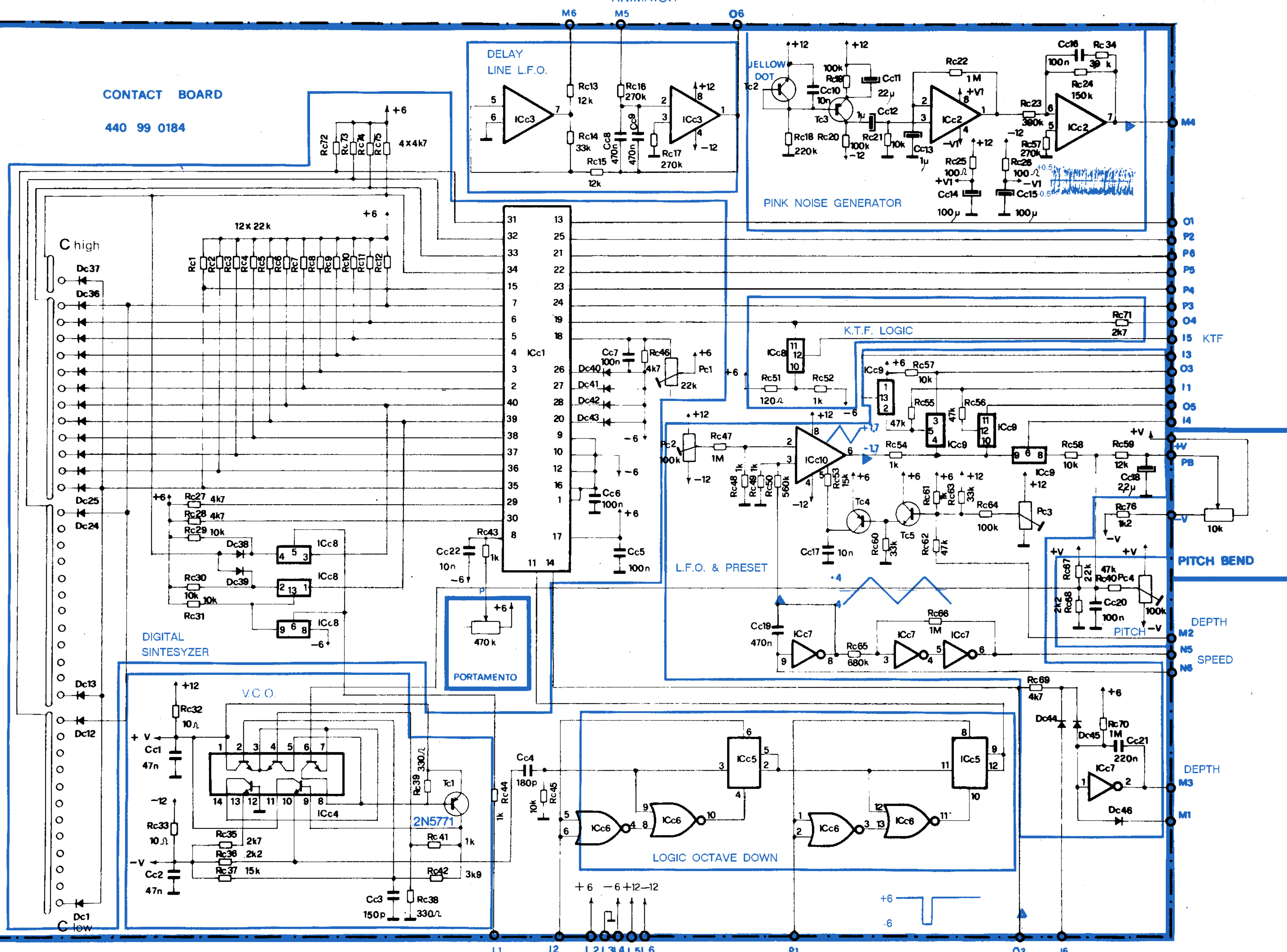
