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Technical Document Distribution

Brand:	Wurlitzer
Model	5000 Side Man
Product:	Tube/Motorized Rhythm Unit
Description:	Schematic

Musicparts Document Number: 51329 TechTips: No Pages: 8 Dated: 1960

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NOTE: Large original over-sized drawings will need to be taped together. We feel this is better than reducing them and losing the fine details.

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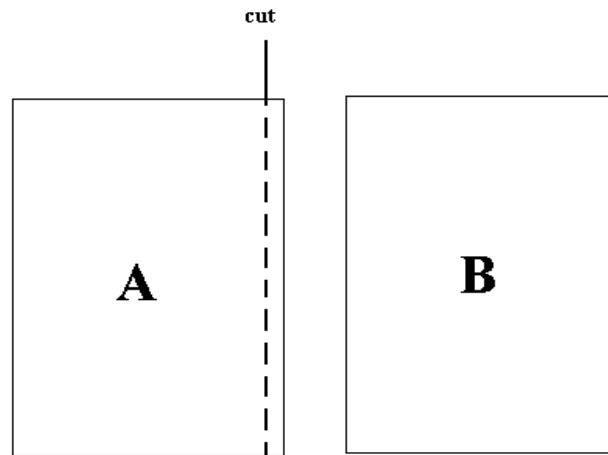
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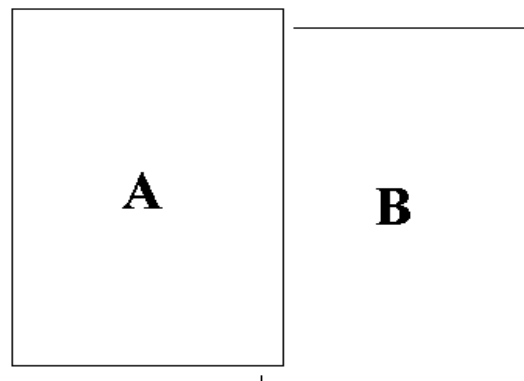
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Two Sheet Pasteup Guide

11x17" paper size



It's ok to slightly cut into the black print, as documents contain an intentional extended overlapping printed area.



Only one trim cut is needed, then overlay as shown and tape.

MODEL 5000 SIDE MAN CONTROLS

TEMPO LIGHT

This 2-section flasher light is a visual indicator to allow the player to get the "feel" of the rhythm and its speed without sound being heard:

1. The *Left Side* of the light flashes to indicate the first beat or start of a rhythm pattern.
 2. The *Right Side* of the light flashes on the accented (Bass Drum) beats within the pattern.
- This light enables the player to begin the Side Man rhythm as he starts playing or to add it, at the right beat, while playing.

VOLUME DIAL

This controls the over-all volume of the Side Man from silence (0) to full volume (10).

RHYTHM START/STOP CONTROL

This control affects only the dialed rhythm patterns (not the effects available from the push buttons). When this control is at the "Stop" position, no sound will be heard. It must be at the "Start" position for dialed rhythms to become audible. This control must also be at the "Start" position when an accessory remote "start/stop" foot or hand control is used.

RHYTHM PATTERN DIAL

Set the pointer of this dial to the desired rhythm pattern and the Side Man does the rest—it selects the proper instrumental sounds and places them within the selected rhythm pattern. To change from one rhythm pattern to another, simply turn the pointer in either direction.

FOX TROT BEAT SELECTOR

After you have set the rhythm pattern pointer to Fox Trot (6 o'clock position), you can change from a 2-beat to a 4-beat Fox Trot pattern with this switch. These basic beats are from the Bass Drum effect and are heard on each beat of the 4-beat pattern and on alternate beats of the 2-beat (cut-time) pattern.

FOX TROT VARIATIONS

These "Blocks" and "Cymbals" controls make possible 72 variations of the Fox Trot beats. To the basic (Bass Drum) 2- and 4-beat Fox Trot patterns, you can add the sound of the Blocks in 5 variations within the patterns themselves—see "Blocks" positions A-B-C-D-E. The same holds true for adding Cymbals to the Fox Trot patterns by setting the "Cymbals" arrow to the various positions. The Blocks and Cymbals variations may be used together in any combination or alone (note the "Off" position of each). Naturally, the "Off" position of each dial eliminates the sound of the Blocks and/or Cymbals from the pattern.

