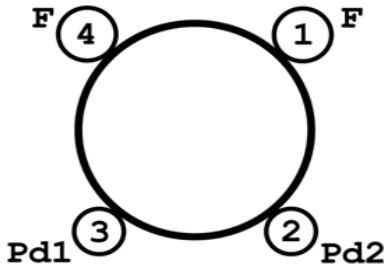


<u>Tube</u>	<u>Page</u>	<u>Tube</u>	<u>Page</u>	<u>Tube</u>	<u>Page</u>	<u>Tube</u>	<u>Page</u>
<u>5AR4</u>	5	<u>6FQ7</u>	30	<u>12DW7</u>	22	<u>7025</u>	22
<u>5AU4</u>	6	<u>6FV8A</u>	28	<u>12FX5</u>	12	<u>7027A</u>	18
<u>5BR8</u>	28	<u>6J7</u>	13	<u>12SL7</u>	16	<u>7189</u>	25
<u>5BS8</u>	23	<u>6K11</u>	35	<u>12SN7</u>	16	<u>7189A</u>	25
<u>5FV8</u>	28	<u>6L6</u>	10			<u>7199</u>	29
<u>5U4</u>	6	<u>6N7</u>	15	<u>18GD6A</u>	11	<u>7591A</u>	19
<u>5V3</u>	6	<u>6Q11</u>	35	<u>35Z5</u>	7	<u>76</u>	3
<u>5Y3</u>	6	<u>6SC7</u>	21	<u>36AM3</u>	4	<u>7868</u>	33
<u>5Z3</u>	2	<u>6SJ7</u>	20	<u>50BM8</u>	27		
		<u>6SL7</u>	16	<u>50L6</u>	10	<u>ECC81</u>	22
<u>6AU6</u>	11	<u>6SN7</u>	16	<u>5751</u>	22	<u>ECC82</u>	22
<u>6BM8</u>	27	<u>6V4</u>	32	<u>5881</u>	10	<u>ECC83</u>	22
<u>6BQ5</u>	25	<u>6V6</u>	10	<u>6072A</u>	22	<u>ECC832</u>	22
<u>6BR8A</u>	28			<u>60FX5</u>	12	<u>ECC88</u>	23
<u>6C4</u>	8	<u>12AT7</u>	22	<u>6201</u>	22	<u>ECL82</u>	27
<u>6C6</u>	9	<u>12AU6</u>	11	<u>6550</u>	14	<u>EL34</u>	17
<u>6C10</u>	34	<u>12AU7</u>	22	<u>6679</u>	22	<u>EL84</u>	25
<u>6CA4</u>	32	<u>12AX7</u>	22	<u>6680</u>	22	<u>EZ80</u>	32
<u>6CA7</u>	17	<u>12AY7</u>	22	<u>6681</u>	22	<u>EZ81</u>	32
<u>6CG7</u>	30	<u>12BH7</u>	22	<u>6922</u>	23	<u>GZ34</u>	5
<u>6CX8</u>	26	<u>12BV7</u>	24			<u>KT66</u>	10
<u>6DJ8</u>	23	<u>12BY7A</u>	24			<u>KT88</u>	17
<u>6EU7</u>	31	<u>12DQ7</u>	24			<u>UCL82</u>	27

5Z3

FULL-WAVE RECTIFIER



PIN DIAGRAM: 4C

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

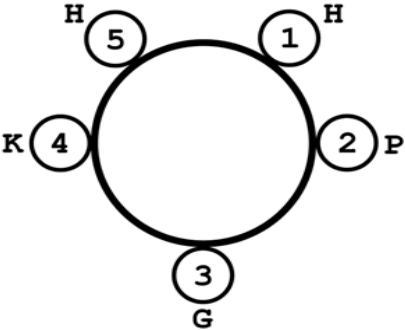
SERIAL NO:

[INDEX](#)

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Filament						
2	d2 - Plate						
3	d1 - Plate						
4	Filament						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc



PIN DIAGRAM: 5A

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

MEDIUM-MU TRIODE

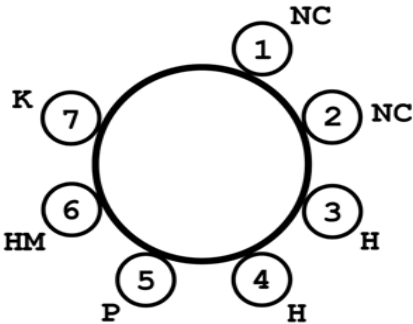
PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Heater						
2	Plate						
3	Grid						
4	Cathode						
5	Heater						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

36AM3

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PIN DIAGRAM: 5BQ

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

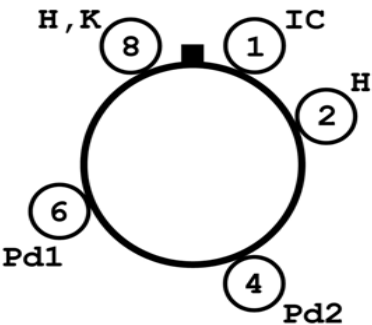
SERIAL NO:

HALF-WAVE RECTIFIER

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	NC						
2	NC						
3	Heater						
4	Heater						
5	Plate						
6	Heater Tap						
7	Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

5AR4 / GZ34



PIN DIAGRAM: 5DA

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

[INDEX](#)

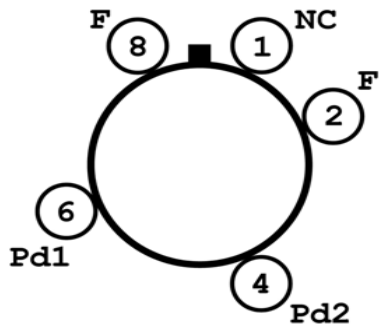
FULL-WAVE RECTIFIER

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	IC						
2	Heater						
4	d2 - Plate						
6	d1 - Plate						
8	Heater, Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

5Y3GT
5U4GB
5V3A/5AU4

FULL-WAVE RECTIFIER



PIN DIAGRAM: 5T

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

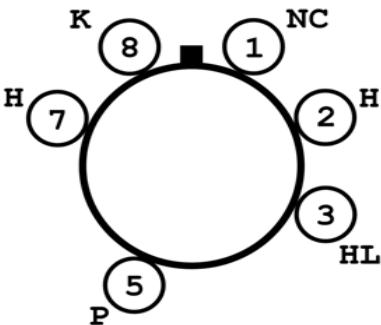
[INDEX](#)

PIN	ELECTRODE	VOLTAGE READINGS					
		<i>a:</i>	<i>b:</i>	<i>c:</i>	<i>d:</i>	<i>e:</i>	<i>f:</i>
1	NC						
2	Filament						
	NC or OMITTED						
4	d2 - Plate						
	NC or OMITTED						
6	d1 - Plate						
	NC or OMITTED						
8	Filament						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

35Z5GT



PIN DIAGRAM: 6AD

WIRING SIDE OF SOCKET IS SHOWN

[INDEX](#)

AMPLIFIER MAKE:

MODEL:

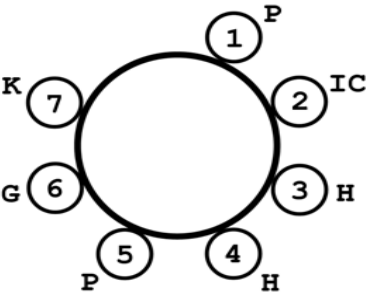
SERIAL NO:

HALF-WAVE RECTIFIER

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	NC or OMITTED						
2	Heater						
3	Heater Tap - Panel Lamp						
5	Plate						
7	Heater						
8	Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6C4



