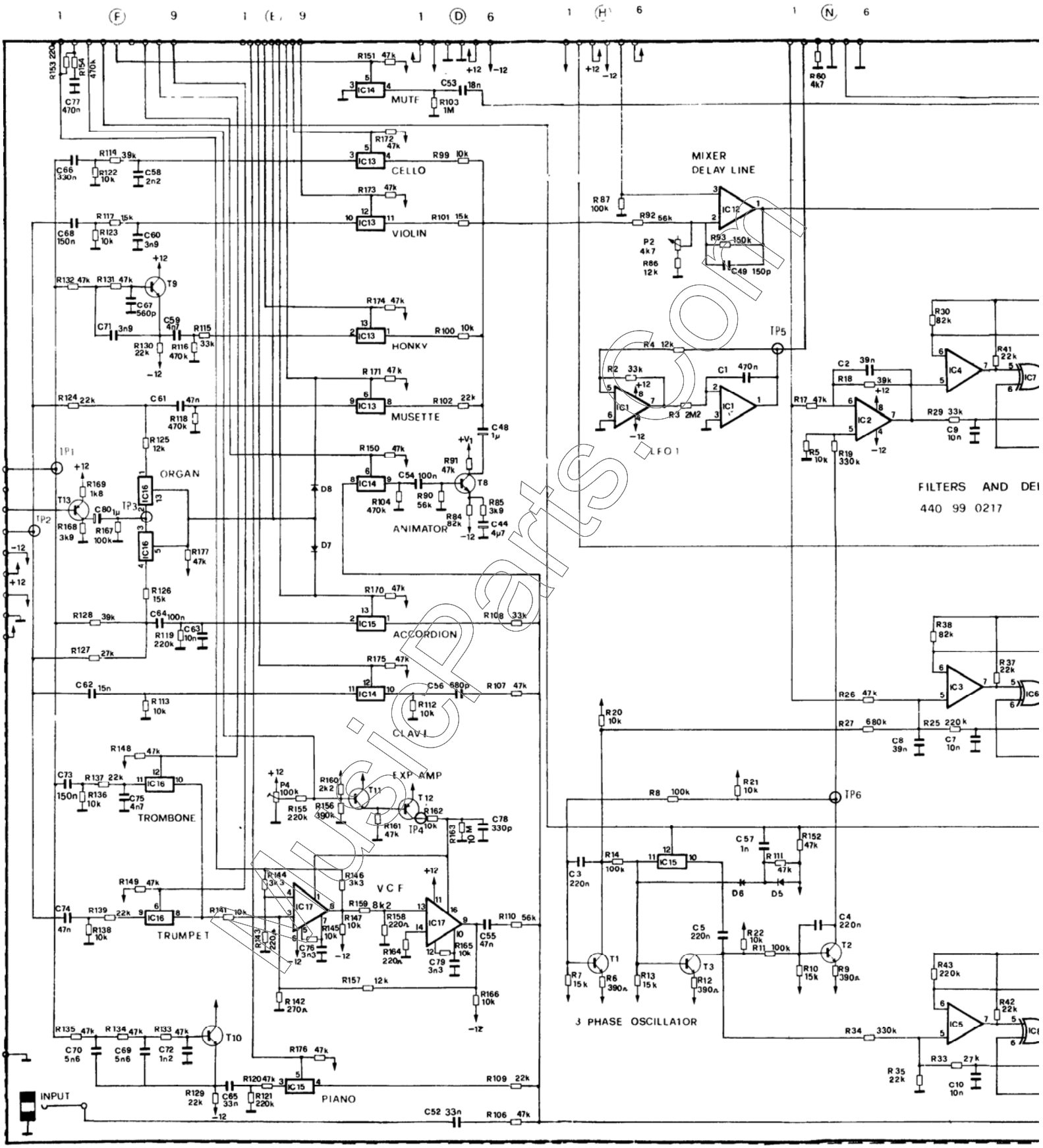
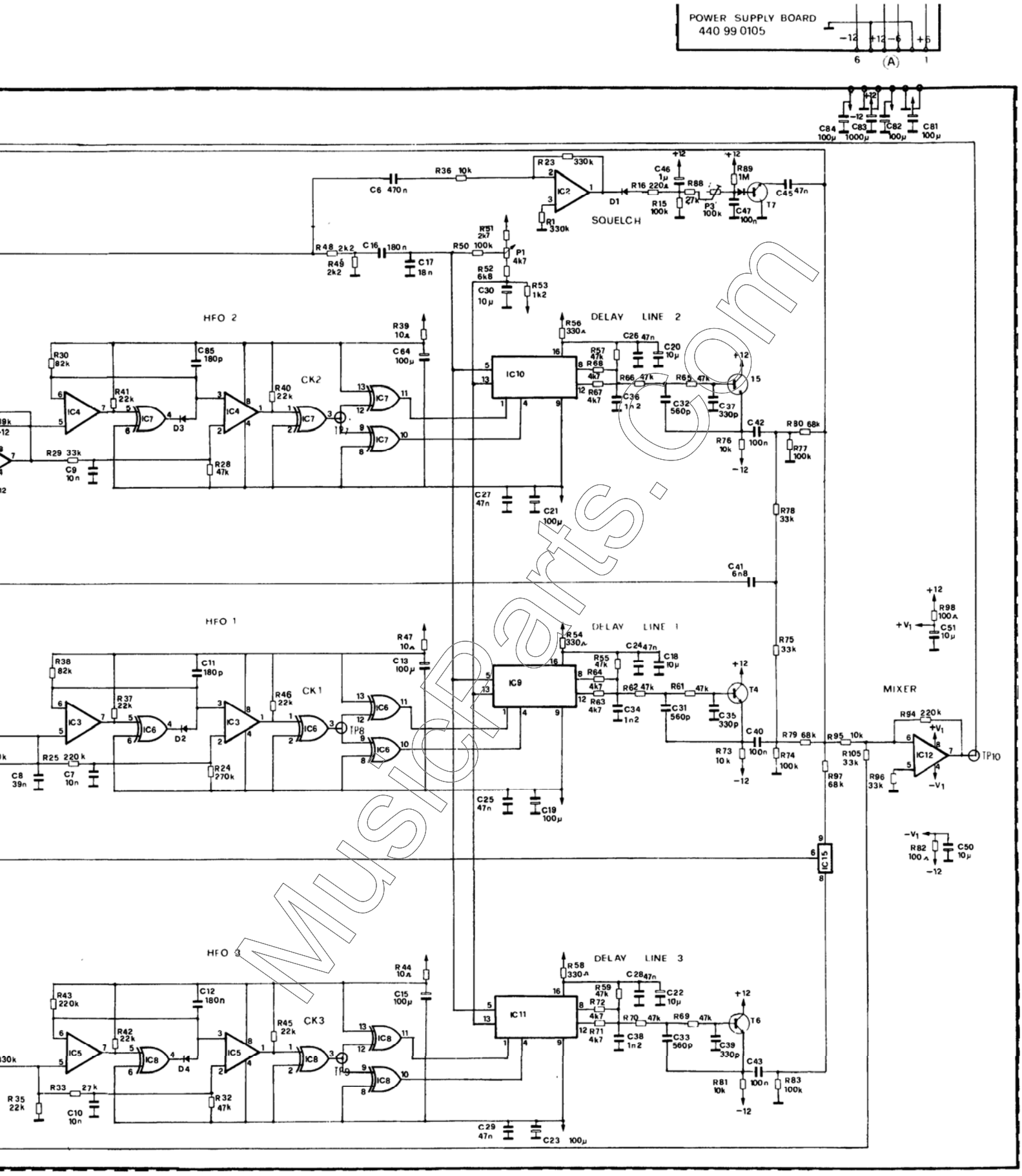


