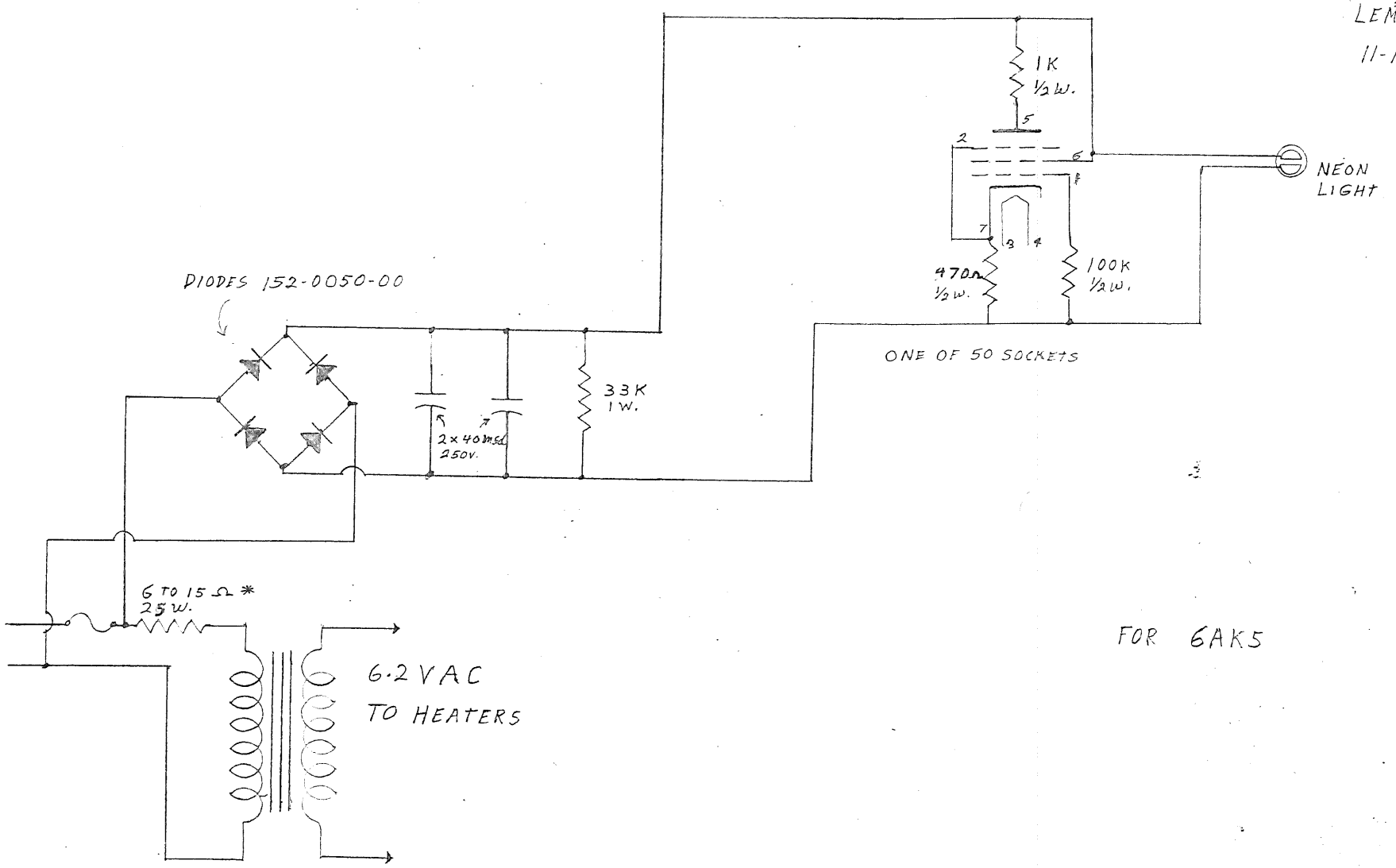
6AK5 6 VOLT UNIVERSAL AGING RACK 154-0014-00

LEMOYNE W.
11-15-65



FOR 6AK5

* SELECTED FOR 6.2 VOLTS ON HEATERS WITH RACK LOADED.

1. ITEM NAME AND DESCRIPTION. 6AK5 Electron tube, 7 pin miniature, sharp cutoff pentode. Manufactures heater rating; 6.3 volts, 175 mA.

2. TEKTRONIX SELECTION PART NUMBERS. This tube is used for 157-0002-00, 157-0054-00, 157-0063-00, 157-0117-00.

3. AGING

3.1 AGING CONDITIONS

50 socket aging rack with never less than 40 tubes inserted.

Heater voltage with 50 sockets loaded shall be 6.3 VAC 0 to -5%. (Use a 25 Watt wire wound resistor in transformer Primary circuit to drop transformer output voltage to heaters.)

Plate voltage. 130 to 155 volts.

B+ supply. 117 VAC line bridge rectified and filtered with a 10 to 15Ω resistor and a capacitor of not less than 80 mfd.

Both supplies floating from chassis.

Cathode-circuit resistor, $470^{\Omega} \pm 10\%$, each tube.

Grid circuit resistor. $100K\Omega \pm 10\%$ each tube.

Plate circuit resistor $1K\Omega \pm 10\%$ each tube.

3.2 AGING CYCLING PROCEDURE.

The 50 socket aging racks are placed in portable AGER-CYCLE units which are pre-set to automatically control the cycle time.

Power applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

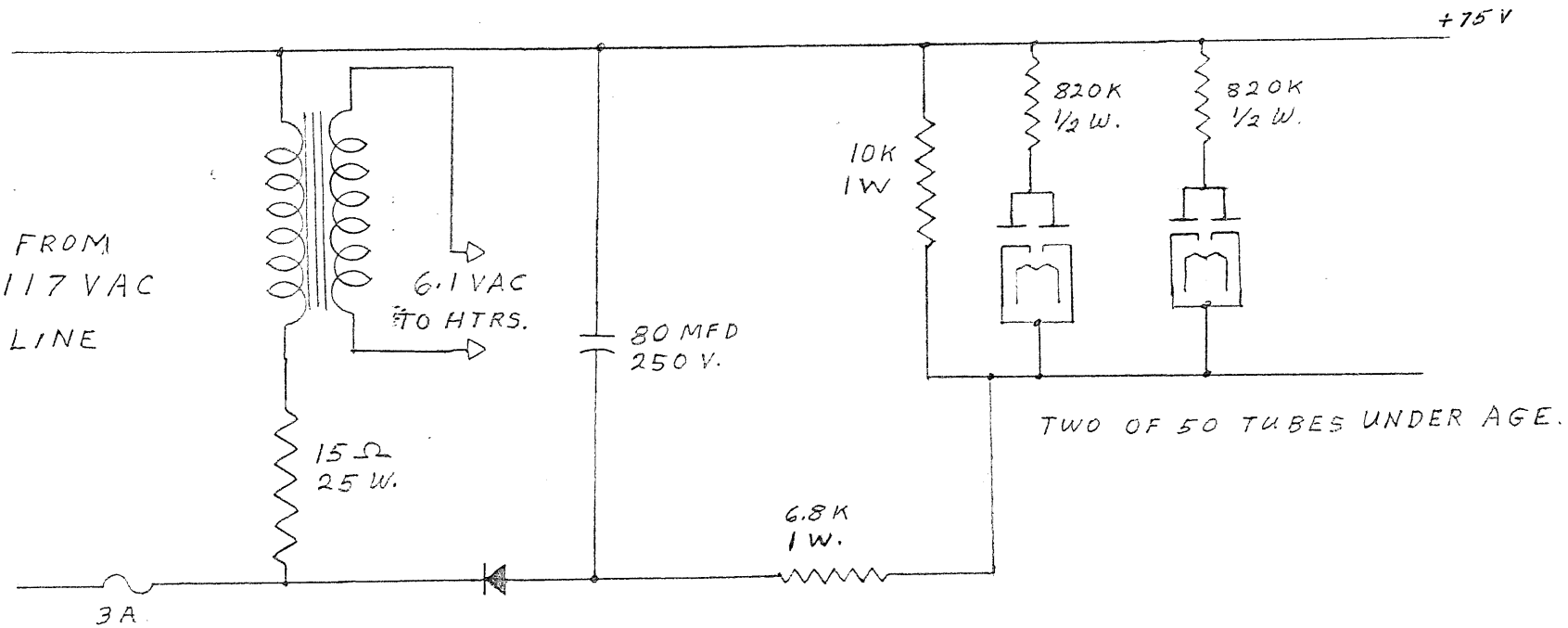
Power-on aging time not less than 100 hours and not over 130 hours.

4. SELECTION. For selection procedures on above selected part numbers see specification for each part number.

LW/bb

6AL5 AGING RACK

154-0016-00



LWW 10-1-76

1. ITEM NAME AND DESCRIPTION

6AL5 ELECTRON TUBE, 7 pin miniature, twin diode, manufactures heater rating, 6.3 volts, 300 milliamps.

2. TEKTRONIX SELECTED PART NUMBERS

157-0104-01 and 157-0104-02 are selected from this part.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 50 socket aging racks with never less than 40 sockets loaded.

Heater voltage with 50 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer Primary Circuit to drop heater voltage to specified value.

The cathode-to-plate supply consits of a single diode rectifier, 80 mfd filter capacitor and a 1 watt resistor divider with a 820 K $\pm$ 10% resistor to the plates of each tube. This sets the cathodes at -75 volts in respect to the plates.

The 6 VOLT - 12 VOLT heater switch on aging rack must be in 6 - VOLT position.

3.2 AGING-CYCLING PROCEDURE

The 50 socket aging racks are placed in a portable AGER-CYCLE unit which is pre-set to automatically control cycle time.

Power is applied to tubes for 55 minutes of each hour.

Power-on aging time, not less than 22 hours and not over 66 hours.

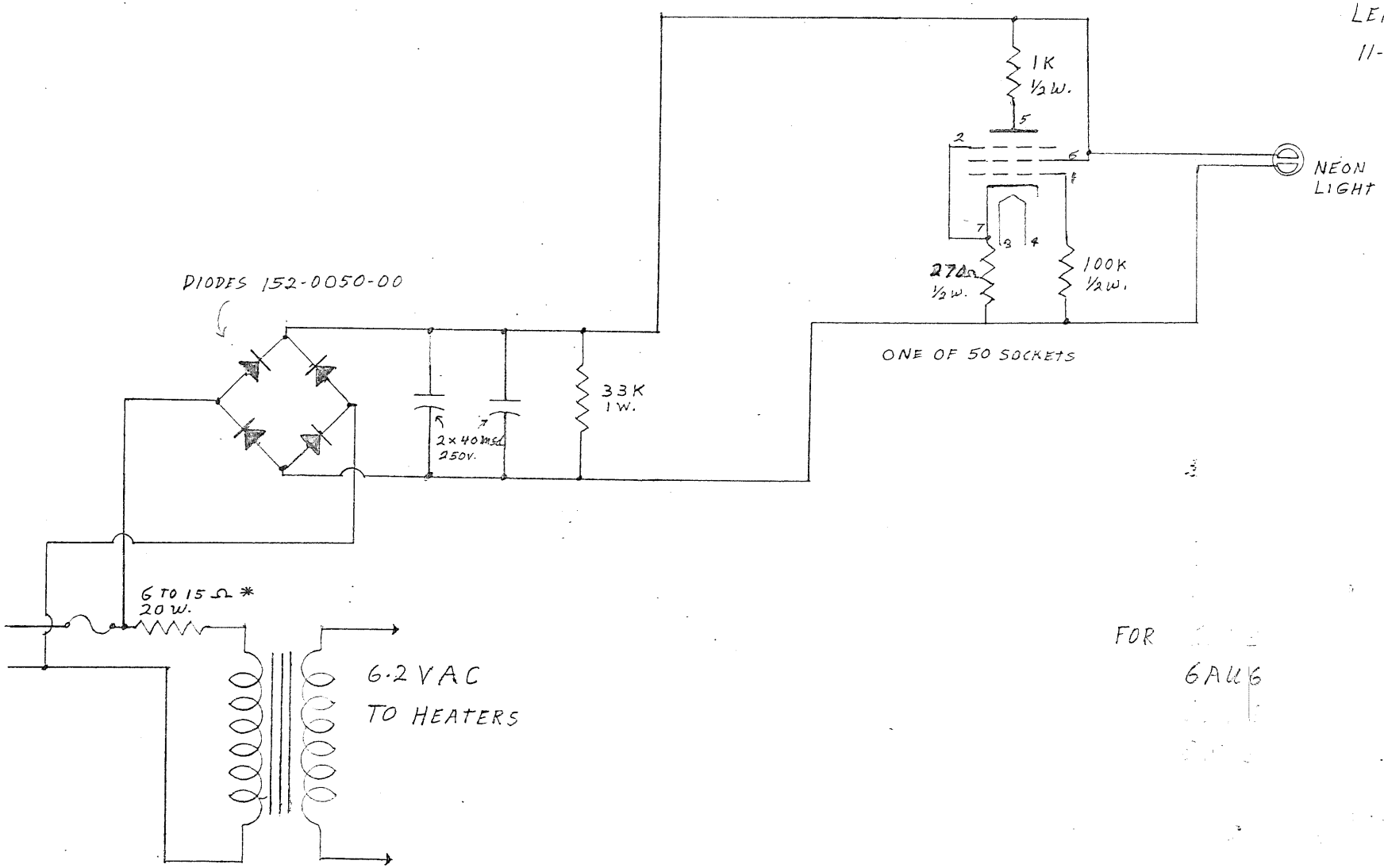
4. SELECTION

For selection procedure on above selected part numbers, see specification for those part numbers.

LW/ec

6 VOLT UNIVERSAL AGING RACK 154-0022-07

LEMOYNE W.
11-15-65



FOR
6AU6

* SELECTED FOR 6.2 VOLTS ON HEATERS WITH RACK LOADED.

SPECIFICATION No. 154-0022-07
Oct. 7, 1976

1. ITEM NAME AND DESCRIPTION. 6AU6/8425A Electron tube, 7 pin miniature, sharp-cut cutoff pentode. Manufactures heater rating; 6.3 volts, 300 mA.

2. TEKTRONIX SELECTION PART NUMBERS. This tube is used for 157-0059-00 and 157-0073-00.

3. AGING.

3.1 AGING CONDITIONS.

50 socket aging racks with never less than 40 tubes inserted while aging.

Heater voltage with 50 sockets loaded shall be 6.3 VAC maximum, 6.0 VAC minimum. (A 25 watt wire wound resistor is used in the transformer Primary Circuit to drop heater voltage.)

B+ supply, 117 VAC line, bridge rectified and filtered with 10Ω to 15Ω wire wound resistor and a capacitor of not less than 80 mfd.

Plate voltage, 145 volts ± 7%.

Both heater and B+ supplies floating.

Cathode-circuit resistor, 270Ω ± 10% each tube.

Grid circuit resistor, 100KΩ ± 10% each tube.

Plate circuit resistor, 1 KΩ ± 10% each tube.

3.2 AGING CYCLING PROCEDURE.

The 50 socket aging racks are placed in portable AGER-CYCLE units which are pre-set to automatically control the cycle time.