ON-OFF POWER SWITCH

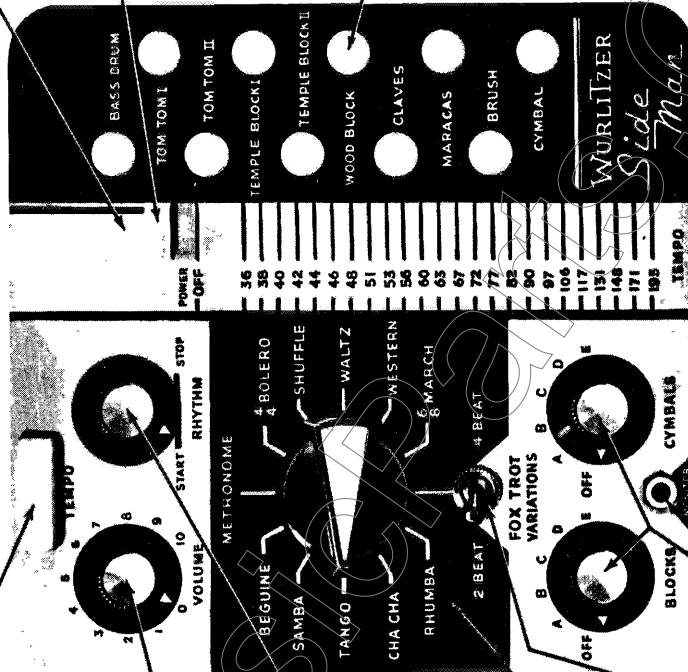
The Tempo lever serves as an on/off switch for the Side Man. When pushed all the way to the top (Power Off position, as marked), all power is off. To turn on the power, pull the lever down to the "36" position—allow a few seconds for the Side Man to warm up.

TEMPO LEVER

This controls the speed (Tempo) at which the dialed rhythm patterns sound. This speed is based on a specific number of beats per minute, from slow 36 to fast 195. (Speeding up or slowing down does not alter the pattern or change the sound.) Tempo guides for cut-out are included at right—one to be placed over the Side Man dial panel and one for your music desk. These will prove a handy reference for the recommended tempos of each dialed automatic rhythm pattern.

PUSH BUTTONS

With these 10 buttons, you may create your own rhythm patterns . . . Each button is labeled with its respective voice. The buttons may be played alone or in conjunction with a dialed rhythm pattern. Note that Maracas, Brush and Cymbal will sound continuously if the button is held down while the other 7 buttons will give only a one-stroke sound when a button is depressed.



PLACING THE SIDE MAN

The Side Man may be placed in any position, at any angle, at either side of any instrument. Just plug the power cord into a conventional electric outlet, 110- to 120-Volt A.C. 60-cycle, and the Side Man is ready to play.

ACCESSORY CONTROLS

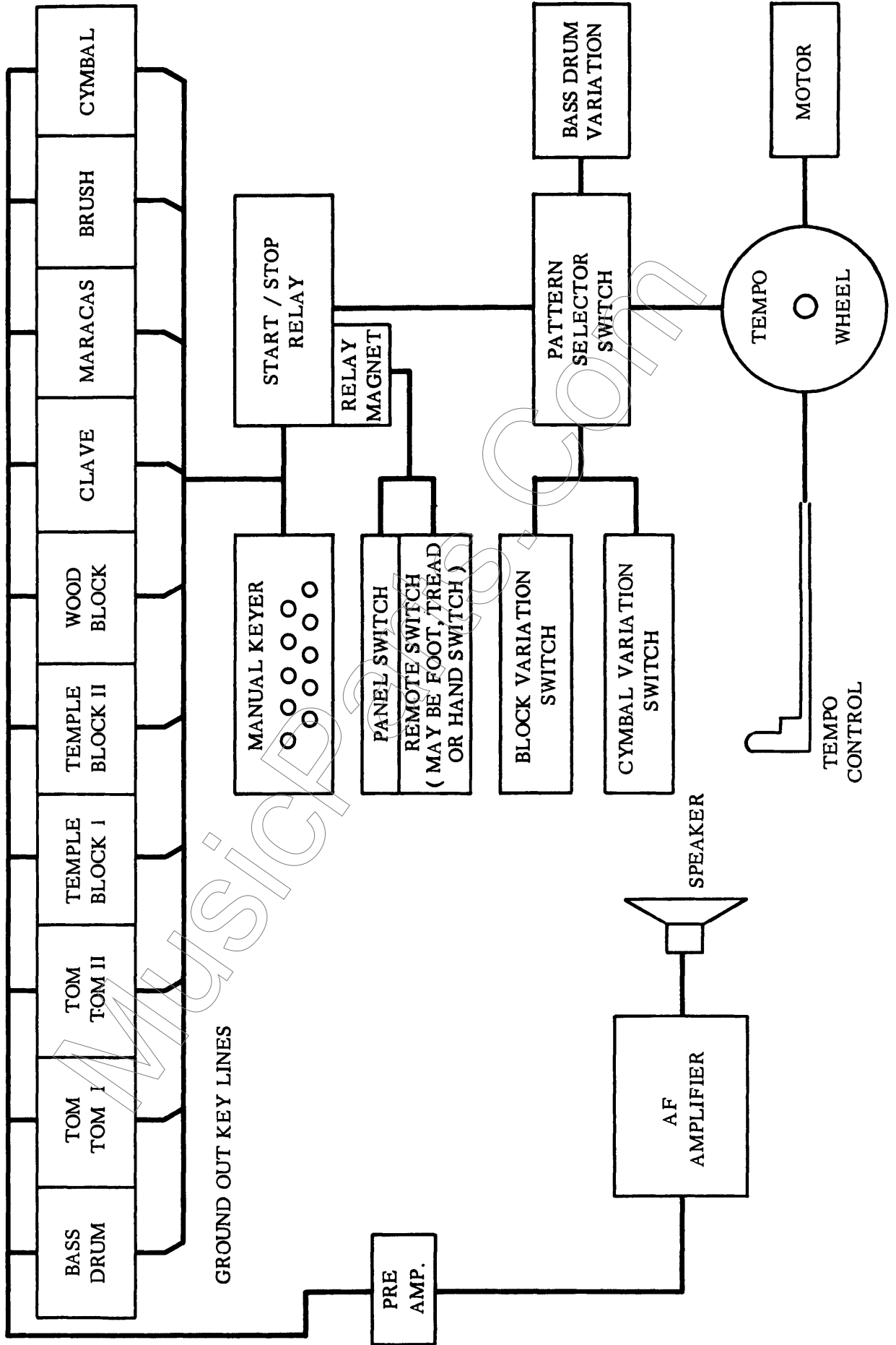
1. **Organ Foot Control**—A foot "kick" switch to be placed on the organ volume pedal. When Rhythm Control is at Start, depressing the switch sideways will stop the Side Man automatic rhythm. Releasing the pressure will start it again.
2. **Piano Foot Control**—A foot control to be placed near the piano pedals, is available for stopping and/or starting the Side Man sound. (Rhythm control must be at Start position.)
3. **Hand Control**—for teachers who will use Side Man in group or individual instruction—dance, instrumental, etc. Ample cable for distant remote control is furnished. (Rhythm control must be at Start position.)

