

NOTES FOR USE WITH CHART #4965-346.  
AND SUPPLEMENTS THERETO

- (\*) Indicates an octal tube which has an equivalent non-octal tube.
- (Dio) Tubes reading above 20 on the 0-100 scale are good.
- (S) Nos. 4 and 5 show short.
- (B) Tube checked for opening and closing of eye only.
- (C) Nos. 2 and 7 show short.
- (D) Nos. 4 and 7 show short.
- (E) Nos. 4 and 6 show short.
- (F) Nos. 2 and 3 show short.
- (J) Connects remaining top cap to No. 4 hole of octal socket.
- (K) Nos. 1 and 7 show short.
- (L) Nos. 1 and 4 show short.
- (M) Nos. 2 and 6 show short.
- (N) Nos. 3 and 5 show short.
- (P) Nos. 6 and 7 show short.
- (R) Nos. 1 and 5 show short.
- (S) Push special switch and then push quality.
- (T) Indicates tapped filament type.
- (U) Nos. 5 and 7 show short.
- (V) Nos. 1 and 8 show short.

NOTE

Due to thermionic emission certain types of tubes as listed below may check shorted even though they are not defective. If a tube listed below should show "shorted" when tested in the normal procedure the tube should be removed and allowed to cool. Then before the tube is reinserted in the tester the "Filament Volts Selector" switch which is the second switch from the left on Models 589, 589-A, 599, 599-A, and first switch from the left on Models 504-A and 504-B, should be rotated to position "13". This will remove the filament voltage from the tube and allow a shorts test to be made without the thermionic emission obscuring the test.

Tubes which may show short are: 6F8, 25Z6, 25A7, 117Z6, and 6L6.

SUPPLEMENT #1 TO CHART

#4965-346

00A	1	5	65	B	4
01A	1	5	34	A	4
01B	1	5	34	A	4
01C	1	5	40	A	4
0A4	2	1	41	E	7
1B5*	2	2	80	D	3467
1B5*	2	2	80	D	3456
1B5*	2	2	57	C	457
2A4	2	3	30	C	7
2G5	1	6	90	D	56
2S	1	3	100	B	345
2S	1	3	100	B	245
2W3	2	2	34	A	8
2X3	2	3	30	A	8
2Z2	1	3	49	A	4
4A6	8	2	32	A	2567
4A6	8	2	32	A	2347
6A4	1	6	20	A	5
6F7M*	2	6	42	C	678
6F7M*	2	6	56	A	789
6G6	2	6	18	A	78
6G7	1	6	21	A	57
6G7	1	6	26	C	3457
6G7	1	6	26	C	3467
6H4(Dio)	2	6	72	B	78
6H7M	2	6	32	C	6789
6H7M*	2	6	58	A	4578
6H7S	1	6	32	C	5679
6H7S	1	6	46	A	3467
6RS	2	6	33	C	78
6S6	2	6	30	C	17
6S7	2	6	30	C	78
6SB7Y	2	6	20	C	67
6SZ7	7	6	85	D	3458
6SZ7(Dio)	7	6	70	A	2368
6T6	2	6	19	A	78
6T7	2	6	29	C	4578
6T7(Dio)	2	6	90	B	3789

	2	6	21	C	78
6U6	2	6	21	C	78
6Y3	High Voltage Rectifier NO TEST				
6X6(B)	2	6	100	D	678
6Z3	1	6	58	B	34
6Z4	1	6	25	C	345
6Z4	1	6	25	C	245
10	1	7	19	A	4
12A5(K)	6	6	19	C	157
12A6	2	8	31	C	78
12A7	1	8	29	A	4567
12A7	1	8	25	C	4679
12B7	1	8	30	C	78
12H6(Dio)	2	8	62	B	47
12H6(Dio)	2	8	62	B	78
12Z3	1	8	20	C	34
14	1	8	25	A	45
14A4	1	8	25	C	78
14A5	1	8	20	C	78
14A7	1	8	25	C	78
14AF7	1	8	30	C	28
14AF7	1	8	30	C	78
14B6(D)	1	8	25	C	478
14B6(Dio)	1	8	80	B	3478
14B8	1	8	25	C	78
14C5	1	8	25	C	78
14C7	1	8	31	C	78
14E6	1	8	26	C	478
14E6(Dio)	1	8	80	B	3478
14E7	1	8	35	C	3478
14E7(Dio)	1	8	90	B	5678
14F7	1	8	29	C	28
14F7	1	8	29	C	78
14H7	1	8	55	B	78
14J7	1	8	30	C	3478
14J7	1	8	38	C	678
14N7	1	8	30	C	28
14N7	1	8	30	C	78
14Q7	1	8	24	C	78
14R7	1	8	19	A	3478
14R7(Dio)	1	8	99	B	678
14S7	1	8	56	B	3478
14S7	1	8	65	B	5678

