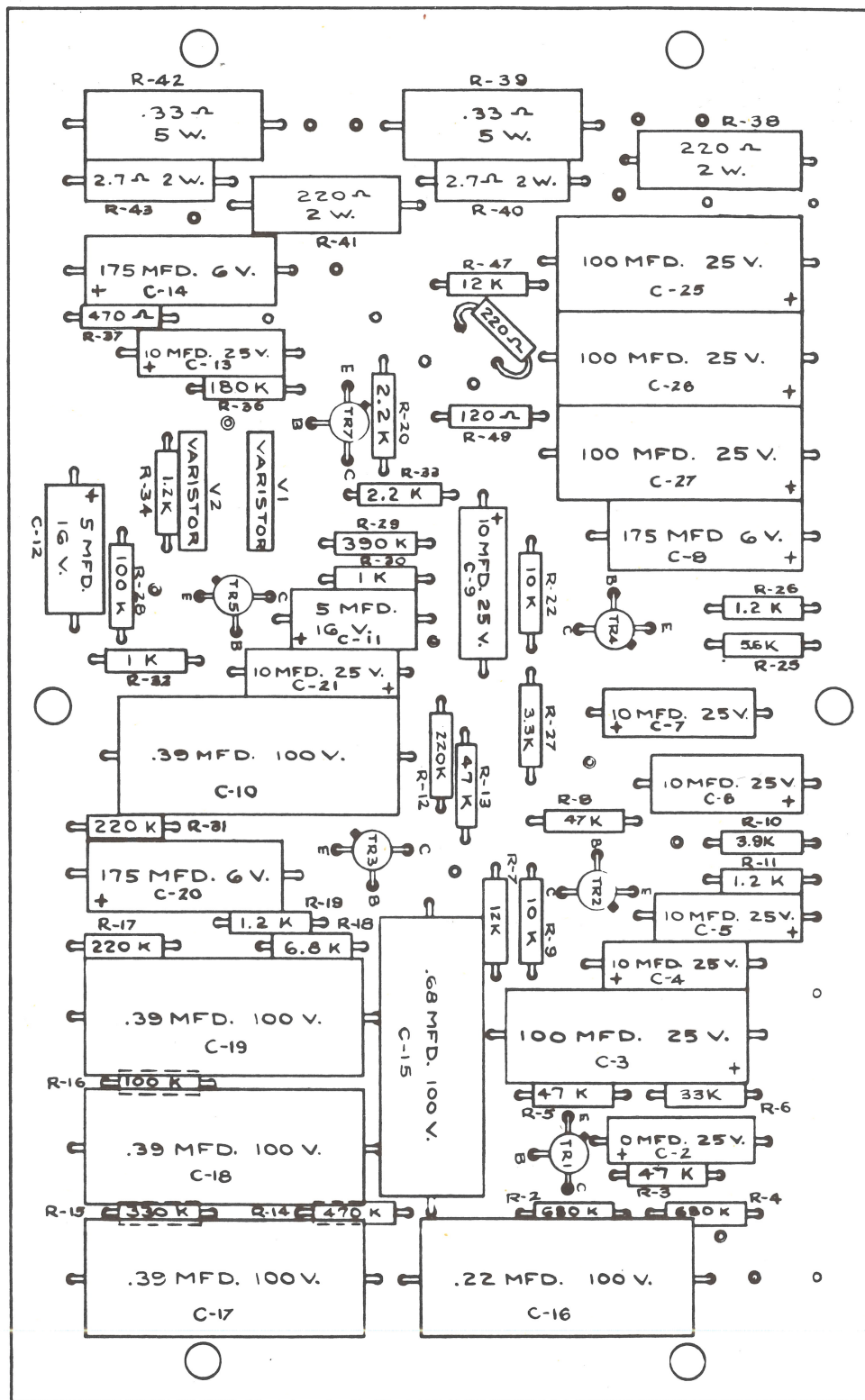




R AND C-COMPONENTS NOT SHOWN ON PRINTED CIRCUIT BOARD WILL BE FOUND LOCATED ON METAL CHASSIS.