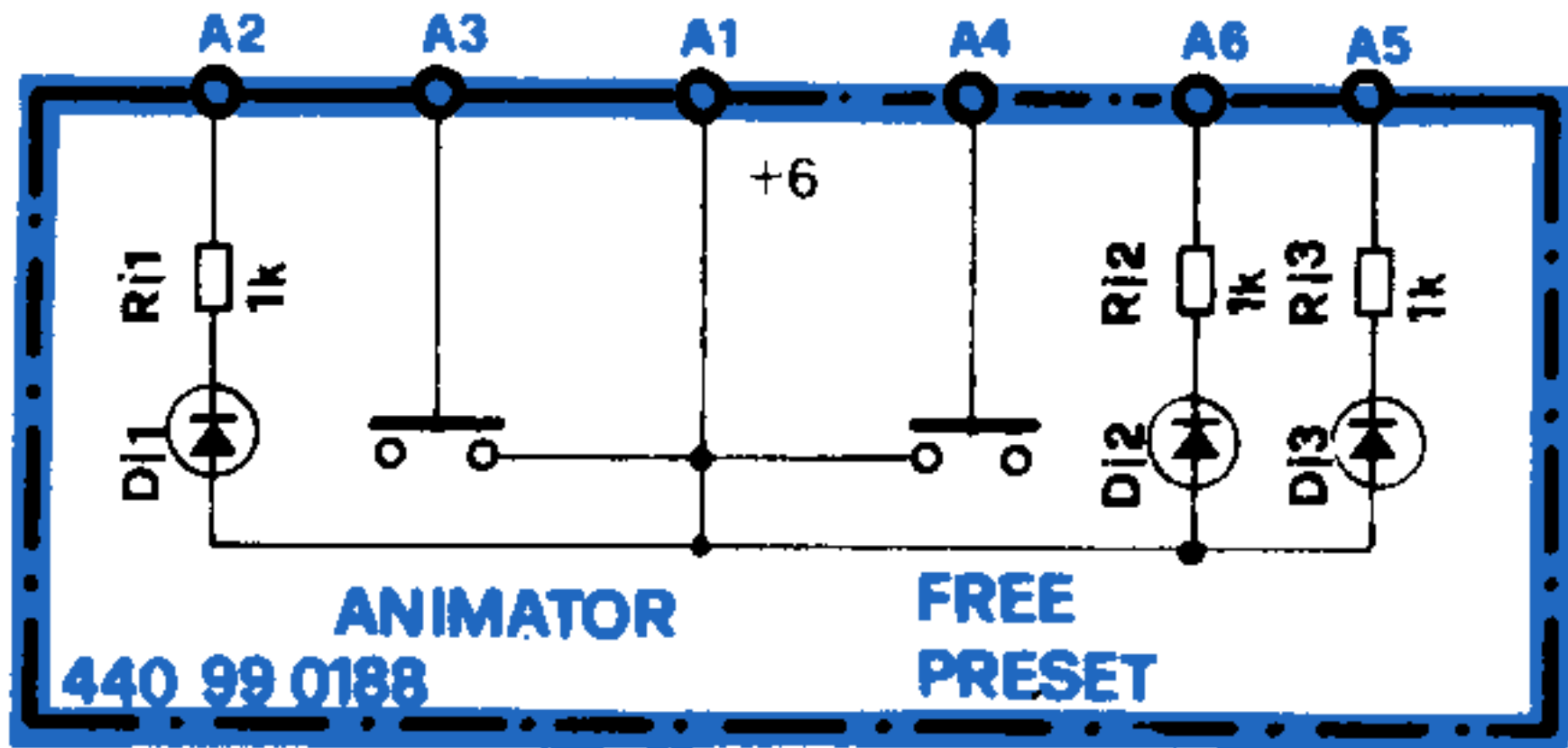