FILTERS AND DELAY LINES BOARD
440 99 0217



FILTERS AND DELAY LINES BOARD
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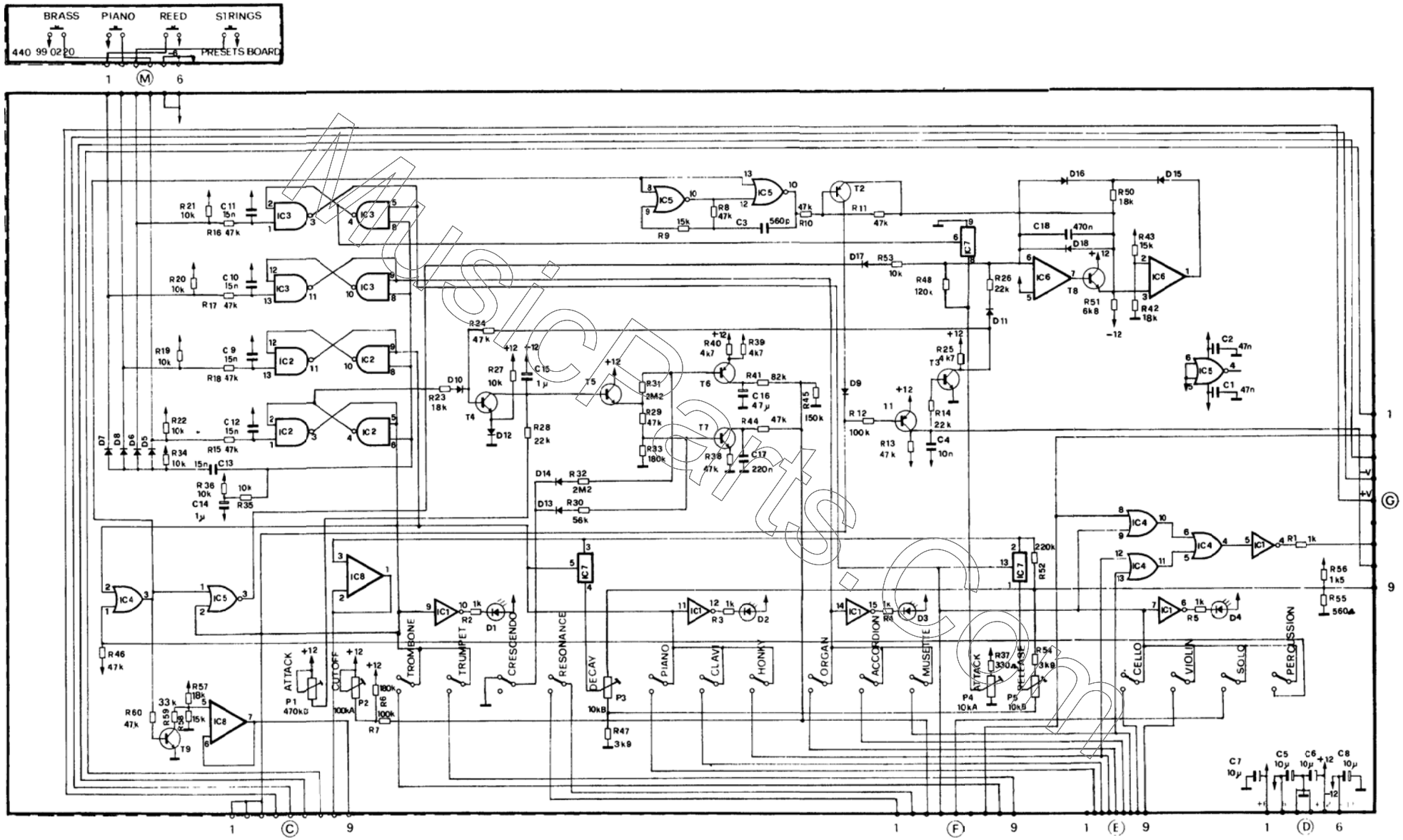
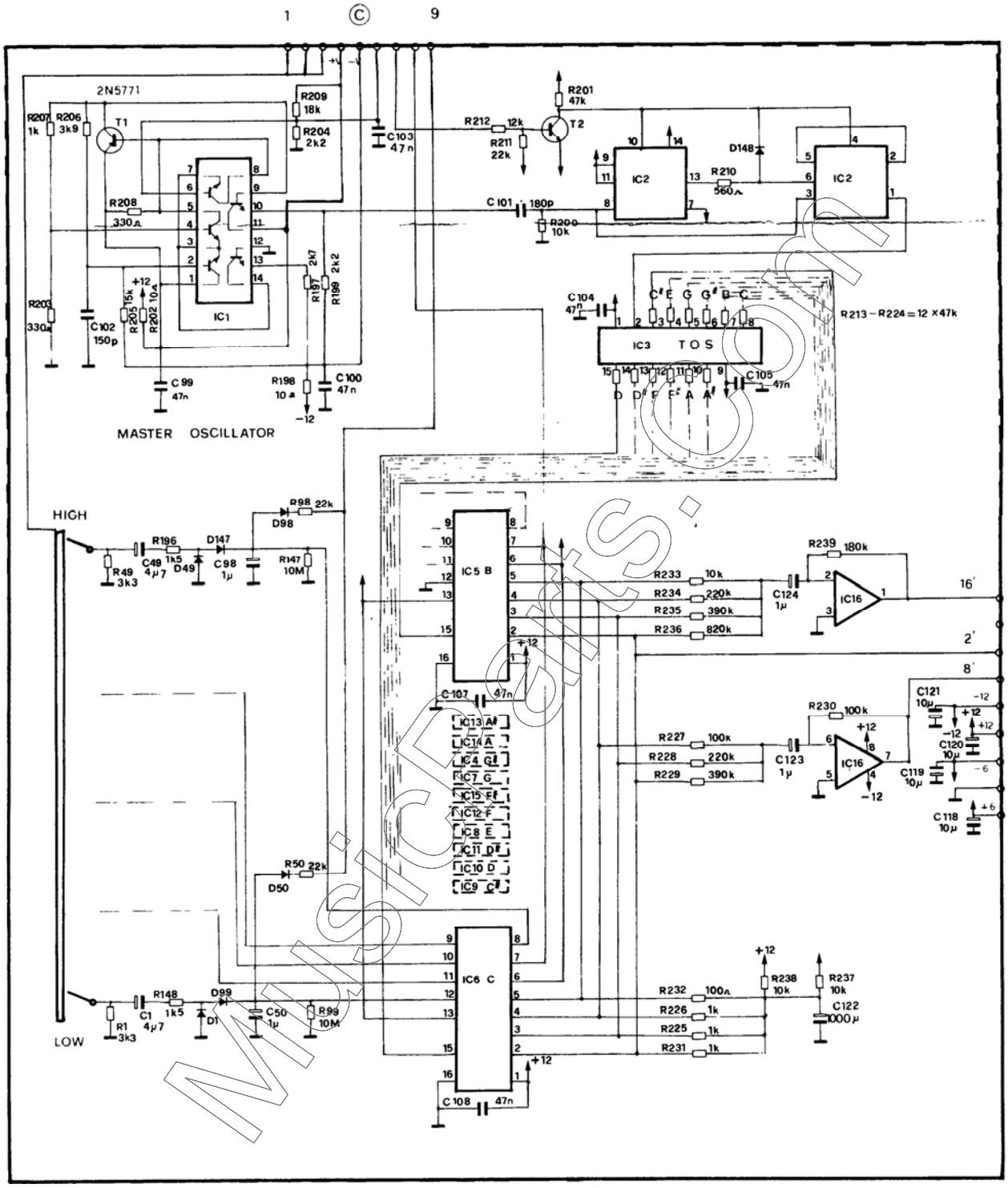
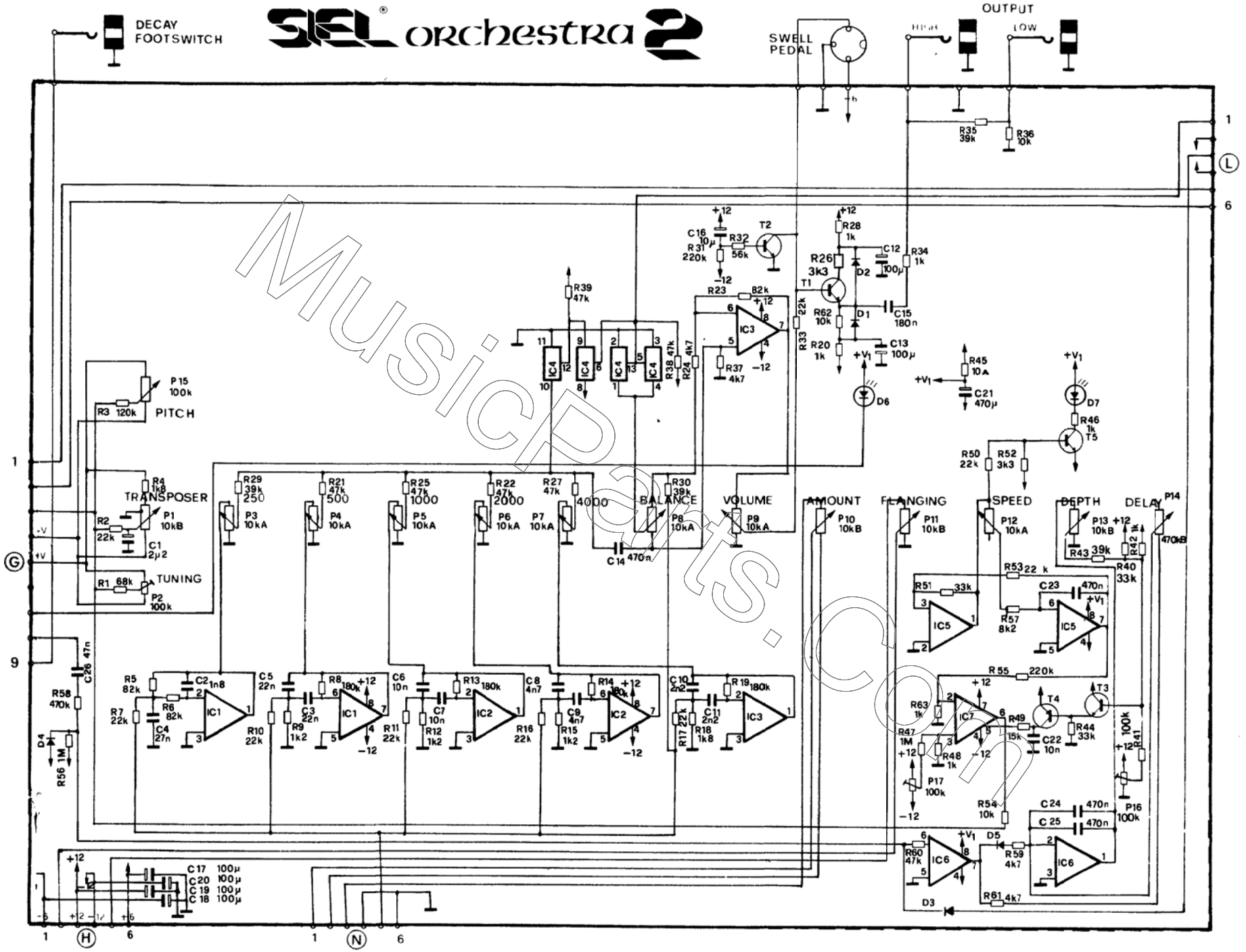
SIEL orchestra 2