THE WURLITZER COMPANY DE KALB DIVISION - DE KALB, ILLINOIS

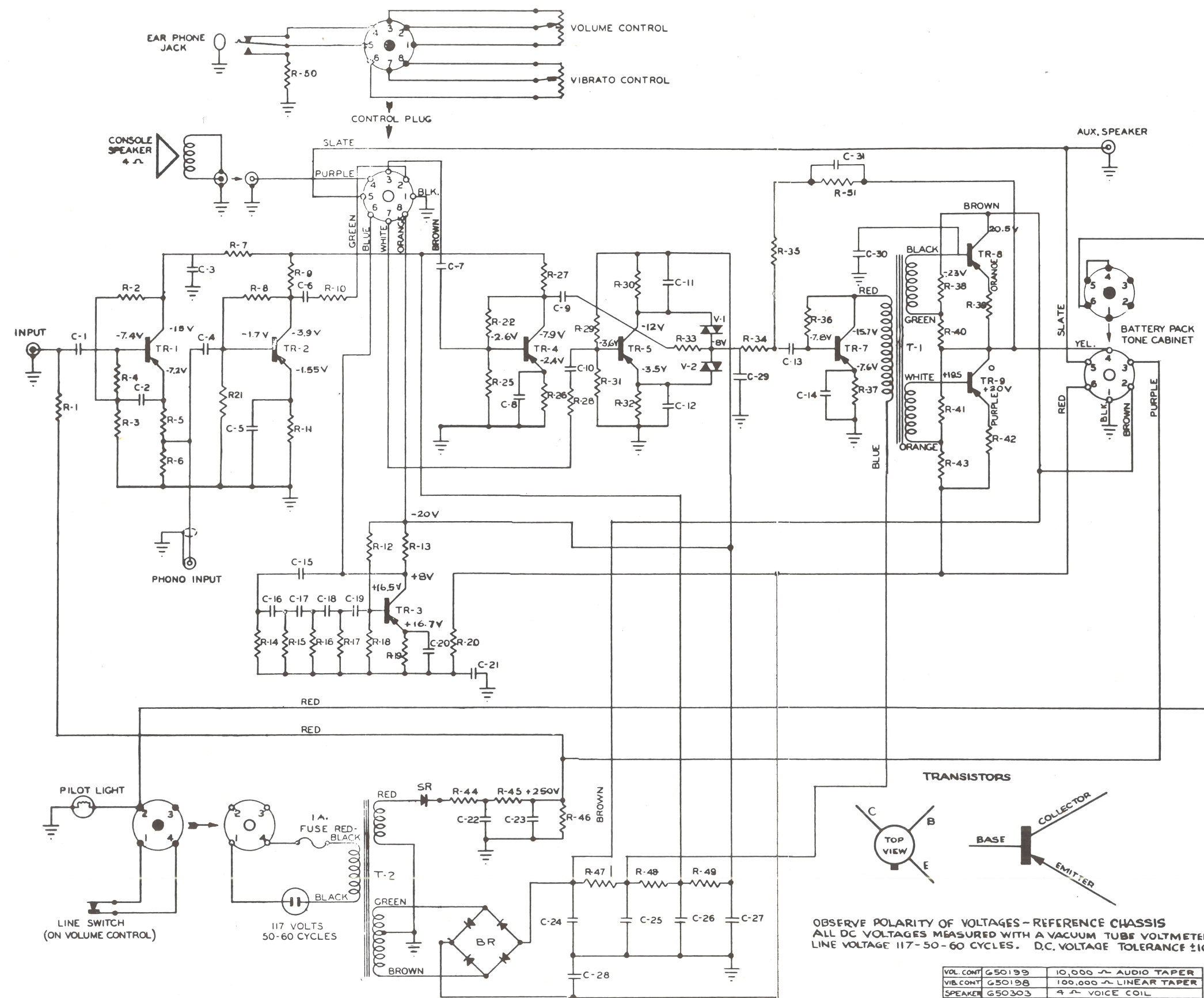
MODEL 140 ELECTRONIC PIANO

TITLE AMPLIFIER PRINTED BOARD

SCHEMATIC PART No. 650443

STARTING SERIAL No. 25001

ISSUE 2, DATE 7/10/62



OBSERVE POLARITY OF VOLTAGES - REFERENCE CHASSIS
ALL DC VOLTAGES MEASURED WITH A VACUUM TUBE VOLTMETER.
LINE VOLTAGE 117-50-60 CYCLES. D.C. VOLTAGE TOLERANCE $\pm 10\%$.

ITEM	PART NO.	VALUE	REMARKS
TR-1	650199	10,000 Ω AUDIO TAPER	
TR-2	650198	100,000 Ω LINEAR TAPER	
TR-3	650303	4 Ω VOICE COIL	
TR-4	650496		