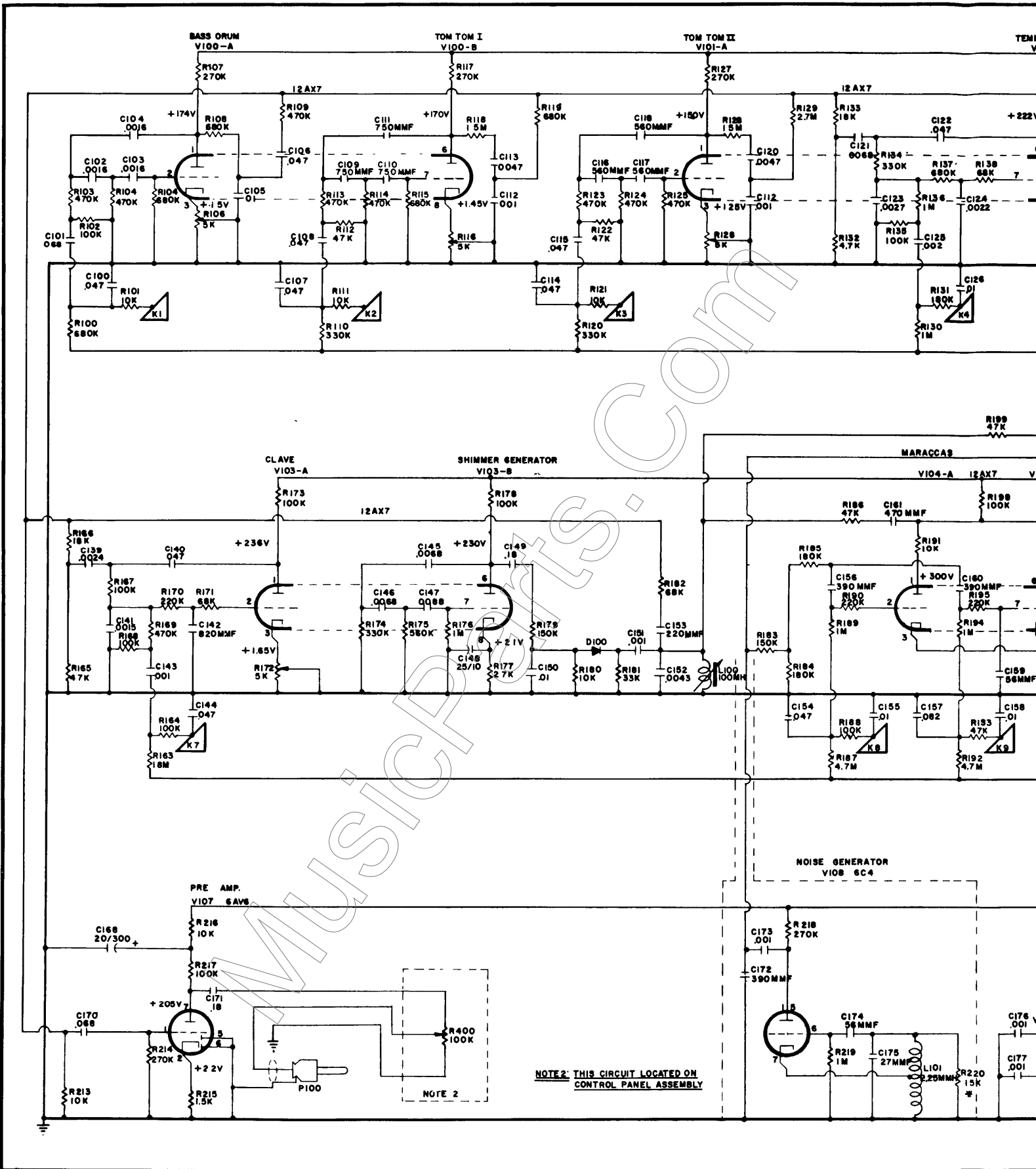
ACCESSORY SOCKET & FUSE LOCATION

On the underside of the Side Man cabinet is a socket for all accessory equipment—remote start/stop switches and auxiliary speakers. The 5-Amp. Slo-Blo fuse is easily reached on the underside of the cabinet base. No tools are needed for replacement.

