

**JACKSON**



*Radio Testing Equipment*

# **SPECIAL TUBE DATA**

**MODEL 648**

**THE JACKSON ELECTRICAL INSTRUMENT CO.**

**DAYTON, OHIO, U. S. A.**

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### **MODEL 648**

#### **SUBMINIATURE TYPES:**

Subminiature tubes of the flat press type are inserted in the seven pin subminiature socket with the red dot on the tube to the right to correspond with the red dot on the tester. The pins of the tube are inserted into the socket positions of like number. The socket positions number as follows left to right. (7654321•) Tubes with a base pin arrangement of an irregular nature are tested by inserting the pins according to the notation listed above the test setting for that type. The notation refers only to the seven pin flat type socket.

Tubes of the eight pin circular base arrangement are used with the eight pin circular subminiature socket. To test tubes of this type that have less than eight pins, the remaining pins are inserted into socket positions of like number of the round subminiature socket. This socket numbers 1 to 8 starting at the key and progressing in a counterclockwise direction.

When testing subminiature tubes be sure that the correct filament voltage and chart listing is set up before inserting the tube. Be sure to press only the correct test buttons listed, as an overload will usually damage tubes of the subminiature type whose ratings are necessarily very low.

The testing procedure on subminiature and other types is carried out exactly as listed in the operating instructions booklet furnished with the instrument.

## Subminiature Tube Chart Data

1AC5	1.4	58	B347	44 XY
1AD4	1.4	35	124	20 VX
1AD5	1.4	58	B347	30 VX
1AG4	1.4	35	124	20 XZ
1AG5	1.4	46	125 3	70 XY 85 X
1C8	1.4	58	A247 AC37	85 XY 84 X
First test OK above 50				
1D3	1.4	58	A46	85 VW
1E8	See 1C8			
1S6	1.4	58	B146 2	63 XY 90 X
1T6	See 1S6			
1V5	1.4	58	B347	46 XY
1W5	1.4	58	B347	97 Y
2B5	2.5	58	AC24 AC16	46 YZ 56 YZ
2E31	1.4	35	124	100 X
2E32	See 2E31			
2E35	1.4	35	124	85 X
2E36	See 2E35			
2E41	See 1AG5			
2E42	See 2E41			
2G21	1.4	47	A256 A13	100 XY 88 X
First test OK above 20				
2G22	See 2G21			
3Z2	3.3	37	9	75 V
2169				
-- H H G <sub>1</sub> K P ◦				
6AD4	6.3	C245	A13	62 X
6AD4	6.3	125	A46	62 X
Regular base				
6AK4	6.3	125	A46	45 Z
6AZ6	6.3	125 128	7 3	21 V 21 V
- G <sub>2</sub> H H G <sub>1</sub> K P ◦				
6BA5	6.3	C245	A136	20 VX
6BA5	6.3	124	A567	20 VX
Regular base				
6BF7	6.3	125 128	A47 AC36	32 V 32 V
6BG7	See 6BF7			
-- H H G <sub>1</sub> K P ◦				
6K4	6.3	C245	A13	25 V
RK61	1.4	24	A13	67 X

<b>CK502AX See 2E35</b>				
<b>CK503AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>80 X</b>
<b>CK510AX</b>	<b>.75</b>	<b>47</b>	<b>AC1236</b>	<b>100 X</b>
			<b>AB1356</b>	<b>100 X</b>
Both sections OK above 40				
<b>CK512AX</b>	<b>.75</b>	<b>35</b>	<b>124</b>	<b>100 X</b>
	This type OK above 20			
<b>CK522AX See 6088</b>				
<b>CK525AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>90 X</b>
<b>CK526AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>90 X</b>
<b>CK527AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>90 X</b>
	This type OK above 50			
<b>CK528AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>92 X</b>
<b>CK529AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>100 X</b>
<b>CK531DX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>84 X</b>
<b>CK532DX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>85 X</b>
<b>CK533AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>100 X</b>
	This type OK above 50			
<b>CK534AX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>95 X</b>
	This type OK above 30			
<b>CK535AX See CK529AX</b>				
<b>CK536AX</b>	<b>1.4</b>	<b>A35</b>	<b>124</b>	<b>85 XY</b>
<b>CK538DX See CK549DX</b>				
<b>CK539DX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>88 X</b>
<b>CK542DX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>81 X</b>
<b>CK546DX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>93 X</b>
<b>CK547DX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>95 X</b>
<b>CK548DX</b>	<b>1.4</b>	<b>35</b>	<b>124</b>	<b>87 X</b>
<b>CK549DX</b>	<b>.75</b>	<b>A35</b>	<b>124</b>	<b>100 X</b>
	This type OK above 10			
<b>CK551AXA See 1AG5</b>				
<b>CK553AXA See 2E31</b>				
<b>CK556AX See 5676</b>				
<b>CK568AX See 5677</b>				
<b>CK569AX See 5678</b>				
<b>CK570AX See 5697</b>				
<b>CK571AX</b>	<b>1.4</b>	<b>34</b>	<b>127</b>	<b>95 X</b>
	This type OK above 25			
<b>CK573AX See 6029</b>				
<b>CK574AX</b>	<b>.75</b>	<b>35</b>	<b>124</b>	<b>100 X</b>
	This type OK above 20			
<b>CK605CX See 5702</b>				
<b>CK606BX See 5704</b>				
<b>CK608CX See 5703</b>				
<b>CK619CX See 5744</b>				
<b>CK628 See 6247</b>				
<b>C-1112</b>	<b>6.3</b>	<b>178</b>	<b>A26</b>	<b>33 V</b>
<b>C-1125</b>	<b>See 6169</b>			