ITEM	PART NO.	VALUE	REMARKS
R-1	74393-32	10 MEG	$\pm 10\%$ 1/2 W
R-2	72260-32	680 K	$\pm 10\%$ 1/2 W
R-3	72260-32	680 K	$\pm 10\%$ 1/2 W
R-4	72232-32	47 K	$\pm 10\%$ 1/2 W
R-5	72232-32	47 K	$\pm 10\%$ 1/2 W
R-6	72228-32	33 K	$\pm 10\%$ 1/2 W
R-7	72218-32	12 K	$\pm 10\%$ 1/2 W
R-8	72252-32	47 K	$\pm 10\%$ 1/2 W
R-9	72216-32	10 K	$\pm 10\%$ 1/2 W
R-10	72206-32	5.9 K	$\pm 10\%$ 1/2 W
R-11	72194-32	1.2 K	$\pm 10\%$ 1/2 W
R-12	72248-32	220 K	$\pm 10\%$ 1/2 W
R-13	72232-32	47 K	$\pm 10\%$ 1/2 W
R-14	72256-32	470 K	$\pm 10\%$ 1/2 W
R-15	72252-32	330 K	$\pm 10\%$ 1/2 W
R-16	72240-32	100 K	$\pm 10\%$ 1/2 W
R-17	72248-32	220 K	$\pm 10\%$ 1/2 W
R-18	72212-32	6.8 K	$\pm 10\%$ 1/2 W
R-19	72194-32	1.2 K	$\pm 10\%$ 1/2 W
R-20	72200-32	2.2 K	$\pm 10\%$ 1/2 W
R-21	72232-32	47 K	$\pm 10\%$ 1/2 W
R-22	72216-32	10 K	$\pm 10\%$ 1/2 W
R-23	72210-32	5.6 K	$\pm 10\%$ 1/2 W
R-24	72194-32	1.2 K	$\pm 10\%$ 1/2 W
R-25	72204-32	3.3 K	$\pm 10\%$ 1/2 W
R-26	72240-32	100 K	$\pm 10\%$ 1/2 W
R-27	72254-32	390 K	$\pm 10\%$ 1/2 W
R-28	72192-32	1 K	$\pm 10\%$ 1/2 W
R-29	72248-32	220 K	$\pm 10\%$ 1/2 W
R-30	72192-32	1 K	$\pm 10\%$ 1/2 W
R-31	72192-32	1 K	$\pm 10\%$ 1/2 W
R-32	72200-32	2.2 K	$\pm 10\%$ 1/2 W
R-33	72184-32	1.2 K	$\pm 10\%$ 1/2 W
R-34	72236-32	68 K	$\pm 10\%$ 1/2 W
R-35	72246-32	180 K	$\pm 10\%$ 1/2 W
R-36	72184-32	470 Ω	$\pm 10\%$ 1/2 W
R-37	74532-32	220 Ω	$\pm 10\%$ 2 W
R-38	74449-2	.33 Ω	$\pm 10\%$ 5 W
R-39	74486-32	2.7 Ω	$\pm 10\%$ 2 W
R-40	74532-32	220 Ω	$\pm 10\%$ 2 W
R-41	74449-2	.33 Ω	$\pm 10\%$ 5 W
R-42	74486-32	2.7 Ω	$\pm 10\%$ 2 W
R-43	72264-32	1 MEG	$\pm 10\%$ 1/2 W
R-44	72272-32	2.2 MEG	$\pm 10\%$ 1/2 W
R-45	74393-32	10 MEG	$\pm 10\%$ 1/2 W
R-46	72176-32	220 Ω	$\pm 10\%$ 1/2 W
R-47	72170-32	120 Ω	$\pm 10\%$ 1/2 W
R-48	74451-2	4 Ω	$\pm 10\%$ 5 W
R-49	72228-32	33 K	$\pm 10\%$ 1/2 W
C-1	71553-11	.022 MFD	100V
C-2	71525-11	.0047 MFD	100V
C-3	71541-14	.1 MFD	400 V
C-4	74425-136	10 MFD	25 V
C-5	74432-136	100 MFD	25 V
C-6	74425-136	10 MFD	25 V
C-7	74425-136	10 MFD	25 V
C-8	74425-136	10 MFD	25 V
C-9	74425-136	10 MFD	25 V
C-10	71548-11	.39 MFD	100V
C-11	74422-134	5 MFD	16 V
C-12	74422-134	5 MFD	16 V
C-13	74425-136	10 MFD	25 V
C-14	74434-138	175 MFD	6 V
C-15	71550-11	.68 MFD	100 V
C-16	71548-11	.22 MFD	100 V
C-17	71548-11	.39 MFD	100 V
C-18	71548-11	.39 MFD	100 V
C-19	71548-11	.39 MFD	100 V
C-20	74434-138	175 MFD	6 V
C-21	74425-136	10 MFD	25 V
C-22	71545-14	.22 MFD	400 V
C-23	71545-14	.22 MFD	400 V
C-24	74444	2000 MFD	25 V INSULATED
C-25	74432-136	100 MFD	25 V
C-26	74432-136	100 MFD	25 V
C-27	74432-136	100 MFD	25 V
C-28	74445	2000 MFD	25 V
C-29	71528-11	.0022 MFD	100V
SR	71588-6	SILICON RECTIFIER	
BR	650494	SELENIUM RECTIFIER	
LAMP	10510	28V .17A	
V-1	650444	VARIATOR 063L11	
V-2	650444	VARIATOR 063L11	
TR-1	650196	GT-2477 TRANSISTOR	
TR-2	650425	TA-2047 TRANSISTOR	
FUSE	71591-12	1 AMP SLO-BLOW	
T-1	650442	DRIVER TRANSFORMER	
T-2	650496	OPT. POWER TRANSFMR.	