CONTACT BOARD
440 99 0216



EQUALIZER AND CONTROLS BOARD
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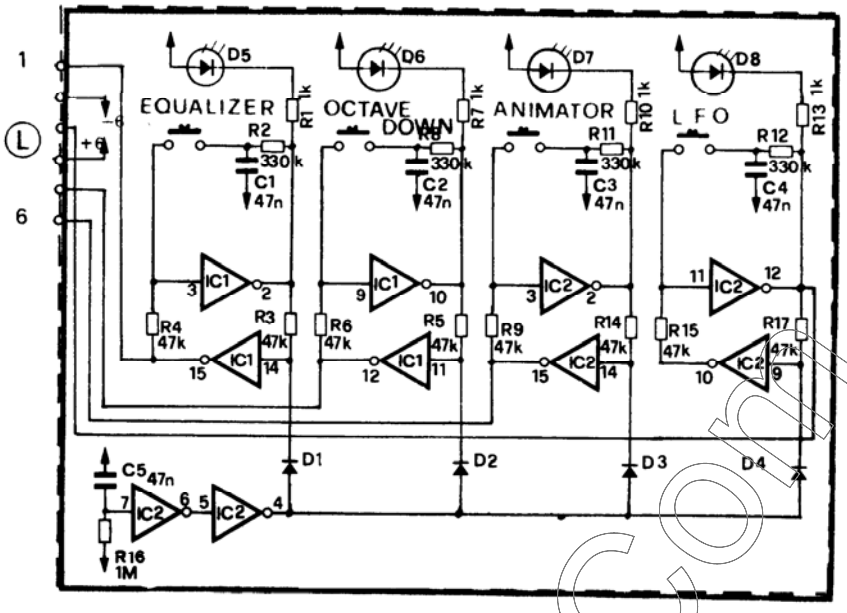
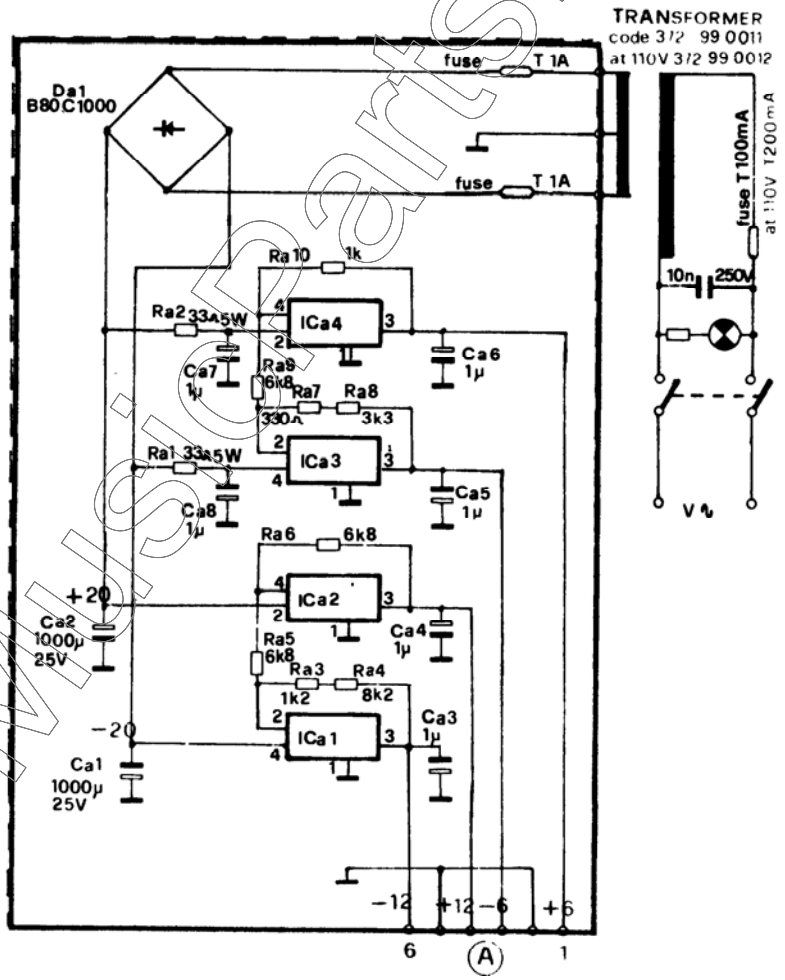


EFFECTS BOARD
440 99 0221



POWER SUPPLY BOARD
440 99 0105

ADJUSTMENT

TUNING

- Set the transposer and the pitch controls in the middle and tune the instrument by trimmer P2.

