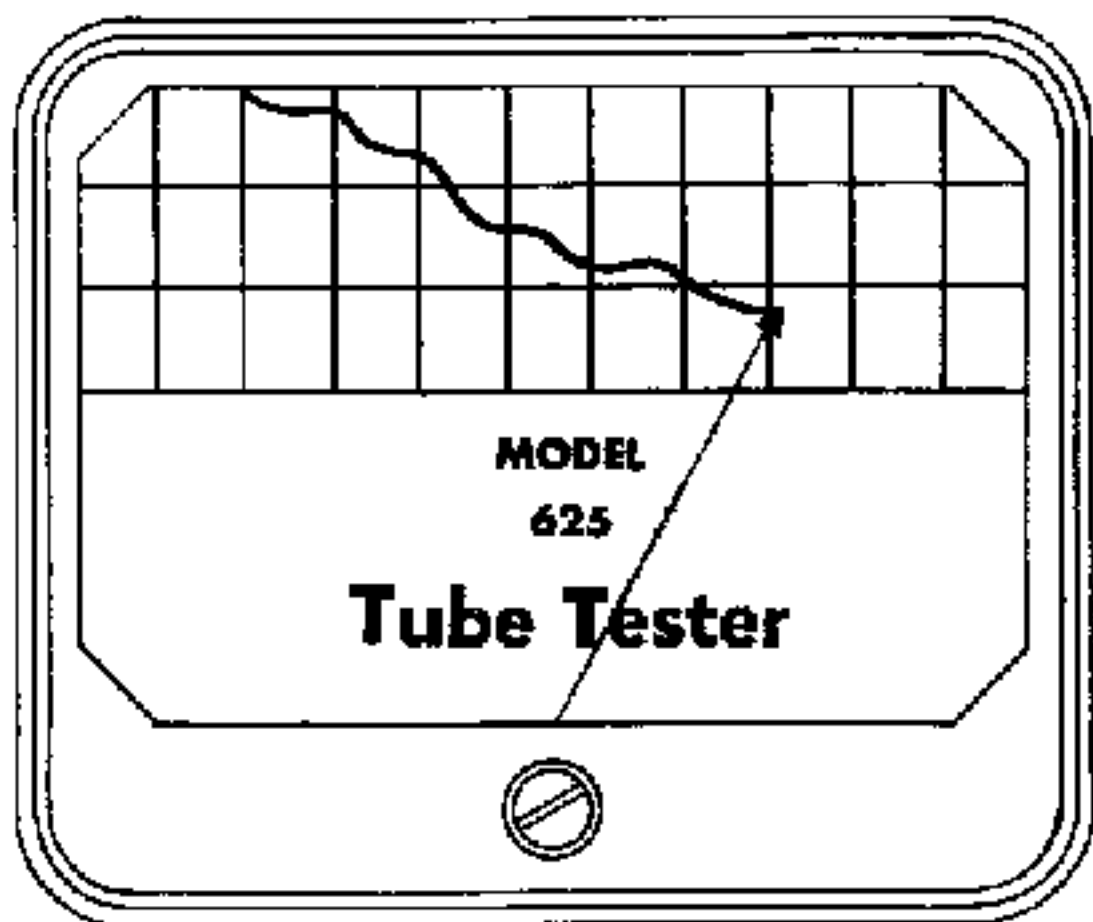


**INSTRUCTION  
MANUAL  
FOR**



**EICO**

**ELECTRONIC  
INSTRUMENT CO., Inc.**

# EICO TUBE TESTER MODEL 625

## DESCRIPTION

The Model 625 Tube Tester has been designed to test practically all current radio and television receiving and a number of commonly encountered transmitting tubes. With this basic purpose in mind, concentration is next placed on simplicity of operation and circuit flexibility regarding new or future tubes.

## SPECIAL FEATURES:

- (1) Tests practically all tubes as described above.
- (2) Speed type lever switches- speed and accuracy.
- (3) Individual tube element testing. Specially designed against obsolescence to accomodate future tubes.
- (4) Circuit overload bulb- indicates overload on transformer.
- (5) Short test- indicates shorted tube elements.
- (6) Large- easy-to-read meter.
- (7) Illuminated- no backlash- speed roll chart- simplifies reading and finding of tubes.
- (8) Lifetime etched, rub-proof panel.
- (9) Durable steel carrying case.
- (10) Electrical specifications:  
105- 125V AC, 50-60 cycles.
- (11) Mechanical specifications: 12½" wide;  
5½" deep; 11½" high.

## OPERATION

Testing a tube is merely a simple series of steps.

NOTE: Do not plug tube into socket until all controls are set.

- (1) TUBE NUMBER: Select the tube number under the heading marked "TUBE" on the roll chart.
- (2) SHUNT: Adjust the SHUNT CONTROL on the panel to the number marked on the roll chart.
- (3) FILAMENT: Set the FILAMENT switch to the same value as shown on the chart.\*
- (4) SELECTOR: Set the SELECTOR SWITCH as indicated on the roll chart.

The next two columns are for the 10 lever switches and refer to their "up" and "down" positions. UNLESS OTHERWISE INDICATED LEAVE ALL SWITCHES IN THEIR CENTER POSITION.

- (5) UP: Move lever switches numbered on "up" column of roll chart to the "up" position.
- (6) DOWN: Move lever switches numbered on "down" column of roll chart to the "down" position.
- (7) Insert tube in proper socket and turn power on.
- (8) LINE ADJUST: (a) Set SELECTOR switch to "Line Adj." position. (b) Adjust LINE ADJUST potentiometer until meter reads within a division of "Line."
- (9) SHORT: Neon bulb will light after preceding step only if a short is present. Do not test a shorted tube any further as damage will result. (See SHORT TEST instructions which follow.)