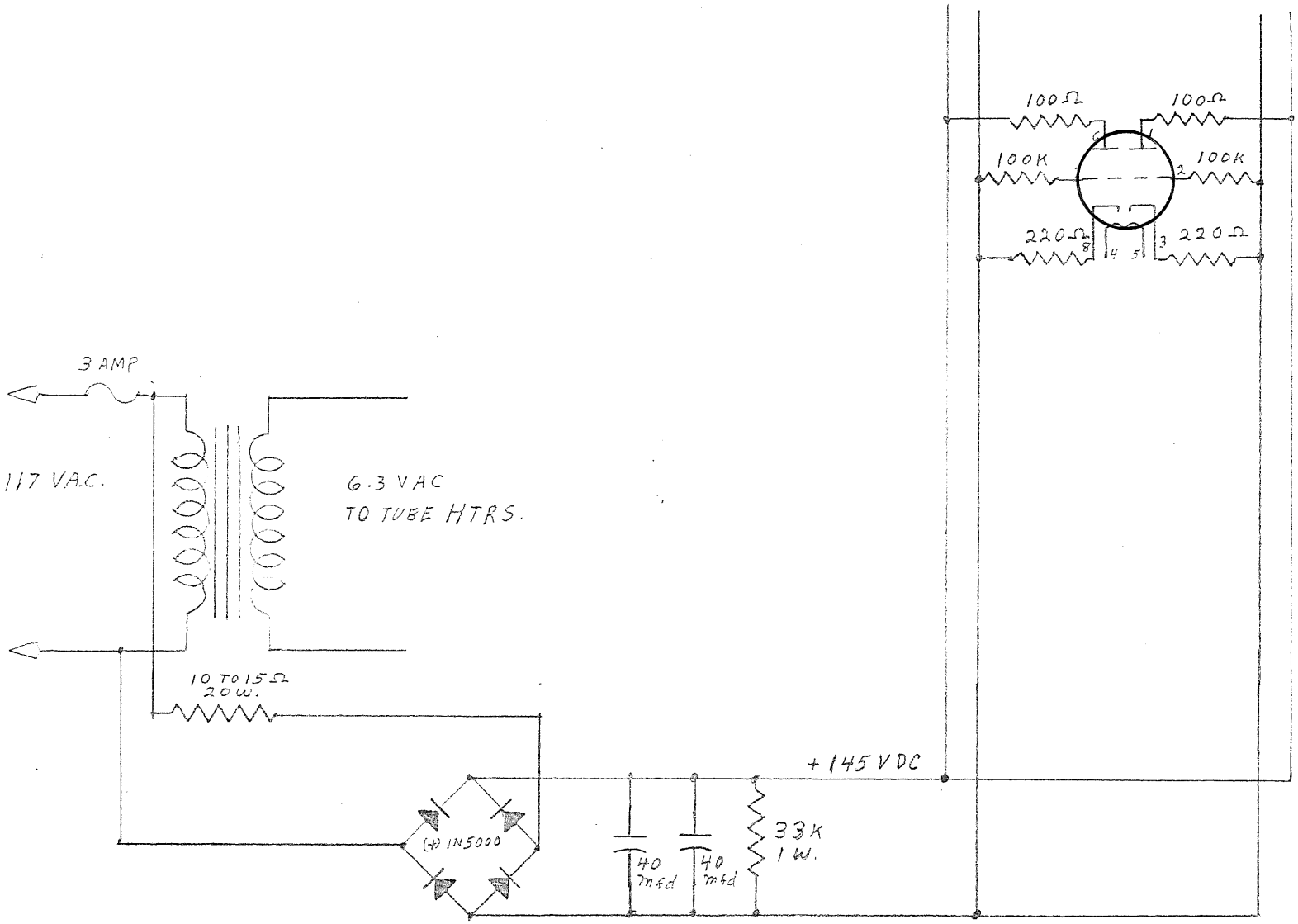
Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power-on aging time not less than 100 hours and not over 130 hours.

4. SELECTION. For selection instructions on above selected part numbers, see specification for each part number.

LW/bb

6BQ7A AGING RACK 154-0028-00



3-17-77
L.W.W.

1. ITEM NAME AND DESCRIPTION

6BQ7A ELECTRON TUBE, 9 pin miniature, medium-mu twin triode. Manufactures heater rating, 6.3 volts, 400 milliamps.

2. TEKTRONIX SELECTED PART NUMBERS

157-0003-00 and 157-0022-00 are selected from this part.

3. AGING.

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded.

Heater voltage with 40 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater voltage.

B+ supply consists of a bridge rectifier, 10 to 15 ohm wire wound resistor and capacitor of not less than 80 mfds are used to rectify and filter the 117 volt 60 Hz from power line.

Plate voltage, 142 volts $\pm$ 10%.

Both supplies floating from chassis.

Cathode-circuit resistor, 220 ohm $\pm$ 10% 1/2 watt.

Grid-circuit resistor, 100K ohm $\pm$ 10% 1/2 watt.

Plate-circuit resistor, 100 ohm $\pm$ 10% 1/2 watt.

3.2 AGING-CYCLING PROCEDURE

The 40 socket aging racks are placed in portable AGER-CYCLE unit which is pre-set to automatically control the cycle time.

Power is applied to tubes for 55 minutes of each hour.

Power-on time, not less than 44 hours and not over 88 hours.

4. SELECTION

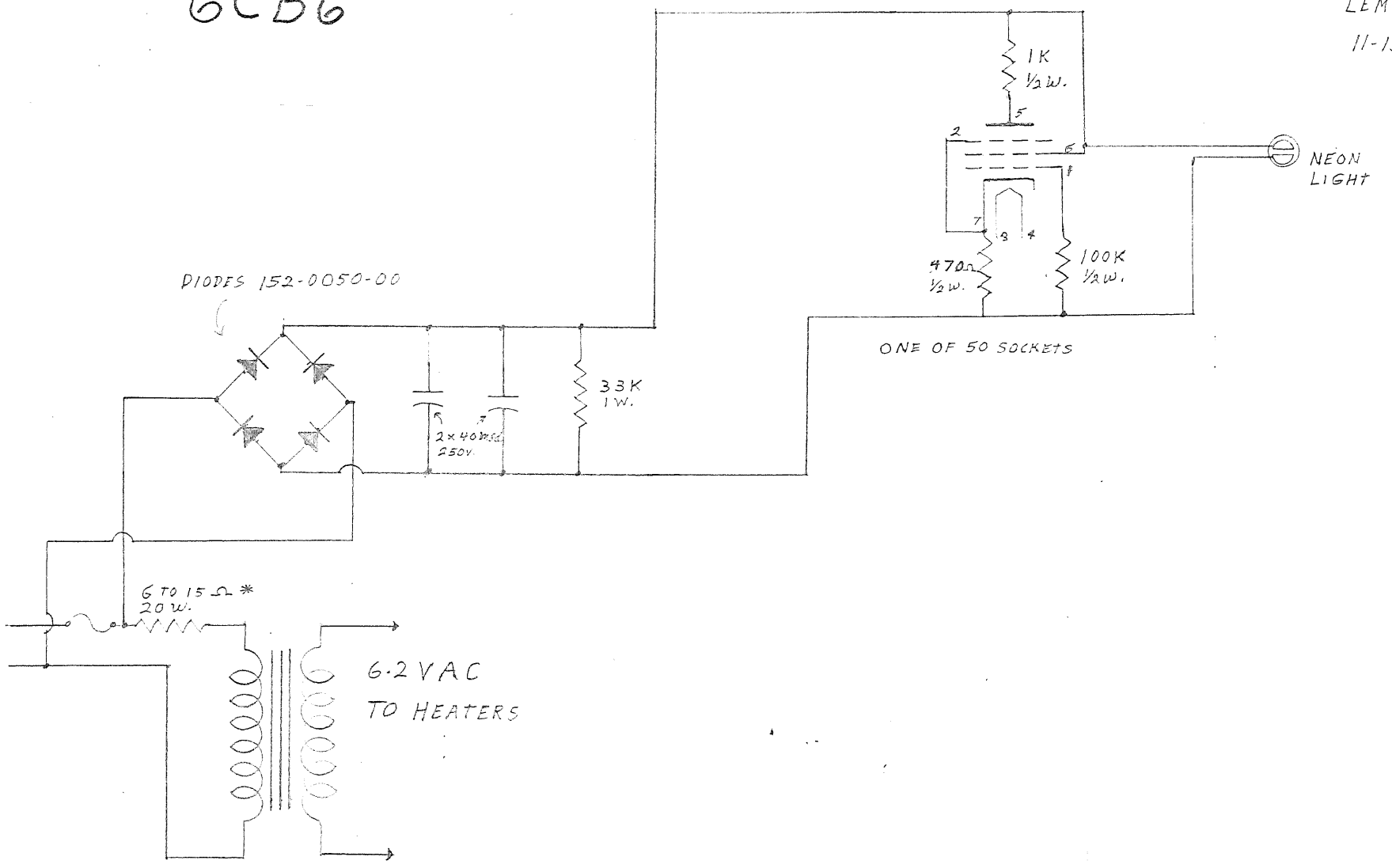
For selection procedure on above selected part numbers, see specifications for those part numbers.

LW/ec

6 VOLT UNIVERSAL AGING RACK 154-0030-00

6CB6

LEMOYNE W.
11-15-65



* SELECTED FOR 6.2 VOLTS ON HEATERS WITH RACK LOADED.

1. ITEM NAME AND DESCRIPTION

6CB6A ELECTRON TUBE, 7 pin miniature, sharp-cutoff pentode. Manufactures heater rating; 6.3 volts, 300 milliamps.

2. TEKTRONIX SELECTED PART NUMBERS

157-0005-00 and 157-0020-00 are selected from this tube.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 50 socket aging racks with never less than 40 tubes inserted to avoid excessive voltage to tubes.

Heater voltage with 50 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the 117 volt, 60 Hz line power.

Plate voltage, +130 to +150 volts.

Both heater and B+ supplies floating from chassis.

Plate-circuit resistor, 1 K ohm $\pm$ 10%.

Cathode-circuit resistor, 470 ohm $\pm$ 10%.

Grid-circuit resistor, 100 K ohms $\pm$ 10%.

3.2 AGING-CYCLE PROCEDURE

The 50 socket aging racks are placed in a portable AGER-CYCLE unit which is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

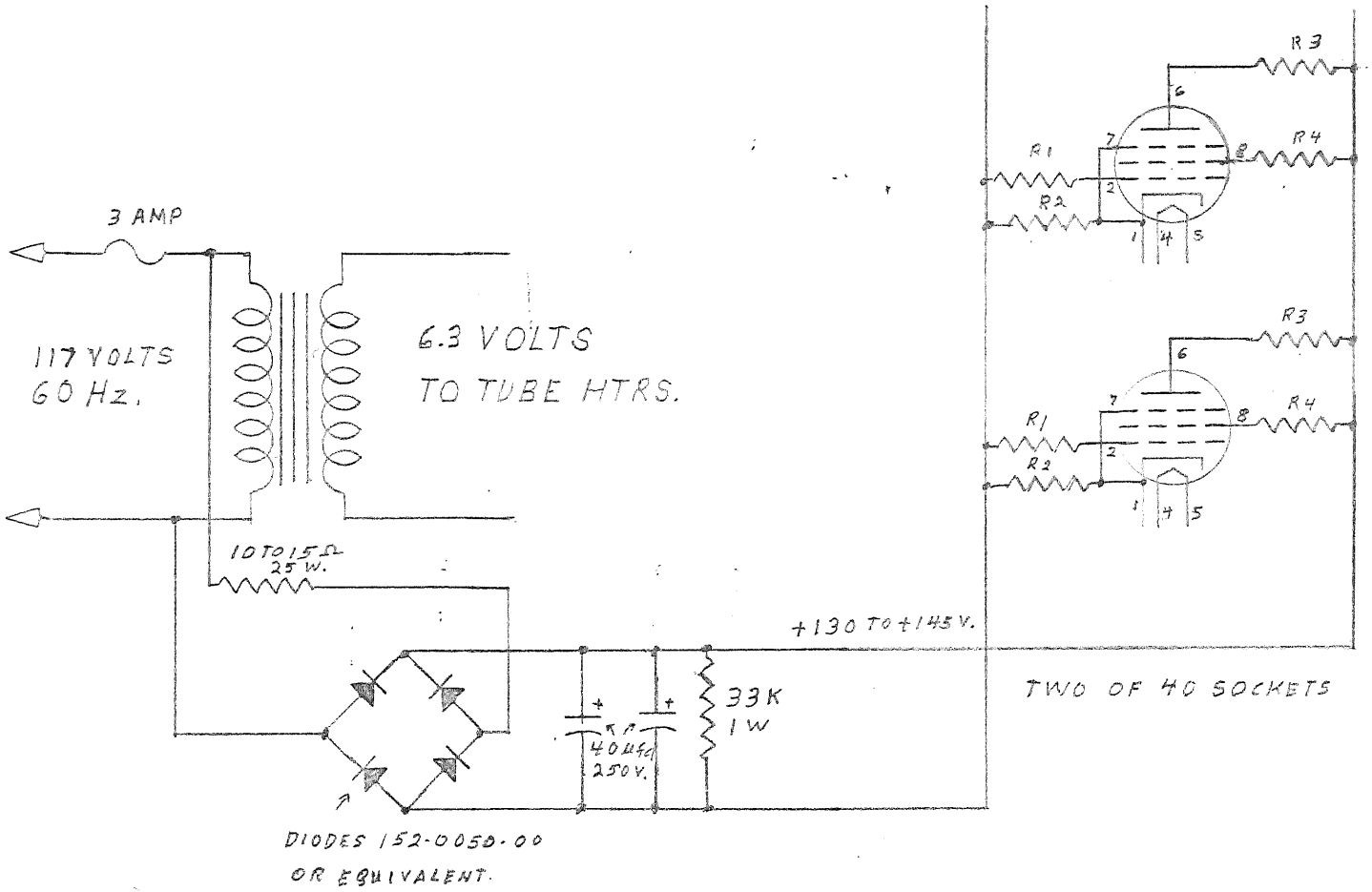
Power on time, not less than 60 hours and not over 130 hours.

4. SELECTION

For selection specification on above part numbers, see specification for each part number.

L.W.

6CL6 AGING RACK 154-0031-00



R1 220 Ω ½ W. ±10% (MAY ALSO BE 100 Ω OR 1K)
R2 330 Ω ½ W. ±10%
R3 100 Ω ½ W. ±10% (MAY ALSO BE 220 Ω OR 270 Ω)
R4 120 Ω ½ W. ±10%

4-14-77
L.W.W.

1. ITEM NAME AND DESCRIPTION

6CL6 ELECTRON TUBE, 9 pin miniature, power pentode. Manufactures heater rating, 6.3 volts, 650 milliamps.

2. TEKTRONIX SELECTED PART NUMBERS

157-0006-00, 157-0007-00 and 157-0021-00 are selected from this part.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded to avoid excessive voltage on tubes.

Heater volts with 40 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the 117 volt, 60 Hz line power.

Plate voltage, +130 to +145 volts.

Both heater and B+ supplies are isolated from chassis.

Plate-circuit resistor, 270 ohm $\pm$ 10%.

Screen-circuit resistor, 270 ohm $\pm$ 10%.

Cathode-circuit resistor, 330 ohm $\pm$ 10%.

Grid-circuit resistor, 100 ohm $\pm$ 10%.

Cathode current, 11 milliamps $\pm$ 10%.

3.2 AGING-CYCLE PROCEDURE

The 40 socket aging rack is placed in a portable AGER-CYCLE unit which is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power on time, not less than 40 hours and not over 106 hours.

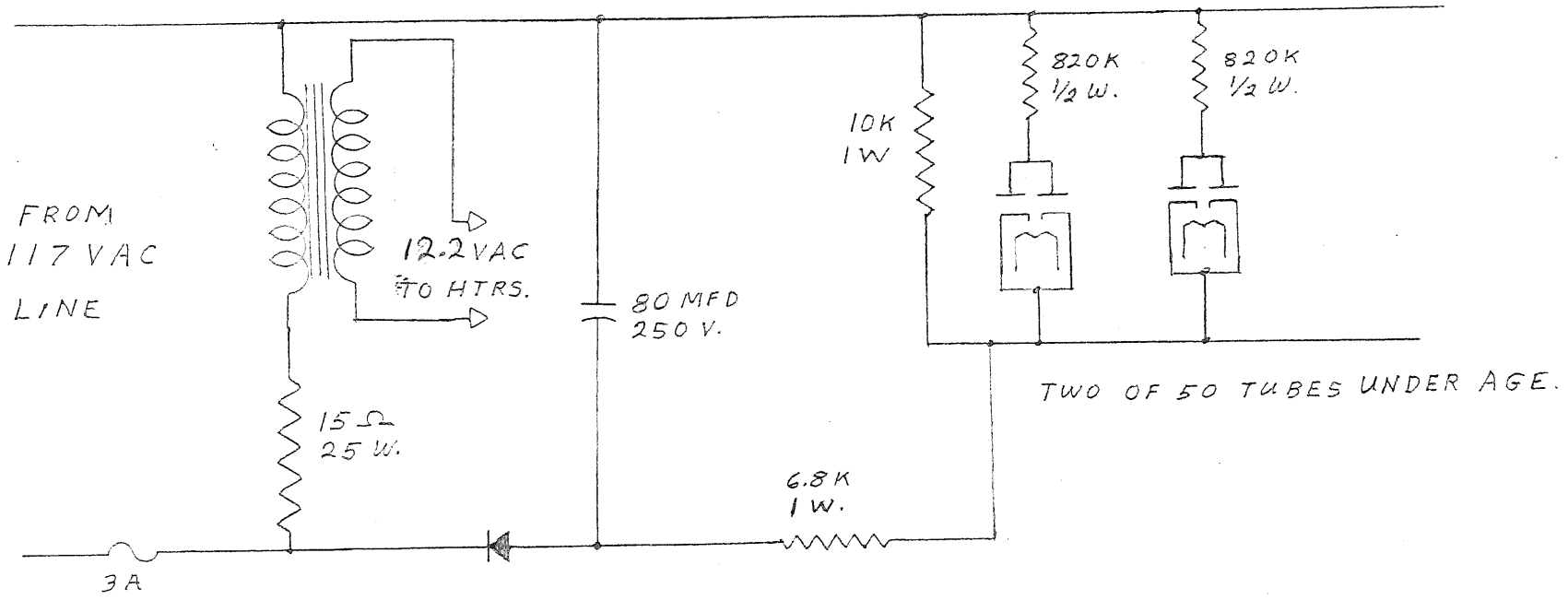
4. SELECTION

For selection specifications on above selected part numbers, see specification for each part number.

