



FLIPPERSPILL.COM



F.LLI ZACCARIA S.n.c.

di Zaccaria Marino - Franco - Natalo

COSTRUZIONI GIOCHI D'ATTRAZIONE

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Telex 213683 ZACC. I.

Electrical Diagrams



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LIST OF ILLUSTRATIONS

Assembly drawing

Layout for C.P.U. board

Diagram for C.P.U. board

Layout for FLIPPER PROGRAMMING board

Diagram for FLIPPER PROGRAMMING board

Layout for INTERFACE board

Diagram for INTERFACE board

Layout for POWER board

Diagram for POWER board

Layout for DISPLAY board

Diagram for DISPLAY board

Layout for SOUND board

Diagram for SOUND board

Layout for LIGHT EFFECT board

Diagram for LIGHT EFFECT board

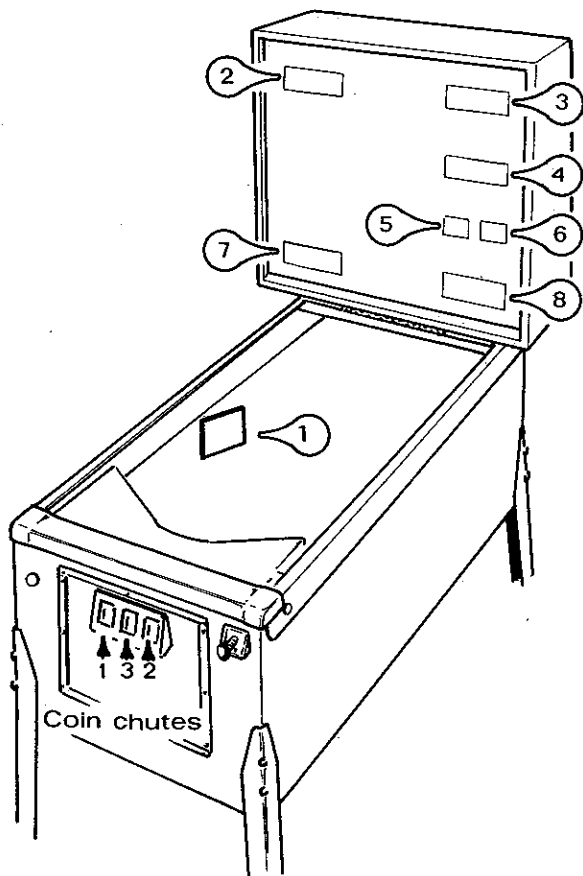
Diagram for PLAYFIELD CONTACTS _ (wiring)

Diagram for CABINET CONTACTS _ _ (wiring)

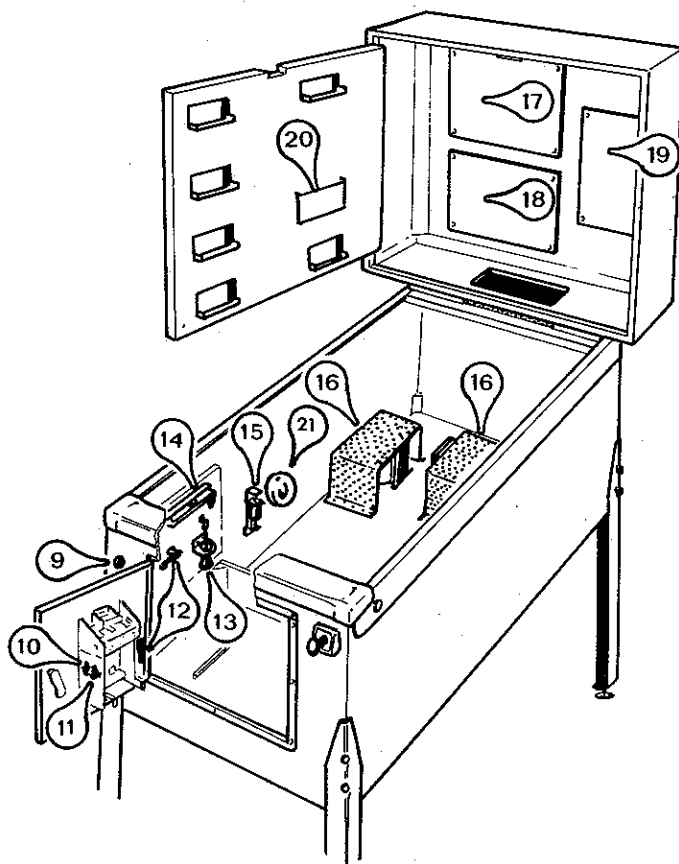
Diagram for FRONT DOOR _ _ _ _ _ (wiring)

Diagram for COILS _ _ _ _ _ (wiring)

Diagram for LAMPS _ _ _ _ _ (wiring)