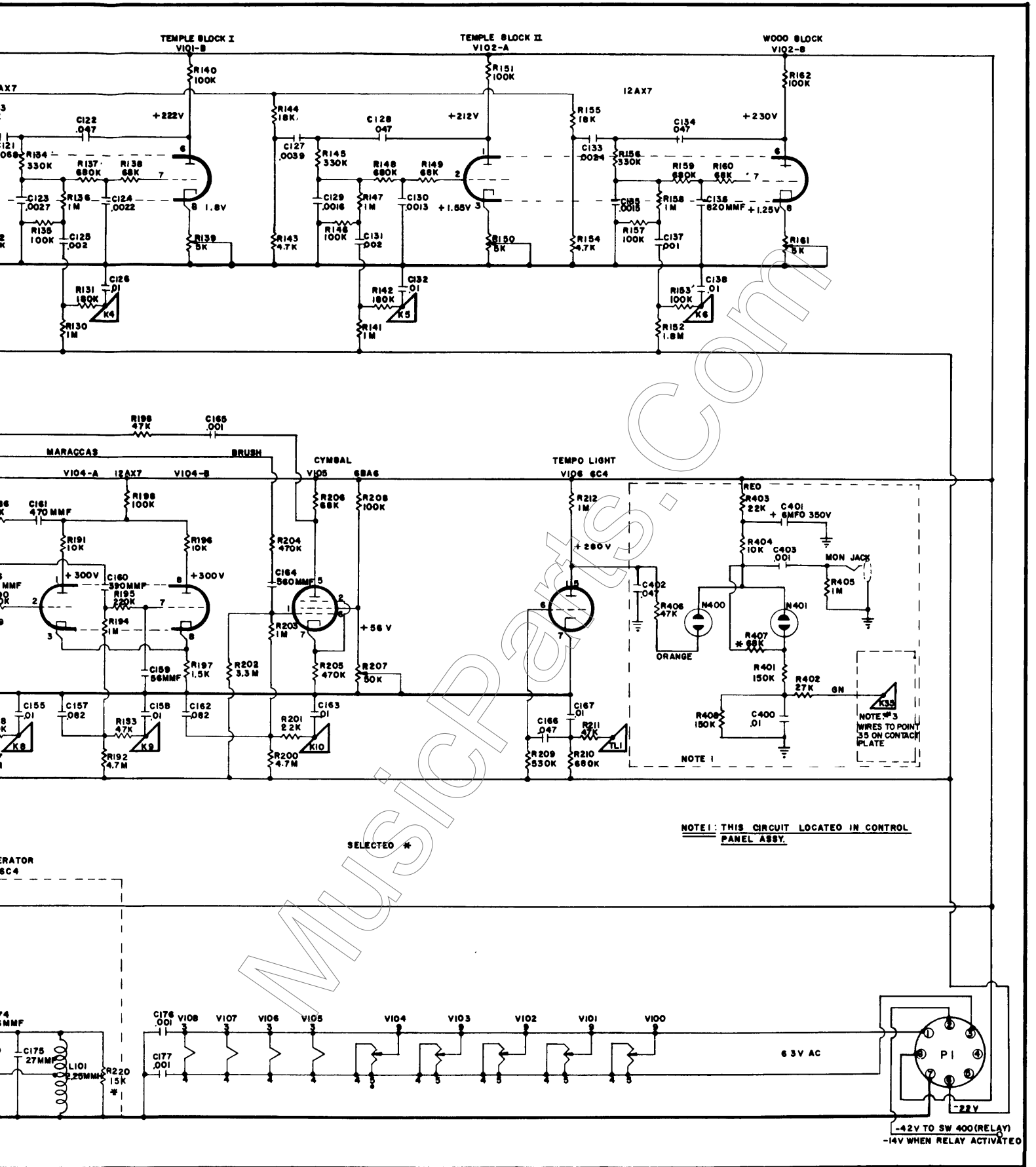
BLOCK DIAGRAM MODEL 5000 SIDE MAN

STONE GENERATOR





NOTE 2: THIS CIRCUIT