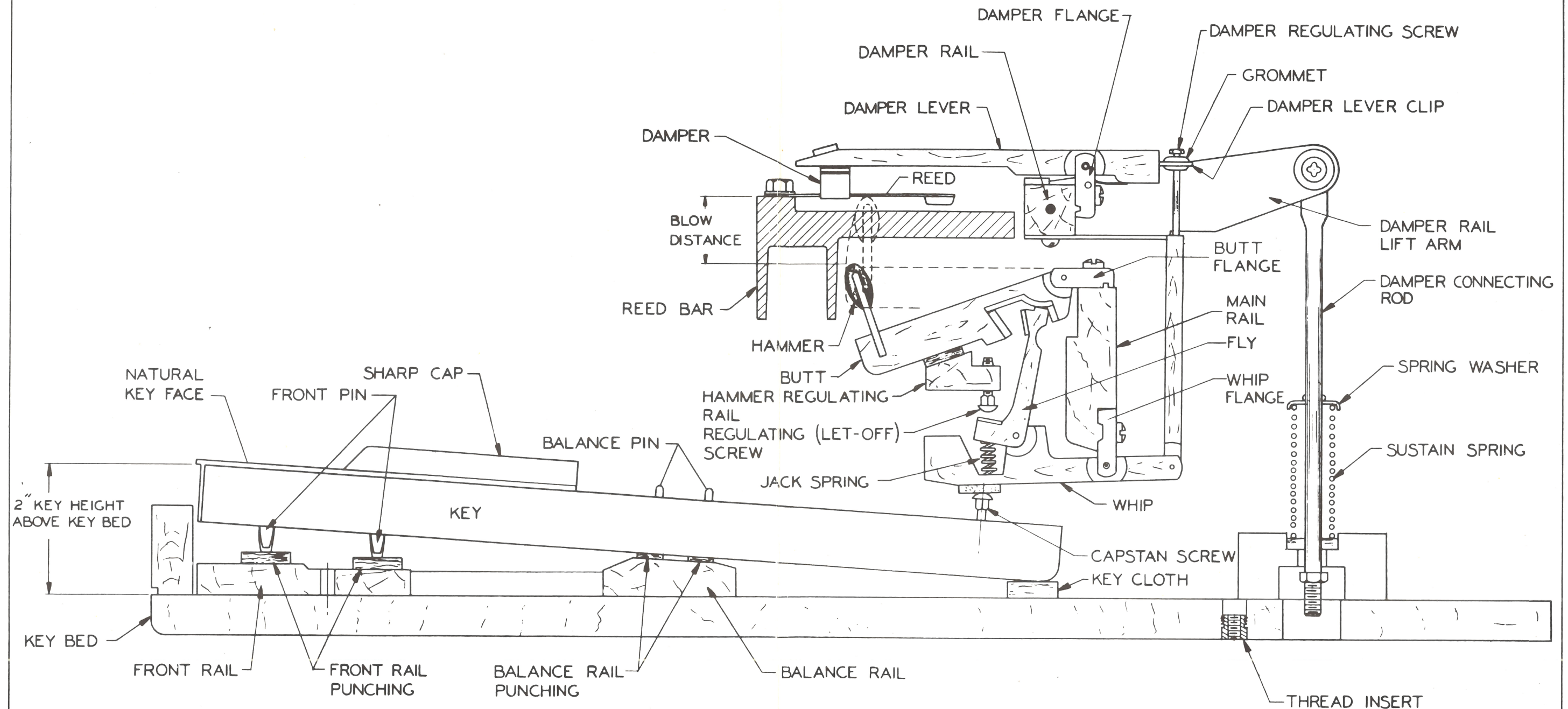
THE WURLITZER COMPANY DE KALB DIVISION - DE KALB, ILLINOIS