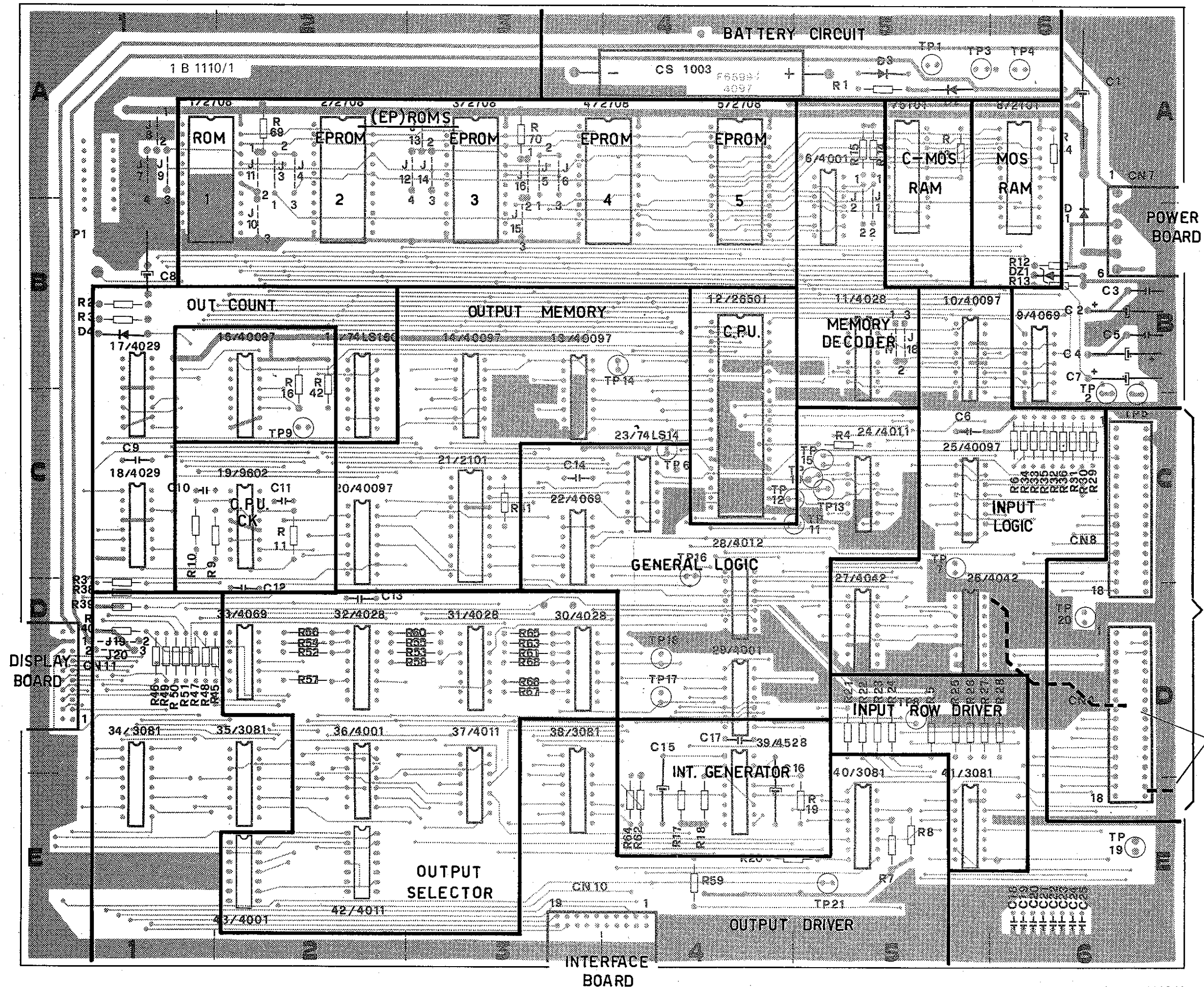


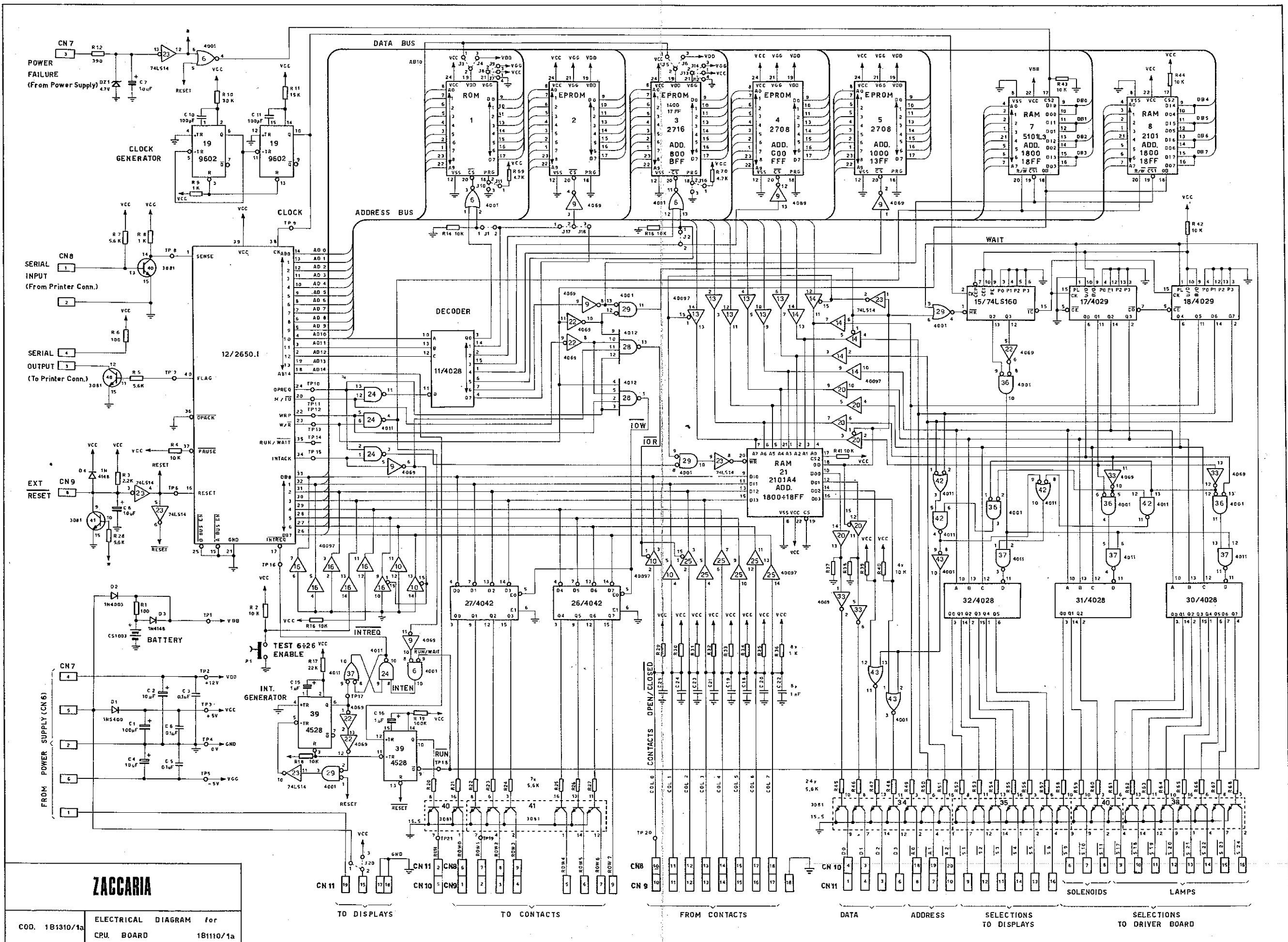
- 1 LIGHT EFFECTS
- 2 1st Player display
- 3 2nd Player display
- 4 Highest score display
- 5 Credit display
- 6 Display balls to play-match-game time bonus-bonus time countdown.
- 7 3rd Player display
- 8 4th Player display



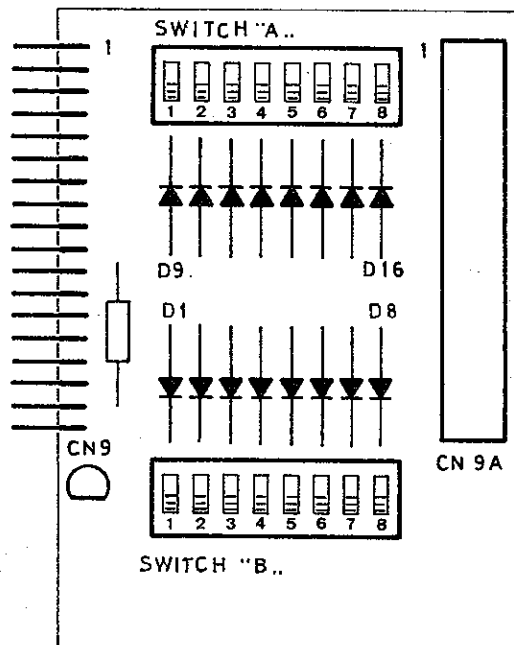
- 9 Credit button
- 10 High score reset
- 11 Self test button
- 12 Antichock tilt
- 13 Bob tilt