PIN DIAGRAM: 6BG

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

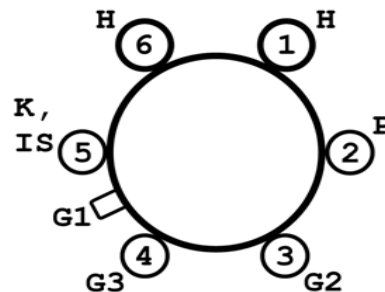
SERIAL NO:

POWER TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Plate						
2	IC						
3	Heater						
4	Heater						
5	Plate						
6	Grid						
7	Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6C6



PIN DIAGRAM: 6F

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

SHARP-CUTOFF PENTODE

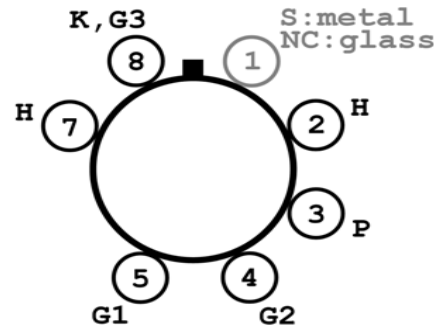
PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Heater						
2	Plate						
3	Screen Grid						
4	Suppressor Grid						
5	Cathode, IS						
6	Heater						
cap	Control Grid						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6L6, 6L6GC
6V6, 6V6GTA
5881, 50L6
KT66

BEAM POWER TUBE



PIN DIAGRAM: 7AC

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	S or NC or OMITTED						
2	Heater						
3	Plate						
4	Screen Grid						
5	Control Grid						
7	Heater						
8	Cathode, Suppressor Grid						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

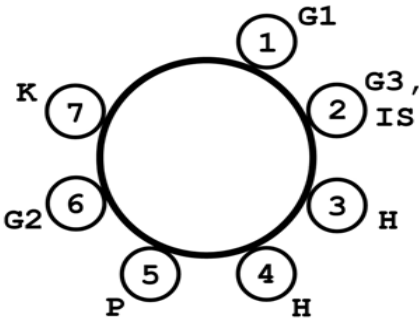
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

18GD6A

12AU6

6AU6

SHARP-CUTOFF PENTODE



PIN DIAGRAM: 7BK

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

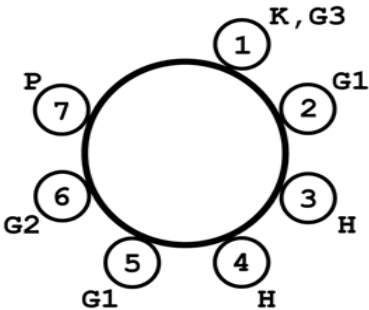
SERIAL NO:

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Control Grid						
2	Suppressor Grid, IS						
3	Heater						
4	Heater						
5	Plate						
6	Screen Grid						
7	Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

60FX5
12FX5



PIN DIAGRAM: 7CV

WIRING SIDE OF SOCKET IS SHOWN

[INDEX](#)

AMPLIFIER MAKE:

MODEL:

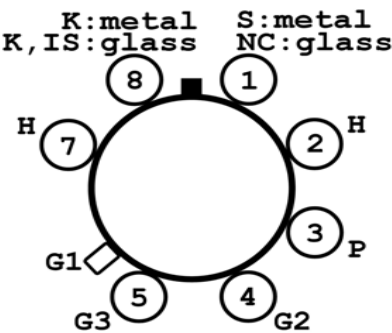
SERIAL NO:

POWER PENTODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Cathode, Suppressor Grid						
2	Control Grid						
3	Heater						
4	Heater						
5	Control Grid						
6	Screen Grid						
7	Plate						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc



PIN DIAGRAM: 7R

WIRING SIDE OF SOCKET IS SHOWN

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AMPLIFIER MAKE:

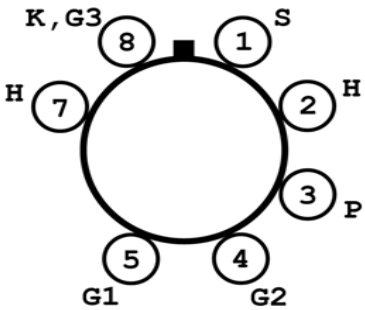
MODEL:

SERIAL NO:

SHARP-CUTOFF PENTODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	S or NC						
2	Heater						
3	Plate						
4	Screen Grid						
5	Suppressor Grid						
7	Heater						
8	Cathode						
cap	Control Grid						

BEAM POWER PENTODE



PIN DIAGRAM: 7S

WIRING SIDE OF SOCKET IS SHOWN

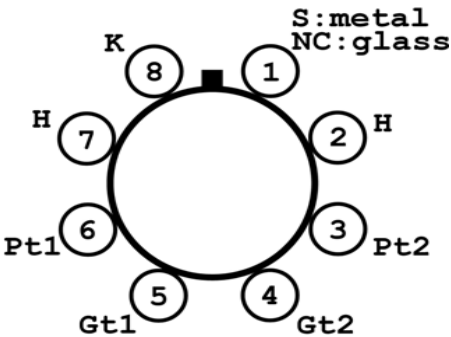
AMPLIFIER MAKE:

MODEL:

SERIAL NO:

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Metal Shell						
2	Heater						
3	Plate						
4	Screen Grid						
5	Control Grid						
7	Heater						
8	Cathode, Suppressor Grid						

6N7



PIN DIAGRAM: 8B

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

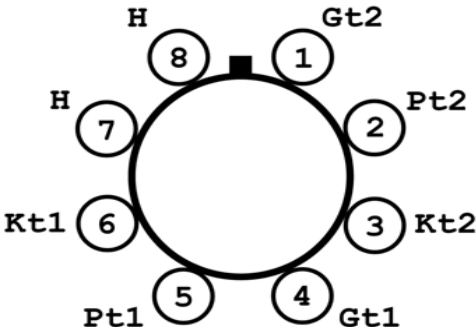
[INDEX](#)

TWIN POWER TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	S or NC						
2	Heater						
3	t2 - Plate						
4	t2 - Grid						
5	t1 - Grid						
6	t1 - Plate						
7	Heater						
8	Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6SL7, 12SL7
6SN7, 12SN7



PIN DIAGRAM: 8BD

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

[INDEX](#)

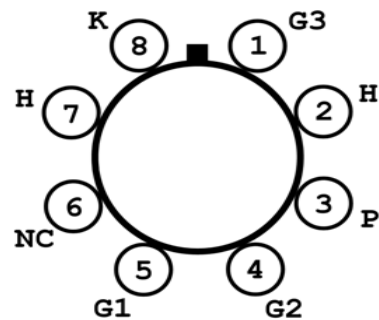
TWIN TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t2 - Grid						
2	t2 - Plate						
3	t2 - Cathode						
4	t1 - Grid						
5	t1 - Plate						
6	t1 - Cathode						
7	Heater						
8	Heater						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6CA7 / EL34
KT88

POWER PENTODE



PIN DIAGRAM: 8ET

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

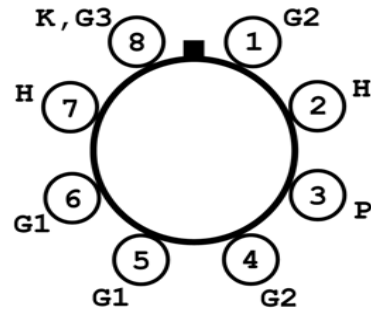
SERIAL NO:

[INDEX](#)

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Suppressor Grid						
2	Heater						
3	Plate						
4	Screen Grid						
5	Control Grid						
6	NC						
7	Heater						
8	Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

7027A



PIN DIAGRAM: 8HY

WIRING SIDE OF SOCKET IS SHOWN

[INDEX](#)

