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Technical Document Distribution

Brand:	Cordovox
Model	CG-1, CG-2, CG-3
Product:	Tube Cordovox Accordion 3-piece
Description:	Service Manual Dated: none

Musicparts Document Number: 39685

TechTips: 0

Pages: 32

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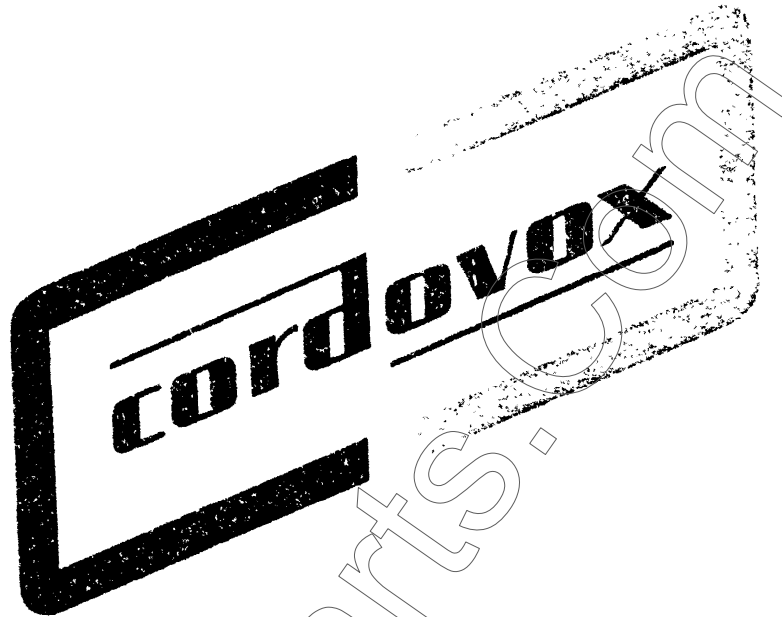
TECHTIPS: Unique to Musicparts documents are **TECHTIPS** located in critical areas on the schematics. They contain useful information about that area of the schematic such as common problems that we have found and recommended changes. Not all documents will have TechTips.

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MODELS CG-1 CG-2 & CG-3
(TUBE TYPE)
Before and After Serial No.2900

SERVICE MANUAL

**CORDVOX CG2 & CG3
BEFORE & AFTER SERIAL #2000**

TABLE OF CONTENTS

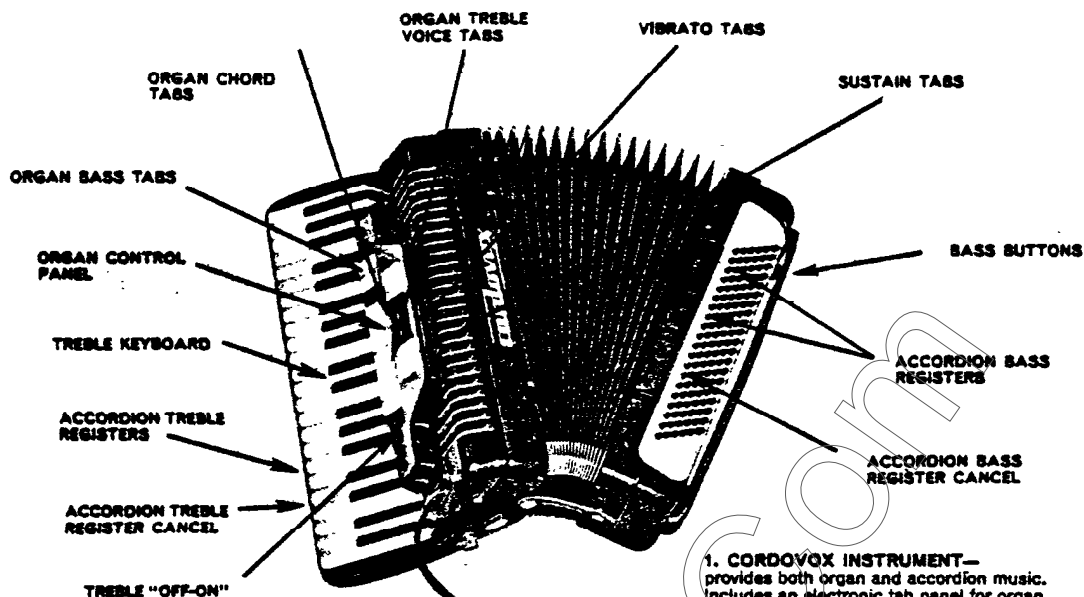
SCHEMATIC

TONAL FLOW & TUBE LOCATION DWG. 1
PLUG & SOCKET LAYOUT DWG. 1A
TONE GENERATORS DWG. 2
KEYSWITCH WIRING DIAGRAM DWGS. 2A-2B
MECHANICAL/FIRING CHORD FUNCTION DWGS. 3-3A
VOICING SCHEMATIC DWGS. 4-4A
AMPLIFIER/POWER SUPPLY DWG. 5A
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TABSWITCH SCHEMATIC DWGS. 7-7A
TREBLE & BASS SUSTAIN CIRCUIT DWG. 8

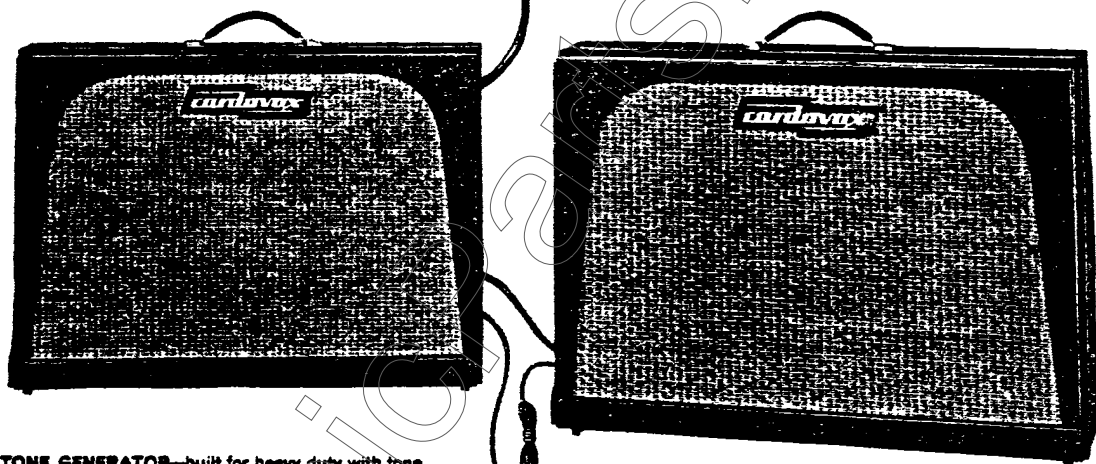
TUBE REPLACEMENT INFORMATION

PARTS LIST

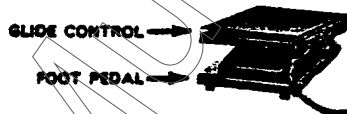
The Cordovox has three major elements plus a foot pedal volume and glide control



1. **CORDOVOX INSTRUMENT**—provides both organ and accordion music. Includes an electronic tab panel for organ sounds plus a complete 120-bass accordion with 41 treble keys, 120 bass buttons, 3 sets of treble reeds and 4 sets of bass reeds, 6 treble registers and 3 bass registers.



3. **TONE GENERATOR**—built for heavy duty with tone capabilities more than sufficient for a fine organ. Has two inputs for additional instruments or speaking microphones. Three control knobs govern input volume, accordion volume, and master volume which raises or lowers sound level of the complete unit.



2. **AMPLIFIER**—equipped for heavy duty. Has two 12-inch matched Jensen speakers, 35 watts output. Also has jack for adding a speaker for more sound dispersion in large auditoriums.

FOOT PEDAL—controls volume and musical expression for organ tones only. Also provides glide control. (Accordion volume still controlled by bellows action.)

ASSEMBLY

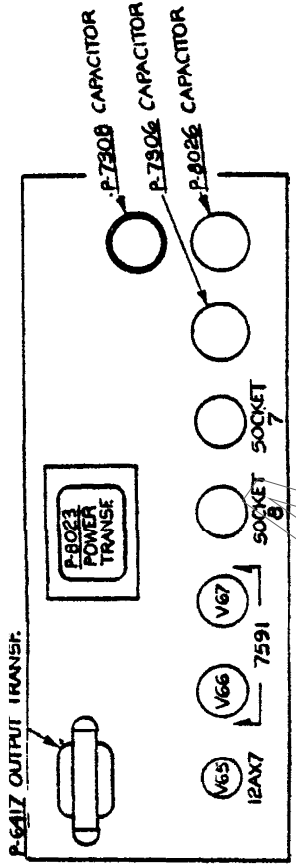
It's easy to prepare the Cordovox for operation. Just follow these simple, routine steps.

1. Remove backs of amplifier and tone generator.
2. Lift foot pedal from amplifier and plug into matching receptacle in generator.
3. Take amplifier cable and plug into matching receptacle in generator, thus connecting amplifier and generator.
4. Lift AC line cord from amplifier (do not plug into outlet until later).
5. Close amplifier back with cable and line cord through hole provided. *But first* fasten straps which were holding the

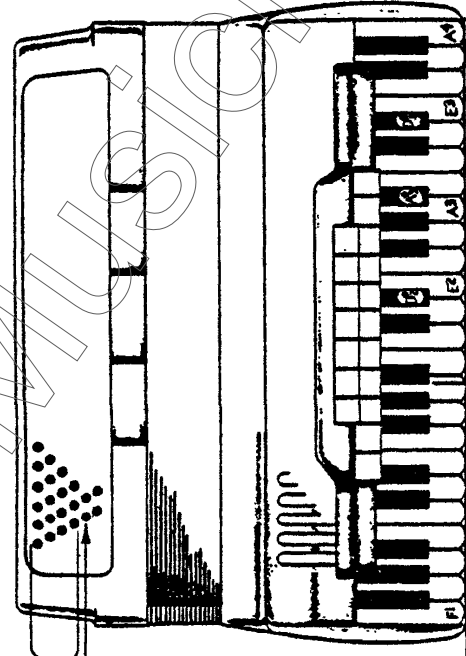
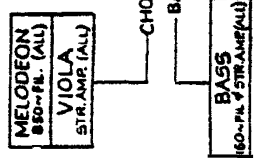
heavy cable. If this is not done, loose straps may buzz against the speakers.

6. Lift out generator cable (it is coiled under the chassis) and plug into the accordion.
7. Close generator back with two cables and foot pedal cord through hole provided.
8. Plug AC line cord from amplifier into wall outlet.
9. On generator control panel (a) Turn on "On-Off" switch; (b) Turn Master Volume control to $\frac{3}{4}$ volume; (c) Turn Accordion Volume control to about $\frac{1}{2}$ full.

Now, prepare yourself for a new experience in musical expression.

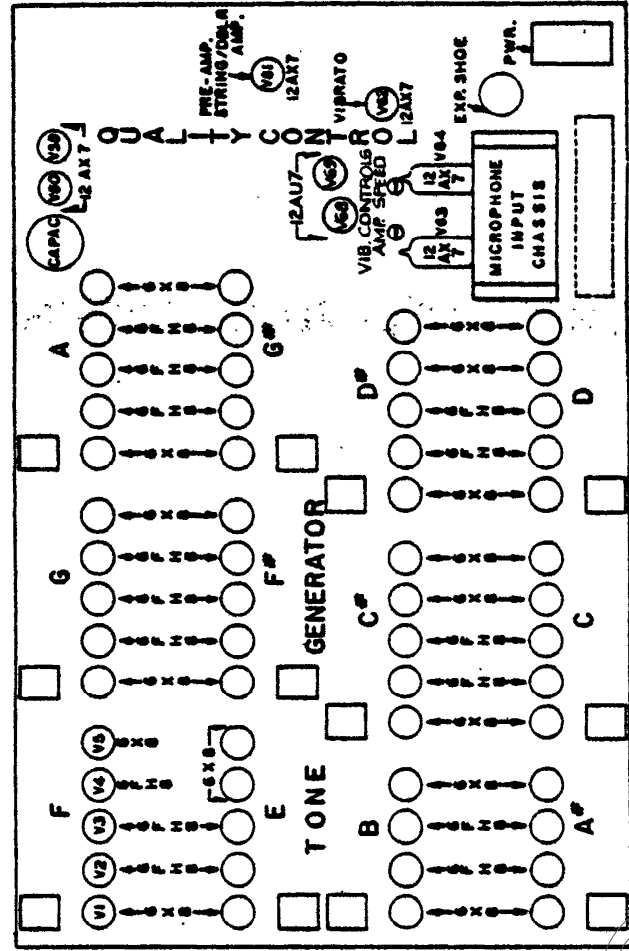


POWER SUPPLY CHASSIS COMPONENT LAYOUT



4	PICCOLO	V9 (100~)	GRR1 F-DR2 (1200~)	V2 (1ST. DIV.)	V1 (OSC.)
8	FLUTE	V3 (100~)	GRR1 F-DR2 (1200~)	V2 (1ST. DIV.)	V1 (OSC.)
	VIOLIN	V4 (100~)	GRR1 F-DR2 (1200~)	V2 (1ST. DIV.)	V1 (OSC.)
	TRUMPET	V5 (100~)	GRR1 F-DR2 (1200~)	V2 (1ST. DIV.)	V1 (OSC.)
16	CLARINET	V6 (100~)	GRR1 F-DR2 (1200~)	V2 (1ST. DIV.)	V1 (OSC.)

ON C-E V6 IS USED ONLY FOR BASS ROW BUTTONS (C-E)
 ON F-A V6 IS USED FOR CLARINET F-A (ON KEYBOARD) # ALSO FOR F-A BASS ROW BUTTONS.
 F-A BASS ROW BUTTONS FROM V4
 CHORDS F-A ARE FROM V4 (3RD. DIV.) A-E ARE FROM V3 (2ND. DIV.)