- 14 "Roll ball" tilt
- 15 Kicker
- 16 Transformers
- 17 CPU board
- 18 INTERFACE board
- 19 POWER board
- 20 SOUND board
- 21 Little bell

C.P.U. board



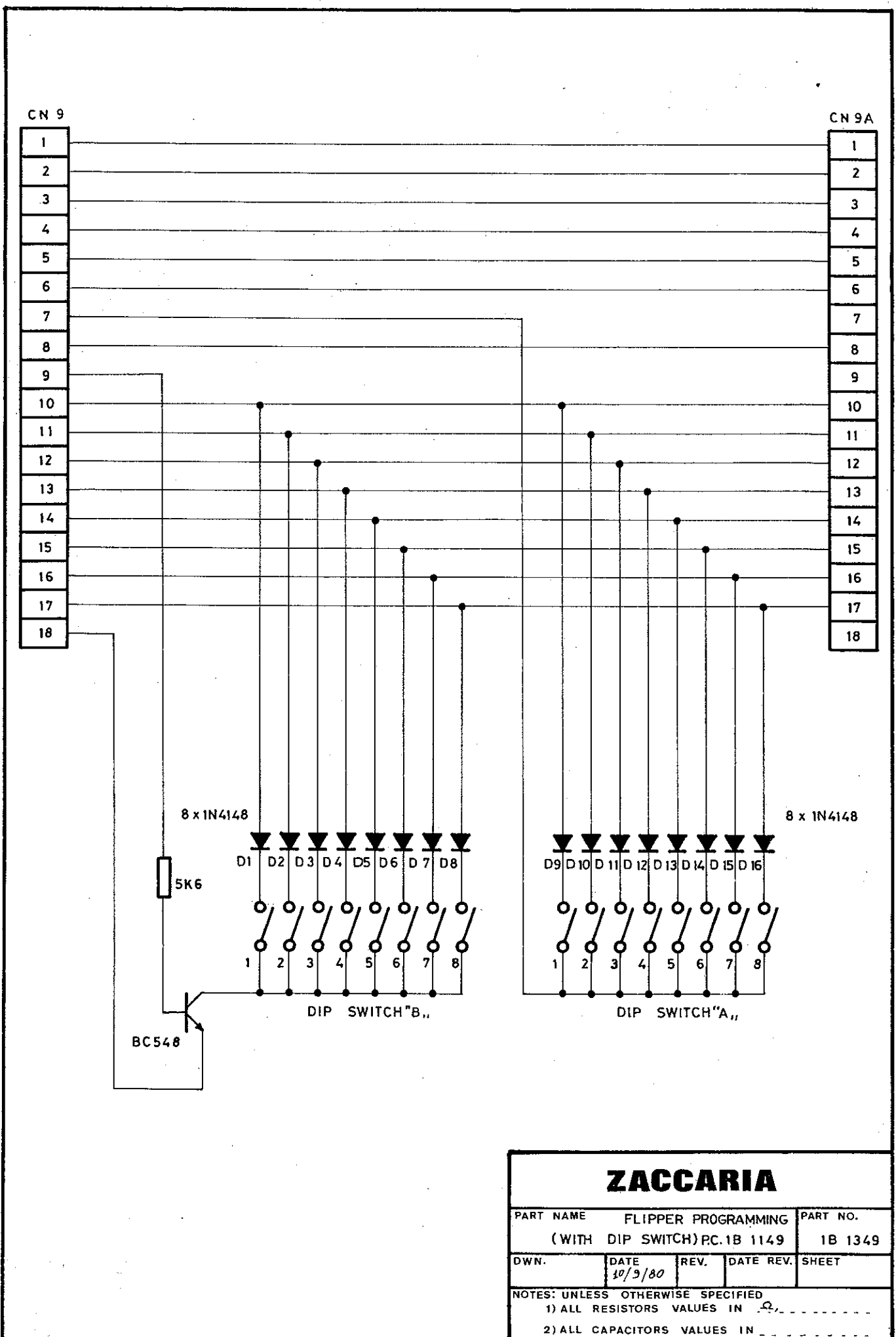


FLIPPER PROGRAMMING board



P.C. 1 B 1149

FLIPPER PROGRAMMING board



ZACCARIA

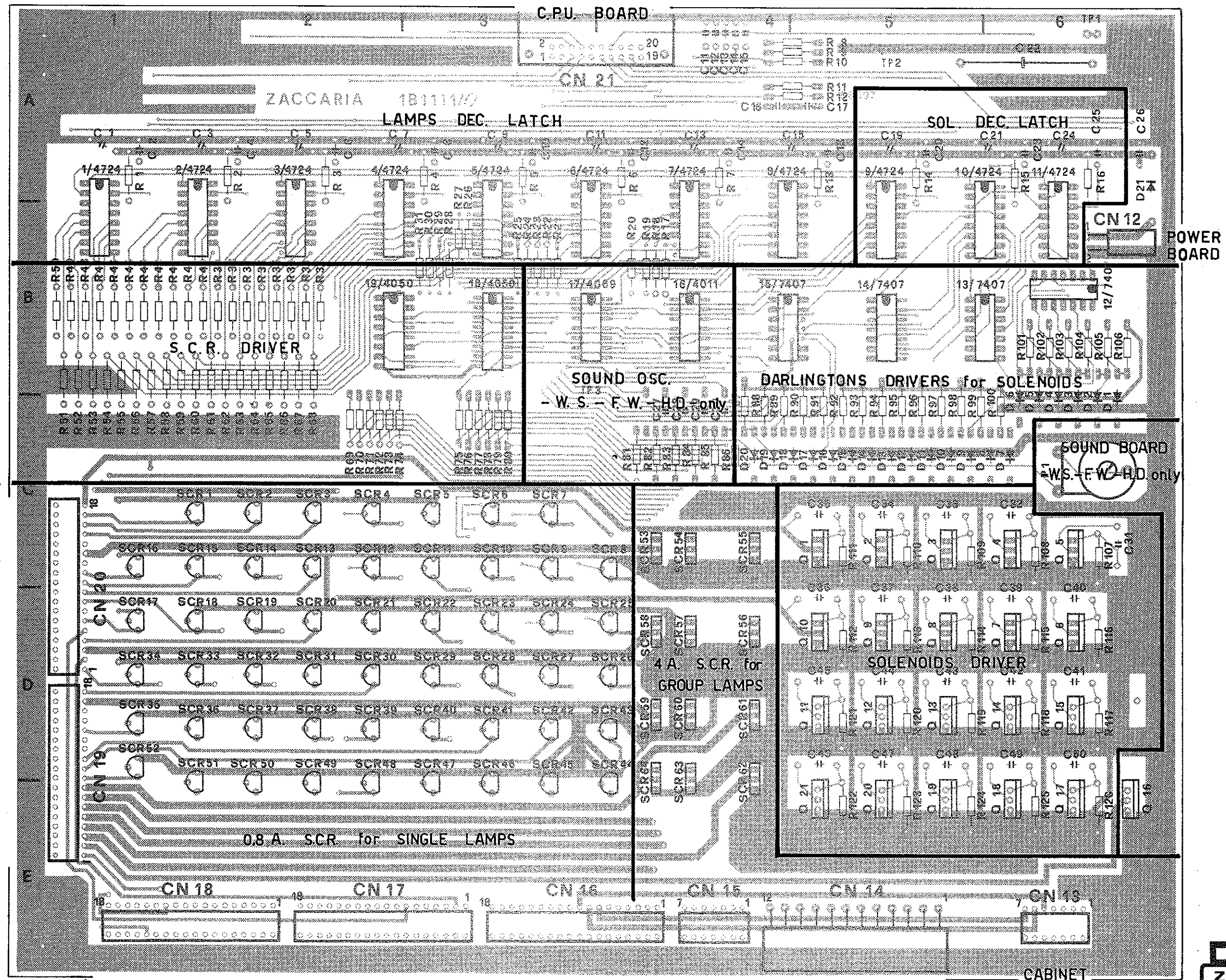
PART NAME FLIPPER PROGRAMMING (WITH DIP SWITCH) PC.1B 1149				PART NO. 1B 1349
DWN.	DATE 10/9/80	REV.	DATE REV.	SHEET