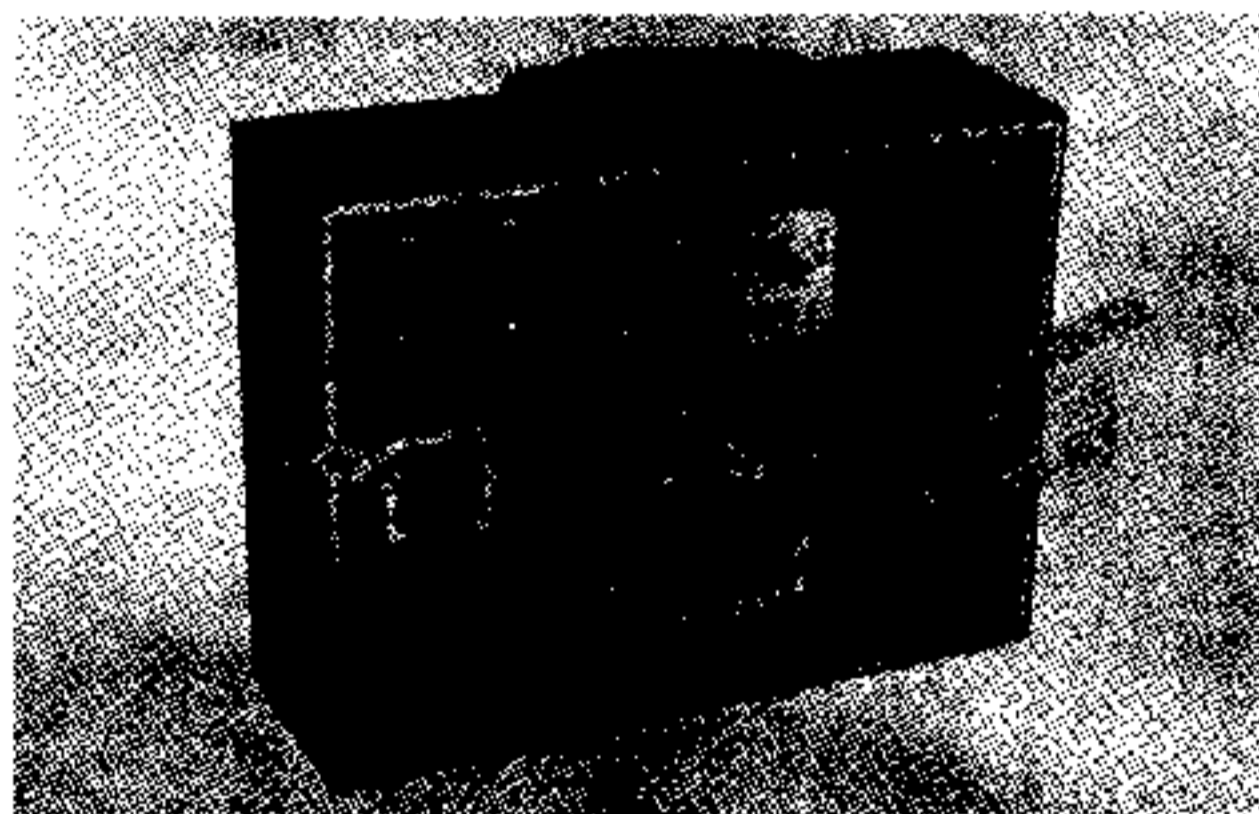
\* Since the FILAMENT selector will apply any voltage selected to a tube under test, care should be taken to check this setting in order that no higher than rated voltage be applied. Disregarding this may cause burning out of the tube under test. This is true in all tube testers.

- (10) MERIT SWITCH: Depressing this switch will indicate the condition of the tube.

Example. Testing a 6J5 tube:

Under the roll chart heading of 6J5, the following adjustments appear:

TUBE	SHUNT	FIL	SEL	UP	DOWN
6J5	24	6.3	2	3,5	7,8



If more than one listing is given on the roll chart (6SQ7, 6J6, etc.) it is because the tube under test is multipurpose. The procedure is to test the first row of figures, then reset and test the second, third, etc. If any test shows bad, the tube is defective.

### GRID CAPS

The EICO Model 625K has been designed with two grid caps, a feature usually available only in more expensive equipment, since many tubes

are so provided. Note: In all cases, except those tubes requiring 2 grid caps, the right side cap will be used. The right side grid cap is controlled by lever switch #10; the left side grid cap by lever switch #9.

### OVERLOAD

The OVERLOAD bulb is an extremely important feature for a tube tester. It indicates transformer overload. In the event a tube with a shorted filament were inserted into a tube tester which does not have this feature, the transformer would tend to overheat and possibly burn out. In the EICO Model 625, a filament short will be indicated by the OVERLOAD bulb lighting. In this case the tube under test should immediately be removed.

Note: On occasion the bulb may light instantaneously when the AC plug is inserted. This is a case of surge and may be ignored.

### SHORT

To test for tube element shorts, the lever switches (only those included on the roll chart) must be individually moved through their entire range and then returned to the position originally indicated on the roll chart. Please note that each switch has 3 positions, "down, center and up." Therefore, if a switch is in the center position it should be moved "up," then "down" stopping for an instant in each position and finally returned to the original position.

As a further example, if the switch were originally in the "down" position the lever would be thrown to the center, then to the "up" and back to its original "down" position. If the neon "SHORT" indicator lights in any position the tube has leakage or is shorted. **DO NOT MOVE LEVERS IN BOLD TYPE.**

## REPLACE, WEAK, GOOD

If a tube reads in the "REPLACE" region, it has low emission and should be replaced. If it reads in the "WEAK" region, it is questionable, but probably operative. If it reads in the "GOOD" region, the tube has proper emission. The 0-1000 scale on the meter is for tube matching.

TUBE MERIT: This is a momentary contact switch and when depressed indicates the emission characteristic of the tube.

PILOT LIGHT TEST: Pilot lights may be tested by selecting the proper filament voltage on the FILAMENT switch and inserting the pilot light into the center of the large 7 prong socket.

### FILAMENT CONTINUITY:

You will note that several of the numbers on the roll chart are in bold type; these correspond to the levers which are connected to the tube filaments. Move each of the levers in bold print one at a time to the "up" position and back to the original position. The neon bulb Short indicator will light in the "up" position if the filaments are intact.

OPEN ELEMENT TEST: With "MERIT" switch depressed, move each of the levers that are in the "up" position, one at a time to the center position and back. The meter reading should dip greatly for the control grid of the tube and slightly for the screen, suppressor and plate elements. If no change is observed, the element is probably open.

NEW TUBES: EICO, in accordance with its recognized policy of protecting all instruments against obsolescence will periodically issue new roll charts and data sheets. If you will send your name and a self-addressed

