

**SCHEMATIC DIAGRAMS
MOD.**

Sprinter 61

SECOND EDITION

ELECTRONIC ORGAN

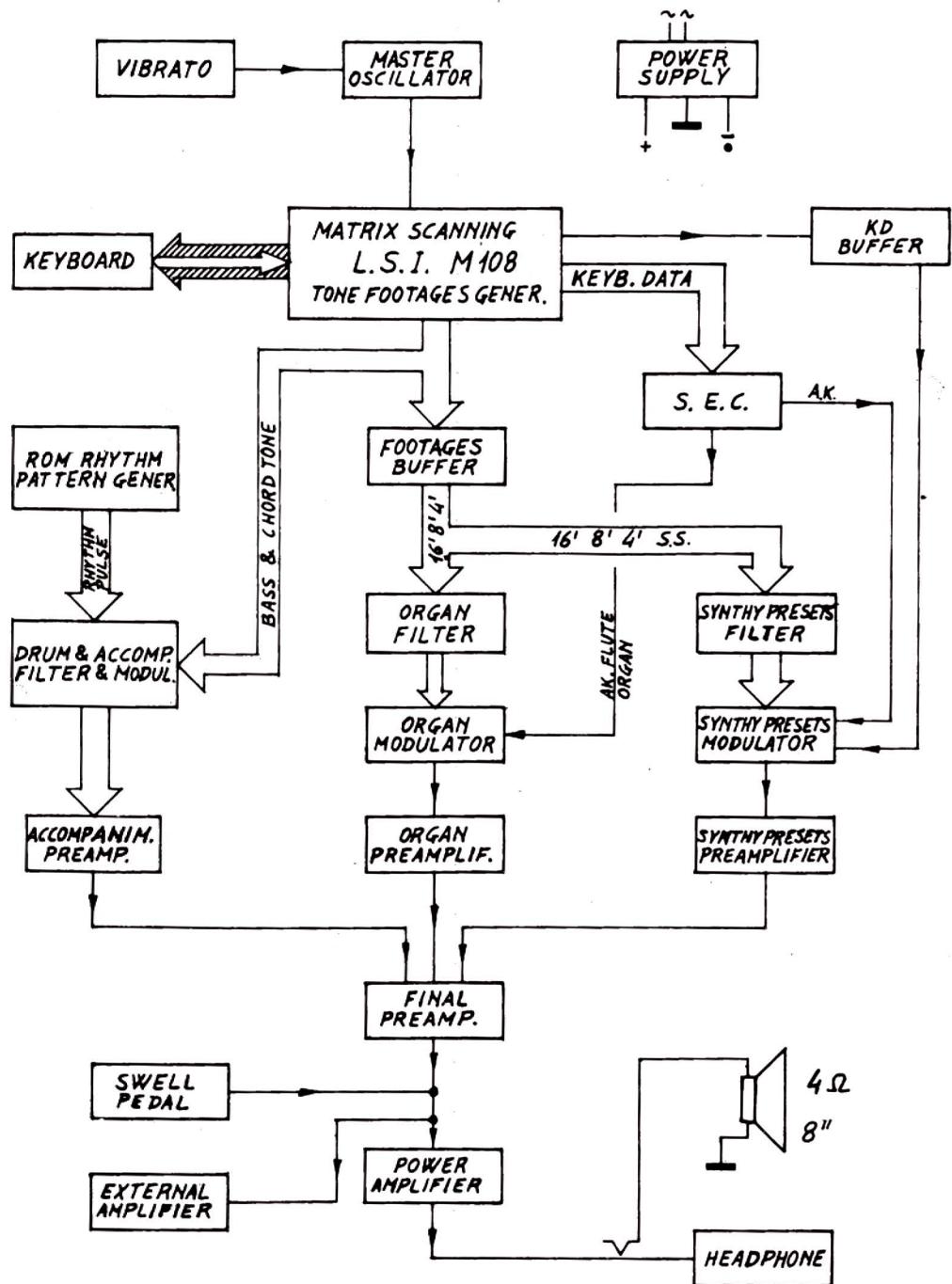