MODEL 140 ELECTRONIC PIANO

TITLE AMPLIFIER SCHEMATIC PART No. 650447

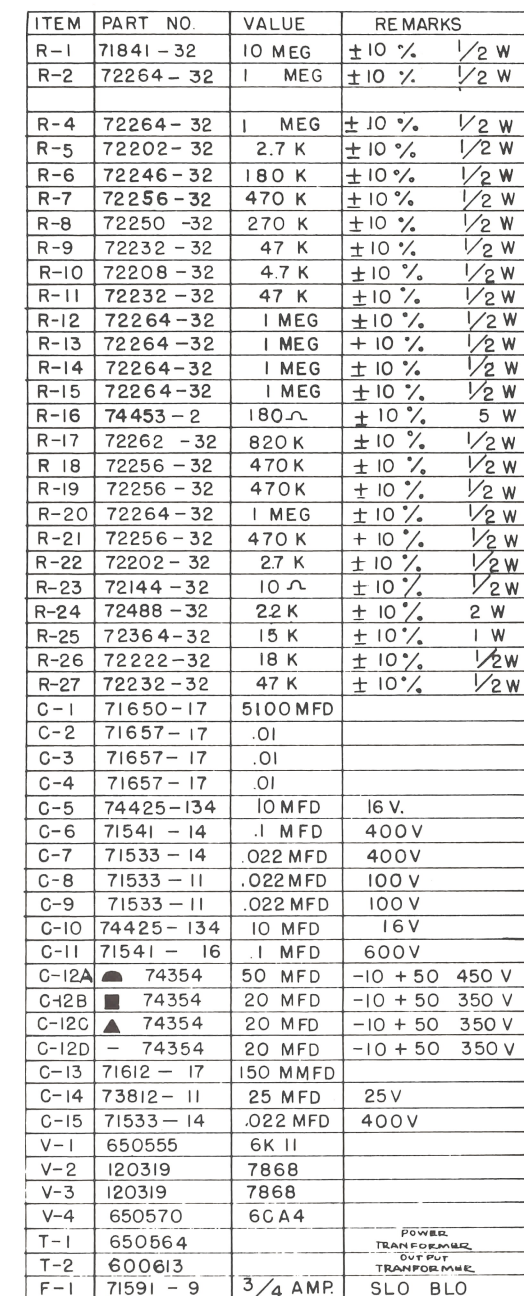
STARTING SERIAL No. 25001 ISSUE 2, DATE 7/10/62

WURLITZER ELECTRONIC PIANO MODEL 140



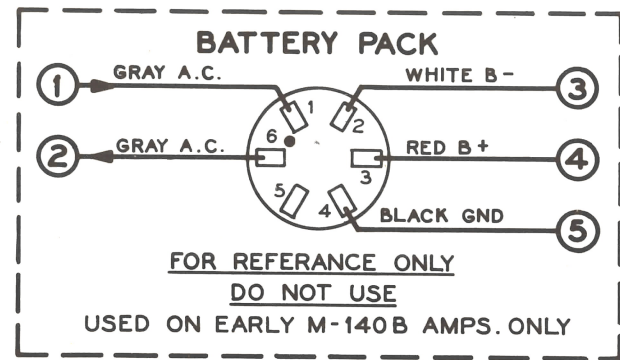
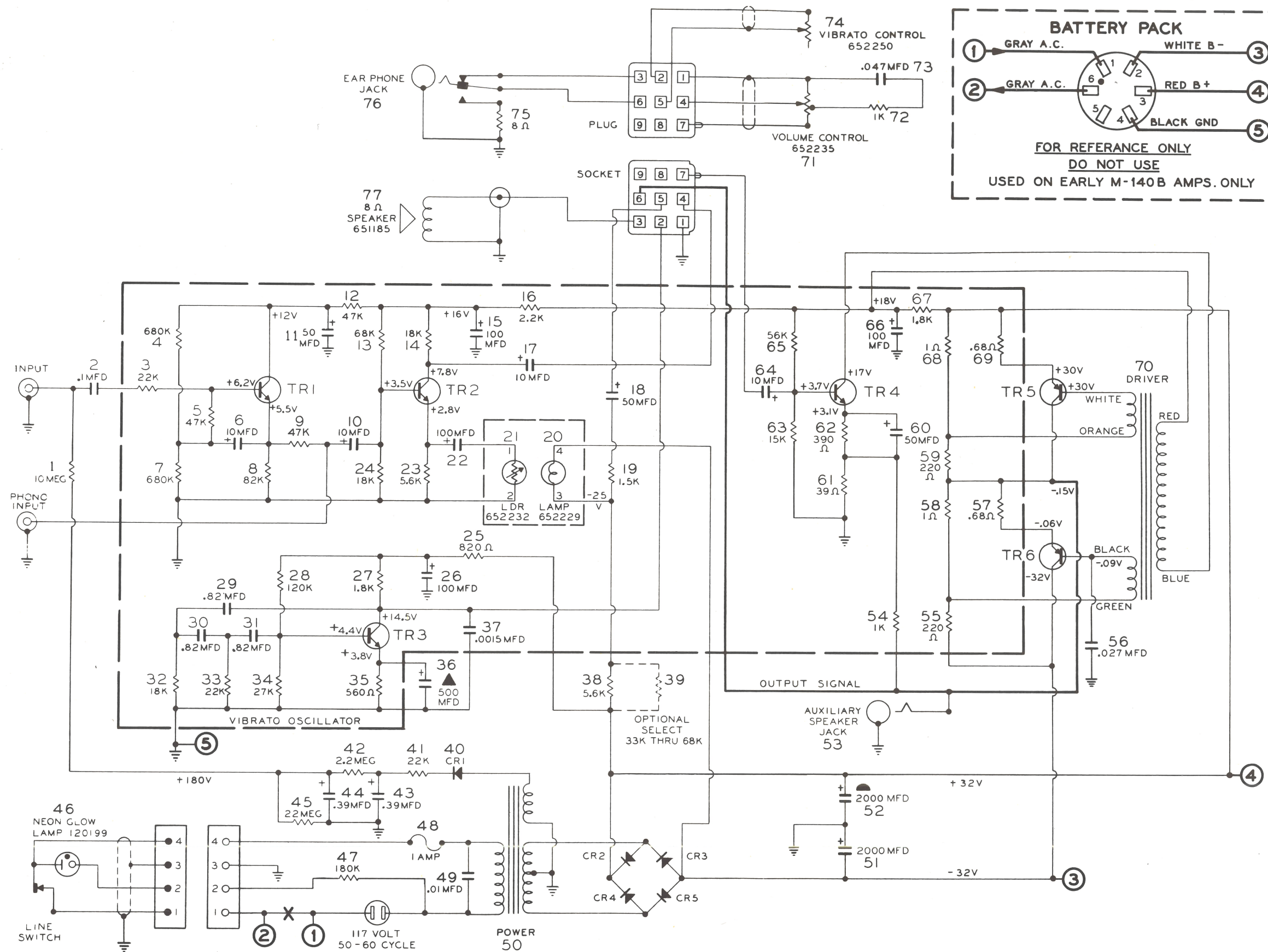
THE WURLITZER COMPANY DE KALB DIVISION - DE KALB, ILLINOIS
MODEL 140 ELECTRONIC PIANO

