	Triode	1	3	16	13	7	---	---	1	6	3 - 4	
6MJ6		3	4	0	17	7	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
6MJ8	Triode-1	1	1	10	11	7	---	---	6	8	1 - 11	Key at 0
6MJ8	Triode-2	1	3	10	11	7	---	---	8	1	1 - 11	Key at 4
6MJ8	Triode-3	1	3	10	11	7	---	---	6	2	1 - 11	
6MK8	Pent-1	4	4	10	26	7	---	2	8	7	4 - 5	
6MK8	Pent-2	4	4	10	26	7	---	2	3	7	4 - 5	
6ML4		2	3	19	10	7	1 - 2	---	7	6	3 - 4	Must show short on 1 - 2 - 6 - 7
6ML8	Triode-1	1	4	12	16	7	---	---	3	6	4 - 5	
6ML8	Triode-2	1	4	12	16	7	---	---	2	8	4 - 5	
6ML8	Triode-3	1	4	12	16	7	---	---	1	9	4 - 5	
6MN8	Triode-1	1	7	7	19	7	---	---	8	4	5	Key at 6
6MN8	Triode-2	1	6	7	21	7	---	---	9	2	5	Key at 5
6MN8	Triode-3	1	1	7	19	7	---	---	6	8	5	Key at 0
6MP17		2	4	18	19	7	---	6	5	1	3 - 4	
6MP18		1	3	10	13	7	1	6	5	7	3 - 4	
6MP20		1	3	12	20	5	---	6	5	1	3 - 4	
6MQ8	Triode	1	4	17	15	7	---	---	1	9	5	
6MQ8	Pentode	1	4	17	21	7	---	3	6	2	5	
6MU8	Triode	1	4	25	11	7	---	---	1	9	4 - 5	
6MU8	Pentode	1	4	14	16	7	---	3	6	2	4 - 5	
6MV8	Triode	1	4	15	18	7	---	---	3	2	4 - 5	
6MV8	Pentode	1	4	15	22	7	---	8	9	7	4 - 5	
6MX8	Triode	1	4	12	24	7	---	---	8	9	4 - 5	
6MX8	Pentode	5	4	0	6	7	---	7	6	2	4 - 5	
6MY8	Triode *	2	4	13	19	7	---	---	7	2	6	* Key at 5
6MY8	Pentode *	2	7	5	5	7	1	3	12	2	9	* Key at 8; Must show short on 1 - 2; Use red grid cap
6N3		3	4	0	18	7	---	---	9	---	4 - 5	
6PL12	Triode	1	4	31	11	7	---	---	9	1	4 - 5	
6PL12	Pentode	1	4	10	12	7	---	7	6	3	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	CONT.	
6Q8	Pentode	4	2	29	24	7	---	4	3	11	2 - 7	
6Q8	Triode	1	2	33	28	7	---	---	6	5	2 - 7	
6Q11	Triode-1	1	6	25	10	7	---	---	2	1	4 - 6	Key at 5
6Q11	Triode-3	1	6	25	18	7	---	---	7	3	4 - 6	
6Q11	Triode-2	1	3	25	18	7	---	---	7	9	1 - 3	Key at 2
6R3		3	4	0	16	7	2	---	9	---	4 - 5	May show short on all pins
6R4		1	4	11	11	7	---	---	8	1	4 - 5	
6RA6		3	4	9	20	7	7	---	9	2	4 - 5	Must show short on 2 - 7; Grid short test - Depress 2 - 7 together
6RA9		3	4	9	20	7	7	---	9	2	4 - 5	Must show short on 2 - 7; Grid short test - Depress 2 - 7 together
6RB11		2	4	10	10	7	6	1	9	3	4 - 5	Must show short on 3 - 6
6RHH2	Triode	1	4	15	11	7	---	---	6	7	4 - 5	
6RHH2	Triode	1	4	15	11	7	---	---	1	2	4 - 5	
6RHH8	Triode-1	1	4	5	9	7	---	---	6	7	4 - 5	
6RHH8	Triode-2	1	4	5	9	7	---	---	1	2	4 - 5	
6RK19		3	4	0	15	7	2	---	9	---	4 - 5	May show short on 2 - 19
6RP15		5	4	10	8	7	1	9	7	2	4 - 5	Must show short on 1 - 2
6RP22		4	4	0	11	7	9	3 - 8	6	2	4 - 5	Must show short on 2 - 3 - 8 - 9
6T10		2	3	24	11	7	1 - 2	---	7	6	3 - 4	Must show short on 1 - 2 - 6 - 7
6T9	Triode	1	3	32	10	7	---	---	6	8	3 - 5	Key at 4; Use red grid cap
6T9	Pentode	1	7	30	10	7	---	5	6	3	7 - 9	Key at 8
6T10		4	1	15	11	7	---	6	7	3	1 - 12	Key at 0; Use red grid cap
6T10		5	7	10	10	7	---	3	4	1	5 - 7	Key at 6
6U3		3	4	0	18	7	---	---	9	---	4 - 5	
6U9	Triode	5	5	9	10	7	---	---	9	11	5 - 6	
6U9	Pentode	5	5	0	20	7	---	8	7	3	5 - 6	
6U10		1	4	27	10	7	---	---	2	1	4 - 6	Key at 5; Use red grid cap
6U10		4	1	20	10	7	---	---	5	7	1 - 12	Key at 0
6U10		5	2	28	10	7	---	---	5	1	4 - 2	Key at 3
6V9	Triode	5	5	8	10	7	---	---	11	8	5 - 6	
6V9	Pentode	5	5	5	23	7	---	4	7	3	5 - 6	
6X9	Triode	4	5	10	14	7	---	---	9	11	5 - 6	
6X9	Pentode	2	5	0	39	7	---	8	7	3	5 - 6	
6Y9	Pent-1	1	5	7	11	7	---	9	11	8	5 - 6	
6Y9	Pent-2	1	5	15	16	7	---	3	4	1	5 - 6	
6Y10	Pent-1	4	1	7	13	7	---	6	7	3	1 - 11	Key at 0
6Y10	Pent-2	5	7	5	11	7	---	3	4	1	1 - 11	Key at 6
6Z4		2	3	0	3	7	---	---	1	---	3 - 4	
6Z4		2	3	0	3	7	---	---	6	---	3 - 4	
6Z10	Pent-1	1	5	21	11	7	---	8	2	4	5 - 7	Key at 6; Use red grid cap
6Z10	Pent-2	1	1	0	25	7	---	---	4 - 6	---	1 - 12	Key at 0

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6CL8	Triode	1	4	22	10	8	---	---	2	1	4 - 5	
6CL8	Tetrode	4	4	9	10	8	---	7	6	9	4 - 5	
7D10		1	4	20	12	7	---	8	7	2	4 - 5	
7D11		1	2	9	9	7	---	4	3	5	2 - 7	
7DZ7	Pent-1	1	2	17	10	9	---	4	6	5	2 - 7	
7DZ7	Pent-2	1	2	15	10	9	---	4	3	1	2 - 7	
7GS7	Triode	5	4	7	10	8	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test
7GS7	Pentode	5	4	0	21	8	---	7	6	9	4 - 5	Depress 3 - 8 together
7GV7	Triode	5	4	7	10	8	---	---	1	9	4 - 5	Must show short on 6 - 8; Cathode short test
7KY6		1	4	6	9	8	---	8	7	2	4 - 5	Depress 6 - 8 together
7KZ6		1	4	6	8	8	---	8	7	2	4 - 5	Must show short on 3 - 9
7MP18		1	3	10	13	8	1	6	5	7	3 - 4	Must show short on 3 - 9
8A8	Triode	1	4	13	10	8	---	---	1	9	4 - 5	
8A8	Pentode	1	4	30	15	8	---	3	6	2	4 - 5	
8AC9	Diode	3	1	0	15	8	---	---	2	---	1 - 11	Key at 0; May show short on 3
8AC9	Pentode	4	6	7	8	8	---	4	5	3	1 - 11	Key at 7
8AC10	Triode-1	1	4	14	14	8	---	---	2	1	4 - 6	Key at 5
8AC10	Triode-2	4	1	14	15	8	---	---	5	7	4 - 6	Key at 0
8AC10	Triode-3	5	2	14	15	8	---	---	5	1	4 - 6	Key at 3
8AL9	Triode	2	1	14	30	8	---	---	9	7	1 - 3	Key at 2
8AL9	Pentode	2	6	10	15	8	---	2	7	3	4 - 6	Key at 5
8AR11	Pent-2	1	3	7	30	8	---	5	4	7	1 - 3	Key at 2
8AR11	Pent-1	1	9	7	30	8	---	4	3	5	1 - 3	Key at 8
8AV11	Triode-1	1	6	15	15	8	---	---	2	1	4 - 6	Key at 5
8AV11	Triode-3	1	6	15	15	8	---	---	7	3	4 - 6	
8AV11	Triode-2	1	3	15	15	8	---	---	7	9	4 - 6	Key at 2
8B8	Triode	1	4	32	10	8	---	---	9	1	4 - 5	
8B8	Pentode	1	4	15	10	8	---	7	6	3	4 - 5	
8B10	Triode-1	1	1	28	10	8	---	---	6	5	1 - 11	Key at 0; Use black grid cap
8B10	Triode-2	1	1	28	10	8	---	---	4	3	1 - 11	
8B10	Diode-1	3	7	0	16	8	---	---	3	---	1 - 11	Key at 6
8B10	Diode-2	3	7	0	16	8	---	---	1	---	1 - 11	
8BA11	Pent-1	4	3	27	20	8	---	7	6	8	3 - 5	Key at 4; Use red grid cap
8BA11	Pent-2	4	1	21	26	8	---	3	6	4	1 - 12	Key at 0
8BA11	Triode	3	7	16	17	8	---	---	6	4	7 - 9	Key at 8
8BM11	Pent-2	4	1	7	9	8	---	3	2	6	1 - 11	Key at 0
8BM11	Pent-1	4	7	5	10	8	---	4	2	6	1 - 11	Key at 8
8BN11	Pent-1	5	6	0	28	8	---	3	5	1	6 - 8	Key at 7
6BN11	Pent-2	5	1	0	28	8	---	6	7	5	6 - 8	Key at 2
8BQ7	Triode-1	1	4	15	11	8	---	---	6	7	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
8BQ7	Triode-2	1	4	15	11	8	---	---	1	2	4 - 5	
8BQ11	Pent-2	1	3	14	23	8	---	5	4	7	1 - 3	Key at 2
8BQ11	Pent-1	1	9	14	23	8	---	4	3	5	1 - 3	Key at 8
8BU11	Triode-1	5	1	8	13	8	---	---	3	4	1 - 11	Key at 0
8BU11	Triode-2	5	1	8	13	8	---	---	7	6	1 - 11	
8BU11	Pentode	5	6	8	9	7?	---	3	4	2	1 - 11	Key at 7; Lever E?