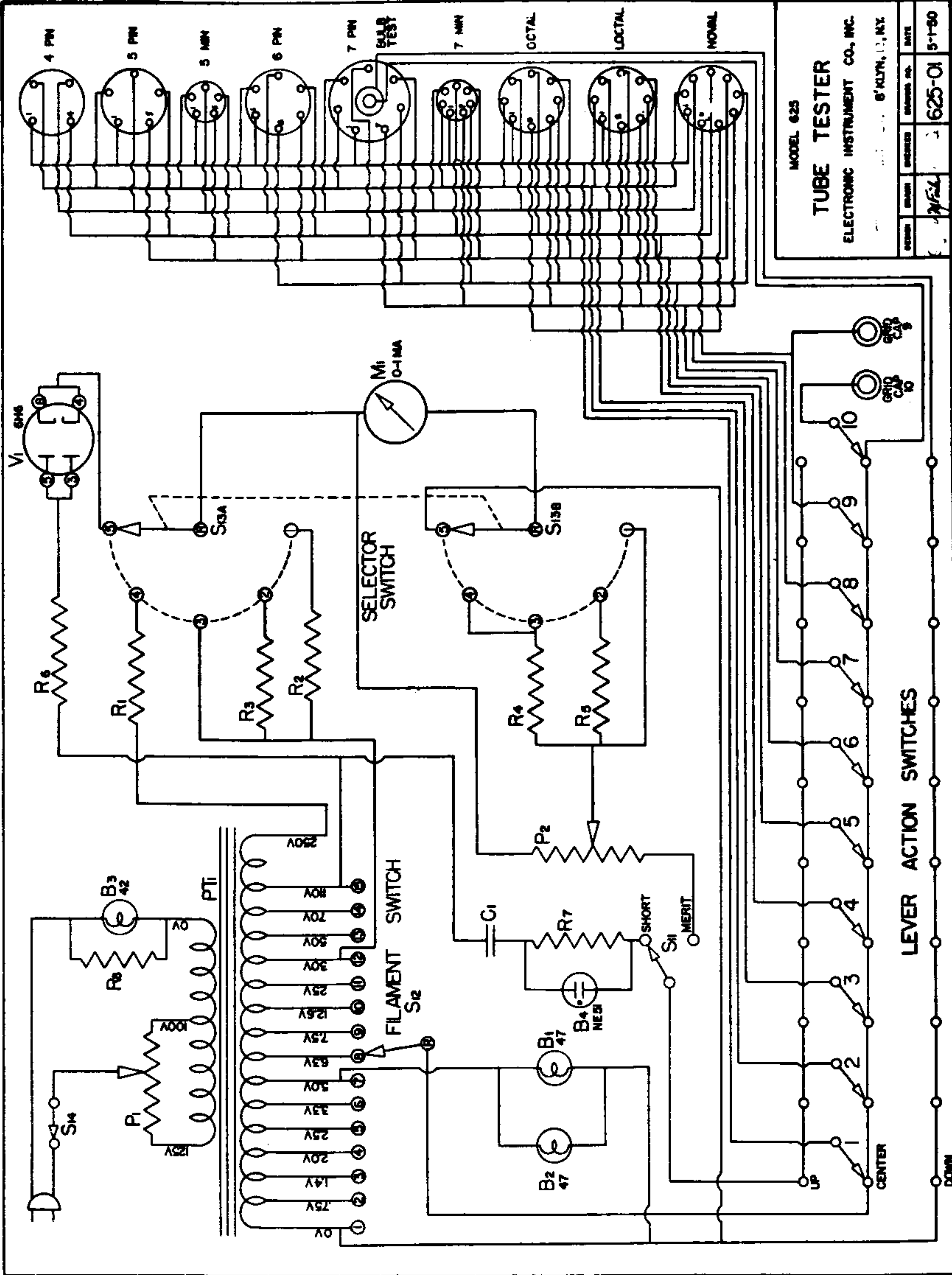
envelope, you will be notified when the new charts are available and their cost. The latter will be nominal.

Although it is possible for the serviceman to develop the settings for new tubes, it is not recommended due to the extra equipment necessary.

For an interim period, "between the old and new roll charts," the following procedure may be used for determining the settings for new tubes.

- (1) Move all levers to the "down" position.
- (2) Move either one of the filament levers to the center position.
- (3) Move the grid, screen, suppressor and plate levers to the "up" position.
- (4) If the normal current rating of the tube is between zero and 3 ma. use position 1 on the SELECTOR switch; position 2 for tubes from 3-15 ma; position 3 for filament type above 15 ma; position 4 for gaseous and magic eye tubes.
- (5) Move the FILAMENT switch to the proper filament voltage.
- (6) Starting with the SHUNT control at zero, depress the MERIT switch and gradually increase the "Shunt" setting until the meter reads approximately 800.
- (7) Check several other tubes and use the average "SHUNT" reading for the "SHUNT" setting.

GUARANTEE: - The Electronic Instrument Company guarantees to replace any part or component which proves defective under normal use within 90 days of purchase date.



MODEL 625  
**TUBE TESTER**  
 ELECTRONIC INSTRUMENT CO., INC.  
 6 KILYN, N.Y.

REVISION	DATE	DRAWING NO.	DATE
1	5-1-60	625-01	5-1-60

PART #	SYMBOL	SPECIFICATION
1	B1	#47 PILOT LIGHT
1	B2	#47 PILOT LIGHT
2	B3	#42 OVERLOAD
3	B4	NB-51 SHORT IND.
4	C1	.01 MFD COND.
47	M1	0-1 MA METER
48	P1	100-200 OHM 25W. POT.
49	P2	200 OHM POT.
51	R1	2500 OHM 5W RES.
52	R2	4700 OHM 5% RES.
53	R3	820 OHM 5% RES.
54	R4	1600 OHM 5% RES.
55	R5	510 OHM 5% RES.
56	R6	95K OHM 1% RES.
57	R7	500K OHM RES.
58	R8	3-5 OHM RES.
59	S1-S10	SPTT LEVER ACTION
60	S11	SPDT PUSH BUTTON
61	S12	SP 15 POS. FIL. SW.
62	S13	DP 5 POS. SEL. SW.
63	S14	SPST ON-OFF SW.
64	V1	6H6 TUBE



# New Tube Tester Data

## EICO Model 625

Radio And Television News - May, 1956

Tube	Shunt	Filament	Selector	Up	Down
3BZ6	22	3.3	2	1, 5, 6	2, 3, 7
5BE8	23	5.0	2	1, 2	3, 4
"	23	5.0	2	6, 7, 9	4, 8
6AZ8	21	6.3	2	1, 6	2, 3, 5
"	16	6.3	1	8, 9	5, 7
6BA8	26	6.3	2	2, 3	1, 4
"	24	6.3	2	7, 8	4, 6
6BC8	20	6.3	2	1, 2	3, 4
"	20	6.3	2	6, 7	4, 8
6BE8	23	6.3	2	1, 2	3, 4
"	23	6.3	2	6, 7, 9	4, 8
6BH8	24	6.3	2	2, 3	1, 4
"	24	6.3	2	7, 8, 9	4, 6
6BZ6	22	6.3	2	1, 5, 6	2, 3, 7
6CB5	20	6.3	3	1, 4, 5, 8, 10	2, 3, 6
6CG7	16	6.3	1	1, 2	3, 4
"	16	6.3	1	6, 7	4, 8
6CM7	100	6.3	1	1, 2	3, 4
"	22	6.3	1	6, 7	4, 8
6CN7*	29	3.3	3	7, 8	4, 5, 6
"	14	3.3	1	2	3, 4, 5
"	14	3.3	1	1	3, 4, 5
6CS7	25	6.3	2	1, 3	4, 9
"	28	6.3	2	6, 7	4, 8
6DE6	20	6.3	2	1, 5, 6	2, 3, 7
12BV7*	35	6.3	3	7, 8	1, 3, 4, 5, 9
12C5	19	12.6	3	2, 5, 6, 7	1, 3
19AU4	25	12.6	2	5	3, 7
EF86/Z-729	26	6.3	2	1, 6, 9	3, 4, 8

