TONE GENERATOR ASSEMBLY

FREQUENCY NUMBERS 18 TO 91 USED ON MANUALS

GENERATORS 49-91 USE THIS CIRCUIT

GENERATORS 44-48 USE THIS CIRCUIT

GENERATORS 18-43 USE THIS CIRCUIT

SOLO UPPER MANUALS DRAWBARS

LOWER MANUAL DRAWBARS

T1 MATCHING TRANSFORMER

T2 MATCHING TRANSFORMER

"VIBRATO SOLO MANUAL" OFF ON

"VIBRATO LOWER MANUAL" OFF ON

NON VIBRATO CHANNEL INPUT

VIBRATO CHANNEL INPUT

UPPER MANUAL BUSBARS

LOWER MANUAL BUSBARS

TO GENERATOR TERMINALS SEE WIRING CHART FIG 9

SET OF NINE CONTACTS UNDER TYPICAL PLAYING KEY

KEY CONTACT RESISTANCE WIRES ALL 16 OHMS

MANUAL AMPLIFIER

V2 6AU6

SELECTED AT FACTORY TO BALANCE CHANNELS

V1 6AU6

V3A 12AU7

INTERMEDIATE AMPLIFIER

V4A 12AX7

OUTPUT AMPLIFIER

EXPRESSION CONTROL LOUD SOFT

"RADIO PHONO"

V4B 12AX7

V3B 12AU7

V6 6V6

V5 6V6

T3

SPEAKER VOICE COIL 8 OHMS

AMPLIFIER CODE G AND ABOVE - OUTPUT TAP OMITTED.
CODE H AND ABOVE - C3 ADDED
CODE J AND ABOVE - P4 SPEAKER

PERCUSSION AMPLIFIER

V7 6C4

V9 12AU7 200VT6

V9 12AU7

SELECTED AT FACTORY TO BALANCE CHANNELS

V8 6C4

"PERCUSSION" "OFF" "ON"

"PERCUSSION HARMONIC SELECTOR" "THIRD" "SECOND"

"PERCUSSION CUT OFF"

"PERCUSSION DECAY" SLOW FAST

"PERCUSSION VOLUME" SOFT NORMAL

PEDAL SIGNAL

VIBRATO SIGNAL

PERCUSSION SIGNAL

"AMOUNT OF VIBRATO"

SCANNER

"VOLUME" "NORMAL" "SOFT"

"SMALL" "NORMAL"

VIBRATO LINE BOX TERMINALS

"VIBRATO CHORUS" "NORMAL VIBRATO"

VIBRATO PHASE SHIFT LINE

PEDAL AMPLIFIER

GENERATOR OUTPUT TERMINALS

PEDAL CABLE

FREQUENCY NUMBERS 1 TO 12 USED ON PEDALS

PEDAL DRAWBAR

NO PEDAL PRESSED 0V
ANY PEDAL PRESSED 1V

NO PEDAL PRESSED 290V
ANY PEDAL PRESSED 100V

V10 6BA6

PEDAL CUTOFF

"SLOW" "NORMAL" "FAST" PEDAL ATTACK

"OFF" "ON" PEDAL DECAY

PEDAL SUSTAINING CONTROL

PEDAL KEYING CONTACT CLOSES WHEN ANY PEDAL IS PRESSED (AFTER PEDAL SIGNAL CONTACT CLOSES) AND OPENS WHEN PEDAL IS RELEASED

PEDAL SIGNAL CONTACT OF LAST PEDAL PRESSED REMAINS OPEN

POWER SUPPLY

HEATER RESISTOR (IF USED) R91 4500 (18000 FOR 234V)

POWER TRANSFORMER T7

6.0V HEATERS 140 MA

"RUN" SWITCH OFF ON

"START" SWITCH

STARTING MOTOR

SYNCHRONOUS MOTOR

V11 5U4

320V

320V.

5V.

ALL D.C. VOLTAGES MEASURED WITH 20,000 OHMS-PER-VOLT METER, AND ALL CONTROL TABLETS TILTING TOWARD FRONT OF CONSOLE.

TOP VIEW OF AMPLIFIER

T7 C62 T3 C14 C63 C65 C66 EXPRESSION CONTROL T5 T4 T6 V11 V10 V6 V5 V3 V4 V2 V1 V8 V7 V9

SCHEMATIC DIAGRAM MODEL M-3

P4 SPEAKER - APPROX. NO. 109466 AND ABOVE

SCHEMATIC DIAGRAM
MODEL M-3 - 109466 AND ABOVE
FIGURE 44B