TITLE PIANO ACTION SCHEMATIC PART No. 650552
 STARTING SERIAL No. 25001 ISSUE 1 DATE 4/1/62



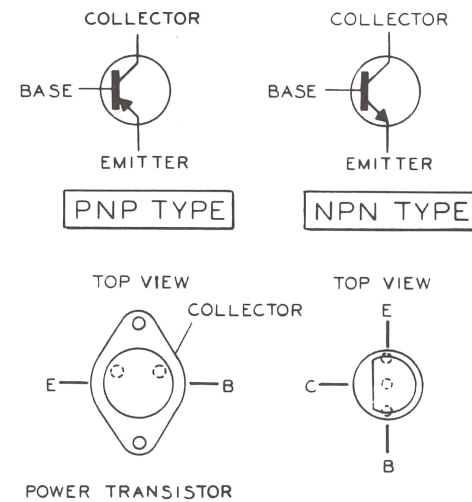
DC. VOLTAGES MEASURED WITH V.T.V.M.
AT 117V. LINE
TREMULANT CONTROL C.C.W. VOLUME C.W.
4- RESISTIVE LOAD AT SPKR. JACK.

TITLE AMPLIFIER **SCHEMATIC PART No.** 650565
STARTING SERIAL No. 145-30031 720-40001 **ISSUE** 2, **DATE** 7/10/62



FOR CONNECTIONS OF
NUMBERED POINTS
SEE SCHEMATIC.