\*Revised Data

**STOP****STOP**

0A2	41	0	4	1,5	2,4,7
	(Good=100)				
0A3/VR75	31	0	4	5	2,3,7
	(Good=100)				
0B2	100	0	4	1,5	2,4,7
	(Good=100)				
0B3/VR90	31	0	4	5	2,3,7
	(Good=100)				
0C3/VR105	31	0	4	5	2,3,7
	(Good=100)				
0D3/VR150	31	0	4	5	2,3,7
	(Good=100)				
0Z4	22	0	4	5	3,8
"	22	0	4	3	5,8
1A5	40	1.4	2	3,4,5	2
1A7	12	1.4	1	5,6	2
"	53	1.4	1	3,4,10	2
1AB4	13	1.4	1	2,3,6	1,5
1AE5	15	1.4	1	1,2,4,5	3
1AF4	15	1.4	1	2,3,6	1,5
1AH4	13	1.4	1	1,2,4	3
	(No open element test on lever 1)				
1AX2	98	1.4	4	10	2,5,8
	(May show short on 1,4,6,9,— Good=250)				
1B3	55	1.4	1	10	2
	(May show short on 1,3,5,7,8— Good=260)				
1B8	53	1.4	2	8	2
"	60	1.4	2	6,10	2
"	32	1.4	1	3,4,5	2
1C5	37	1.4	2	3,4,5	2
1E3	31	1.4	3	1,8	3,5
1G4	17	1.4	1	3,5	2
1G6	20	1.4	1	3,4	2
"	20	1.4	1	5,6	2
1H5	32	1.4	1	5	2
"	19	1.4	1	3,10	2
1L4	37	1.4	2	2,3,6	1,5
1L6	19	1.4	1	3,4	1
"	21	1.4	1	2,5,6	1
	(Good=400 on Test 2)				
1LA4	40	1.4	2	2,3,6	1
1LA6	17	1.4	1	3,4	1
"	53	1.4	1	2,5,6	1
	(Good=400 on Test 2)				
1LB4	40	1.4	2	2,3,6	1
1LB6	18	1.4	1	2 to 7	1
1LC5	18	1.4	1	2,3,4,6	5,8
1LC6	18	1.4	1	3,4	1
"	45	1.4	1	2,5,6	1
1LD5	18	1.4	1	2,3,6	1
"	53	1.4	1	4	1
	(Good=200 on Test 2)				
1LE3	37	1.4	2	2,6	1
	(May show short on 5)				
1LG5	35	1.4	2	2,3,6	4,5,8
1LH4	19	1.4	1	2,6	1
"	53	1.4	1	4	1
	(Good=200 on Test 2)				
1LN5	40	1.4	2	2,3,4,6	5,8
1N5	16	1.4	1	3,4,10	2
1P5	18	1.4	1	3,4,10	2
1Q5	33	1.4	2	3,4,5	2
1R5	12	1.4	1	4	1,5
"	53	1.4	1	2,3,6	1,5
1S4	30	1.4	2	2,3,4,6	1,5
1S5	23	1.4	1	4,5,6	1
"	31	1.4	1	3	1
	(Good=300 on Test 2)				
1T4	35	1.4	2	2,3,6	1,5
1T5	40	1.4	2	3,4,5	2
1U4	35	1.4	2	2,3,6	1,5
1U5	40	1.4	2	2,3,6	1
"	37	1.4	1	4	1

884/6Q5	20	6.3	4	3,5	2,8
807	27	6.3	3	2,3,10	1,4
521AX	17	1.4	1	1,2,4	5
520AX	17	1.4	1	1,2,4	5
504X	20	1.4	1	3,4,5	7
503X	20	1.4	1	3,4,5	7
502X	20	1.4	1	3,4,5	7
502A/ GL502A	19	6.3	3	3,5,6	7,8
501X	20	1.4	1	3,4,5	7
117Z6	18	110	3	3	2,4
"	18	110	3	5	2,8
117Z4	17	110	3	5	2,8
117Z3	25	110	3	1,5	3,6
117N7	19	110	3	3,4,5	6,7,8
"	15	110	3		7,8
	(Allow tube to heat up. Return lever 7 to top position. Good tube will kick to 700)				
117L7/	26	110	3	3,4,5	2,8
117M7	21	110	3	6	1,2
80	55	5	3	2	1
"	55	5	3	3	1
70L7	20	70	3	3,4,5	2,6
"	18	70	3	8	1,2
50Z7*	26	25	3	3	4,2,7
"	26	25	3	5	2,7,8
50Z6	21	50	3	5	2,8
"	21	50	3	3	2,4
50Y7**	21	50	3	3	4,6,7
"	21	50	3	5	6,7,8
50Y6	22	50	3	3	2,4
"	22	50	3	5	2,8
50X6	19	50	3	3	1,2
"	19	50	3	6	1,7
50L6	17	50	3	3,4,5	2,8
50CA5	19	50	3	2,5,6,7	1,3
50C6	22	50	3	3,4,5	2,8
50C5	18	50	3	2,5,6,7	1,3
50B5	20	50	3	1,5,6,7	2,3
50A5	18	50	3	2,3,6	1,7
45Z5**	20	32	3	5	2,3,8
45Z3	25	50	3	2,6	1,4
40Z5**	20	32	3	5	2,3,8
35Z5**	17	32	3	5	2,3,8
35Z4	17	32	3	5	2,8
35Z3	17	32	3	2	1,7
35Y4**	20	32	3	2	1,4,7
35W4**	20	32	3	5	4,6,7
35L6	20	32	3	3,4,5	2,8
35C5	21	32	3	2,5,6,7	1,3
35B5	20	32	3	1,5,6,7	2,3
32L7	21	32	3	3,4,5	2,8
"	17	32	3	6	1,2
25Z6	21	25	3	3	2,4
"	21	25	3	5	2,8
25Z5	22	25	3	2	1,3
"	22	25	3	5	1,4
25Y5	31	25	3	2	1,3
"	31	25	3	5	1,4
25Y4	26	25	3	5	2,8
25X6	28	25	3	3	2,4
"	28	25	3	5	2,8
25W4	19	25	3	5	3,7
25L6	17	25	3	3,4,5	2,8
25CU6	20	25	3	4,5	2,8
25CD6	18	25	3	5,8,10	2,3
25CA5	20	25	3	2,5,6,7	1,3
25C6	26	25	3	3,4,5	2,8
25BQ6	21	25	2	4,5,10	2,8
25AV5	19	25	3	1,5,8	2,3
20J8	13	12.6	1	5,6	2,8
"	11	12.6	1	3,4,10	2,8
19X8	21	25	2	1,7,8,9	4,6
"	22	25	2	2,3	4,6