LOCATED ON CONTROL PANEL ASSEMBLY

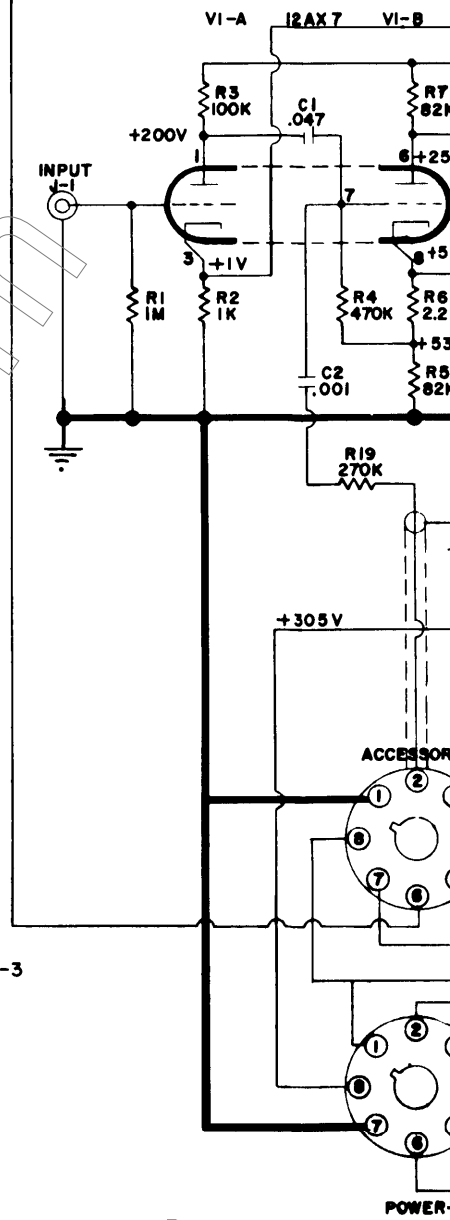
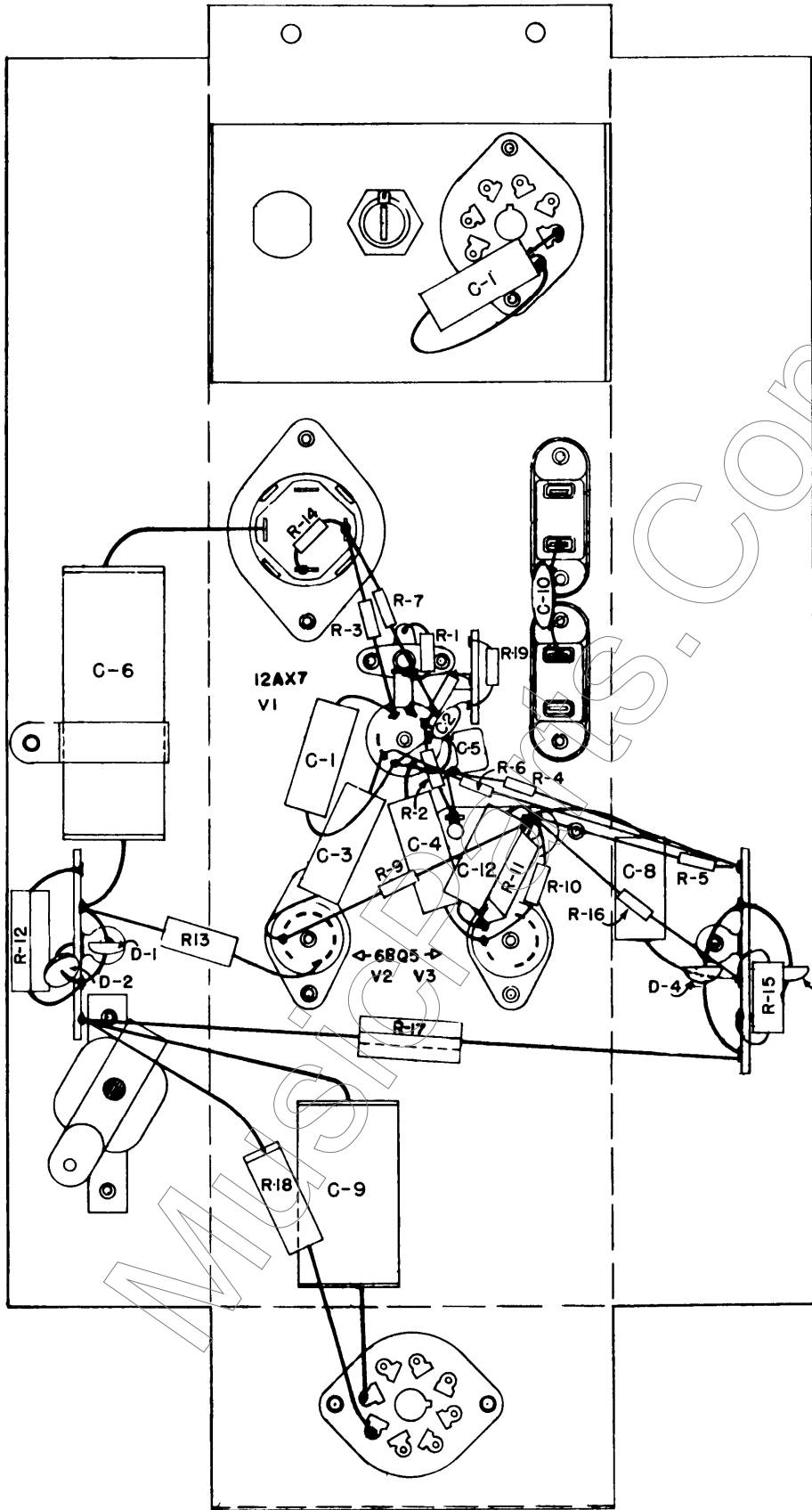