L.F.O.

- Set speed and Depth upwards.
- Set the DMM (Digital Multi Meter) in V RMS position and connect it between the output of IC 7 (pin 6 CA 3080) and ground.
- Insert L.F.O. and adjust trimmer Pc16 for a value of 0.95V (3.4 Vpp).
- Move DMM in V = position.
- Take off L.F.O. and read the value.
- Insert L.F.O. and adjust trimmer Pc17 so that the value is the same as read before.
- Take off L.F.O.

V.C.F.

- Set ATTACK BRASS in the middle, CUT OFF upwards, CRESCENDO off.
- Connect DMM between the collector of T12 and ground (Tp4).
- Pres a key and adjust trimmer P4 so as to read -6.3V.

FLANGING

- Insert the STRINGS family with VIOLIN on, FLANGING upwards, and adjust trimmer P2 to the best resonance effect.

SQUELCH

- Adjust trimmer P3 so that the SQUELCH insertion begin at the lowest possible sound level.

BIAS DELAY LINE

- Insert the BRASS and STRINGS familiers with TROMBONE, TRUMPET, CELLO, VIOLIN, CRESCENDO on, RESONANCE on, ANIMATOR on, and FLANGING upwards.
- Pres five keys and adjust trimmer P1 so as to obtain the minumum distortion level.

Parts

NOTES

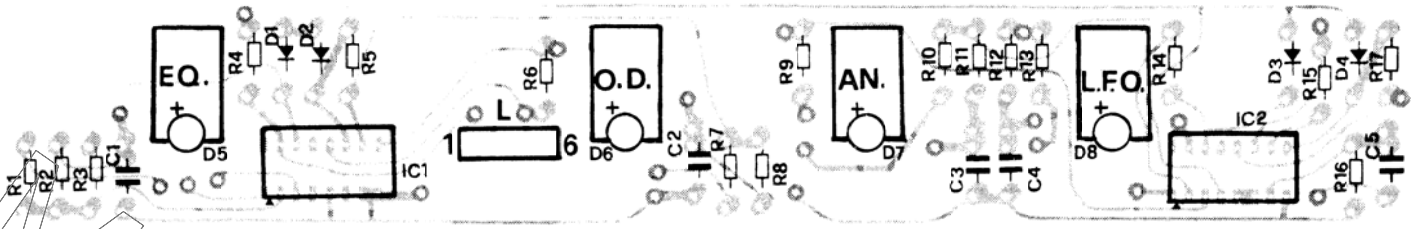
	Type	Code
CONTACT BOARD		
P.C. 440.99.0216		
IC 1	3046	367.99.7007
IC 2	4013	367.99.6003
IC 3	M 086	367.99.5019
IC 4 ÷ 15	TDA1008	367.99.5011
IC 16	1458	367.99.7004
EFFECTS BOARD		
P.C. 440.99.0221		
IC 1 ÷ 2	4049	367.99.6012
D 1 ÷ 4	LD30A	361.99.1501
EQUALIZER AND CONTROLS BOARD		
P.C. 440.99.0218		
IC 1 ÷ 3	1458	367.99.7004
IC 4	4016	367.99.6004
IC 5 ÷ 6	1458	367.99.7004
IC 7	CA 3080	367.99.7006
IC 6 ÷ 7	FLV 117	361.99.1001
FILTERS AND DELAY LINES		
P.C. 440.99.0217		
IC 1	TL 082	367.99.7009
IC 2	1458	367.99.7004
IC 3 ÷ 5	LM 393	367.99.7011
IC 6 ÷ 8	4070	367.99.6024
IC 9 ÷ 11	TDA1022	367.99.5012
IC 12	TL 082	367.99.7009
IC 13 ÷ 16	4016	367.99.6004
IC 17	LM 13700	367.99.7005
LOGIC BOARD		
P.C. 440.99.0219		
IC 1	4049	367.99.6012
IC 2 ÷ 3	4011	367.99.6002
IC 4	4071	367.99.6022
IC 5	4001	367.99.6001
IC 6	TL 082	367.99.7009
IC 7	4016	367.99.6004
IC 8	1458	367.99.7004
D 1 ÷ 4	FLV 117	361.99.1001
POWER SUPPLY		
P.C. 440.99.0105		
IC 1 ÷ 3	µA 79MG	367.99.8003
IC 2 ÷ 4	µA 78MG	367.99.8002

- All PNP Transistors are BC 416 Part Code 364.99.0004 Unless otherwise indicated
- All PNP 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 16 VDc otherwise indicated
- All Switches shown in off position

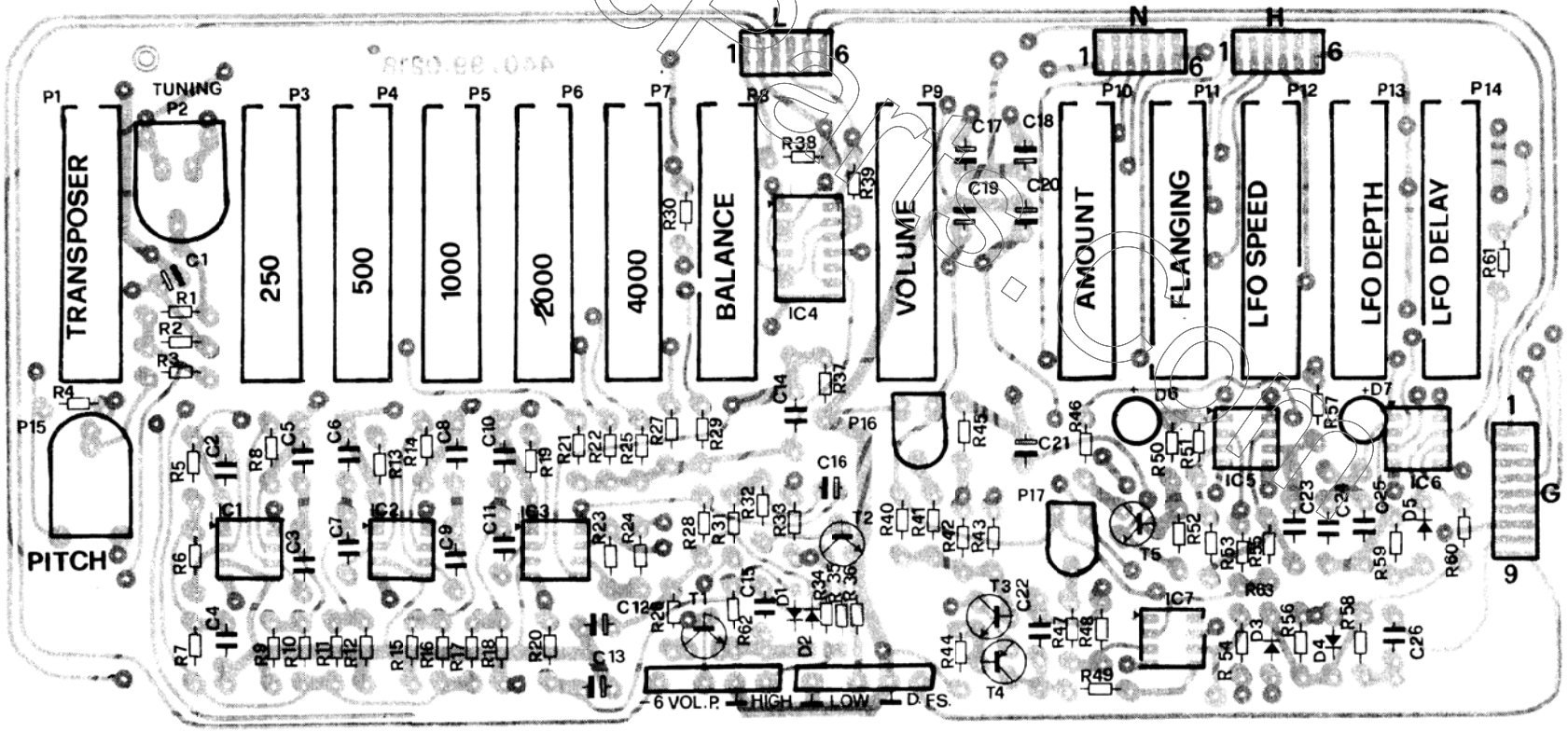
Upward arrow + 6 voltage
Downward arrow shows - 6 voltage
Unless otherwise indicated.