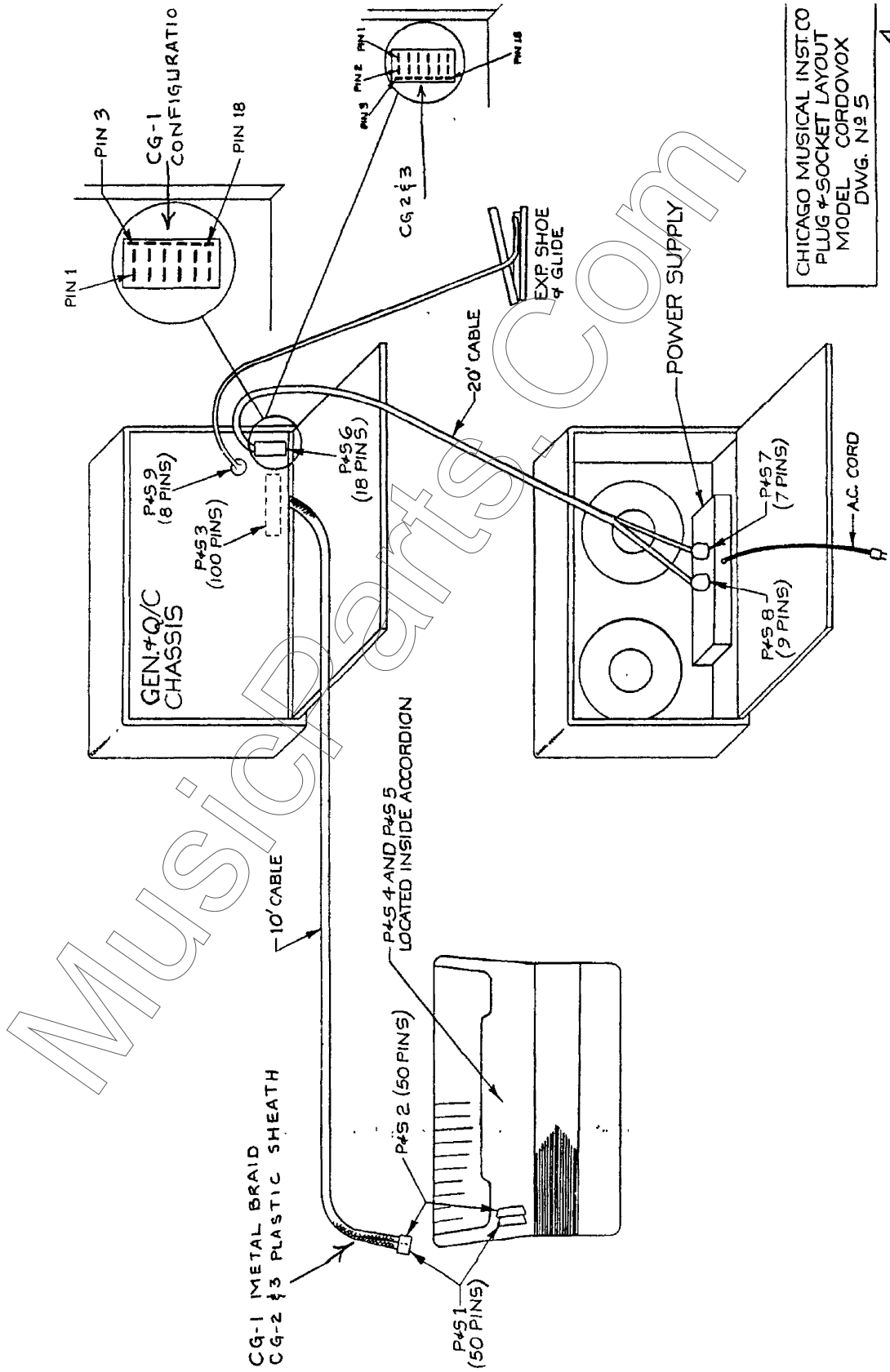
GEN. CHASSIS COMPONENT LAYOUT

TUBE FUNCTIONS

- V1 6X8 OSC.
- V2 6FH8 1ST. DIV.
- V3 6FH8 2ND. DIV.
- V4 6FH8 3RD. DIV. (F-A) 6X8 (A-E)
- V5 6X8 4TH. DIV. ALL GEN'S EXCEPT A+B
- V59 12AX7 150~/850~ FIL.
- V60 " 1200~/1700~ FIL.
- V61 " PRE-AMP/STR. F. DBLR. AMP.
- V62 " VIB. OSC./VIB. CATH. FOLL.
- V63 " MIKE PRE-AMP (AUX.)
- V64 " ACCORDION MIKE PRE-AMP/CATH. FOLL. DRIVER (TOTAL AUDIO)
- V65 " VOLT. AMP./PHASE INV.
- V66 7591 " OUTPUT TUBES
- V67 " BASS RELAY CONTROL
- V68 12AU7 " TREBLE RELAY CONTROL
- V69 " GEN. CHASSIS

CHICAGO MUSICAL INST. CO.
 TONAL FLOW & TUBE LOCATION &
 FUNCTION CHART
 MODEL CORDOVOX
 DWG. NE1

AFTER SERIAL # 2000



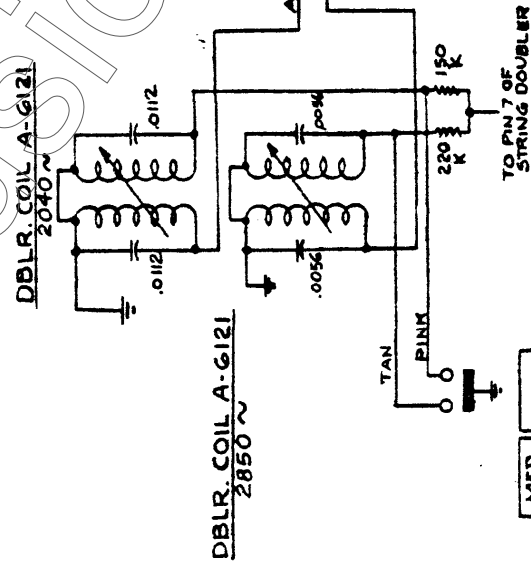
CHICAGO MUSICAL INSTR. CO
 PLUG & SOCKET LAYOUT
 MODEL CORDOVOX
 DWG. N^o 5

A	B	C	D	E	F	G	A
C1	.033	.027	.022	.018	.015		
C2	.0082						
L1	A-8043-2		.0047				A-8043-1

F-A
GEN'S.

DBLR. COIL A-G121
2040 ~

DBLR. COIL A-G121
2850 ~

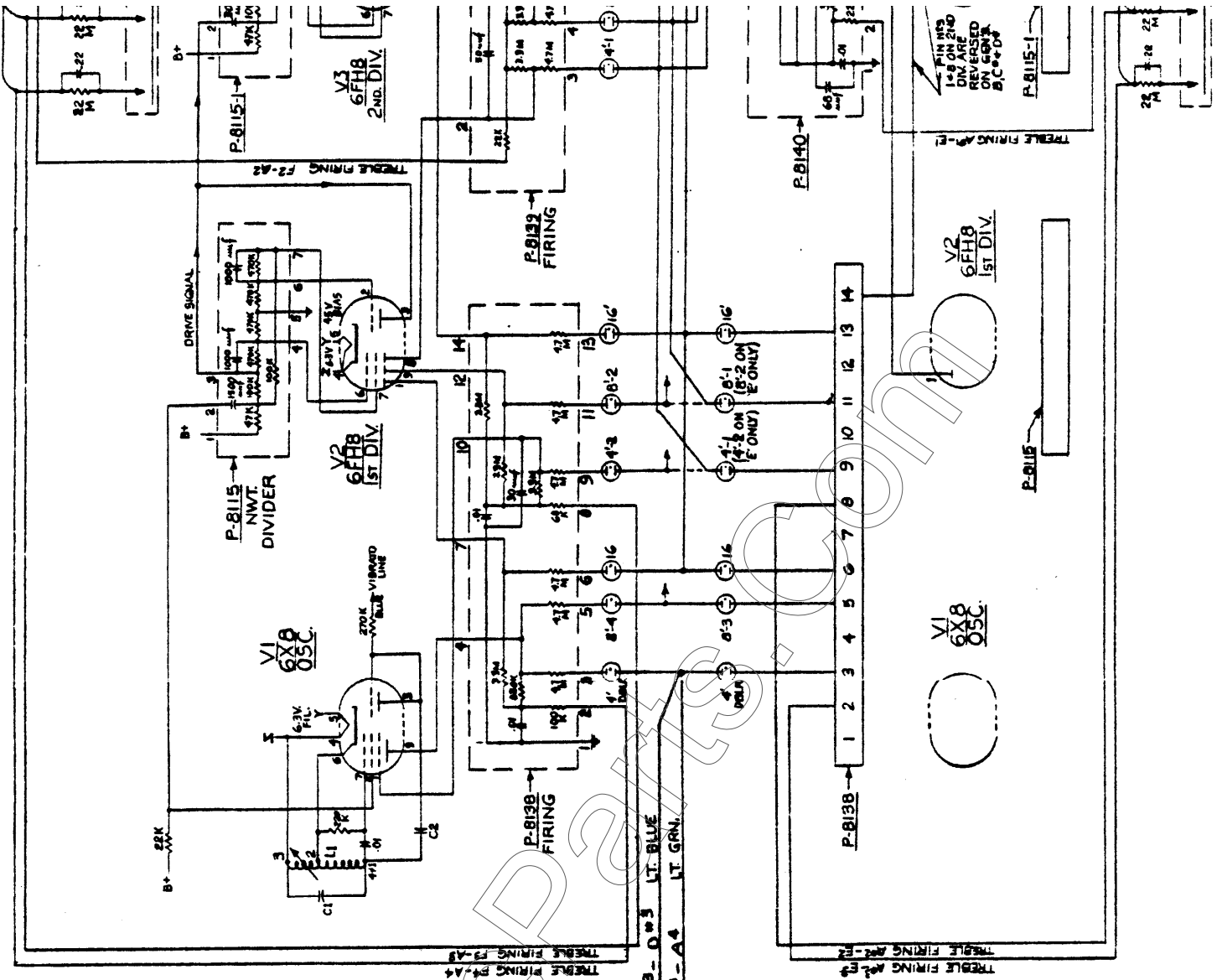


A#-E
GEN'S.

