CONDENSED OPERATING INSTRUCTIONS
AND
REVISED TUBE CHART

TUBE CHECKER

MODEL TC-3A

EBI-7001C

ELECTRONICS DIVISION
GENERAL ELECTRIC COMPANY
ELECTRONICS PARK, SYRACUSE, N. Y.

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OPERATING INSTRUCTIONS AND REVISED TUBE CHART

TUBE CHECKER

MODEL TC-3A

GENERAL

The General Electric Tube Checker, Model TC-3A, is an emission type tube checker. Tubes are tested for quality by a test wherein the grid is placed at cathode potential while the screen is placed at a lower potential then the plate. Cathode emission, as well as ability of other elements to control the plate current, are thus tested simultaneously.

OPERATION

TUBE TESTING

1. Place the slide switch in the TUBE TEST position.

2. Set FIL VOLTS switch, KEYS, and INDEX to settings shown on the chart for the tube under test.

3. Turn the TEST switch to the 5th or LINE TEST position and turn the LINE ADJUSTER until the meter reads on the line point (tube in its proper socket).

4. Rotate the TEST switch through the short positions 4,3,2,1, tapping the tube in each position while watching the neon bulb for glow. The meter will also indicate slightly on a shorted tube.

5. If the tube is free of shorts, turn the TEST switch to the 1st OUTPUT position to read meter (a "2" following the INDEX setting on the chart indicates that the 2nd OUTPUT position is to be used to obtain the readings).

6. Follow the same procedure in making the second or third tests, but only make short tests when the keys are shown in capital letters. When setting the keys to the position shown for the second and third tests, always return the red keys to the vertical position, set the black keys, then reset the red keys. Read the meter for condition of the tube section under test.

BATTERY TESTING

1. Place the slide switch in the BATTERY TEST position.

2. Refer to the manufacturer's data for voltages.

3. Plug test leads in the appropriate pin jacks.

4. Always check portable batteries with the set turned on. This checks the battery under load.

MODIFICATION FOR NEW TYPE TUBES

The addition of many new types of tubes with base connections differing from those in existance at the time the TC-3A Tube Checker was designed makes it necessary either to modify the unit or use adaptors. The following adaptors are available from the General Electric Co., Component Parts Section, Commercial Equipment Department, Electronics Park, Syracuse, N. Y.

(A) SJA-004 (Fig. 1), for other than 19-volt tubes as indicated.

(C) SJA-006 (Fig. 2), for other than 19-volt tubes as indicated.

(D) SJA-007 (Fig. 3), for 19-volt tubes.

(E) SJA-009 (Fig. 4), for acorn tubes.

It will be necessary to modify the unit or construct an additional adaptor as below:

(Y) Some 7-pin miniature tubes have base connections requiring an adaptor as shown in Fig. 5.

The adaptors can be made by using parts similar to Amphenol Type 50-85G. Connections should be made as shown in Figs. 1 through 5. If it is desired to mount sockets in the TC-3A panel, standard sockets may be used and connections made exactly as shown in the adaptors diagrams. In addition, a pin jack should be mounted on the panel to serve the same purpose as the side stud on the special octal adaptor plug.

REVISED TUBE CHART FOR TUBE CHECKER, MODEL TC-3A

NOTE

The following symbols are used uniformly to indicate footnotes as shown:

* Do not connect side stud.
** Shows short on positions 1, 2 and 3.
ø Shows short on position 2.
øø Do not connect side stud. Side stud connected to pin 3 of 5-pin socket.
Test for glow only.
Side stud connected to pin 2 of 5-pin socket.
/ Connect side stud of adaptor to pin 2 of 5-pin socket.
// Shows short on position 1.
± Connect side stud of adaptor to any pin #1.

Adaptor is indicated in parentheses following tube type.

TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
00A	F	ORJ	54	1E4	C	OGI	58
01-A	F	ORJ	54	1E5	D	AO	48
0A4	E	AOS	88-2	1E7	D	MOGI	65
0Y4	C	3-S	92-2	"	D	GI	50
0Z4	A	ORJ	86-2	1F4	D	MOHI	55
"	A	QS	86-2	1F5	D	AOGI	55
1A3	C	LN	36	1F6	D	AO	40
1A4	D	OFJ	50	"	D	GT	36
1A5	C	AOFT	56	"	D	HT	36
1A6	D	AOGT	43	1F7	D	OHT	40
1A7	C	AOQJ	25	"	D	GT	36
1AB5	C	BN	12	"	D	AO	36
1B3/8016	C	2,[illegible]	62	1G4	C	OGI	66
1B4	D	OHI	46	1G5	D	KOGI	68
1B5/25S	D	OFJ	89	1G6	C	AO	89
"	D	BD	36	"	C	RI	89
"	D	GJ	36	1H4	D	OGI	64
1C5	C	KOGI	74	1H5	C	OHI	54-2
1C6	D	AOGT	45	"	C	HI	36-2
1C7	D	AOHT	45	1H6	D	ORT	89
1D5	D	AO	50	"	D	MN	36
1D7	D	AOHT	45	"	D	GT	36
1D8	C	5-AO	68	1J5	D	KOGI	70
"	C	GI	45	1J6	D	AO	91
"	C	PT	36	1J6	D	HI	91

TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
1L4	C	5-AOQS	35	2E5	E	LOQI	64-2
1L6	C	AOPS	80	2E24	G	S	92-2
1LA4	C	LNFJ	56	2E26	G	8-0	91
1LA6	C	BNPJ	29	2E30	G	1248-OEPS	68
1LB4	C	BNGJ	81	2G5	E	LOQI	64-2
1LC5	C	BNI	97	2S/4S	E	OPT	94
1LC6	C	BNPJ	40	2V3	E	8	53
1LD5	C	6-LN	61-2	2W3	E	27-E	98
"	C	LD	23	2X2	E	8	75
1LE3	C	NPT	50	3A4	C	356-LD	10
1LG5	C	5-ANHT	35	3A5	C	LO	56
1LH4	C	NHT	83	"	C	GI	56
"	C	AO	36	3A8	C	28-AO	96
1LN5	C	6-LN	55-2	"	C	18-GI	40
1N5	C	AO	54-2	3B5	C	7-AOHT	79
1N6	C	AOFT	53	3B7/1291	C	3-NHJ	40
"	C	HT	36	"	C	JP	40
1P5	C	AO	10	3B26*	E	8	50
1Q5	C	KOGI	74	3C6	E	I	35
1R4/1294	C	7-CN	34	3D6/1299	C	6-LN	45
1R5	C	5-AO	40	3E6	E	6-BN	20
1S4	C	LO	78	3LF4	D	6-LN	74
1S5	C	LOQS	10	3Q4	C	356-LD	45
"	C	3ao	34	3Q5	D	7-AOHT	60
1SA6	C	BNQJ	46	3S4	C	356-LD	45
1SB6	C	AOPS	70	3V4	E	6-AOJ	65
1T4	C	5-AOQS	46	4A6	D	7-LO	10
1T5	C	KOGI	74	"	F	5-1	10
1U4	C	5-AOQS	53-2	5AX4	F	27-E	95
1U5	C	AOQS	55-2	"	F	27-I	95
"	C	BD	34-2	5AZ4	F	18-E	98
1V	G	OQI	98	5AZ4	F	18-I	98
1V6	C	8-I	40	5R4GY	F	27-0	98
1W4	C	AOQS	87-2	"	F	27-I	98
1X2(C)	C	8	55	5T4	F	27-E	98
1Z2	C	8	71	"	F	27-I	98
2A3	E	BOFT	93	5U4	F	27-E	97
2A4	E	OGI	98	"	F	27-I	97
2A5	E	KOPT	76	5V4	F	27-E	98
2A6	E	OPT	42-2	"	F	27-I	98
"	E	RT	36	5W4	F	27-E	97
"	E	5MN	36	"	F	27-I	97
2A7	E	KOQS	68	5X3	F	0	97
2B6	E	OGT	75	"	F	S	97
"	E	7-ERJ	60	5X4	F	7-0	97
2B7	E	7-AO	56	"	F	7-S	97
"	E	GT	36	5Y3	F	27-E	97
"	E	HT	36	"	F	27-I	97
2C21	G	LE	76	5Y4	F	7-0	97
"	G	7H1	93	"	F	7-S	97

*Do not connect side stud.

TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
5Z3	F	O	97	6AQ6	G	12348-FJ	36
"	F	S	97	"	G	12348-QJ	36
5Z4	F	27-E	98	6AQ7	G	67-BDGT	43
"	F	27-I	98	"	G	47-AEJ	38
6A3	G	BOFT	93	"	G	7-ADJ	38
6A4/LA	G	MOGT	70	6AR5	G	1248-MNPS	76
6A5	G	OS	98	6AR6	G	1267-MOPI	67
6A6	G	HJ	45	6AS5	G	248-HI	96
"	G	5-MO	45	6AS6	G	1248-MNPS	45
6A7	G	KOQS	68	6AS7	G	17-KN	99
6A8	G	KOPI	68	"	G	17-EGS	99
6AB4	G	1248-GJ	39	6AT6	G	1248-AET	30
6AB5/6N5	G	MOQI	32	"	G	12348-FJ	36
6AB6	G	EGT	92	"	G	12348-QJ	36
"	G	OGT	85	6AU5	G	JAEF	91
6AB7/1853	G	ADGJ	62	6AU6	G	1248-LNPS	55
6AC5	G	ORI	87	6AV5	G	AEFJ	94
6AC6	G	ORI	88	6AV6	G	1248-AET	50-2
6AC7	G	LOGJ	66	6AV6	G	12348-FJ	36
6AD6	G	KOFS	10	6AV6	G	12348-QJ	36
6AD7	G	CDIP	85	6AX4	G	7-BDS	98
"	G	AOGT	80	6AX5	G	OPI	96
6AE5	G	OPI	92	"	G	FS	96
6AE6	G	OHT	58-2	6B4	G	OGI	93
6AF4	G	7-HI	95-2	6B5	G	EGJ	92
6AF5	G	OPI	88	"	G	OGJ	85
6AF6	G	KOFS	10	6B6	G	OPI	42-2
6AG5	G	1248-MNPS	64	"	G	7-MN	36
6AG7	G	ADGJ	75	"	G	GT	36
6AH4	G	7-KOPS	95	6B7	G	7-AO	56
6AH6	G	1248-MNPS	64	"	G	GT	36
6AH7	G	7-MO	63	"	G	HT	36
6AH7	G	47-GI	63	6B8	G	OHT	56
6AJ4(A)	G	7-FI	95-2	"	G	GT	36
6AJ5	G	1248-MNPS	72	"	G	7-BD	36
6AK5	G	1248-MNPS	64	6BA6	G	1248-CEPS	71
6AK6	G	1248-LNPS	72	6BA7(C)	G	3KOIJ	75
6AK7	G	ADGJ	75	6BC5	G	1248-MNPS	55
6AL5	G	248-IF	41	6BC7(C)	G	RJ	96-2
"	G	248-HJ	41	"	G	PJ	96-2
6AL7	G	AOHT	60-2	"	G	6-HJ	96-2
6AM4(A)	G	7-FI	95-2	"	G	6J	96-2
6AM4(A)	G	7-FI	95-2	6BD5	G	KN	96-2
6AN4(Y)	G	7-HI	95-2	6BD6	G	1248-MNPS	61
6AQ5	G	1248-AEFS	85ø	6BE6	G	1248-MNFS	50
6AQ6	G	1248-AET	54-2	6BF5	G	1248-AEFS	90ø

øShows short on position 2.

TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
6BF6	G	1248-AET	62	6E5	G	LOQI	64-2
6BF6	G	12348-FJ	35	6E6	G	5-KO	94
6BF6	G	12348-QJ	35	"	G	GJ	94
6BG6	G	8-AEFJ	96	6E7	G	AOHT	64
6BH6	G	1248-MNPS	54	6F4(E)	G	57-OQS	94
6BJ6	G	1248-MNPS	62	6F5	G	EPI	44-2
6BK5(C)	G	7-PS	88	6F6	G	KOPI	78
6BK6	G	1248-AET	25-2	6F7	G	7-KO	60
"	G	12348-FJ	37	"	G	QS	44
"	G	12348-QJ	32	6F8	G	PI	76
6BK7(C)	G	CE	89	"	G	BO	76
6BK7(C)	G	JG	89	6G6	G	KOPI	72
6BL7	G	17-CDGS	93	6H4	G	KOPI	45
"	G	17-BDGS	93	6H5	G	MOPT	55-2
6BN6	G	248HI	58-2	"	G	bnqi	100-2#
6BQ6	G	8-KOPI	95	6H6	G	BO	98
6BQ7*(C)	G	CE	92	"	G	FS	98
" (C)	G	JG	92	6J4	G	1248-MNT	84
6BT6	G	1248-AET	54-2	6J5	G	OPI	72
"	G	12348-FJ	38	6J6	G	1248-DFJ	84
"	G	12348-QJ	38	"	G	1248-OQJ	84
6BU6	G	1248-AET	67	6J7	G	KORI	54
"	G	12348-FJ	36	6J8	G	KOPI	80
"	G	12348-QJ	36	6J8	G	KOHT	50
6BX7	G	17-KN	95-2	6J8	G	HT	20
6BX7	G	17-EGS	95-2	6K5	G	OGT	10
6BZ7(C)	G	CE	90	6K6	G	KOPI	80
6BZ7(C)	G	JG	90	6K7	G	KOPI	60
6C4	G	1248-RS	75	6K8	G	KOPI	79
6C5	G	OPI	60	"	G	PI	64
6C6	G	KOCJ	54	6L5	G	OPI	72
6C7	G	7-O	54	6L6	G	KOPI	90
"	G	GT	36	6L7	G	KOPI	52
"	G	HT	36	6N6	G	EGT	92
6C8	G	BO	40	"	G	OGT	85
"	G	PI	40	6N7	G	PI	45
6CB6	G	1248-MNPS	61	"	G	7-MO	45
6CD6	G	8-AEFJ	96	6P5	G	OPI	72
6CL6(C)	G	4-AD	65-2	6Q4##(C)	G	8-O	99
6CL6*(C)	G	CO	96	6Q7	G	OPI	50-2
6D4	G	1248-FI	35	"	G	RI	36
6D6	G	KOPT	62	"	G	7-BD	36
6D7	G	AOHT	65	6R7	G	OPI	65
6D8	G	KOPI	65	"	G	RI	36

*Do not connect side stud.
#Test for glow only.
##Side stud connected to pin 2 of 5-pin socket.

TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
6R7	G	7-BD	36	6T7	G	OPI	48-2
6R8(C)	G	QT	38	"	G	RI	22
"	G	46-FT	38	"	G	7BD	24
"	G	AD	38	6T8(C)	G	QT	44
"	G	6-LD	38	"	G	46FT	44
6S4(C)**	G	CNJ	95-2	"	G	AD	44
6S7	G	AORI	68	"	G	6LD	44
6S8	G	7-DM	30	6U4	G	7-BDS	95-2
"	G	7BD	30	6U5	G	LOFI	48
"	G	57-AD	30	6U6	G	AOPI	92
"	G	7-FI	34-2	6U7	G	KOPI	64
6SA7	G	KOFT	50	6U8(C)	G	FOT	95-2
6SB7Y	G	KOFT	53	" (C)	G	IQE	85-2
6SC7	G	167-AD	87	6U8(C)	G	FOT	98
"	G	17-MNHS	87	6U8(C)	G	6-FOJ	98
6SD7	G	CDGJ	65	6V3*(C)	G	OI	96-2**
6SE7	G	BNGJ	68	6V6	G	KOPI	83
6SF5	G	17-KES	40-2	6V7	G	OPI	76
6SF7	G	17-MNI	69	"	G	RI	36
"	G	37-QT	10	"	G	MN	36
6SG7	G	KNGJ	56	6V8(C)	G	GJ	39
6SH7	G	KNGJ	53	"	G	HT	39
6SJ7	G	BNGJ	64	"	G	RT	39
6SK7	G	BNGJ	74	"	G	QJ	39
6SL7	G	17-CDGS	87	6W4	G	7BDS	97
6SL7	G	17-BDGS	87	6W5	G	FS	98
6SN7	G	17-CDGS	92	"	G	OPI	98
"	G	17-BDGS	92	6W6	G	KOPI	90
6SQ7	G	17-KNI	85	6W7	G	KOPI	54
"	G	378-MN	36	6X4	G	DRS	98
"	G	378-GT	36	"	G	HI	98
6SR7	G	17-KNI	90	6X5	G	FS	98
6SR7	G	378-MN	36	"	G	OPI	98
"	G	378-GT	36	6X8(C)	G	7NO	98
6SS7	G	BNGJ	68	" (C)/	G	7EFS	86
6ST7	G	17-KNI	90	6Y5	G	6-E	98
6SU7	G	17-CDGS	85	"	G	HS	98
"	G	17-BDGS	85	6Y6	G	KOPI	93
6SV7	G	7-BDRI	48	6Y7	G	PI	48-2
6SV7	G	378-jf	44	"	G	7-MO	48-2
6SZ7	G	17-KNI	86	6Z3/1V	G	OQI	98
"	G	378-MN	31	6Z4/84	G	OHJ	98
"	G	378-GT	31	"	G	EHJ	98
6T6	G	bnqi	100-2#	6ZY5	G	OHT	98

*Do not connect side stud.
**Shows short on positions 1, 2 and 3.
#Test for glow only.
/Connect side stud of adaptor to pin 2 of 5-pin socket.