SIEL orchestra 2

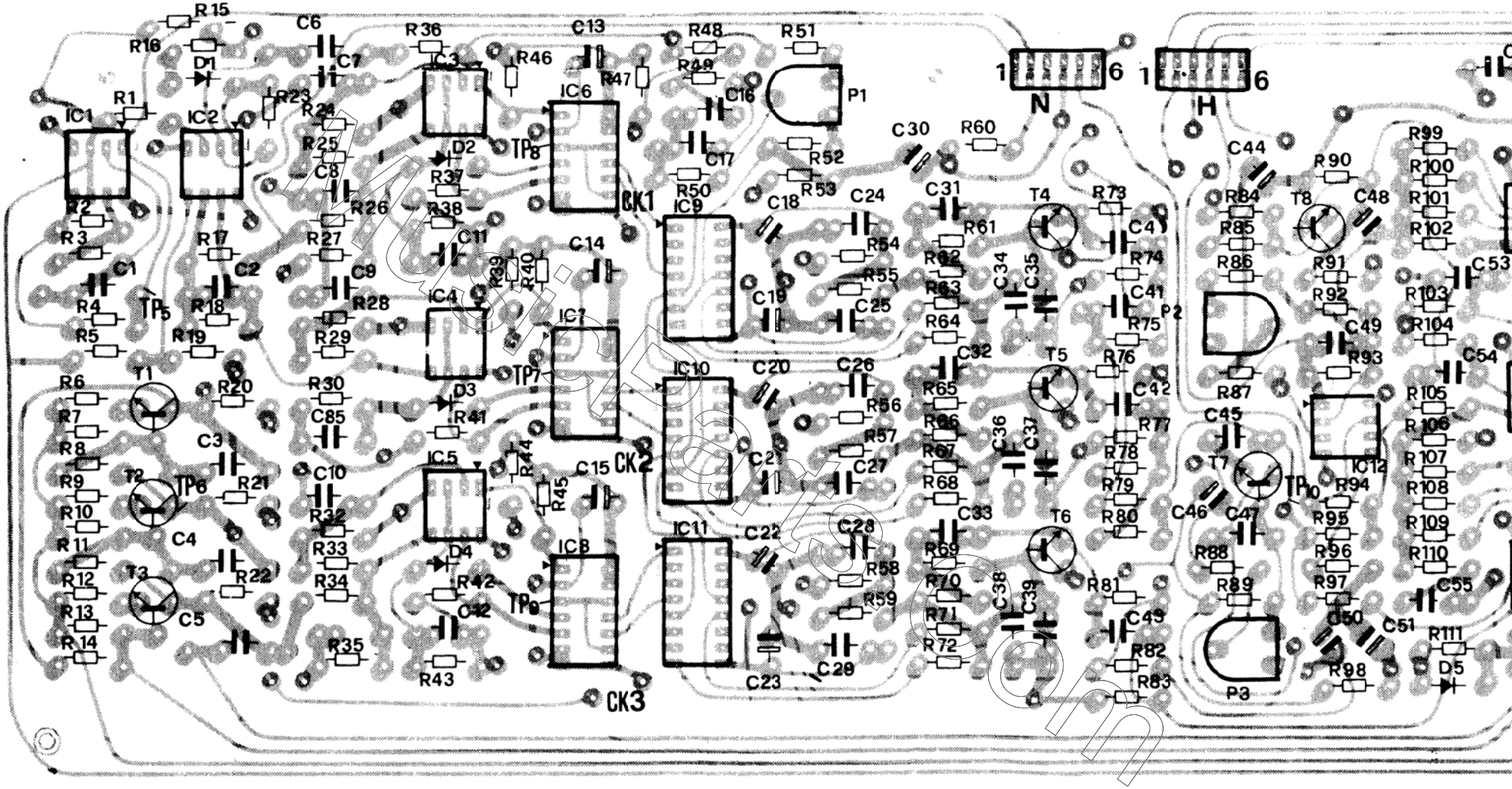
EFFECTS BOARD



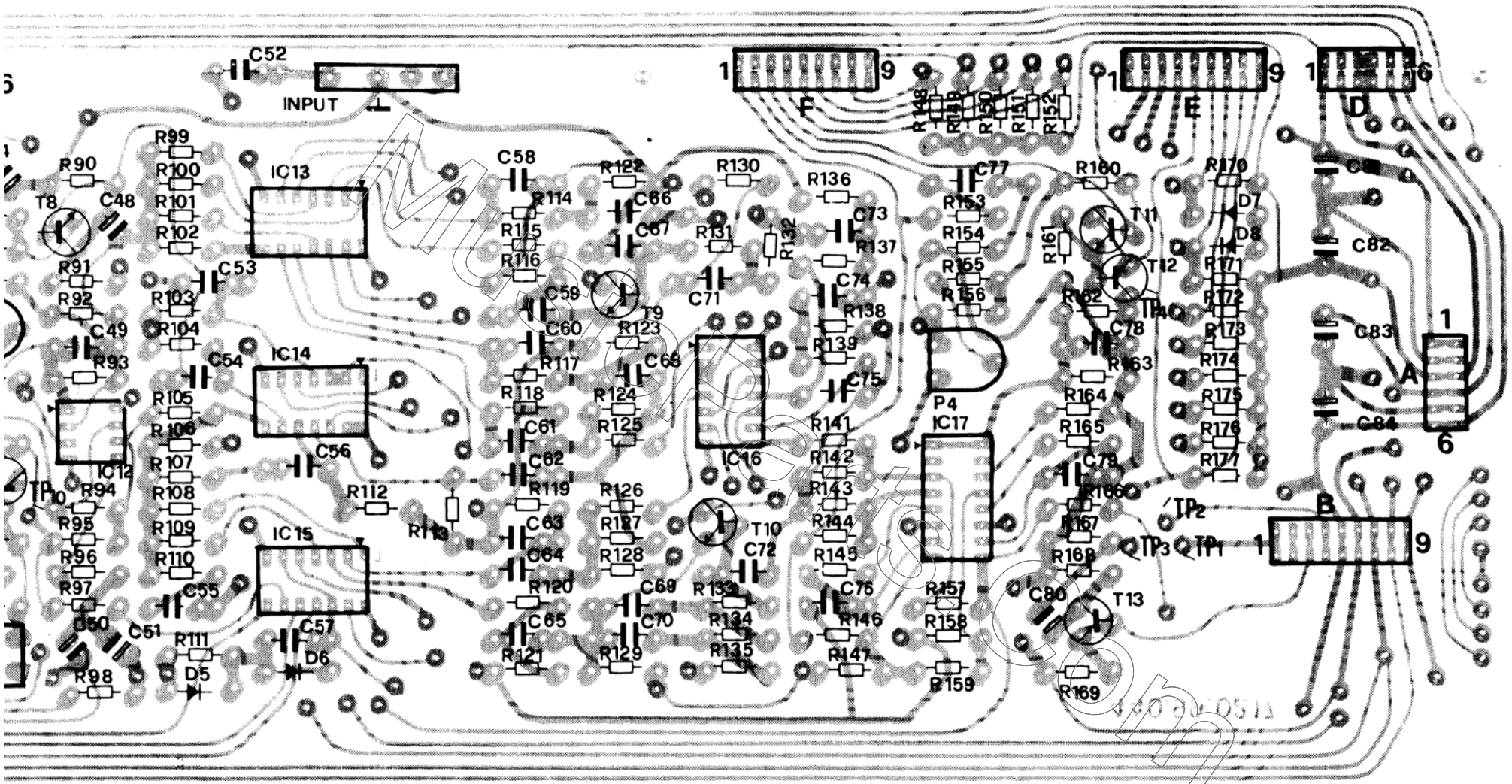
EQUALIZER AND CONTROLS BOARD



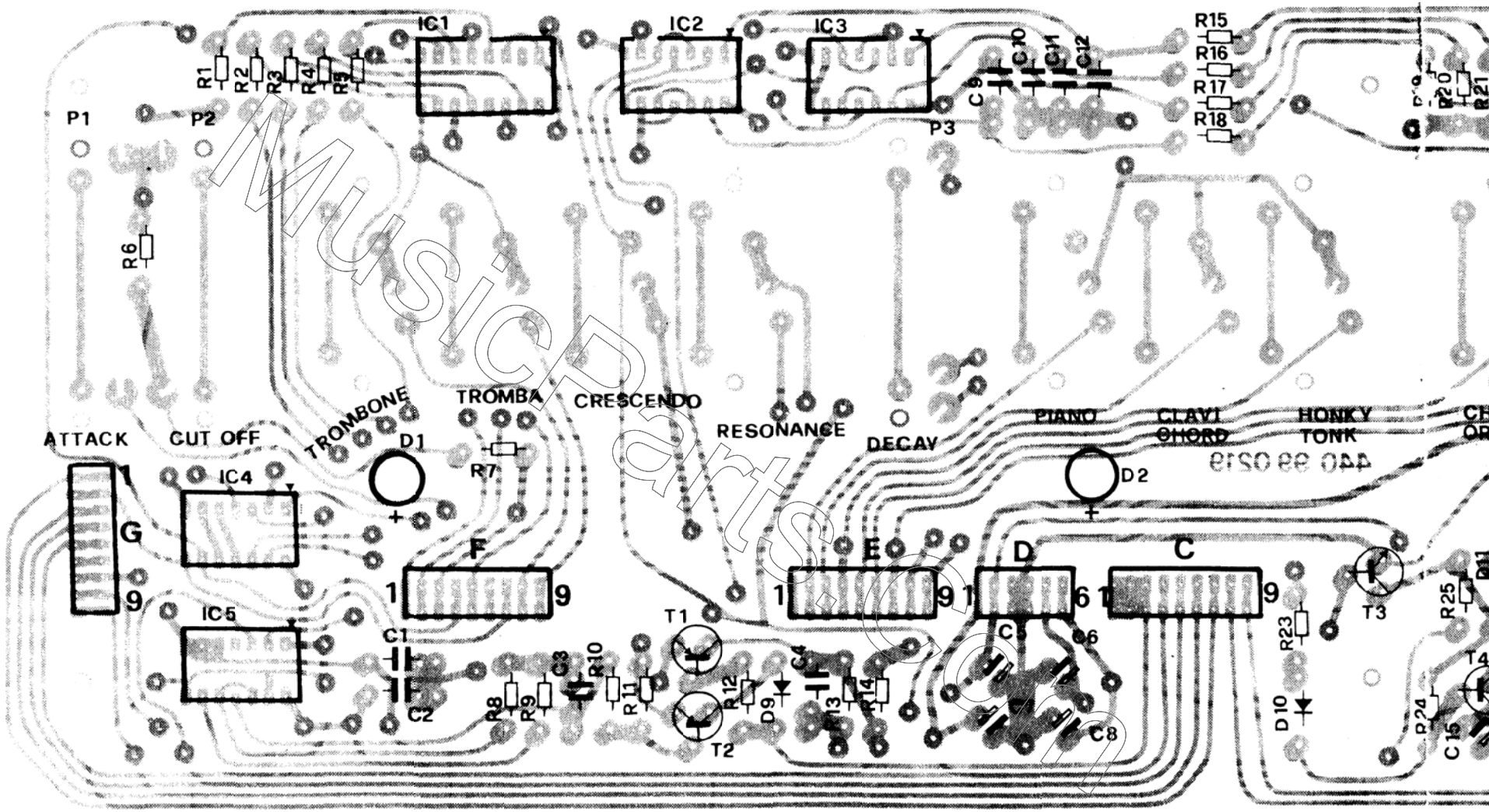
SIEL orchestra 2