1T5	40	1.4	2	3,4,5	2	20J8	13	12.6	1	5,6	2,8
1U4	35	1.4	2	2,3,6	1,5	"	11	12.6	1	3,4,10	2,8
1U5	40	1.4	2	2,3,6	1	19X8	21	25	2	1,7,8,9	4,6
"	37	1.4	1	4	1	"	22	25	2	2,3	4,6
1U6	19	1.4	1	3,4	2,5,6,7	19X3	27	25	2	1,6	3,4
"	23	1.4	1	2,5,6	3,4,7	19V8	21	25	2	7	4,8
				(Good=300 on Test 2)		"	12	25	1	2	3,4
1V2	85	75	4	1,9	4	"	22	25	1	9	3,4
				(May show short on 2,3,5,6,7,8)		"	22	25	3	8,9	1,2,3,4,6,7
1X2/A	69	1.4	4	10	2,5,8	"	10	25	1	2	1,3,4,6,7,8,9
1Z2	51	1.4	1	10	1,3,4,6	"	10	25	1	6	1,2,3,4,7,8,9
				(May show short on 2,5,7—		"	10	25	1	1	2,3,4,6,7,8,9
				Good=300)							
2AF4	19	2.5	3	1,2,6,7	4,5	19T8	19	25	3	9	3,4
2C26	36	6.3	3	10	7,8	19J6	24	12.6	2	1,6	3,7
2C51	23	6.3	2	3,4	1,2	"	24	12.6	2	2,5	3,7
"	23	6.3	2	6,7	1,8	19C8	14	12.6	1	8,9	4,7
2V2	100	1.4	4	10	2	"	13	12.6	1	1	4,7
				(Good=250)		"	13	12.6	1	6	4,7
				(May show short on 2,4,5,6,7,8)		"	13	12.6	1	2	4,3
2X2/A/	46	2.5	4	10	4	19BG6	22	12.6	3	5,8,10	2,3
879						17	41	12.6	3	2,3	4,5
2X3	46	2.5	3	4	8	16A5	19	12.6	3	2,7,9	3,4
3A4*	26	1.4	2	2,3,4,6	1,7	15A6/PL83	11	12.6	1	1,2,6,7	3,5
3A5*	30	1.4	2	2,3	4	14Y4	29	12.6	3	3	1,7
"	30	1.4	2	5,6	4	"	29	12.6	3	6	1,7
3A8*	20	1.4	1	3,4,10	2,7	14X7	11	12.6	1	2,3	1,4,7
"	20	1.4	1	5,6	2,7	"	11	12.6	1	5	1,4,7
"	25	1.4	1	8	2,7	"	24	12.6	2	6	1,4,7
3AL5	15	3.3	1	7	1,3					(Good=300)	
"	15	3.3	1	2	3,5	14W7	22	12.6	2	2,3,6	1,4,5,7
3AU6	24	3.3	2	1,2,5,6	3,7	14V7	19	12.6	3	2,3,6	1,4,7
3AV6	25	3.3	3	1,7	2,3	14S7	28	12.6	2	3,4	1,7
"	41	3.3	1	5	2,3	"	24	12.6	2	2,5,6	1,7
"	35	3.3	1	6	2,3	14R7	10	12.6	1	2,5,6	1,7
3BA6	23	3.3	2	1,2,5,6	3,7	"	28	12.6	1	3	1,7
3BC5	18	3.3	3	1,5,6	2,3,7	"	28	12.6	1	4	1,7
3BE6	25	3.3	2	1	2,3	14Q7	25	12.6	2	3,4	1,7
"	32	3.3	2	5,6,7	2,3	"	30	12.6	2	2,5,6	1,7
3BN6	100	3.3	1	2,5,6,7	1,3	14N7	26	12.6	2	3,4	1,2
				(Good=400)		"	26	12.6	2	5,6	1,7
3BY6	25	3.3	2	1,5,6,7	2,3	14J7	32	12.6	2	2,3,5	1,6,7
3C4	13	1.4	1	2,3,6	1,7	"	34	12.6	3	2,5,6	1,7
3C5*	34	1.4	2	3,4,5	2,7	14H7	22	12.6	2	2,3,6	1,4,7
3C6/XXB*	40	1.4	2	3,4	1,8	14F8	22	12.6	3	1,3	2,4
"	40	1.4	2	5,6	1,8	"	22	12.6	3	6,8	2,5
3CB6	17	3.3	3	1,5,6,7	2,3	14F7	11	12.6	1	3,4	1,2
				(No open element test on lever 5)		"	11	12.6	1	5,6	1,7
3CS6	24	3.3	2	1,5,6,7	2,3	14E7	28	12.6	2	2,5,6	1,7
3D6/1299*	25	1.4	2	2,3,6	1,8	"	33	12.6	1	3	1,7
3E5*	31	1.4	2	2,3,6	1,7	"	33	12.6	1	4	1,7
3E6*	26	1.4	2	2,3,4,6	1,8	14E6	32	12.6	3	2,3	1,4,7
3LE4*	34	1.4	2	2,3,6	1,8	"	37	12.6	1	5	1,4,7
3LF4*	27	1.4	2	2,3,6	1,8	"	37	12.6	1	6	1,4,7
3Q4*	33	1.4	2	2,3,4,6	1,7	14C7	28	12.6	2	2,3,6	1,4,7
3Q5*	28	1.4	3	3,4,5	2,7	14C5	26	12.6	3	2,3,6	1,7
3S4*	35	1.4	2	2,3,4,6	1,7	14B8	34	12.6	2	3,4	1,7
3V4*	33	1.4	2	2,3,6	1,7	"	30	12.6	2	2,5,6	1,7
4BQ7	25	3.3	2	1,2	3,4	14B6	11	12.6	1	2,3	1,4,7
"	25	3.3	2	6,7	4,8	"	22	12.6	1	5	1,4,7
4BZ7	20	5.0	2	1,2	3,4	"	22	12.6	1	6	1,4,7
"	20	5.0	2	6,7	4,8	14AF7/XXD	26	12.6	3	3,4	1,2,5,6,7
5AM8	16	5.0	1	2,3,6	1,4	"	26	12.6	3	5,6	1,2,3,4,7
5AN8	25	5.0	2	6,7,8	4,9	14A7/12B7	30	12.6	2	2,3,4,6	1,7
"	30	5.0	2	1,2	3,4	14A5	28	12.6	3	2,3,6	1,7
5AQ5	22	5.0	3	1,5,6,7	2,3	14A4	26	12.6	2	2,6	1,7
5AT8	25	5.0	2	1,2	3,4	14	30	12.6	2	2,3,10	4,5
"	23	5.0	2	6,7,8,9	3,4	12X4	12	12.6	1	1	3,7
5AV8	25	5.0	2	6,7,8	4,9	"	12	12.6	1	6	4,7
"	35	5.0	2	1,2	3,4	12W6	18	12.6	3	3,4,5	2,8
5AX4GT	41	5.0	3	4	2	12V6	24	12.6	3	3,4,5	2,8
"	41	5.0	3	6	2	12SY7	32	12.6	2	1,3,8	2,6
5AZ4	47	5.0	3	6	2	"	26	12.6	2	4,5	2,6
"	47	5.0	3	4	2	12SX7	25	12.6	2	4,5	6,7
5BK7	16	5.0	3	6,7	4,8	"	25	12.6	2	1,2	3,7
"	16	5.0	3	1,2	3,4						
5J6	15	5.0	1	1,6	3,7						
"	15	5.0	1	2,5	3,7						