THE WURLITZER COMPANY DEKALB DIVISION - DEKALB, ILLINOIS

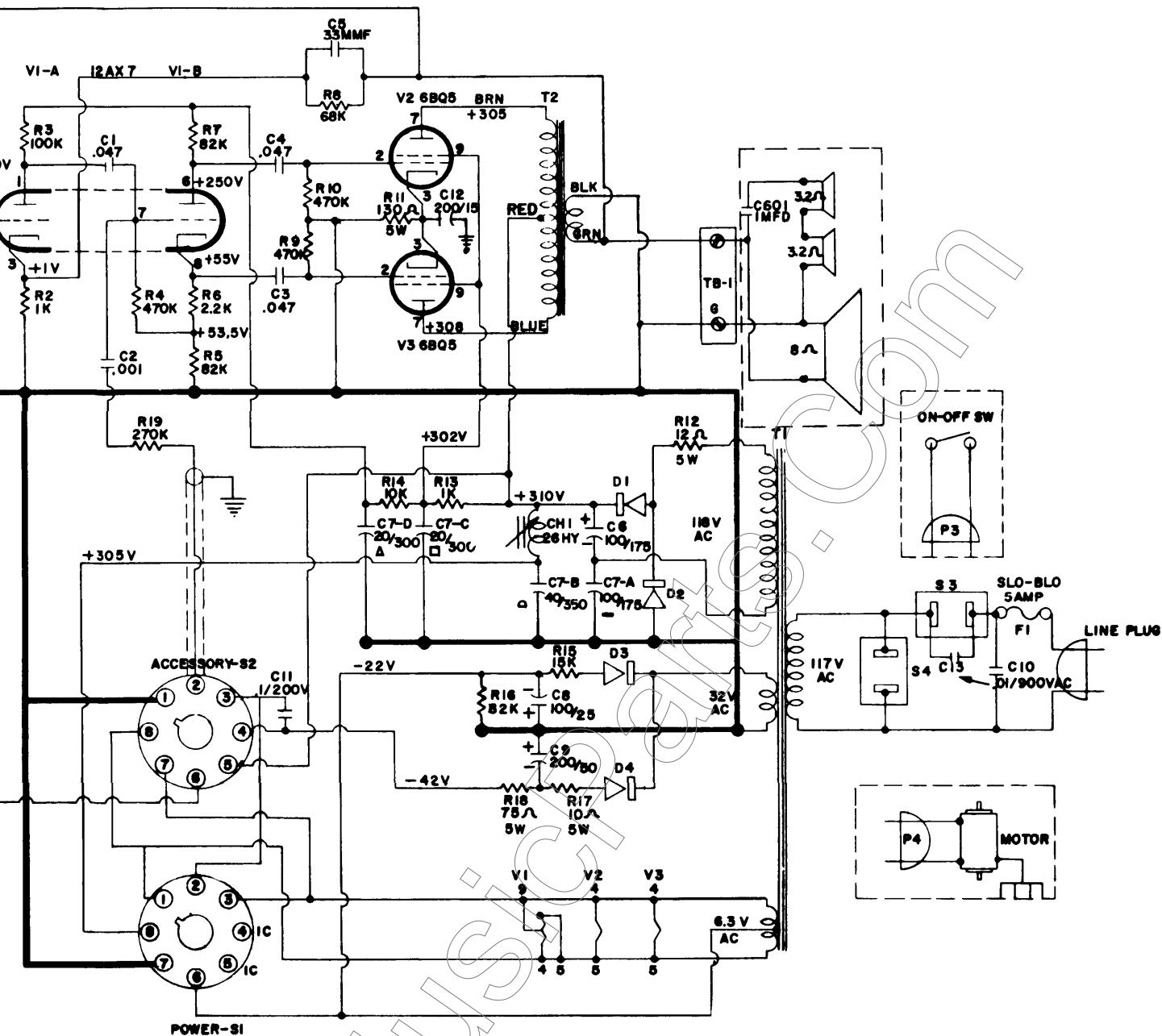
MODEL 5000 SIDE MAN

TITLE GENERATOR SCHEMATIC PART No. 501648

STARTING SERIAL No. 320000 ISSUE 1 DATE 5/1/60



NOTE
 IC-
 US-
 AL-
 UN-
 AL-
 UN-
 VO-
 TY-



NOTE:

IC—INTERNAL CIRCUIT CONNECTION,
 USED AS TIE POINT ONLY.
 ALL RESISTORS 1/2 WATT ± 10%
 UNLESS OTHERWISE SPECIFIED.
 ALL CAPACITORS 400V ± 10%
 UNLESS OTHERWISE SPECIFIED.
 VOLTAGES INDICATED ARE
 TYPICAL VALUES.