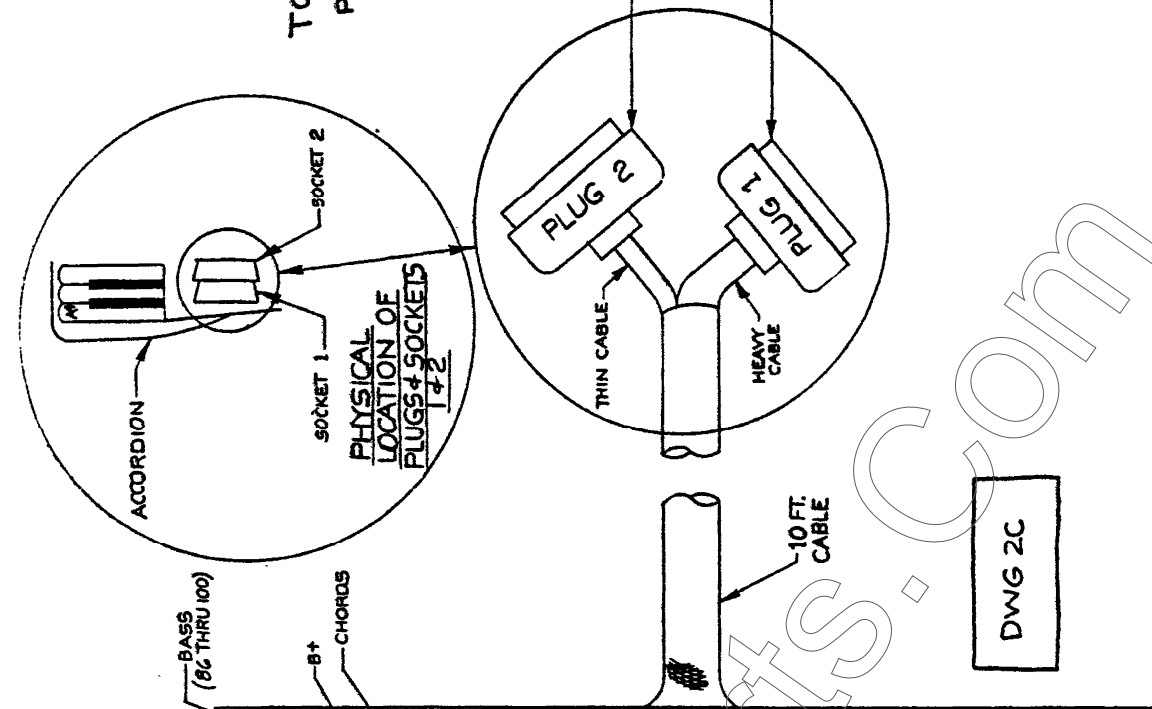
MED
PICCOLO
VOL.
LOUD

TAB IN LOUD
POSITION

CHICAGO MUSICAL INST. CO
TONE GENERATORS
MODEL CORDOVOX
DWG. NO 2

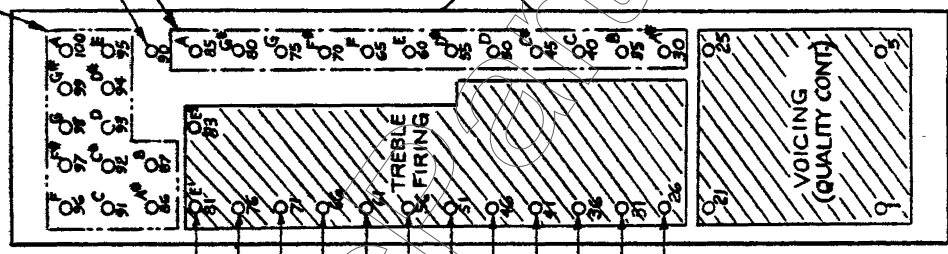


TO DRAWING
2D
PAGE 7B

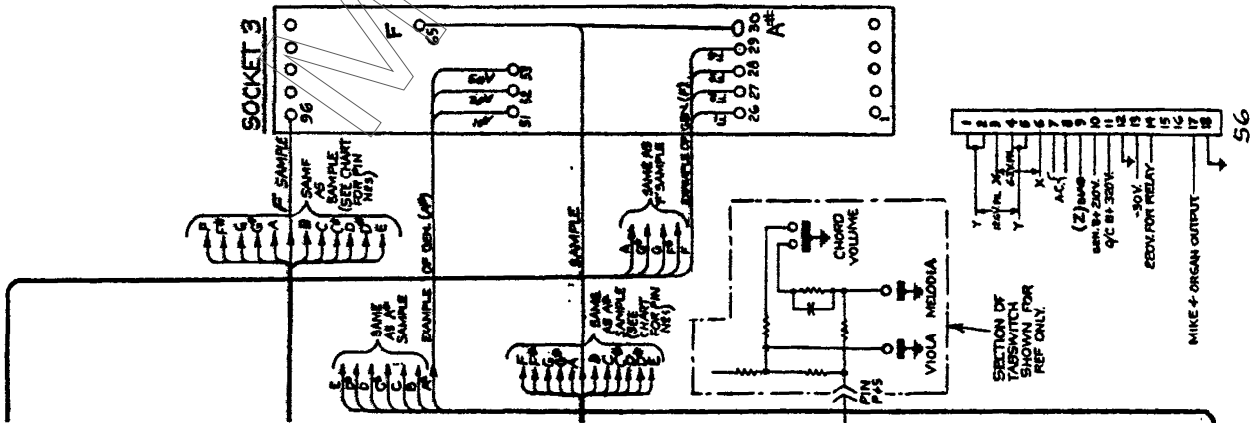


DWG 2C

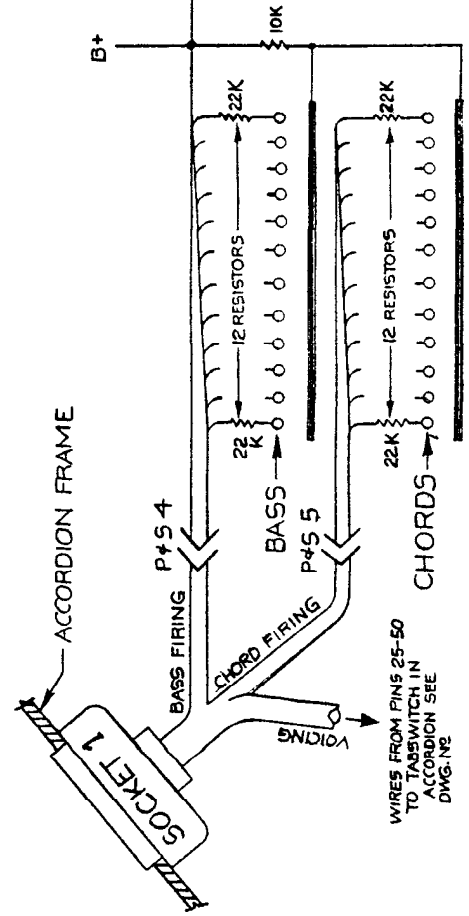
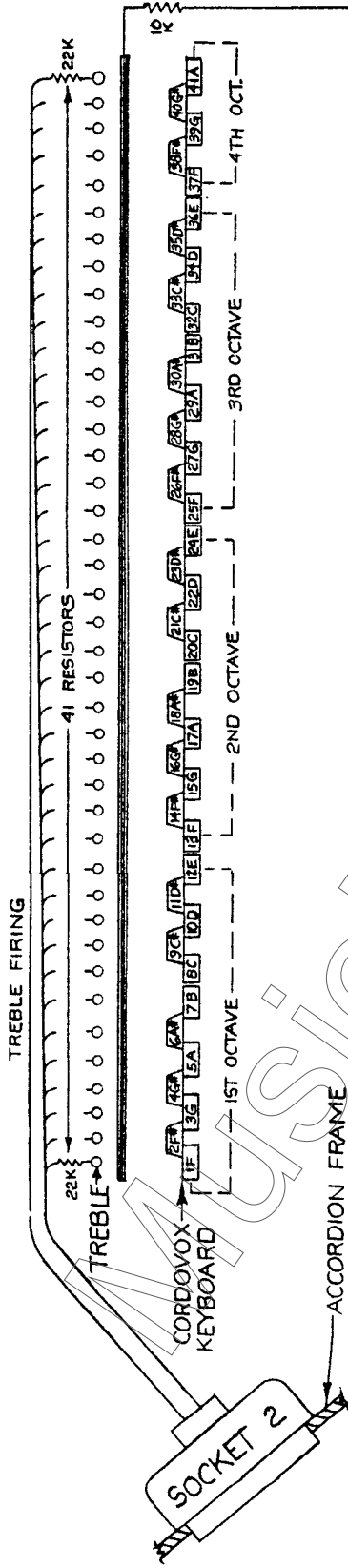
PLUG #3



- E1 E2 E3 OCTAVES (61-89)
- D1 D2 D3 OCTAVES (72-78)
- D1 D2 D3 OCTAVES (71-73)
- C1 C2 C3 OCTAVES (66-68)
- C1 C2 C3 OCTAVES (61-65)
- B1 B2 B3 OCTAVES (56-58)
- A1 A2 A3 OCTAVES (51-53)
- A1 A2 A3 OCTAVES (46-48)
- G1 G2 G3 OCTAVES (41-43)
- G1 G2 G3 OCTAVES (36-38)
- F1 F2 F3 OCTAVES (31-33)
- F1 F2 F3 OCTAVES (26-28)

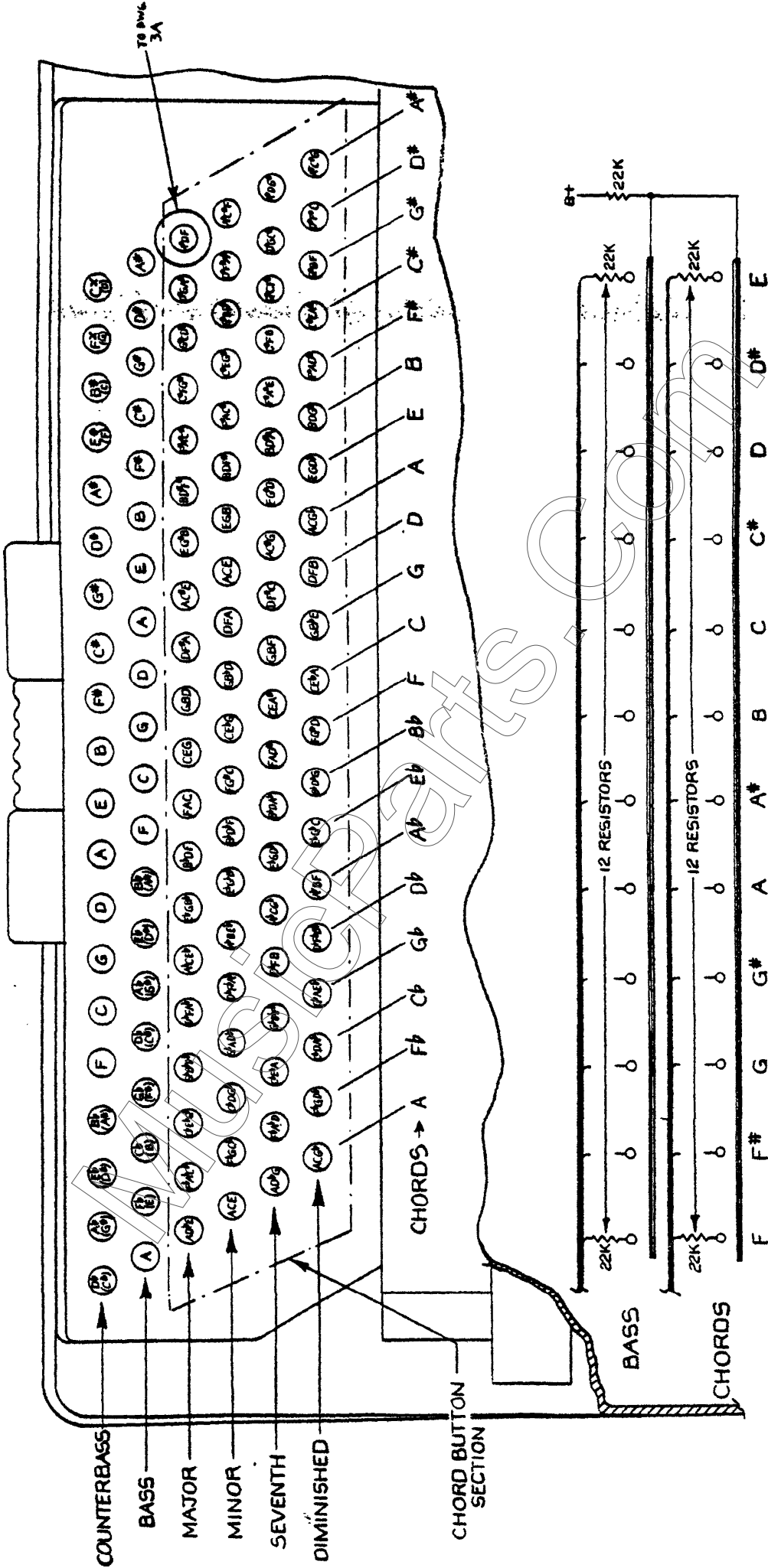


FROM
DRAWING
NO 2
PAGE 5

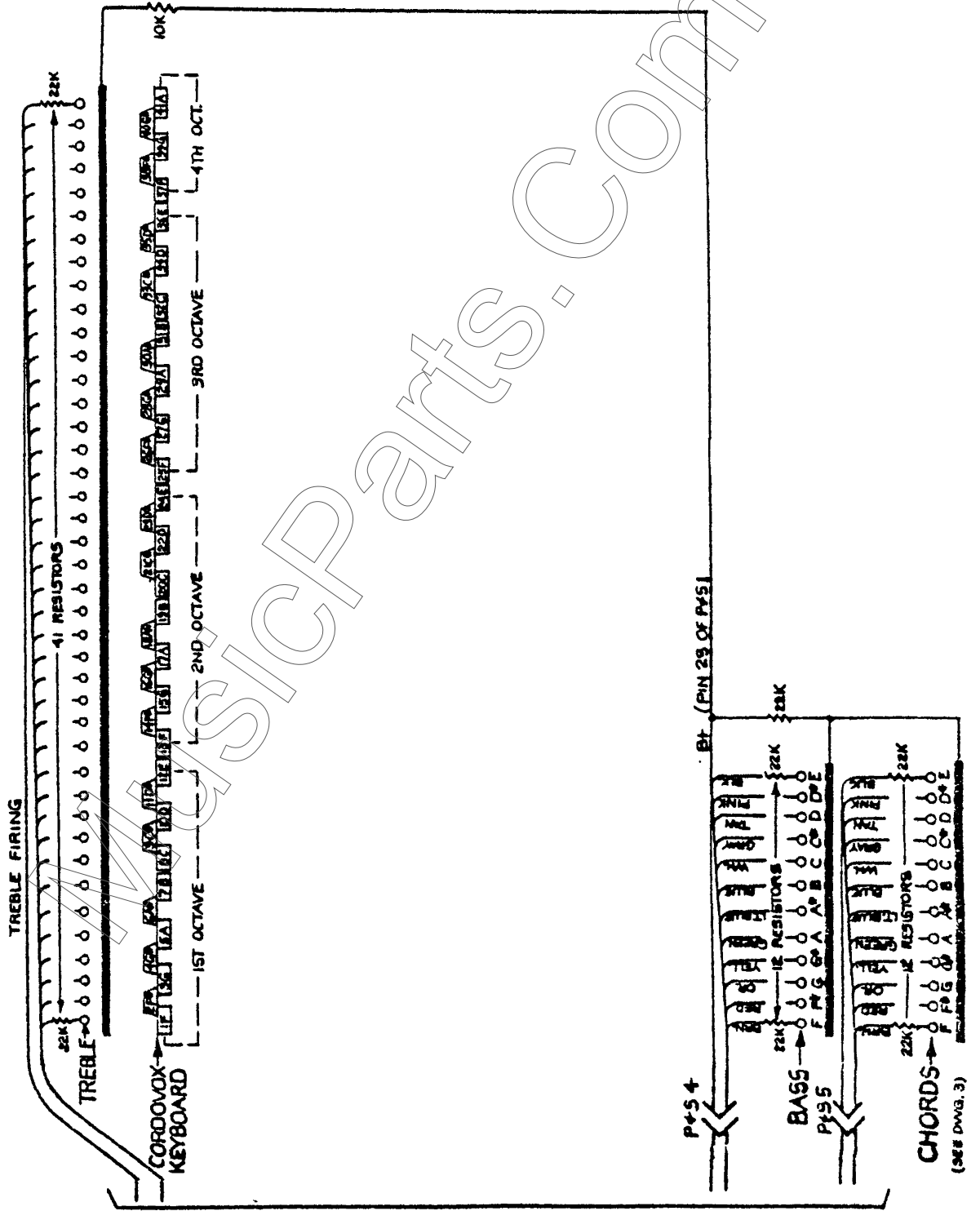


WIRES FROM PINS 25-50
TO TABSWITCH IN
ACCORDION SEE
DWG. NO

CHICAGO MUSICAL INST.
KEYSWITCH WIRING DIAGRAM
MODEL - CORDOVOX
DWG. NO 1B
GG-1



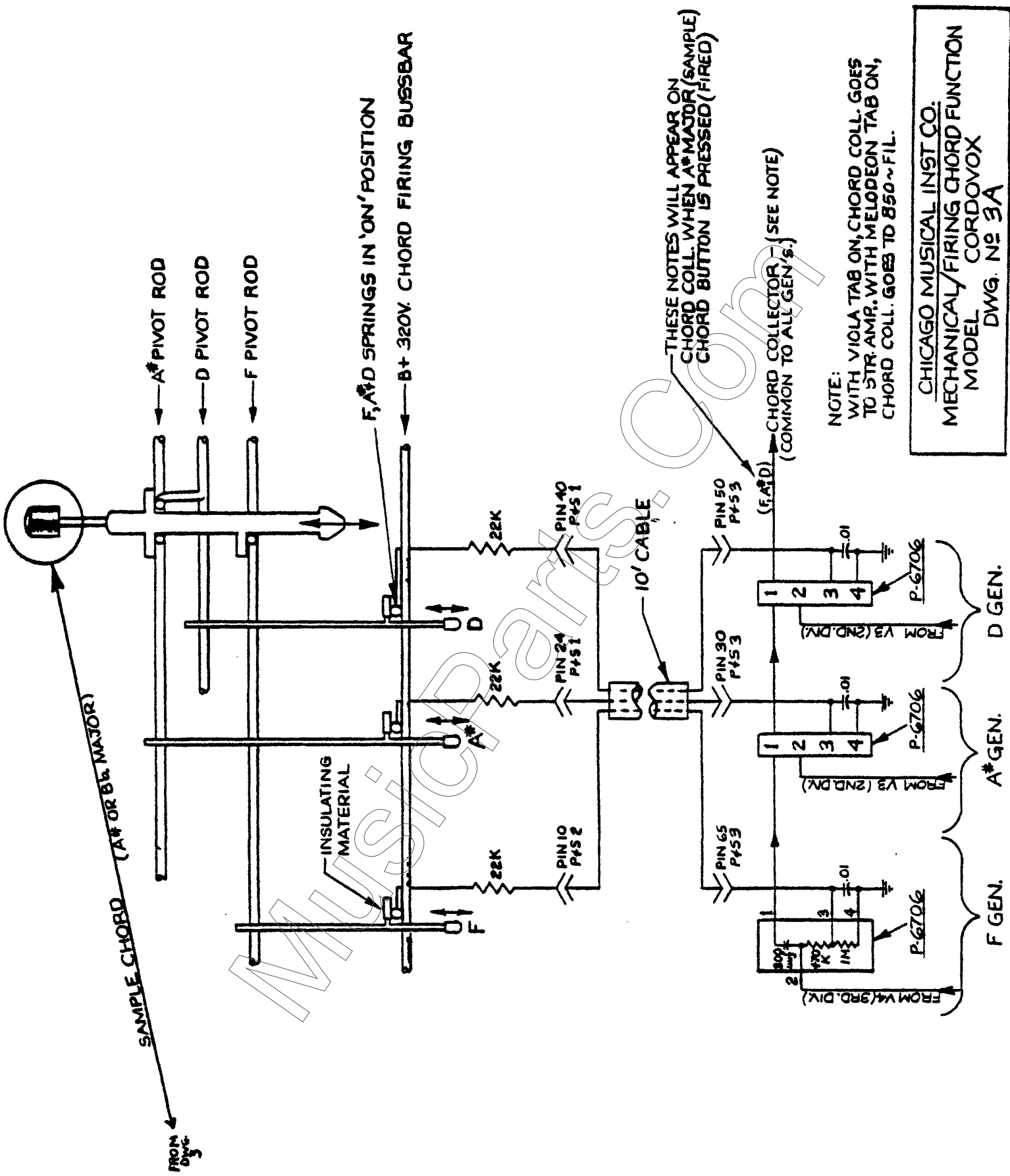
CHICAGO MUSICAL INST. CO.
 MECHANICAL/WIRING CHORD FUNCTION
 MODEL CORDOVOX
 DWG. N.E. 3