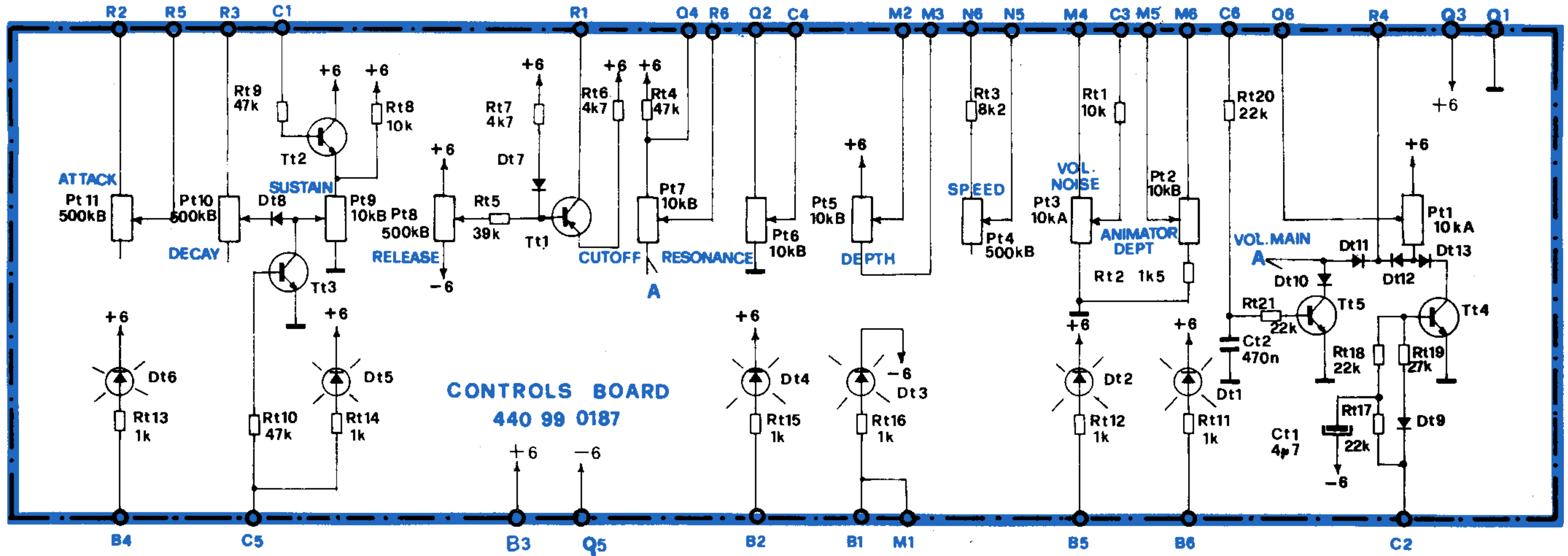
ANIMATOR

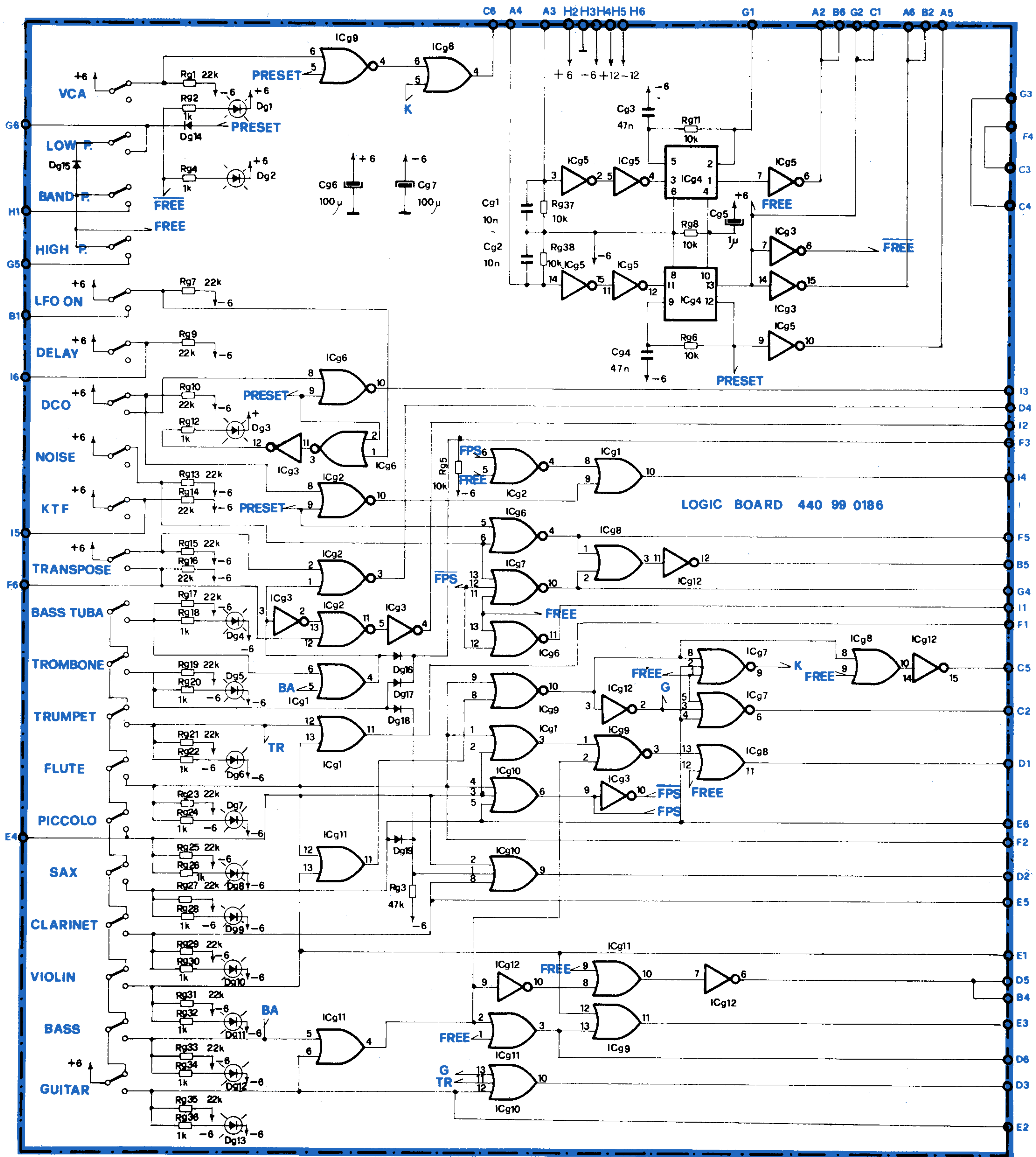
CONTACT BOARD

440 99 0184

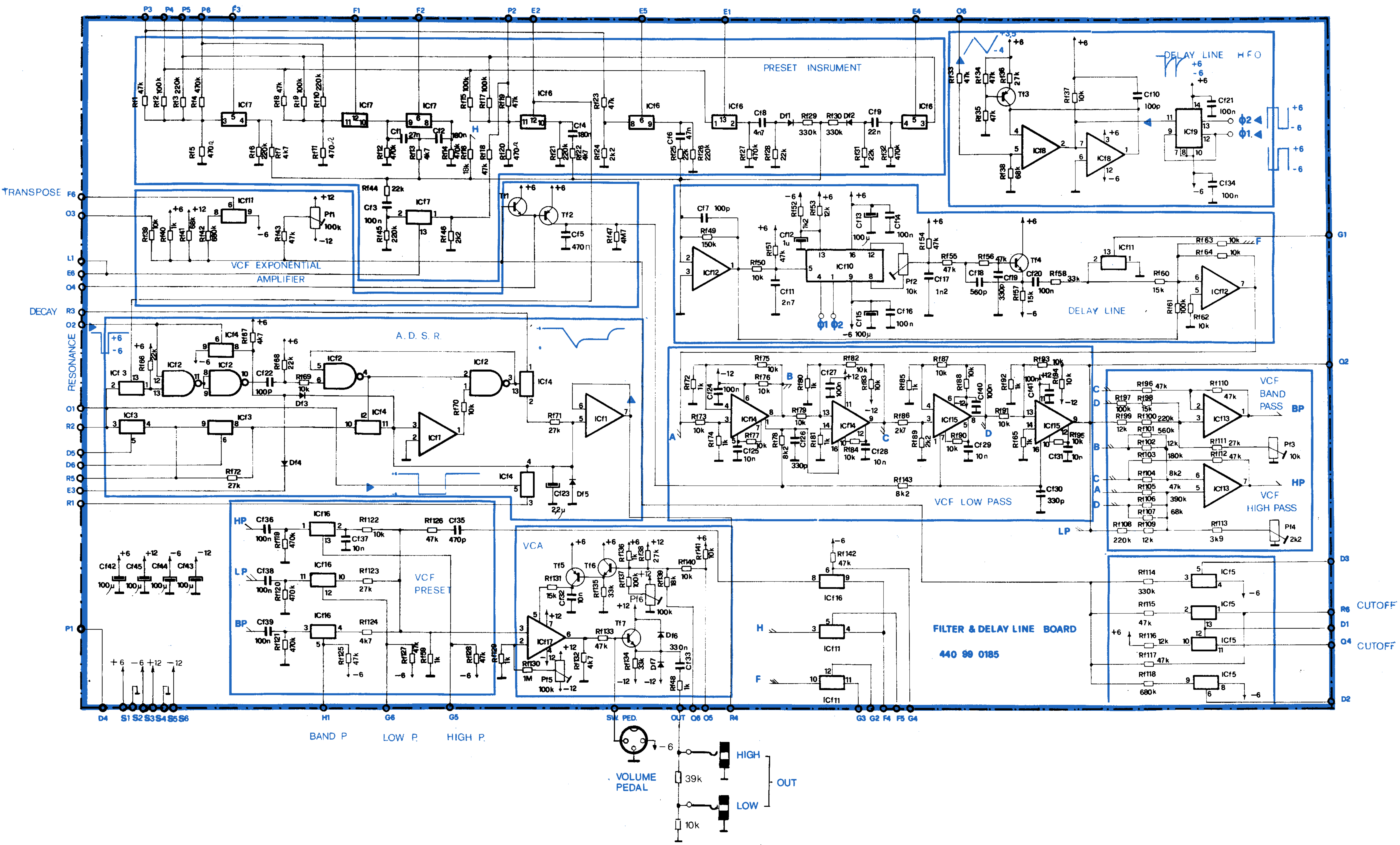








LOGIC BOARD 440 99 0186



PRESET INSTRUMENT

VCF EXPONENTIAL AMPLIFIER

A.D.S.R.

VCF LOW PASS

VCF BAND PASS BP

VCF HIGH PASS HP

VCA

VCF PRESET

FILTER & DELAY LINE BOARD

440 99 0185

VOLUME PEDAL

HIGH

LOW

OUT

BAND P

LOW P.

HIGH P.

CUTOFF

CUTOFF

DELAY LINE IFO

DELAY LINE

TRANPOSE

DECAY

F6

O3

L1

O4

R3

O2

R2

O1

R2

D5

D6

R5

E3

R1

P1

D4

S1

S2

S3

S4

S5

S6

H1

G6

G5

SMK PED.