THE WURLITZER COMPANY DE KALB DIVISION - DE KALB, ILLINOIS
MODEL 5000 SIDE MAN

TITLE AMPLIFIER SCHEMATIC PART No. 501649

STARTING SERIAL No. 320000 ISSUE 1 DATE 5/1/60

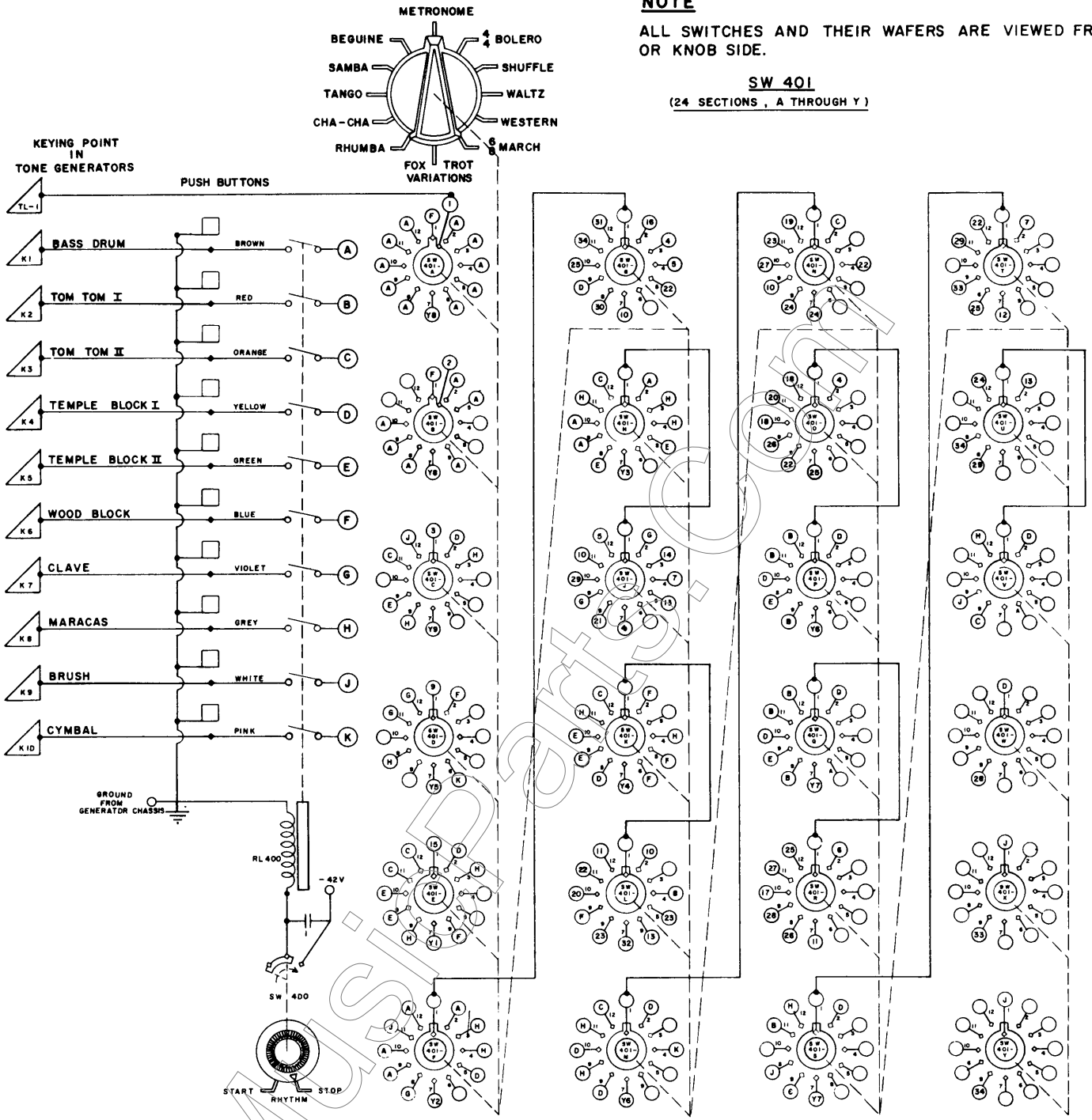
MODEL 5000 SIDE MAN

NOTE

ALL SWITCHES AND THEIR WAFERS ARE VIEWED FROM THE OR KNOB SIDE.

SW 401

(24 SECTIONS, A THROUGH Y)



RHUMBA	A-1-2 B-22-26 C-25-29 D-23-24-28 E-21 G-30 H-3-15 J-33-34
CHA-CHA	A-D-6-1-2 E-F-3-15-26-28 H-9-10 J-33-34
TANGO	A-1-2-25-29 D-16-17-27 E-15-20
SAMBA	A-1 B-20-27-29 C-3-15 G-9 H-10-22-23 J-34
BEGUINE	A-1-31 B-18-25 C-5-11-15-19 G-9 H-22-24 J-3

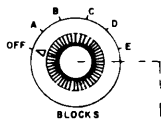
METRONOME	F-1-2
4 BOLERO	A-G-1-2-16 C-D-3-4-6-7-13-15 F-9-10
SHUFFLE	A-1-2 H-3-4-14-15
WALTZ	A-1 H-5-7-8 K-22
WESTERN	A-1 D-22 E-13 F-23
6 MARCH	A-1-2 F-13-15 K-9
FOX TROT	Y1-15 Y2-10 Y3-4 Y4-32 Y5-9 Y6-24-25 Y7-11-12 Y8-1-2 Y9-3

SWITCHING SCHEDULE

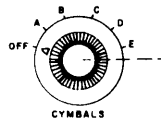
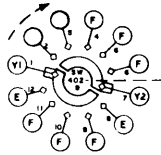
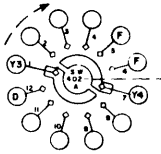
BLOCKS	A E-Y2 B F-Y2 C F-Y1-Y2 D F-Y1-Y2-Y3 E E-Y2 F-Y1-Y3 D-Y4
CYMBALS	A H-Y6 B K-Y6 C H-Y5 K-Y6 D K-Y5 K-Y6 E K-Y5 J-Y6 H-Y7
2. BEAT	A-Y8
4 BEAT	A-Y8-Y9