FROM
Dwg.
2A

MusicP arts . Com

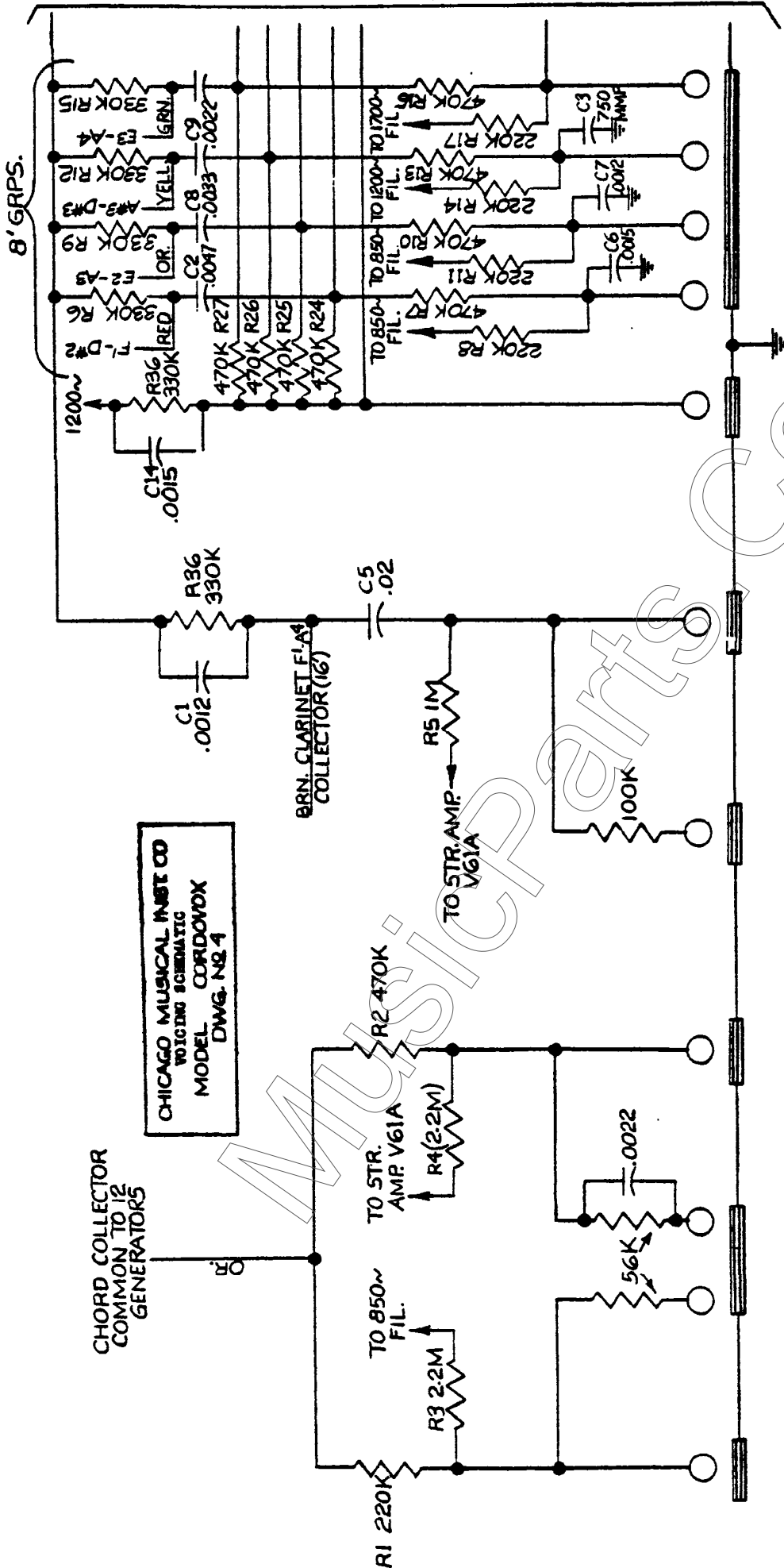
(SEE DWG. 3)



THESE NOTES WILL APPEAR ON CHORD COLL. WHEN A# MAJOR (SAMPLE) CHORD BUTTON IS PRESSED (FIRED)

NOTE:
WITH VIOLA TAB ON, CHORD COLL. GOES TO 5TR AMP. WITH MELODEON TAB ON, CHORD COLL. GOES TO 850~FIL.

CHICAGO MUSICAL INST CO.
MECHANICAL/FIRING CHORD FUNCTION
MODEL CORDOVOX
DWG. No 3A



CHICAGO MUSICAL INSTR CO
WIRING SCHEMATIC
MODEL CORDOVOX
DWG. N2.4

CHORD COLLECTOR
COMMON TO 12
GENERATORS

BRN. CLARINET FIL. AS
COLLECTOR (16')

FLUTE

TRUMPET

BASS
CLARINET

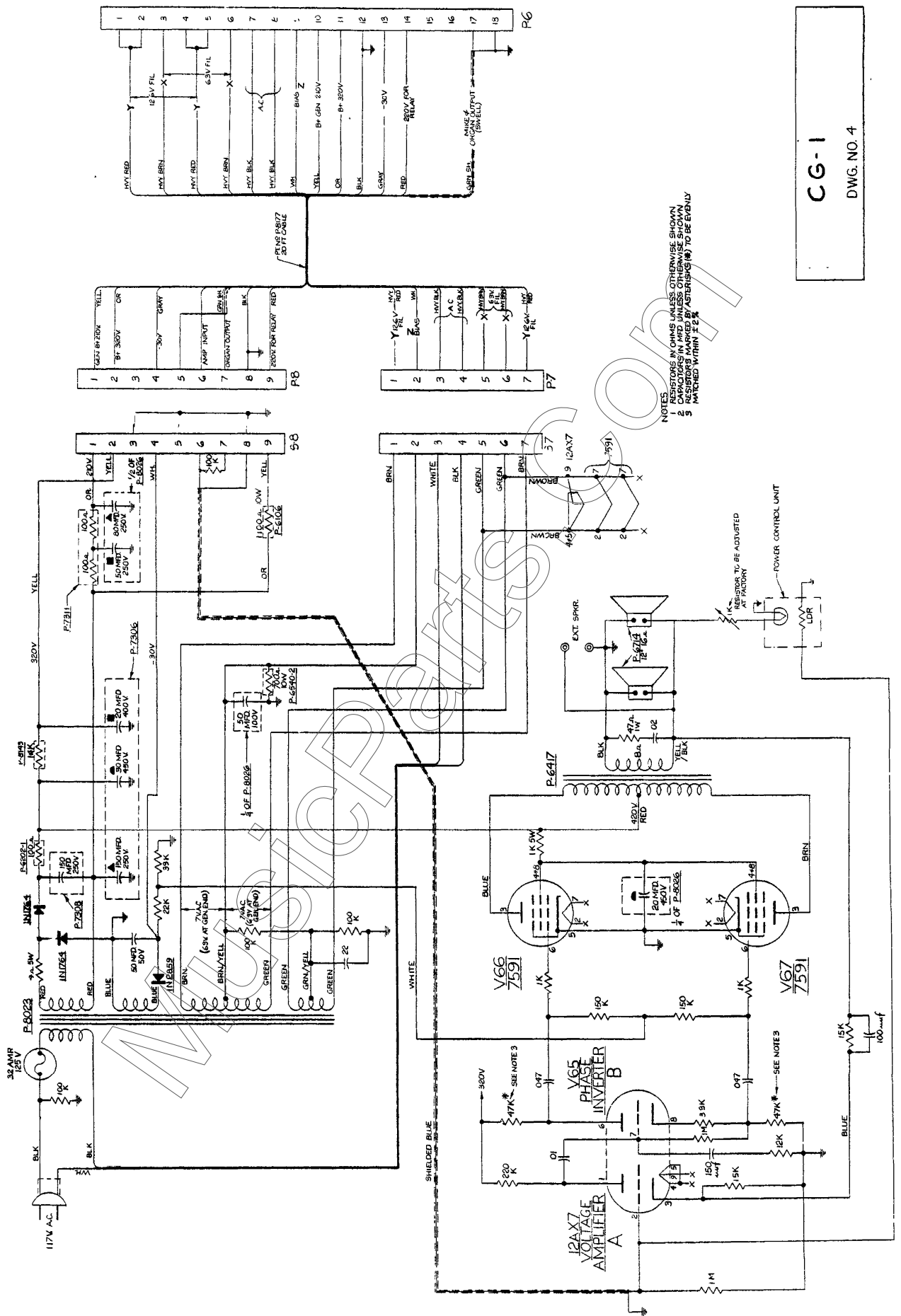
MED
CLARINET
VOLUME
LOUD

VIOLA

MED
CHORD
VOLUME
LOUD

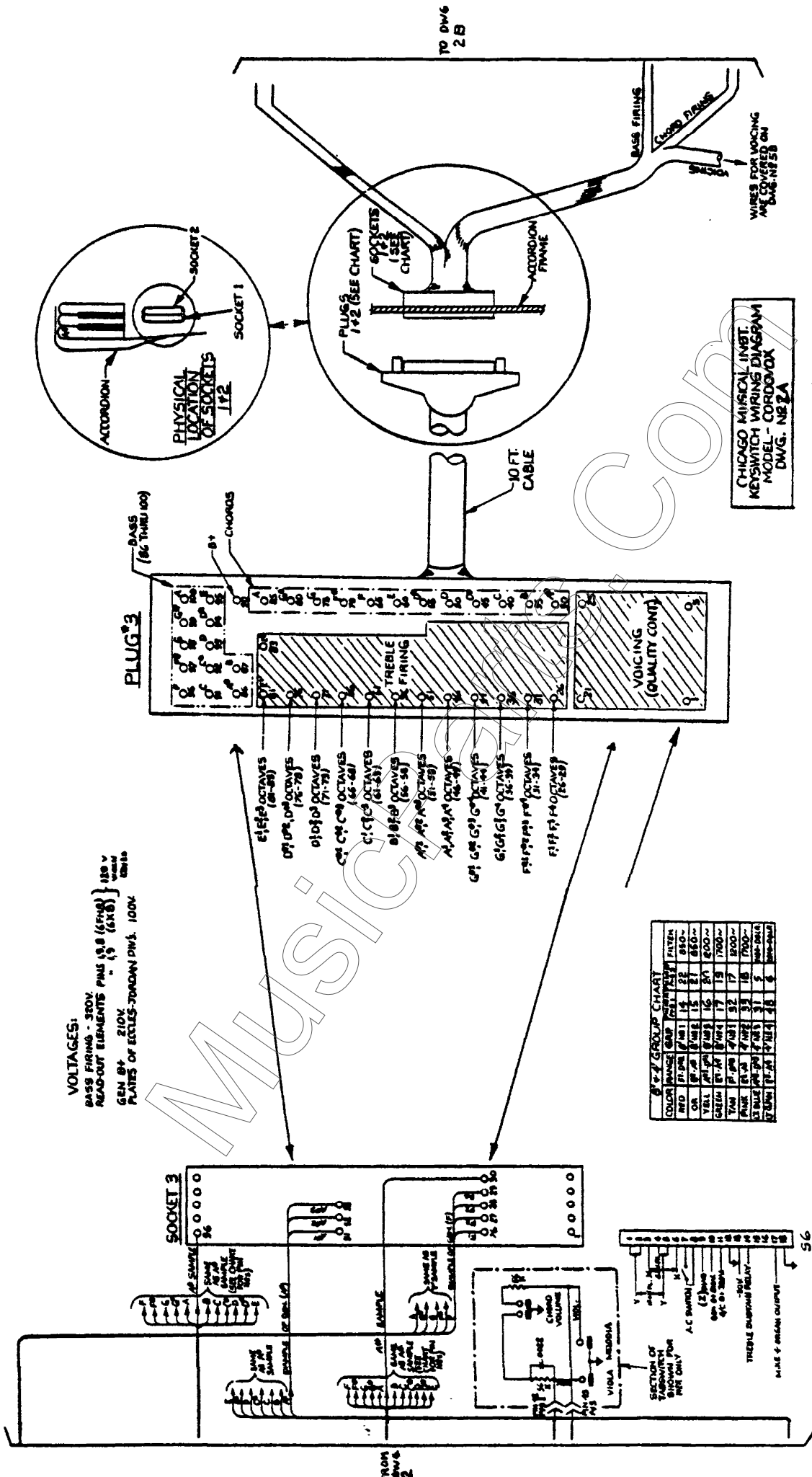
MELODEON

CHORDS



NOTES
 1. RESISTORS IN OHMS (UNLESS OTHERWISE SHOWN)
 2. CAPACITORS IN MFD UNLESS OTHERWISE SHOWN
 3. RESISTORS MARKED BY ASTERISK (*) TO BE EXACTLY
 4. MATCHED WITHIN ±2%