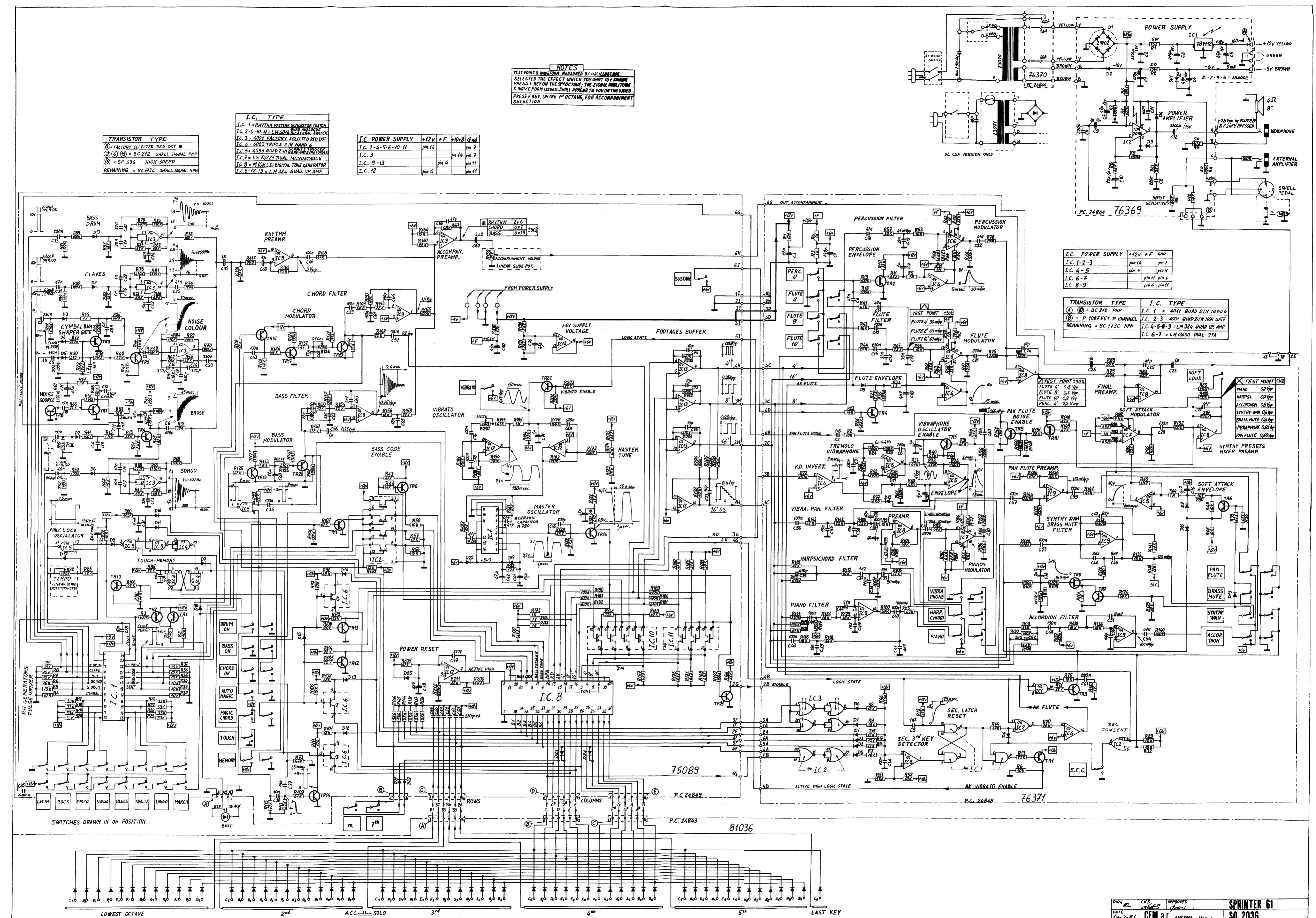
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