LW/ec

12AL5 AGING RACK

154-0038-00



LWW

1. ITEM NAME AND DESCRIPTION

12AL5 ELECTRON TUBE, 7 pin miniature, twin diode. Manufactures heater rating, 12.6 volts, 150 milliamps.

2. TEKTRONIX SELECTED PART NUMBER

157-0075-00 is selected from this part.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 50 socket aging racks with never less than 40 sockets loaded.

Heater voltage with 50 sockets loaded shall not exceed 12.6 volts nor be less than 12.0 volts. A wire wound resistor may be used in the transformer primary circuit to drop the heater voltage to specified value.

The cathode-to-plate supply consists of a single diode rectifier, 80 mfd filter capacitor and a 1 watt resistor divider with a 820 K $\pm$ 10% resistor to the plates of each tube. This sets the cathodes at -75 volts in respect to the plates.

The 6 VOLT - 12 VOLT heater switch on aging rack must be in 12 VOLT position.

3.2 AGING-CYCLING PROCEDURE

The 50 socket aging racks are placed in a portable AGER-CYCLE unit which is pre-set to automatically control cycle time.

Power is applied to tubes for 55 minutes of each hour.

Power-on aging time, not less than 22 hours and not over 66 hours.

4. SELECTION

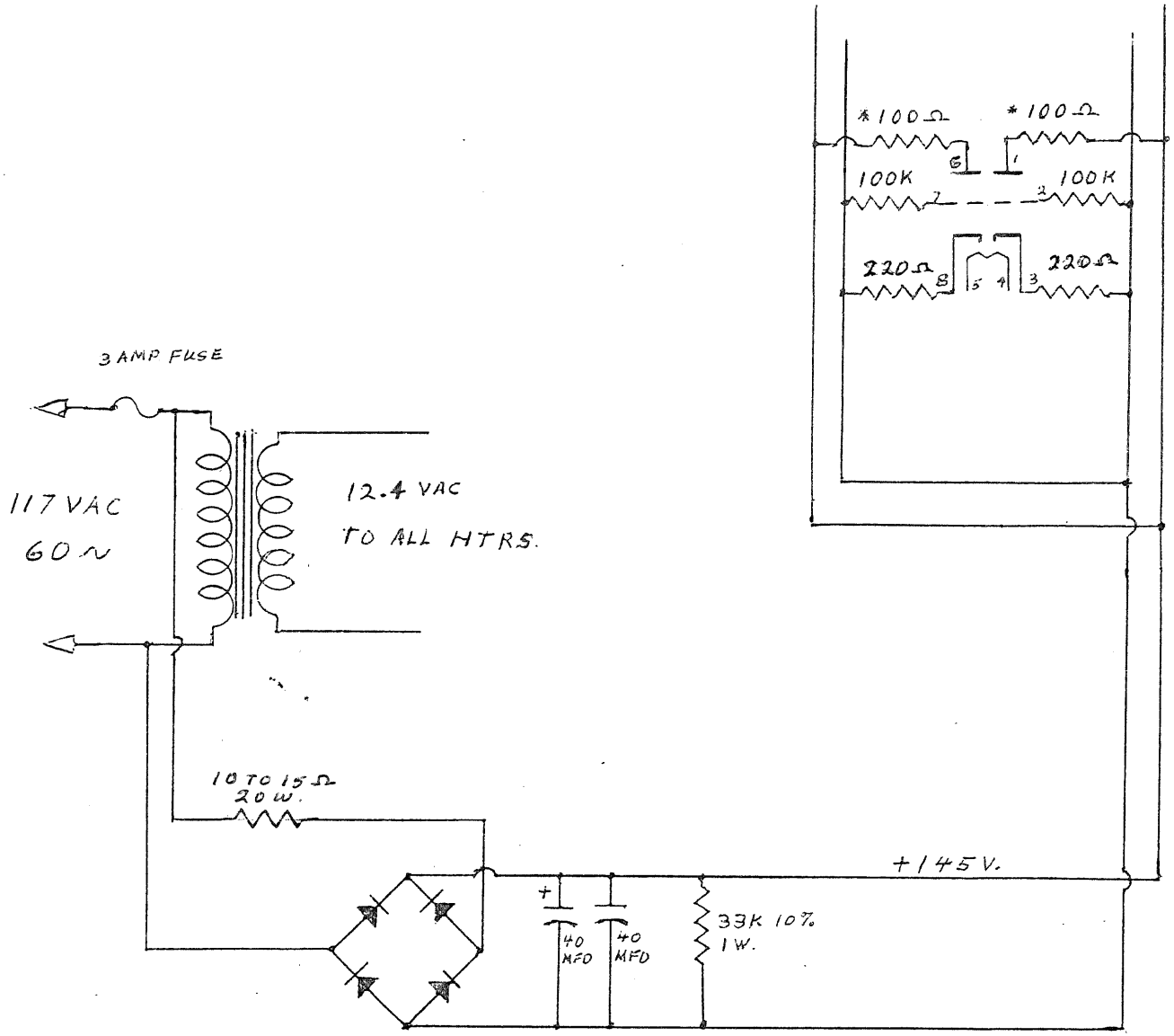
For selection procedure on above selected part number, see specification for that part number.

LW/ec

12AT7

154-0039-00

AGING RACK FOR 157-0118-00



ONE OF 40 SOCKETS

11-6-70
L.W.

ALL RESISTORS 10% ½ W
IF NOT STATED OTHERWISE.

100 Ω PLATE-CIRCUIT RESISTOR
MAY BE OMITTED.

SPECIFICATION NO. 154-0039-00
10-27-76

1. ITEM NAME AND DESCRIPTION. 12AT7/ECC81 ELECTRON TUBE, 9pin miniature, high-mu twin triode, manufactures heater rating; series 12.6 volts, 150mA.

2. TEKTRONIX SELECTED PART NUMBER. 157-0118-00

3. AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded.

Heater voltage with 40 sockets loaded shall not exceed 12.6 volts nor be less than 12.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire ~~would~~ wound resistor and a capacitor of not less than 80 mfd are used to rectify and filter the 117 volt, 60 cycle line.

Plate voltage, 130 to 155 volts.

Both supplies floating from chassis.

Cathode-circuit resistor, 220 ohm± 10%.

Grid-circuit resistor, 100k ohm± 10%.

3.2 AGING CYCLING PROCEDURE.

The 40 socket aging racks are placed in portable AGER-CYCLE units which are pre-set to automatically control cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power-on time, not less than 88 hours and not over 120 hours.

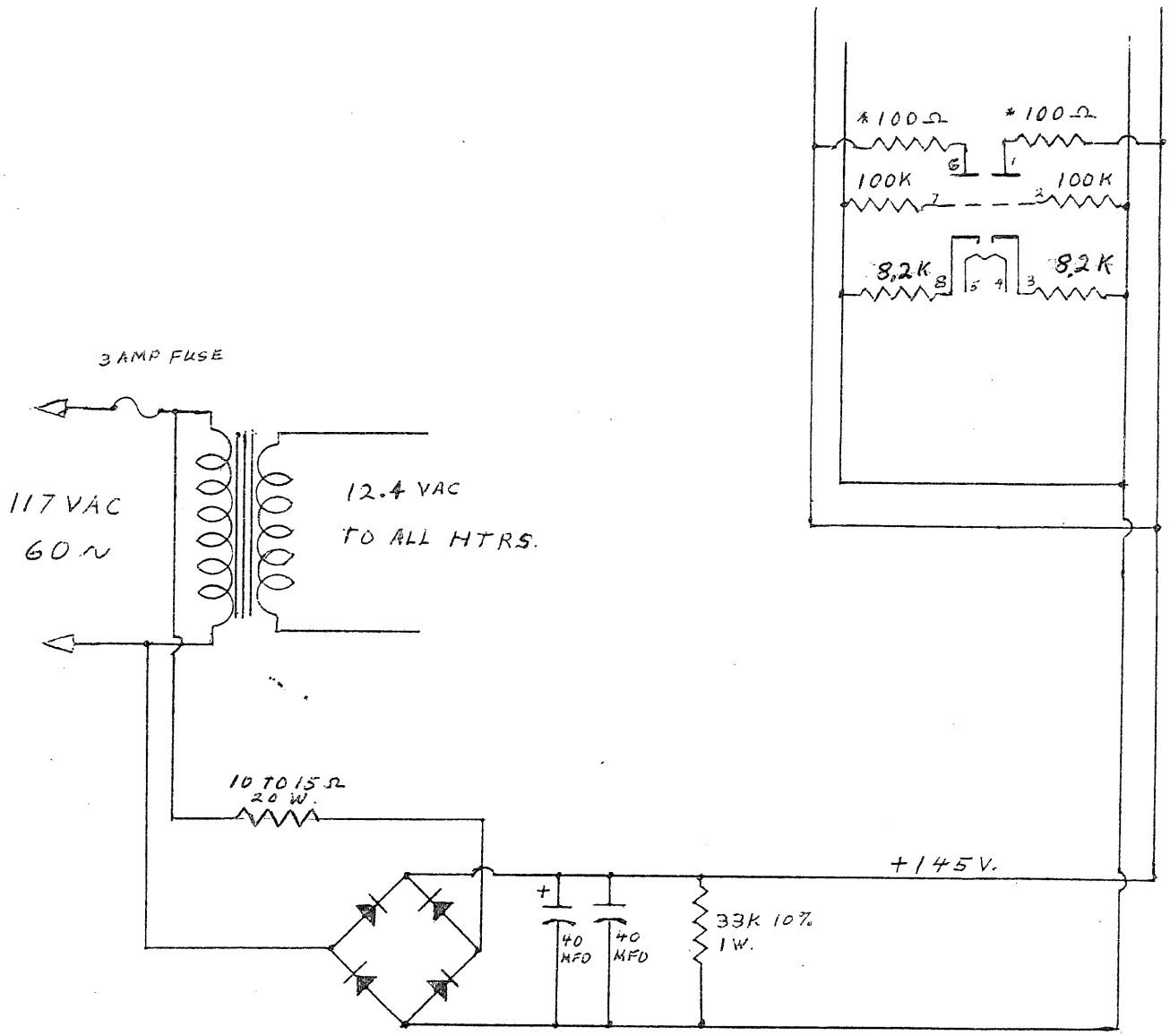
4. SELECTION. For selection instructions on above selected part number, see specification for that part number.

L.W.

12AT7

154-0039-02
SUB. 154-0039-00

AGING RACK FOR 157-0010-00



ONE OF 40 SOCKETS

11-6-70
L.W.

ALL RESISTORS 10% ½ W
IF NOT STATED OTHERWISE.

100 Ω PLATE RESISTOR MAY BE OMITTED.

SPECIFICATION NO. 154-0039-02
10-27-76

1. ITEM NAME AND DESCRIPTION. 12AT7/ECC81 ELECTRON TUBE, 9 pin miniature, high-mu twin triode. Manufactures heater rating; series 12.6 volts, 150mA.

2. TEKTRONIX SELECTED PART NUMBER. 157-0010-00.

3. AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded.

Heater voltage with 40 sockets loaded shall not exceed 12.6 volts nor be less than 12.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfd are used to rectify and filter the 117 volt, 60 cycle line.

Plate voltage, 130 to 155 volts.

Both supplies floating from chassis.

Cathode-circuit resistor, 8.2K ohm $\pm$ 10%.

Grid-circuit resistor, 100K ohm $\pm$ 10%.

3.2 AGING CYCLING PROCEDURE.

The 40 socket aging racks are placed in portable AGER-CYCLE units which are pre-set to automatically control cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

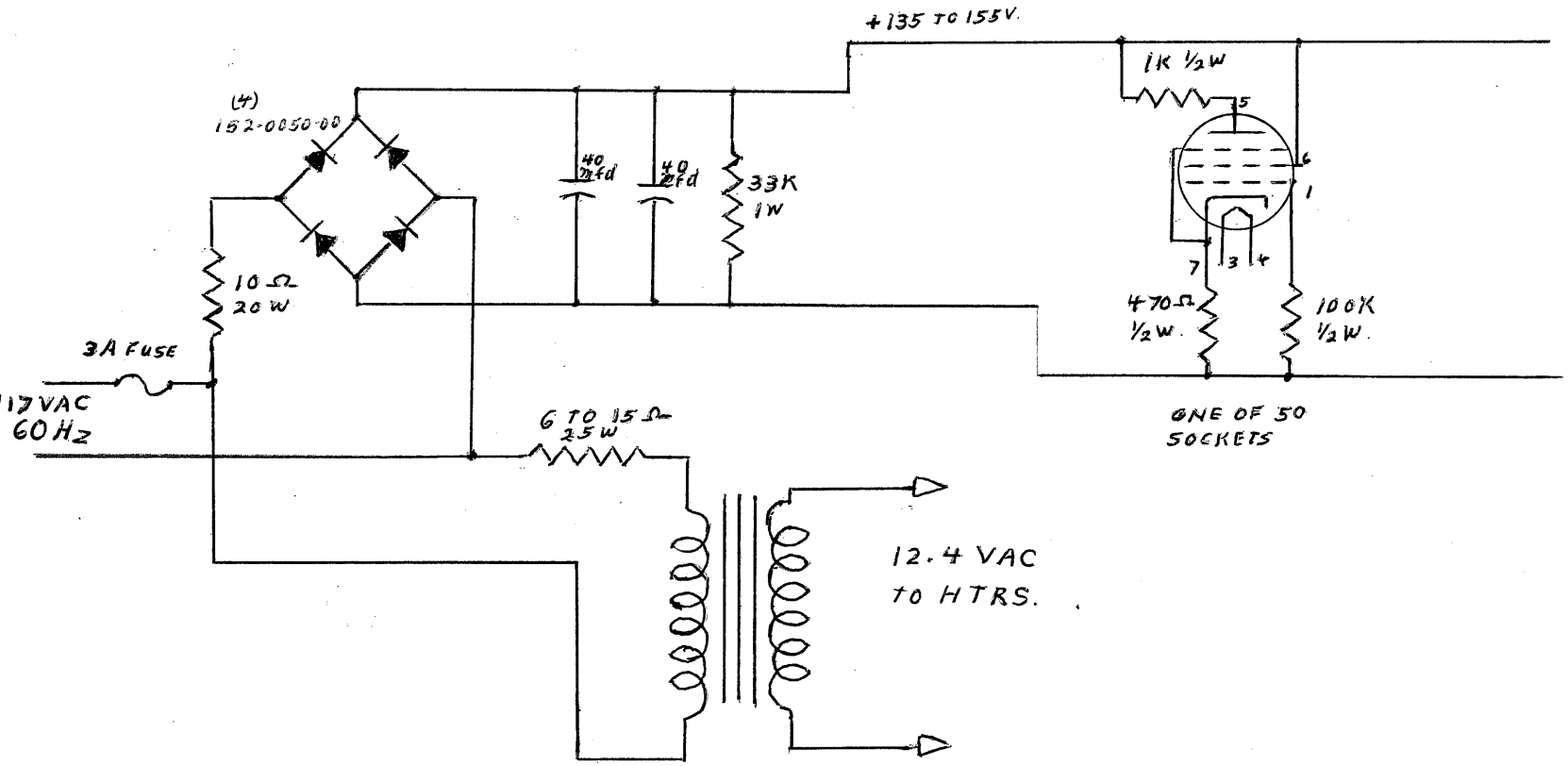
Power-on time, not less than 88 hours and not over 120 hours.

4. SELECTION. For selection instructions on above selected part number, see specification for that part number.

L.W.

12AU6 AGING RACK

154-0040-05



10-26-76
K.W.

SPECIFICATION NO. 154-0040-05
10-26-76

1. ITEM NAME AND DESCRIPTION. 12AU6/8426A ELECTRON TUBE, 7 pin miniature, sharp cutoff pentode. Manufactures heater rating; 12.6 volts, 150 mA.

2. TEKTRONIX SELECTED PART NUMBERS. 157-0038-00, 157-0050-00, 157-0071-00, 157-0076-00, 157-0077-00, 157-0078-00, and 157-0114-00 are selected from 154-0040-05.

3. AGING.

3.1 AGING CONDITIONS.

50 socket aging rack with never less than 40 tubes inserted.