CG-1
 DWG. NO. 4



VOLTAGES:
 BASS FIRING - 350V
 READ-OUT ELEMENTS PLUS 15.8 (6F48) 120V
 GEN B+ 210V
 PLATES OF ECCLES-STRADAN DWG. 100V

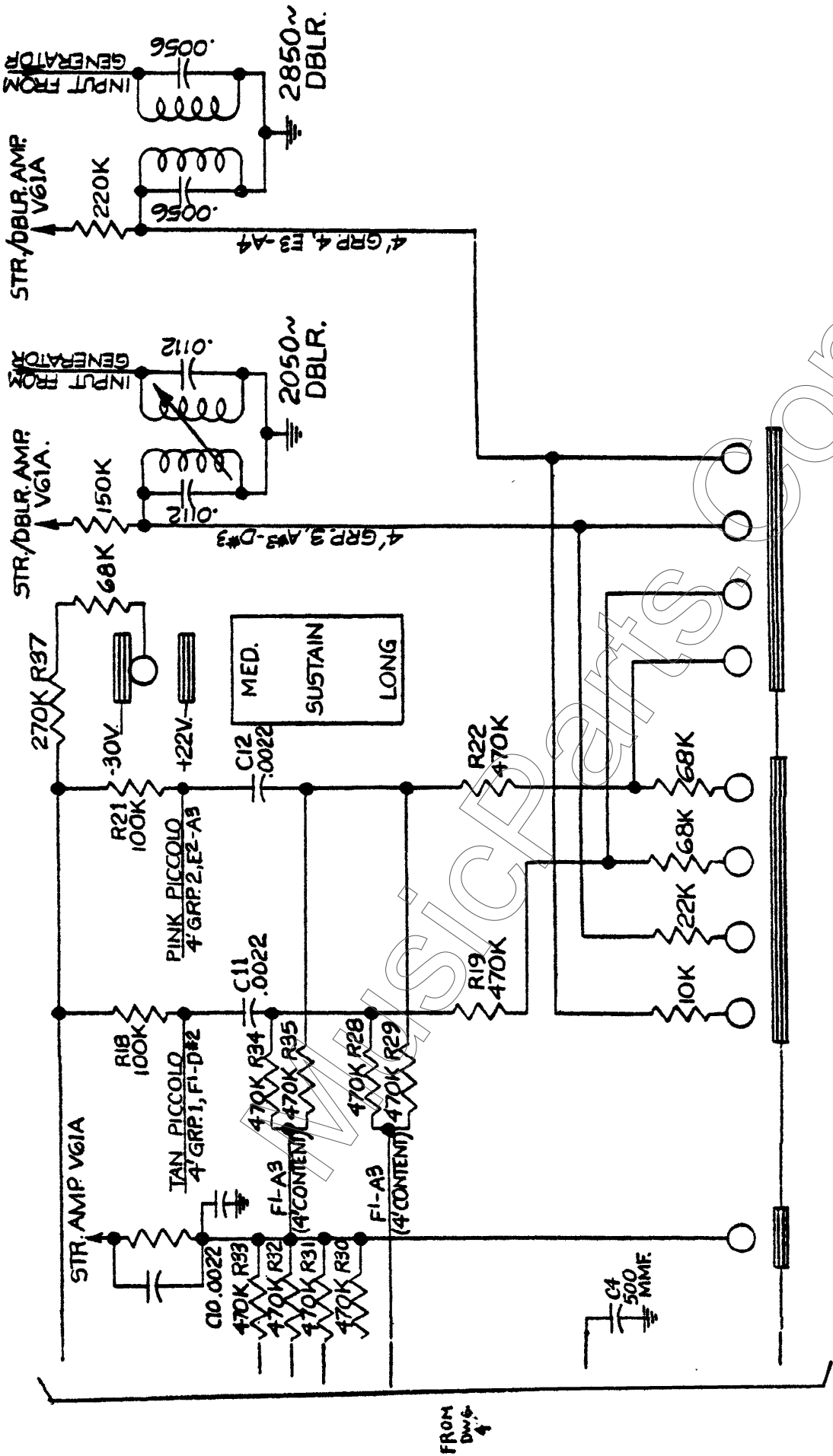
GROUP CHART

COLOR	WAVE	GROUP	TR	FR	FL	FILTRN
RED	P. 100	P. 101	14	22	28	350-
OR	P. 102	P. 103	15	21	27	350-
YELL	P. 104	P. 105	16	20	26	1000-
GREEN	P. 106	P. 107	17	19	25	1700-
TAN	P. 108	P. 109	18	18	24	1700-
PINK	P. 110	P. 111	19	17	23	1700-
3 BLUE	P. 112	P. 113	20	16	22	1700-
17 BROWN	P. 114	P. 115	21	15	21	1700-

FOR DWG. 2

TO DWG. 2B

CHICAGO MUSICAL INSTR.
 KEYSWITCH WIRING DIAGRAM
 MODEL - CORDOVOX
 DWG. NR. 2A



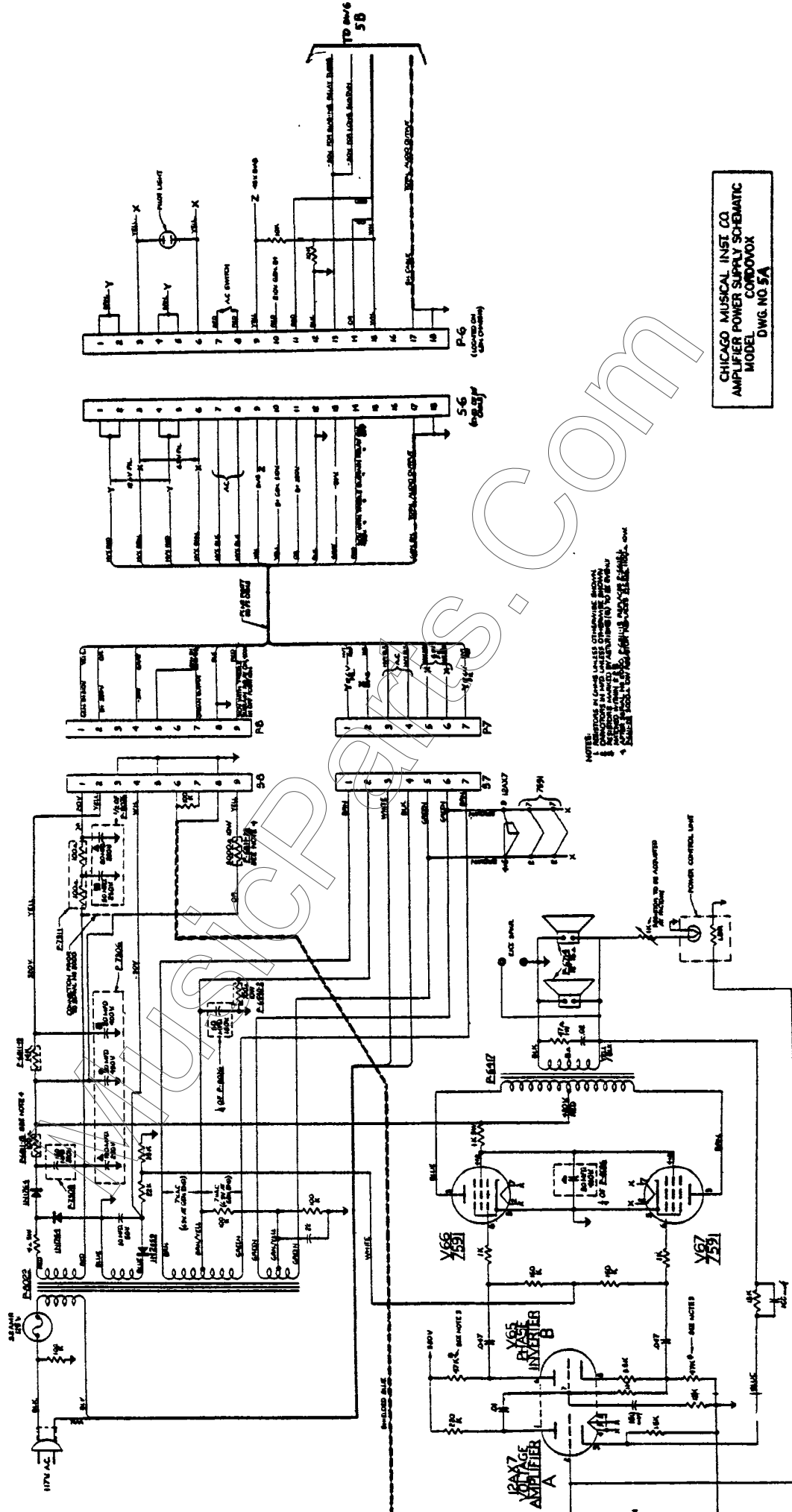
FROM DWG. 4

VIOLIN

MED
PICCOLO
VOLUME
LOUD

PICCOLO

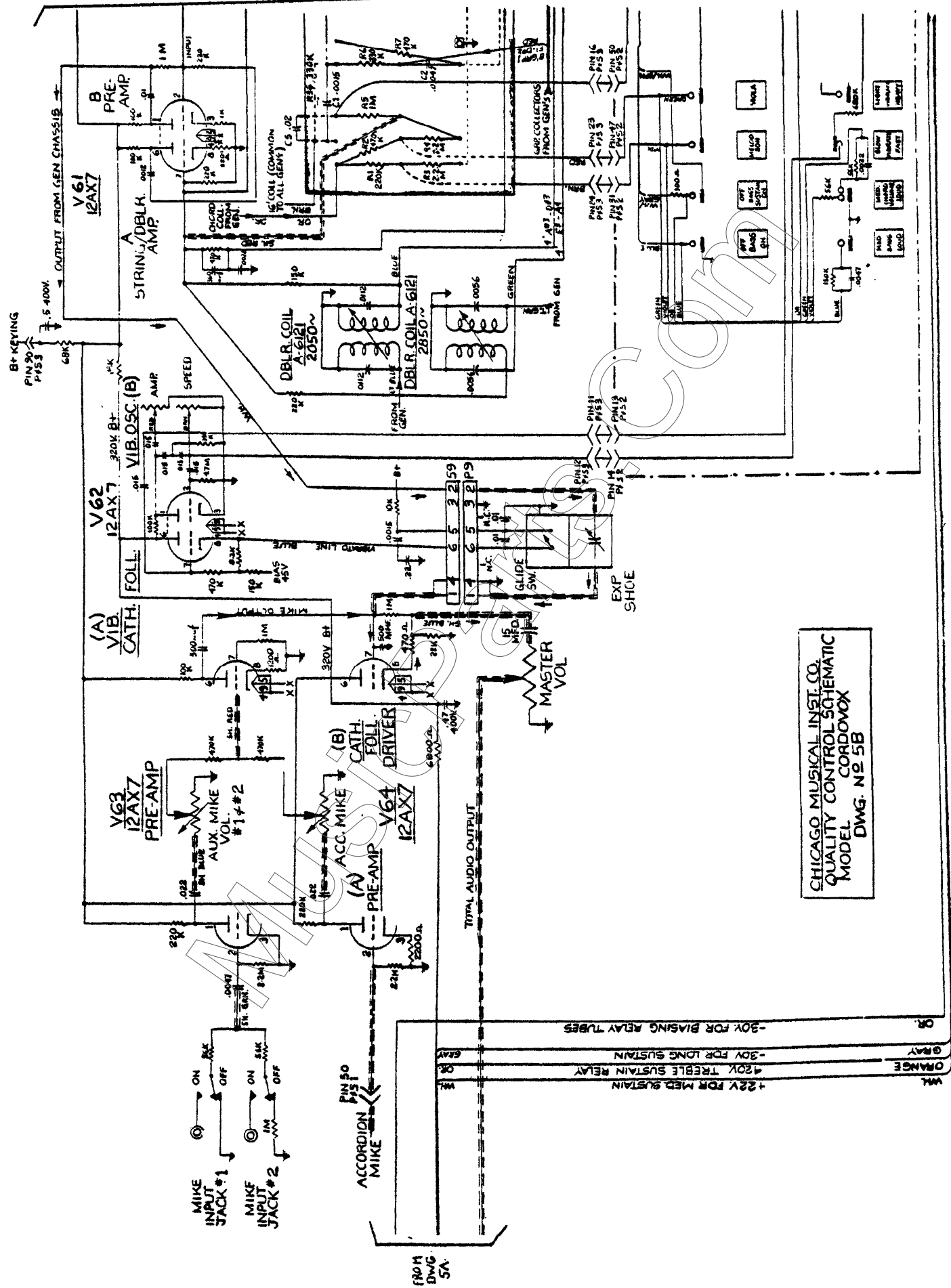
CHICAGO MUSICAL INST. CO.
VOICING SCHEMATIC
MODEL CORDOVOX
DWG. No 4A



NOTES:
 1. ALL COMPONENTS ARE TO BE OF THE HIGHEST QUALITY.
 2. ALL COMPONENTS ARE TO BE OF THE HIGHEST QUALITY.
 3. ALL COMPONENTS ARE TO BE OF THE HIGHEST QUALITY.
 4. ALL COMPONENTS ARE TO BE OF THE HIGHEST QUALITY.