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

BEAM POWER PENTODE

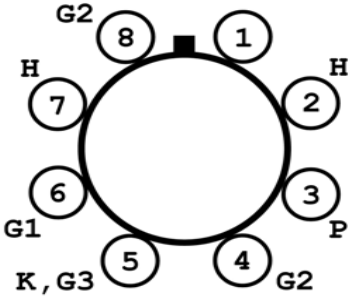
PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Screen Grid						
2	Heater						
3	Plate						
4	Screen Grid						
5	Control Grid						
6	Control Grid						
7	Heater						
8	Cathode, Suppressor Grid						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

7591A

POWER PENTODE



PIN DIAGRAM: 8KQ

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

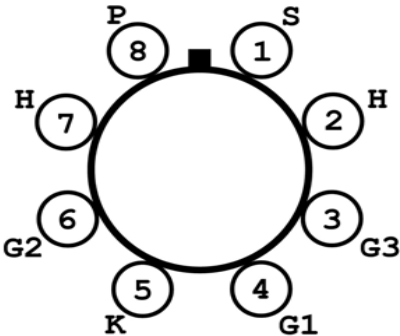
SERIAL NO:

[INDEX](#)

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1							
2	Heater						
3	Plate						
4	Screen Grid						
5	Cathode, Suppressor Grid						
6	Control Grid						
7	Heater						
8	Screen Grid						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6SJ7



PIN DIAGRAM: 8N

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

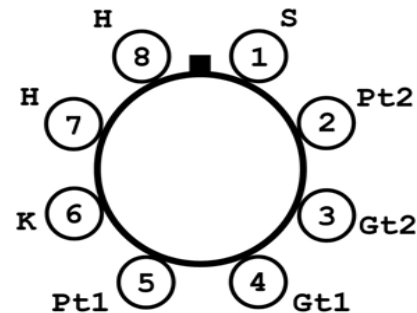
[INDEX](#)

SHARP-CUTOFF PENTODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Metal Shell						
2	Heater						
3	Suppressor Grid						
4	Control Grid						
5	Cathode						
6	Screen Grid						
7	Heater						
8	Plate						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6SC7



PIN DIAGRAM: 8S

WIRING SIDE OF SOCKET IS SHOWN

[INDEX](#)

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

HIGH-MU TWIN TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Metal Shell						
2	t2 - Plate						
3	t2 - Grid						
4	t1 - Grid						
5	t1 - Plate						
6	Common Cathode						
7	Heater						
8	Heater						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

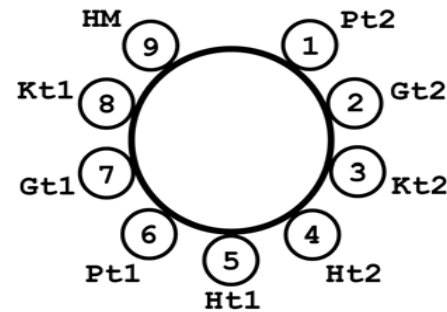
12AT7/ECC81/6679/6201, 5751

12AU7/ECC82/6680, 12BH7

12AX7/ECC83/6681/7025

12AY7/6072A, 12DW7/ECC832

TWIN TRIODE



PIN DIAGRAM: 9A

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

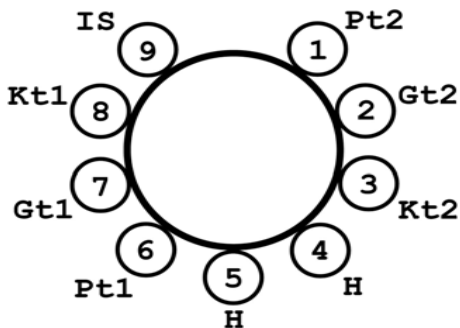
PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t2 - Plate						
2	t2 - Grid						
3	t2 - Cathode						
4	t2 - Heater						
5	t1 - Heater						
6	t1 - Plate						
7	t1 - Grid						
8	t1 - Cathode						
9	Heater common						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6DJ8/ECC88/6922