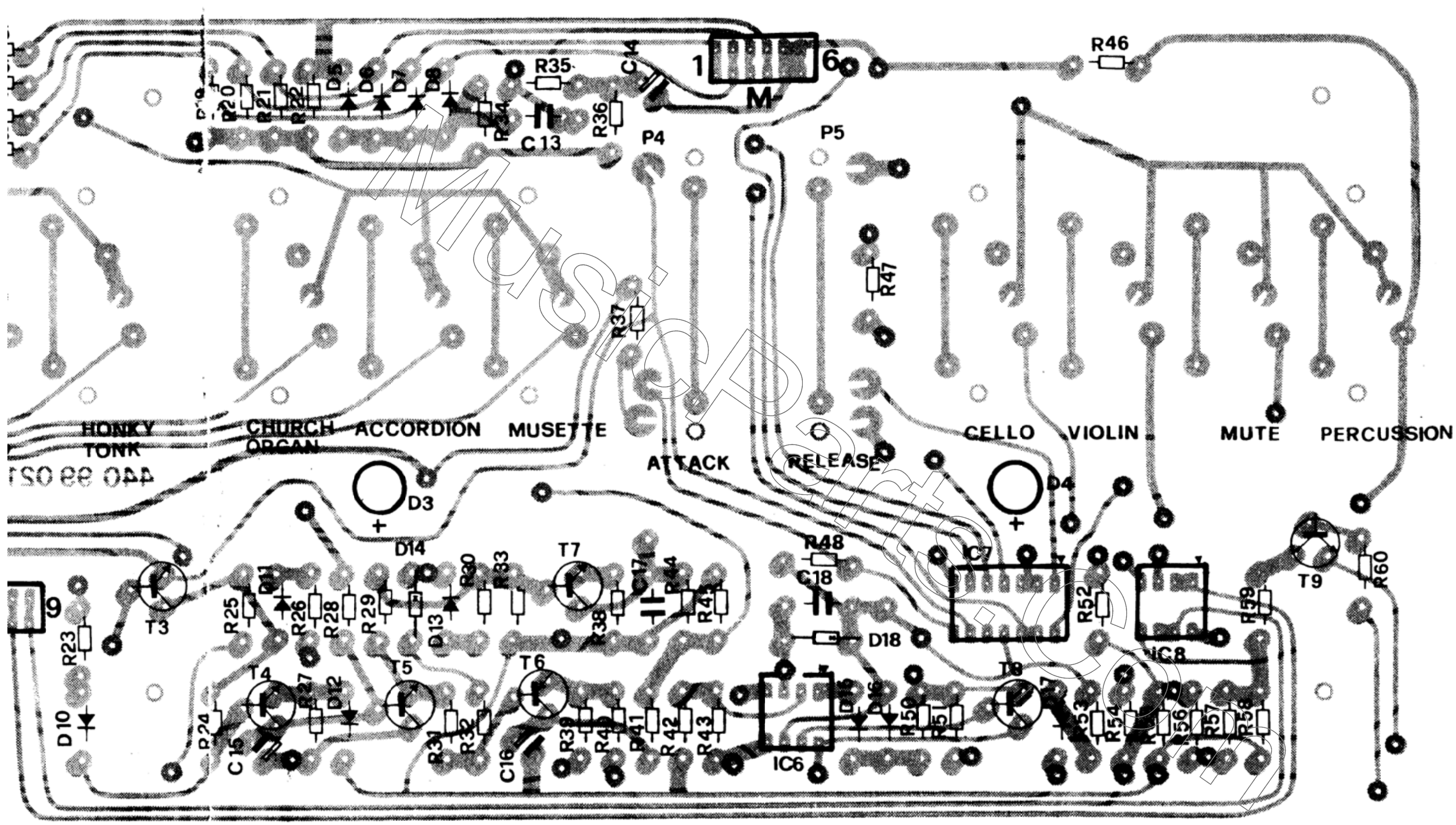
FILTERS AN



TERS AND DELAY LINES BOARD



LOGIC BOARD


HONKY TONK
CHURCH ORGAN
ACCORDION
MUSETTE
ATTACK
RELEASE
CELLO
VIOLIN
MUTE
PERCUSSION
P4
P5
D3
D4
IC6
IC7
IC8