Heater voltage with 50 sockets loaded shall not exceed 12.6 volts nor be less than 12.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfd are used to rectify and filter the 117 volt 60 cycle line.

Plate voltage, 130 to 155 volts.

Both supplies floating from chassis.

Plate-circuit resistor, 1KΩ $\pm$ 10%.

Cathode-circuit resistor, 470Ω $\pm$ 10%.

Grid-circuit resistor, 100KΩ $\pm$ 10%.

3.2 AGING CYCLE PROCEDURE.

The 50 socket aging racks are placed in portable AGER-CYCLE units which are pre-set to automatically control the cycle-age time.

Power applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power-on time, not less than 100 hours and not over 130 hours.

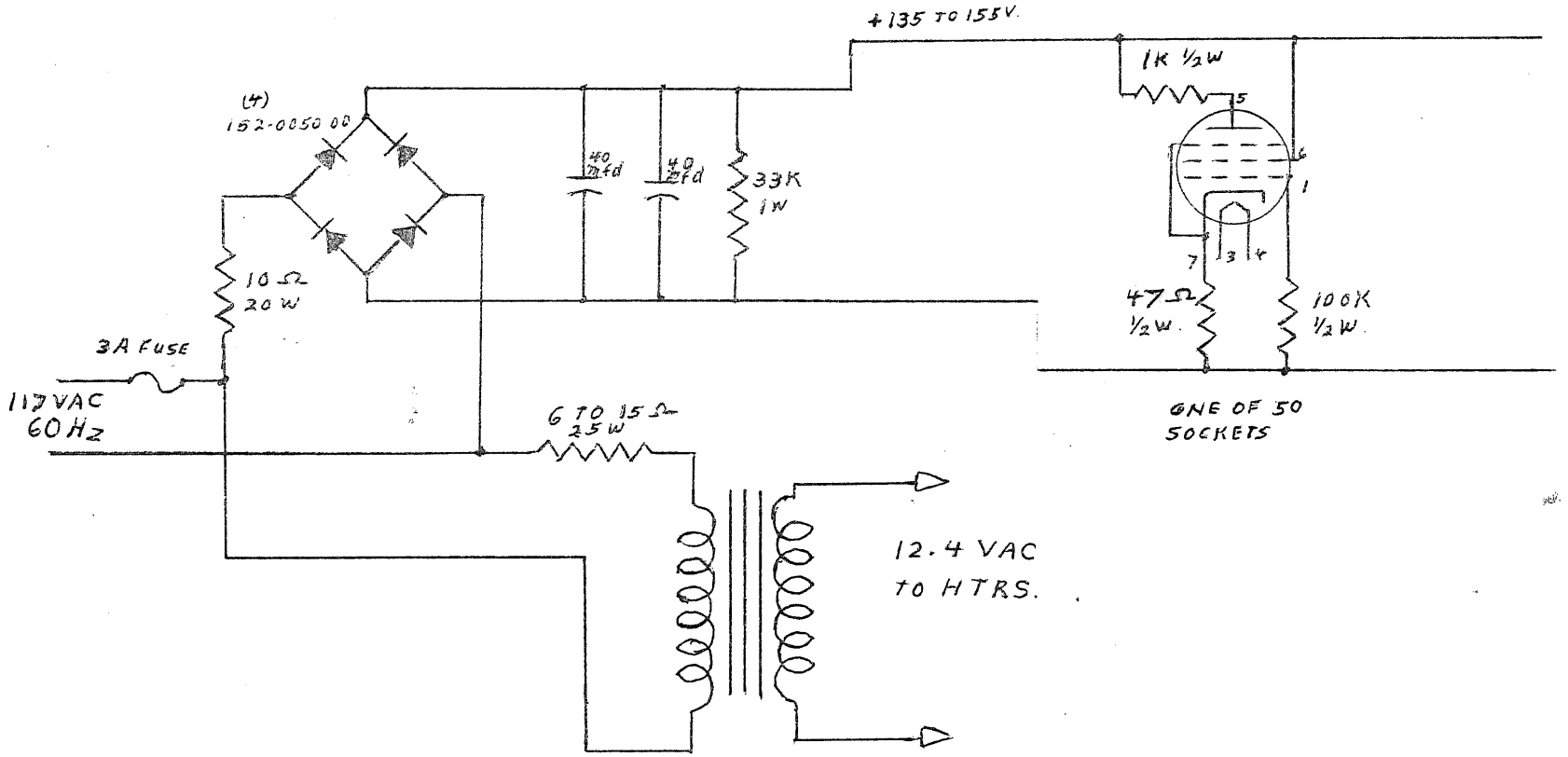
4. SELECTION.

For selection instructions on above selected part numbers, see specification for each part number.

L.W.

12AU6 AGING RACK

154-0040-05
"B" TYPE



10-26-76
2.3

1. ITEM NAME AND DESCRIPTION

12AU6/8426A ELECTRON TUBE, 7 pin miniature, sharp cutoff pentode. Manufactures heater rating; 12.6 volts, 150 milliamperes.

2. TEKTRONIX SELECTED PART NUMBER

157-0114-00 is selected from 154-0040-05.

3. AGING

3.1 AGING CONDITIONS

50 socket "B" type 12AU6 aging rack with never less than 40 tubes inserted.

Heater voltage with 50 sockets loaded shall not exceed 12.6 volts nor be less than 12.0 volts. A 25 watt resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfd is used to rectify and filter the 117 volt 60 Hz line.

Plate voltage, 130 to 155 volts.

Both heater and B+ supplies floating from chassis.

Plate-circuit resistor, 1K ohms ± 10%.

Grid-circuit resistor, 100K ohms ± 10%.

Cathode-circuit resistor, 47 ohm ± 10%.

Cathode current 12 milliamperes ± 20%.

3.2 AGING CYCLE PROCEDURE

The 50 socket aging racks are placed in a portable AGER-CYCLE unit which is preset to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power-on time, not less than 100 hours and not over 130 hours.

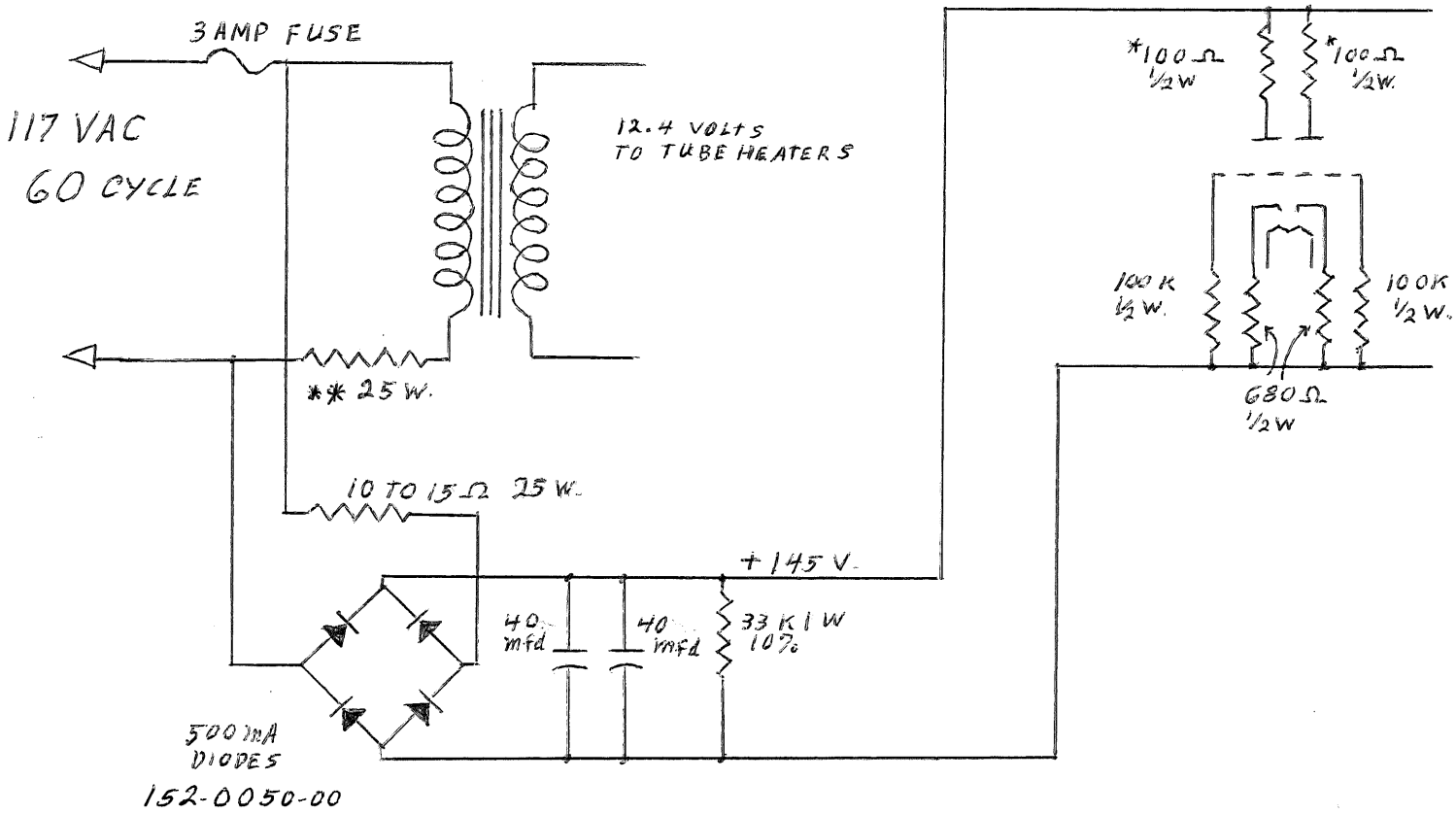
4. SELECTION

For selection instructions on above part number, see specification for that part number.

L.W.

12AU7 AGING RACK

154-0041-00



ONE OF 40 SOCKETS

* MAY NOT BE ON ALL RACKS

** USE WITH SOME TRANSFORMERS TO DROP HTR. VOLTAGE

12-2-76
L W W

1 ITEM NAME AND DESCRIPTION. 12AU7/ECC-82 ELECTRON TUBE, 9 pin miniature, medium-mu twin triode. Manufactures heater rating (series) 12.6 volts, 150 MA.

2 TEKTRONIX SELECTED PART NUMBER. 157-0049-00.

3 AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded.

Heater voltage with 40 sockets loaded shall not exceed 13.0 volts nor be less than 12.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B-Plus Supply. A bridge rectifier, a 10 to 15 Ω wire wound resistor and a capacitor of not less than 80 mfd are used to recify and filter the 117 volt, 60 cycle line.

Plate voltage, 130 to 155 volts.

Both heater and B-Plus supplies are floating.

Cathode-circuit resistor, 680 Ω ± 10%.

Grid-circuit resistor, 100 K Ω ± 10%.

3.2 AGING CYCLING PROCEDURE.

The 40 socket aging racks are placed in portable AGER-CYCLE units which are pre-set to automatically control cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power on time, not less than 88 hours and not over 120 hours.

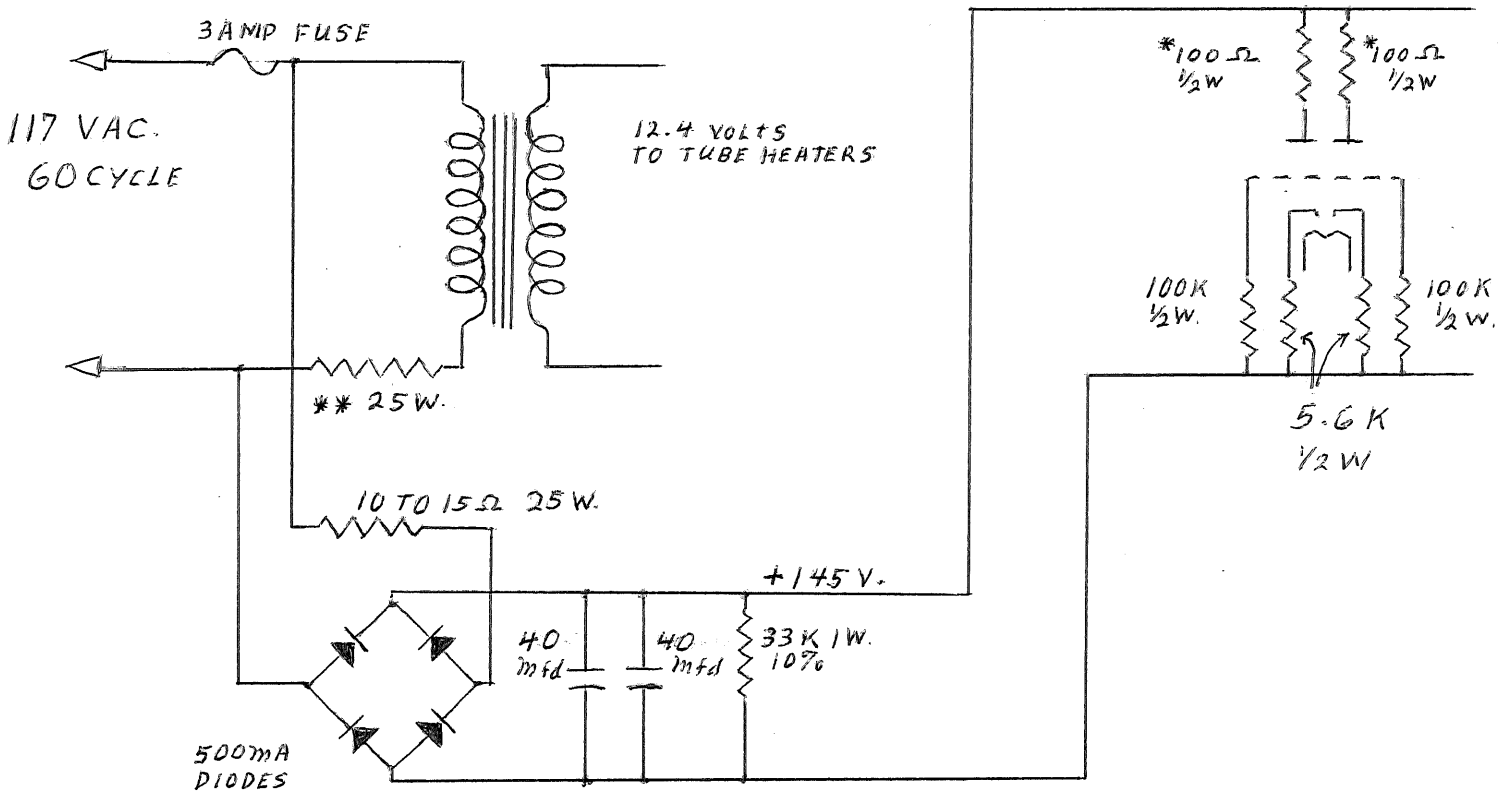
4 SELECTION. For selection instructions on above selected part number, see specification that part number.

LW/ec

154-0043-00

12AX7

AGING RACK



* MAY NOT BE ON ALL RACKS

** USE WITH SOME TRANSFORMERS TO DROP HTR. VOLTAGE

12-2-76

L.W.W.

1. ITEM NAME AND DESCRIPTION

12AX7/ECC83 ELECTRON TUBE, 9 pin miniature, high-Mu twin triode. Manufactures heater rating (series) 12.6 volts, 150 milliamps.

2. TEKTRONIX SELECTED PART NUMBER

157-0032-00.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded to avoid excessive voltage to tubes.

Heater volts with 40 sockets loaded shall not exceed 12.8 volts not be less than 12.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the 117 volt, 60 Hz line power.

Plate voltage, +130 to +155 volts.

Both heater and B+ supplies are isolated from chassis.

Plate-circuit resistor, 100 ohm $\pm$ 10%.

Cathode-circuit resistor, 5.6 K ohm $\pm$ 10%.

Grid-circuit resistor, 1K ohm $\pm$ 10%.

Cathode current approximately 0.26 milliamp per triode section of each tube.

3.2 AGING CYCLING PROCEDURE

The 40 socket aging racks are placed in a portable AGER-CYCLE unit which is pre-set to automatically control cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power-on time, not less than 88 hours and not over 154 hours.