1203	6.3	125 128	A47 AC36	48 V 48 V
1247	.75	58	9	70 X
2192	2.5	67	124	74 Z
5633	6.3	- G <sub>2</sub> H H G <sub>1</sub> G <sub>3</sub> K ● C145	B369	50 V
5634	6.3	- G <sub>2</sub> H H G <sub>1</sub> G <sub>3</sub> K ● C145	B369	46 V
5635	6.3	124	AC35 AC67	43 Y 43 Y
5636	6.3	1238	A567	15 WX
5637	6.3	-- H H G <sub>1</sub> P ● C245	A13	36 XY
5638	6.3	- G <sub>2</sub> H H G <sub>1</sub> K P ● C245	A136	20 XZ
5639	6.3	123	A567	60 VW
5640	6.3	123	A567	46 VW
5641	6.3	125	3	33 VW
5642	1.4	--- H --- H ● 14	9	73 V
5643	6.3	127	AC56	20 V

Non-conducting

Hold V and push 3 under circuit D

Conducting

May show leakage at G<sub>1</sub>

5645	6.3	-- H G <sub>1</sub> H K P ● C235	A14	40 Y
5646	6.3	-- H G <sub>1</sub> H K P ● C235	A14	63 X
5647	6.3	--- K H H P ● 234	1	18 YZ
5672	1.4	35	124	30 YZ
5676	1.4	A24	A13	22 WY
5677	1.4	24	A13	48 XY
5678	1.4	35	124	53 XY
5697	.75	34	A17	100 X
5702	6.3	3456	127	60 Z
5703	6.3	346	A15	20 YZ
5704	6.3	234	1	20 YZ
5718	6.3	125	A46	25 V
5719	6.8	125	A46	40 XY
5744	6.3	235	A14	20 VX
5784	6.3	A3456	127	53 YZ
5785	1.4	67	1	100 X
5797	25.	C358	AB267	30 XZ
5798	25.	C158 C258	AC36 A47	34 XY 34 XY
5799	1.4	-- F - P - F <sup>+</sup> ● 15	3	90 X

5800	1.4	-- G <sub>1</sub> FG <sub>2</sub> F+ P ● 24	135	100 X
		This type OK above 45		
5801	1.4	--- FGF+ P ● 24	A13	100 X
		This type OK above 40		
5802	1.4	--- FGF+ P ● A24	A13	100 X
		This type OK above 60		
5803	1.4	--- FGF+ P ● A24	A13	100 X
		This type OK above 60		
5828	1.4	--- FGF+ P ● 24	A13	100 X
5829	6.3	357 C2345	6 1	16 XZ 16 XZ
5840	6.3	123	A567	35 V
5851	1.4	ABC567	124	28 YZ
5854	1.4	35	124	78 X
5875	1.4	35	124	31 YZ
5886	1.4	34	127	100 X
		This type OK above 35		
5889	1.4	35	129	95 X
		This type OK above 25		
5896	6.3	123 127	6 5	17 YZ 17 YZ
5897	See 5718			
5898	See 5719			
5899	6.3	123	A567	34 V
5900	See 5899			
5901	See 5840			
5902	6.3	123	A567	15 WZ
5903	25.	123 127	6 5	18 YZ 18 YZ
5904	25.	125	A46	51 VW
5905	25.	123	A567	39 V
5906	25.	123	A567	34 V
5907	25.	123	A567	65 Z
5908	25.	1238	A567	42 V
5916	25.	1238	A567	56 WZ
5967	1.4	35	AC24 A16	40 Y 40 Y
5969	1.4	46	C257 AB138	57 Z 57 Z
5971	1.4	35	A14	18 XZ
5972	1.4	35	124	65 Y
5975	6.3	C245	A13	25 V
5977	6.3	125	A46	35 Z
5987	6.3	125	A46	32 Z
5995	6.3	345	1	33 VW



6021	6.3	125 128	A47 AC36	24 V 24 V
6026	6.3	C158	A47	60 VW
	May show fil. to cathode leakage			
6029	1.4	24	A13	78 Z
6050	1.4	24	A13	30 YZ
6052	See 5896			
6088	1.4	35	124	90 X
6110	6.3	123 127	6 5	39 Y 39 Y
6111	6.3	125 128	A47 AC36	18 YZ 18 YZ
6112	6.3	125 128	A47 AC36	36 XY 36 XY
6148	See 5702			
6149	See 5703			
6150	See 5784			
6151	See 5744			
6152	6.3	C245	A13	38 Z
6169	6.3	125	A34	47 Z
	May show fil. to cathode leakage			
6184	6.3	125 128	7 3	20 V 20 V
6193	6.3	125 128	A47 AC36	23 V 23 V
6195	2.5	67	124	32 WZ
6205	6.3	1238	A567	35 V
6206	6.3	1238	A567	35 V
6247	6.3	125	A46	26 YZ

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