8CB11	Pent-2	1	3	7	30	8	---	5	4	7	1 - 3	Key at 2
8CB11	Pent-1	1	9	7	30	8	---	4	3	5	1 - 3	Key at 8
8CL8	Triode	1	4	22	10	8	---	---	2	1	4 - 5	
8CL8	Tetrode	4	4	9	10	8	---	7	6	9	4 - 5	
8CW5		1	4	0	10	8	1-6-8	9	7	2	4 - 5	
8CY5		2	3	20	11	8	---	6	5	1	3 - 4	
8D8		1	4	17	30	8	---	1	6	9	4 - 5	Must show short on 2 - 7
8DX8	Triode	1	4	31	10	8	---	---	2	1	4 - 5	
8DX8	Pentode	1	4	26	11	8	---	9	6	8	4 - 5	
8FE5		1	2	5	6	8	---	4	3	5	2 - 7	
8FQ7	Triode-1	1	4	19	14	8	---	---	6	7	4 - 5	
8FQ7	Triode-2	1	4	19	14	8	---	---	1	2	4 - 5	
8FY7	*	4	4	15	10	8	---	---	3	2	4 - 6	* Key at 5; Use red grid cap
8FY7	*	1	1	0	9	8	---	---	7	5	4 - 6	* Key at 2
8GJ7	Triode	5	4	7	8	8	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test
8GJ7	Pentode	1	4	0	38	8	---	7	6	2	4 - 5	Depress 1 - 3 together
8GM6		4	3	4	10	8	---	6	5	1	3 - 4	
8GN8	Triode	4	4	9	10	8	---	---	3	2	4 - 5	
8GN8	Pentode	1	4	18	10	8	---	8	9	7	4 - 5	
8GU7	Triode-1	1	4	15	9	8	---	---	6	7	4 - 5	
8GU7	Triode-2	1	4	15	9	8	---	---	1	2	4 - 5	
8GX7	Triode	5	4	9	8	8	---	---	8	9	4 - 5	Must show short on 1 - 3; Cathode short test
8GX7	Pentode	4	4	5	7	8	---	7	6	2	4 - 5	Depress 1 - 3 together
8HA6		5	4	6	9	8	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
8HG8	Triode	1	4	5	10	8	---	---	7	6	4 - 5	May show short on 1 - 3; Cathode short test -
8HG8	Pentode	1	4	7	25	8	---	9	8	2	4 - 5	Depress 1 - 3 together
8JK8	Triode-1	1	4	23	10	8	---	---	6	7	4 - 5	
8JK8	Triode-2	1	4	15	10	8	---	---	1	2	4 - 5	
8JT8	Triode	4	4	10	9	8	---	---	3	2	4 - 5	
8JT8	Pentode	1	4	0	17	7?	---	8	9	7	4 - 5	Lever E ?
8JU8	Diode-1	3	4	0	16	8	7	---	8	---	4 - 5	Must show short on 2 - 8; Cathode short test
												Depress 8 - 9 together; Cathode short test -
												Depress 2 - 3 together

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	CONT.	
8JU8	Diode-2	3	4	0	16	8	---	---	7	---	4 - 5	
8JU8	Diode-3	3	4	0	16	8	1	---	2	---	4 - 5	
8JU8	Diode-4	3	4	0	16	8	---	---	1	---	4 - 5	
8JV8	Triode	4	4	4	9	8	---	---	3	2	4 - 5	
8JV8	Pentode	4	4	3	10	8	---	8	9	7	4 - 5	
8K11 *	Triode-2	1	1	33	10	8	---	---	5	7	1 - 12	* Key at 0; Use red grid cap
8K11 *	Triode-1	1	6	27	10	8	---	---	2	1	1 - 12	* Key at 5
8K11	Triode-3	1	6	33	10	8	---	---	7	3	1 - 12	
8KA8	Triode	4	4	2	10	8	---	---	1	2	4 - 5	
8KA8	Pentode	4	4	15	10	8	---	8	9	6	4 - 5	
8KR8	Triode	1	4	7	13	8	---	---	3	2	4 - 5	
8KR8	Pentode	1	4	5	11	8	---	8	9	7	4 - 5	
8KS8	Triode	5	4	14	13	8	---	---	3	2	4 - 5	
8KS8	Pentode	1	4	11	15	8	---	8	9	7	4 - 5	
8KT8	Triode	4	4	6	6	8	---	---	3	2	4 - 5	
8KT8	Pentode	2	4	0	44	8	---	8	9	7	4 - 5	
8LC8	Triode	1	4	29	10	8	---	---	1	2	4 - 5	May show short on 3
8LC8	Pentode	4	4	8	16	8	---	8	9	6	4 - 5	
8LE8	Pent-1	5	4	0	27	8	---	8	1	9	4 - 5	
8LE8	Pent-2	5	4	0	33	8	---	8	6	9	4 - 5	
8LS6		1	4	25	34	8	9	3	7	2	4 - 5	Must show short on 3 - 9
8LT8	Diode-1	3	4	0	15	8	---	---	8	---	4 - 5	May show short on 1
8LT8	Diode-2	3	4	0	15	8	---	---	6	---	4 - 5	
8LT8	Pentode	5	4	0	22	8	---	2	3	9	4 - 5	
8LX8	Triode	1	4	11	16	8	---	---	1	9	4 - 5	
8LX8	Pentode	5	4	5	18	8	---	3	6	2	4 - 5	
8MD8	Triode-1	1	4	11	10	8	---	---	3	6	4 - 5	
8MD8	Triode-2	1	4	11	10	8	---	---	2	8	4 - 5	
8MD8	Triode-3	1	4	11	10	8	---	---	1	9	4 - 5	
8MU8	Triode	1	4	25	11	8	---	---	1	9	4 - 5	
8MU8	Pentode	1	4	14	16	8	---	3	6	2	4 - 5	
8MV8	Triode	1	4	15	18	8	---	---	3	2	4 - 5	
8MV8	Pentode	1	4	15	22	8	---	8	9	7	4 - 5	
8RHP1	Triode	1	4	32	10	8	---	---	9	1	4 - 5	
8RHP1	Pentode	1	4	15	10	8	---	7	6	3	4 - 5	
8U9	Triode	2	5	9	10	8	---	---	9	11	5 - 6	
8U9	Pentode	2	5	0	20	8	---	8	7	3	5 - 6	
8X9	Triode	4	5	10	14	8	---	---	9	11	5 - 6	
8X9	Pentode	2	5	0	39	8	---	8	7	3	5 - 6	
9A8	Triode	1	4	13	10	9	---	---	1	9	4 - 5	
9A8	Pentode	1	4	30	15	9	---	3	6	2	4 - 5	
9AB4		1	3	30	10	9	---	---	1	6	3 - 4	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
		LEVER										
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
9AH9 *	Triode	1	1	8	13	8	---	---	3	2	1 - 11	* Key at 0; Must show short on 5 - 6
9AH9 *	Pentode	1	6	5	12	8	---	2	5	11	1 - 11	* Key at 7
9AK10	Triode-2	2	1	5	35	9	---	---	5	7	11	Key at 0
9AK10	Triode-1	2	5	5	34	9	---	---	8	4	7	Key at 6
9AK10	Triode-3	2	7	5	32	9	---	---	5	4	9	Key at 8
9AM10 *		1	4	13	18	8	---	---	2	1	4 - 6	* Key at 5
9AM10 *		3	1	13	18	8	---	---	5	7	4 - 6	* Key at 0
9AM10 *		5	2	13	18	8	---	---	5	1	4 - 6	* Key at 3
9AQ8	Triode-1	1	4	25	11	9	---	---	6	7	4 - 5	
9AQ8	Triode-2	1	4	25	11	9	---	---	1	2	4 - 5	
9BJ11	Pent-2	1	4	0	16	9	---	3	2	6	1 - 11	Key at 0
9BJ11	Pent-1	4	7	0	15	9	---	4	2	6	1 - 11	Key at 8
9CG8	Triode	1	4	18	12	9	---	---	2	1	4 - 5	Must show short on 3 - 8; Cathode short test
9CG8	Pentode	1	4	25	28	9	---	7	6	9	4 - 5	- Depress 3 - 8 together
9DK3		3	4	0	20	9	3 - 9	---	1 - 7	---	4 - 5	
9DZ8	Triode	1	4	20	18	9	---	---	9	1	4 - 5	
9DZ8	Pentode	2	4	7	12	9	---	7	6	3	4 - 5	
9EA8	Triode	1	4	18	11	9	---	---	1	9	4 - 5	
9EA8	Pentode	1	4	20	23	9	---	3	6	2	4 - 5	
9ED4	*	4	4	10	45	8	---	---	11	8	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 9; OK above 30; Cap goes to top of tube
9FG6	Triode	4	4	10	34	5	---	---	9	1	4 - 5	Must show short on 2 - 6 - 8
9FG6	Eye	7	4	0	0	5	2 - 8	---	6 - 7	---	4 - 5	See instructions for eye test
9GH8	Triode	1	4	25	10	9	---	---	1	9	4 - 5	
9GH8	Pentode	1	4	18	21	9	---	3	6	2	4 - 5	
9GV7	Triode	5	4	7	10	9	---	---	1	9	4 - 5	Must show short on 6 - 8; Cathode short test
9GV7	Pentode	5	4	0	22	9	---	2	3	7	4 - 5	Depress 6 - 8 together
9GV8	Triode	2	4	34	10	8	---	---	1	2	4 - 5	
9GV8	Pentode	2	4	7	10	8	---	7	6	9	4 - 5	
9JW8	Triode	5	4	10	15	9	---	---	1	9	4 - 5	
9JW8	Pentode	4	4	7	10	9	---	3	6	2	4 - 5	
9KC6		5	4	0	20	8	---	9	7	2	4 - 5	
9KG6	*	1	4	8	26	9	1-2-3	7	11	8	4 - 5	* Must use magnoval adapter; Black cap goes to top of tube; Must show short on 1 - 2 - 3 - 6 - 7 - 8
9KV8	Triode	1	4	31	10	9	---	---	3	2	4 - 5	
9KV8	Pentode	1	4	9	9	9	---	8	9	7	4 - 5	
9KX6		1	4	5	8	12	---	8	7	2	4 - 5	Must show short on 3 - 9
9KZ8	Pentode	4	4	9	10	9	---	7	6	2	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
9KZ8	Triode	3	4	15	18	9	---	---	1	9	4 - 5	
9LA6		1	4	6	11	8	---	8	7	2	4 - 5	Must show short on 3 - 9
9MD8	Triode-1	1	4	11	10	9	---	---	3	6	4 - 5	
9MD8	Triode-2	1	4	11	10	9	---	---	2	8	4 - 5	
9MD8	Triode-3	1	4	11	10	9	---	---	1	9	4 - 5	
9MHH3	Triode	1	3	16	13	8	---	---	2	5	3 - 4	
9MHH3	Triode	1	3	16	13	8	---	---	1	6	3 - 4	
9ML8	Triode-1	1	4	12	16	8	---	---	3	6	4 - 5	
9ML8	Triode-2	1	4	12	16	8	---	---	2	8	4 - 5	
9ML8	Triode-3	1	4	12	16	8	---	---	1	9	4 - 5	
9MN8 *	Triode-1	1	7	10	19	8	---	---	8	4	5	* Key at 6
9MN8 *	Triode-2	1	6	10	21	8	---	---	9	2	5	* Key at 5
9MN8 *	Triode-3	1	1	10	19	8	---	---	6	8	5	* Key at 0
9MP12		1	3	8	18	8	---	6	5	1	3 - 4	
9RA6		3	4	10	20	9	7	---	9	2	4 - 5	Must show short on 2 - 7; Grid short test - Depress 2 - 7 together
9RAL1	Triode-1	1	4	14	15	9	---	---	6	7	4 - 5	Must show short on 2 - 3
9RAL1	Triode-2	1	4	0	10	9	3	---	1	2	4 - 5	
9RAL1	Triode-1	1	4	14	15	9	---	---	6	7	4 - 5	Must show short on 2 - 3
9RAL1	Triode-2	1	4	0	10	9	3	---	1	2	4 - 5	
9RHH2	Triode	1	4	25	10	9	---	---	1	9	4 - 5	
9RHH2	Pentode	1	4	18	21	9	---	3	6	2	4 - 5	
9RHR2	Triode	1	4	25	10	9	---	---	1	9	4 - 5	
9RHR2	Pentode	1	4	18	21	9	---	3	6	2	4 - 5	
9V9	Triode	5	5	8	10	9	---	---	11	8	5 - 6	
9V9	Pentode	5	5	5	21	9	---	4	7	3	5 - 6	
10AF11 *	Triode-1	2	1	19	21	9	---	---	8	6	1 - 12	* Key at 0
10AF11 *	Triode-2	2	1	19	23	9	---	---	4	3	1 - 12	