CHICAGO MUSICAL INSTR. CO
 AMPLIFIER POWER SUPPLY SCHEMATIC
 MODEL COPDNOX
 DWG. NO. 5A

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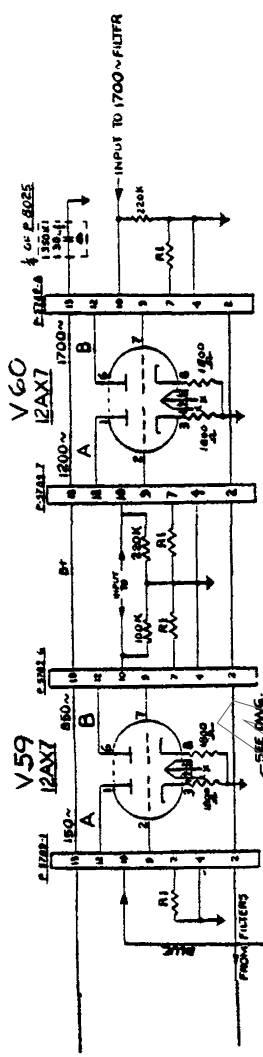


CHICAGO MUSICAL INSTR. CO.
QUALITY CONTROL SCHEMATIC
MODEL CORDOVOX
DWG. NO. 5B

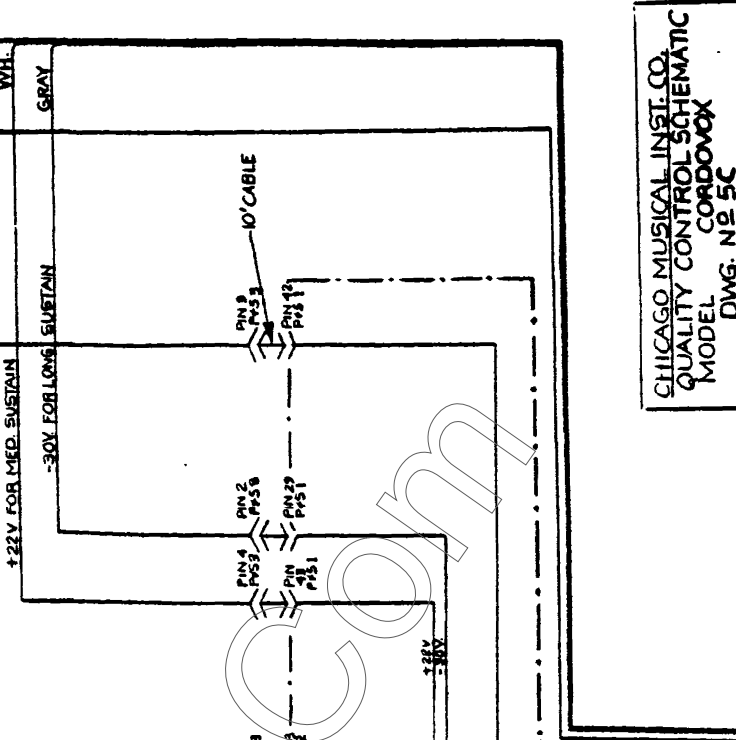
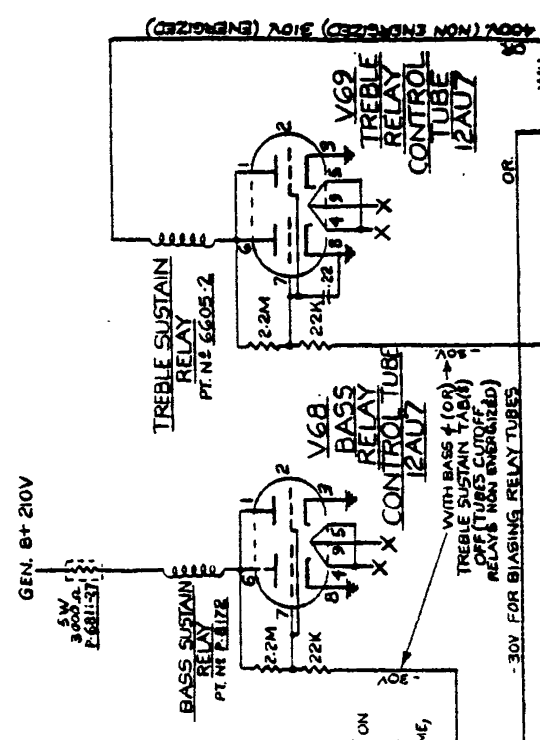
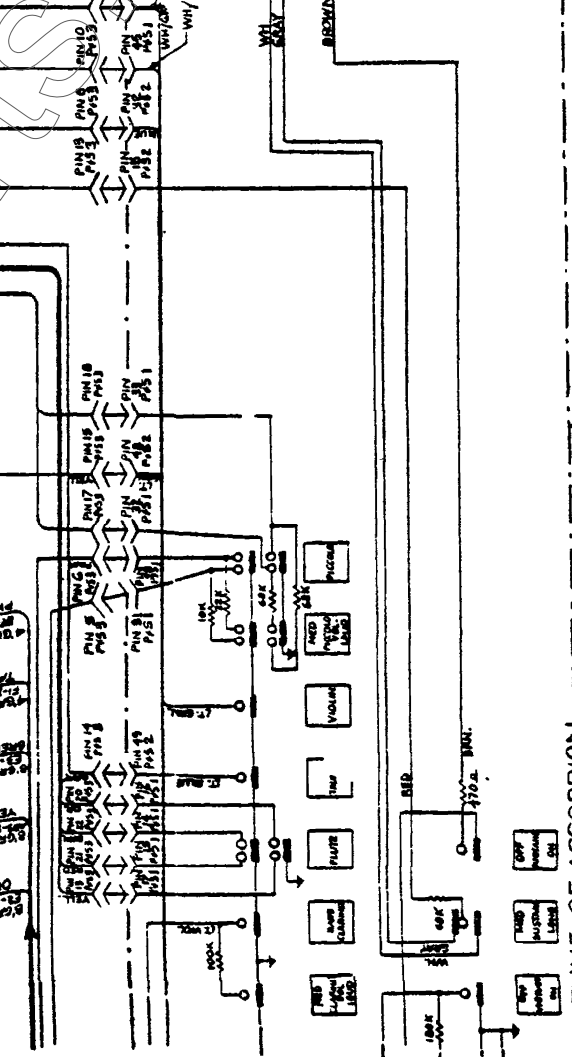
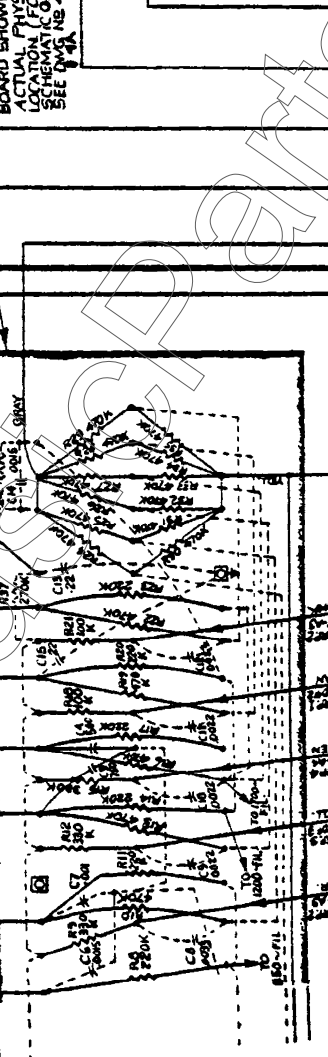
ORANGE
GRAY
WHT

+22V FOR MED SUSTAIN RELAY
+420V TREBLE SUSTAIN RELAY
-30V FOR LONG SUSTAIN RELAY
-30V FOR BIASING RELAY TUBES

FROM DWG. 5A



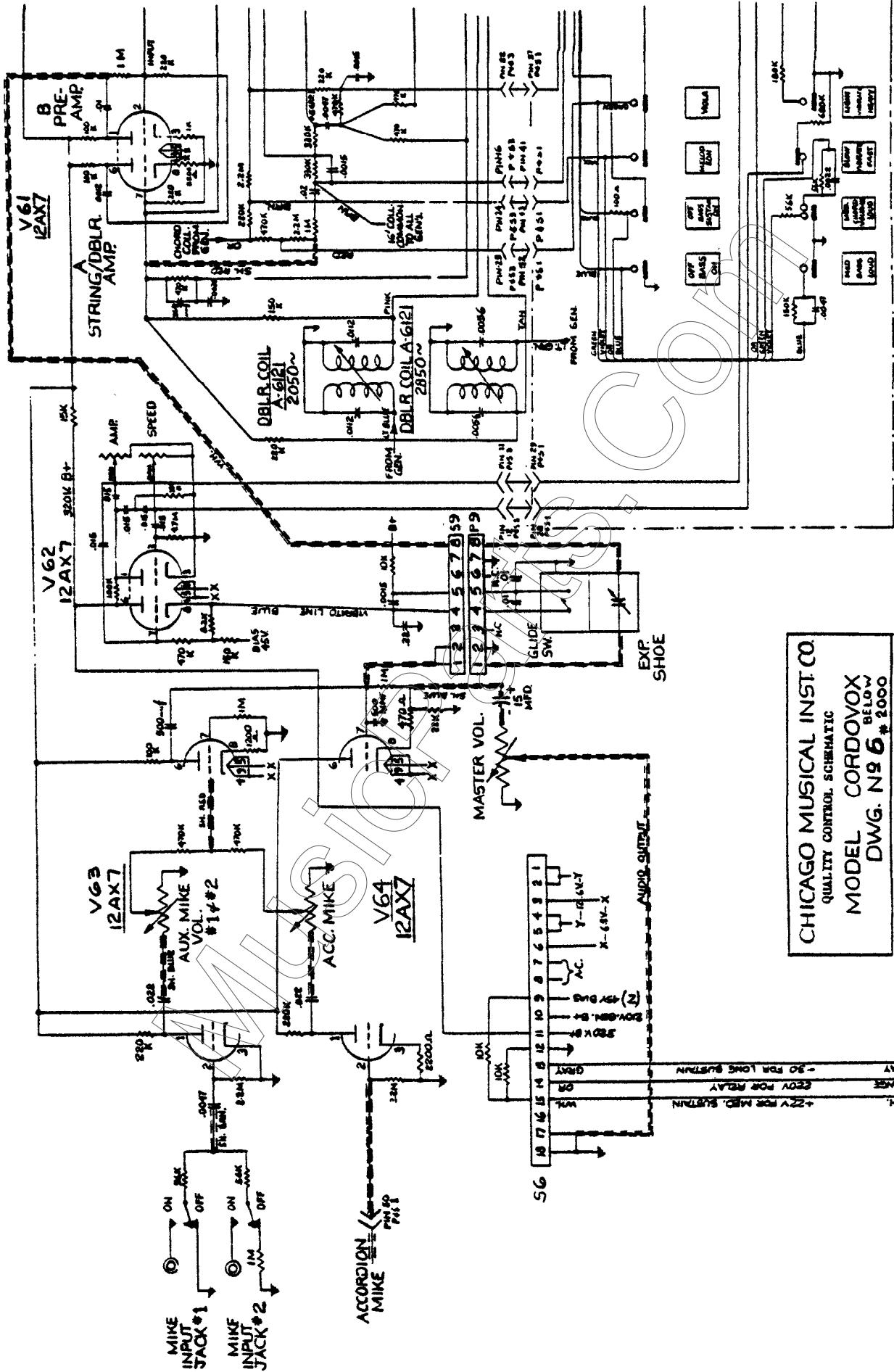
VOICING BOARD
ALL COMPONENTS ON BOARD SHOWN IN LOCATION (FOR SCHEMATIC OF SAME, SEE DWG. NO. 4)



CHICAGO MUSICAL INSTR. CO.
QUALITY CONTROL SCHEMATIC
MODEL CORDOVOK
DWG. NO. 5C

OUTLINE OF ACCORDION

FROM DWG. 5B

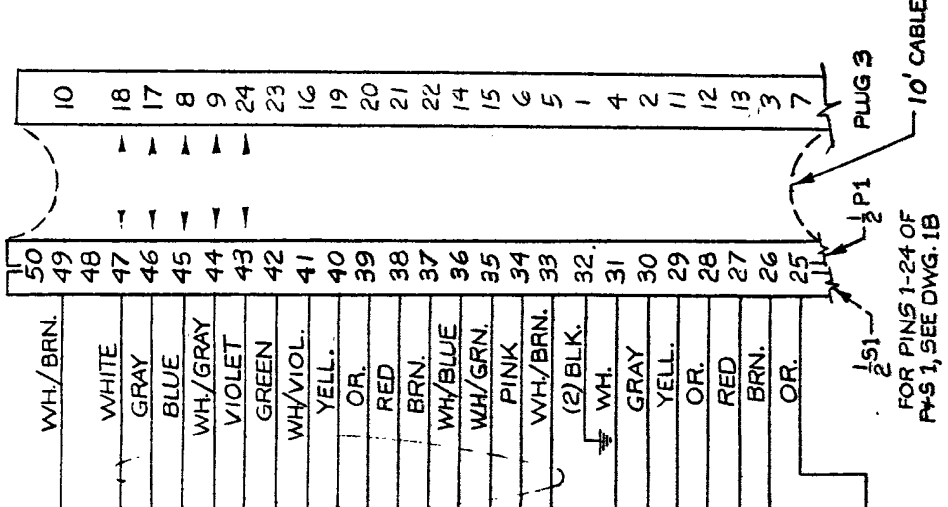


CHICAGO MUSICAL INST. CO.
 QUALITY CONTROL SCHEMATIC
 MODEL CORDOVOX
 DWG. N° 6 # 2000

WH. +22V FOR MED. SUBSTRN
 ORANGE 820V FOR REAY
 GRAY -30 FOR LOW SUBSTRN

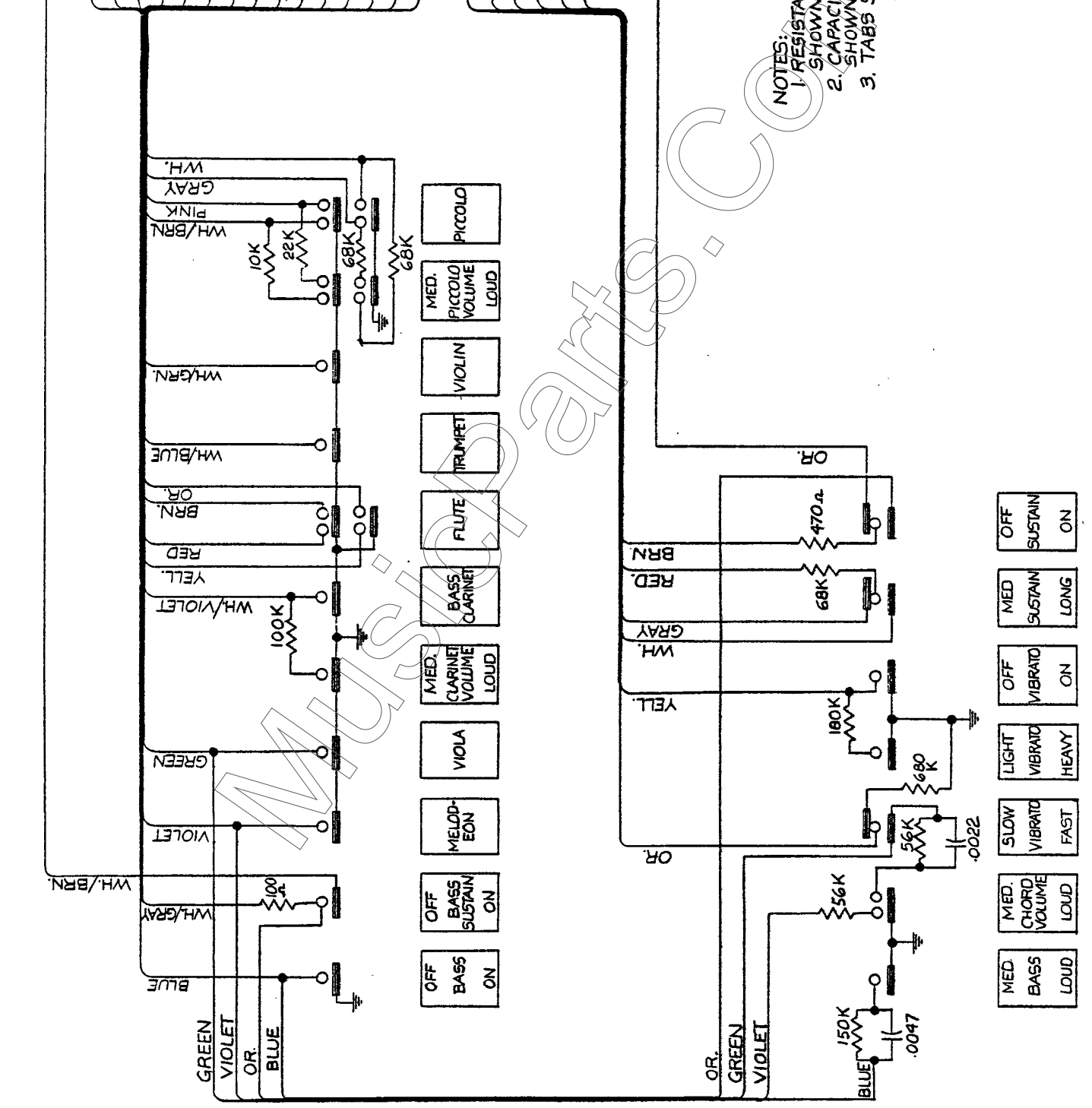
56 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