RYTHM SWITCHING

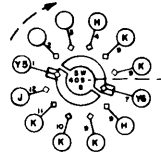
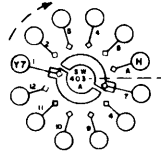
RE VIEWED FROM THE TOP,



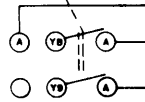
SW 402
2 SECTIONS, A THRU B



SW 403
2 SECTIONS, A THRU B

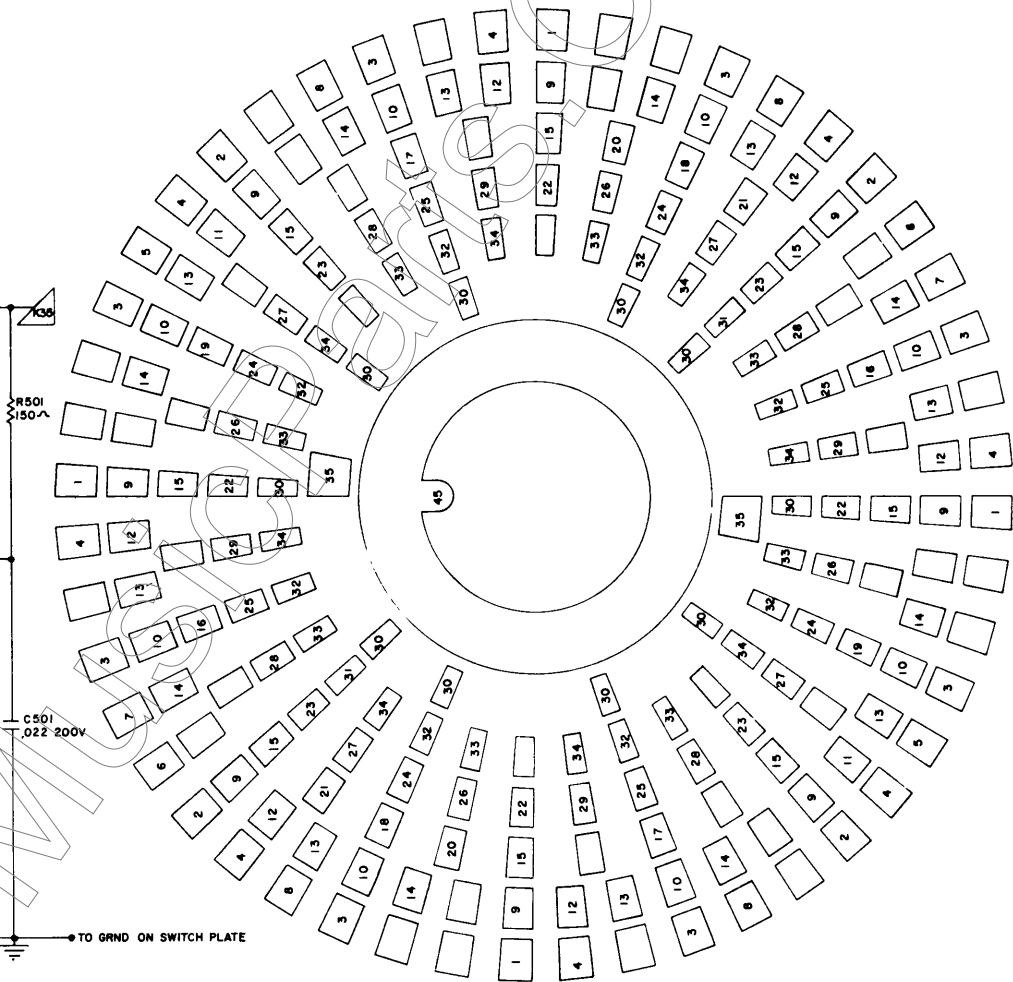


SW 404



NOTE
ALL POINTS WITH COMMON NUMBERS CONNECT.

BROWN	DK BLUE	BROWN
1	16	31
RED	VIOLET	RED
2	17	32
ORANGE	GRAY	ORANGE
3	18	33
YELLOW	WHITE	YELLOW
4	19	34
DK GREEN	PINK	DK GREEN
5	20	35
DK BLUE	BROWN	
6	21	36
VIOLET	RED	
7	22	37
8	ORANGE	
	23	38
WHITE	YELLOW	
9	24	39
PINK	DK GREEN	
10	25	40
BROWN	DK BLUE	
11	26	41
RED	VIOLET	
12	27	42
ORANGE	GRAY	
13	28	43
YELLOW	WHITE	
14	29	44
DK GREEN	PINK	BLACK 22 GA
15	30	45



NOTE

○ ALL POINTS WITH COMMON LETTERS AND/OR NUMBERS ARE WIRED TOGETHER. NUMBERED POINTS WIRE IN A CABLE TO CORRESPONDING NUMBERS ON CONTACT PLATE.

(ADDITIONAL CONTROL PANEL CIRCUITRY SHOWN ON GENERATOR SCHEMATIC UNDER NOTE 1, NOTE 2.)