10AF11 *	Pentode	2	6	5	21	9	---	2	7	3	4 - 6	* Key at 5
10AL11	Pent-1	4	1	17	10	9	---	9	8	5	1 - 3	Key at 2; Use red grid cap
10AL11	Pent-2	4	5	2	10	9	---	3	4	1	5 - 7	Key at 6
10CW5		1	4	0	10	9	1-6-8	9	7	2	4 - 5	May show short on 1 - 2 - 6 - 7 - 8 - 9
10DX8	Triode	1	4	31	10	9	---	---	2	1	4 - 5	
10DX8	Pentode	1	4	26	11	9	---	9	6	8	4 - 5	
10EM7	Triode-1	4	7	12	10	9	---	---	5	4	7 - 8	
10EM7	Triode-2	2	7	0	8	9	---	---	2	1	7 - 8	
10FD12	Pentode	1	4	21	17	11	---	1	6	2	4 - 5	
10FD12	Diode-1	3	4	0	20	11	---	---	7	---	4 - 5	
10FD12	Diode-2	3	4	0	20	11	---	---	8	---	4 - 5	
10FG7	Triode-1	5	4	27	10	9	---	---	8	9	4 - 5	? Maybe 10GF7
10FG7	Triode-2	2	4	2	10	7	---	---	6	2	4 - 5	
10FR7	Triode-1	4	4	10	13	9	---	---	6	7	4 - 5	Must show short on 2 - 3

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
10FR7	Triode-2	2	4	5	6	9	2	---	1	3	4 - 5	
10GF7	Triode-1	5	4	27	10	9	---	---	8	9	4 - 5	? Maybe 10FG7
10GF7	Triode-2	2	4	2	10	7	---	---	6	2	4 - 5	
10GH8	Triode	1	4	25	10	9	---	---	1	9	4 - 5	
10GH8	Pentode	1	4	18	21	9	---	3	6	2	4 - 5	
10GK6		1	4	21	10	9	---	8	7	2	4 - 5	Must show short on 3 - 9
10GN8	Triode	4	4	9	10	9	---	---	3	2	4 - 5	
10GN8	Pentode	1	4	18	10	9	---	8	9	7	4 - 5	
10GV8	Triode	2	4	34	10	8	---	---	1	2	4 - 5	
10GV8	Pentode	2	4	7	10	8	---	7	6	9	4 - 5	
10HA6		5	4	6	9	9	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
10HF8	Triode	2	4	36	10	9	---	---	3	2	4 - 5	
10HF8	Pentode	1	4	26	10	9	---	8	9	7	4 - 5	
10JA5	*	1	1	5	5	9	12	5	8	4	3	* Key at 2; Must show short on 5 - 6 - 12; Use red grid cap
10JA8	Triode	2	4	35	10	9	---	---	3	2	4 - 5	
10JA8	Tetrode	2	4	12	15	9	---	8	9	7	4 - 5	
10JT8	Triode	4	4	10	9	9	---	---	3	2	4 - 5	
10JT8	Pentode	1	4	0	17	9	---	8	9	7	4 - 5	
10JY8	Triode	5	4	13	9	9	---	---	3	2	4 - 5	
10JY8	Pentode	1	4	24	9	9	---	8	9	7	4 - 5	
10KR8	Triode	1	4	7	13	9	---	---	3	2	4 - 5	
10KR8	Pentode	1	4	5	11	9	---	8	9	7	4 - 5	
10KU8	Diode-1	3	4	---	24	9	2	---	3	---	4 - 5	
10KU8	Diode-2	3	4	---	24	9	3	---	2	---	4 - 5	
10KU8	Pentode	1	4	9	8	9	---	8	9	7	4 - 5	
10L14	Triode-1	1	4	25	11	12	---	---	6	7	4 - 5	
10L14	Triode-2	1	4	25	11	12	---	---	1	2	4 - 5	
10LB8	Triode	5	4	18	10	9	---	---	3	2	4 - 5	
10LB8	Pentode	2	4	7	18	9	---	8	9	7	4 - 5	
10LD6		1	4	5	15	9	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
10LD12	Triode	1	4	35	12	12	---	---	9	8	4 - 5	
10LD12	Diode-1	3	4	0	25	12	---	---	6	---	4 - 5	
10LD12	Diode-2	3	4	0	17	12	---	---	2	---	4 - 5	
10LD12	Diode-3	3	4	0	17	12	---	---	1	---	4 - 5	
10LD13	Triode	1	4	34	10	10	---	---	1	2	4 - 5	May show short on 7 - 8
10LD13	Diode-1	3	4	0	25	10	---	---	8	---	4 - 5	
10LD13	Diode-2	3	4	0	25	10	---	---	6	---	4 - 5	
10LE8	Pent-1	5	4	0	27	9	---	8	1	9	4 - 5	
10LE8	Pent-2	5	4	0	33	9	---	8	6	9	4 - 5	
10LM8	Triode	1	4	24	10	9	---	---	1	9	4 - 5	
10LM8	Pentode	4	4	3	12	7	---	3	6	2	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA													
TUBE	SECTION	LEVER										FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z			
10LW8	Triode	5	4	10	16	9	---	---	3	2		4 - 5	
10LW8	Pentode	5	4	0	14	9	---	8	9	7		4 - 5	
10LY8	Triode	2	4	25	25	9	---	---	3	2		4 - 5	
10LY8	Pentode	1	4	7	12	9	---	8	9	7		4 - 5	
10LZ8	Triode	5	4	15	15	9	---	---	3	2		4 - 5	
10LZ8	Pentode	1	4	9	16	9	---	8	9	7		4 - 5	
10P18		1	4	5	9	13	1 - 6 - 8	9	7	2		4 - 5	Fil Cont - Set control "E" at 12; May show short on 1 - 2 - 6 - 8 - 9
10T10		4	1	15	11	9	---	6	7	3		1 - 12	Key at 0; Use red grid cap
10T10		5	7	10	10	9	---	3	4	1		5 - 7	Key at 6
10Z10 *	Pent-1	1	5	21	11	9	---	8	2	4		5 - 7	* Key at 6; Use red grid cap
10Z10 *	Pent-2	1	1	0	25	9	---	---	4 - 6	---		5 - 7	* Key at 0
11AF9	Pent-1	1	5	7	11	9	---	9	11	8		5 - 6	May show short on 2
11AF9	Pent-2	1	5	15	16	9	---	3	4	1		5 - 6	
11AR11	Pent-2	1	3	7	30	9	---	5	4	7		3 - 1	Key at 2; Use red grid cap
11AR11	Pent-1	1	9	7	30	9	---	4	3	5		9 - 7	
11BM8	Triode	1	4	31	11	9	---	---	9	1		4 - 5	
11BM8	Pentode	1	4	10	12	9	---	7	6	3		4 - 5	
11BN11	Pent-1	5	6	0	28	9	---	3	5	1		6 - 8	Key at 7
11BN11	Pent-2	5	1	0	28	9	---	6	7	5		6 - 8	Key at 2
11BQ11	Pent-2	1	3	14	23	9	---	5	4	7		1 - 3	Key at 2
11BQ11	Pent-1	1	9	14	23	9	---	4	3	5		1 - 3	Key at 8
11BT11	Triode-1	4	1	5	6	9	---	---	9	7		1 - 3	Key at 2
11BT11	Triode-2	5	4	10	11	9	---	---	1	8		1 - 3	Key at 5
11BT11	Pentode	5	5	0	7	9	---	3	8	4		1 - 3	Key at 6
11CA11	Triode-2	3	1	8	26	9	---	---	2	3		11	Key at 0; May show short on 7
11CA11	Triode-1	3	1	8	24	9	---	---	4	6		11	
11CA11	Pentode	3	7	3	23	9	---	5	6	3		9	Key at 8
11CF11 *	Pentode	1	1	12	12	9	---	4	3	5		11	* Key at 0
11CF11 *	Diode-1	1	6	15	15	9	---	---	7	3		11	* Key at 5
11CF11 *	Diode-2	1	7	15	17	9	---	---	3	2		11	* Key at 6
11CH11 *	Triode-1	4	1	5	9	9	---	---	9	7		1 - 3	* Key at 2
11CH11 *	Triode-2	5	4	10	15	9	---	---	1	8		1 - 3	* Key at 5
11CH11 *	Pentode	5	5	10	13	9	---	---	8	4		1 - 3	* Key at 6
11CY7	Triode-1	2	9	20	30	9	---	---	6	7		4 - 5	May show short on 2 - 3
11CY7	Triode-2	2	9	20	5	9	2	---	1	3		4 - 5	
11DS5		1	3	13	14	9	1	6	5	7		3 - 4	Must show short on 1 - 7; Grid short test - Depress 1 - 7 together
11FY7	Triode-1	4	4	15	10	9	---	---	3	2		4 - 5	Key at 5; Use red grid cap
11FY7	Triode-2	1	1	0	9	9	---	---	7	5		4 - 5	Key at 2
11HM7		1	6	9	9	6	---	8	7	2		4 - 5 - 6	Must show short on 3 - 9
11KV8	Triode	1	4	31	10	9	---	---	3	2		4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
11KV8	Pentode	1	4	9	9	9	---	8	9	7	4 - 5	
11LQ8	Triode	5	4	8	11	9	---	---	3	2	4 - 5	
11LQ8	Pentode	1	4	7	11	9	---	---	3	2	4 - 5	
11LT8	Diode-1	3	4	0	15	9	---	---	8	---	4 - 5	May show short on 1
11LT8	Diode-2	3	4	0	15	9	---	---	6	---	4 - 5	
11LT8	Pentode	5	4	0	22	9	---	2	3	9	4 - 5	
11LY6		3	4	8	28	9	---	8	7	2	5	Must show short on 3 - 9; Grid-3 short test - Depress 3 - 9 together
11MS8	Triode	2	4	34	10	9	---	---	1	2	4 - 5	
11MS8	Pentode	2	4	7	7	9	---	7	6	9	4 - 5	
11R3		3	4	0	16	9	2	---	9	---	4 - 5	May show short on all pins
11Y9	Pent-1	1	5	7	11	9	---	9	11	8	5 - 6	
11Y9	Pent-2	1	5	15	16	9	---	3	4	1	5 - 6	
12AC10 *	Triode-1	1	4	14	18	10	---	---	2	1	4 - 6	* Key at 5
12AC10 *	Triode-2	3	1	13	27	10	---	---	5	7	4 - 6	* Key at 0
12AC10 *	Triode-3	5	2	14	15	10	---	---	5	1	4 - 6	* Key at 3
12AE10	Pent-1	4	1	10	17	10	---	6	7	3	1 - 12	Key at 0; Use red grid cap
12AE10	Pent-2	5	7	0	9	10	---	3	4	1	5 - 6	Key at 6
12AF4		2	3	24	11	10	1 - 2	---	7	6	3 - 4	Must show short on 1 - 2 - 6 - 7
12AF11 *	Triode-1	2	1	19	21	10	---	---	8	6	1 - 12	* Key at 0; Use red grid cap
12AF11 *	Triode-2	2	1	19	23	10	---	---	4	3	1 - 12	
12AF11 *	Pentode	2	6	5	21	10	---	2	7	3	1 - 12	* Key at 5
12AJ7	Triode	5	4	11	12	10	---	---	8	9	4 - 5	
12AJ7	Heptode	5	4	9	15	10	---	1	6	2	4 - 5	
12AL11	Pent-1	4	1	17	10	10	---	9	8	5	1 - 3	Key at 2; Use red grid cap
12AL11	Pent-2	4	5	2	10	10	---	3	4	1	5 - 7	Key at 6
12AU8	Pentode	2	4	8	24	10	---	8	9	7	4 - 5	
12AU8	Triode	2	4	15	25	10	---	---	3	2	4 - 5	
12AW6		1	3	7	33	10	---	6	5	1	3 - 4	
12AX3		1	4	0	4	10	2	---	9	---	4 - 6	Key at 5; Must show short on 2 - 9; Use red grid cap
12AX12		1	3	16	17	7	---	6	5	1	4 - 6	
12AY3		1	4	0	4	10	2	---	7	---	4 - 5	Must show short on 2 - 7
12BB14	*	5	4	0	5	10	2 - 7	6	11	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cap goes to top of tube
12BE3		3	1	0	16	10	12	---	6	---	1 - 3	Key at 2; Must show short on 6 - 12; Use red grid cap
12BF11	Sect-1	4	1	23	15	10	---	6	7	3	1 - 12	Key at 0; Use red grid cap