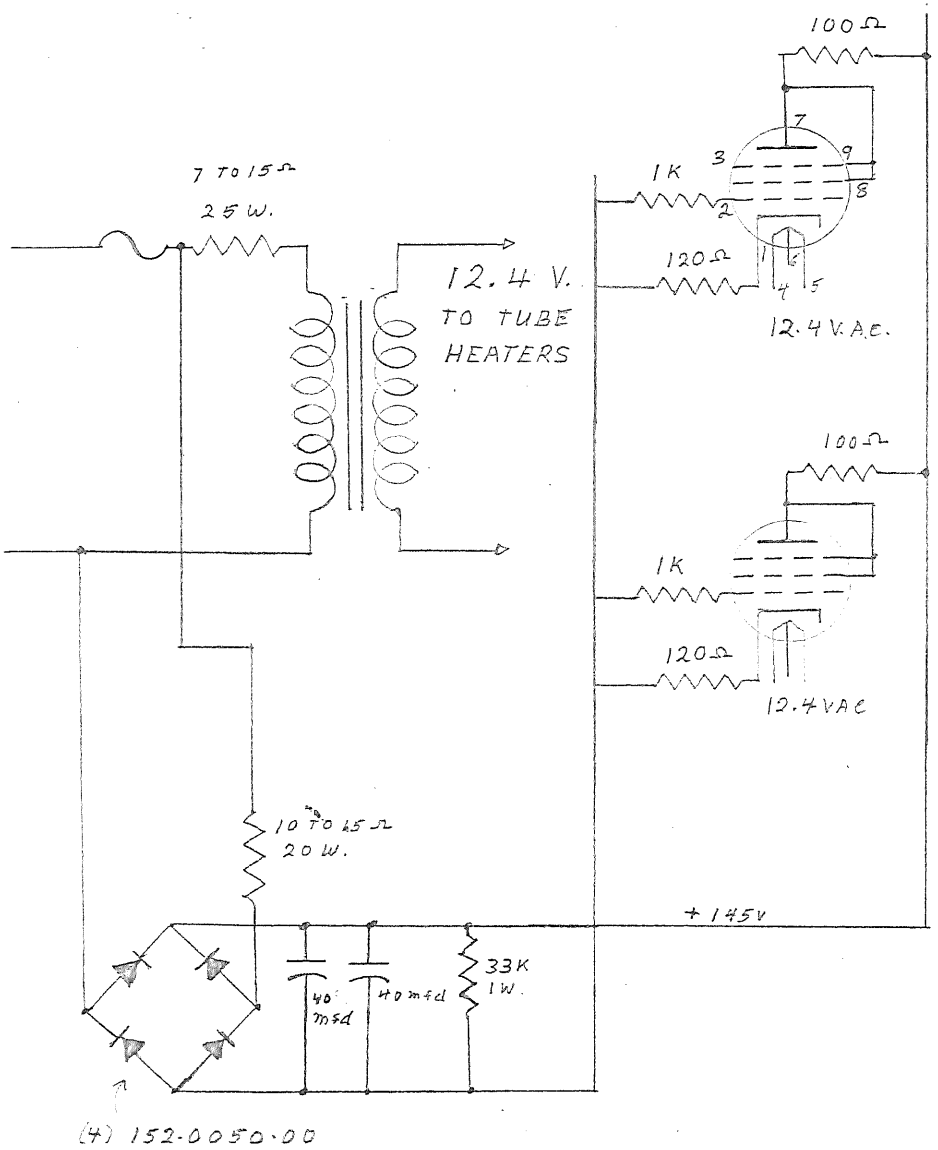
4. SELECTION

For specifications on the above selected part number see specification on that part number.

LW/ec

154-0047-00

12BY7



TWO OF 40 SOCKETS ON A 12BY7
AGING RACK

ALL RESISTORS ±10%, ½ WATT.
ACCEPT WHERE NOTED

6-17-68
LEMOYNE WARNER

1. ITEM NAME AND DESCRIPTION. 12 BY 7A ELECTRON TUBE, 9 pin miniature, sharp-cutoff pentode. Manufactures heater rating; series 12.6 volts, 300mA.

2. TEKTRONIX SELECTED PART NUMBER. 157-0053-00

3. AGING.

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 35 sockets loaded.

Heater voltage with 40 sockets loaded shall not exceed 12.6 volts nor be less than 12.0 volts. A wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfd are used to rectify and filter the 117 volt 60 cycle line.

Plate voltage, 130 to 150 volts.
Both supplies floating from chassis.
Tube is aged as a triode with plate, suppressor and screen tied together.
Plate-circuit resistor, 100 ohm ± 10%.
Cathode-circuit resistor, 120 ohm ± 10%.
Grid-circuit resistor, 1k ohm ± 10%.

3.2 AGING CYCLING PROCEDURE.

The 40 socket aging racks are placed in portable AGER-CYCLE units, which are pre-set to automatically control cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power-on time, not less than 176 hours and not over 206 hours.

4. SLECTION. For selection instructions on above selected part number, see specification for that part number.

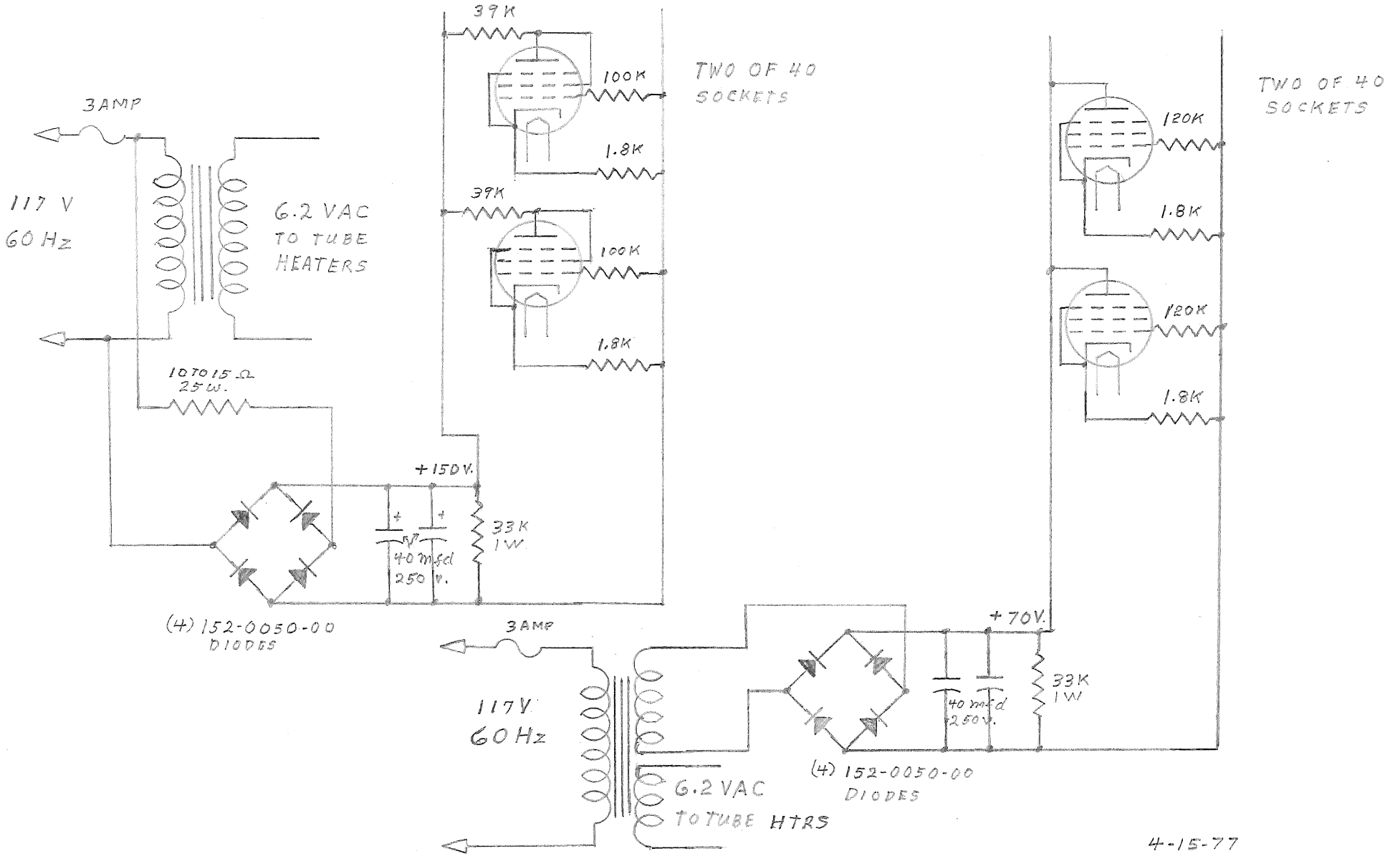
LW/bb

5879

154-0055-00

"A" TYPE RACK

"B" TYPE RACK



4-15-77

L.W.W.

1. ITEM NAME AND DESCRIPTION

5879 ELECTRON TUBE, 9 pin miniature, sharp-cutoff pentode. Manufactures heater rating, 6.3 volts, 150 milliamps.

2. TEKTRONIX SELECTED PART NUMBERS

157-0051-00 and 157-0052-00 are selected from this part.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded to avoid excessive voltage on tubes.

Heater volts with 40 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. There are two types use on these racks. Type "A" uses a bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfd to rectify and filter the 117 volt, 60 Hz line power. Type "B" uses the power transformer to drop the line voltage to 70 volts. It is then rectified with a bridge rectifier and filtered with a capacitor of not less than 80 mfd.

Following are the parameters for the "A" type rack:

Plate supply volts, +145 to +155 volts.
Plate-circuit resistor, 39 K ohms ± 10%.
Screen-circuit, connected to plate at tube socket.
Cathode-circuit resistor, 1.8 K ohm ± 10%.
Grid-circuit resistor, 100 K ohm ± 10%.
Both heater and B+ supplies isolated from the chassis.
Cathode current, 1.5 milliamps ± 10%.

Following are the parameters for the "B" type rack:

Plate supply volts, +65 to +75 volts.
Plate-circuit connected directly to B+.
Screen-circuit connected directly to B+.

Cathode-circuit resistor, 1.8 K ohm ± 10%.

Grid-circuit resistor, 120 K ohm ± 10%.

Heater supply isolated from chassis.

B+ supply may or may not be isolated from chassis.

Cathode current 1.2 milliamps ± 10%.

3.2 AGING-CYCLE PROCEDURE

The 40 socket aging racks are placed in a portable AGER-CYCLE unit which is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power on time, not less than 75 hours and not over 140 hours.

4. SELECTION

For selection specifications on above selected part numbers, see specification for those part numbers.

LW/ec

1. ITEM NAME AND DESCRIPTION. 6AW8A ELECTRON TUBE.
9 pin miniature, high-mu triode -- sharp-cutoff pentode. Manufactures heater rating; 6.3 volts, 600 mA.

2. TEKTRONIX SELECTED PART NUMBER. 157-0039-00.

3. AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 40 socket aging racks with never less than 35 sockets loaded.

Transformer supplied 60 Hz heater voltage with 40 sockets loaded with 6AW8A tubes shall not exceed 6.3 volts AC nor be less than 6.0 volts AC.

B+ SUPPLY. A bridge rectifier (each diode not less than 500 mA) in series with a 15 ohm 25 watt wirewound resistor is used to rectify the 117 volt, 60 Hz supply line power. A capacitor of not less than 80 mfd is used with the above stated 15 ohm resistor to filter the B+ supply.

Only the pentode section of the 6AW8A is aged in a static condition. No connections are made to the triode section of tube.

Aging conditions given below:

Both heater and B+ supply floating from chassis.

Plate supply voltage, 136 volts $\pm$ 2%.

Plate-circuit resistor, 100 ohm $\pm$ 10%.

Cathode-circuit resistor, 220 ohm $\pm$ 10%.

Grid-circuit resistor, 1K ohm $\pm$ 10%.

Note: Plate-circuit and grid-circuit resistors are for suppressing parasitic oscillations.

Both power supplies are floating from chassis.

3.2 AGING CYCLING PROCEDURE.

The tubes are aged with power applied to aging rack 55 minutes of each hour and all power removed for 5 minutes of each hour.

Total power-on aging time, not less than 75 hours and not over 120 hours.

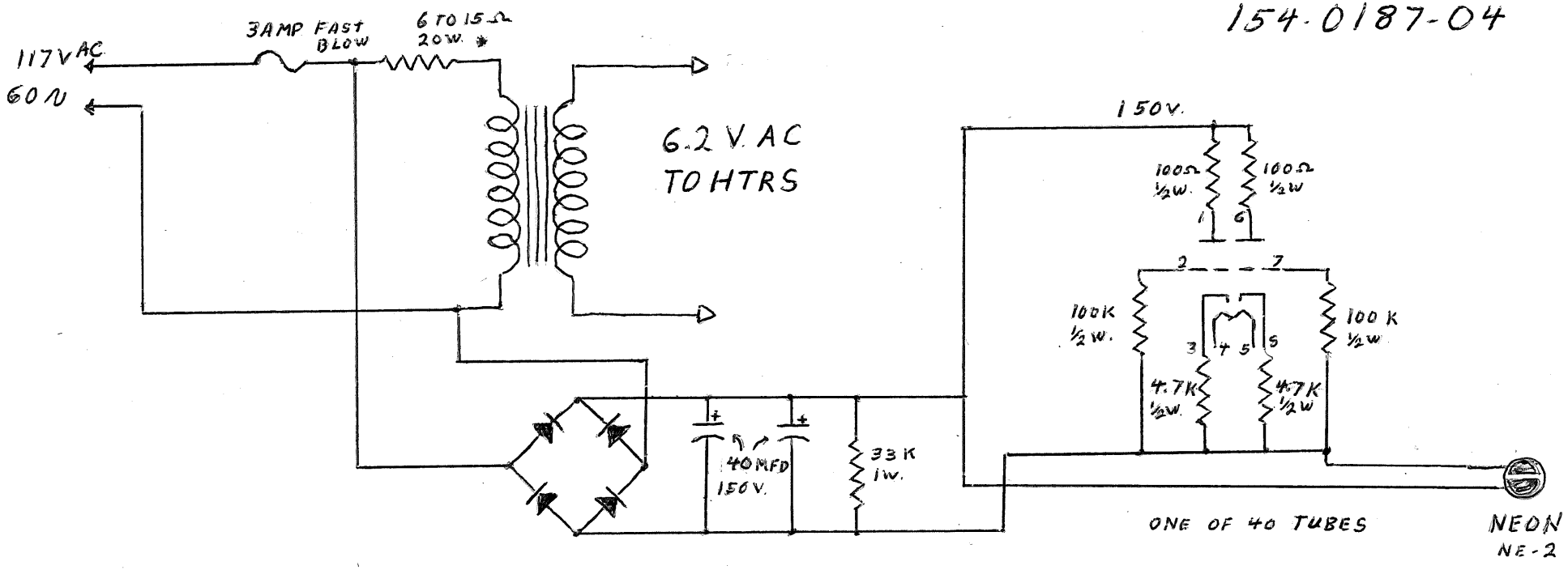
4. SELECTION. See specification number 157-0039-00.

LWW/lv

6DJ8 AGING RACK

154-0187-00 OR

154-0187-04



* SELECTED FOR 6.2 V. HTR VOLTS WITH RACK LOADED.

LEMOYNE WARNER

2-26-65

1. ITEM NAME AND DESCRIPTION. 6DJ8/ECC 88 ELECTRON TUBE, 9 pin miniature, medium - Mu twin triode. Manufactures heater rating; 6.3 volts, 365mA.

2. TEKTRONIX SELECTED PART NUMBERS. 157-0120-00 and 157-0125-00.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 35 sockets loaded.

Heater voltage with 40 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfd are used to rectify and filter the 117 volt 60 cycle line.
Plate voltage, 130 to 150 volts.
Both supplies floating from chassis.
Plate-circuit resistor, 100 ohm $\pm$ 10%.
Grid-circuit resistor. 100k ohm $\pm$ 10%
Cathode-circuit resistor 4.7 ohm $\pm$ 10%

3.2 AGING CYCLING PROCEDURE

The 40 socket aging racks are placed in portable AGER-CYCLE units which are pre-set to automatically control cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power-on time, not less than 88 hours and not over 120 hours.