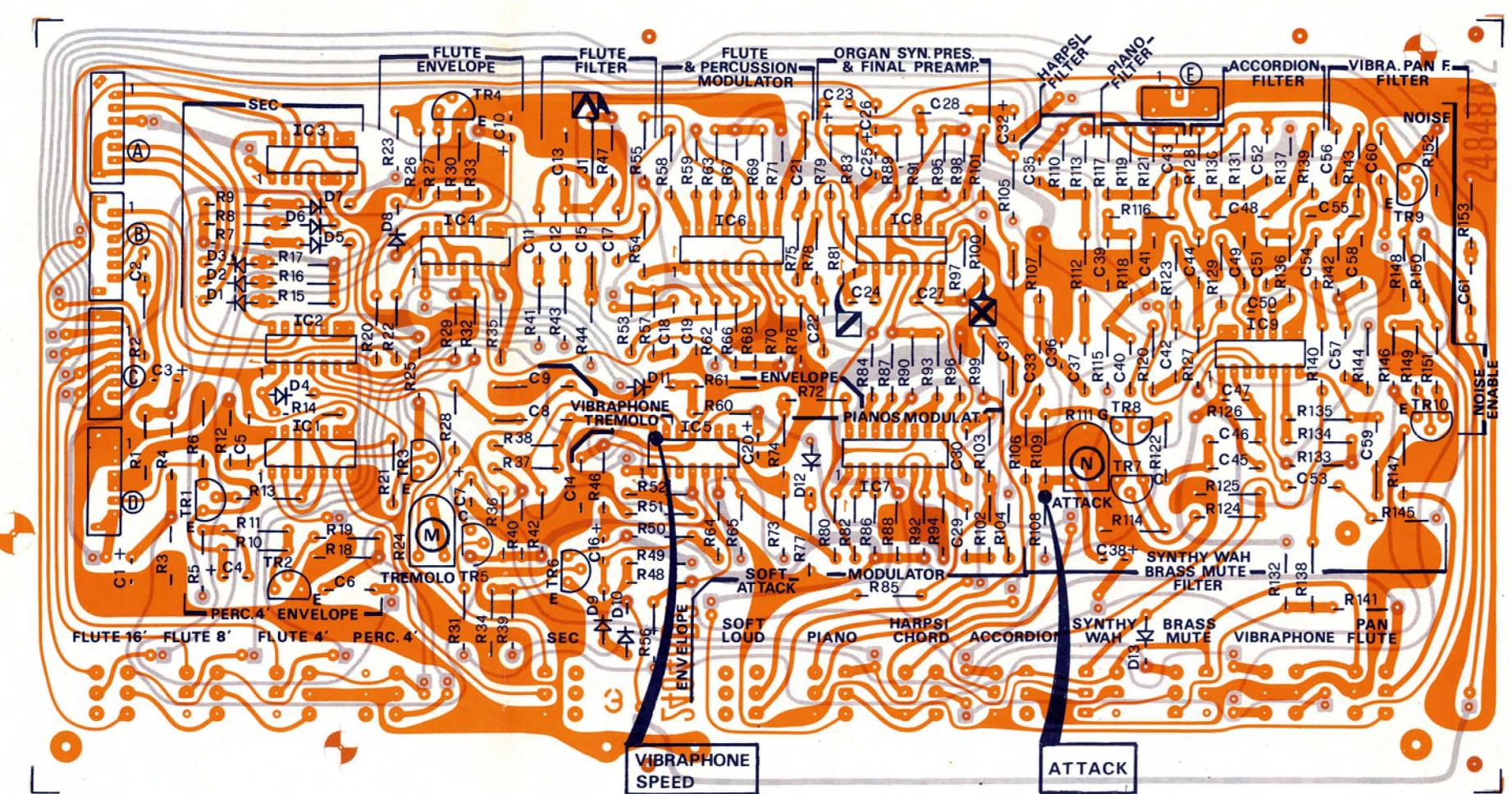
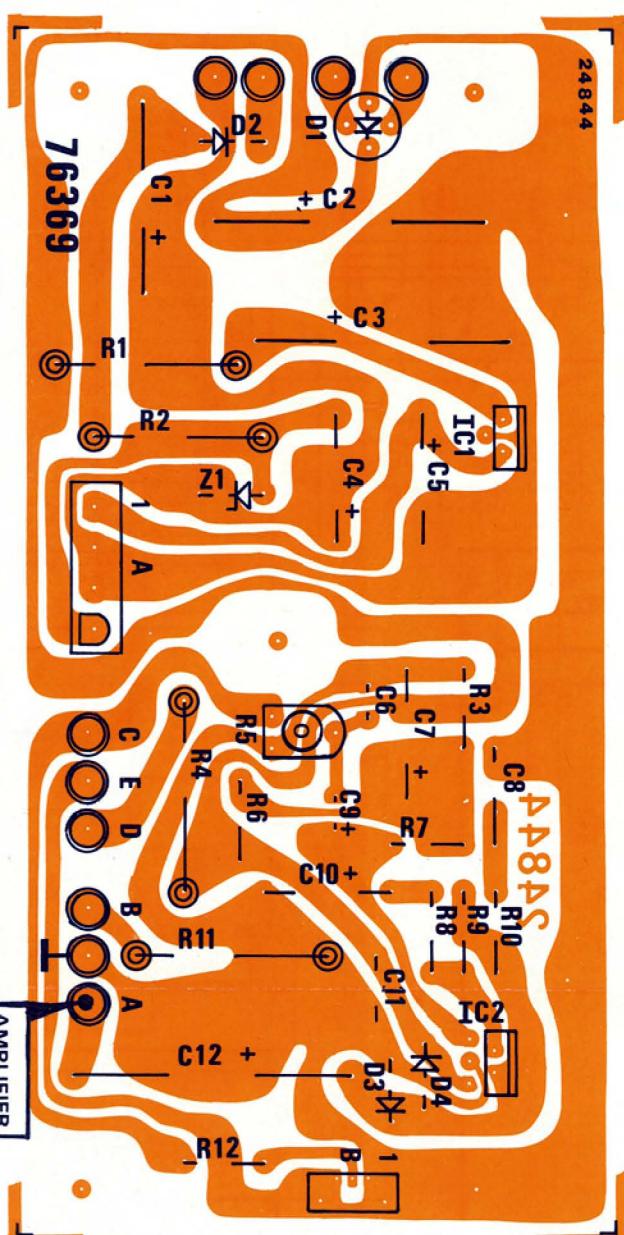