TUBE	FIL	KEYS	INDEX
6ZY5	G	FS	98
7A4	G	NQS	72
7A5	G	LNQS	90
7A6	G	MO	98
"	G	RI	98
7A7	G	LNGT	64
7A8	G	MOGT	50
7AD7	G	LNGT	72
7AF7	G	PI	72
"	G	MO	72
7AG7	G	LNGT	44
7AH7	G	LNGT	47
7AJ7	G	LNGT	55
7AK7	G	LNGT	79
7B4	G	NHT	83
7B5	G	LNGT	77
7B6	G	LN	81
"	G	GT	36
"	G	HT	36
7B7	G	LNGT	63
7B8	G	BNGT	50
7C4/1203	G	KOGT	45
7C5	G	LNGT	84
7C6	G	LN	80
"	G	GT	36
"	G	HT	36
7C7	G	LNGT	50
7E5/1201	G	18-BO	72
7E6	G	AN	70
"	G	GT	36
"	G	HT	36
7E7	G	NGT	58
"	G	7-AD	36
"	G	7-LD	36
7F7	G	PI	51-2
"	G	MO	51-2
7F8	G	1278-QI	56
"	G	1278-BO	56
7G7/1232	G	BNGT	72
7G8/1206	G	6-LNFI	53
7G8/1206	G	6-ADGJ	53
7H7	G	LNGT	58
7J7	G	7-LO	53
"	G	BNGT	48
7K7	G	KO	85
"	G	GT	36
7K7	G	HT	36
7L7	G	BNGT	55
7N7	G	MO	75
"	G	PI	75
7Q7	G	CNRI	70
7R7	G	NGT	50
"	G	7-AD	36
"	G	7-LD	36
7S7	G	MOGT	68
"	G	ngt	45
7T7	G	MOGT	68
7V7	G	CNFS	72-2
7W7	G	7-LNGT	65
7X6	G	8-RI	97
"	G	8-O	97
7X7	G	LN	81
"	G	4-GT	40
"	G	HT	40
7Y4	G	7-O	98
"	G	RI	98
7Z4	G	7-O	98
"	G	RI	98
10	H	OQJ	57
12A	F	OQJ	75
12A4(C)	I	48-KD	40
12A5	I	56-KO	86
12A6	I	AOHT	75
12A7	I	FI	98
"	I	7-AO	73
12A8	I	KOPI	64
12AH7	I	7-MO	63
"	I	47-GI	63
"	I	7-N	95-2
12AL5	I	248-IF	41
"	I	248-HJ	41
12AT6	I	1248-AET	30
"	I	12348-FJ	36
"	I	12348-QJ	36
12AT7(C)	I	CE	89*
"	I	JG	89*
12AU6	I	1248-LNPS	55
12AU7(C)	I	CE	89*
"	I	JG	89*
12AV6	I	1248-AET	50-2
"	I	12348-FJ	36
"	I	12348-QJ	36

*Do not connect side stud.

TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
12AV7(C)	I	CE	86*	12SC7	I	167-AD	87
" (C)	I	JG	86*	"	I	17-MNHS	87
12AW6	I	1248-MNPS	56	12SF5	I	17-KES	40-2
12AX4	I	BDS	95-2	12SF7	I	17-MNI	69
12AX7(C)	I	CE	89*	"	I	37-QT	10
"	I	JG	89*	12SG7	I	KNGJ	56
12AY7(C)	I	CE	85*	12SH7	I	5-KNGJ	53
"	I	JG	85*	12SJ7	I	BNGJ	64
12AZ7(C)	I	CE	84	12SK7	I	BNGJ	74
"	I	JG	84	12SL7	I	17-CDGS	87
12B4(C)	I	48-KD	40	"	I	17-BDGS	87
12B7	I	LNGT	64	12SN7	I	17-CDGS	92
12B8	I	KO	65	"	I	17-BDGS	92
"	I	GS	50-2	12SQ7	I	17-KNI	85
12BA6	I	1248-CEPS	71	"	I	378-MN	36
12BA7(C)	I	3-KOIJ	74	"	I	378-GT	36
12BD6	I	1248-MNPS	60	12SR7	I	17-KNI	90
12BE6	I	1248-MNFS	50	"	I	378-MN	36
12BF6	I	1248-AET	62	"	I	378-GT	36
"	I	12348-FU	35	12SW7	I	17-KNI	90
"	I	12348-QJ	35	"	I	378-MN	36
12BH7(C)	I	CE	92*	"	I	378-GT	36
" (C)	I	JG	92*	12SY7	I	KOFT	50
12BK6	I	1248-AET	25-2	12X4(Y)	I	5-BEFT	95-2
"	I	12348-FJ	37	12V6	I	GT	38
"	I	12348-QJ	32	12Z3	I	OQI	98
12BY7(C)	I	BO	95-2	14A4	I	NQS	72
12BZ7(C)	I	CE	80	14A5	I	LNQS	90
"	I	JG	80	14A7	I	LNGT	64
12C8	I	OHT	55	14AF7	I	PI	72
"	I	GT	36	"	I	MO	72
"	I	7-BD	36	14B6	I	LN	81
12E5	I	OPI	72	"	I	GT	36
12F5	I	EPI	48-2	"	I	HT	36
12H6	I	BO	98	14B8	I	BNGT	50
"	I	FS	98	14C5	I	LNGT	84
12J5	I	OPI	75	14C7	I	LNGT	50
12J7	I	KORI	54	14E6	I	AN	70
12K7	I	KOPI	60	"	I	GT	36
12K8	I	KOPI	79	"	I	HT	36
"	I	PI	64	14E7	I	NGT	58
12L8	I	6-CEIR	74	"	I	7-AD	36
"	I	6-CDJP	74	"	I	7-LD	36
12Q7	I	OPI	50-2	14F7	I	PI	51-2
"	I	RI	36	"	I	MO	51-2
"	I	7-BD	36	14F8	I	1278-QI	56
12SA7	I	KOFT	50	"	I	1278-BO	56

*Do not connect side stud.

TUBE	FIL	KEYS	INDEX
14H7	I	LNGT	58
14J7	I	7-LO	75
"	I	BNGT	48
14N7	I	MO	75
"	I	PI	75
14Q7	I	CNRI	70
14R7	I	NGT	50
"	I	7-AD	36
"	I	LD	36
14S7	I	MOGT	68
"	I	ngt	45
14V7	I	LNGT	54
14W7	I	7-LNGT	65
14X7	I	LN	81
"	I	4-GT	40
"	I	HT	40
14Y4	I	7-O	98
"	I	RI	98
15	D	KOQI	50
18	I	AOPT	74
19	D	LO	30
"	D	RS	30
19BG6	J	7-AEFJ	96
19C8(D)	J	QT	38
"	J	46-FT	38
"	J	AD	38
"	J	6-LD	38
19J6(D)	J	1248-DFJ	88
"	J	1248-OQJ	84
19J6	I	1248-DFJ	67
"	I	1248-OQJ	60
19T8(D)	J	QT	44
"	J	46FT	44
"	J	AD	44
"	J	6LD	44
19V8	J	GJ	38
"	J	HT	38
"	J	RT	38
"	J	QJ	38
20	E	OHT	40
22	E	OHI	42
24-A	E	KOQI	53
25A6	J	KOPI	86
25A7	J	8-PI	98
"	J	57-KO	85
25AC5	J	ORI	90
25B5	J	EGJ	94
25B6	J	KOPI	94
25B8	J	KO	66
"	J	HS	89
25BQ6	J	8-KOPI	90
25C6	J	KOPI	94
25L6	J	KOPI	92
25N6	J	ERI	94
"	J	ORI	88
25W4	J	7-BDS	100
25W6GT	Jv	KOQI	92
25Y5	J	BO	98
"	J	FS	98
25Z5	J	BO	98
"	J	GS	98
25Z6	J	BO	98
"	J	GS	98
26	C	OFT	70
26A6	J	1248-CEPS	72
26C6	J	1248-AET	60
"	J	12348-FJ	32
"	J	12348-QJ	32
26D6	J	1248-MNFS	46
27	E	MOQI	72
28D7	J	6-KE	90
"	J	AS	90
30	D	OFT	64
31	D	OFT	86
32	D	OHI	46
32L7	K	8-I	98
"	K	57-KO	92
33	D	MOHI	74
34	D	OHI	50
35/51	E	KOQI	60
35A5	K	LNQS	90
35B5	K	1248-AEFSø	90
35C5	K	248-GJ	32
35L6	K	KOPI	92
35W4	K	1248-RS	98//
35Y4	K	NQS	98
35Z3	K	NFS	98
35Z4	K	FS	98
35Z5	K	FS	98
35Z6	K	BO	98

øShows short on position 2.
//Shows short on position 1.