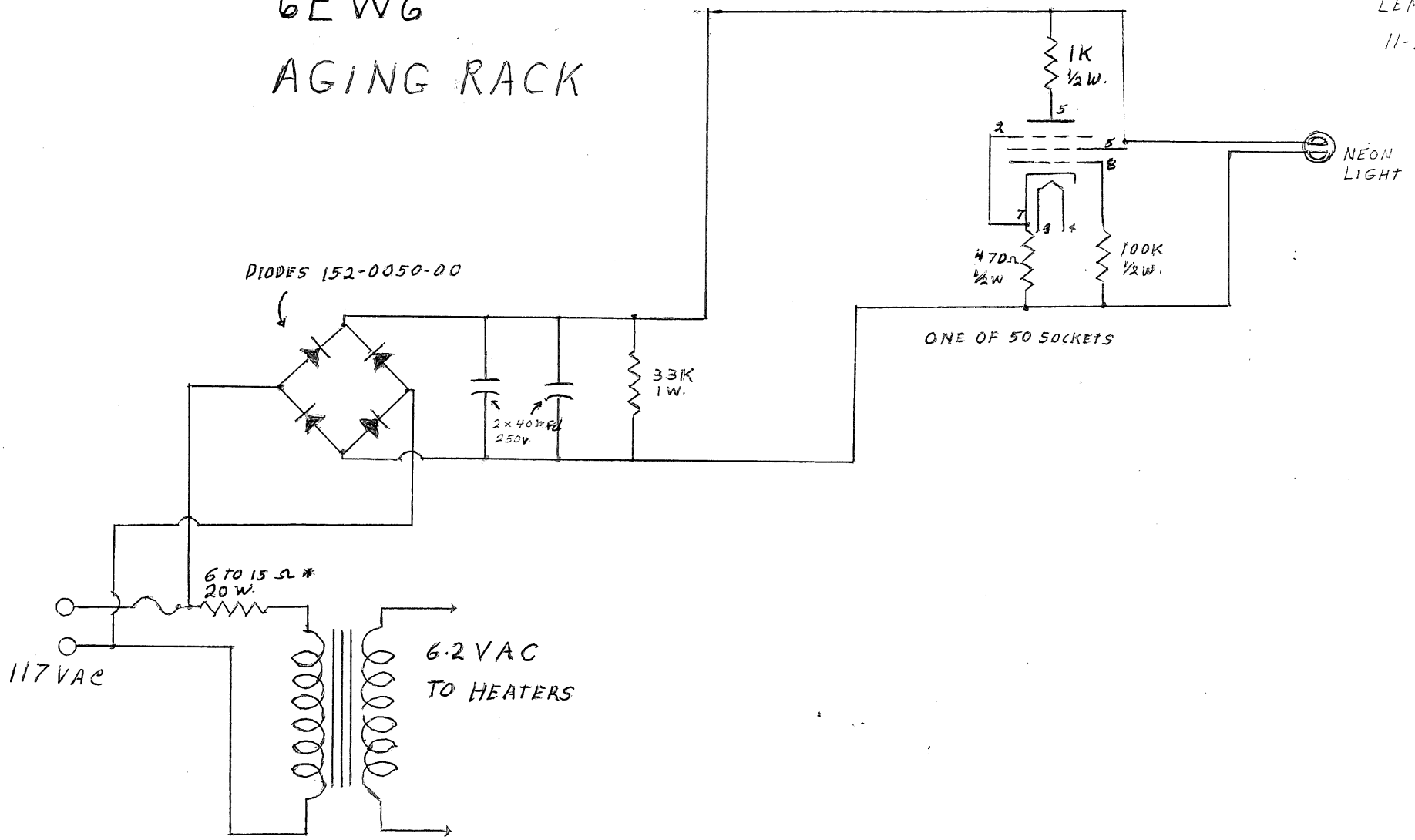
4. SELECTION. For selection instructions on above part numbers, see specification for those part numbers.

LW/bb

154-0212-00

6EW6
AGING RACK

LEMOYNE W.
11-15-65



* SELECTED FOR 6.2 VOLTS ON HEATERS WITH RACK LOADED.

1. ITEM NAME AND DESCRIPTION

6EW6 ELECTRON TUBE, 7 pin miniature, sharp-cutoff pentode. Manufactures heater rating; 6.3 volts, 400 milliamps.

2. TEKTRONIX SELECTED PART NUMBER

157-0069-00 is selected from this tube.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 50 socket aging racks with never less than 40 tubes inserted to avoid excessive voltage to tubes.

Heater voltage with 50 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the 117 volt 60 Hz line power.

Plate voltage, + 130 to +150 volts.

Both heater and B+ supplies floating from chassis.

Plate-circuit resistor, 1 K ohm $\pm$ 10%.

Cathode-circuit resistor, 470 ohm $\pm$ 10%.

Grid-cathode resistor, 100 K ohm $\pm$ 10%.

3.2 AGING-CYCLE PROCEDURE

The 50 socket aging racks are placed in a portable AGER-CYCLE unit is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power on time, not less than 60 hours and not over 130 hours.

4. SELECTION

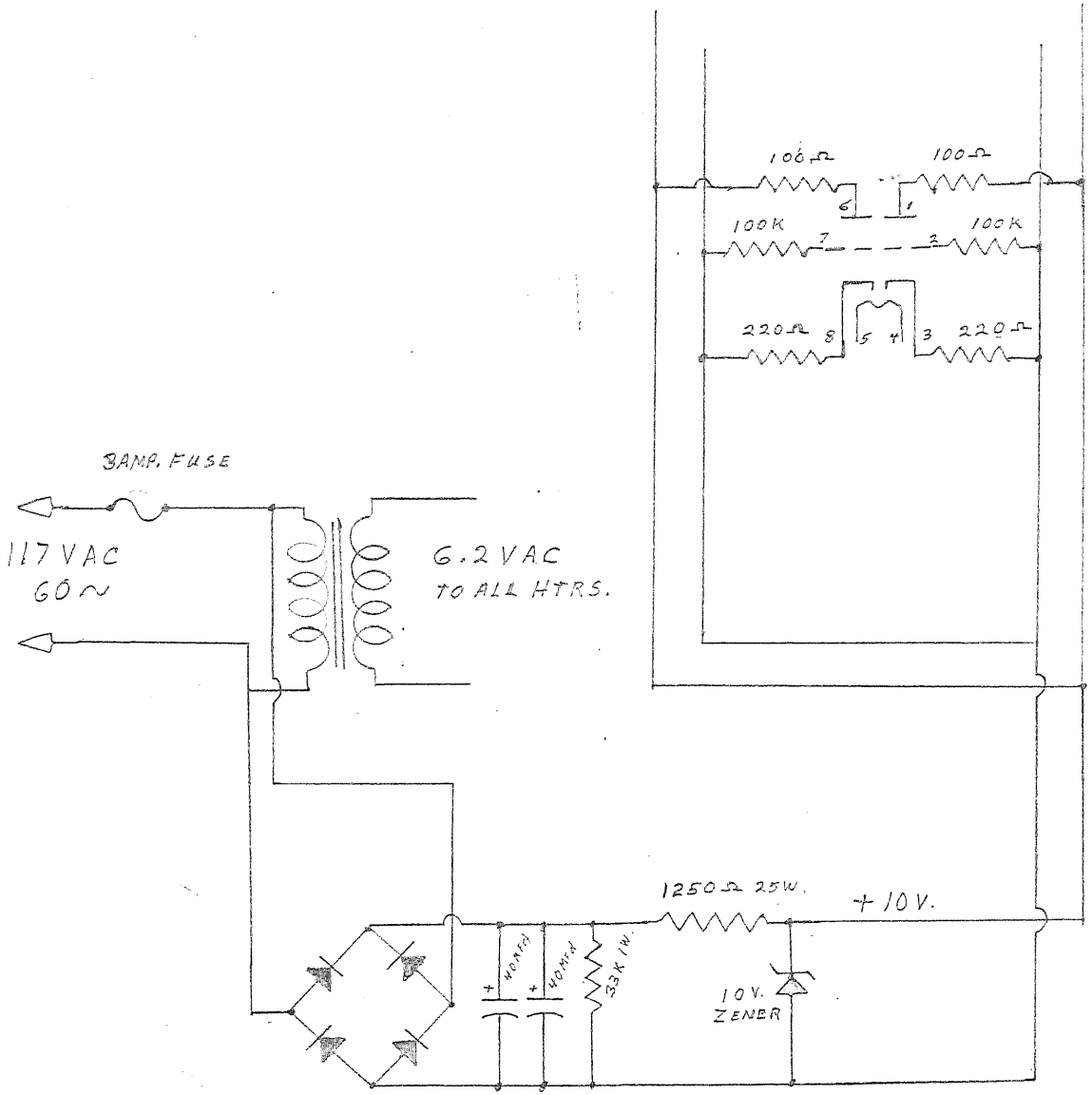
For selection specification on above part number, see specification for that part number.

L. W.

154-0259-00

6GM8/ECC86

6GM8



ONE OF 40 SOCKETS

11-6-70

L. W.

ALL RESISTORS 10% 1/2 W
IF NOT STATED OTHERWISE.

1. ITEM NAME AND DESCRIPTION

6GM8/ECC86 ELECTRON TUBE, 9 pin miniature, frame grid, twin triode, designed for low supply voltage applications. Manufactures heater rating; 6.3 volts, 330 milliamps. Maximum plate voltage 30 volts.

2. TEKTRONIX SELECTED PART NUMBERS

157-0068-00

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded.

Heater voltage with 40 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the 117 volt 60 Hz line power. A 1250 ohm 25 watt voltage dropping resistor and a 10 volt zener diode drops the B+ voltage to specified value.

Plate voltage, +10 volts $\pm$ 10%.

Both heater and B+ supplies isolated from chassis.

Plate-circuit resistor, 100 ohms $\pm$ 10%.

Cathode-circuit resistor, 220 ohms $\pm$ 10%.

Grid-circuit resistor, 100K ohms $\pm$ 10%.

Cathode current, approximately 1.8 milliamps per cathode.

3.2 AGING-CYCLE PROCEDURE

The 40 socket aging racks are placed in a portable AGER-CYCLE unit

which is preset to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power removed for 5 minutes of each hour.

Power on time, not less than 36 hours and not over 102 hours.

4. SELECTION

For selection specifications on above part number, see specification for that part number.

LW/ec

1. ITEM NAME AND DESCRIPTION

0G3 cold cathode, 7 pin gas reference tube. Manufactured by Amperex as 0G3/85A2 with the following specifications:

Operating volts, approx., 85 volts.
Operating limits, 83 to 85 volts.
Recommended quiescent current, 6 milliamps.
Ignition voltage, 125 volts max.
Current range, 1 to 10 millamps.

2. TEKTRONIX SELECTED PART NUMBER

157-0064-00

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on a 100 socket aging rack. Power supply is set to supply 137.35 volts to aging rack. Each socket has a 8.89 K 1% resistor is series with pin 1 (anode).

Anode voltage, 85 volts $\pm$ 2%.

Anode current, 5.8 milliamps $\pm$ 2%.

3.2 AGING TIME

Not less than 200 hours and not over 272 hours.

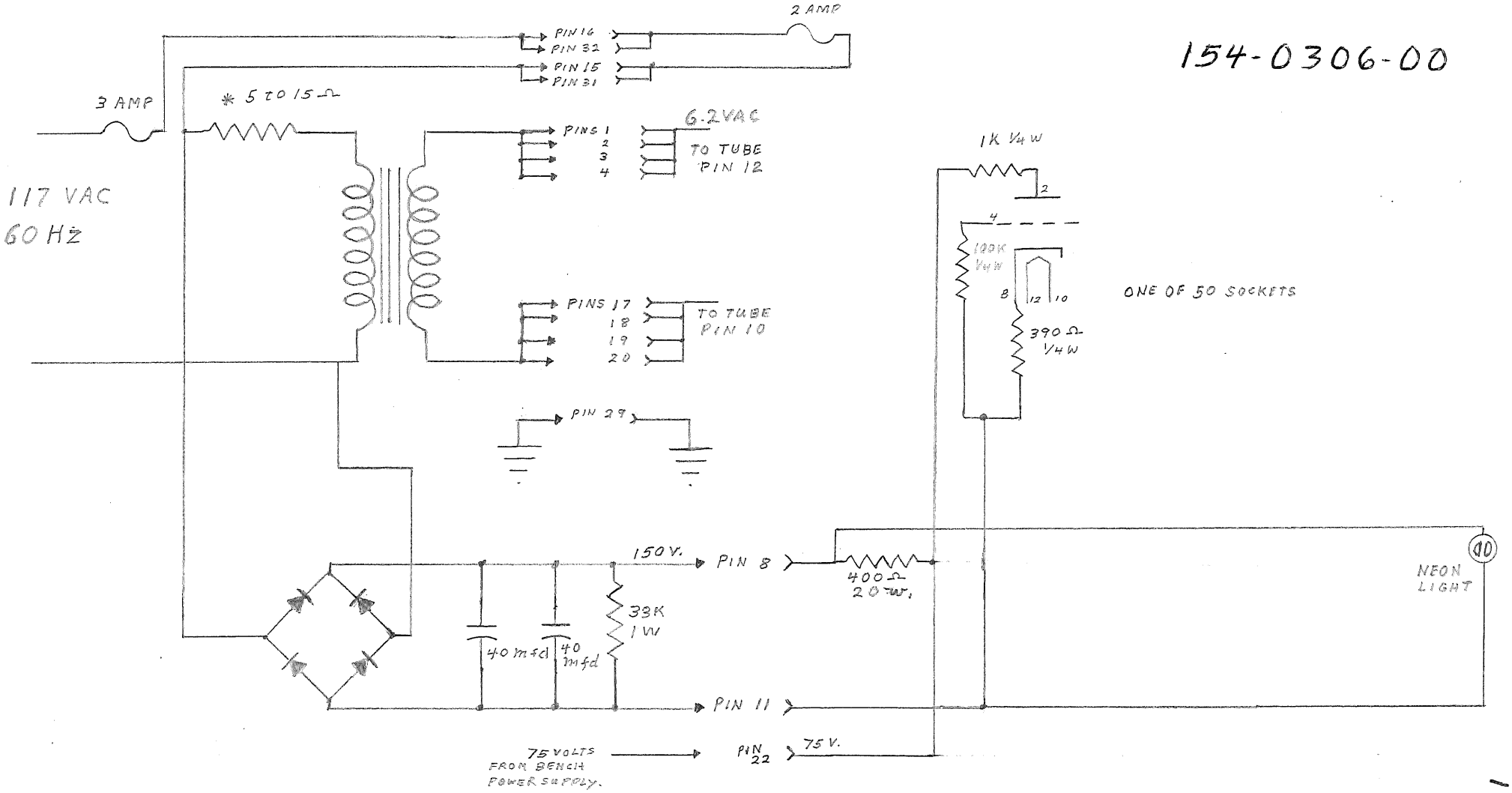
4. SELECTION

For selection instructions on above part number, see specification for that part number.

LW/ec

7586 AGING RACK

154-0306-00



* VALUE SELECTED FOR 6.2 VOLTS TRANSFORMER OUTPUT.

154-0306-00 A

2212

1-1-76

1 ITEM NAME AND DESCRIPTION. 7586 ELECTRON TUBE, Nuvistor type, medium-mu triode. Manufactures heater rating; 6.3 volts, 135 MA.

2 TEKTRONIX SELECTED PART NUMBERS. 157-0080-00, 157-0103-00, 157-0105-00, 157-0106-00, 157-0110-00 and 157-0121-00 are selected from this tube. (See specification no. 154-0306-00 B for this tube selected to 157-0128-00).

3 AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 50 socket plug-in type aging racks with never less than 35 sockets loaded. Only the nuvistor sockets with associated resistors are on the portable part of aging rack. Power supply for each rack is mounted on aging unit structure.

Heater voltage with 50 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A wire wound resistor may be used in the transformer primary circuit, located on the Power Supply, to obtain the specified heater voltage.

B-Plus supply. A bridge rectifier, 400 Ω 20 watt wire wound resistor and a capacitor of not less than 80 mfd are used to provide filtered D.C. power to the tubes.

A 32 pin Amphenol connector is used to couple the power supply to aging rack as follows:

Pins 1, 2, 3, 4	To tube heaters.
Pins 17, 18, 19, 20	To return from tube heaters.
Pin 8	To tube plates.
Pin 11	To tube cathodes and grids.
Pins 16, 32	To fuse interlock.
Pins 15, 31	From fuse interlock.
Pin 22	Used only on work bench power supply.

Plate supply voltage, 157 to 162 volts when aging. 75 volts at work bench. (See note 1, below).

Both B-Plus and heater supply are floating from chassis.

Plate-circuit resistor, 400 Ω 20 watt in series with all tubes. 1 K Ω ± 10% on each tube.

Plate voltage, Approx. 80 volts.

3.1 AGING CONDITIONS (con't)

Grid circuit resistor, 100 K Ω ± 10% each tube.

Cathode-circuit resistor, 390 Ω ± 10% each tube.

These tubes are not cycled but aged continuously for not less than 96 hours but not over 126 hours.