5BS8



PIN DIAGRAM: 9AJ

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

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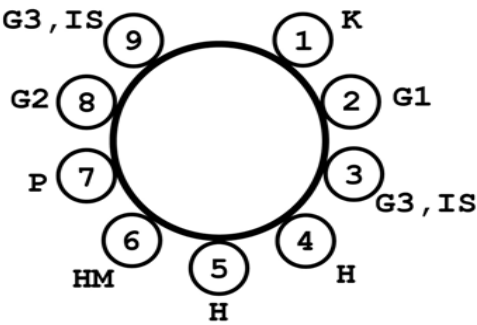
MEDIUM-MU TWIN TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t2 - Plate						
2	t2 - Grid						
3	t2 - Cathode						
4	t2 - Heater						
5	t1 - Heater						
6	t1 - Plate						
7	t1 - Grid						
8	t1 - Cathode						
9	IS						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

12BY7A/12BV7/12DQ7



PIN DIAGRAM: 9BF

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

SHARP-CUTOFF PENTODE

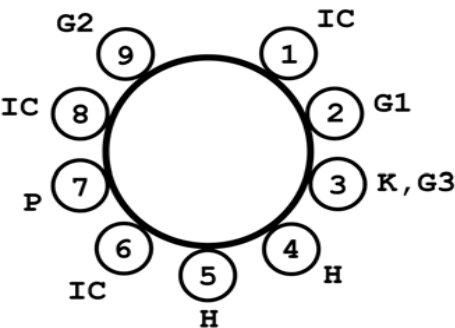
PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Cathode						
2	Control Grid						
3	Suppressor Grid, IS						
4	Heater						
5	Heater						
6	Heater common						
7	Plate						
8	Screen Grid						
9	Suppressor Grid, IS						

6BQ5 / EL84

7189

7189A - pins 1 & 2 connect; pins 6 & 9 connect

POWER PENTODE



PIN DIAGRAM: 9CV

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

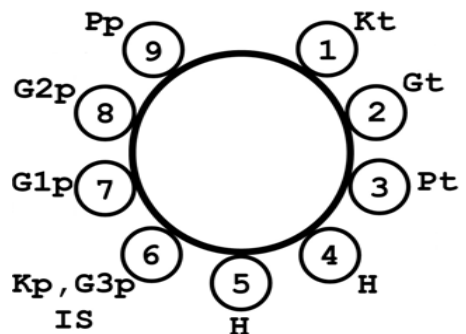
[INDEX](#)

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	IC						
2	Control Grid						
3	Cathode, Suppressor Grid						
4	Heater						
5	Heater						
6	IC						
7	Plate						
8	IC						
9	Screen Grid						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6CX8

MEDIUM-MU TRIODE, SHARP-CUTOFF PENTODE



PIN DIAGRAM: 9DX

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

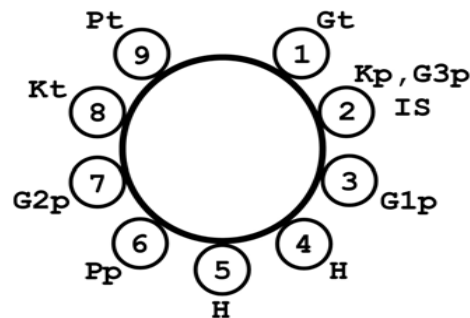
[INDEX](#)

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t - Cathode						
2	t - Control Grid						
3	t - Plate						
4	Heater						
5	Heater						
6	p - Cathode, Supp Grid, IS						
7	p - Control Grid						
8	p - Screen Grid						
9	p - Plate						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6BM8/ECL82 **50BM8/UCL82**

**HIGH-MU TRIODE,
POWER PENTODE**



PIN DIAGRAM: 9EX

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

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PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t - Grid						
2	p - Cathode, Supp Grid, IS						
3	p - Control Grid						
4	Heater						
5	Heater						
6	p - Plate						
7	p - Screen Grid						
8	t - Cathode						
9	t - Plate						