MIKE INPUT JACK #1
 MIKE INPUT JACK #2
 ACCORDION MIKE
 ACC. MIKE
 AUX. MIKE VOL. #1 #2
 MASTER VOL.
 EXP. SHOE
 GLIDE SW.
 DBLR COIL A-6121 2050~
 DBLR COIL A-6122 2850~
 STRING/DBLR AMP
 PRE-AMP B

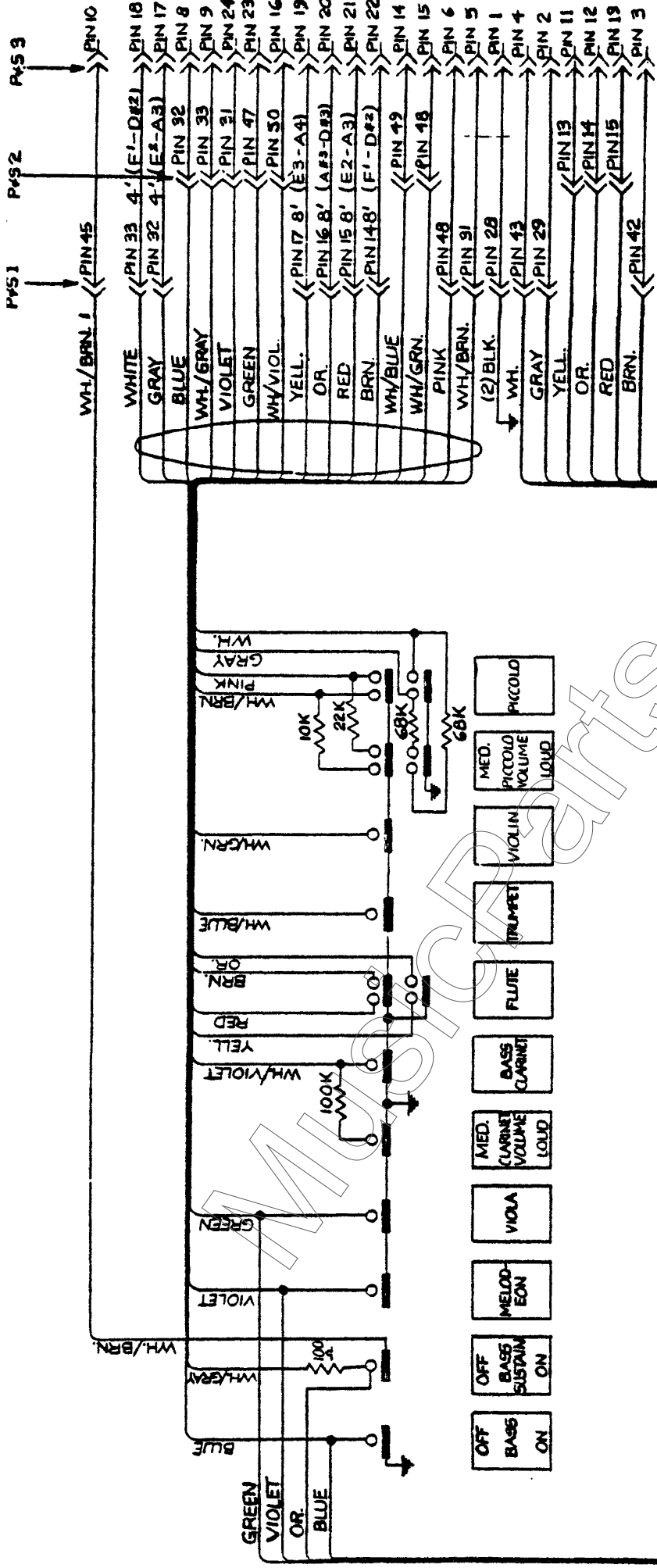


- NOTES:
1. RESISTANCE IN OHMS UNLESS OTHERWISE SHOWN.
 2. CAPACITANCE IN MFD. UNLESS OTHERWISE SHOWN.
 3. TABS SHOWN IN 'ON' POSITION.

CG-1
DWG. No 2

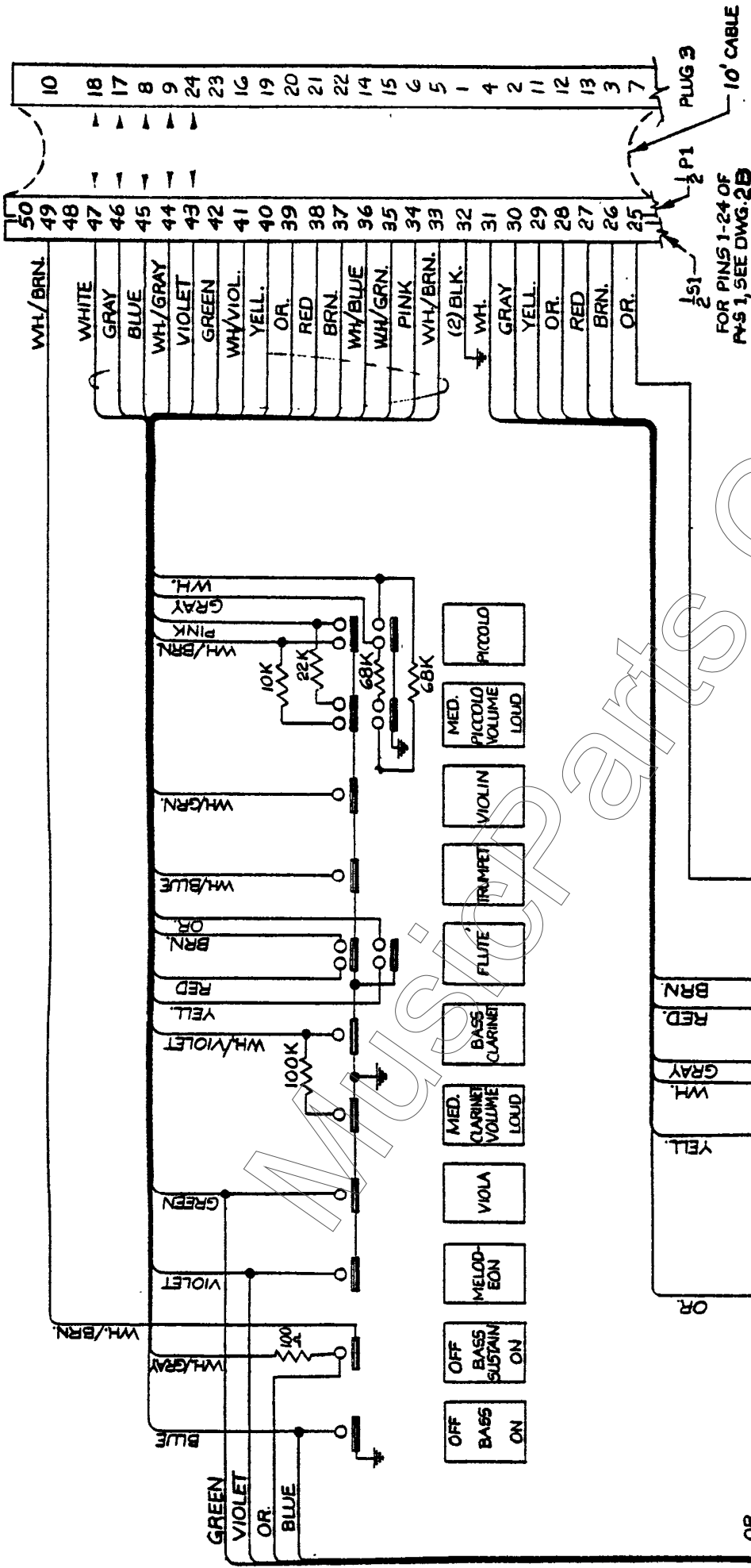


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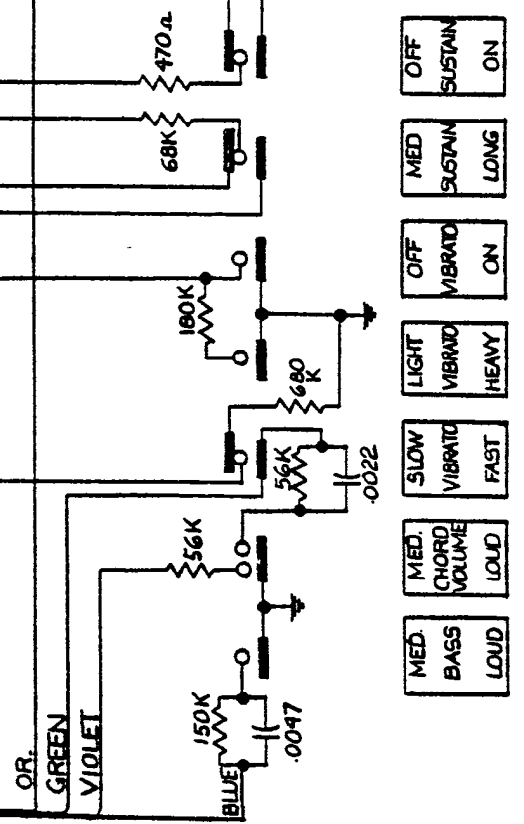
- NOTES:
1. RESISTANCE IN OHMS UNLESS OTHERWISE SHOWN.
 2. CAPACITANCE IN MFD. UNLESS OTHERWISE SHOWN.
 3. TABS SHOWN IN 'ON' POSITION.

CG 2 & 3
DWG. N 8 7

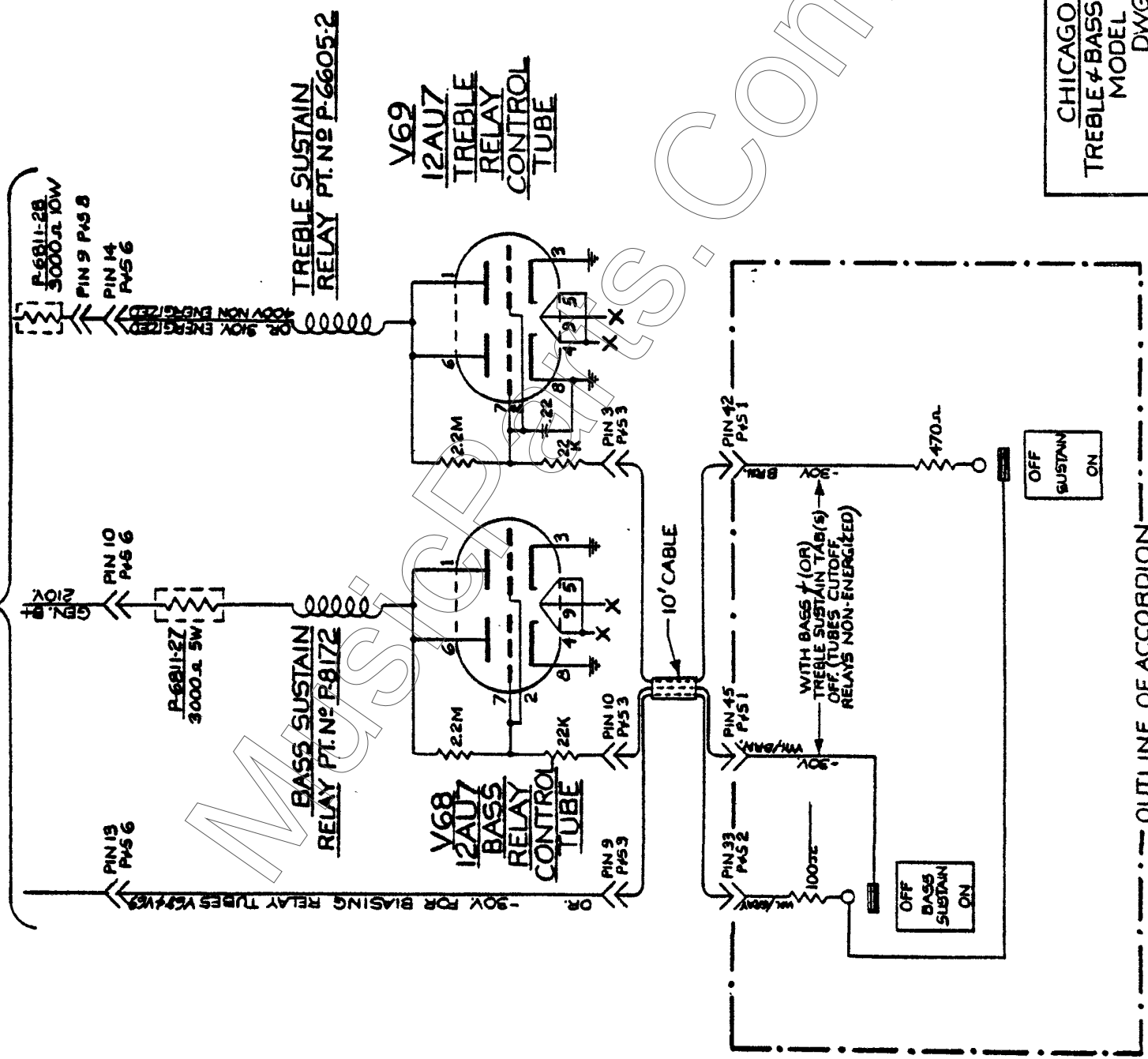


- NOTES:
1. RESISTANCE IN OHMS UNLESS OTHERWISE SHOWN.
 2. CAPACITANCE IN MFD. UNLESS OTHERWISE SHOWN.
 3. TABS SHOWN IN 'ON' POSITION.