T3
T4
T5
T6
T7
T8
T9
R46
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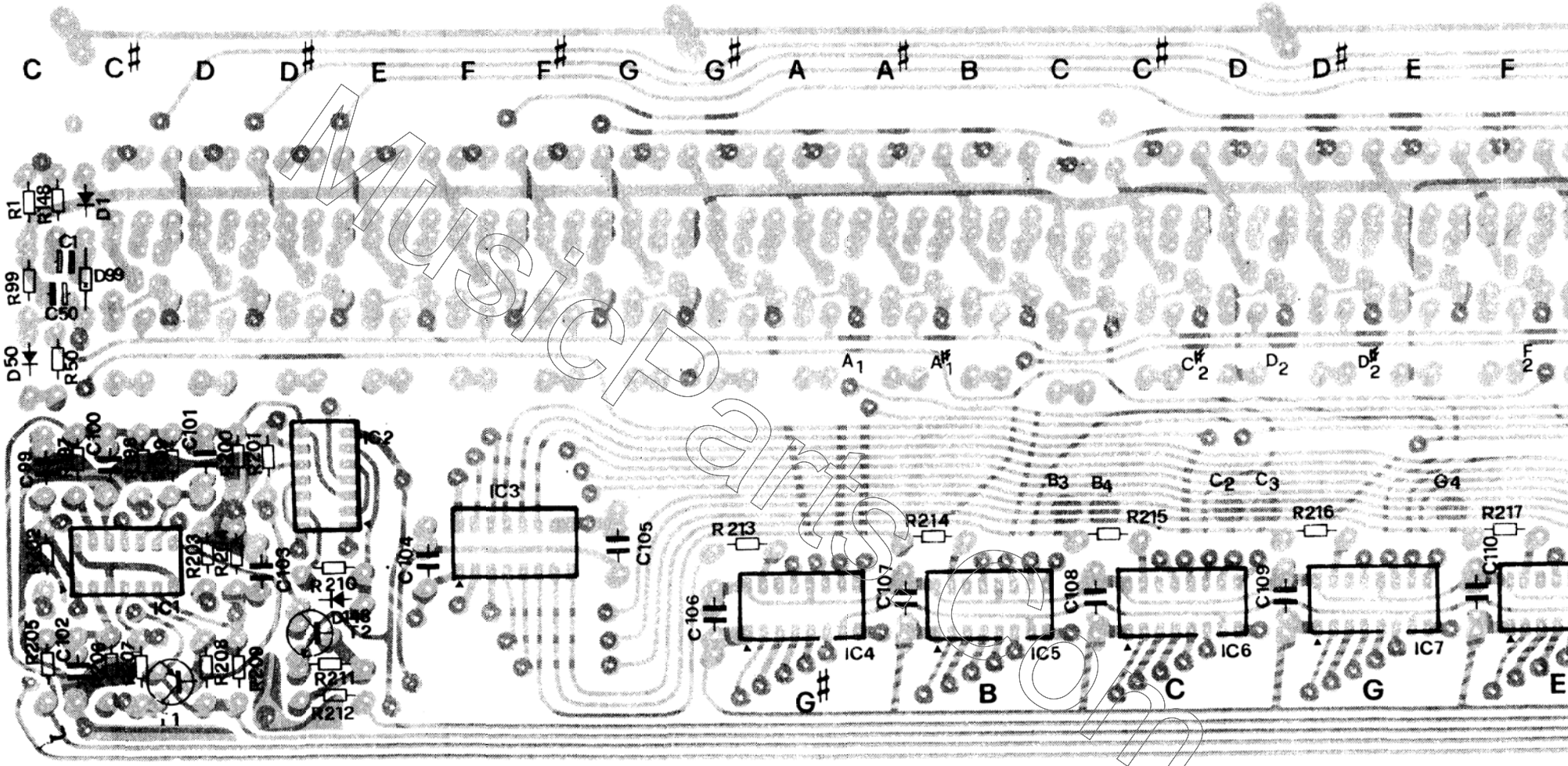
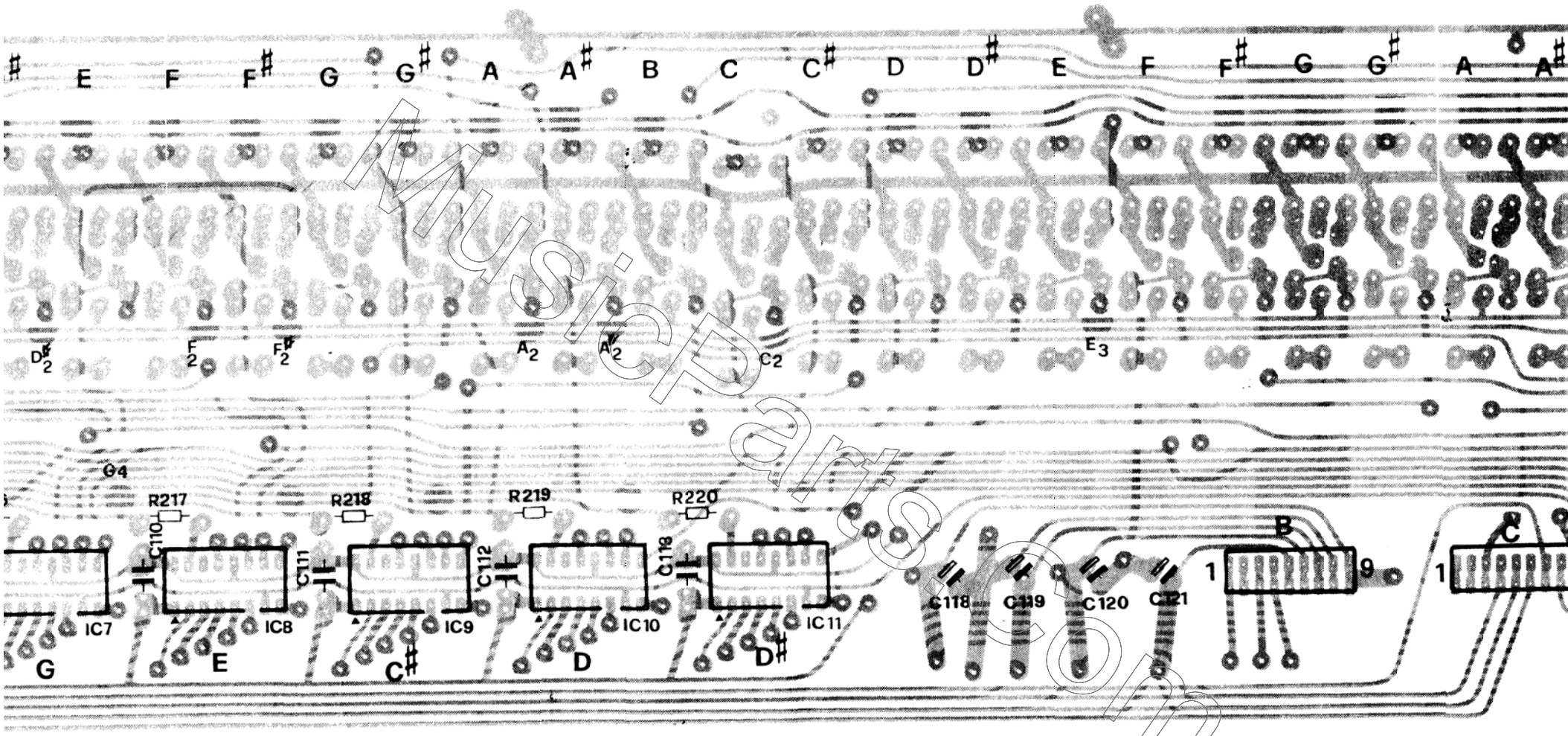
R48
C13
C14
C15
C16
C18
D10
D14
D18
440 99 021