TUBE	FIL	KEYS	INDEX
35Z6	K	FS	98
36	G	KOQI	53
37	G	MOQI	73
38	G	KOQI	74
39/44	G	KOQI	55
40	F	OFT	45-2
40Z5	M	FS	98
41	G	KOPT	85
42	G	KOPT	74
43	J	KOPT	86
45	E	OFT	90
45Z3	M	MO	98
45Z5	M	FS	98
46	E	MOHI	80
47	E	MOHI	70
48	K	KOPT	90
49	D	MOHI	81
50	H	OFT	86
50A5	M	LNQS	92
50B5ø	M	1248-AEFSø	94
50C5	M	248-HI	97
50C6	M	KOPI	94
50L6	M	KOPI	92
50X6	M	8-AO	99
"	M	7-FI	99
50Y6	M	BO	98
"	M	FS	98
50Y7	M	BO	99
"	M	FS	99
50Z7	M	BO	98
52	G	7-S	98
53	E	HJ	45
"	E	5-MO	45
55	E	OHJ	76
"	E	5-BD	36
"	E	GJ	36
56	E	MOQI	70
56AS	G	MOQI	70
57	E	KOGJ	54
57AS	G	KOGJ	54
58	E	KOGJ	72
58AS	G	KOGJ	72
59	E	KOHT	82
70L7	O	8-J	98
"	O	56-KO	93
71A	F	OFT	90
75	G	RT	36
"	G	5-MN	36
"	G	OPT	42-2
76	G	MOQI	70
77	G	KOGJ	54
78	G	KOGJ	64
79	G	GS	42-2
"	G	6-LO	42-2
80	F	O	97
"	F	S	97
81	H	O	96
82	E	O	98
"	E	S	98
83	F	O	98
"	F	S	98
83V	F	O	98
"	F	S	98
84/6Z4	G	OHJ	98
"	G	EHJ	98
85	G	OHJ	76
"	G	5-BD	36
"	G	GJ	36
85AS	G	MOHJ	52
"	G	356kogi	30
"	G	gj	30
89	G	AOPT	85
99	E	OPI	45
117L7	Q	8-I	98
"	Q	MOGT	90
117M7	Q	8-I	98
"	Q	MOGT	90
117N7	Q	56-AO	75
117P7	Q	56-AO	75
117Z3	Q	1248-GS	98
117Z4	Q	FS	98
117Z6	Q	BO	98
182-482B	F	OFT	86
183-483	F	OFT	91
485	E	KOPI	85
585	E	OFT	86
807	G	8-ADGJ	93-2
864	C	BOFT	51
879/2X2A	E	8	75
950	D	MOHI	74
951-1B4	D	OHI	46
954(E)	G	ADPI	54

øShows short on position 2.

TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
955(E)	G	MOHT	63	5670(C)*	G	24IQ	95-2
956(E)	G	ADPI	57	" (C)*	G	24KN	95-2
957(E)	B	MO	62-2	5686(C)	G	8-O	98
958(E)	B	MO	56	5687(C)	G	57-CEHI	95-2
959(E)	B	ADPI	39	5687(C)	G	25-CEH	94-2
1201-7E5	G	18-BO	72	5691	G	17-CDGS	87
1203-7C4	G	KOGT	45	"	G	17-BDGS	87
1221	G	KOGJ	54	5692	G	17-CDGS	92*
1223	G	KOGT	54	"	G	17-KNI	92
1229	E	OHI	51	5693	G	BNGJ	64
1231	G	BNGT	74	5719	G	236-AEPT	38
1232-7G7	G	BNGT	72	5725	G	1248-MNPS	46
1273	G	TNGL	50	5726	G	248-IF	42
1280	I	TNGL	50	"	G	248-HJ	42
1291-3B7	G	3-NHJ	40	5749	G	1248-CEPS	67
"	C	JP	15	5750	G	1248-MNFS	37
1299-3D6	C	6-LN	45	5751(C)*	I	CE	83
1603	G	KOGJ	50	" (C)*	I	JG	83
1609	C	MOHI	77	5814(C)*	I	CE	90
1611	G	KOPI	78	" (C)*	I	JG	90
1612	G	KOPI	52	5844	G	1248-DFJ	82
1613	G	KOPI	78	"	G	1248-OQJ	82
1614	G	KOPI	90	5879	G	JOKS	87
1620	G	KORI	54	5899	G	236-AT	53
1621	G	KOPI	73	5915	G	1248-MNFS	44
1622	G	KOPI	90	5963(C)*	I	CE	92
1625	I	78-KOHI	91	" (C)*	I	JG	92
1626	I	OPI	90	5964	G	1248-DFJ	80
1629	I	LOQI	64-2	"	G	1248-OQJ	80
"	I	bnqi	100-2#	6005	G	1248-LITE	97ø
1631	I	KOPI	90	6080	G	17-KN	98
1632	I	KOPI	92	"	G	17-EGS	98
1633	J	17-CDGS	92	6082	J	17-KN	97
"	J	17-BDGS	92	"	J	17-EGS	98
1634	J	167-AD	87	7000	G	KORI	54
"	J	17-MNHS	87	7700	G	KOGT	54
1635	G	7-AO	81	8016	C	8	47
"	G	8-RI	81	9001	G	1248-MNPS	48
1644	I	6-CEIR	74	9002	G	1248-RS	68
"	I	6-CDJP	74	9003	G	1248-MNPS	51
1851	G	KOPI	60	9004(E)	G	4MO	100
1852	G	LOGJ	66	9006	G	1248-CD	97
1853	G	ADGJ	62	CE220	E	8	88
2051	G	OHT	98	FM1000	G	3-BEGT	50
5654	G	1248-MNPS	60	XXB	E	I	35

#Test for glow only.
*Connect side stud of adaptor to any pin #1.
*Do not connect side stud.
øShows short on position 2.