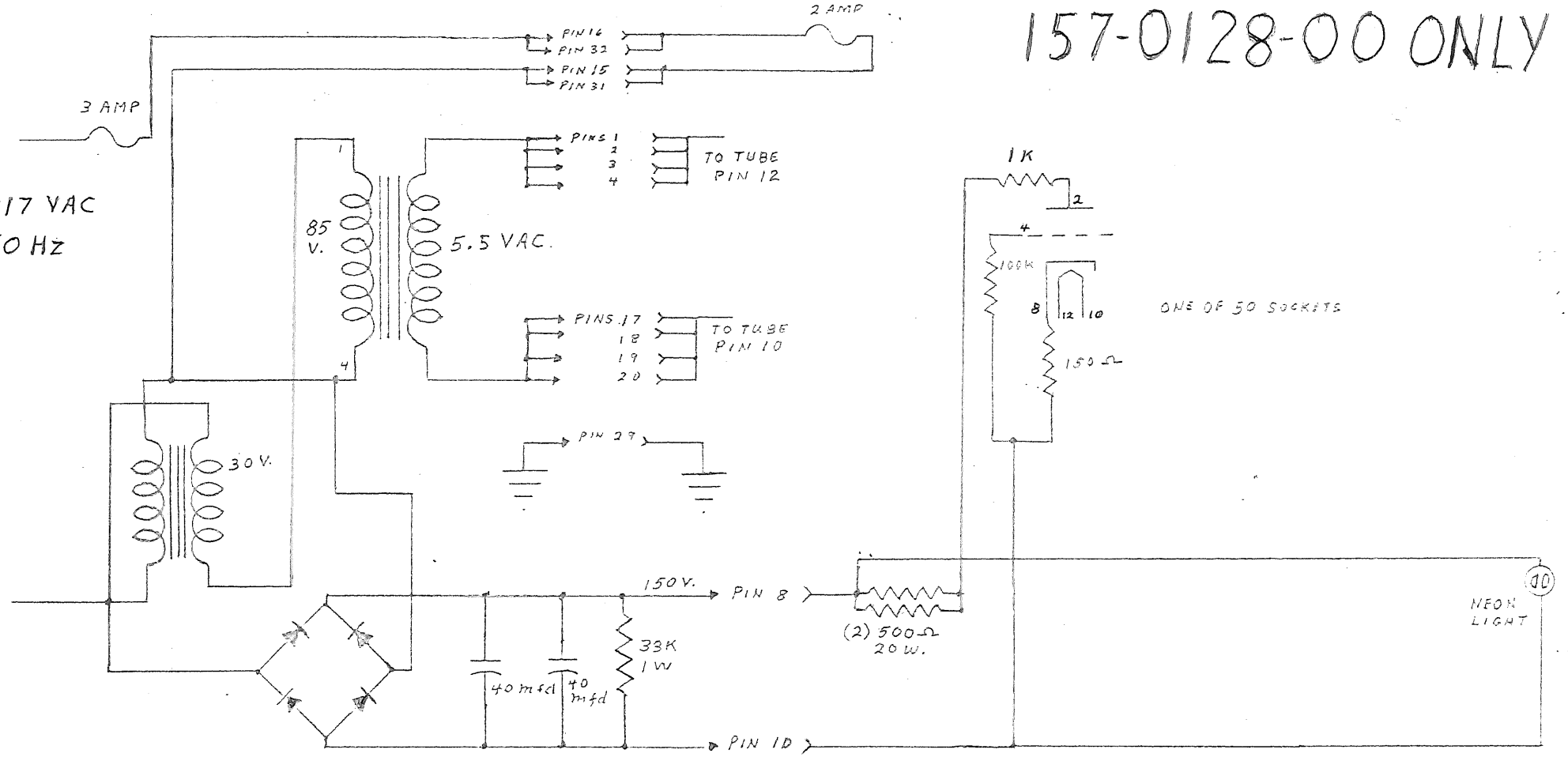
4 SELECTION. For selection instructions on the above selected part numbers, see specification for each number.

NOTE 1. The power supply used at the work bench supplies 75 volts directly to the plate resistors on aging rack instead of 157 to 162 volts thru a 400 Ω resistor. This prevents damage to the nuvistors, remaining on the aging rack, from excessively high plate voltage, which would occur as the load is reduced by the removal of nuvistors from the aging rack.

It is important that each rack is fully loaded with 50 nuvistors while aging since less than 50 would decrease the load on power supply and again result in excessively high plate voltage to nuvistors.

LW

7586 AGING RACK FOR 157-0128-00 ONLY



154-0306-00 B

L.W.W. 11-4-76

11. 76

1 ITEM NAME AND DESCRIPTION. 7586 ELECTRON TUBE, Nuvistor type, medium-mu triode. Manufactures heater rating; 6.3 volts, 135 MA.

2 TEKTRONIX SELECTED PART NUMBERS. 157-0128-00 is selected from this tube (see specification number 154-0306-00 A for this tube selected for other part numbers).

3 AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 50 socket plug-in type aging racks with never less than 35 sockets loaded. Only the nuvistor sockets with associated resistors are on the portable part of the aging racks. Power supply for each rack is mounted on the aging unit structure.

Heater voltage with 50 sockets loaded shall not exceed 5.6 volts nor be less than 5.4 volts. A standard 6.3 volt filament transformer is used with a bucking transformer to drop the heater volts to the specified value.

B-Plus Supply. A bridge rectifier, 250 Ω 40 watt wire wound resistor and a capacitor of not less than 80 mfd are used to provide filtered D.C. Power to the tubes.

A 32 Pin Amphemol connector is used to couple the power supply to the aging rack as follows:

Pins 1, 2, 3, 4	To tube heaters.
Pins 17, 18, 19, 20	To return from tube heaters.
Pin 8	To tube plates.
Pin 10	To tube cathodes and grids.
Pin 16, 32	To fuse interlock.
Pin 15, 31	From fuse interlock.

Plate supply voltage, 145 volts.

Both B-Plus and heater supply floating from chassis.

Plate-circuit resistor, two 500 Ω 20 watts in parallel, in series with all tubes, and a 1 K Ω ± 10% on each tube.

Plate voltage, 95 volts.

Grid circuit resistor, 100 K Ω ± 10% each tube.

Cathode-circuit resistor, 150 Ω ± each tube.

3.1 AGING CONDITIONS (con't)

These tubes are not cycled but aged continuously for not less than 96 hours but not over 126 hours.

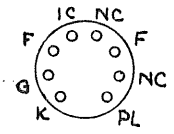
4 SELECTION. For selection instructions on the above selected part number, see specification for that number.

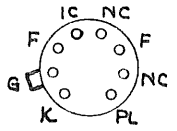
LW

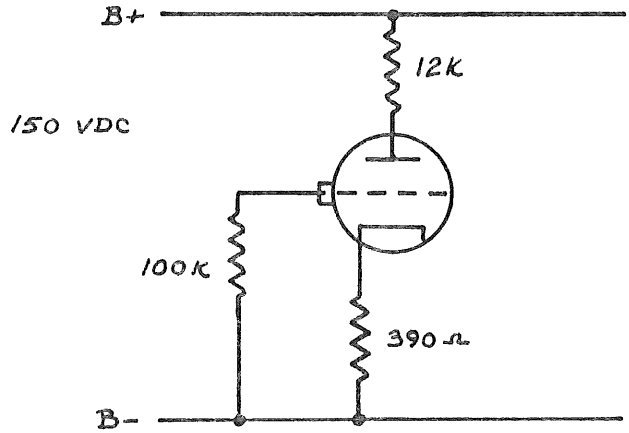
154-0324-00

EC 1000
AGING RACK

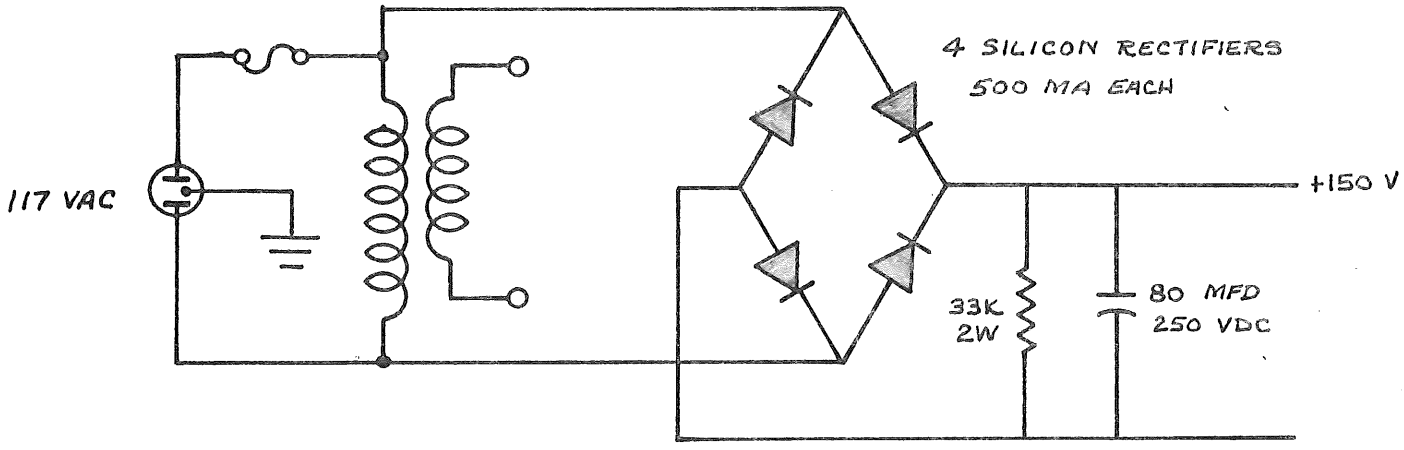
Rk	390Ω
Rl	12K
Ep	70V
Ip	5 ma
Bias	1.75V
Fil	6.3V 180 ma







35 TUBES



1. ITEM NAME AND DESCRIPTION

8254/EC 1000 ELECTRON TUBE, subminiature, frame grid triode, resonant frequency of 400 mHz. Manufactures heater rating, 6.3 volts, 180 milliamps.

2. TEKTRONIX SELECTED PART NUMBERS

157-0100-00 is selected from this part.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 35 socket aging racks with never less than 30 sockets loaded while aging to avoid excessive voltage to tube heaters.

Heater volts with 35 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ Supply. A bridge rectifier, 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the line power.

Plate supply voltage, 150 volts $\pm$ 5%.

Plate-circuit resistor, 12 K ohm $\pm$ 10%.

Grid-circuit resistor, 100 K ohm $\pm$ 10%.

Cathode-circuit resistor, 390 ohm $\pm$ 10%.

Cathode current, 5 milliamps.

Heater and B+ supplies isolated from chassis.

3.2 AGING-CYCLE PROCEDURE

The 35 socket aging rack is placed in a portable AGER-CYCLE unit which is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power on time, not less than 20 hours and not more than 86 hours.

4. SELECTION

For selection specifications on above selected part, see specification for that part number.

SPECIFICATION NO. 154-0367-00
May 4, 1978
LeMoyne Warner

1. ITEM NAME AND DESCRIPTION

8136 ELECTRON TUBE, 7 pin miniature, sharp. Cutoff pentode manufactures heater rating 6.3 volts, 300 milliamperes. This tube was developed by GE with a passive cathode to replace the 6 DK 6 which had interface problems.

2. TEKTRONIX SELECTED PART NUMBERS

157-0082-00 and 157-0097-00 which is not obsolete.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 50 socket aging racks with never less than 40 tubes inserted to avoid excessive voltage damage to tubes.

Heater voltage with 50 sockets loaded shall not exceed 6.3 volts AC nor be less than 6.0 volts AC. A 25 watt wire wound resistor may be used in the primary transformer circuit to obtain the specified heater output voltage.

B+ supply consists of a bridge rectifier and a 10 to 15 ohm resistor plus a capacitor of not less than 80 mfds. to rectify and filter the 117 volt, 60 Hz line power. Plate voltage shall be +130 to +150 volts. Both B+ and heater power supplies floating with respect to the chassis. Plate-circuit resistor, 1 K ohm $\pm$ 10%. Cathode-circuit resistor, 270 ohm $\pm$ 10%. Grid-circuit resistor, 100 k ohm $\pm$ 10%.

3.2 AGING-CYCLE PROCEDURE

The 50 socket aging racks are placed in a portable AGER-CYCLE unit which is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is cut off for 5 minutes of each hour.

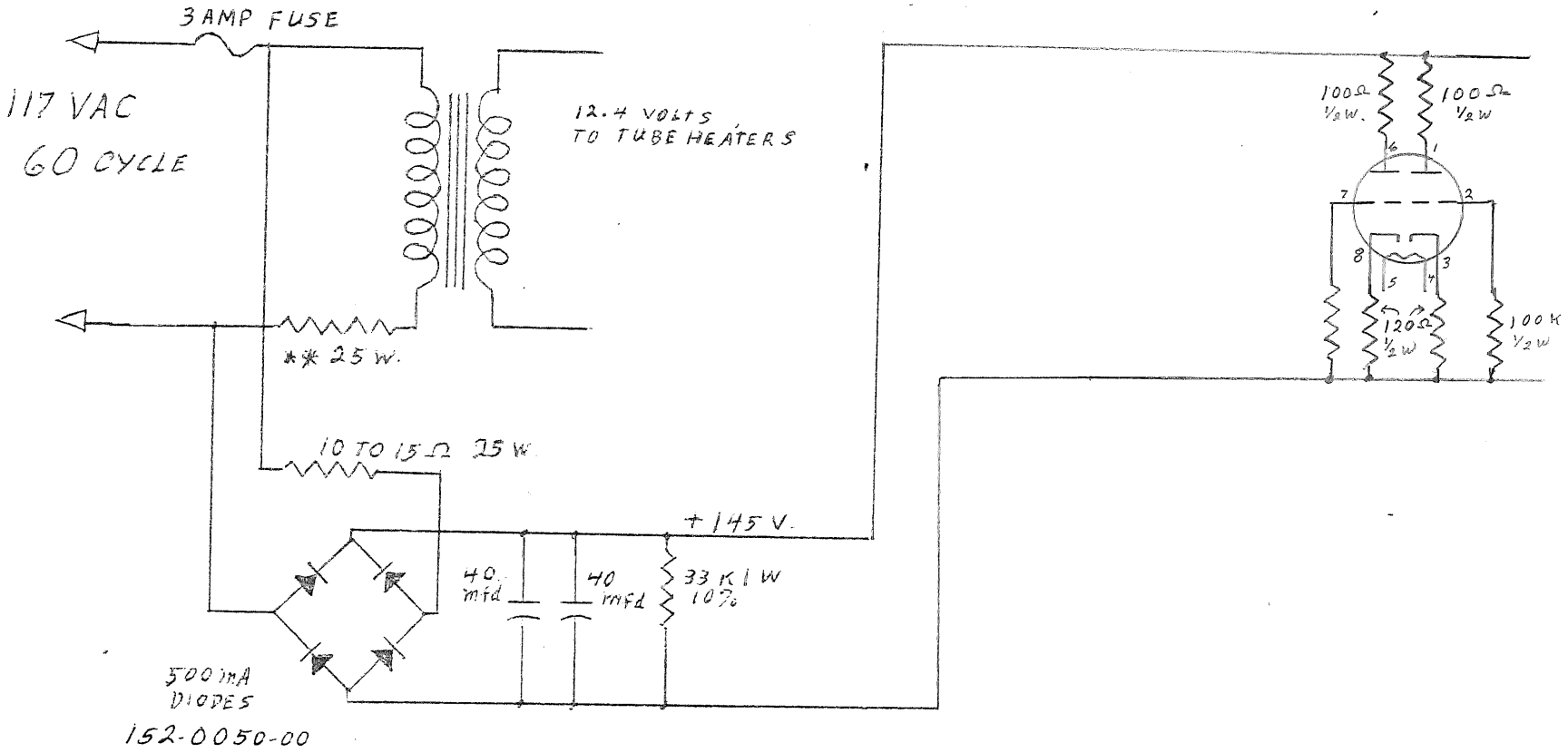
Power is applied not less than 25 hours and not over 88 hours.

4. SELECTION

See specification for selected part number.

7308 AGING RACK

154-0371-00



4-21-77

L W.

1. ITEM NAME AND DESCRIPTION

7308 ELECTRON TUBE, 9 pin miniature, rigidly constructed twin triode. Manufactures heater rating, 6.3 volts, 335 milliamps.

2. TEKTRONIX SELECTED PART NUMBERS

157-0102-00 is selected from this part.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded while aging to avoid excessive voltage on tube heaters.

Heater volts with 40 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the 117 volt, 60 Hz line power.

Plate voltage, + 135 volts $\pm$ 5%.

Plate-circuit resistor, 100 Ω $\pm$ 10%.

Grid-circuit resistor, 100 K ohm $\pm$ 10%.

Cathode-circuit resistor, 120 ohm $\pm$ 10%.

Cathode current, 16 milliamps $\pm$ 10% per each cathode.

Heater and B+ supplies are isolated from chassis.