6AL5	13	6.3	1	2	3,5
"	13	6.3	1	2	3,5
6AL6	25	6.3	3	4,5,10	2,8
6AL7	22	6.3	1	1,3,4,5,6	2,8
" Eye Op	0	6.3	4	3	2,4,6,8
" Eye Cl	0	6.3	4	3	2,8
6AM4	22	6.3	2	1,3,4,5,6,9	2,7
6AM8	20	6.3	2	2,3,6	1,4
"	14	6.3	1	8	7,4
6AN4	20	6.3	2	1,2,6,7	3,5
6AN5	18	6.3	3	1,5,6	2,3,7
6AN6	20	6.3	1	2	1,6
"	20	6.3	1	3	1,6
"	20	6.3	1	4	1,6
"	20	6.3	1	5	1,6
6AN8	25	6.3	2	6,7,8	4,9
"	35	6.3	2	1,2	3,4
6AQ5	22	6.3	3	1,5,6,7	2,3
6AQ6	11	6.3	1	1,7	2,3
"	22	6.3	1	5	2,3
"	22	6.3	1	6	2,3
6AQ7	12	6.3	1	4,5	1,2,3,6,7
"	19	6.3	1	3	1,2,7
"	19	6.3	1	1	2,7
6AR5	25	6.3	3	1,5,6	2,3
6AR6	20	6.3	3	3,5,7	1,6
6AR8	19	6.3	2	3,6,8,9	1,2,5,7
6AS5	11	6.3	1	2,5,6,7	1,3
6AS6	25	6.3	2	1,5,6,7	2,3
6AS7	16	6.3	3	1,2	3,7
"	16	6.3	3	4,5	6,7
6AT6	11	6.3	1	1,7	2,3
"	20	6.3	1	5	2,3
"	20	6.3	1	6	2,3
6AT8	25	6.3	2	1,2	3,4
"	23	6.3	2	6,7,8,9	3,4
6AU4	25	6.3	2	5	3,7
6AU5	23	6.3	3	1,5,8	2,3
6AU6	26	6.3	2	1,2,5,6	3,7
6AU8	24	6.3	2	7,8,9	4,6
"	15	6.3	1	2,3	1,4
6AV5	25	6.3	2	1,5,8	2,3
6AV6	29	6.3	3	1,7	2,3
"	25	6.3	1	5	2,3
"	25	6.3	1	6	2,3
6AX4	23	6.3	3	5	3,7
6AX5	33	6.3	3	3	2,8
"	33	6.3	3	5	2,8
6AX6G	18	6.3	3	3	2,4
"	18	6.3	3	5	2,8
6AX7*	15	3.3	1	1,2	3,4,5
"	15	3.3	1	6,7	4,5,8
6B4	25	6.3	3	3,5	2
6B5	39	6.3	3	2,4	1,3,5
"	54	6.3	3	3,4	1,2,5
6B6	33	6.3	3	3,10	2,8
"	22	6.3	1	4	2,8
"	22	6.3	1	5	2,8
6B7	51	6.3	3	2,3,10	1,6
"	22	6.3	1	4	1,6
"	22	6.3	1	5	1,6
6B8	39	6.3	3	3,6,10	2,8
"	32	6.3	1	4	2,8
"	32	6.3	1	5	2,8
6BA6	23	6.3	2	1,2,5,6	3,7
6BA7	19	6.3	3	1,2	3,4,6,7,9
"	20	6.3	1	1,6,7,9	2,3,4
6BC5	18	6.3	3	1,5,6	2,3,7
6BC7	14	6.3	1	2	1,4
"	14	6.3	1	6	4,7
"	14	6.3	1	8	4,9
6BD4/A	27	6.3	1	5,10	1,2
6BD5	25	6.3	2	1,5,8	2,3
6BD6	27	6.3	2	1,2,5,6	3,7
6BD7	12	6.3	1	1,2	3,4
"	29	6.3	1	6	3,4
"	26	6.3	1	8	3,4
6BE6	22	6.3	2	1	2,3

12BA6	22	12.6	2	1,2,5,10	3,7
12B8	26	12.6	2	3,4,10	1,2
"	26	12.6	3	5,8	2,6
12B6	32	12.6	3	3,10	7,8
"	33	12.6	1	4	7,8
"	33	12.6	1	5	7,8
12B4	24	6.3	2	2,7,9	1,4,5
12AZ7*	11	6.3	1	1,2	3,4,5
"	11	6.3	1	6,7	4,5,8
12AY7*	13	6.3	1	1,2	3,4,5
"	13	6.3	1	6,7	4,5,8
12AX7*	11	6.3	1	1,2	3,4,5
"	11	6.3	1	6,7	4,5,8
12AX4	23	12.6	3	5	3,7
12AW6	22	12.6	2	1,5,6,7	2,3
				(No open element test on lever 5)	
12AV7*	21	6.3	2	6,7	4,5,8
"	22	6.3	2	1,2	3,4,5
12AV6	20	12.6	3	1,7	2,3
"	25	12.6	1	5	2,3
"	25	12.6	1	6	2,3
12AV5	25	12.6	2	1,5,8	2,3
12AU7*	25	6.3	2	1,2	3,4,5
"	25	6.3	2	6,7	4,5,8
12AU6	22	12.6	2	1,2,5,6	3,7
12AT7*	24	6.3	2	1,2	3,4,5
"	24	6.3	2	6,7	4,5,8
12AT6	27	12.6	3	1,7	2,3
"	20	12.6	1	5	2,3
"	20	12.6	1	6	2,3
12AQ5	22	12.6	3	1,5,6,7	2,3
12AL5	15	12.6	1	2	3,5
"	15	12.6	1	7	1,3
12AH7	31	12.6	3	1,3	2,7
"	31	12.6	3	5,6	4,7
12A8	36	12.6	2	5,6	2,8
"	28	12.6	2	3,4,10	2,8
7Z4	31	6.3	3	3	1,7
"	24	6.3	3	6	1,7
7Y4	24	6.3	3	3	1,7
"	24	6.3	3	6	1,7
7X7	12	6.3	1	2,3	1,4,7
"	11	6.3	1	5	1,4,7
"	12	6.3	1	6	1,4,7
7X6	21	6.3	3	3	1,2
"	21	6.3	3	6	1,7
7W7	24	6.3	2	2,3,6	1,4,5,7
7V7	18	6.3	3	2,3,6	1,4,7
7S7	33	6.3	2	3,4	1,7
"	23	6.3	2	2,5,6	1,7
7R7	22	6.3	2	2,5,6	1,7
"	28	6.3	1	3	1,7
"	28	6.3	1	4	1,7
7Q7	25	6.3	2	3,4	1,7
"	46	6.3	2	2,5,6	1,7
7N7	26	6.3	2	3,4	1,2
"	26	6.3	2	5,6	1,7
7L7	26	6.3	2	2,3,6	1,4,7
7K7	11	6.3	1	3,4	1,2
"	22	6.3	1	5	1,7
"	22	6.3	1	6	1,7
7J7	30	6.3	2	3,4,5	1,7
"	30	6.3	2	2,5,6	1,7
7H7	24	6.3	2	2,3,6	1,4,7
7G8	24	6.3	2	2,3,4	1,5,6,7
"	24	6.3	2	3,5,7	1,2,4,6
7G7/1232	24	6.3	2	2,3,6	1,4,7
7F8	22	6.3	2	1,3	2,4
"	22	6.3	2	6,8	2,5
7F7	15	6.3	1	3,4	1,2
"	15	6.3	1	5,6	1,7
7E7	32	6.3	3	2,5,6	1,7
"	22	6.3	1	3	1,7
"	26	6.3	1	4	1,7
7E6	27	6.3	2	2,3	1,4,7
"	25	6.3	1	5	1,4,7
"	25	6.3	1	6	1,4,7
7E5/1201	26	6.3	2	1,3,5,7	2,4,6