12BF11	Sect-2	1	7	7	10	10	---	5	6	3	7 - 9	Key at 8
12BR3		3	4	0	15	10	2	---	9	---	4 - 5	May show short on 2 - 9
12BS3		3	4	0	15	10	7	---	2	---	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
12BT3		3	1	0	17	10	---	---	4	---	1 - 12	Key at 0; Use red grid cap
12BT6	Triode	1	3	12	29	10	---	---	7	1	3 - 4	
12BT6	Diode-1	3	3	0	25	10	---	---	5	---	3 - 4	
12BT6	Diode-2	3	3	0	25	10	---	---	6	---	3 - 4	
12BV11	Pent-1	4	6	9	15	10	---	3	4	1	6 - 8	Key at 7
12BV11	Pent-2	4	1	9	15	10	---	6	5	8	6 - 8	Key at 2
12CA4		2	4	0	1	10	---	---	1	---	4 - 5	
12CA4		2	4	0	1	10	---	---	7	---	4 - 5	
12CK3		1	4	0	4	10	2	---	7	---	4 - 5	Must show short on 2 - 7
12CL3		3	4	0	16	10	2	---	7	---	4 - 5	Must show short on 2 - 7
12CT3		3	4	0	17	10	2	---	6	---	4 - 5	Must show short on 2 - 6
12DA6		1	4	20	25	10	---	8	7	2	4 - 5	Must show short on 1 - 6
12DK6		1	3	6	29	10	---	6	5	1	3 - 4	
12DM4		1	7	---	4	10	---	---	5	---	7 - 8	
12DM7	Triode-1	1	9	12	32	7	---	---	6	7	4 - 5 - 9	
12DM7	Triode-2	1	9	12	32	7	---	---	1	2	4 - 5 - 9	
12DQ4		3	7	0	15	10	---	---	5	---	7 - 8	
12DQ6		1	2	0	4	10	---	4	11	5	2 - 7	
12DT7	Triode-1	1	9	12	32	7	---	---	6	7	4 - 5 - 9	
12DT7	Triode-2	1	9	12	32	7	---	---	1	2	4 - 5 - 9	
12DW4		3	4	-	16	10	7	---	2	---	4 - 5	May show short on 2 - 7
12DZ7	Pent-1	1	2	17	10	10	---	4	6	5	2 - 7	
12DZ7	Pent-2	1	2	15	10	10	---	4	3	1	2 - 7	
12DZ8	Triode	1	4	20	18	10	---	---	9	1	4 - 5	
12DZ8	Pentode	2	4	7	12	10	---	7	6	3	4 - 5	
12E13		1	2	9	9	7	---	4	3	5	2 - 7	
12FQ7	Triode-1	1	4	19	14	10	---	---	6	7	4 - 5	
12FQ7	Triode-2	1	4	19	14	10	---	---	1	2	4 - 5	
12FS5		4	3	20	33	10	---	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
12FV7	Triode-1	2	5	17	10	10	---	---	6	7	4 - 5 - 9	
12FV7	Triode-2	2	5	17	10	10	---	---	1	2	4 - 5 - 9	
12FX5		2	3	13	9	10	5	6	7	2	3 - 4	Must show short on 2 - 5
12G11	Pent-1	2	7	4	5	10	---	3	4	1	5 - 7	Key at 6
12G11	Pent-2	3	1	11	23	10	---	9	8	5 - 6	5 - 7	Key at 2
12GB3		3	2	0	17	10	---	4	11	5	2 - 7	
12GB7		2	2	7	10	10	---	4	11	5	2 - 7	
12GC5		1	4	7	7	10	1 - 3	8	9	6	4 - 5	Must show short on 1 - 3 - 6 - 8
12GE5		5	6	7	7	10	8 - 9	---	7 - 12	3	4 - 6	Key at 5; Must show short on 2 - 3 - 8 - 9; Red grid cap goes to adapter stud; Cathode short test - Depress 2 - 9 together

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
TUBE	SECTION	LEVER									FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z		
12GJ5		1	4	2	5	10	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Use red grid cap
12GK17		2	7	0	3	10	---	---	5	---	7 - 8	
12GN7		1	6	8	10	7	---	8	7	2	4 - 5 - 6	Must show short on 3 - 9
12GT5		2	4	6	7	10	1 - 2	7	9	6	4 - 5	Must show short on 1 - 2 - 6 - 7
12GV5	*	2	5	1	9	10	2	7	12	9	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8; Use red grid cap; Cathode short test - Depress 1 - 8 together
12GW6		3	2	0	17	10	---	4	11	5	2 - 7	
12HB25	*	5	4	0	5	10	2 - 7	6	11	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cap goes to top of tube
12HE7	Diode	3	1	0	15	10	---	---	2	---	1 - 11	
12HE7	Pentode *	5	6	0	5	10	4	5	11	3	6 - 8	Key at 7; * CAUTION: Throw lever #4 to "W" position before inserting tube
12HG7		1	6	7	10	7	---	8	7	2	4 - 5 - 6	Must show short on 3 - 9
12HL5		5	4	0	6	10	1	9	7	2	4 - 5	Must show short on 1 - 2
12HL7		1	6	5	10	7	---	8	7	2	4 - 5 - 6	Must show short on 3 - 9
12HU8	Pent-1	5	4	6	8	10	---	1	3	2	4 - 5	
12HU8	Pent-2	5	4	6	8	10	---	9	8	6	4 - 5	
12JB6		2	4	1	6	10	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
12JF5	*	3	4	10	35	10	8 - 9	7	11	3	6	* Key at 5; Must show short on 2 - 3 - 8 - 9; Grid-1 short test - Depress 3 - 8 together; Cathode short test - Depress 2 - 9 together; Black grid cap goes to top of tube
12JM6	*	5	2	0	5	10	---	6	11	8	2 - 4	
12JN6		1	4	0	5	10	---	8	11	3	4 - 6	Must show short on 2 - 9
12JN8	Triode	2	4	15	18	10	---	---	2	1	4 - 5	
12JN8	Pentode	1	4	15	22	10	---	7	6	9	4 - 5	
12JQ6	Pentode	1	4	10	5	10	2 - 7	3	1	8	4 - 5	
12JQ6	Diode	3	4	0	22	10	---	---	6	---	4 - 5	
12JS6		5	4	0	6	10	1	6	11	8	2 - 4	Must show short on 1 - 6; Black cap goes to top of tube
12JT6		1	4	2	5	10	1	7	9	2	4 - 5	Must show short on 1 - 7
12JZ8	Pentode	2	7	7	7	10	1	3	12	2	7 - 9	Key at 8; Must show short on 1 - 2
12JZ8	Triode	2	4	30	10	10	---	---	7	2	4 - 6	Key at 5; Use red grid cap
12KA8	Pentode	4	4	2	10	10	---	---	1	2	4 - 5	
12KA8	Pentode	4	4	15	10	10	---	8	9	6	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
12KG6	*	1	4	8	26	10	1 - 2 - 3	7	11	8	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cap goes to top of tube
12KL8	Pentode	4	4	13	10	10	---	6	7	2	4 - 5	
12KL8	Diode	3	4	0	27	10	---	---	8	---	4 - 5	
12MD8	Triode-1	1	4	11	10	10	---	---	3	6	4 - 5	
12MD8	Triode-2	1	4	11	10	10	---	---	2	8	4 - 5	
12MD8	Triode-3	1	4	11	10	10	---	---	1	9	4 - 5	
12ML8		1	4	12	16	10	---	---	3	6	4 - 5	
12ML8		1	4	12	16	10	---	---	2	8	4 - 5	
12ML8		1	4	12	16	10	---	---	1	9	4 - 5	
12MX8	Triode	1	4	12	24	10	---	---	8	9	4 - 5	
12MX8	Pentode	5	4	0	6	10	---	7	6	2	4 - 5	
12RK19		3	4	0	16	10	2	---	9	---	4 - 5	May show short on 2 - 6 - 7 - 9
12RLL3	Triode-1	5	9	14	12	7	---	---	6	7	4 - 5 - 9	
12RLL3	Triode-2	5	9	14	12	7	---	---	1	2	4 - 5 - 9	
12RLL5	Triode-1	1	4	19	14	10	---	---	6	7	4 - 5	
12RLL5	Triode-2	1	4	19	14	10	---	---	1	2	4 - 5	
12T10		4	1	15	11	10	---	6	7	3	1 - 12	Key at 0; Use red grid cap
12T10		5	7	10	10	10	---	3	4	1	1 - 12	Key at 6
13CM5		2	2	1	7	10	1	4	12	5	2 - 7	Must show short on 1 - 3 - 4 - 8; Use red grid cap; Cathode short test - Depress 3 - 8 together
13CW4		5	4	9	10	10	---	---	1	2	4 - 5	
13CW9		1	2	21	11	7	---	8	6	3	4 - 5	
13DR7	Triode-1	1	4	20	25	10	---	---	6	7	4 - 5	Must show short on 2 - 3
13DR7	Triode-2	2	4	21	5	10	2	---	1	3	4 - 5	
13FM7		4	5	0	23	10	1	---	4	9	5 - 7	Key at 6; Must show short on 1 - 9
13FM7		2	3	0	10	10	---	---	7	5	1 - 3	Key at 2; Use red grid cap
13FR7	Triode-1	4	4	10	13	10	---	---	6	7	4 - 5	Must show short on 2 - 3
13FR7	Triode-2	2	4	5	6	10	2	---	1	3	4 - 5	
13GB5	*	3	4	2	16	10	2 - 7 - 8	6	12	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cathode short test - Depress 3 - 8 together; Red grid cap goes to top of tube
13GF7	Triode-1	5	4	27	10	10	---	---	8	9	4 - 5	
13GF7	Triode-2	2	4	2	10	10	---	---	6	2	4 - 5	
13J10	Pent-1	1	5	21	11	10	---	8	2	4	5 - 7	Key at 6; Use red grid cap
13J10	Pent-2	1	1	0	25	10	---	---	4 - 6	---	1 - 12	Key at 0
13JT8	Triode	4	4	10	9	10	---	---	3	2	4 - 5	
13JT8	Pentode	1	4	0	17	10	---	8	9	7	4 - 5	
13JZ8 *	Pentode	2	1	4	10	10	7	8	4	6	11	* Key at 0; Must show short on 6 - 7

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
13JZ8 *	Triode	3	3	14	23	10	---	---	6	1	11	* Key at 4
13V10	Pent-1	4	1	10	21	10	---	6	7	3	1 - 11	Key at 0
13V10	Pent-2	1	7	10	10	---?	5?	6?	3?	?	1 - 11	Key at 8
13Z10	Pent-1	1	5	21	11	10	---	8	2	4	5 - 7	Key at 6; Use red grid cap
13Z10	Pent-2	1	1	0	25	10	---	---	4 - 6	---	1 - 12	Key at 0
14BF11	Sect-1	4	1	23	15	10	---	6	7	3	1 - 12	Key at 0
14BF11	Sect-2	1	7	7	10	10	---	5	6	3	7 - 9	Key at 8
14BL11	Triode-1	1	1	13	17	10	---	---	7	5	1 - 11	Key at 0
14BL11	Triode-2	5	4	10	13	10	---	---	1	8	1 - 11	Key at 5
14BL11	Pentode	1	6	10	12	10	---	4	9	5	1 - 11	Key at 7
14BQ11	Pent-2	1	3	14	23	10	---	5	4	7	1 - 3	Key at 2
14BQ11	Pent-1	1	9	14	23	10	---	4	3	5	1 - 3	Key at 8
14BR11	Triode-1	4	1	5	7	10	---	---	6	8	1 - 11	Key at 0
14BR11	Triode-2	4	4	5	7	10	---	---	1	2	1 - 11	Key at 5
14BR11	Pentode	4	4	5	6	10	---	8	3	7	1 - 11	