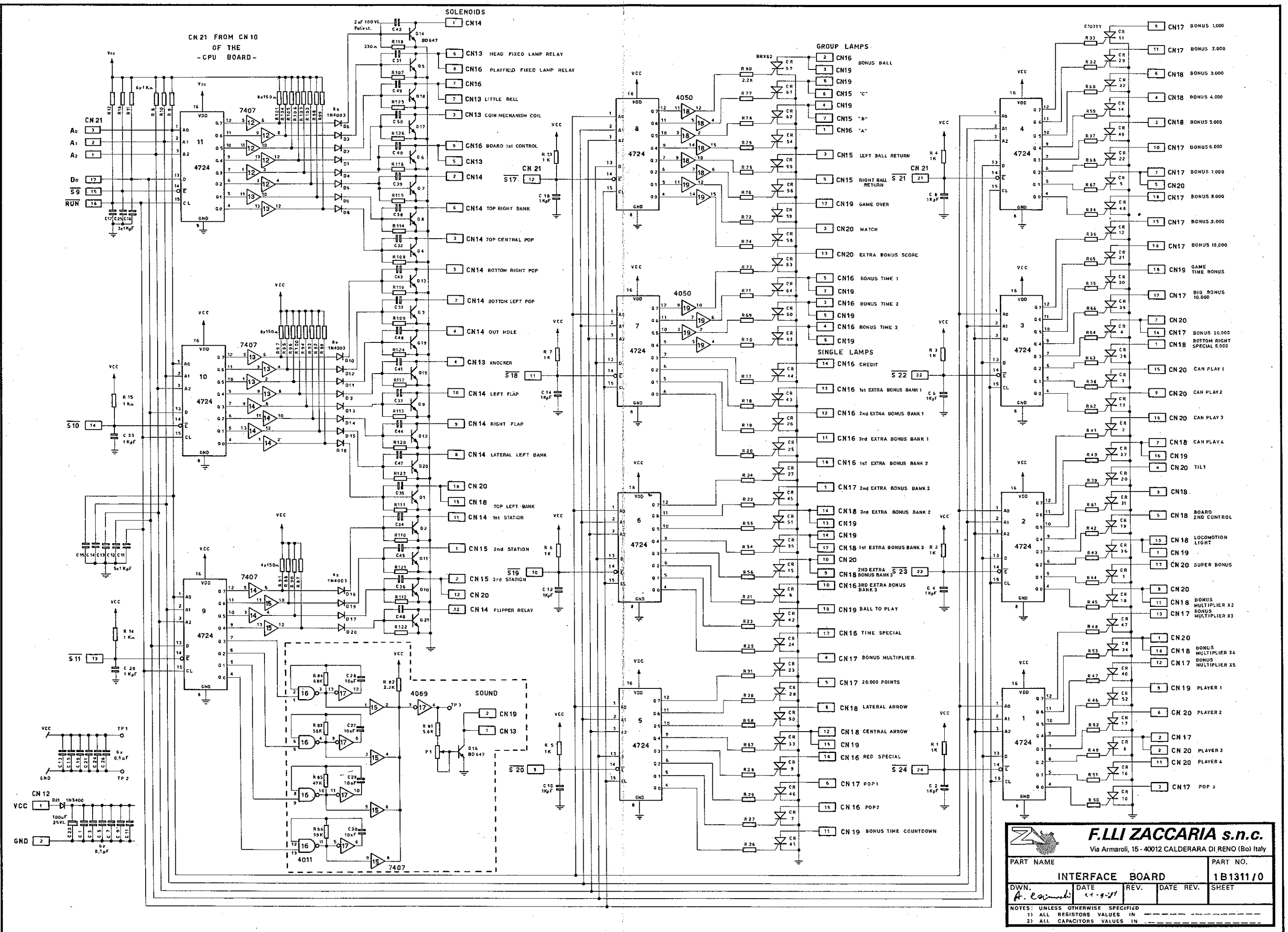
NOTES: UNLESS OTHERWISE SPECIFIED

1) ALL RESISTORS VALUES IN Ω

2) ALL CAPACITORS VALUES IN

INTERFACE board

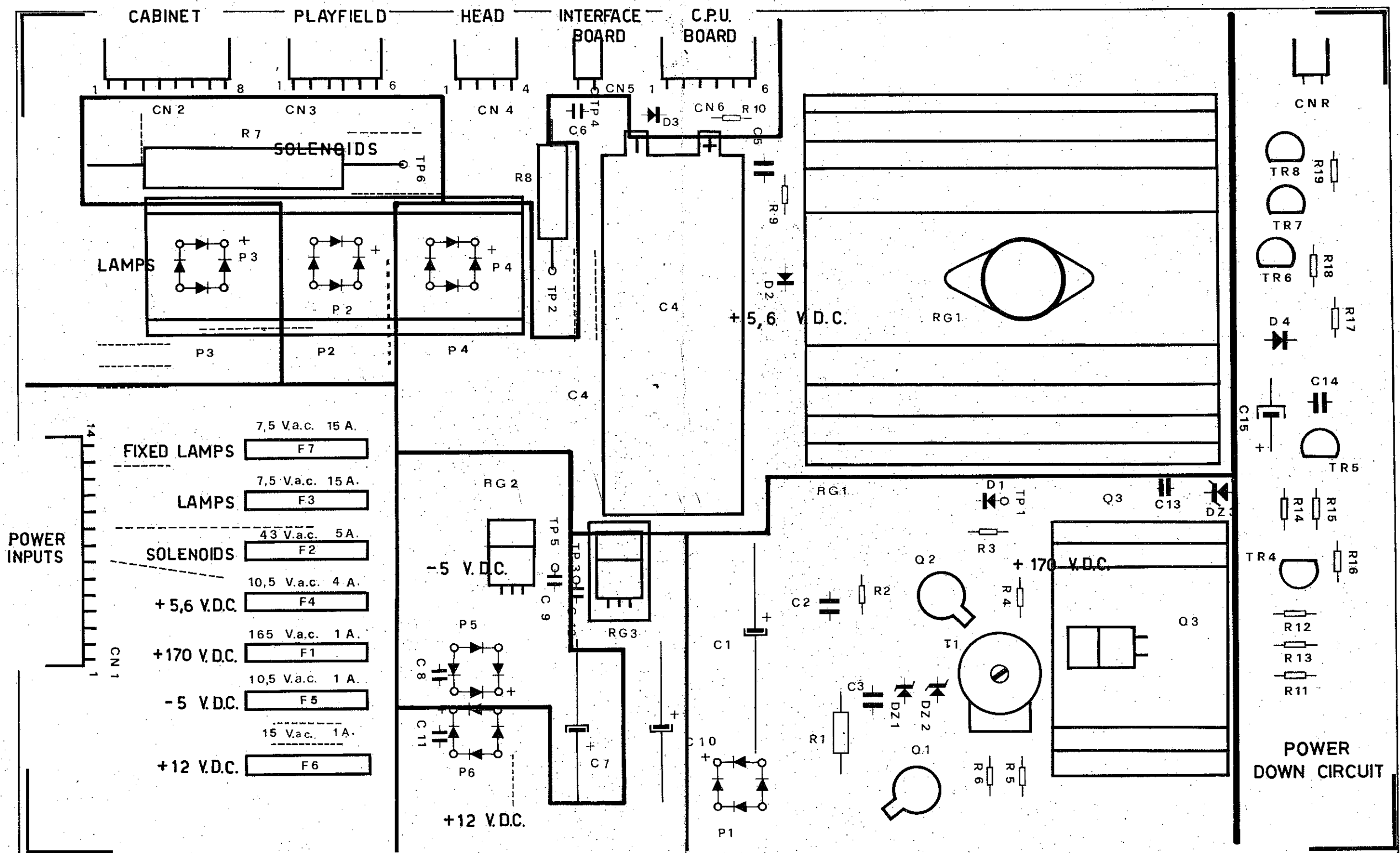




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PART NAME		PART NO.	
INTERFACE BOARD		1B1311/0	
DWN.	DATE	REV.	DATE REV.
A. Zaccaria	11-9-81		
NOTES: UNLESS OTHERWISE SPECIFIED			
1) ALL RESISTORS VALUES IN			
2) ALL CAPACITORS VALUES IN			