"	26	6.3	1	3,4	
6BE6	22	6.3	2	1	2,3
"	22	6.3	2	5,6,7	2,3
6BE7	11	6.3	1	1,2,6,7,9	3,4,8
				(No open element test on lever 6)	
"	17	6.3	1	6,9	3,4,8
6BF5	19	6.3	3	1,5,6,7	2,3
6BF6	29	6.3	3	1,7	2,3,5,6
"	21	6.3	1	5	1,2,3,6,7
"	21	6.3	1	6	1,2,3,5,7
6BG6	19	6.3	3	5,8,10	2,3
6BH6	22	6.3	2	1,5,6,7	2,3
6BJ6	22	6.3	2	1,5,6,7	2,3
6BJ7	16	6.3	1	2	1,4
"	16	6.3	1	6	4,7
"	16	6.3	1	8	4,9
6BK5	21	6.3	2	1,3,7,8	4,6
6BK6	14	6.3	1	1,7	2,3
"	18	6.3	1	5	2,3
"	20	6.3	1	6	2,3
6BK7	17	6.3	3	6,7	4,8
"	17	6.3	3	1,2	3,4
6BL7	23	6.3	3	1,2	3,7
"	23	6.3	3	4,5	6,7
6BN6	100	6.3	1	2,5,6,7	1,3
6BQ6	22	6.3	3	4,5,10	2,8
6BQ7	22	6.3	2	1,2	3,4
"	21	6.3	2	6,7	4,8
6BT6	12	6.3	1	1,7	2,3
"	17	6.3	1	5	2,3
"	17	6.3	1	6	2,3
6BX6/EF80	22	6.3	2	2,7,8,9	1,3,4
6BX7	18	6.3	3	4,5	6,7
"	18	6.3	3	1,2	3,7
6BY5	24	6.3	3	4	1,2
"	24	6.3	3	5	2,8
6BY6	25	6.3	2	1,5,6,7	2,3
6BZ7	21	6.3	2	6,7	4,8
"	20	6.3	2	1,2	3,4
6C4	25	6.3	2	1,5,6	3,7
6C5	30	6.3	2	3,5	2,8
6C6	12	6.3	1	2,3,10	1,4,5
6C7	12	6.3	1	2,10	1,6
"	22	6.3	1	4	1,6
"	22	6.3	1	5	1,6
6C8	27	6.3	2	3,10	2,4
"	27	6.3	2	5,6	2,8
6CA5	19	6.3	3	2,5,6,7	1,3
6CB6	18	6.3	3	1,5,6,7	2,3
				(No open element test on lever 5)	
6CD6	18	6.3	3	5,8,10	2,3
6CF6	22	6.3	2	1,5,6,7	2,3
6CJ6	17	6.3	3	1,2,6,7, 8,9,10	3,5
6CL6	17	6.3	3	2,3,6,7, 8,9	1,4
6CM6	30	6.3	3	1,3,6,9	4,7
6CR6	27	6.3	2	5,6,7	1,3
"	30	6.3	1	2	1,3
6CS6	25	6.3	2	1,5,6,7	2,3
6CU6	20	6.3	3	4,5	2,8
6D4	20	6.3	3	1,7	3,5
6D5	33	6.3	3	3,5	2,8
6D6	30	6.3	3	2,3,4,10	1,5
6D7	28	6.3	2	2,3,10	1,4,6
6D8	30	6.3	2	5,6	2,8
"	42	6.3	2	3,4,10	2,8
6E5	36	6.3	2	2,3	1,5
" Eye Cl.	0	6.3	4	2,4	1,3,5
" Eye Op.	0	6.3	4	4	1,2,3,5
6E6	32	6.3	3	2,3	1,4
"	32	6.3	3	5,6	1,4
6E7	28	6.3	2	2,3,10	1,4,6
6F5	14	6.3	1	4,10	2,8
6F6	33	6.3	3	3,4,5	2,8
6F7	46	6.3	3	2,3,10	1,6
"	90	6.3	3	4,5	1,6
7E5/1201	26	6.3	2	1,3,5,7	2,4,6
7C7	12	6.3	1	2,3,6	1,4,7
7C6	34	6.3	3	2,3	1,4,7
"	22	6.3	1	5	1,4,7
"	22	6.3	1	6	1,4,7
7C5	26	6.3	3	2,3,6	1,7
7C4/1203A	33	6.3	2	4	1,7
7B8	28	6.3	2	3,4	1,7
"	34	6.3	2	2,5,6	1,7
7B7	28	6.3	2	2,3,6	1,4,7
7B6	25	6.3	2	2,3	1,4,7
"	33	6.3	1	5	1,4,7
"	33	6.3	1	6	1,4,7
7B5	30	6.3	3	2,3,6	1,7
7B4	12	6.3	1	2,6	1,7
7AU7	27	3.3	2	1,2	3,4,5
"	27	3.3	2	6,7	4,5,8
7AK7	29	6.3	3	2,3,4,6	1,7
7AJ7	23	6.3	2	2,3,6	1,4,7
7AH7	21	6.3	2	2,3,4,6	1,7
7AG7	22	6.3	2	2,3,6	1,4,5,7
7AF7	25	6.3	2	3,4	1,2,7
"	25	6.3	2	5,6	1,2,7
7AD7	17	6.3	3	2,3,4,6	1,5,7
7AB7	27	6.3	3	1,3,5	2,4,6,8
7A8	35	6.3	2	3,4	1,7
"	44	6.3	2	2,5,6	1,7
7A7	29	6.3	3	2,3,6	1,4,7
7A6	16	6.3	1	3	1,2
"	16	6.3	1	6	1,7
7A5	18	6.3	3	2,3,6	1,7
7A4/XXL	24	6.3	2	2,6	1,7
6ZY5	33	6.3	3	3	2,8
"	33	6.3	3	5	2,8
6Z7	33	6.3	3	3,4	2,8
"	33	6.3	3	5,6	2,8
6Z5/12Z5	26	6.3	3	3	2,4,6
"	26	6.3	3	5	2,4,6
6Z4/84/ KR98	27	6.3	3	2	1,4
6Z3	25	6.3	3	2	1,3
6Y7	34	6.3	3	3,4	2,8
"	34	6.3	3	5,6	2,8
6Y6	19	6.3	3	3,4,5	2,8
6Y5	29	6.3	3	3	1,4
"	29	6.3	3	5	1,4
6Y3G	49	6.3	4	10	7
6X8	24	6.3	2	2,3	4,6
"	23	6.3	2	7,8,9	1,4,6
6X6	41	6.3	2	5	7,8
" Eye Cl.	0	6.3	4	3,4	5,7,8
" Eye Op.	0	6.3	4	4	3,5,7,8
6X5	29	6.3	3	3	2,8
"	29	6.3	3	5	2,8
6X4	26	6.3	3	1	3,7
"	26	6.3	3	6	3,7
6W7	11	6.3	1	3,4,10	2,8
6W6	21	6.3	3	3,4,5	2,8
6W5	26	6.3	3	3	2,8
"	26	6.3	3	5	2,8
6W4	19	6.3	3	5	3,7
6V8	27	6.3	2	1,6	3,4
"	21	6.3	2	7	4,8
"	12	6.3	1	2	3,4
"	22	6.3	1	9	3,4
6V7	50	6.3	3	3,10	2,8
"	28	6.3	1	4	2,8
"	28	6.3	1	5	2,8
6V6	24	6.3	3	3,4,5	2,8
6V4	26	6.3	3	2	4,5
"	26	6.3	3	3	4,5
6V3	17	6.3	3	2,7,9	4,10
6U8	22	6.3	2	1,9	4,8
"	22	6.3	2	2,3,6	4,7
6U7	30	6.3	2	3,4,10	2,5,8
6U6	20	6.3	3	3,4,5	2,8