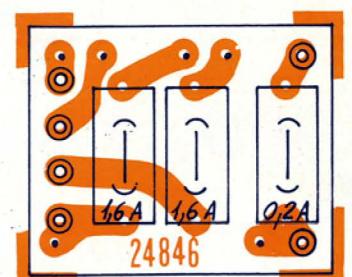
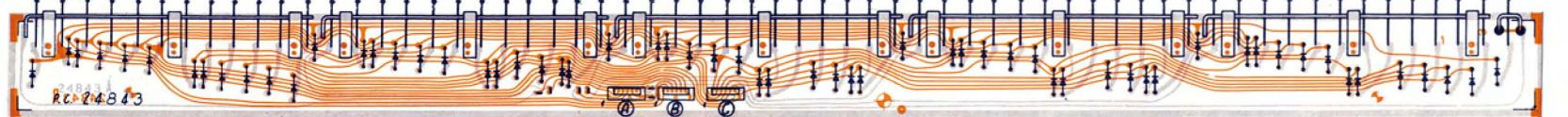
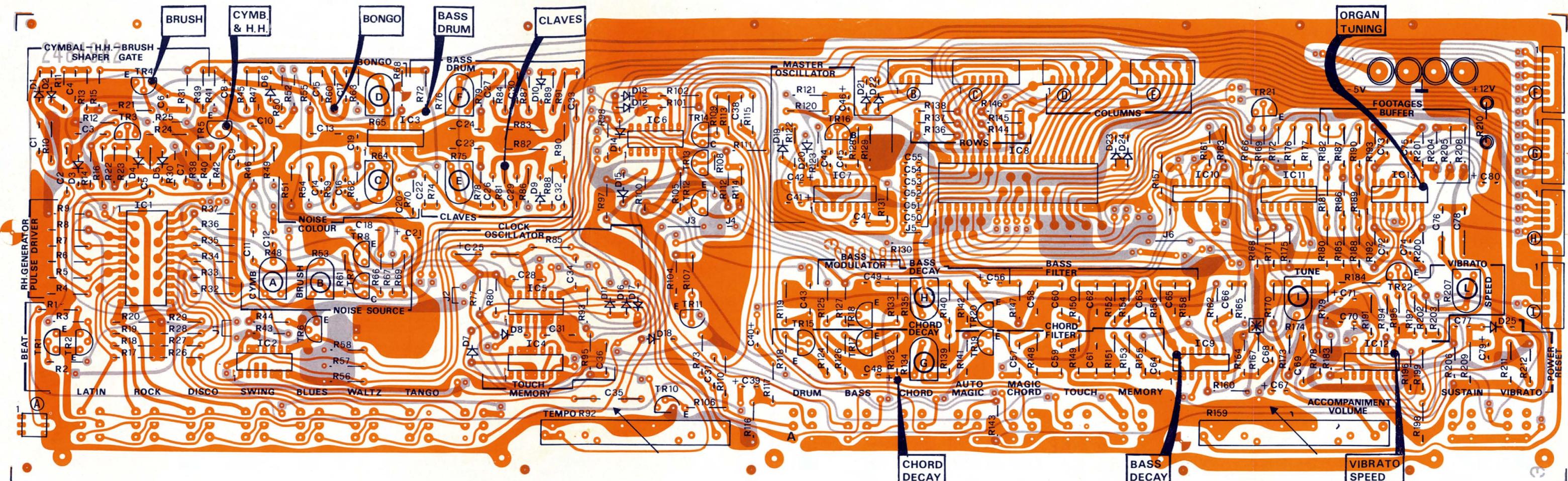