POWER board

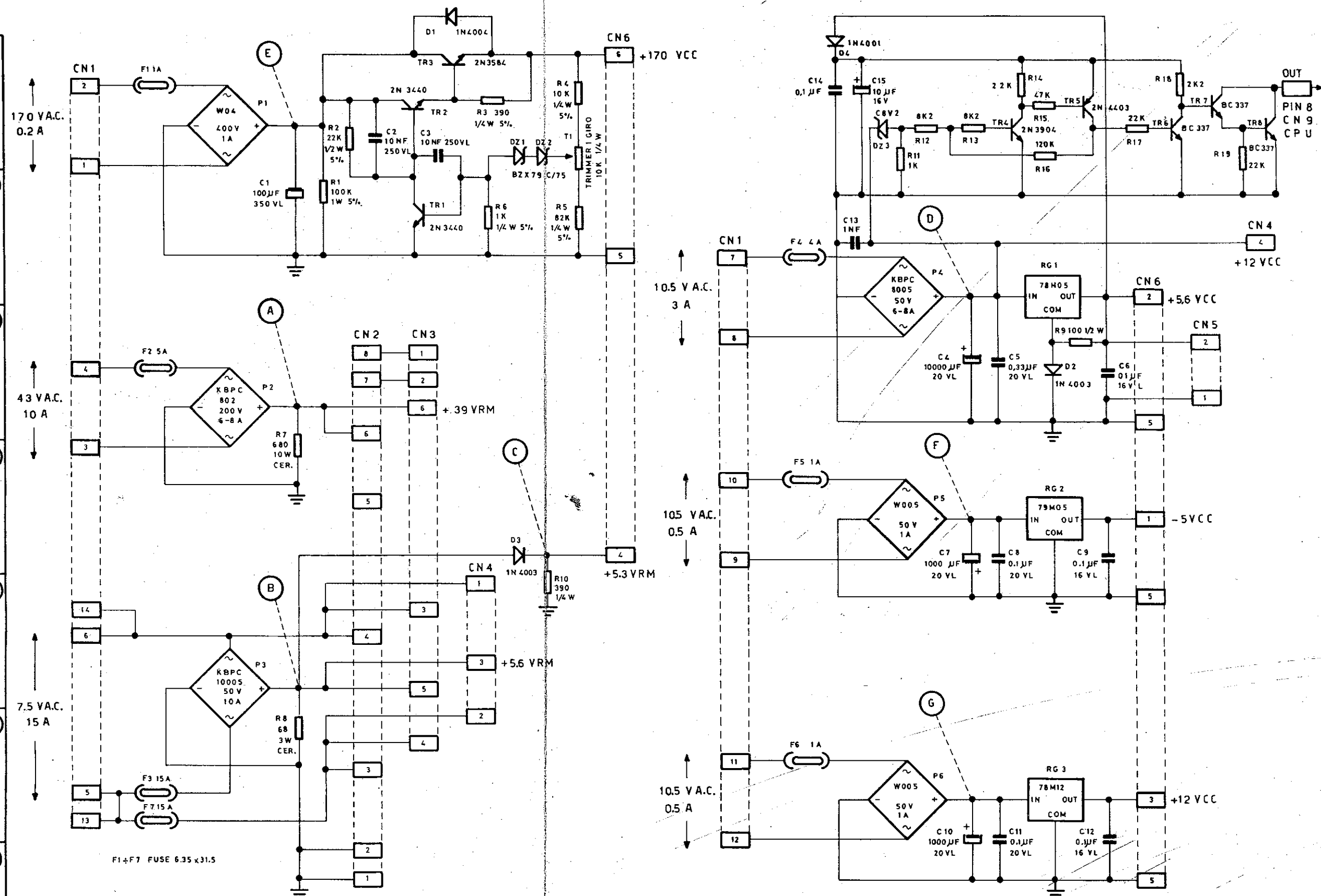
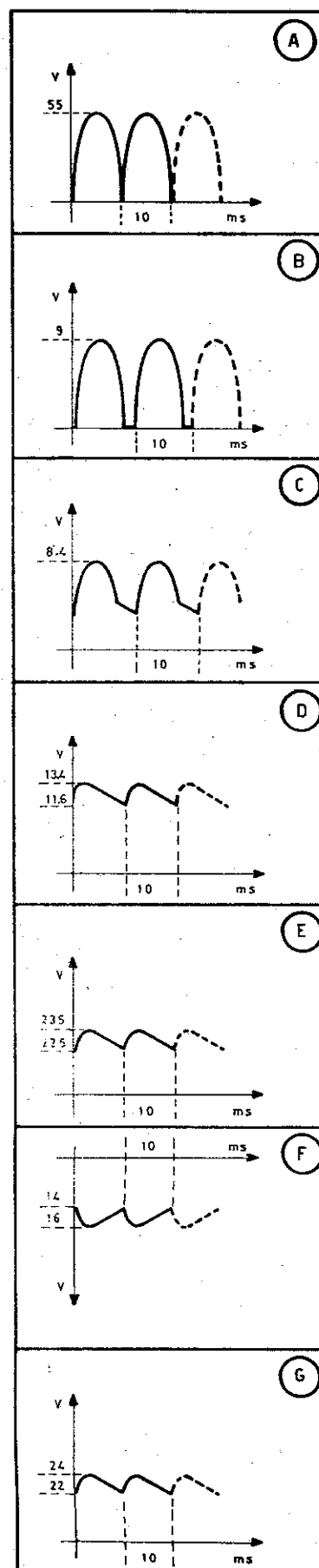


P.C. 1 B 1109/4

POWER board

OSCILLOSCOPE

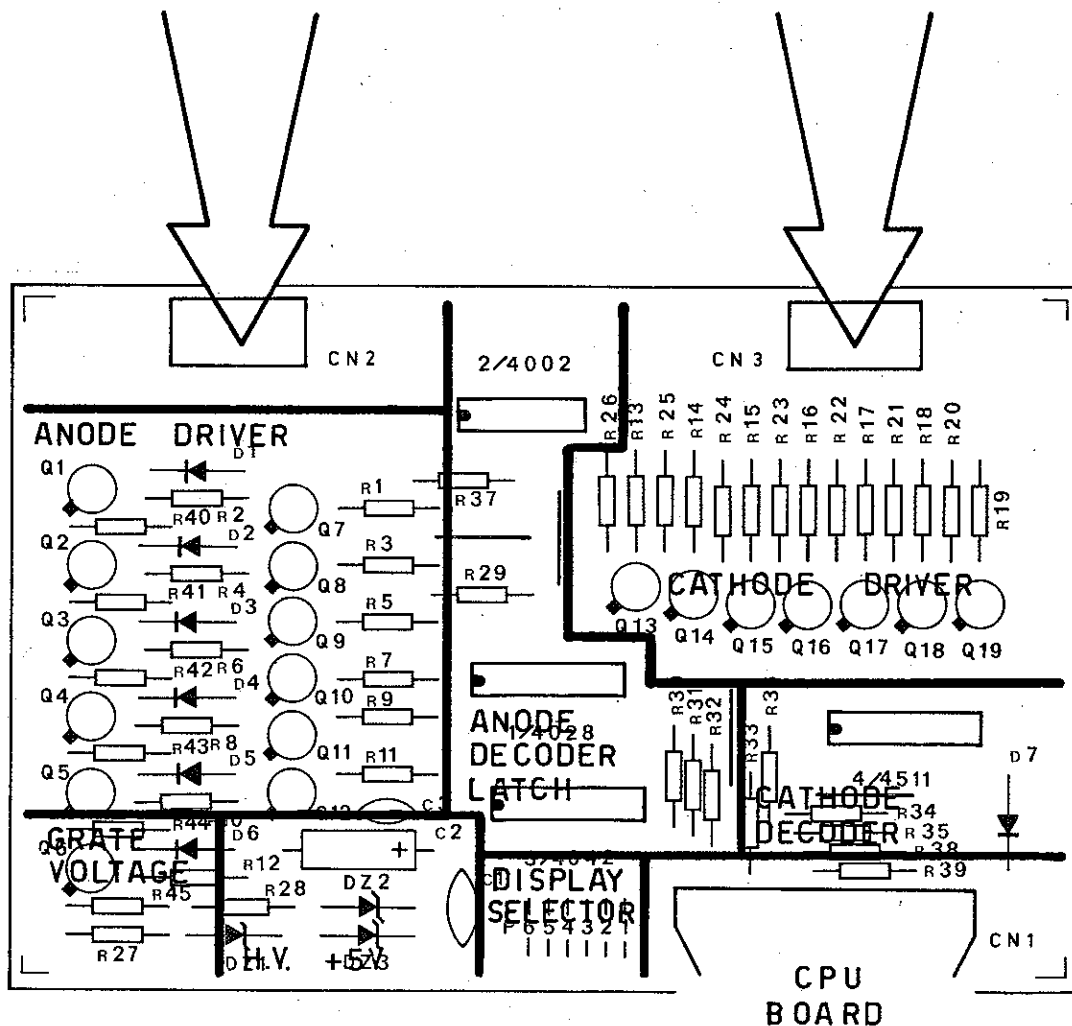
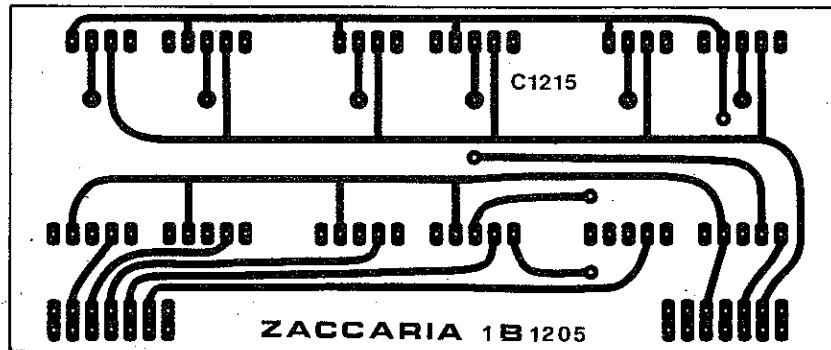
DEFINABLE CURVES