3.2 AGING-CYCLE PROCEDURE

The 40 socket aging rack is placed in a portable AGER-CYCLE unit which is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power on time, not less than 200 hours and not over 266 hours.

4. SELECTION

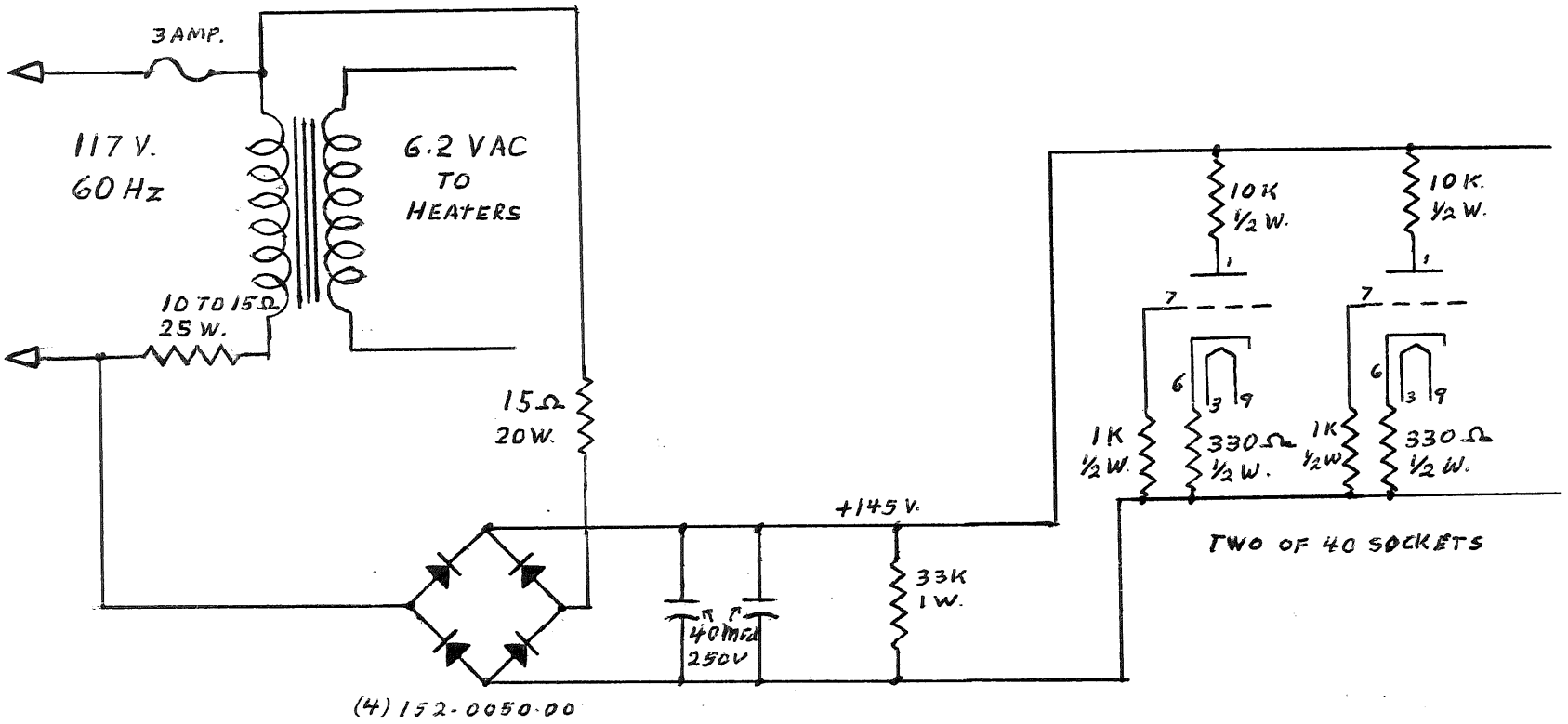
For selection specifications on above selected part, see specification for that part number.

LW/ec

5842 AGING RACK

4-21-77
L & W.

154-0408-00



1. ITEM NAME AND DESCRIPTION

5842 ELECTRON TUBE, 9 pin miniature triode, constructed for low noise and high transconductance and gain. Manufactures heater rating 6.3 volts, 300 milliamps. 5842 replaces 417A.

2. TEKTRONIX SELECTED PART NUMBERS

157-0098-00 is selected from this part.

3. AGING

3.1 AGING CONDITIONS

Tubes are aged on 40 socket aging racks with never less than 32 sockets loaded while aging to avoid excessive voltage to tubes.

Heater volts with 40 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfds are used to rectify and filter the 117 volt, 60 Hz line power.

Plate voltage, +140 volts $\pm$ 5%.

Plate-circuit resistor, 10 K ohms $\pm$ 10%.

Grid-circuit resistor, 1 K ohms $\pm$ 10%.

Cathode-circuit resistor,330 ohms $\pm$ 10%.

Cathode current, 5 milliamps $\pm$ 10%.

Heater and B+ supplies are isolated from chassis.

3.2 AGING-CYCLE PROCEDURE

The 40 socket aging rack is placed in a portable AGER-CYCLE unit which is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power on time, not less than 50 hours and not more than 116 hours.

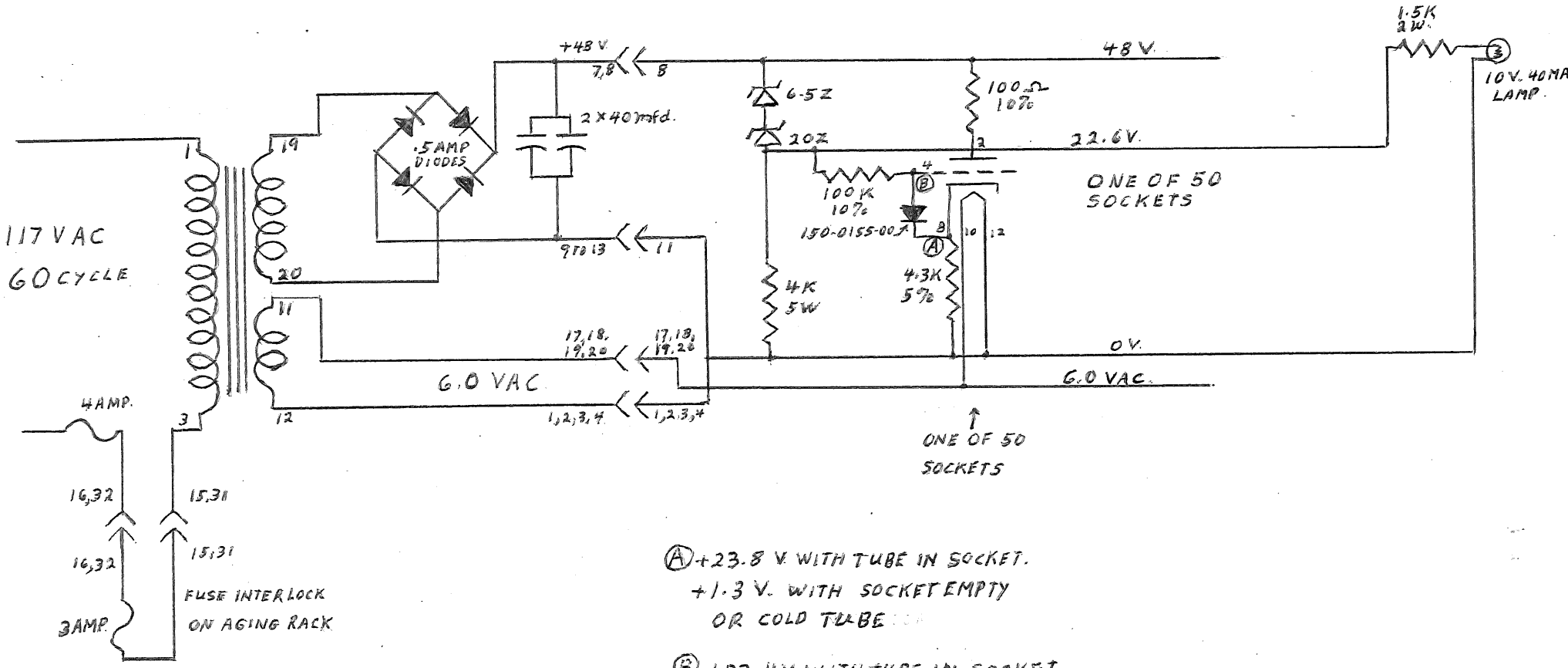
4. SELECTION

For selection specifications on above selected part, see specification for that part number.

LW/ec

TYPICAL 8056 POWER SUPPLY AND AGING RACK

154-0417-00



Ⓐ +23.8 V. WITH TUBE IN SOCKET.
+1.3 V. WITH SOCKET EMPTY OR COLD TUBE

Ⓑ +22.4V. WITH TUBE IN SOCKET
+0.8V. WITH NO TUBE IN SOCKET.

11-22-76
L.W.W.

1 ITEM NAME AND DESCRIPTION. 8056 NUVISTOR TYPE ELECTRON TUBE, medium-mu triode. Manufactures heater rating 6.3 volts, 135 MA. Maximum plate voltage, 50 volts.

2 TEKTRONIX SELECTED PART NUMBER. 157-0099-00.

3 AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 50 socket racks with never less than 40 sockets loaded.

Heater voltage with 50 sockets loaded shall not exceed 6.2 volts nor be less than 5.8 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater voltage.

B-Plus Supply, 48 volts.

Plate supply. By using a 26.5 Zener voltage divider and a 4.3 K Ω in cathode circuit the plates are at +25 volts above the cathodes. (See schematic).

Plate circiut resistor, 100 Ω each tube.

Grid circuit resistor, 100 K Ω each tube. A diode is used between the grid and cathode terminals on each tube socket. These diodes conduct when no tubes are in the sockets. This then keeps the grid terminals from going excessively positive with respect to the cathode terminals. An abnormally high positive voltage on the grid of a cold tube can destroy the tubes grid.

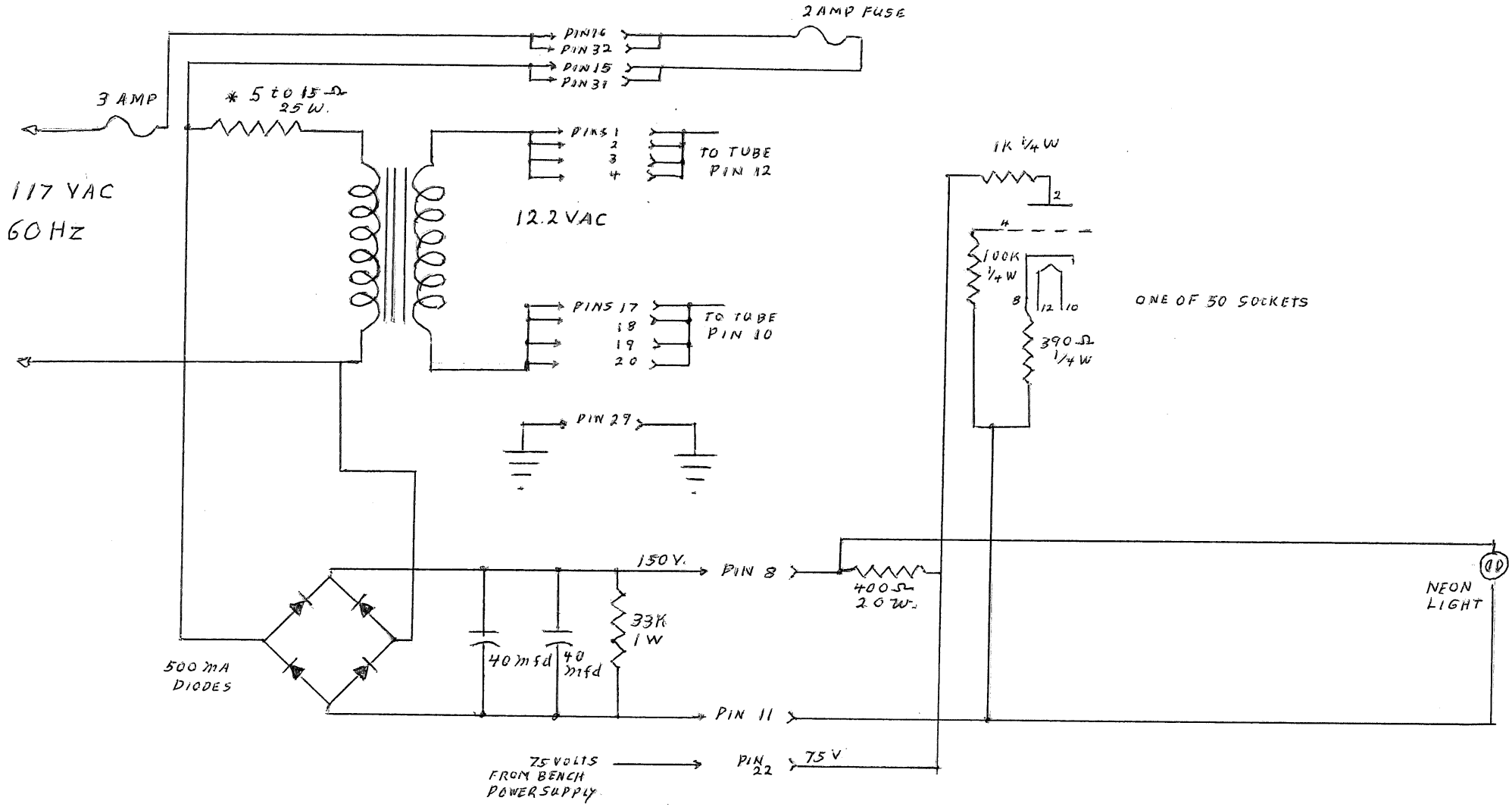
Cathode circuit resistor, 4.3 K Ω 5% each tube. This makes the grid about 1.4 volts negative when the tube is conducting.

The indicator bulb is a 10 volt, 40 MA lamp connected to the 22.6 volt circuit thru a 1.5 K, 2 watt dropping resistor.

4 SELECTION. For selection instructions on 157-0099-00, see specification for that part number.

LW/ec

8393 AGING RACK



* VALUE SELECTED FOR 12.2 VOLTS TRANSFORMER OUTPUT

LWW 11-4-76

11 -76

1 ITEM NAME AND DESCRIPTION. 8393 ELECTRON TUBE, Nuvistor type, medium triode. Manufactures heater rating; 13.5± 1.4 volts, 60 MA.

2 TEKTRONIX SELECTED PART NUMBERS. 157-0107-00, 157-0108-00, 157-0123-00, 157-0126-00 and 157-0127-00.

3 AGING.

3.1 AGING CONDITIONS.

Tubes are aged on 50 socket plug-in type aging racks with never less than 35 sockets loaded. Only the nuvistor sockets with associated resistors are on the portable part of aging rack. Power supply for each rack is mounted on aging unit structure.

Heater voltage with 50 sockets loaded shall not exceed 12.4 volts nor be less than 12.0 volts. A wire wound resistor may be used in the transformer Primary Circuit, located on the Power Supply, to obtain the specified heater voltage.

B-Plus Supply. A bridge rectifier, 400 Ω 20 watt wire wound resistor and a capacitor of not less than 80 mfd are used to provide filtered D.C. power to the tubes.

A 32 pin Amphenol connector is used to couple the power supply to aging rack as follows:

Pin 1, 2, 3, 4	To tube heaters.
Pin 17, 18, 19, 20	To return from tube heaters.
Pin 8	To tube plates.
Pin 11	To tube cathodes and grids.
Pin 16, 32	To fuse interlock.
Pin 15, 31	From fuse interlock.
Pin 22	Used only on work bench power supply.

Plate supply voltage, 154 to 158 volts when aging. 75 volts at workbench. (See note 1, below)

Both B-Plus and heater supply are floating from chassis.

Plate-circuit resistor, 400 Ω 20 watt in series with all tubes. 1 K Ω ± 10% on each tube.

Plate voltage, approx. 80 volts.

Grid circuit resistor, 100 K Ω ± 10% each tube.

Cathode circuit resistor, 390 Ω ± 10% each tube.

3.1 AGING CONDITIONS (con't)

These tubes are not cycled but aged continuously for not less than 96 hours but not over 126 hours.

4 SELECTION. For selection instructions on the above selected part numbers, see specification for each number.

NOTE 1. The power supply used at the work bench supplies 75 volts directly to the plate resistors on aging rack instead of 154 to 158 volts thru a 400 Ω resistor. This prevents damage to the nuvistors, remaining on the rack, from excessively high plate voltage, which would occur as the load is reduced by the removal of nuvistors from the aging rack.

It is important that each rack is fully loaded with 50 nuvistors while aging since less than 50 would decrease the load on power supply and again result in excessively high plate voltage to nuvistors.

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