MONDAINO · FO · ITALY

BLOCK DIAGRAM







PART LIST «SPRINTER 61»

| MISCELLANEOUS | | RHYTHM & FILTER |
|-------------------------------------|-------------|----------------------------|
| Black frame | 15417 | 82047 |
| Cheek block | 15419 | 76368 |
| Loudspeaker, 8'', 4 ohm | 22064 | 76412 |
| Leg kit | 19147/19148 | 7191 |
| Knob for slider pot. | 15406 | 7206 |
| Switch knob, orange | 15407 | 7244 |
| Switch knob, grey | 15408 | 7331 |
| Switch knob, light-blue | 15409 | 7952 |
| Switch knob, ivory | 15410 | 7903 |
| Switch knob, red | 15411 | 14444 |
| Switch knob, black | 15412 | 14445 |
| Switch knob, green | 15413 | 14446 |
| Pushbutton, 2 keys, red | 14449 | 14447 |
| Black cover, printed | 15418 | 8103 |
| Music stand | 17458 | 9271 |
| KEYBOARD | | Transistor, PNP, (BC 212) |
| Keyboard assy | 72055 | 9193 |
| Mechanical part only | 80024 | 9401 |
| Sharp key, black | 15999 | 9305 |
| Natural key, white | 15998 | 9856 |
| Spring actuator | 15225 | 10014 |
| Spring for white key | 16002 | 10015 |
| Spring for black key | 16001 | 10505 |
| P.C. Board, 24845 assy | 81035 | 10564 |
| Diode, Si, signal (FDH999) | 8103 | 10056 |
| Bus bar, L, silvered | 16086 | 10030 |
| Bus bar, U, silvered | 16085 | 10029 |
| Contact spring | 16055 | 10518 |
| | | 4093, quad 2-input NAND |
| POWER SUPPLY & AMPLIFIER | | 10565 |
| Power supply & ampl. assy | 73568 | |
| Jack | 14200 | |
| Socket, 3 poles | 14101 | |
| Mains transformer europe | 23070 | |
| Mains transformer, UL & CSA | 23071 | |
| Mains switch, europe | 11278 | |
| Mains switch, UL & CSA | 11237 | |
| P. C. Board 24846 assy | 76370 | |
| P. C. Board 24844 assy | 76369 | |
| Diode, SI, rectifier (IN4002) | 8156 | |
| Zener, 5,1 V., (ZPY 5,1) | 8232 | |
| Bridge rectifier (2W02) | 8168 | |
| Voltage regulator 12 V. (78M12) | 10038 | |
| Amplifier (TDA 2030) | 10028 | |
| Trimmer, res, 100K ohm | 7244 | |