ZACCARIA

COD 181309/4	ELECTRICAL DIAGRAM For POWER BOARD 1B1109/4
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DISPLAY boards



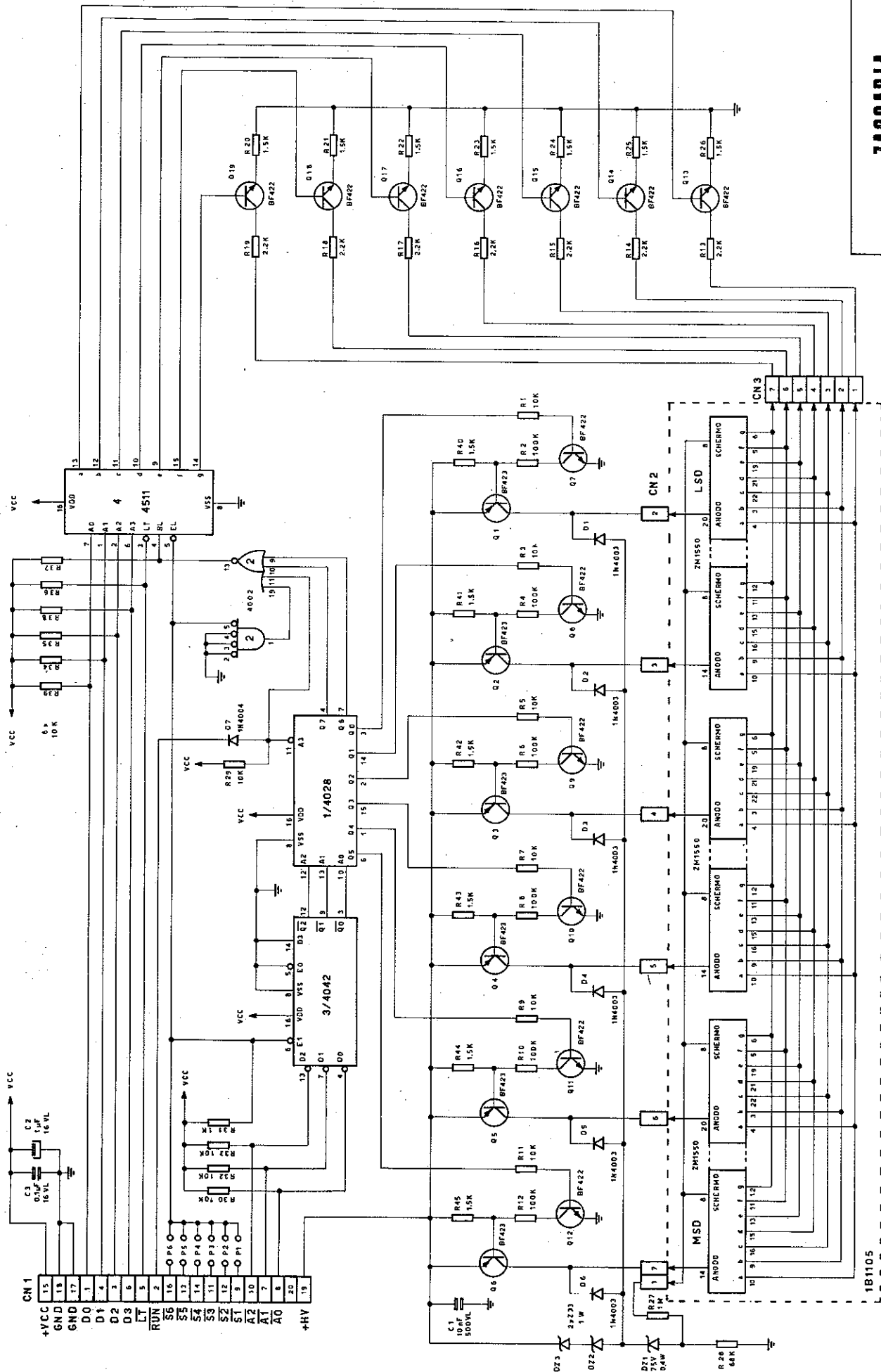
P.C. 1 B 1104/0



DISPLAY boards

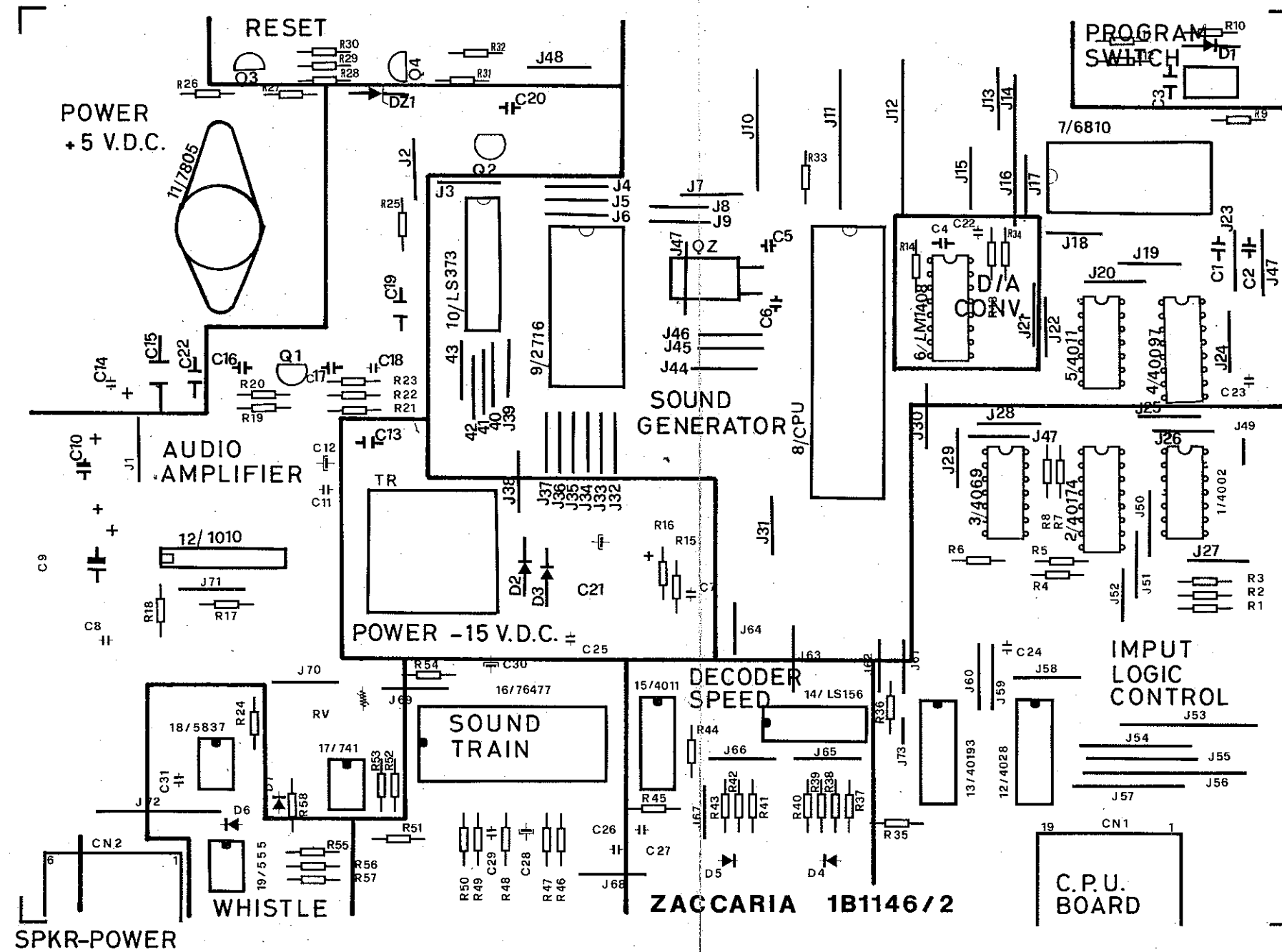
ZACCARIA

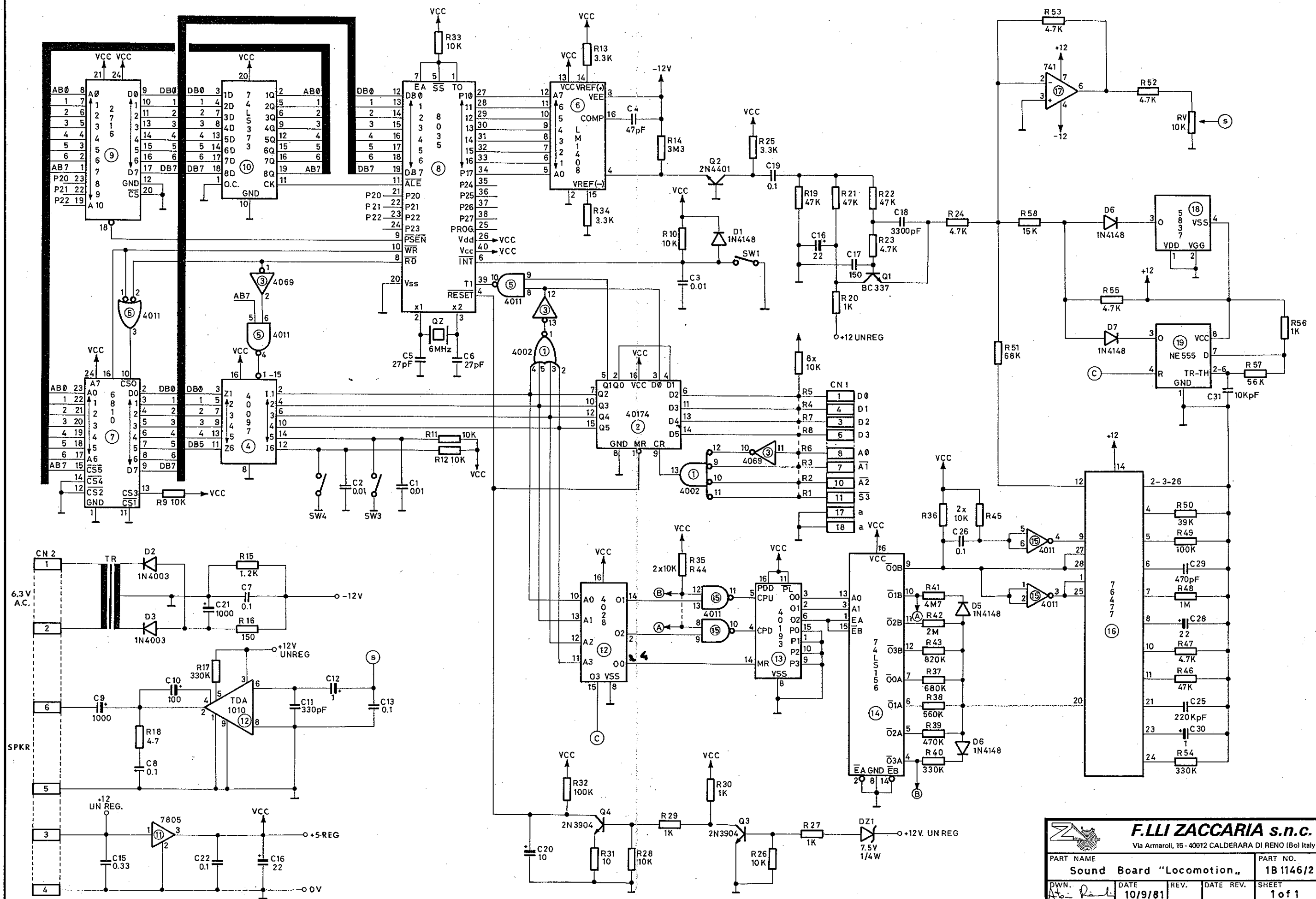
COD. IB1304/0
ELECTRICAL DIAGRAM for
IB1104/0
DRIVER DISPLAY BOARD



IB1105

SOUND board







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PART NAME
Sound Board "Locomotion."

PART NO.
1B 1146/2

DWN. <i>Ator R...</i>	DATE 10/9/81	REV. 1	DATE REV. 10/9/81
SHEET 1 of 1			

NOTES: UNLESS OTHERWISE SPECIFIED
1) ALL RESISTORS VALUES IN Ω μ K M
2) ALL CAPACITORS VALUES IN pF μF mF

VIOLET-YELLOW

VIOLET-BROWN

RED-YELLOW

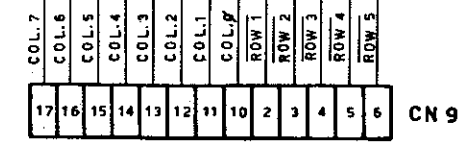
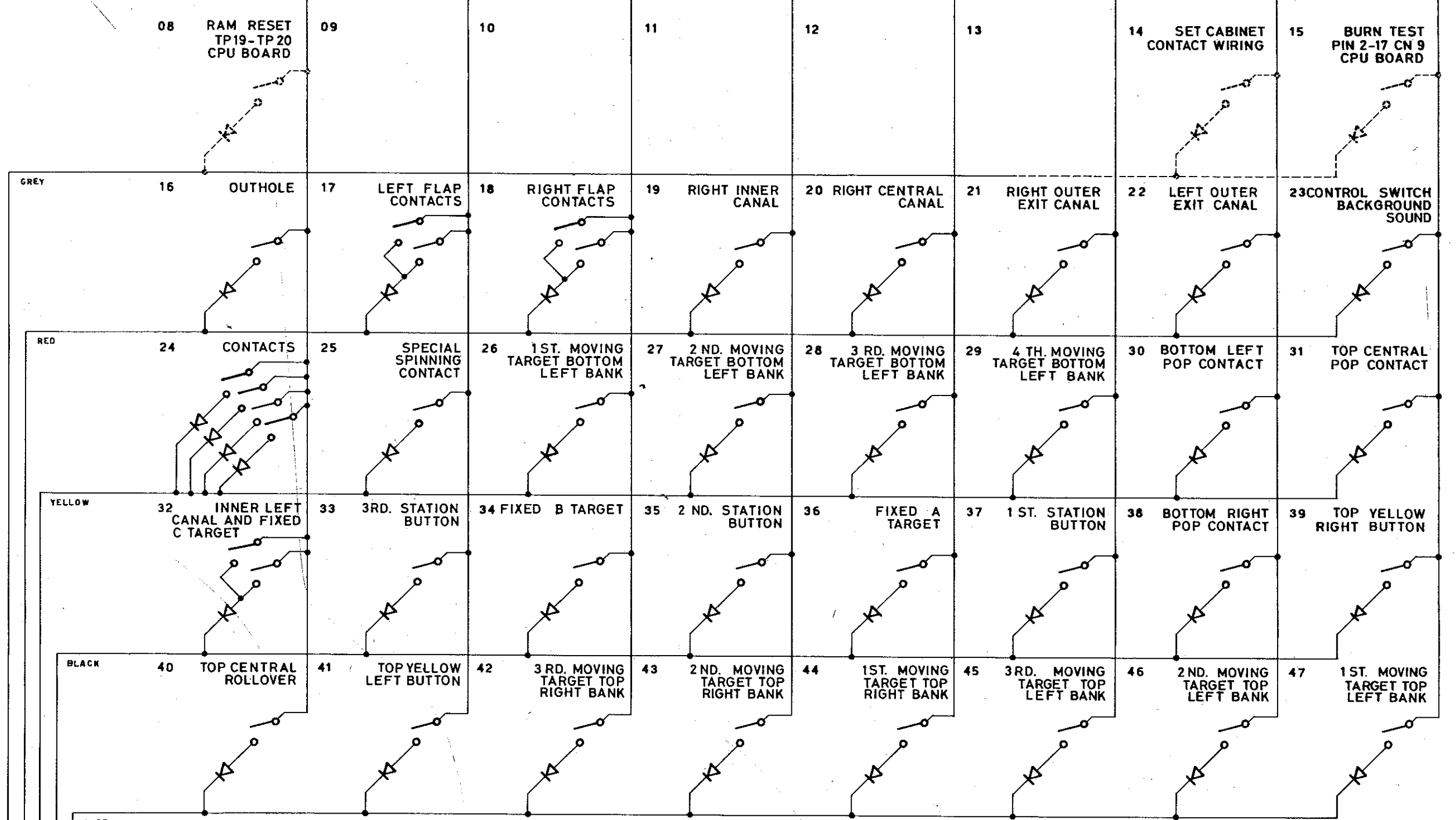
BLACK-ORANGE