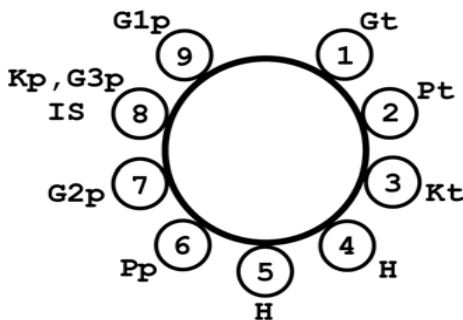
TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
 SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6BR8A

6FV8A

5BR8/5FV8

**MEDIUM-MU TRIODE,
SHARP-CUTOFF PENTODE**



PIN DIAGRAM: 9FA

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

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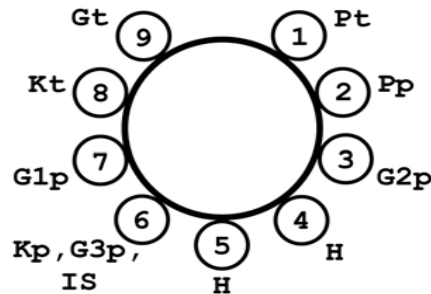
[INDEX](#)

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t - Grid						
2	t - Plate						
3	t - Cathode						
4	Heater						
5	Heater						
6	p - Plate						
7	p - Screen Grid						
8	p - Cathode, Supp Grid, IS						
9	p - Control Grid						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

MEDIUM-MU TRIODE,
SHARP-CUTOFF PENTODE



PIN DIAGRAM: 9JT

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

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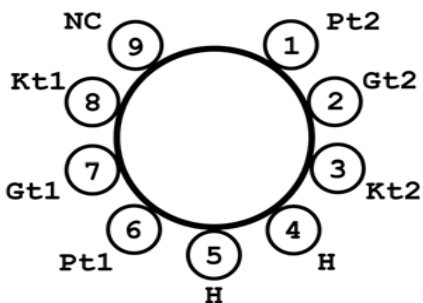
PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t - Plate						
2	p - Plate						
3	p - Screen Grid						
4	Heater						
5	Heater						
6	p - Cathode, Supp Grid, IS						
7	p - Control Grid						
8	t - Cathode						
9	t - Grid						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6FQ7

6CG7



PIN DIAGRAM: 9LP

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

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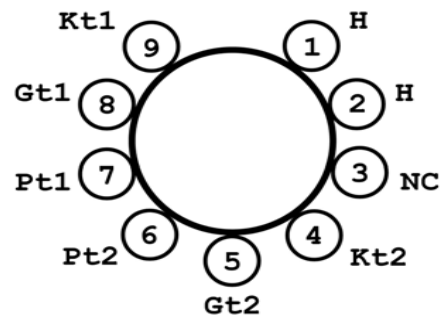
MEDIUM-MU TWIN TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	t2 - Plate						
2	t2 - Grid						
3	t2 - Cathode						
4	Heater						
5	Heater						
6	t1 - Plate						
7	t1 - Grid						
8	t1 - Cathode						
9	NC						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6EU7



PIN DIAGRAM: 9LS

WIRING SIDE OF SOCKET IS SHOWN

AMPLIFIER MAKE:

MODEL:

SERIAL NO:

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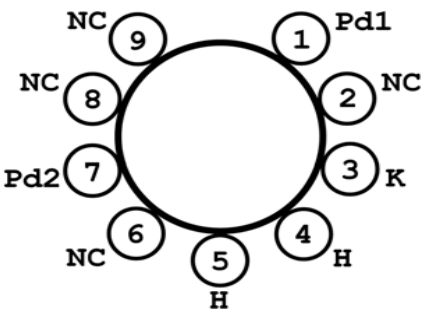
TWIN TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Heater						
2	Heater						
3	NC						
4	t2 - Cathode						
5	t2 - Grid						
6	t2 - Plate						
7	t1 - Plate						
8	t1 - Grid						
9	t1 - Cathode						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.

SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6CA4 / EZ81
6V4 / EZ80



PIN DIAGRAM: 9M

WIRING SIDE OF SOCKET IS SHOWN

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AMPLIFIER MAKE:

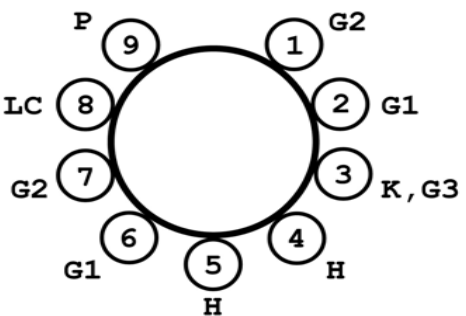
MODEL:

SERIAL NO:

FULL-WAVE RECTIFIER

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	d1 - Plate						
2	NC						
3	Cathode						
4	Heater						
5	Heater						
6	NC						
7	d2 - Plate						
8	NC						
9	NC						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc



PIN DIAGRAM: 9RW

WIRING SIDE OF SOCKET IS SHOWN

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AMPLIFIER MAKE:

MODEL:

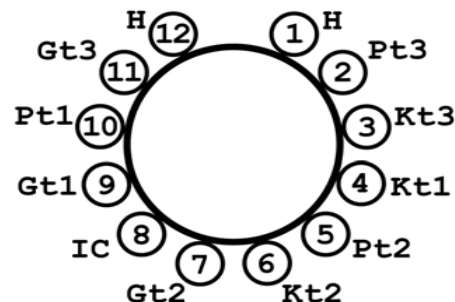
SERIAL NO:

POWER PENTODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Screen Grid						
2	Control Grid						
3	Cathode, Suppressor Grid						
4	Heater						
5	Heater						
6	Control Grid						
7	Screen Grid						
8	Limited Connection						
9	Plate						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6C10



PIN DIAGRAM: 12BQ

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WIRING SIDE OF SOCKET IS SHOWN

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AMPLIFIER MAKE:

MODEL:

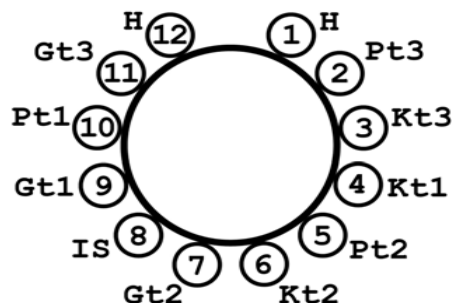
SERIAL NO:

HIGH-MU TRIPLE TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Heater						
2	t3 - Plate						
3	t3 - Cathode						
4	t1 - Cathode						
5	t2 - Plate						
6	t2 - Cathode						
7	t2 - Grid						
8	IC						
9	t1 - Grid						
10	t1 - Plate						
11	t3 - Grid						
12	Heater						

TERMINAL ABBREVIATIONS: H = Heater End (Unpolarized). HM = Heater Tap. IC = Do Not Use (Internal Connection). IS = Internal Shield (Electrostatic). K = Cathode. NC = No Internal Connection. S = Metal Shell.
SUBSCRIPTS FOR MULTI-UNIT TUBES: b = Beam Power Unit. d = Diode Unit. hp = Heptode Unit. hx = Hexode Unit. p = Pentode Unit. t = Triode Unit. tr = Tetrode Unit. 1, 2, 3, etc. = No. 1, No. 2, No. 3, etc

6K11/6Q11



PIN DIAGRAM: 12BY

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WIRING SIDE OF SOCKET IS SHOWN

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AMPLIFIER MAKE:

MODEL:

SERIAL NO:

THREE-UNIT TRIODE

PIN	ELECTRODE	VOLTAGE READINGS					
		a:	b:	c:	d:	e:	f:
1	Heater						
2	t3 - Plate						
3	t3 - Cathode						
4	t1 - Cathode						
5	t2 - Plate						
6	t2 - Cathode						
7	t2 - Grid						
8	IS						
9	t1 - Grid						
10	t1 - Plate						
11	t3 - Grid						
12	Heater						