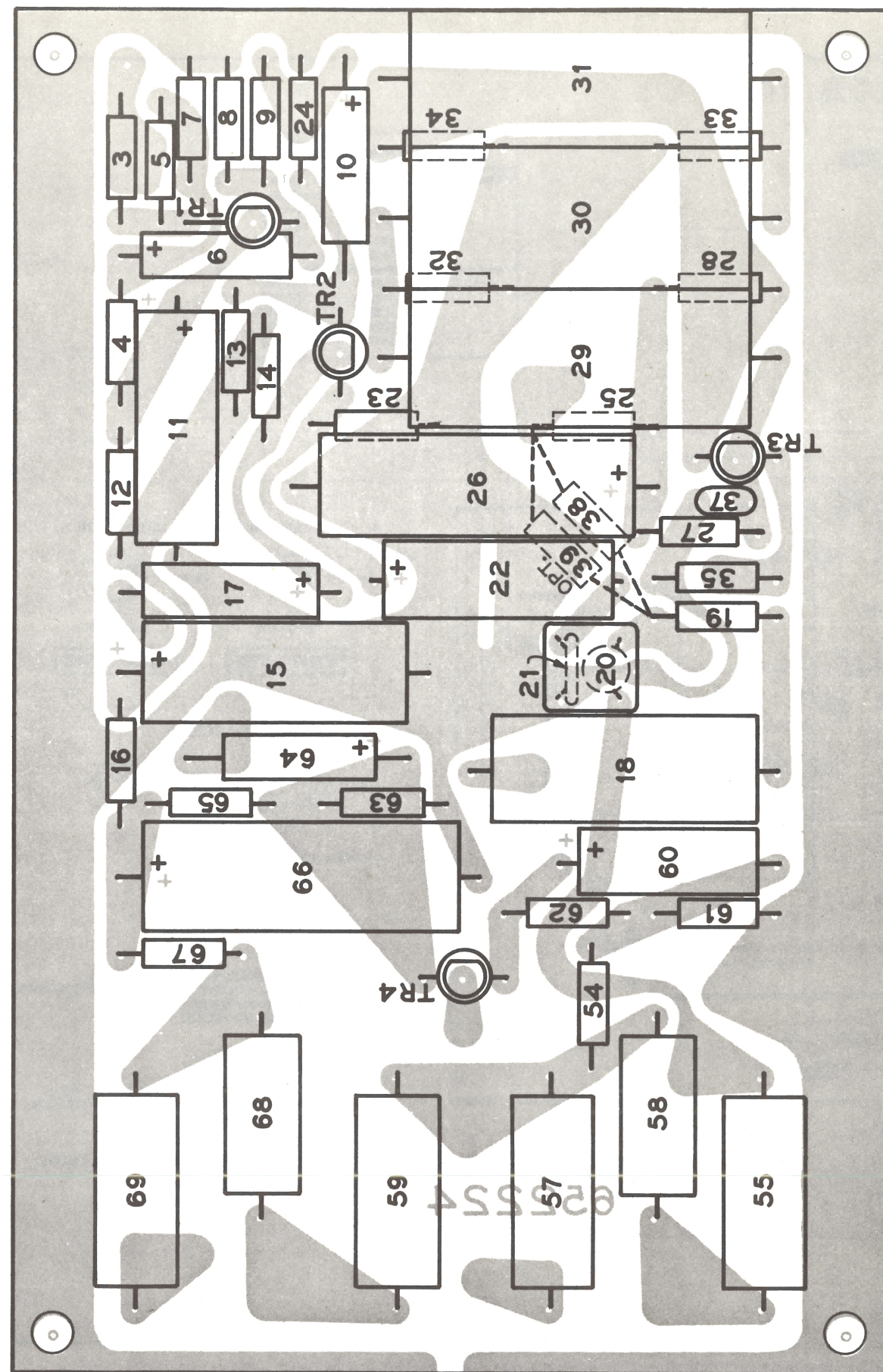
PART	NUMBER	WURLITZER PART NUMBER
TRANSISTOR	TR1	651891
	TR2	651891
	TR3	652230
	TR4	651891
	TR5	650970
	TR6	OR 651202
DIODE	CR1	651030
	CR2	651038
	CR3	651038
	CR4	651038
	CR5	651038



NOTE
ALL D.C. VOLTAGES MEASURED WITH A
VACUUM TUBE VOLTMETER TO CHASSIS GROUND.
TOLERANCE $\pm 10\%$ EXCEPT AS NOTED.
LINE VOLTAGE 117 VOLTS.

ALL ELECTRONIC COMPONENTS SUCH AS
RESISTORS, CAPACITORS ETC. ARE IDENTIFIED
WITH A NUMBER.
EXAMPLE -- THE 41 IS THE
IDENTIFICATION NUMBER.

MODEL - 140-B ELECTRONIC PIANO PART NO - 652227-S-3-E-9
TITLE - CONSOLE SCHEMATIC
STARTING SERIAL NO. - 27501 DATE - 3/1/74
THE WURLITZER COMPANY - DEKALB DIVISION - DEKALB, ILL.