TUBE	FIL	KEYS	INDEX
XXB	E	O	35
XXD	I	MO	54
"	I	PI	54
XXL	G	NQS	74
XXFM	G	AN	25-2
"	G	4-GT	36
"	G	HT	36

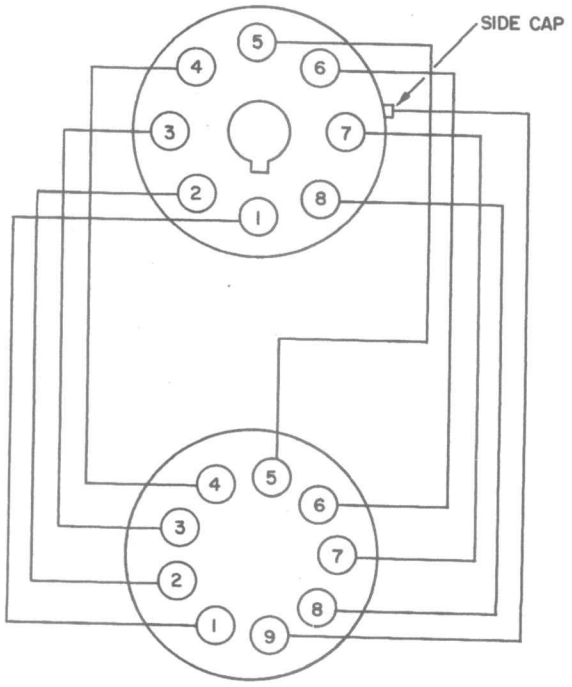


Fig. 1 (A) SJA-004 9-Pin Miniature Tube Adaptor

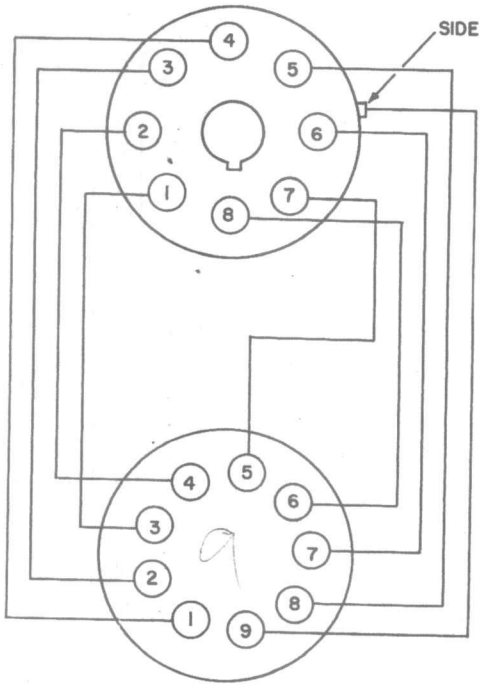


Fig. 2 (C) SJA-006 9-Pin Miniature Tube Adaptor

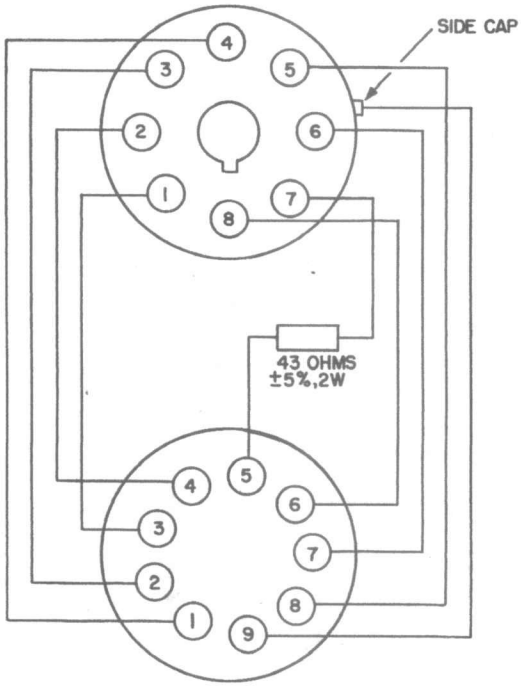


Fig. 3 (D) SJA-007 9-Pin Miniature Tube Adaptor

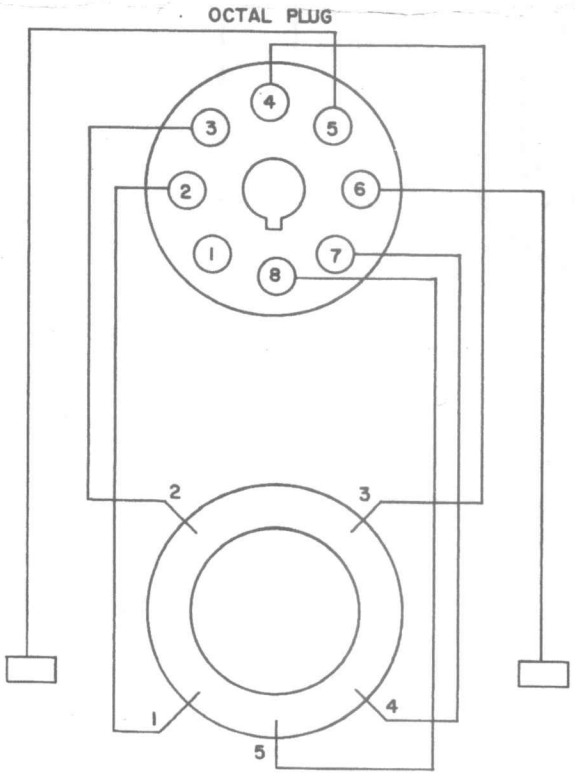


Fig. 4 (E) SJA-009 Acorn Tube Adaptor

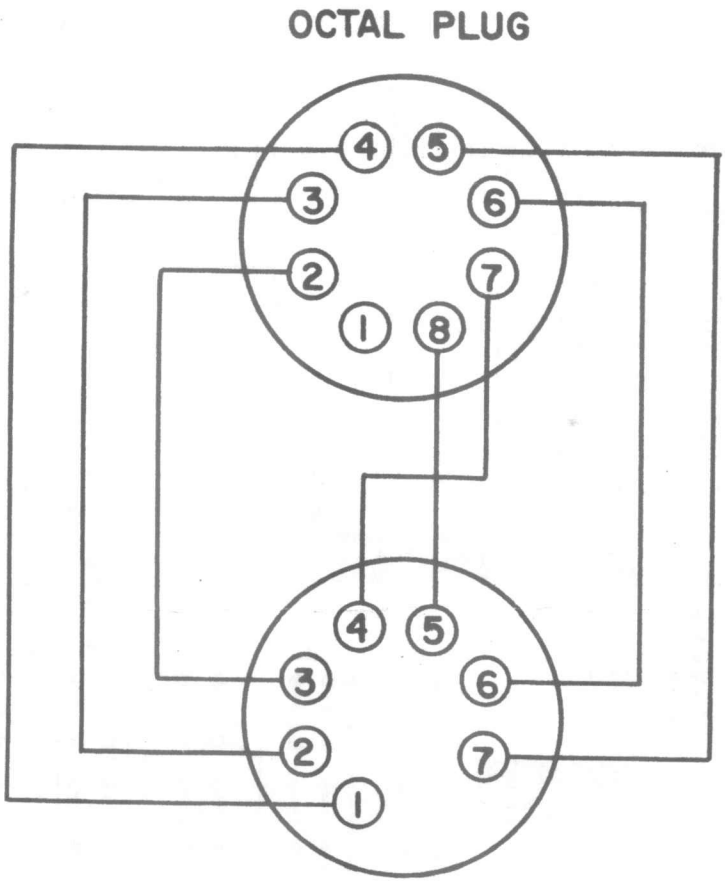
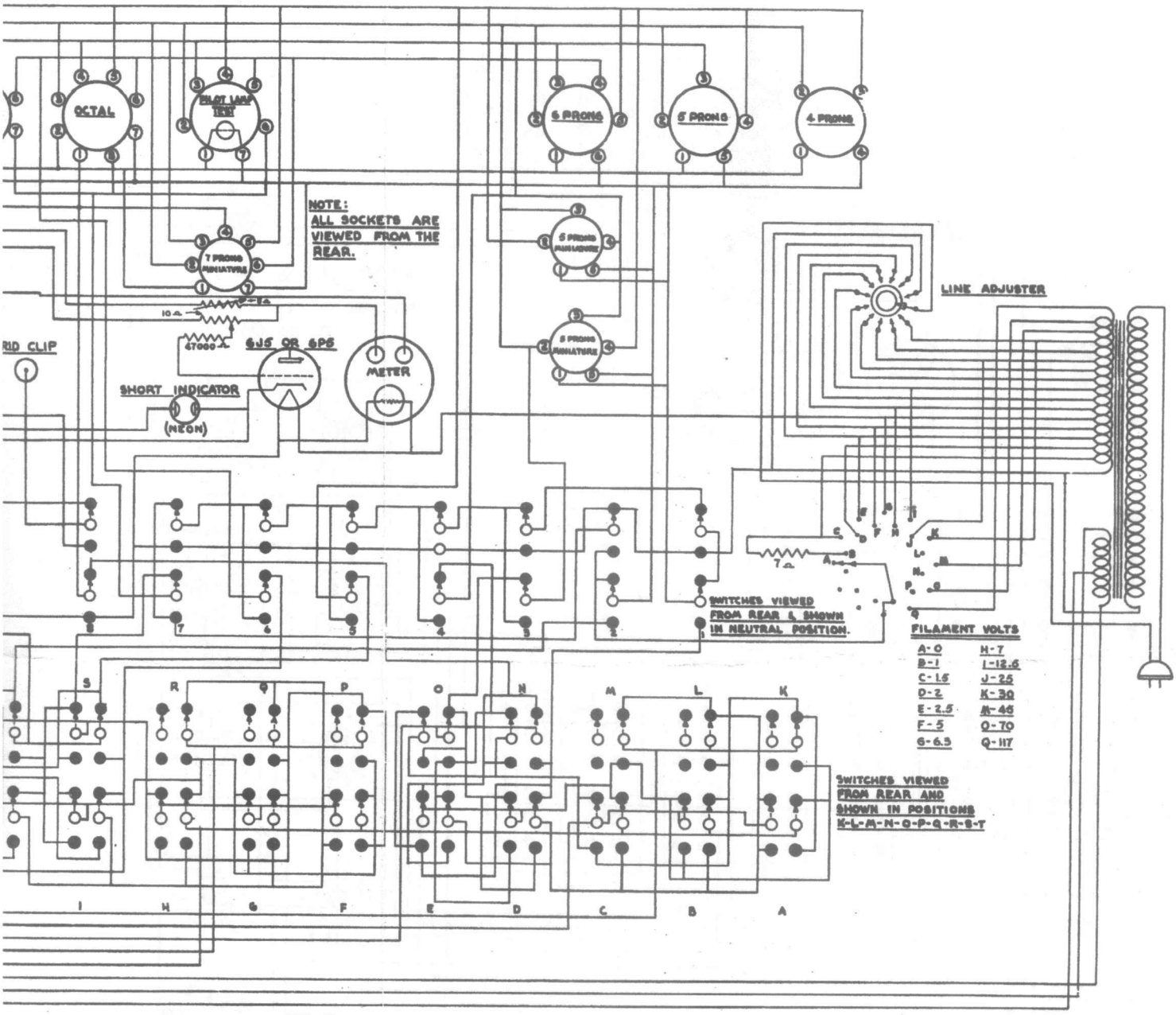


Fig. 5 (Y) 7-Pin Miniature Tube Adaptor



WITCH SHOWN IN 1ST. OUTPUT (PC)
N. CONNECTIONS ARE VIEWED
THE REAR.