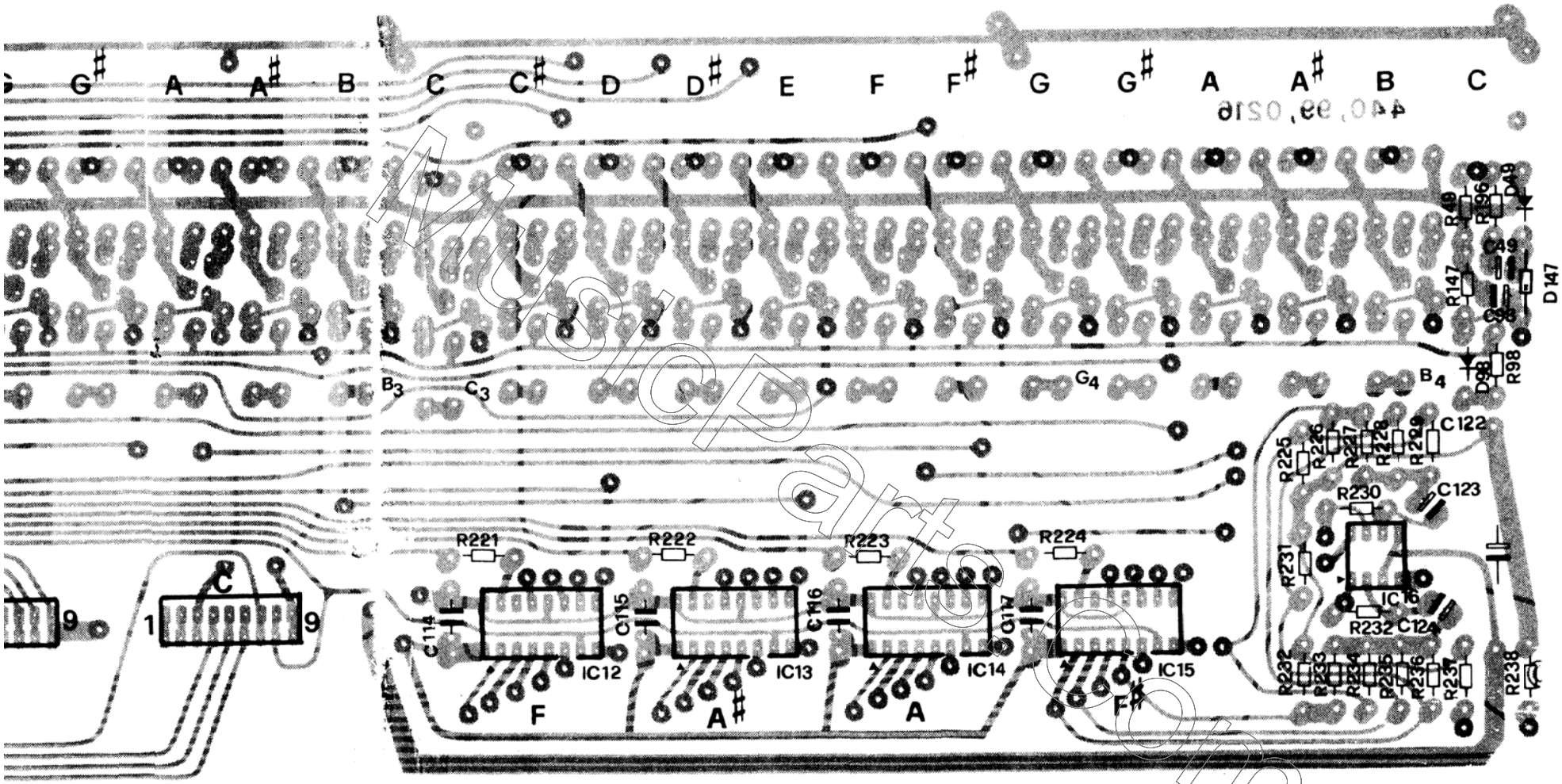
LOGIC BOARD



CONTACT BOARD



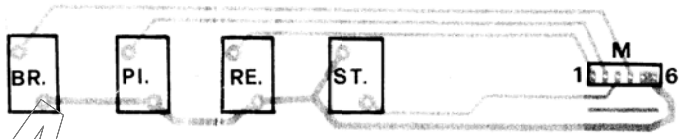
CONTACT BOARD



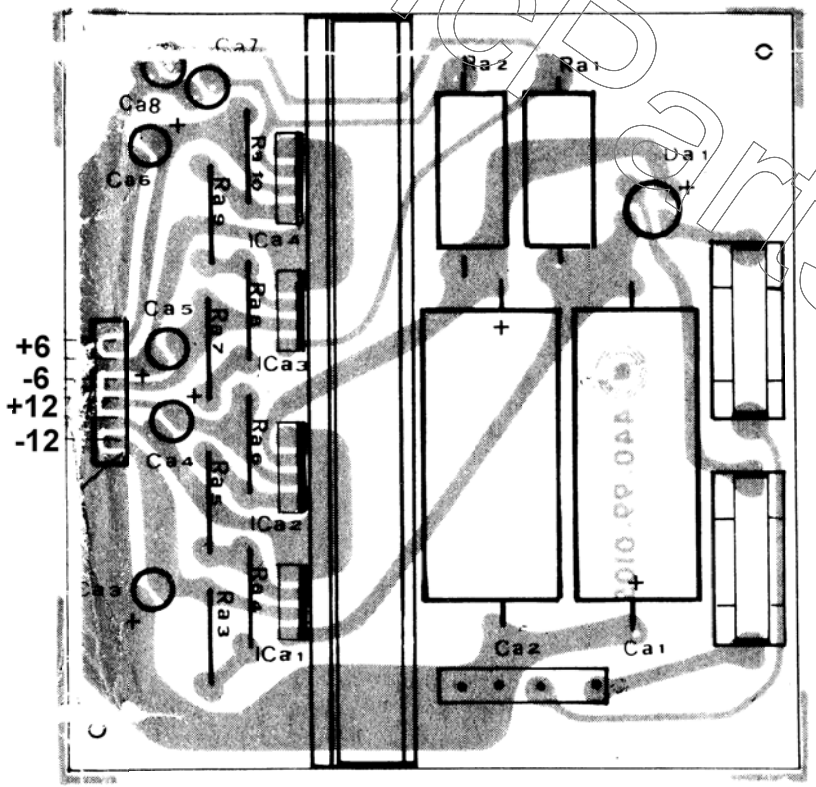
CONTACT BOARD

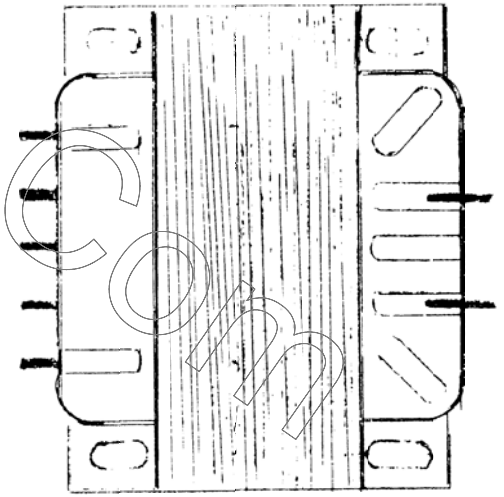
PRESETS BOARD

SIEL orchestra 2



POWER SUPPLY BOARD





V ~