MODEL - 140-B ELECTRONIC PIANO
TITLE - P.C. BOARD AMPLIFIER

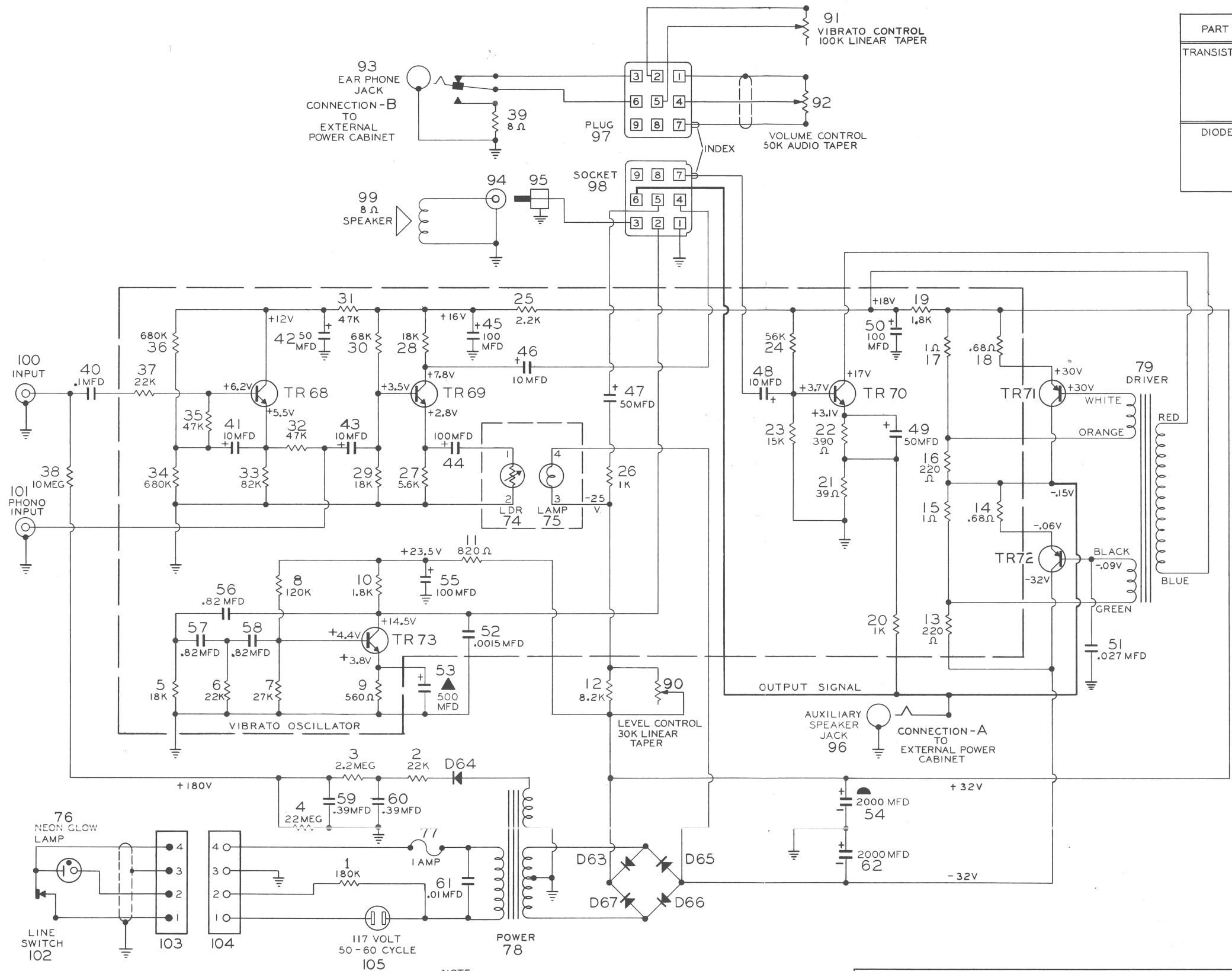
PART NO.- 652233-S-1-E-5

STARTING SERIAL NO.- 27501

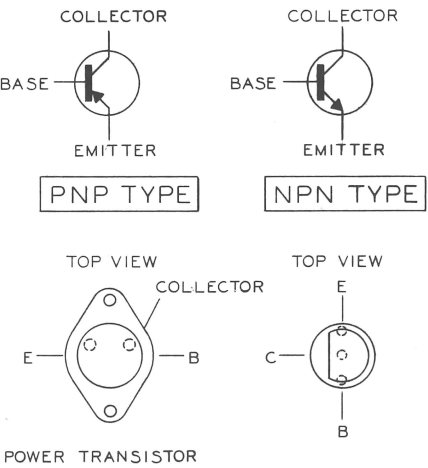
DATE- 3/1/74

THE WURLITZER COMPANY - DEKALB DIVISION - DEKALB, ILL.

SCHEMATIC - ELECTRONIC PIANO - MODEL 140B



PART	NUMBER	WURLITZER PART NUMBER
TRANSISTOR	TR68	11-0422
	TR69	11-0422
	TR70	11-0422
	TR71	11-0399
	TR72	11-0399
	TR73	11-0423
DIODE	D63	11-0429
	D64	11-0430
	D65	11-0429
	D66	11-0429
	D67	11-0429



NOTE
ALL D.C. VOLTAGES MEASURED WITH A
VACUUM TUBE VOLTMETER TO CHASSIS GROUND.
TOLERANCE $\pm 10\%$ EXCEPT AS NOTED.
LINE VOLTAGE 117 VOLTS.

ALL ELECTRONIC COMPONENTS SUCH AS
RESISTORS, CAPACITORS ETC. ARE IDENTIFIED
WITH A NUMBER.
EXAMPLE -- $\frac{41}{22K}$ THE 41 IS THE
IDENTIFICATION NUMBER.

THE WURLITZER COMPANY - DEKALB DIVISION - DEKALB, ILLINOIS
MODEL - 140B ELECTRONIC PIANO.
TITLE - SCHEMATIC - ELECTRONIC PIANO - PART NO. 11-0547-S-4-E-1
STARTING SERIAL NO. 29091
DATE - JUNE 1, 1966