14W7(D)	1	8	56	A	478
14Y4	1	8	30	C	678
14Y4	1	8	30	C	378
14Z3	1	8	58	B	34
15	1	2	48	C	45
17	1	8	25	A	45
18	1	8	19	A	56
19	1	2	40	C	456
19	1	2	40	C	236
20	1	4	55	C	4
22S	1	8	60	A	4
29	1	3	30	C	56
40	1	5	40	C	4
44	1	6	25	A	45
48	1	9	22	C	56
49	1	2	40	C	5
50	1	7	29	A	4
51	1	3	35	C	45
52	1	6	32	C	5
55*	2	3	36	C	4578
55(D10)	2	3	90	B	3789
59	1	3	57	B	67
59B	1	3	20	A	7
69	1	6	25	A	56
70	1	6	48	A	56
75*	2	6	29	C	4578
75(D10)	2	6	75	B	3789
79	1	6	30	C	2346
79	1	6	30	C	4569
81	1	7	54	A	4
85*	2	6	26	A	4578
85(D10)	2	6	80	B	3789
86M	2	6	22	A	78
88M	2	6	19	A	78
89	1	6	20	A	56
99	1	4	68	C	4
121B	1	5	50	C	4
182B	1	5	32	C	4
183	1	5	35	C	4
2050	1	5	48	C	4
257	1	5	26	A	5
484	1	4	32	C	45

485	1	4	31	C	45
802	1	6	18	A	67
807	1	6	20	A	45
841	1	7	33	A	4
842	1	7	33	A	4
854	1	1	40	A	4
2051	2	6	30	C	78
7000	2	6	31	C	78
7700	1	6	31	C	56
BH	2	1	50	E	4
BH	2	1	50	E	1
CK501	1	1	57	C	5
CK502	1	1	50	C	5
CK503	1	1	50	C	5
CK504	1	1	55	C	55
GA	1	5	20	A	5
HY-113	1	1	65	A	5
HY-114B(J)	2	1	60	B	7
HY-115	1	1	70	C	5
HY-125	1	1	50	A	5
HY-145	1	1	60	G	5
HY-155	1	1	72	A	5
HY-815 (J)	2	6	30	C	78
KR22	1	6	18	A	56
OY4	4	1	32	E	78
PA	1	6	22	A	45
PZH	1	3	20	A	67
R20	1	3	35	A	45
R30	1	3	38	A	45
R32	1	3	39	A	45
R100	1	5	44	A	4
R200	1	5	35	A	4
RK24	1	2	50	C	4
RK33	1	6	28	C	4567
RK33	1	6	28	C	2379
WUND-A	1	3	30	A	56
WUND-AB	1	6	25	A	56

## PROCEDURE FOR TESTING BALLAST TUBES

*Ballast tubes are checked for opens, loose connections, and bad welds.*

FOR MODELS 589-A, 599-A

FOR MODEL 504-B

All ballast tubes are checked with "QUAL-LEAK" switch in "LEAK" position. Set left hand rotary switch in #9 position and push #9 toggle switch UP. The neon lamp should glow as the toggle switches whose numbers are listed are pushed UP.

Press momentary "RELEASE FOR LEAKAGE" button to release any previously depressed buttons in same row. The ballast tube is inserted in the proper socket. The neon lamp should light when the indicated buttons are pressed. Any flickering of the neon lamp when the tube is tapped indicates a poorly welded joint.