Fig. 6 Elementary Diagram, Tube Checker, Model TC-3A

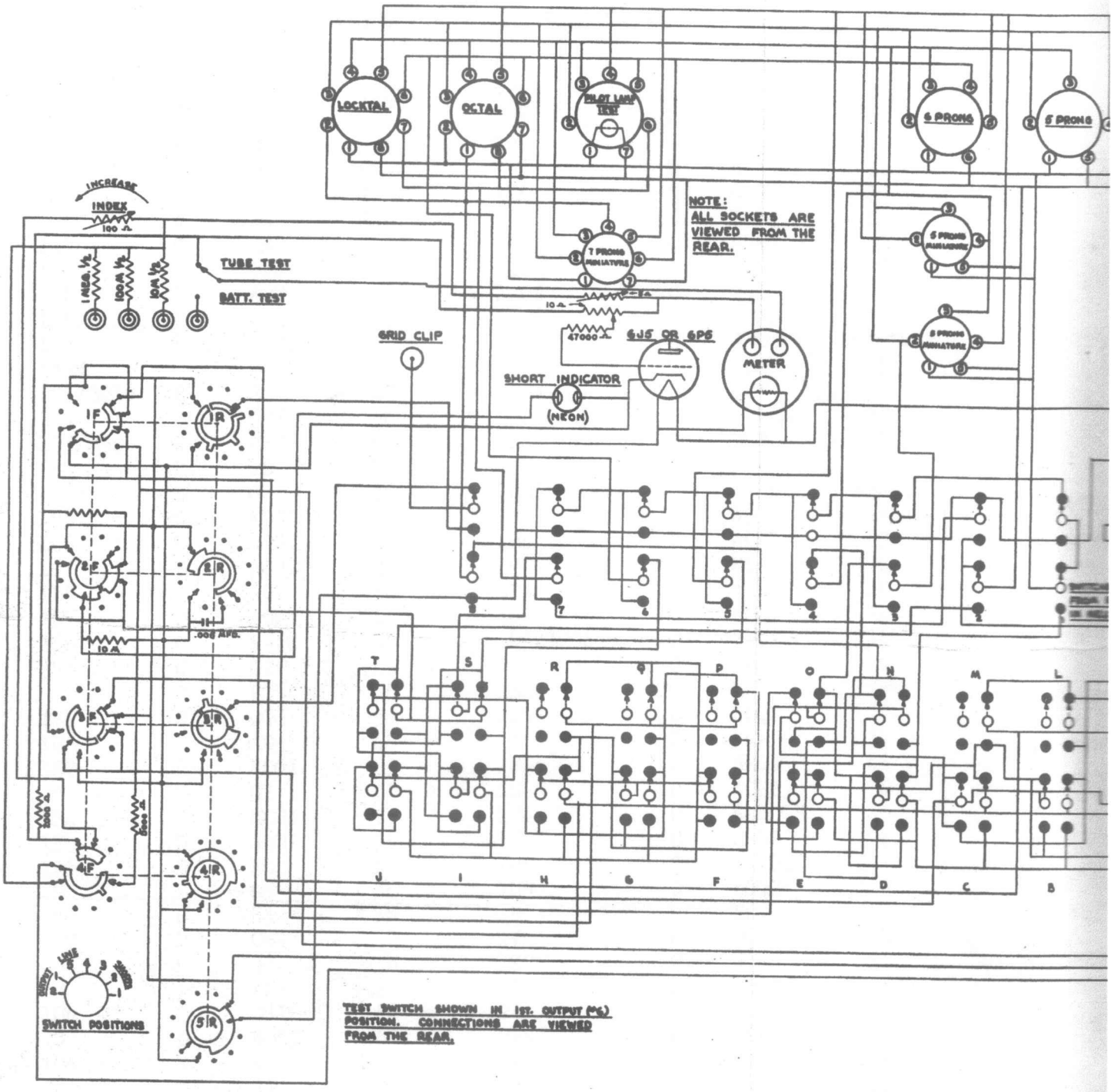

LOCKTAL
OCTAL
PILOT LAMP TEST
6 PRONG
5 PRONG
7 PRONG MINIATURE
6 PRONG MINIATURE
5 PRONG MINIATURE
NOTE:
ALL SOCKETS ARE VIEWED FROM THE REAR.
INCREASE
INDEX
100 Ω
1 MEG. Vs.
100K Vs.
10K Vs.
TUBE TEST
BATT. TEST
10 Ω
47000 Ω
6J5 OR 6P6
METER
GRID CLIP
SHORT INDICATOR
(NEON)
1F
1R
2F
2R
.002 MFD.
10 Ω
3F
3R
300 Ω
4F
4R
5R
SWITCH POSITIONS
TEST SWITCH SHOWN IN 1ST. OUTPUT (MC) POSITION. CONNECTIONS ARE VIEWED FROM THE REAR.
T
S
R
Q
P
O
N
M
L
J
I
H
G
F
E
D
C
B

Fig. 6 El

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REVISED TUBE CHART FOR TC-3A Sheet 1

TUBE	FIL	KEYS	INDEX
00A	F	ORJ	54
01-A	F	ORJ	54
0A4	E	AOS	88-2
0Z4	A	ORJ	86-2
"	A	QS	86-2
1A3	C	LN	36
1A4	D	OFJ	50
1A5	C	AOFT	56
1A6	D	AOGT	43
1A7	C	AOQJ	25
1AB5	C	BN	12
1B3/8016	C	8	47
1B4	D	OHI	46
1B5/25S	D	OFJ	89
"	D	BD	36
"	D	GJ	36
1C5	C	KOGI	74
1C6	D	AOGT	45
1C7	D	AOHT	45
1D5	D	AO	50
1D7	D	AOHT	45
1D8	C	5-AO	68
"	C	GI	45
"	C	PT	36
1E4	C	OGI	58
1E5	D	AO	48
1E7	D	MOGI	65
"	D	GI	50
1F4	D	MOHI	55
1F5	D	AOGI	55
1F6	D	AO	40
"	D	GT	36
"	D	HT	36
1F7	D	OHT	40
"	D	GT	36
"	D	AO	36
1G4	C	OGI	66
1G5	D	KOGI	68
1G6	C	AO	89
"	C	RI	89
1H4	D	OGI	64
1H5	C	OHI	54-2
"	C	HI	36-2
1H6	D	ORT	89
"	D	MN	36
"	D	GT	36

TUBE	FIL	KEYS	INDEX
1J5	D	KOGI	70
1J6	D	AO	91
"	D	HI	91
1L4	C	5-AOQS	35
1LA4	C	LNFJ	56
1LA6	C	BNPJ	29
1LB4	C	BNGJ	81
1LC5	C	BNI	97
1LC6	C	BNPJ	40
1LD5	C	6-LN	61-2
"	C	LD	23
1LE3	C	NPT	50
1LG5	C	5-ANHT	35
1LH4	C	NHT	83
"	C	AO	36
1LN5	C	6-LN	55-2
1N5	C	AO	54-2
1N6	C	AOFT	53
"	C	HT	36
1P5	C	AO	10
1Q5	C	KOGI	74
1R4/1294	C	7-CN	34
1R5	C	5-AO	40
1S4	C	LO	78
1S5	C	LOQS	10
"	C	3ao	34
1SA6	C	BNQJ	46
1SB6	C	AOPS	70
1T4	C	5-AOQS	46
1T5	C	KOGI	74
1U4	C	5-AOQS	53-2
1U5	C	AOQS	15
"	C	BD	40
1V	G	OQI	98
1Z2	C	8	71
2A3	E	BOFT	93
2A4	E	OGI	98
2A5	E	KOPT	76
2A6	E	OPT	42-2
"	E	RT	36
"	E	5MN	36
2A7	E	KOQS	68
2B6	E	OGT	75
"	E	7-ERJ	60
2B7	E	7-AO	56
"	E	GT	36
"	E	HT	36