OUT

O6

O5

R4

G3

G2

F4

F5

G4

G1

O2

D3

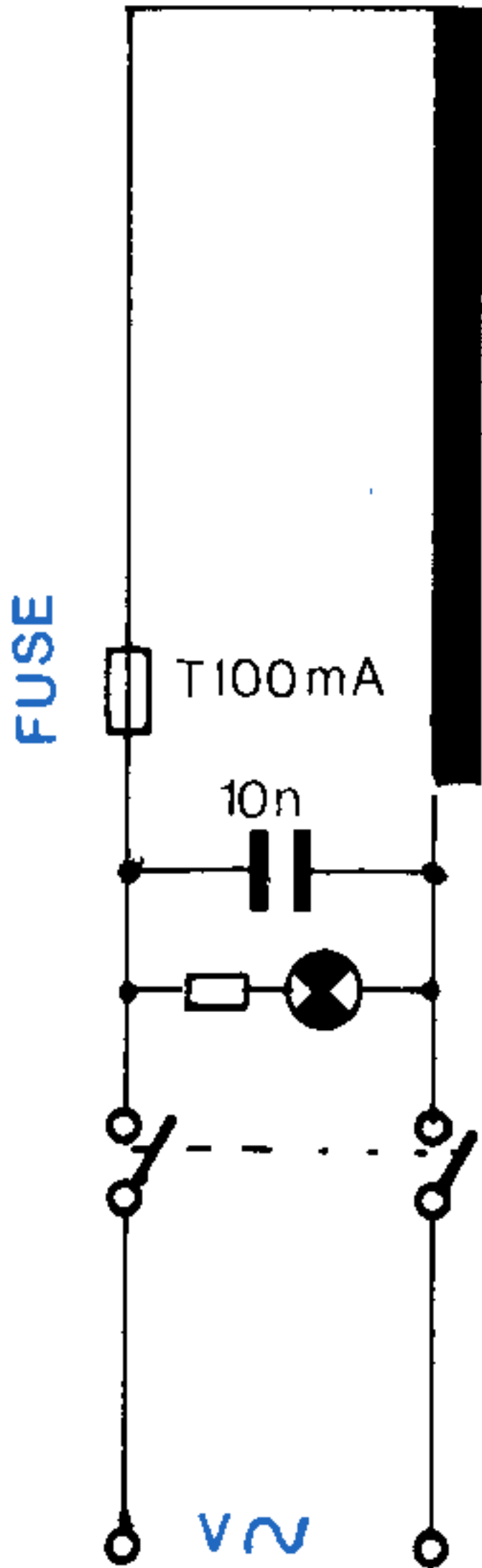
R6

D1

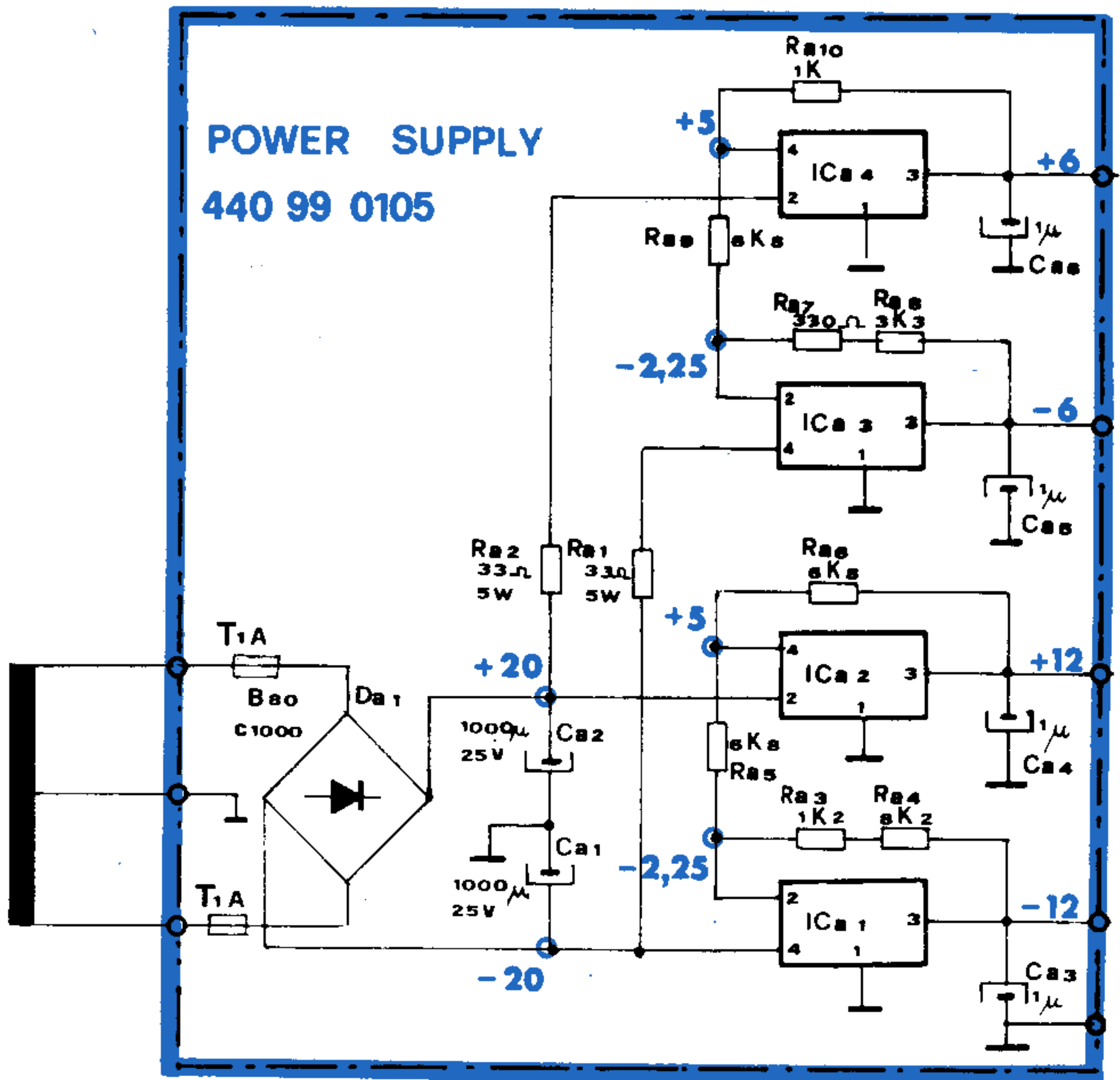
O4

D2

CODE 372 99 0011



# POWER SUPPLY 440 99 0105



AT 110 V THE TRASFORMER  
HAS THE PART NUMBER 376 99 0012: FUSE 200mA

POWER SUPPLY

P.C. 440.99.0105

		<u>TYPE</u>	<u>CODE</u>
ICa	1 - 3	uA 79 MG	367.99.8003
ICa	2 - 4	uA 78 MG	367.99.8002

**NOTES**CONTACT BOARD

P.C. 440.99.0184

ICc	1	M 110	367.99.5017
ICc	2	1458	367.99.7004
ICc	3	TL 082	367.99.7009
ICc	4	LM 3046	367.99.7007
ICc	5	4013	367.99.6003
ICc	6	4001	367.99.6001
ICc	7	4069	367.99.6005
ICc	8 - 9	4016	367.99.6004
ICc	10	CA 3080	367.99.7006
Tc	1	2N 5771	364.99.0010

FILTERS BOARD

P.C. 440.99.0185

ICf	1	TL 082	367.99.7009
ICf	2	4011	367.99.6002
ICf	3-4-5-6-7-11-16	4016	367.99.6004
ICf	8	3302	367.99.7003
ICf	9	4013	367.99.6003
ICf	10	TDA 1022	367.99.5012
ICf	12 - 13	1458	367.99.7004
ICf	14 - 15	LM 13600	367.99.7005
ICf	17	CA 3080	367.99.7006