TYPE	SWITCHES UP
2UR	378
2VR	378
3CR	378
3ER	378
5B	134
6B	134
6.125	378
6.126	378
6.129	378
6.133	378
6.133A	378
6.135	378
10A	378
11AJ	378
17A	378
17AJ	378
30AG	378
30AJ	378
30LB	378
30LC	378
30LD	378
36A	378
36AG	378
37A	378
40	14
40A2	134

TYPE	SWITCHES UP
42A(OCTAL)	378
42A(UX)	14
42AG	378
45W	14
49W	378
49B	378
49C	378
50	14
50A2	134
50B2	134
50W	14
50X3	14
50X300	14
50X31	134
55A	378
55KA	378
55KB	378
55KC	378
55LB	378
55LC	378
55MB	378
55MC	378
60R30	134
60R30G	134
61A	378
61KB	378
61KC	378
61MB	378
61MC	378
62A	378
67A	378
67KB	378
67KC	378
67KD	378
74A	378
74KA	378
74KB	378
74KC	378
74KB	378
79A	378

TYPE	SWITCHES UP
79KB	378
79KC	378
80A	378
82A	378
82LB	378
85R8	134
86A	378
88A	378
90R8	134
92A	378
94R8	134
95K2	378
100.7	378
100.38	378
100.45	378
100.70	378
100R	14
100R4	134
100R8	134
115.22	378
115.28	378
115.40	378
115.41	378
115.42	378
115.53	378
115.53X	378
115.55	378
115.65	378
120R8	134
135K1	378
135K1A	378
140A	14
140KB(OCTAL)	378
140KB(UX)	134
140KC(OCTAL)	378
140KC(UX)	134
140L4	134
140L8	134
140L44	1234
140LB(OCTAL)	378
140LB(UX)	134



TYPE	SWITCHES UP
140LC(OCTAL)	378
140LD(UX)	1234
140M4	134
140M8	134
140R	14
140R4	134
140R8	134
140R44	1234
160R4	134
165A	14
165KB(OCTAL)	378
165KB(UX)	134
165KC(OCTAL)	378
165KC(UX)	134
165KD(OCTAL)	378
165KD(UX)	1234
165L4	134
165L8	134
165L44	1234
165LB(OCTAL)	378
165LB(UX)	134
165LC(OCTAL)	378
165LC(UX)	134
165LD(OCTAL)	378
165LD(UX)	1234
165M4	134
165M8	134
165R	14
165R4	134
165R8	134
165R44	1234
170K1	378
180A	14
180KB(OCTAL)	378
180KB(UX)	134
180KC(OCTAL)	378
180KC(UX)	134
180KD(OCTAL)	378
180KD(UX)	1234
185A	14
185KB(OCTAL)	378

TYPE	SWITCHES UP
185KB(UX)	134
185KC(OCTAL)	378
185KC(UX)	134
185KD(OCTAL)	378
185KD(UX)	1234
185L4	134
185L6	134
185L44	1234
185LB(OCTAL)	378
185LB(UX)	134
185LC(OCTAL)	378
185LC(UX)	134
185LC(OCTAL)	378
185LC(UX)	1234
185M4	134
185M8	134
185R	14
185R4	134
185R8	134
185R44	1234
190K1	378
200R	14
200R4	134
200R8	134
245A	14
245KB(OCTAL)	378
245KB(UX)	134
245KC(OCTAL)	378
245KC(UX)	134
250A	14
250KB(OCTAL)	378
250KB(UX)	134
250KC(OCTAL)	378
250KC(UX)	134
250L4	134
250L6	134
250M4	134
250M8	134
250R	14
250R4	134
250R8	134

TYPE	SWITCHES UP
270KB(OCTAL)	378
270KB(UX)	134
270KC(OCTAL)	378
270KC(UX)	134
270L4	134
270L8	134
270M4	134
270M8	134
270R	14
270R8	134
370	14
2903	378
2904	378
2905	378
2906	378
2922	378
2923	378
8593	378
8598	378
16032	378
16035	378
16036	378
A-16040	378
81966-2	378
81996	378
BK-42-D	378
BK-49-D	378
BK-80-B	378
BM-49-B	378
BM-49-C	378
BM-55-C	378
BM-80-C	378
K-42-B	378
K-42-C	378
K-49-C	378
K-55-B	378
K-55-C	378
K-74-B	378
K-78-B	378
K-80-C	378

TYPE	SWITCHES UP
K-90-B	378
L-42-B	378
L-49-C	378
L-55-B	378
L-55-C	378
M-49-B	378
M-49-C	378
M-55-B	378
M-55-C	378
M-74-B	378
M-74-C	378
M-80-B	378
M-80-C	378



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