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Revised Tube Chart for TC-3A Sheet 2

Missing Page

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REVISED TUBE CHART FOR TC-3A Sheet 3

TUBE	FIL	KEYS	INDEX
6AT6	G	1248-AET	30
"	G	12348-FJ	36
"	G	12348-QJ	36
6AU6	G	1248-LNPS	55
6AV6	G	1248-AET	50-2
6AV6	G	12348-FJ	36
6AV6	G	12348-QJ	36
6B4	G	OGI	93
6B5	G	EGJ	92
"	G	OGJ	85
6B6	G	OPI	42-2
"	G	7-MN	36
"	G	GT	36
6B7	G	7-AO	56
"	G	GT	36
"	G	HT	36
6B8	G	OHT	56
"	G	GT	36
"	G	7-BD	36
6BA6	G	1248-CEPS	71
6BD6	G	1248-MNPS	61
6BE6	G	1248-MNFS	50
6BF6	G	1248-AET	62
6BF6	G	12348-FJ	35
6BF6	G	12348-QJ	35
6BG6	G	8-AEFJ	96
6BH6	G	1248-MNPS	54
6BJ6	G	1248-MNPS	62
6C4	G	1248-RS	75
6C5	G	OPI	60
6C6	G	KOCJ	54
6C7	G	7-O	54
"	G	GT	36
"	G	HT	36
6C8	G	BO	40
"	G	PI	40
6D4	G	1248-FI	35
6D6	G	KOPT	62
6D7	G	AOHT	65
6D8	G	KOPI	65
6E5	G	LOQI	64-2
6E6	G	5-KO	94
"	G	GJ	94
6E7	G	AOHT	64
6F5	G	EPI	44-2
6F6	G	KOPI	78
6F7	G	7-KO	60
"	G	QS	44
6F8	G	PI	76
"	G	BO	76
6G6	G	KOPI	72
6H4	G	KOPI	45
6H5	G	MOPT	55-2
"	G	bnqi	100-2*
6H6	G	BO	98
"	G	FS	98
6J5	G	OPI	72
6J6	G	1248-DFJ	84
"	G	1248-OQJ	84
6J7	G	KORI	54
6J8	G	KOPI	80
6J8	G	KOHT	50
6J8	G	HT	20
6K5	G	OGT	10
6K6	G	KOPI	80
6K7	G	KOPI	60
6K8	G	KOPI	79
"	G	PI	64
6L5	G	OPI	72
6L6	G	KOPI	90
6L7	G	KOPI	52
6N6	G	EGT	92
"	G	OGT	85
6N7	G	PI	45
"	G	7-MO	45
6P5	G	OPI	72
6Q7	G	OPI	50-2
"	G	RI	36
"	G	7-BD	36
6R7	G	OPI	65
"	G	RI	36
"	G	7-BD	36
6S7	G	AORI	68
6S8	G	7-DM	30
"	G	7BD	30
"	G	57-AD	30
"	G	7-FI	34-2
6SA7	G	KOFT	50
6SB7Y	G	KOFT	53
6SC7	G	167-AD	87
"	G	17-MNHS	87

*Test for glow only.

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REVISED TUBE CHART FOR TC-3A

TUBE	FIL	KEYS	INDEX
6SD7	G	CDGJ	65
6SE7	G	BNGJ	68
6SF5	G	17-KES	40-2
6SF7	G	17-MNI	69
"	G	37-QT	10
6SG7	G	KNGJ	56
6SH7	G	KNGJ	53
6SJ7	G	BNGJ	64
6SK7	G	BNGJ	74
6SL7	G	17-CDGS	87
6SL7	G	17-BDGS	87
6SN7	G	17-CDGS	92
"	G	17-BDGS	92
6SQ7	G	17-KNI	85
"	G	378-MN	36
"	G	378-GT	36
6SR7	G	17-KNI	90
6SR7	G	378-MN	36
"	G	378-GT	36
6SS7	G	BNGJ	68
6SU7	G	17-CDGS	85
"	G	17-BDGS	85
6SV7	G	7-BDRI	48
"	G	378-jf	44
6T6	G	bnqi	100-2*
6U5	G	LOFI	48
6U6	G	AOPI	92
6U7	G	KOPI	64
6V6	G	KOPI	83
6V7	G	OPI	76
"	G	RI	36
"	G	MN	36
6W5	G	FS	98
"	G	OPI	98
6W7	G	KOPI	54
6X4	G	DRS	98
"	G	HI	98
6X5	G	FS	98
"	G	OPI	98
6Y5	G	6-E	98
"	G	HS	98
6Y6	G	KOPI	93
6Y7	G	PI	48-2
"	G	7-MO	48-2
6Z3/1V	G	OQI	98
6Z4/84	G	OHJ	98
"	G	EHJ	98
6ZY5	G	OHT	98
"	G	FS	98
7A4	G	NQS	72
7A5	G	LNQS	90
7A6	G	MO	98
"	G	RI	98
7A7	G	LNGT	64
7A8	G	MOGT	50
7AF7	G	PI	72
"	G	MO	72
7AG7	G	LNGT	44
7B4	G	NHT	83
7B5	G	LNGT	77
7B6	G	LN	81
"	G	GT	36
"	G	HT	36
7B7	G	LNGT	63
7B8	G	BNGT	50
7C4/1203	G	KOGT	45
7C5	G	LNGT	84
7C6	G	LN	80
"	G	GT	36
"	G	HT	36
7C7	G	LNGT	50
7E5/1201	G	18-BO	72
7E6	G	AN	70
"	G	GT	36
"	G	HT	36
7E7	G	NGT	58
"	G	7-AD	36
"	G	7-LD	36
7F7	G	PI	51-2
"	G	MO	51-2
7F8	G	1278-QI	56
"	G	1278-BO	56
7G7/1232	G	BNGT	72
7G8/1206	G	6-LNFI	53
7G8/1206	G	6-ADGJ	53
7H7	G	LNGT	58
7J7	G	7-LO	53
"	G	BNGT	48
7K7	G	KO	85
"	G	GT	36
"	G	HT	36

*Test for glow only.

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TUBE	FIL	KEYS	INDEX	TUBE	FIL	KEYS	INDEX
7L7	G	BNGT	55	12H6	I	BO	98
7N7	G	MO	75	"	I	FS	98
"	G	PI	75	12J5	I	OPI	75
7Q7	G	CNRI	70	12J7	I	KORI	54
7R7	G	NGT	50	12K7	I	KOPI	60
"	G	7-AD	36	12K8	I	KOPI	79
"	G	7-LD	36	"	I	PI	64
7S7	G	MOGT	68	12L8	I	6-CEIR	74
"	G	ngt	45	"	I	6-CDJP	74
7T7	G	MOGT	68	12Q7	I	OPI	50-2
7V7	G	CNFS	72-2	"	I	RI	36
7W7	G	7-LNGT	65	"	I	7-BD	36
7X7	G	LN	81	12SA7	I	KOFT	50
"	G	4-GT	40	12SC7	I	167-AD	87
"	G	HT	40	"	I	17-MNHS	87
7Y4	G	7-O	98	12SF5	I	17-KES	40-2
"	G	RI	98	12SF7	I	17-MNI	69
7Z4	G	7-O	98	"	I	37-QT	10
"	G	RI	98	12SG7	I	KNGJ	56
10	H	OQJ	57	12SH7	I	5-KNGJ	53
12A	F	OQJ	75	12SJ7	I	BNGJ	64
12A5	I	56-KO	86	12SK7	I	BNGJ	74
12A6	I	AOHT	75	12SL7	I	17-CDGS	87
12A7	I	FI	98	"	I	17-BDGS	87
"	I	7-AO	73	12SN7	I	17-CDGS	92
12A8	I	KOPI	64	"	I	17-BDGS	92
12AH7	I	7-MO	63	12SQ7	I	17-KNI	85
"	I	47-GI	63	"	I	378-MN	36
12AL5	I	248-IF	41	"	I	378-GT	36
"	I	248-HJ	41	12SR7	I	17-KNI	90
12AT6	I	1248-AET	30	"	I	378-MN	36
"	I	12348-FJ	36	"	I	378-GT	36
"	I	12348-QJ	36	12SW7	I	17-KNI	90
12AU6	I	1248-LNPS	55	"	I	378-MN	36
12AW6	I	1248-MNPS	56	"	I	378-GT	36
12B7	I	LNGT	64	12SY7	I	KOFT	50
12B8	I	KO	65	12Z3	I	OQI	98
"	I	GS	50-2	14A4	I	NQS	72
12BA6	I	1248-CEPS	71	14A5	I	LNQS	90
12BE6	I	1248-MNFS	50	14A7	I	LNGT	64
12C8	I	OHT	55	14AF7	I	PI	72
"	I	GT	36	"	I	MO	72
"	I	7-BD	36	14B6	I	LN	81
12E5	I	OPI	72	"	I	GT	36
12F5	I	EPI	48-2	"	I	HT	36