CALIBRATION PROCEDURE "SPRINTER 61"

Initial conditions: Instrument switched-on, All tabs excluded, Accompaniment volume to max, Swell pedal to max.

| Instrument | Test point | Measurement Conditions | Trimmer | Diagram Ref. | Reading |
|--|--|--|---------|--------------|----------------------|
| Master Oscillator | | | | | |
| Tuner By ear | Loudspeaker | Flute 8' on A3 key pressed | I | R174-75089 | Zero beat |
| Digital counter | pin 8-IC13 (organ tuning) | Flute 8' on A3 key pressed | I | R174-75089 | 440 Hz. |
| Cymbal & HH | | | | | |
| Oscilloscope 2V./cm. 10mS./cm. | TR 5 coll. (cymbal-HH) | Latin on Drum on Tempo 1/4 course | A | R48-75089 | 2,5 Vpp. |
| Noise colour | | | | | |
| By ear | Loudspeaker | Latin on Drum on Tempo 1/4 course | C | R64-75089 | Shining sound |
| Claves | | | | | |
| Oscilloscope 2V./cm. 5mS./cm. | Pin 4-IC3 (claves) | Latin on Drum on Tempo 1/4 course | E | R75-75089 | 16mS. Decay time |
| Bass Drum | | | | | |
| Oscilloscope 2V./cm. 20mS./cm. | Pin 10-IC3 (bass drum) | Tango on Drum on Tempo 1/4 course | F | R76-75089 | 160mS. Decay time |
| Bongo | | | | | |
| Oscilloscope 2V./cm. 20mS./cm. | Pin 11-IC3 (bongo) | Tango on Drum on Tempo 1/4 course | D | R65-75089 | 160mS. Decay time |
| Brush | | | | | |
| Oscilloscope 2V./cm. 10mS./cm. | TR 4 coll. (brush) | Tango on Drum on Tempo 1/4 course | B | R53-75089 | 5 Vpp. |
| Chord Decay | | | | | |
| Digital volt. | R132 cross point C48 (chord decay) | Tango on Automagic on Touch on | G | R134-75089 | 2,6 V. |
| Bass Decay | | | | | |
| Oscilloscope 0,1 V./cm. a.c. 0,1S./cm. | Pin 14-IC9 (bass decay) | Tango on Automagic on Tempo 1/4 course Fl pressed | H | R135-75089 | 0,4 S. Decay time |
| Vibrato Speed | | | | | |
| Oscilloscope 2V./cm. 20mS./cm. | Pin 8 IC12 (vibrato speed) | | L | R207-75089 | 150mS. Period |
| Attack | | | | | |
| Digital volt. | R108 cross point C38 (attack) | | N | R111-76371 | 3,5 V.d.c. |
| Amplifier | | | | | |
| Oscilloscope 0,5V./cm. 1mS./cm. | Pin A 76369 (amplifier) | Flute on F3 pressed | O | R5-76369 | 2,5 Vpp. |
| Vibraphone Speed | | | | | |
| Oscilloscope 2V./cm. 50mS./cm. | Pin 14-IC5 (vibraphone speed) | | M | R24-76371 | 220mS. Period |