14GW8	Triode	4	4	15	10	10	---	---	9	1	4 - 5	
14GW8	Pentode	1	4	19	10	10	---	3	6	8	4 - 5	
14JG8	Diode-1	3	4	0	16	10	---	---	2	---	4 - 5	
14JG8	Diode-2	3	4	0	17	10	---	---	6	---	4 - 5	
14JG8	Triode	2	4	35	10	10	---	---	9	8	4 - 5	
15A6		4	4	3	10	10	---	1	7	2	4 - 5	
15AF11	Pentode	4	8	2	10	10	---	4	9	5	6 - 8	Key at 7; Use red grid cap
15AF11	Diode-1	4	1	2	10	10	---	---	6	5	1 - 3	Key at 2
15AF11	Diode-2	4	1	2	10	10	---	---	8	6	1 - 12	Key at 0
15BD11	Triode-1	4	1	2	10	10	---	---	8	6	1 - 12	Key at 0; Use red grid cap
15BD11	Triode-2	4	1	2	10	10	---	---	4	3	1 - 12	
15BD11	Pentode	4	4	3	10	10	---	2	7	3	4 - 6	Key at 5
15CW5		1	4	0	9	10	1 - 6 - 8	9	7	2	4 - 5	May show short on 1 - 2 - 6 - 7 - 8 - 9
15DQ8	Triode	1	4	26	10	10	---	---	2	1	4 - 5	
15DQ8	Pentode	1	4	15	13	10	---	9	6	8	4 - 5	
15EW7	Triode-1	5	4	17	10	10	---	---	6	7	4 - 5	Must show short on 2 - 3
15EW7	Triode-2	2	4	1	10	10	3	---	1	2	4 - 5	
15FM7	Triode-1	4	5	0	23	10	1	---	4	9	5 - 7	Key at 6; Must show short on 1 - 9
15FM7	Triode-2	2	3	0	10	10	---	---	7	5	1 - 3	Key at 2; Use red grid cap
15FO7		8	2	13	14	7	6	3	1	4	2 - 7 - 9	
15FY7	Triode-1	4	4	15	10	10	---	---	3	2	4 - 6	Key at 5
15FY7	Triode-2	1	1	0	9	10	---	---	7	5	1 - 3	Key at 2
15HA6		5	4	6	9	10	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
15HB6		2	4	5	16	10	6	8	7	2	4 - 5	May show short on 3 - 6 - 8 - 9
15KY8	Triode	1	4	12	24	10	---	---	8	9	4 - 5	
15KY8	Pentode	5	4	0	6	10	---	7	6	2	4 - 5	
15LE8	Pent-1	5	4	0	27	10	---	8	1	9	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
15LE8	Pent-2	5	4	0	33	10	---	8	6	9	4 - 5	
15MF8 *	Pentode	2	7	5	17	10	1	3	12	2	7 - 9	* Key at 8; Must show short on 1 - 2
15MF8 *	Triode	2	4	8	30	10	---	---	7	2	4 - 6	* Key at 5; Use red grid cap
15MX8	Triode	1	4	12	24	10	---	---	8	9	5	
15MX8	Pentode	5	4	0	6	10	---	7	6	2	5	
16A		1	3	31	10	7	---	7	5	1	3 - 4	
16A5		1	4	7	7	11	---	9	7	2	4 - 5	
16A8	Triode	1	4	12	27	10	---	---	9	1	4 - 5	
16A8	Pentode	1	4	10	9	10	---	7	6	3	4 - 5	
16AK9	Pentode	2	1	31	14	7	---	---	6	5	1 - 7 - 9	Key at 8
16AK9	Triode-2	2	1	27	13	7	---	---	4	3	1 - 7 - 9	
16AK9	Triode-1	2	6	31	13	7	---	---	2	3	1 - 6 - 11	Key at 0
16AQ3		1	4	0	4	10	#	---	9	---	4 - 5	# W=1 - 2 - 3 - 6 - 7 - 8; May show short on all pins
16BQ11	Pent-1	1	3	15	25	10	---	5	4	7	1 - 3	Key at 2
16BQ11	Pent-2	1	9	14	25	10	---	4	3	5	1 - 3	Key at 8
16BX11	Triode-1	2	1	28	19	10	---	---	7	8	1 - 12	Key at 0
16BX11	Triode-2	2	1	28	19	10	---	---	6	5	1 - 12	
16BX11	Pentode	1	5	14	25	10	---	7	2	6	1 - 12	Key at 4; Use red grid cap
16CB28 *		3	3	3	19	10	2	7	11	9	3 - 5	* Key at 4; Must show short on 2 - 7
16GK6		1	4	10	10	11	---	8	7	2	4 - 5	Must show short on 3 - 9
16GY5		3	3	3	15	10	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Cathode short test - Depress 1 - 8 together; Black grid cap goes to top of tube
16HB5	*	3	1	3	17	10	---	2	7	3	1 - 12	* Key at 0; Use red grid cap
16KA6		5	3	0	6	10	---	7	11	9	3 - 5	Key at 4; Must show short on 2 - 8; Black cap goes to top of tube
16KH8		3	4	35	20	10	---	---	1 - 9	2	4 - 5	
16KH8		1	4	23	15	10	---	9	3	2	4 - 5	
16KH8		1	4	23	15	10	---	9	8	6	4 - 5	
16LD6		1	4	5	15	10	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
16LU8	*	2	4	13	19	10	---	---	7	2	4 - 6	* Key at 5; Use red grid cap
16LU8	*	2	7	5	5	10	1	3	12	2	4 - 6	* Key at 8; Must show short on 1 - 2
16MY8 *	Triode	2	4	13	19	10	---	---	7	2	4 - 6	* Key at 5; Use red grid cap; Must show short on 1 - 2
16MY8 *	Pentode	2	7	5	5	10	1	3	12	2	4 - 6	* Key at 8
16Y9	Pent-1	1	5	7	11	11	---	9	11	8	5 - 6	
16Y9	Pent-2	1	5	15	16	11	---	3	4	1	5 - 6	
17A8	Triode	1	4	13	10	11	---	---	1	9	4 - 5	
17A8	Pentode	1	4	30	15	11	---	3	6	2	4 - 5	
17AB10	Pent-1	1	5	5	6	11	---	8	2	4	5 - 7	Key at 6

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
TUBE	SECTION	LEVER									FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z		
17AB10	?	4	1	0	6	11	---	---	4 - 6	---	5 - 7	Key at 0
17AX3		1	4	0	4	11	2	---	9	---	4 - 6	Key at 5; Must show short on 2 - 9; Use red grid cap
17AY3		1	4	0	4	11	2	---	7	---	4 - 5	Must show short on 2 - 7
17B4		1	2	40	4	11	---	---	3	5	2 - 7	
17BB14	*	5	4	0	5	11	2 - 7	6	11	1	4 - 5	* Must use magnoval adapter; Cap goes to top of tube; Must show short on 1 - 2 - 3 - 6 - 7 - 8
17BD11	Triode-2	4	1	2	10	11	---	---	4	3	1 - 12	Key at 0; Use red grid cap
17BD11	Triode-1	4	1	2	10	11	---	---	8	6	1 - 12	
17BD11	Pentode	4	4	3	10	11	---	2	7	3	4 - 6	Key at 5
17BE3		3	1	0	16	11	12	---	6	---	1 - 3	Key at 2; Must show short on 6 - 12; Use red grid cap
17BF11	Pent-1	4	1	21	15	11	---	6	7	3	1 - 12	Key at 0; Use red grid cap
17BF11	Pent-2	1	7	5	10	11	---	5	6	3	7 - 9	Key at 8
17BH3		1	4	0	4	11	2	---	7	---	4 - 5	Must show short on 2 - 7; Use red grid cap
17BJ6		4	3	10	10	11	---	6	5	1	3 - 4	
17BR3		1	4	0	4	11	2	---	9	---	4 - 5	Will show short on 2 - 9
17BS3		3	4	0	15	10	7	---	2	---	4 - 5	Must show short on 2 - 7
17BW3		3	1	0	15	11	---	---	4	---	1 - 11	Key at 0
17BZ3		3	1	0	15	11	---	---	4	---	1 - 11	Key at 0
17C9	Tetrode-1	4	4	5	9	10	---	8	9	7	4 - 5	Use red grid cap
17C9	Tetrode-2	3	4	9	23	10	---	2	3	1	4 - 5	
17CK3		1	4	0	4	11	2	---	7	---	4 - 5	Must show short on 2 - 7
17CL3		3	4	0	16	11	2	---	7	---	4 - 5	Must show short on 2 - 7
17CT3		3	4	0	17	10	2	---	6	---	4 - 5	Must show short on 2 - 6
17DM4		1	7	---	4	11	---	---	5	---	7 - 8	
17DQ4		3	7	0	15	11	---	---	5	---	7 - 8	
17DQ6		1	2	0	4	11	---	4	11	5	2 - 7	
17DW4		3	4	0	16	11	7	---	2	---	4 - 5	Must show short on 2 - 7
17EW8	Triode-1	1	5	21	13	11	---	---	6	7	4 - 5	
17EW8	Triode-2	1	5	21	13	11	---	---	1	2	4 - 5	
17FY7	Triode-1	4	4	15	10	11	---	---	3	2	4 - 6	Key at 5
17FY7	Triode-2	1	1	0	9	11	---	---	7	5	4 - 6	Key at 2
17GE5		5	6	7	7	11	8 - 9	7	12	3	4 - 6	Key at 5; Must show short on 2 - 3 - 8 - 9; Use red grid cap; Cathode short test - Depress 2 - 9 together
17GJ5		1	4	2	5	11	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Use red grid cap
17GT5		2	4	6	7	11	1 - 2	7	9	6	4 - 5	Must show short on 1 - 2 - 6 - 7
17GT6		3	9	0	12	11	---	---	6	1	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
TUBE	SECTION	LEVER									FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z		
17GV5		2	5	1	9	11	2	7	12	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Red grid cap goes to top of tube; Cathode short test - Depress 1 - 8 together
17GW6		3	2	0	17	10	---	4	11	5	2 - 7	
17GY5		3	3	3	15	11	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Cathode short test - Depress 1 - 8 together; Black grid cap goes to top of tube
17HB25	*	5	4	0	5	11	2 - 7	6	11	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cap goes to top of tube
17HC8	Triode	4	4	10	10	10	---	---	9	1	4 - 5	
17HC8	Pentode	1	4	15	10	10	---	7	6	3	4 - 5	
17HG8	Triode	1	4	5	10	11	---	---	7	6	4 - 5	May show short on 1 - 3; Cathode short test - Depress 1 - 3 together
17HG8	Pentode	1	4	7	25	11	---	9	8	2	4 - 5	
17JB6		2	4	1	6	11	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
17JF6		5	4	0	6	10	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red cap goes to top of tube
17JG6		1	4	10	28	10	1	6	9	2	4 - 5	Must show short on 1 - 7
17JK8	Triode-1	1	4	23	10	10	---	---	6	7	4 - 5	
17JK8	Triode-2	1	4	15	10	10	---	---	1	2	4 - 5	
17JM6		5	2	0	5	11	---	6	11	8	2 - 4	Key at 3; Black cap goes to top of tube
17JN6		1	4	0	5	11	---	8	11	3	4 - 6	Key at 5; Must show short on 2 - 9