6E7	28	6.3	2	2,3,10	1,4,6
6F5	14	6.3	1	4,10	2,8
6F6	33	6.3	3	3,4,5	2,8
6F7	46	6.3	3	2,3,10	1,6
"	90	6.3	3	4,5	1,6
6F8	24	6.3	2	3,10	2,4
"	24	6.3	2	5,6	2,8
6G5/6U5	36	6.3	2	2,3	1,5
" Eye Cl.	0	6.3	4	2,4	1,3,5
" Eye Op.	0	6.3	4	4	1,2,3,5
6G6	38	6.3	3	3,4,5	2,8
6G6G	28	6.3	2	3,4,5	2,8
6G7	38	6.3	3	2,10	3,5,7
"	14	6.3	1	4	3,7
"	14	6.3	1	6	3,7
6H5	36	6.3	2	2,3	1,5
" Eye Cl.	0	6.3	4	2,4	1,3,5
" Eye Op.	0	6.3	4	4	1,2,3,5
6H6	14	6.3	1	3	2,4
"	14	6.3	1	5	2,8
6H7S	34	6.3	3	2,3,4	6,7
"	52	6.3	2	5,10	6,7
6J4	20	6.3	2	1,5,6,7	2,3
6J5	24	6.3	2	3,5	2,8
6J6	14	6.3	1	1,6	3,7
"	14	6.3	1	2,5	3,7
6J7	29	6.3	2	3,4,10	2,5,8
6J8	25	6.3	2	3,4,10	2,8
"	25	6.3	2	5,6	2,8
6K5	13	6.3	1	3,10	2,8
6K6	26	6.3	3	3,4,5	2,8
6K7	32	6.3	2	3,4,10	2,5,8
6K8	11	6.3	1	5,6	2,8
"	11	6.3	1	4,5	2,8
"	22	6.3	1	3,10	2,8
6L5	26	6.3	2	3,5	2,8
6L6	18	6.3	3	3,4,5	2,8
6L7	56	6.3	2	4	2,8
"	26	6.3	2	3,5,10	2,8
6N4	24	6.3	2	1,5,7	2,3,6
6N5/6AB5	SEE	6AB5			
6N6	67	6.3	3	4,5	2,3,8
"	45	6.3	3	3,5	2,4,8
6N7	30	6.3	3	3,4	2,8
"	30	6.3	3	5,6	2,8
6P5	30	6.3	2	3,5	2,8
6Q5	20	6.3	4	3,5	2,8
6Q6	11	6.3	1	3,10	7,8
"	51	6.3	1	5	7,8
6Q7	12	6.3	1	3,10	2,8
"	26	6.3	1	4	2,8
"	26	6.3	1	5	2,8
6R6	44	6.3	3	3,5,10	7,8
6R7	39	6.3	3	3,10	2,8
"	19	6.3	1	4	2,8
"	19	6.3	1	5	2,8
6R8	25	6.3	2	2	3,4
"	30	6.3	2	8,9	4,7
"	11	6.3	1	1	4,7
"	11	6.3	1	6	4,7
6S4	21	6.3	3	3,6,9	2,4
6S6	25	6.3	3	1,4,10	7,8
6S7	28	6.3	2	3,4,10	2,5,8
6S8	16	6.3	1	6,10	2,7
"	22	6.3	1	1	2,7
"	22	6.3	1	4	2,7
"	22	6.3	1	3	5,7
6SA7	24	6.3	2	4,5	2,6,8
"	28	6.3	2	3,4,8	1,2,6
6SB7Y	22	6.3	2	4,5	1,2,6
"	19	6.3	1	3,4,8	2,5,6

6V3	17	6.3	3	2,7,9	4,10
6U8	22	6.3	2	1,9	4,8
"	22	6.3	2	2,3,6	4,7
6U7	30	6.3	2	3,4,10	2,5,8
6U6	20	6.3	3	3,4,5	2,8
6U5	See	6G5/6U5			
6U4	19	6.3	3	5	3,7
6U3	17	6.3	3	9	3,4
6T8	27	6.3	3	8,9	3,4,7
"	15	6.3	1	2	3,4,7
"	15	6.3	1	1	3,4,7
"	15	6.3	1	6	3,4,7
6T7	14	6.3	1	3,10	2,8
"	34	6.3	1	4	2,8
"	34	6.3	1	5	2,8
6T6M	22	6.3	2	3,4,10	7,8
6T5	14	6.3	1	2,3	1,5
" Eye Cl.	0	6.3	4	2,4	1,3,5
" Eye Op.	0	6.3	4	4	1,2,3,5
6T4	20	6.3	2	1,2,6,7	3,5
6SZ7	12	6.3	1	2,6	3,7
"	28	6.3	1	4	3,7
"	28	6.3	1	5	3,7
6SV7	23	6.3	2	2,4,6	3,7
"	28	6.3	2	5	3,7
6SU7	25	6.3	2	4,5	1,2,3,6,7
"	25	6.3	2	1,2	3,4,5,6,7
6ST7	28	6.3	2	2,6	3,7
"	39	6.3	1	4	3,7
"	39	6.3	1	5	3,7
6SS7	25	6.3	3	4,6,8	2,3,5
6SR7	30	6.3	2	2,6	3,7
"	28	6.3	1	4	3,7
"	28	6.3	1	5	3,7
6SQ7	11	6.3	1	2,6	3,7
"	22	6.3	1	4	3,7
"	22	6.3	1	5	3,7
6SN7	26	6.3	2	1,2	3,7
"	26	6.3	2	4,5	6,7
6SL7	29	6.3	3	1,2	3,7
"	29	6.3	3	4,5	6,7
6SK7	28	6.3	3	4,6,8	2,3,5
6SJ7	27	6.3	2	4,6,8	2,3,5
6SH7	22	6.3	2	4,6,8	2,3,5
6SG7	17	6.3	3	4,6,8	2,3,5
6SF7	31	6.3	3	2,4,6	3,7
"	22	6.3	1	5	3,7
6SF5	13	6.3	1	3,5	2,7
6SE7	23	6.3	2	4,6,8	2,3,5
6SD7	24	6.3	3	4,6,8	2,3,5
6SC7	31	6.3	3	2,3	6,7
"	30	6.3	3	4,5	6,7

\* Center-Tapped Filament

\*\* Filament Tapped for Panel Bulb

## MODEL 625-04

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# **K4XL's** **BAMA**

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