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TUBE	FIL	KEYS	INDEX
14B8	I	BNGT	50
14C5	I	LNGT	84
14C7	I	LNGT	50
14E6	I	AN	70
"	I	GT	36
"	I	HT	36
14E7	I	NGT	58
"	I	7-AD	36
"	I	7-LD	36
14F7	I	PI	51-2
"	I	MO	51-2
14F8	I	1278-QI	56
"	I	1278-BO	56
14H7	I	LNGT	58
14J7	I	7-LQ	75
"	I	BNGT	48
14N7	I	MO	75
"	I	PI	75
14Q7	I	CNRI	70
14R7	I	NGT	50
"	I	7-AD	36
"	I	LD	36
14S7	I	MOGT	68
"	I	ngt	45
14V7	I	LNGT	54
14W7	I	7-LNGT	65
14X7	I	LN	81
"	I	4-GT	40
"	I	HT	40
14Y4	I	7-O	98
"	I	RI	98
15	D	KOQI	50
18	I	AOPT	74
19	D	LO	30
"	D	RS	30
20	E	OHT	40
22	E	OHI	42
24-A	E	KOQI	53
25A6	J	KOPI	86
25A7	J	8-PI	98
"	J	57-KO	85
25AC5	J	ORI	90
25B5	J	EGJ	94
25B6	J	KOPI	94
25B8	J	KO	66
"	J	HS	89

TUBE	FIL	KEYS	INDEX
25C6	J	KOPI	94
25L6	J	KOPI	92
25N6	J	ERI	94
"	J	ORI	88
25Y5	J	BO	98
"	J	FS	98
25Z5	J	BO	98
"	J	GS	98
25Z6	J	BO	98
"	J	GS	98
26	C	OFT	70
26A6	J	1248-CEPS	72
26C6	J	1248-AET	60
"	J	12348-FJ	32
"	J	12348-QJ	32
26D6	J	1248-MNFS	46
27	E	MOQI	72
28D7	J	6-KE	90
"	J	AS	90
30	D	OFT	64
31	D	OFT	86
32	D	OHI	46
32L7	K	8-I	98
"	K	57-KO	92
33	D	MOHI	74
34	D	OHI	50
35/51	E	KOQI	60
35A5	K	LNQS	90
35B5	K	1248-AEFS*	90
35L6	K	KOPI	92
35W4	K	1248RS	98**
35Y4	K	NQS	98
35Z3	K	NFS	98
35Z4	K	FS	98
35Z5	K	FS	98
35Z6	K	BO	98
"	K	FS	98
36	G	KOQI	53
37	G	MOQI	73
38	G	KOQI	74
39/44	G	KOQI	55
40	F	OFT	45-2
40Z5	M	FS	98
41	G	KOPT	85
42	G	KOPT	74
43	J	KOPT	86

*Shows short on #2 switch postion.
**Shows short on #1 switch postion.

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TUBE	FIL	KEYS	INDEX
45	E	OFT	90
45Z3	M	MO	98
45Z5	M	FS	98
46	E	MOHI	80
47	E	MOHI	70
48	K	KOPT	90
49	D	MOHI	81
50	H	OFT	86
50A5	M	LNQS	92
50B5*	M	1248-AEFS*	94
50C6	M	KQPI	94
50L6	M	KOPI	92
50X6	M	8-AO	99
"	M	7-FI	99
50Y6	M	BO	98
"	M	FS	98
50Z7	M	BO	98
52	G	7-S	98
53	E	HJ	45
"	E	5-MO	45
55	E	OHJ	76
"	E	5-BD	336
"	E	GJ	36
56	E	MOQI	70
56AS	G	MOQI	70
57	E	KOGJ	54
57AS	G	KOGJ	54
58	E	KOGJ	72
58AS	G	KOGJ	72
59	E	KOHT	82
70L7	O	8-J	98
"	O	56-KO	93
71A	F	OFT	90
75	G	RT	36
"	G	5-MN	36
"	G	OPT	42-2
76	G	MOQI	70
77	G	KOGJ	54
78	G	KOGJ	64
79	G	GS	42-2
"	G	6-LO	42-2
80	F	O	97
"	F	S	97
81	H	O	96
82	E	O	98
"	E	S	98
83	F	O	98
"	F	S	98
83V	F	O	98
"	F	S	98
84/6Z4	G	OHJ	98
"	G	EHJ	98
85	G	OHJ	76
"	G	5-BD	36
"	G	GJ	36
85AS	G	MOHJ	52
"	G	356 kogi	30
"	G	gj	30
89	G	AOPT	85
99	E	OPI	45
117L7	Q	8-I	98
"	Q	MOGT	90
117M7	Q	8-I	98
"	Q	MOGT	90
117N7	Q	56-AO	75
117P7	Q	56-AO	75
117Z3	Q	1248-GS	98
117Z4	Q	FS	98
117Z6	Q	BO	98
182-482B	F	OFT	86
183-483	F	OFT	91
485	E	KOPI	85
585	E	OFT	86
864	C	BOFT	51
879/2X2A	E	8	75
950	D	MOHI	74
951-1B4	D	OHI	46
1201-7E5	G	18-BO	72
1203-7C4	G	KOGT	45
1221	G	KOGJ	54
1223	G	KOGT	54
1231	G	BNGT	74
1232-7G7	G	BNGT	72
1291-3B7	G	3-NHJ	40
"	C	JP	15
1299-3D6	C	6-LN	45
1603	G	KOGJ	50
1609	C	MOHI	77

*Shows short on #2 switch postion.

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TUBE	FIL	KEYS	INDEX
1611	G	KOPI	78
1612	G	KOPI	52
1613	G	KOPI	78
1614	G	KOPI	90
1620	G	KORI	54
1621	G	KOPI	73
1622	G	KOPI	90
1626	I	OPI	90
[illegible]	I	LOQI	64-2
"	I	bnqi	100-2*
1631	I	KOPI	90
1632	I	KOPI	92
1633	J	17-CDGS	92
"	J	17-BDGS	92
1634	J	167-AD	87
"	J	17-MNHS	87
1635	G	7-AO	81
"	G	8-RI	81
1644	I	6-CEIR	74
"	I	6-CDJP	74
1851	G	KOPI	60
1852	G	LCGJ	66
1853	G	ADGJ	62
2051	G	OHT	98
7000	G	KORI	54
7700	G	KOGJ	54
8016	C	8	47
9001	G	1248-MNPS	48
9002	G	1248-RS	68
9003	G	1248-MNPS	51
9006	G	1248-CD	97
CE 220	E	8	88
FM 1000	G	3-BEGT	50
XXB	E	I	35
"	E	O	35
XXD	I	MO	54
"	I	PI	54
XXL	G	NQS	74
XXFM	G	AN	25-2
"	G	4-GT	36
"	G	HT	36

*Test for glow only.

TUBE	FIL	KEYS	INDEX
5915	G	1248-MNFS	44
5963 (c)*	I	CE	92
" (c)*	I	JG	92
5964	G	1248-DFJ	80
"	G	1248-OQJ	80
6005	G	1248-LITE	97**
7000	G	KORI	54
7700	G	KOGT	54
8016	C	8	47
9001	G	1248-MNPS	48
9002	G	1248-RS	68
9003	G	1248-MNPS	51
9004 (e)	G	4MO	100
9006	G	1248-CD	97
CE220	E	8	88
FM1000	G	3-BEGT	50
XXB	E	I	35
"	E	O	35
XXD	I	MO	54
"	I	PI	54
XXL	G	NQS	74
XXFM	G	AN	25-2
"	G	4-GT	36
"	G	HT	36

*Do not use side stud
**Shows short on position 2