17JQ6	Pentode	1	4	10	5	11	2 - 7	3	1	8	4 - 5	
17JQ6	Diode	3	4	0	22	11	---	---	6	---	4 - 5	
17JR6		4	4	5	20	11	1	6	9	2	4 - 5	Must show short on 1 - 7
17JS6		5	4	0	6	11	1	6	11	8	2 - 4	Key at 3; Black cap goes to top of tube; Must show short on 1 - 6
17JT6		1	4	2	5	11	1	7	9	2	4 - 5	Must show short on 1 - 7
17JZ8	Pentode	2	7	7	7	11	1	3	12	2	7 - 9	Key at 8; Must show short on 1 - 2; Use red grid cap
17JZ8	Triode	2	4	30	10	11	---	---	7	2	4 - 6	Key at 5
17KV6		5	4	0	5	10	1	7	9	2	4 - 5	Must show short on 1 - 7
17LD8	Triode	5	4	10	16	11	---	---	8	9	4 - 5	
17LD8	Pentode	5	4	0	5	11	---	7	6	2	4 - 5	
17RHH2	Triode-1	1	5	21	13	11	---	---	6	7	4 - 5	
17RHH2	Triode-2	1	5	21	13	11	---	---	1	2	4 - 5	
17RK19		1	4	0	4	11	2	---	9	---	4 - 5	
17W6		1	2	10	5	10	---	4	3	5	2 - 7	
17X10	Pent-1	5	4	0	6	11	---	7	1	3	4 - 6	Key at 5

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER												
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
17X10	Pent-2	4	1	0	42	11	---	6	4	7	4 - 6	Key at 0
17Y9	Pent-1	1	5	7	11	11	---	9	11	8	5 - 6	
17Y9	Pent-2	1	5	15	16	11	---	3	4	1	5 - 6	
18AJ10	Pent-2	3	1	5	35	11	---	8	9	5	3	Key at 2
18AJ10	Pent-1	3	5	5	24	11	---	3	4	1	7	Key at 6
18DZ8	Triode	1	4	20	18	11	---	---	9	1	4 - 5	
18DZ8	Pentode	2	4	7	12	11	---	7	6	3	4 - 5	
18GB5	*	3	4	2	16	11	2 - 7 - 8	6	12	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 -- 6 - 7 - 8; Cathode short test - Depress 3 - 8 together; Red grid cap goes to top of tube
18GD6		5	3	7	15	11	---	6	5	1	3 - 4	
18GV5		2	5	1	9	11	2	7	12	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Red grid cap goes to top of tube
18GV8	Triode	2	4	34	10	11	---	---	1	2	4 - 5	
18GV8	Pentode	2	4	7	10	11	---	7	6	9	4 - 5	
18RAL1	Triode-1	1	4	14	15	11	---	---	6	7	4 - 5	Must show short on 2 - 3
18RAL1	Triode-2	1	4	0	10	11	3	---	1	2	4 - 5	
19A3		3	6	0	20	7	---	---	5	---	3 - 4 - 6	
19AJ8	Heptode	1	4	26	32	11	---	1	6	2	4 - 5	
19AJ8	Triode	1	4	26	11	11	---	---	8	9	4 - 5	
19AQ5		1	3	32	8	11	1	6	5	7	3 - 4	Must show short on 1 - 7
19BR5	Triode	2	4	35	10	11	---	---	7	1	4 - 5	Must show short on 3 - 6 - 9
19BR5	Eye	1	4	0	0	11	---	---	7-3-6-9	?	4 - 5	See instructions for eye test
19BX6		1	4	8	28	11	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
19BY7		4	4	3	10	11	---	8	7	2	4 - 5	Must show short on 1 - 3; Cathode short test Depress 1 - 3 together
19CG3		5	1	0	5	11	---	---	4	---	1 - 11	Key at 0
19DE3	*	3	6	0	20	11	1	---	4	---	8	* Key at 7; Grid cap goes to top of tube
19DE7	Triode-1	1	4	20	14	11	---	---	6	7	4 - 5	Must show short on 2 - 3
19DE7	Triode-2	2	4	7	6	11	3	---	1	2	4 - 5	
19DK3		3	4	0	20	11	3 - 9	---	2 - 7	---	4 - 5	
19DQ3	*	5	1	0	6	11	---	---	4	---	1 - 11	* Key at 0
19EW7	Triode-1	5	4	17	10	11	---	---	6	7	4 - 5	Must show short on 2 - 3
19EW7	Triode-2	2	4	1	10	11	3	---	1	2	4 - 5	
19EZ8	Triode-1	1	4	33	10	11	---	---	8	9	4 - 5	
19EZ8	Triode-2	1	4	33	10	11	---	---	6	7	4 - 5	
19EZ8	Triode-3	1	4	31	10	11	---	---	3	2	4 - 5	
19FL8	Pentode	1	4	20	18	11	---	1	6	2	4 - 5	
19FL8	Diode-1	3	4	0	22	11	---	---	7	---	4 - 5	
19FL8	Diode-2	3	4	0	22	11	---	---	8	---	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
19FX5		2	3	13	9	11	5	6	7	2	3 - 4	Must show short on 2 - 5
19GQ7	Diode-1	3	4	0	15	11	---	---	8	---	4 - 5	
19GQ7	Diode-2	3	4	0	15	11	---	---	6	---	4 - 5	
19GQ7	Diode-3	3	4	0	15	11	---	---	2	---	4 - 5	
19HR6		4	3	6	10	11	---	6	5	1	3 - 4	
19HS6		1	3	15	19	11	---	6	5	1	4 - 5	
19JC6		1	4	5	24	11	3	8	7	2	4 - 5	Must show short on 1 - 2 - 6 - 7; Red cap goes to top of tube
19JN8	Pentode	1	4	15	22	11	---	7	6	9	4 - 5	
19JN8	Triode	2	4	15	18	11	---	---	2	1	4 - 5	
19KF6	*	5	4	0	5	11	1	6	9	7	4 - 5	* Must use magnoval adapter; Must show short on 1 - 7
19KG8	Triode	1	4	19	10	11	---	---	1	2	4 - 5	
19KG8	Pentode	4	4	8	10	11	---	7	6	9	4 - 5	
19MR9		5	3	7	15	11	---	6	5	1	3 - 4	
19Q9	Triode	5	4	9	10	11	---	---	9	8	4 - 5	
19Q9	Pentode	4	4	5	9	11	---	2	3	1	4 - 5	
19U3		1	4	0	4	10	---	---	9	---	4 - 5	
19W3		1	4	0	4	10	---	---	9	---	4 - 5	
19Y3		7	4	0	3	10	---	---	9	---	4 - 5	
20AQ3		1	4	0	4	11	#	---	9	---	4 - 5	# W = 1 - 2 - 3 - 6 - 7 - 8; May show short on all pins
20D4	Amp	1	4	14	31	7	---	1	6	2	4 - 5	
20D4	Osc	1	4	25	10	7	---	---	1	2	4 - 5	
20D4	Triode	1	4	25	13	7	---	---	8	9	4 - 5	
20EW7	Triode-1	5	4	17	10	11	---	---	6	7	4 - 5	Must show short on 2 - 3
20EW7	Triode-2	2	4	1	10	11	3	---	1	2	4 - 5	
20LF6	*	5	3	0	5	11	2	7	11	9	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
21A6		5	4	0	6	11	7	8	10	2	4 - 5	Must show short on 1 - 6 - 7 - 8 - 9
21AK6		1	3	32	10	11	---	6	5	1	3 - 4	
21EX6		1	2	0	4	11	---	8	11	15	2 - 7	
21GY5		3	3	3	15	11	2	7	11	9	3 - 5	Must show short on 1 - 2 - 7 - 8; Cathode short test - Depress 1 - 8 together; Black grid cap goes to top of tube
21HA6		5	4	6	9	11	2	---	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 1 - 7 together
21HB3		1	1	15	15	11	6	2	5	3	3 - 4	
21HB5		3	1	3	17	11	---	2	7	3	1 - 12	Key at 0; Use red grid cap
21HD5		5	1	0	5	11	9	5	7	3	1 - 11	Key at 0; Must show short on 5 - 9
21HJ5		1	1	0	4	11	9	5	7	3	1 - 11	Key at 0; Must show short on 5 - 9
21JS6	*	5	4	0	6	11	1	6	11	8	2 - 4	* Key at 3

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA													
TUBE	SECTION	LEVER										FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z			
21JV6		5	4	0	5	11	---	8	11	3		4 - 6	Key at 5; Must show short on 2 - 9
21JZ6		2	2	0	6	11	---	6	11	8		2 - 4	Key at 3; Black cap goes to top of tube
21KA6		5	3	0	6	11	---	7	11	9		3 - 5	Key at 4; Must show short on 2 - 8; Black cap goes to top of tube
21KQ6	*	5	4	0	5	11	6 - 8	3	11	1		4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cao goes to top of tube
21LG6		3	3	3	20	12	2	7	11	9		3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8
21LR8	Triode	5	4	8	14	11	---	---	8	9		4 - 5	
21LR8	Pentode	5	4	0	6	11	---	7	6	2		4 - 5	
21LU8	Triode	2	4	13	19	11	---	---	7	2		4 - 6	Key at 5; Use red grid cap
21LU8	Pentode	2	7	5	5	11	1	3	12	2		7 - 9	Key at 8; Must show short on 1 - 2
21MY8 *	Triode	2	4	13	19	11	---	---	7	2		4 - 6	* Key at 5; Must show short on 1 - 2; Use red grid cap
21MY8 *	Pentode	2	7	5	5	11	1	3	12	2		4 - 6	* Key at 8
22AL3		3	4	0	15	12	#	---	9	---		4 - 5	# Levers 1 - 2 - 3 - 6 - 7 - 8 must be thrown to "W"; May show short on 1 - 2 - 3 - 6 - 7 - 8 - 9
22BH3		1	4	0	4	12	2	---	7	---		4 - 5	Must show short on 2 - 7; Use red grid cap
22BW3		3	1	0	15	11	---	---	4	---		1 - 11	Key at 0
22JF6		5	4	0	6	11	1 - 2 - 9	7	12	6		4 - 5	Must show short on 1 - 2 - 6 - 7; Red cap goes to top of tube
22JG6		1	4	10	28	11	1	6	9	2		4 - 5	Must show short on 1 - 7
22JR6		4	4	5	20	11	1	6	9	2		4 - 5	Must show short on 1 - 7
22JS6		5	4	0	6	11	1	6	11	8		2 - 4	Key at 3; Must show short on 1 - 6; Black cap goes to top of tube
22JU6		1	4	7	32	11	6	1	12	2		4 - 5	Must show short on 1 - 2 - 6 - 7; Red grid cap goes to top of tube
22KM6		5	4	0	6	12	1 - 2	7	12	6		4 - 5	Must show short on 1 - 2 - 6 - 7; Red cap goes to top of tube
22KV6		5	4	0	7	11	1	7	9	2		4 - 5	Must show short on 1 - 7
23MB6	*	3	6	6	20	11	8 - 9	3	11	1		4	* Key at 5; Must show short on 2 - 3 - 8 - 9; Grid cap goes to top of tube
23Z9	Triode-1	5	4	8	20	11	---	---	7	8		4 - 6	Key at 5
23Z9	Triode-2	5	4	8	18	11	---	---	3	2		4 - 6	
23Z9	Pentode	5	6	0	7	11	---	3	11	2		4 - 6	Key at 7
24AX4		2	7	0	3	12	---	---	5	---		7 - 8	