LOGIC BOARD

P.C. 440.99.0186

ICg	1-8-11	4071	367.99.6022
ICg	2-6-9	4001	367.99.6001
ICg	3-5-12	4049	367.99.6012
ICg	4	4013	367.99.6003
ICg	7	4025	367.99.6021
ICg	10	4075	367.99.6025

-- ALL PNP Transistors are BC 416 Part Code 364.99.0004 Unless otherwise indicated

-- ALL NPN Transistors are BC 173 Part Code 364.99.0003 Unless otherwise indicated

-- ALL DIODES are 1N 4148 Unless otherwise indicated

-- ALL Resistors 1/4W Unless otherwise indicated

-- ALL Electrolytic capacitors 16V DC Unless otherwise indicated

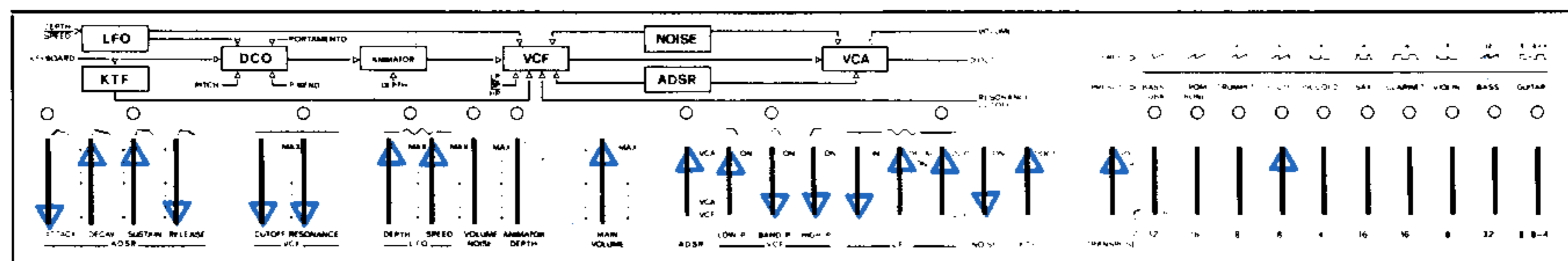
-- ALL Switches shown in off position

-- ALL Red leds are FL V 117

-- ALL Green leds are LT 233 .

# ADJUSTMENT

## INITIAL POSITION



### TUNING

- Set the MONO PITCH (left side) in the middle and tune the monophonic section by trimmer Pc 4.

### K.T.F.

- Press the highest C.
- Read by a DMM (Digital Multi Meter) across Rc 71 (2K7) and adjust trimmer Pc 1 for a 2,25 D.C. Voltage value.

### L.F.O.

- Set DMM in V RMS position and connect it between the output of IC c10 (pin 6 CA 3080) and ground.
- Insert L.F.O. ON and adjust trimmer Pc 3 for a value of 0,95V. (34Vpp)
- Move DMM in V = position.
- Take off L.F.O. and read the value.
- Insert L.F.O. ON and adjust trimmer Pc 2 so that the value is the same as read before.
- Take off L.F.O.

### V.C.A.

- Insert DMM between the collector of Bc 416 (Tf 5) and ground.
- Shortcircuit Df 5 diode.
- Adjust trimmer Pf 6 for a 1 D.C. Voltage value.

### OFFSET V.C.A.

- Set on PICCOLO, CUT OFF upwards.
- Adjust trimmer Pf 1 in such a way that the attack sound is 'clickless'.

### V.C.F.

- Set on FLUTE, RESONANCE upwards, CUT OFF downwards.
- Adjust trimmer Pf 1 so that the V.C.F. oscillating frequency is the same as the fundamental of the pressed key.

### BAND PASS

- Set on BAND PASS filter, RESONANCE downwards, CUT OFF upwards.
- Adjust trimmer Pf 3 so that the fundamental of the pressed key disappears.

### HIGH PASS

- Set on HIGH PASS filter and adjust trimmer pf 4 in the same way as BAND PASS.

### DELAY LINE

- Set trimmer Pf 2 in the middle.