BLACK-YELLOW

RED-GREEN

BLACK-WHITE

GREY-WHITE

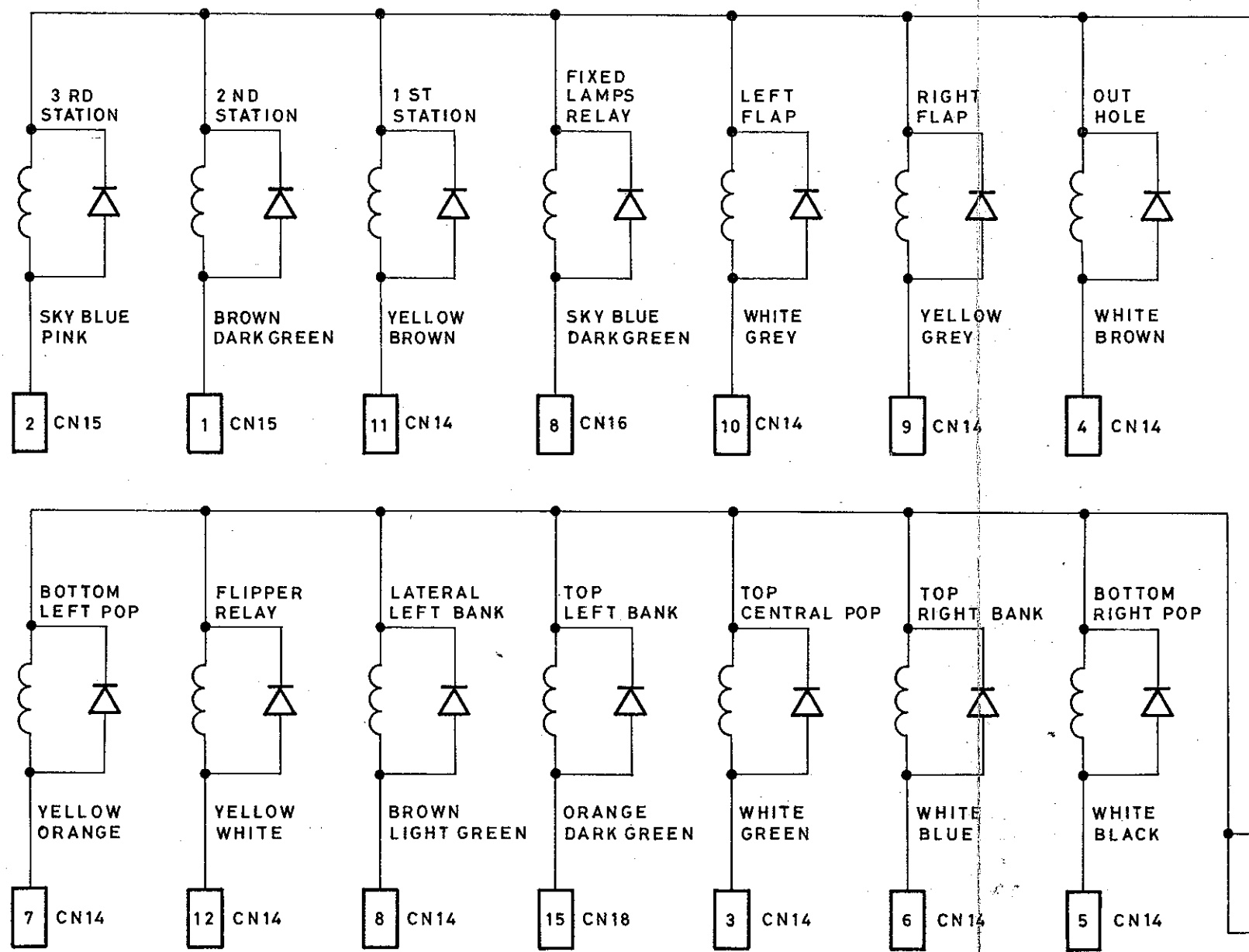


ALL DIODES ARE
1N4148 OR FDM900

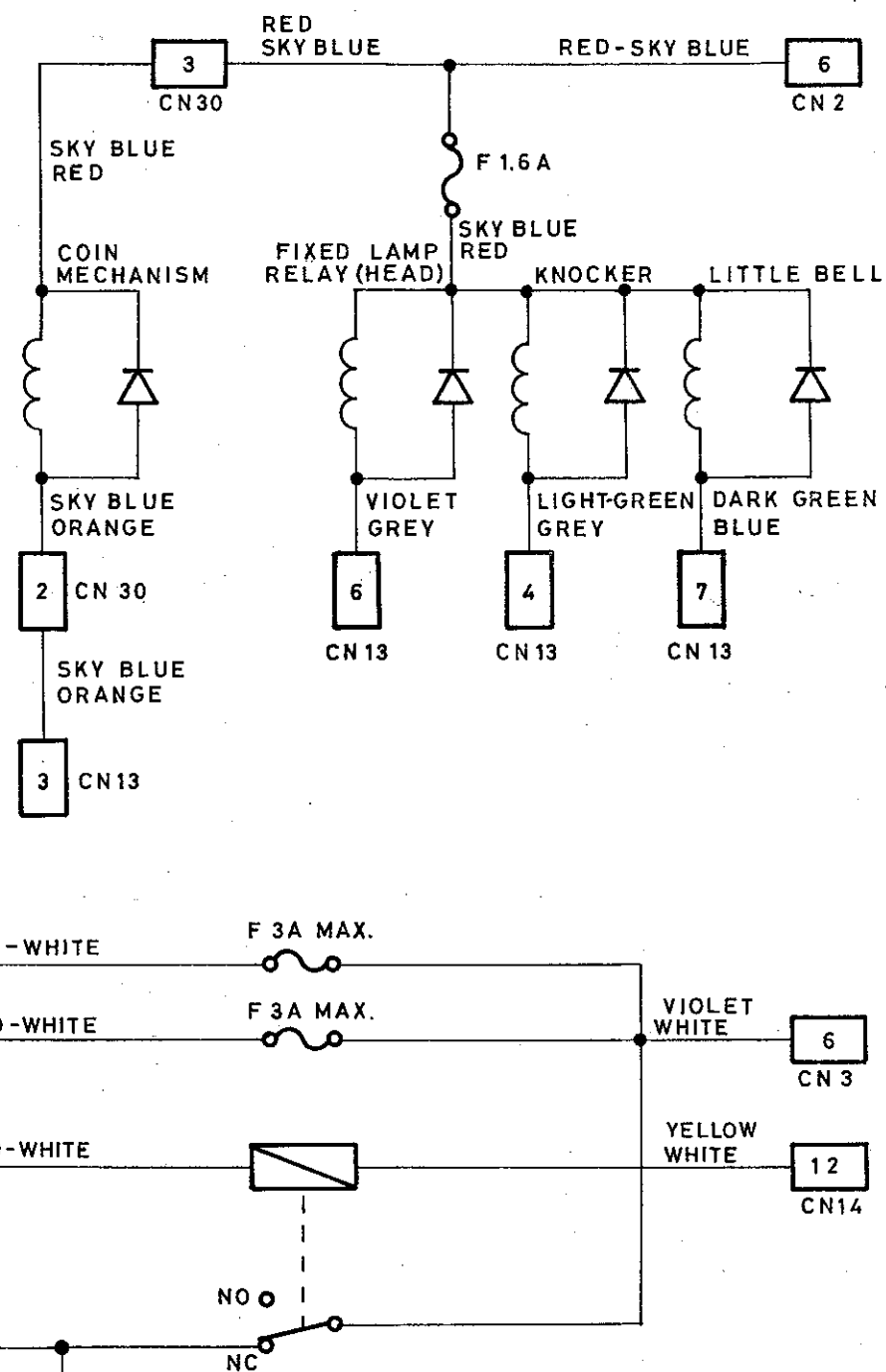
LOCOMOTION

		F.LI ZACCARIA s.n.c.	
Via Armadori, 15 - 40012 CALDERARA DI RENO (Bo) Italy			
PART NAME Diagram for Playfield contacts wiring		PART NO.	
DWN. <i>A. R.</i>	DATE 10/9/81	REV.	DATE REV.
NOTES: UNLESS OTHERWISE SPECIFIED		SHEET 1	
1) ALL RESISTORS VALUES IN			
2) ALL CAPACITORS VALUES IN			