24BF11	Pent-1	4	1	23	15	12	---	6	7	3		1 - 12	Key at 0; Use red grid cap
24BF11	Pent-2	1	7	7	10	12	---	5	6	3		1 - 12	Key at 8
24GA7	Diode	3	7	0	18	12	---	---	4	---		5 - 7	Key at 6; Must show short on 8 - 9
24GA7	Pentode	3	3	4	19	12	---	4 - 5	9	6		1 - 3	Key at 2; Must show short on 4 - 5

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
24JE6		3	4	0	17	12	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red cap goes to top of tube
24JZ8	Pentode	2	7	7	7	12	1	3	12	2	7 - 9	Key at 8; Must show short on 1 - 2
24JZ8		2	4	30	10	12	---	---	7	2	4 - 6	Key at 5; Use red grid cap
24LQ6		3	4	0	17	12	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red cap goes to top of tube
24LZ6		2	4	10	27	12	1 - 2	6	11	7	4 - 5	Must show short on 1 - 2 - 6 - 7
25BB14	*	5	4	0	5	12	2 - 7	6	11	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cap goes to top of tube
25CG3		3	1	0	15	12	---	---	4	---	1 - 11	Key at 0
25CK3		1	4	0	4	12	2	---	7	---	4 - 5	Must show short on 2 - 7
25CM3		3	4	0	17	12	2	---	7	---	4 - 5	Must show short on 2 - 7
25CT3		3	4	0	17	12	2	---	6	---	4 - 5	Must show short on 2 - 6
25DK3		3	4	0	20	12	3 - 9	---	2 - 7	---	4 - 5	
25DL3		3	4	0	17	12	*	---	7	---	4 - 5	* 2 - 3 - 6 - 8 - 9
25DQ6		1	2	0	4	12	---	4	11	5	2 - 7	
25DT5		1	4	13	11	12	3	1	9	6	4 - 5	Must show short on 3 - 6
25GB6		3	2	0	17	12	---	4	11	5	2 - 7	
25HX5	*	3	4	14	20	12	3 - 7	6	9	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 7; Grid short test - Depress 1 - 7 together; Cathode short test - Depress 2 - 3 together
25JQ6	Pentode	1	4	10	5	12	2 - 7	3	1	8	4 - 5	
25JQ6	Diode	3	4	0	22	12	---	---	6	---	4 - 5	
25JZ8 *	Pentode	2	7	7	7	12	1	3	12	2	7 - 9	* Key at 8; Must show short on 1 - 2
25JZ8 *	Triode	2	4	30	10	12	---	---	7	2	4 - 6	* Key at 5; Use red grid cap
25KA6	*	5	3	0	6	12	---	7	11	9	3 - 5	* Key at 4; Must show short on 2 - 8; Cap goes to top of tube
25MP20		1	3	12	20	12	---	6	5	1	3 - 4	
25RK19		1	4	0	4	12	2	---	9	---	4 - 5	Must show short on 2 - 9
26AQ8	Triode-1	1	4	25	11	12	---	---	6	7	4 - 5	
26AQ8	Triode-2	1	4	25	11	12	---	---	1	2	4 - 5	
26DQ5		1	2	0	5	12	1 - 4	8	11	5	2 - 7	Must show short on 1 - 3 - 4 - 5 - 6 - 8; Grid short test - Depress 1 - 5 together; Screen short test - Depress 4 - 8 together; Cathode short test - Depress 3 - 6 together
26HU5		3	7	35	20	12	5 - 6	3	11	1	8	Must show short on 1 - 2 - 5 - 6; Grid short test - Depress 1 - 5 together; Cathode short test - Depress 2 - 6 together

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
TUBE	SECTION	LEVER									FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z		
26HV5		5	1	5	30	12	---	---	7	2	1	Key at 0
26JG6		4	4	3	12	12	1	6	9	2	4 - 5	Must show short on 1 - 7
26LW6		1	7	0	5	12	1 - 4 - 6	3	11	5	7 - 8	Must show short on 1 - 2 - 5 - 6; Cathode short test - Depress 2 - 6 together
26LX6	*	3	4	15	20	11	1	6	11	8	2 - 4	* Key at 3; Must show short on 1 - 6
27GB5	*	3	4	2	16	12	2 - 7 - 8	6	12	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cathode short test - Depress 3 - 8 together; Red grid cap goes to top of tube
27KG6	*	1	4	8	26	12	1 - 2 - 3	7	11	8	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Black cap goes to top of tube
27LF6	*	5	3	0	5	12	2	7	11	9	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
28GB5	*	3	4	2	16	12	2 - 7 - 8	6	12	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cathode short test - Depress 3 - 8 together; Red grid cap goes to top of tube
28HA6		5	4	6	9	12	6	8	7	2	4 - 5	Must show short on 3 - 6 - 8 - 9
28HD5		5	1	0	5	12	9	5	7	3	1 - 11	Key at 0; Must show short on 5 - 9
29GK6		1	4	10	10	12	---	8	7	2	4 - 5	Must show short on 3 - 9
29KQ6	*	5	4	0	5	12	6 - 8	3	11	1	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Cap goes to top of tube
29LE6	*	4	4	8	15	12	6 - 7 - 8	2	11	1	5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Grid-1 short test - Depress 1 - 8 together; Grid-2 short test - Depress 3 - 6 together; Screen short test - Depress 2 - 7 together; Grid cap goes to top of tube
30A3		1	4	0	4	12	#	---	9	---	4 - 5	# W = 1 - 2 - 3 - 6 - 7 - 8; May show short on 1 - 2 - 3 - 6 - 7 - 8 - 9
30A5		1	3	5	6	12	2	6	7	5	3 - 4	Must show short on 2 - 5
30AG11	Triode-1	2	9	16	23	12	---	---	2	3	7 - 9	Key at 8
30AG11	Diode-1	3	9	0	16	12	---	---	5	---	7 - 9	
30AG11	Triode-2	2	3	16	23	12	---	---	8	7	1 - 3	Key at 2
30AG11	Diode-2	3	3	0	16	12	---	---	5	---	1 - 3	
30C18	Triode	5	4	7	10	8	---	---	1	9	4 - 5	Must show short on 6 - 8; Cathode short test
30C18	Pentode	5	4	0	22	8	---	2	3	7	4 - 5	Depress 6 - 8 together
30CW5		1	4	0	10	12	1 - 6 - 8	9	7	2	4 - 5	May show short on 1 - 2 - 6 - 7 - 8 - 9
30HD5		5	1	0	5	12	9	5	7	3	1 - 11	Key at 0; Must show short on 5 - 9

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA													
TUBE	SECTION	LEVER										FIL. CONT.	COMMENT
		A	B	C	D	E	W	X	Y	Z			
30HJ5		1	1	0	4	12	9	5	7	3	1 - 11	Key at 0; Must show short on 5 - 9	
30JZ6		2	2	0	6	12	---	6	11	8	2 - 4	Key at 3; Black cap goes to top of tube	
30KD6		5	3	0	5	12	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Black cap goes to top of tube	
30KG6	*	1	4	8	26	12	1 - 2 - 3	7	11	8	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Black cap goes to top of tube	
30LW6		1	7	0	5	12	1 - 4 - 6	3	11	5	7 - 8	Must show short on 1 - 2 - 5 - 6; Cathode short test - Depress 2 - 6 together	
30MB6	*	3	6	6	20	12	8 - 9	3	11	1	4	* Key at 5; Must show short on 2 - 3 - 8 - 9; Grid cap goes to top of tube	
30MP23		3	3	5	22	12	5	6	7	2	4	Must show short on 2 - 5; Grid short test - Depress 2 - 5 together	
30MP27		3	3	5	20	12	5	6	7	2	4	Must show short on 2 - 5; Grid short test - Depress 2 - 5 together	
30PL12	Triode	1	4	12	27	10	---	---	9	1	4 - 5		
30PL12	Pentode	1	4	10	9	10	---	7	6	3	4 - 5		
31A3		2	1	0	3	13?	6	---	2	---	1 - 8	Fil Cont - Set control "E" at 12	
31AL10	Pentode	3	6	7	23	10	---	5	4	8	1 - 11	Key at 0	
31AL10	Triode-2	3	6	7	29	10	---	---	2	3	1 - 11		
31AL10	Triode-1	3	11	7	28	10	---	---	2	4	5 - 7	Key at 6	
31JS6		5	4	0	6	12	1	6	11	8	2 - 4	Key at 3; Must show short on 1 - 6; Black cap goes to top of tube	
31LQ6		3	4	0	19	12	1 - 2	7	12	6	4 - 5	Must show short on 1 - 2 - 6 - 7; Red cap goes to top of tube	
31LR8	Triode	5	4	8	14	12	---	---	8	9	4 - 5		
31LR8	Pentode	5	4	0	6	12	---	7	6	2	4 - 5		
31LZ6		2	4	10	27	12	1 - 2	6	11	7	4 - 5	Must show short on 1 - 2 - 6 - 7	
32A8	Triode	1	4	31	13	12	---	---	9	1	4 - 5		
32A8	Pentode	1	4	10	14	12	---	7	6	3	4 - 5		
32GA7	Diode	3	7	0	18	12	---	---	4	---	5 - 7	Key at 6; Must show short on 4 - 5	
32GA7	Pentode	3	3	4	19	12	---	4 - 5	9	---	1 - 3	Key at 2	
32HQ7	Diode	3	1	0	20	12	7	---	2	---	1 - 11	Key at 0	
32HQ7	Pentode *	4	8	10	13	12	1	4	11	3	8 - 6	Key at 7; Throw lever #1 to "W" position before inserting tube	
33GT7	Diode	3	3	0	15	13	---	---	6	---	3 - 5	Key at 4; Use red grid cap	
33GT7	Pentode	3	3	2	17	13	---	1	9	2	3 - 5		
33GY7	Diode	3	4	0	15	13	---	---	5	---	2 - 4	Key at 3; Use red grid cap	
33GY7	Pentode	3	3	2	18	13	---	2	9	1	3 - 5		
33HE7 *	Diode	3	10	0	15	13	---	---	2	---	1 - 11		
33HE7 *	Pentode	5	6	0	5	13	4	5	11	3	1 - 11		
33JR6		4	4	5	20	12	1	6	9	2	4 - 5	Must show short on 1 - 7	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER												
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
33JV6		5	4	0	5	13	---	8	11	3	4 - 6	Key at 5; Must show short on 2 - 9
34CD3		5	1	0	5	13	---	---	4	---	1 - 11	Key at 0