CHICAGO MUSICAL INST. CO.
TABSWITCH SCHEMATIC
MODEL CORDVOX BELOW
DWG. N2 7A #2000



SEE DWG. N8 5A (POWER SUPPLY)



CHICAGO MUSICAL INST. CO.
 TREBLE & BASS SUSTAIN RELAY CIRCUIT
 MODEL CORDCVQX
 DWG. N° 8

OUTLINE OF ACCORDION

OFF
 BASS
 SUSTAIN
 ON

OFF
 SUSTAIN
 ON

WITH BASS (OR)
 TREBLE SUSTAIN TAB(S)
 OFF (TUBES CUTOFF
 RELAYS NON-ENERGIZED)

ELECTRICAL INFORMATION

tuning

Cordovox electronic circuits are very stable and the positively locked oscillator system was carefully tuned at the factory. However, if a special use requires a change in pitch of the entire organ, such as playing with a piano or other instrument not using the standard A-440 pitch, this can be accomplished in a few minutes with the Cordovox. We recommend that you contact your Cordovox dealer for this service.

Master Volume Control located on the tone generator chassis (see Figure 1, last page) is used to set the volume to suit the room playing conditions. (i.e. size, absorption, etc.) To reduce volume turn clockwise.

Never plug the Cordovox into a DC Outlet—Damage May Result. The line cord from the rear of the Amplifier MUST BE PLUGGED INTO STANDARD 110-120 Volt AC LINE. (If the power supplied in your area is other than 110-120 Volt AC, 50-60 cycles, be sure there is a notice on the back of the Generator that corresponds to your special power requirements.) Normal voltage fluctuations won't affect your Cordovox, although regulation by your electrician may be required if voltage goes above 125 or below 100 volts.

The power amplifier consists of two push-pull 7591 tubes. Two 12" heavy duty speakers are used.

tube replacement

Past experience has shown us that although many purchasers of Cordovox have no technical understanding of the vast field of electronics, they are able to replace a defective tube. So, this material has been prepared for those who know something of the subject.

There are only four different types of tubes in the Cordovox. They are standard tubes which can be purchased from any radio or TV repair shop.

tone generators

After opening the back of the Generator Cabinet, you will see a large chassis containing the 58 tone generator tubes. (See Figure 1.) This chassis is divided into twelve sections, each of which produces the family of tones indicated by the stamping next to the square metal can. Since, for the purpose of this discussion these twelve sections are all the same, we will consider only one.

The tube which produces the highest tone for a family of notes is in the V-1 socket closest to the metal can. (Note: Although type 6X8 is used in V-1 sockets, type 6FA7 can be used as a replacement.) The next tube in the V-1 socket is locked to it and produces the tone exactly one octave lower.

CHECK LIST

for proper operation of your cordovox

If your Cordovox becomes inoperative or does not function properly, first follow this simple step-by-step Check List before calling for service.

1. Make certain that the line cord is plugged into a live AC outlet. Make sure the wall receptacle is not faulty. Hum from the speaker may be reduced by reversing the line cord plug in the wall outlet. Generator should be plugged into accordion. Make sure that amplifier is plugged into generator chassis. Expression shoe should be plugged into generator chassis.

2. Be sure the "Off-On" switch is on. Pilot light will indicate this, but as pilot lights occasionally burn out, look in back to make certain tubes are lighted.

3. FUSE: There is one fuse for the entire Cordovox. If neither pilot light nor any of the tubes is lighted, check for blown fuse in back of speaker amp cabinet. Fuse is easily removed. Turn fuse insert counter-clockwise until it comes out; it can then be pulled from the insert and a new one installed. CAUTION: Use only 3.2 Amp "Slow-blo," Type 3 AG fuse.

4. At least one white voice tab must be "on" before the treble keyboard or chord buttons will play.

5. The Foot Pedal must be depressed to bring up volume. (Master volume should be turned up.)

6. If all of the above have been checked and operation is still not normal (and you are sure all the tubes are in tight), there may be a faulty tube. Read the following pages which contain information on tube replacement or call your dealer for service.

7. The name plate containing serial number of your Cordovox is located on the back side of each case. Include serial number in any correspondence.

The tube farthest from the tuning coil (in the V-3 socket in the case of the F generator only) is locked to the second and produces the lowest tone of the keyboard. Thus, if the tube nearest the can (V-1) becomes faulty, not only the tones produced by it but also the lower octavely related tones will be faulty too.

Here's how to find a faulty generator tube. Turn on the Clarinet and the Foot Pedal to full volume. Play all the keys in succession starting at the lowest note on the keyboard—proceed upward listening carefully for the first defective tone. Be sure this is the highest defective tone on the keyboard.

To locate the faulty tube, refer to the keyboard chart (Figure 1) and determine in which of the three groups of keys the highest faulty tone is produced. If it is V-1, the tube is nearest to the metal can in that generator section. V-2 is in the middle of the group and V-3 (in the case of the F generator only) is farthest from the metal can.

NOTE: It is impossible to catalogue the many various effects which can result from a "defective" tube. The word "defective" merely indicates no sound at all or some sound other than that which should be obtained. For example, the tone could be off pitch or could even be an octave too high.

For example, let us assume that you have determined that the tube (V-2 socket) in the G generator is faulty. To check this, remove this tube and exchange it with the (V-2) tube. If the adjacent generator is operating properly, it can be used for testing. Now all G notes should operate properly, but the highest faulty tone will be in the generator section where the previously determined faulty tube has been placed. Remember, use either 6FA7 or 6X8 in V-1, and 6FH8 only in V-2 and V-3. 6X8 in V-4.

Hint: Sometimes a tube may produce a tone which plays quietly at all times even when no key is depressed. Determine the family of the "leaky" tone and pull out the generator tubes from this section one at a time, starting with the one farthest from the tuning coil. The first tube which silences the tone when removed, is the one that requires replacement.

You have now learned how to locate a faulty tube anywhere in the group of fifty-eight tubes in the tone generator chassis. If this method does not disclose a faulty tube in the generators, contact your dealer for service.

quality control section

Next, let us consider the Quality Control. This is to the right of the tone generators and to the right as you face the rear of the Cordovox. It contains six (6) tubes. The six tubes have a variety of functions. When one of these fails, substitutions can be made to locate the faulty tube. Several types of faults are covered below to help you find the defective tube.

group of notes

Depending upon the tabs used, if an entire keyboard does not respond or if a group of consecutive keys produces no tone or a defective tone, the faulty tube in all probability is in the sockets V-61, V-63, or V-64.

Temporarily substitute a new 12AX7 tube in V-61, V-63 or V-64 until the fault is corrected. The tube last removed is probably defective.

vibrato

If the vibrato becomes defective on all notes of the Cordovox, the offending tube could be V-62. It may be exchanged with V-61 for testing. Then, if faulty, it will produce certain defects on the keyboard and should be replaced.

If the vibrato is defective on only one family of tones (all F's or all G's), the tube in V-1 of that generator may be faulty. Exchange it with the tube in V-1 of another generator for testing. If the vibrato is still faulty, replace the tube.

noises, dead or weak (all tabs)

V-61 tube in the Quality Control is an amplifier for string tones but also is an amplifier for all treble and bass tones. Exchange this tube with V-62 and if the keyboard plays correctly, except for vibrato, the tube now in V-62 is defective.

amplifier-power supply chassis

The Amplifier-Power Supply Sections are incorporated in the tone cabinet; the tubes for these circuits are 7591 and 12AX7. A defective tube here will affect the entire Cordovox rather than any particular group or group of keys.

noises, dead or weak

To check 12AX7 replace it with a new 12AX7 tube. 7591's are the power output tubes. Since they work together, test these tubes by trying a new tube in each of these sockets.

1N1764 Diodes are used as a rectifier and since two of these are used in the instrument a test would have to be made with new diodes.

fuses blown

If the fuse blows, in all probability a diode is at fault. However, there is always the lesser possibility that either 7591 tube in the amplifier section could be causing the trouble.

PARTS LIST

This parts list contains a list of the commonly used parts found in all CORDOVOK instruments, tube type only.

This list does not contain such standard items as hardware that may be purchased locally.

PARTS ORDERING INSTRUCTIONS

All parts orders should include the following information:

1. Model and Serial Number
2. Part Number
3. A description of the part
4. Specify how you want the part shipped

In the event that you are unable to locate a part number, your order should include a complete description of the part together with the physical location of the part in the Instrument in order to avoid delays.

IMPORTANT

USE PART NUMBERS TO ENSURE
THE FASTEST POSSIBLE PRO-
CESSING OF YOUR ORDER.

MOOG MUSIC INC.
2500 WALDEN AVENUE
BUFFALO, NEW YORK 14225
(716) 681-7242

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PARTS LIST

PART	DESCRIPTION	PART NUMBER
<u>GENERATOR ASSEMBLY</u>		
Capacitor	Disc Ceramic .0047 mfd. 500v 10%.....	947-008119-24
Capacitor	Disc Ceramic .0068 mfd. 500v 10%.....	947-008119-26
Capacitor	Disc Ceramic .01 mfd. 500v 10%.....	947-008119-32
Capacitor	Disc Ceramic 360 mmfd. 500v 10%.....	947-008119-11
Capacitor	Disc Ceramic 750 mmfd. 500v 10%.....	947-008119-13
Capacitor	Disc Ceramic .0012 mfd.....	947-008119-17
Capacitor	Disc Ceramic .0015 mfd.....	947-008119-19
Capacitor	Disc Ceramic .0022 mfd.....	947-008119-22
Capacitor	Electolytic 15 mfd. 50v.....	945-008114
Capacitor	Mylar .22 mfd. 400v 10%.....	946-005409
Capacitor	Mylar .015 mfd. 400v 10%.....	946-005409-1
Capacitor	Mylar .015 mfd. 400v 10%.....	946-005872-4
Capacitor	Polystyrene .015 mfd. 200v 10%.....	946-008492-3
Capacitor	Polystyrene .018 mfd. 200v 10%.....	946-008492-4
Capacitor	Polystyrene .022 mfd. 200v 10%.....	946-008492-5
Capacitor	Polystyrene .027 mfd. 200v 10%.....	946-008492-6
Capacitor	Polystyrene .033 mfd. 200v 10%.....	946-008492-7
Cable	Firing.....	986-008144
Light	Indicator Assembly.....	939-008182
Knob	Control Volume Mike #1.....	915-008089
Knob	Control Volume Mike #2.....	915-008089-1
Knob	Control Volume.....	915-008089-2
Coil	Doubler.....	953-006121
Network	Firing (A# to A).....	949-008138
Network	Firing (F to A).....	949-008139
Network	Firing (A# to E).....	949-008140
Network	(Bass Keying).....	949-008181
Network	Filter 150 cycle.....	949-005789-1
Network	Filter 850 cycle.....	949-005789-6
Network	Filter 1200 cycle.....	949-005789-7
Network	Filter 1700 cycle.....	949-005789-8
Network	Divider.....	949-008115
Network	Divider.....	949-008115-1
Network	Divider.....	949-008115-2
Network	Solo Firing.....	949-006706-1
Lamp	#50 GE.....	
Lamp	Neon GE #NE23.....	939-007221
Potentiometer	20K.....	925-008171
Potentiometer	1 Meg.....	925-008171-1
Resistor	Variable Dual.....	925-006237
Socket	6 Pin.....	906-008123
Socket	Standoff (100) contact.....	973-008167
Sustain	Bass Relay.....	921-008172
Sustain	Relay.....	921-006605
Switch	A.C.....	960-008141
Resistor	1500 Ohms 5W 10%.....	924-006811

PARTS LIST

PART	DESCRIPTION	PART NUMBER
<u>GENERATOR ASSEMBLY</u>		
Tubes	.....	6FH8
Tubes	.....	6X8
Tubes	.....	12AU7
Tubes	.....	12AX7
<u>KEYSWITCH ASSEMBLY</u>		
Spring	Contact.....	917-008081
<u>TABSWITCH ASSEMBLY</u>		
Spring	Contact.....	917-008130
Spring	Toggle.....	975-008073
Pusher	.....	964-008070
<u>AMPLIFIER CHASSIS</u>		
Capacitor	Electrolytic 50 mfd. 50v.....	945-005501-1
Capacitor	Electrolytic 30 mfd. 450v;20 mfd 400v;150/250v	945-007306
Capacitor	Electrolytic 150 mfd 250v.....	945-007308
Capacitor	Electrolytic 20/450,50/250,80/250,50/100...	945-008026
Cord	Power.....	989-008717
Diode	Silicon.....	919-007109
Diode	Silicon.....	919-007776
Fuse	Slo-Blo 3.2 Amp.....	939-008116
Fuse	Holder.....	906-008121
LDR	Light Dependent Resistor.....	LDR 500
Resistor	100-100 Ohm 7W.....	924-006811-6
Resistor	1000 Ohm 5W.....	924-006811-10
Resistor	100 Ohm 5W.....	924-006811-13
Resistor	880 Ohm 10W.....	924-006811-18
Resistor	14K Ohm 10W.....	924-006811-19
Resistor	3K Ohm 5W.....	924-006811-28
Resistor	Mtg. Bracket.....	967-006812
Resistor	Mtg. Bracket.....	967-006814
Socket	2 Pin Speaker.....	910-008107
Speaker	12".....	985-006714
Transformer	Output.....	955-006417
Transformer	Power.....	954-008023
Cable	Power & Signal Assembly.....	994-003653
Cable	Power & Signal.....	986-008177
Plug	7 Pin.....	910-007353
Plug	9 Pin.....	910-005110
Socket	7 Pin.....	906-007348
Socket	9 Pin.....	906-002116

PARTS LIST

PART	DESCRIPTION	PART NUMBER
<u>SWELL PEDAL</u>		
Bearing	Nylon.....	997-005023
Bearing	Rod.....	974-007325
Cable	Swell Pedal.....	986-008184
Capacitor	Strip (Copper Alloy).....	914-007225
Capacitor	Ceramic Strip.....	959-008052
Mat	Swell Pedal.....	959-008052
Spring	Swell.....	975-007294
Socket	Cap Type (18 contacts).....	906-008122
Switch	Glide.....	960-008102

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