34CE3		5	1	0	5	13	---	---	4	---	1 - 11	Key at 0
34CM3		3	4	0	17	13	2	---	7	---	4 - 5	Must show short on 2 - 7
34DK3		3	4	0	20	13	3 - 9	---	2 - 7	---	4 - 5	
34R3		3	4	0	17	13	2	---	9	---	4 - 5	Must show short on 2 - 9
35C3		3	3	0	16	13	---	---	5	---	3 - 4	
35DZ8	Triode	1	4	20	18	13	---	---	9	1	4 - 5	
35DZ8	Pentode	2	4	7	12	13	---	7	6	3	4 - 5	
35LR6		5	4	0	6	13	1	6	11	8	2 - 4	Key at 3
36KD6		5	3	0	5	13	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Black cap goes to top of tube
36LW6		1	7	0	5	13	1 - 4 - 6	3	11	5	7 - 8	Must show short on 1 - 2 - 5 - 6; Cathode short test - Depress 2 - 6 together
36MC6		3	4	15	20	13	6 - 7	1	11	2	5	Must show short on 1 - 2 - 6 - 7; Grid short test - Depress 2 - 6 together; Screen short test - Depress 1 - 7 together; Grid cap goes to top of tube
38HE7	Diode	3	1	0	15	13	---	---	2	---	1 - 11	Key at 0
38HE7	Pentode	5	6	0	5	13	4	5	11	3	6 - 8	Key at 7
38HK7	Diode	3	1	0	15	13	---	---	2	---	1 - 11	Key at 0
38HK7	Pentode *	5	6	0	5	13	4	5	11	3	6 - 8	Key at 7; * CAUTION - Throw lever #4 to "W" before inserting tube
40KD6		5	3	0	5	13	2	7	11	9	3 - 5	Key at 4; Must show short on 1 - 2 - 7 - 8; Cap goes to top of tube
40KG6	*	1	4	8	26	13	1 - 2 - 3	7	11	8	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8; Black cap goes to top of tube
40SUA		1	2	21	35	3	---	4	3	11	2 - 7	
42EC4	*	3	4	0	16	13	7 - 8	---	2	---	4 - 5	* Must use magnoval adapter; Must show short on 2 - 7 - 8; Cap goes to top of tube
42KN6		1	5	12	25	13	9	3	11	2	5 - 7	Key at 6; Must show short on 4 - 9; Black cap goes to top of tube
50BM8	Triode	2	4	32	10	14	---	---	9	1	4 - 5	
50BM8	Pentode	2	4	9	10	14	---	7	6	3	4 - 5	
50GY7 *	Diode	3	4	0	18	14	---	---	5	---	2 - 4	* Key at 3; Use red grid cap
50GY7 *	Pentode	3	3	2	18	14	---	2	9	1	2 - 4	* Key at 4
50HN5		5	4	0	25	14	1	9	7	2	4 - 5	Must show short on 1 - 2
50JY6		5	2	0	6	14	1	4	11	5	2 - 7	Must show short on 1 - 4
53HK7	Diode	3	1	0	15	14	---	---	2	---	1 - 11	Key at 0
53HK7	Pentode *	5	6	0	5	14	4	5	11	3	6 - 8	Key at 7; *CAUTION - Throw lever #4 to "W" before inserting tube

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER												
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z	FIL. CONT.	COMMENT
58HE7	Diode	3	1	0	15	14	---	---	2	---	1 - 11	Key at 0
58HE7	Pentode *	5	6	0	5	14	4	5	11	3	6 - 8	Key at 7; * CAUTION - Throw lever #4 to "W" before inserting tube
60HL5		5	4	0	14	14	1	9	7	2	4 - 5	Must show short on 1 - 2
163PEN		1	4	7	7	11	---	9	7	2	4 - 5	
171DDP	Pentode	4	4	12	10	11	---	9	7	2	4 - 5	
171DDP	Diode	3	4	0	23	11	---	---	8	---	4 - 5	
171DDP	Diode	3	4	0	23	11	---	---	7	---	4 - 5	
396A	Triode-1	1	1	21	9	7	---	---	4	3	1 - 9	
396A	Triode-2	1	1	21	9	7	---	---	6	7	1 - 9	
403B		1	3	22	16	7	---	6	5	1	3 - 4	Must show short on 2 - 7; Cathode short test Depress 2 - 7 together
TJ880		1	4	10	6	7	---	8	7	2	4 - 5	Must show short on 1 - 3 - 6 - 9
2713		3	4	7	32	7	7	1	6	9	4 - 5	Must show short on 2 - 7
5763		1	4	27	10	7	8	6	1	9	4 - 5	Must show short on 8 - 9; Grid short test - Depress 8 - 9 together
5823		7	1	0	0	18	---	---	1	---	---	Must show short on 3 - 7
5844	Triode-1	1	3	10	14	7	---	---	2	5	3 - 4	
5844	Triode-2	1	3	10	14	7	---	---	1	6	3 - 4	
5845 *	Plate-1	4	3	0	50	5z	7	---	5	---	3 - 4	* CAUTION: Throw lever 7 to "W" position before inserting tube; Set switch "E" to #6 if there is no 5z position; Good tube reads above 30
5845 *	Plate-2	4	3	0	50	5z	7	---	1	---	3 - 4	
5896	Diode-1	1	3	0	5	7	---	---	5	---	3 - 6	
5896	Diode-2	1	3	0	5	7	---	---	1	---	3 - 6	
5933		7	1	20	10	7	---	2	12	3	1 - 5	Use red grid cap
6012		2	2	10	0	7	---	8	5	3	2 - 7	
6084		3	4	7	32	7	7	1	6	9	4 - 5	Must show short on 2 - 7
6085	Triode-1	1	9	27	10	7	---	---	1	2	4 - 5 - 9	
6085	Triode-2	1	9	27	10	7	---	---	6	7	4 - 5 - 9	
6094		4	3	5	8	7	6 - 7 - 9	2	4	1	3 - 5	Must show short on 1 - 2 - 4 - 6 - 7 - 9
6216A		1	4	5	8	7	6	7	1	2	4 - 5	Must show short on 1 - 3 - 6 - 8; Cathode short test - Depress 3 - 8 together
6227		1	4	10	16	7	---	8	7	2	4 - 5	Must show short on 1 - 6
CK6293		3	2	6	21	7	---	3	11	5	7	Must show short on 1 - 4 - 6; Cathode short test - Depress 1 - 4 - 6 together
CK6526		4	5	6	9	2	---	2	1	4	3 - 5	
PL6574		3	1	20	25	7	---	6	3	5	7	
6686		4	4	4	9	7	1	8	7	2	4 - 5	
6689		1	4	12	20	7	---	1	6	2	5	
6939	Pent-1	1	9	7	14	7	---	7	8	3	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
6939	Pent-2	1	9	7	14	7	---	7	6	1	4 - 5	
7058	Triode-1	1	4	12	32	10	9	---	6	7	4 - 5	
7058	Triode-2	1	4	12	32	10	9	---	1	2	4 - 5	
7119	Triode-1	1	8	27	5	7	---	---	9	7	4 - 5 - 8	
7119	Triode-2	1	8	27	5	7	---	---	1	2	4 - 5 - 8	
7233		3	4	16	18	7	*	---	1	2	5	* 3 - 6 - 7 - 9; Must show short on 1 - 2 - 3 - 6 - 7 - 9
7308	Triode-1	1	4	10	10	7	---	---	6	7	4 - 5	
7308	Triode-2	1	4	10	10	7	---	---	1	2	4 - 5	
7320		1	4	28	7	7	1	9	7	2	4 - 5	Must show short on 1 - 2
7360		4	4	0	32	7	---	2	6 - 7	3	4 - 5	
7586	*	2	4	18	10	7	---	---	1	2	4 - 5	*Use G-140 adapter; Connect red grid cap to G-140 plug
7643	Triode	1	4	15	10	7	---	---	1	9	4 - 5	
7643	Pentode	1	4	10	25	7	---	3	6	2	4 - 5	
7751		1	2	5	5	7	1	4	3	5	2 - 7	
7788		5	4	0	13	7	9	6	7	2	4 - 5	Must show short on 1 - 3 - 6 - 9
7802	Triode-1	2	7	2	9	7	---	---	2	1	7 - 8	
7802	Triode-2	2	7	3	9	7	---	---	5	4	7 - 8	
7868		1	4	14	10	7	6 - 7	1	9	2	4 - 5	Will show short on 1 - 2 - 6 - 7
7898	Triode-2	1	4	33	12	10	9	---	1	2	4 - 5	
7898	Triode-1	1	4	33	12	10	9	---	6	7	4 - 5	
7984		2	6	0	7	10	1	5	12	4	6 - 8	Key at 7; Must show short on 2 - 3 - 9 - 1 - 5; Use red grid cap; Cathode short test - Depress 2 - 3 - 9 together
8032		1	2	6	6	10	---	3	11	5	2 - 7	Must show short on 1 - 4 - 6; Cathode short test - Depress 1 - 4 - 6 together
8056		3	4	2	20	7	---	---	1	2	4 - 5	
8077		1	4	16	12	10	---	8	7	2	4 - 5	Must show short on 3 - 9
8102	Triode	5	4	10	11	10	---	---	1	3	4 - 5	
8102	Pentode	4	4	8	10	10	---	7	6	9	4 - 5	
8106		1	4	25	9	10	#	3	1	7	4 - 5	# Throw levers 6 - 8 - 9 to "W"; Must show short on 2 - 3 - 6 - 8 - 9; Cathode short test - Depress 2 - 6 - 9 together
8113		5	3	5	10	7	2	6	5	1	3 - 4	Must show short on 2 - 7; Cathode short test - Depress 2 - 7 together
8136		1	3	6	29	7	---	6	5	1	3 - 4	
8156		2	5	7	10	10	6 - 7 - 8	2	9	1	3 - 5	Key at 4; Must show short on 6 - 7 - 8 - 9 - 12; Use red grid cap; Cathode short tester - Depress 6 - 12 together
8203		3	4	19	16	7	---	---	1	2	4 - 5	

PRECISION 10-12, 10-15, 10-20, 10-22, 10-54 TUBE TEST DATA												
LEVER											FIL. CONT.	COMMENT
TUBE	SECTION	A	B	C	D	E	W	X	Y	Z		
8233	*	1	4	5	7	7	---	3	1	8	4 - 5	* Must use magnoval adapter; Must show short on 2 - 6 - 7 - 9
8278	*	1	4	5	6	7	7 - 8	1	9	3	4 - 5	* Must use magnoval adapter; Must show short on 1 - 2 - 3 - 6 - 7 - 8
8298		1	2	6	6	7	---	3	11	5	2 - 7	Must show short on 1 - 4 - 6; Cathode short test - Depress 1 - 4 - 6 together
8417		1	2	7	7	7	---	4	3	5	2 - 7	
8425		1	3	16	29	7	---	6	5	1	3 - 4	
8441		5	4	12	10	7	---	---	1	2	4 - 5	
8532		1	3	33	6	7	1 - 5	---	7	6	3 - 4	Must show short on 1 - 5 - 6
8552		1	2	6	6	10	---	3	11	5	2 - 7	Must show short on 1 - 4 - 6; Cathode short test - Depress 1 - 4 - 6 together
8908		3	7	15	20	7	1 - 2	3	11	5	8	Must show short on 1 - 2 - 5 - 6; Grid-1 short test - Depress 1 - 5 together; Grid-3 short test - Depress 2 - 6 together
8950	*	1	3	9	38	10	---	2 - 7	11	6	3 - 5	* Key at 4; Must show short on 1 - 2 - 7 - 8