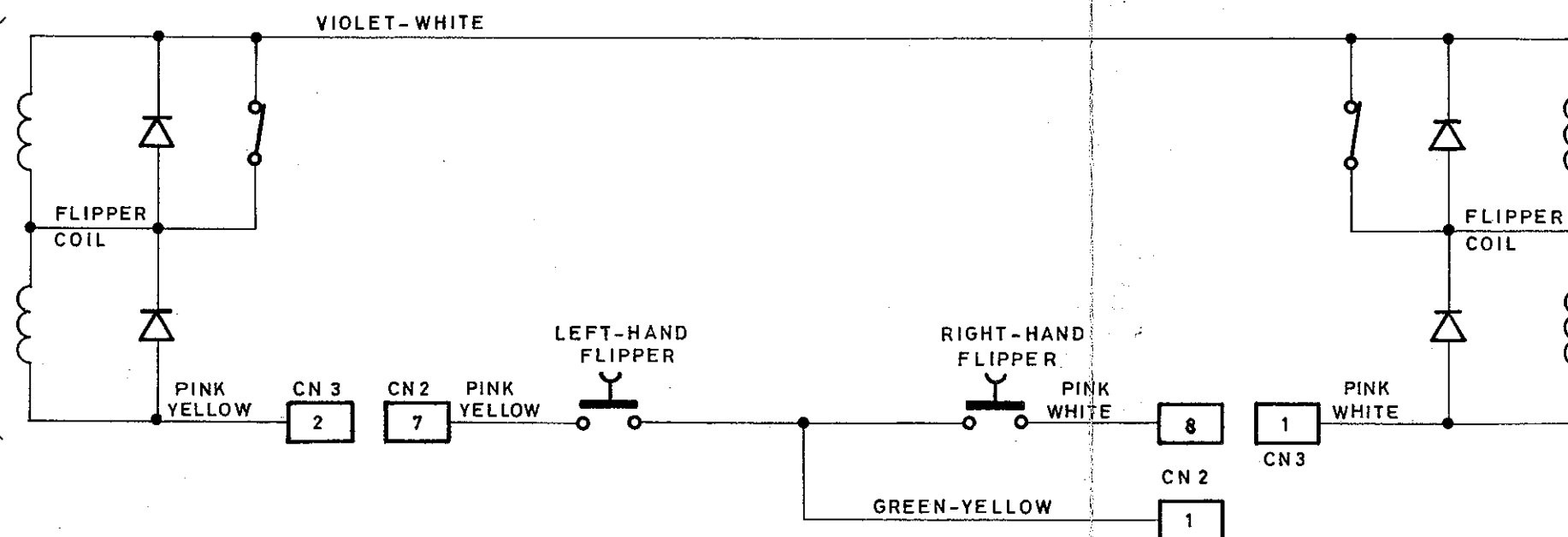
PLAYFIELD COILS



CABINET COILS



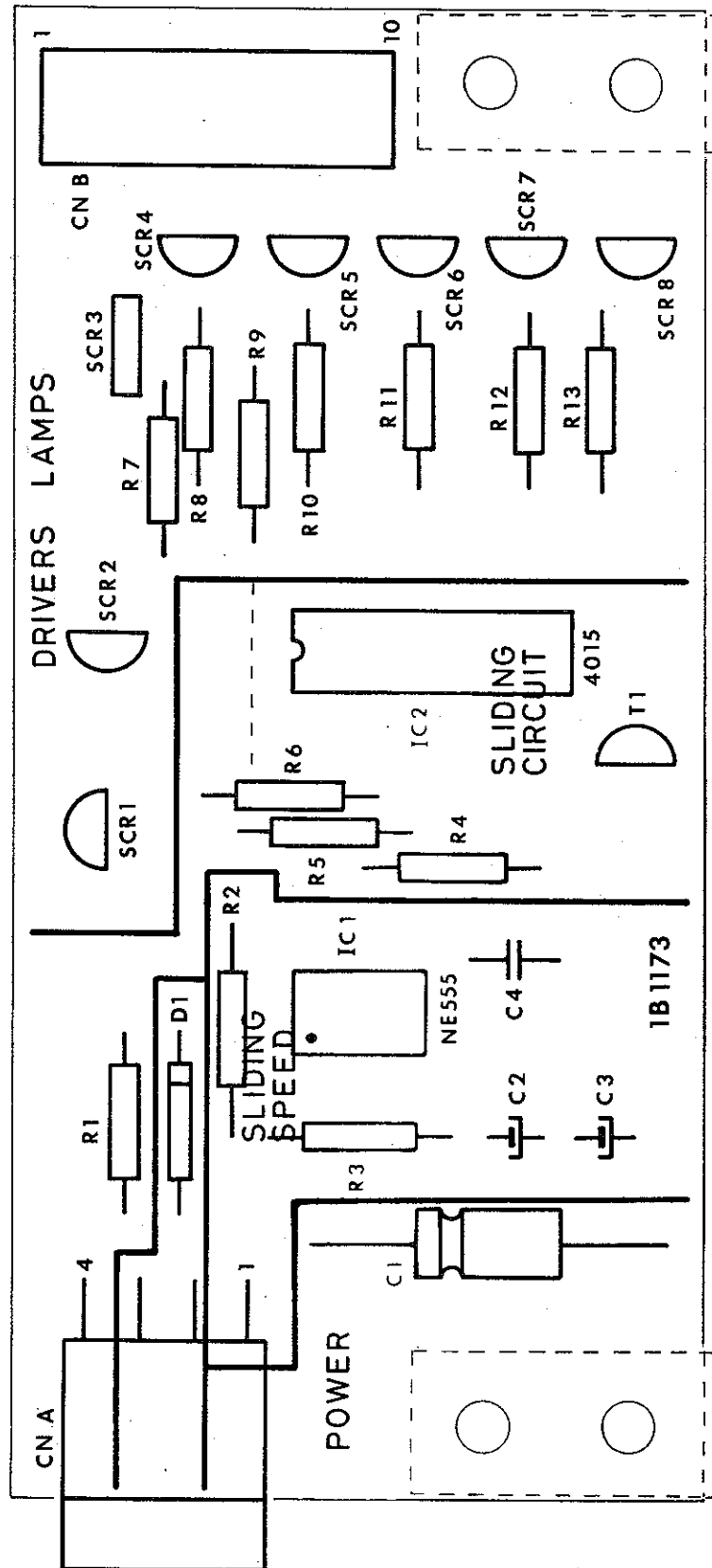
FLIPPERS



LOCOMOTION

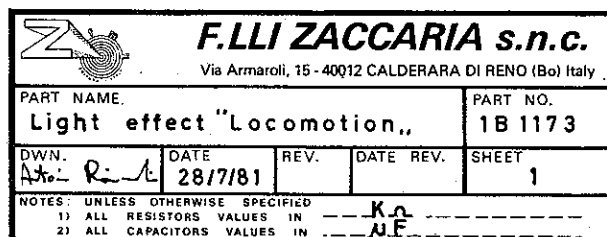
F.LLI ZACCARIA s.n.c. Via Armadori, 15 - 40012 CALDERARA DI RENO (Bo) Italy	
PART NAME Electrical diagram for coil wiring	PART NO. 1
DWN. 11/9/81	REV. 1
NOTES: UNLESS OTHERWISE SPECIFIED 11 ALL RESISTORS VALUES IN 23 ALL CAPACITORS VALUES IN	

LIGHT EFFECT board

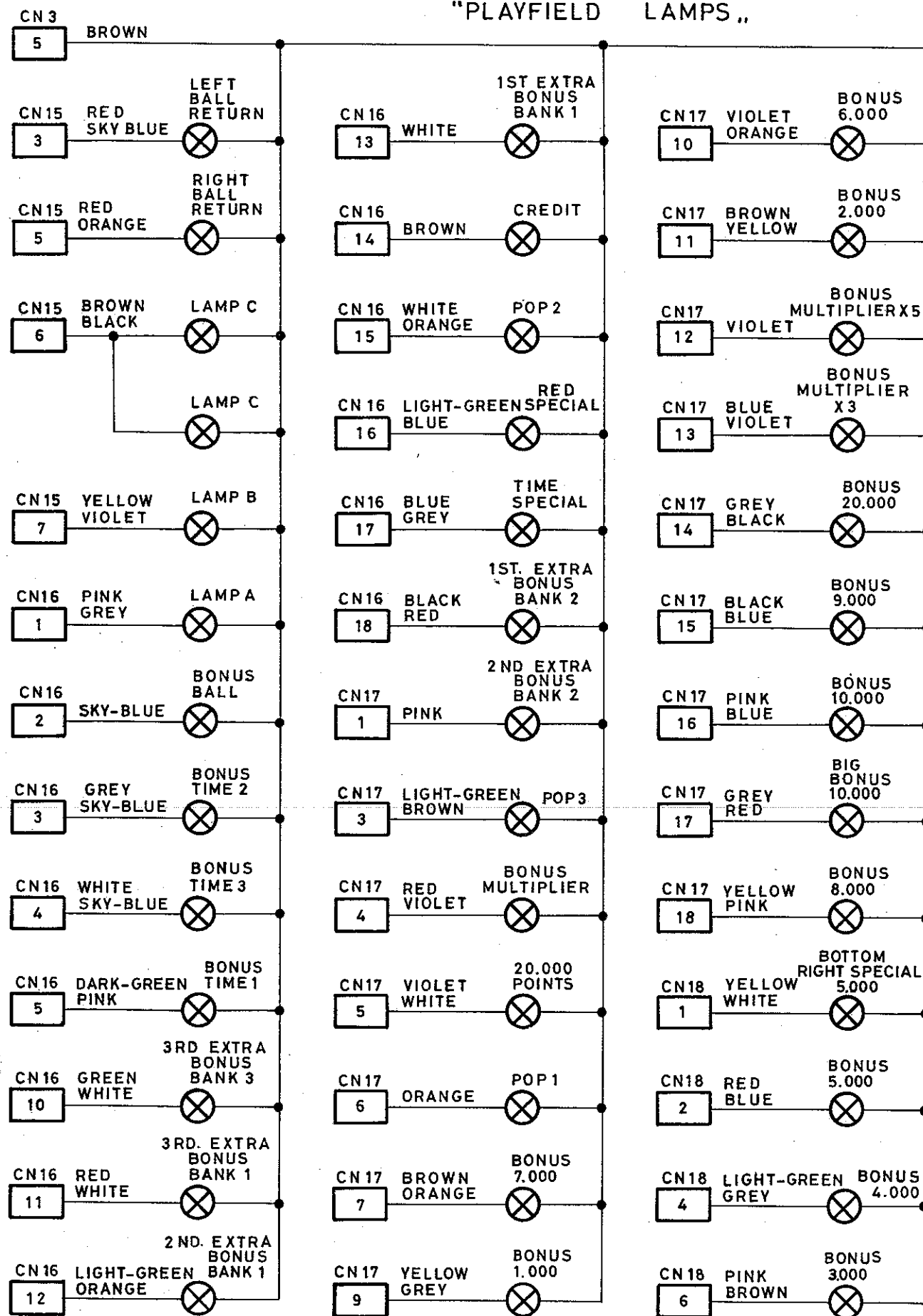


SCALE 2:1

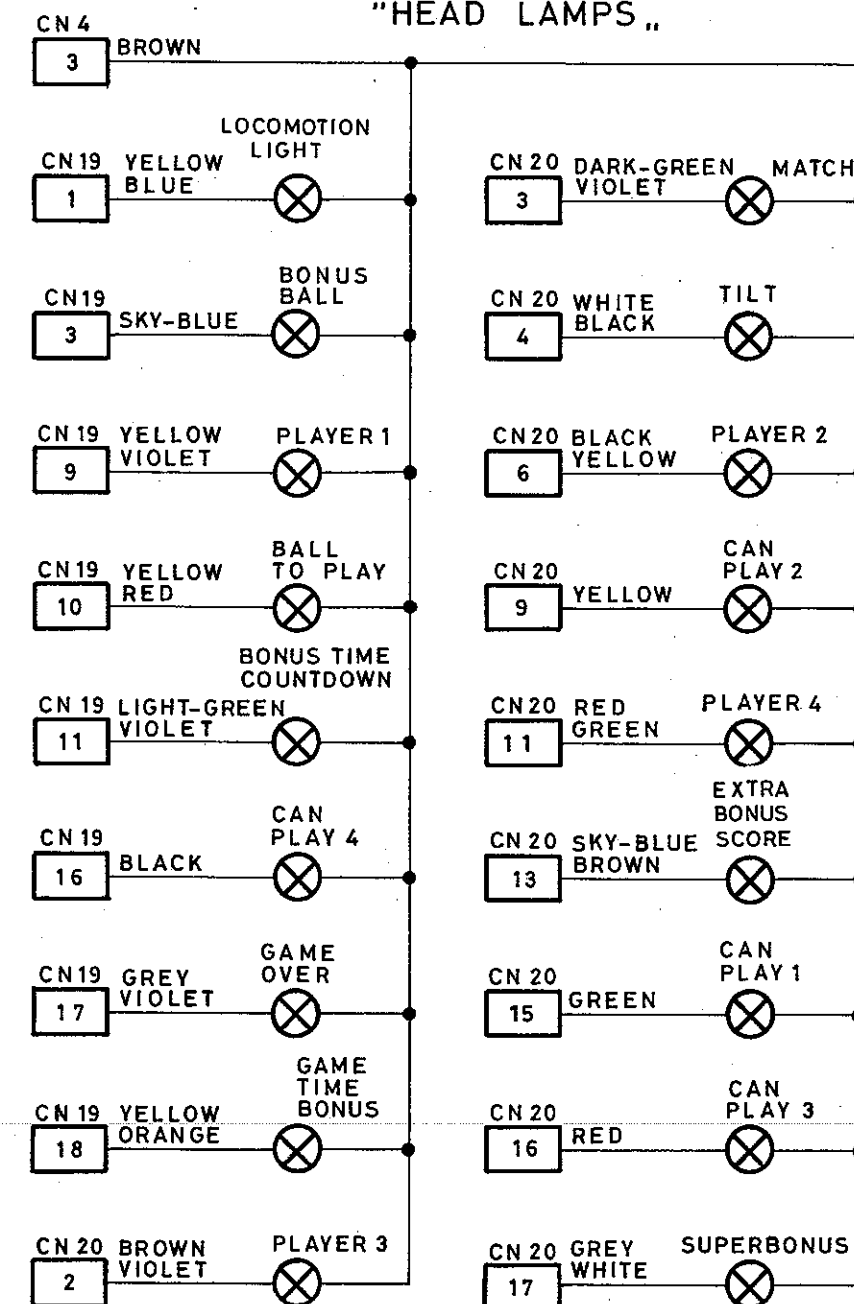
 F.LLI ZACCARIA s.n.c. Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) Italy					
PART NAME layout components for light effect "Locomotion,,				PART NO. 1B 1173	
DWN. Ato. R. A.	DATE 29/7/81	REV.	DATE REV.	SHEET 1	
NOTES: UNLESS OTHERWISE SPECIFIED 1) ALL RESISTORS VALUES IN 2) ALL CAPACITORS VALUES IN					



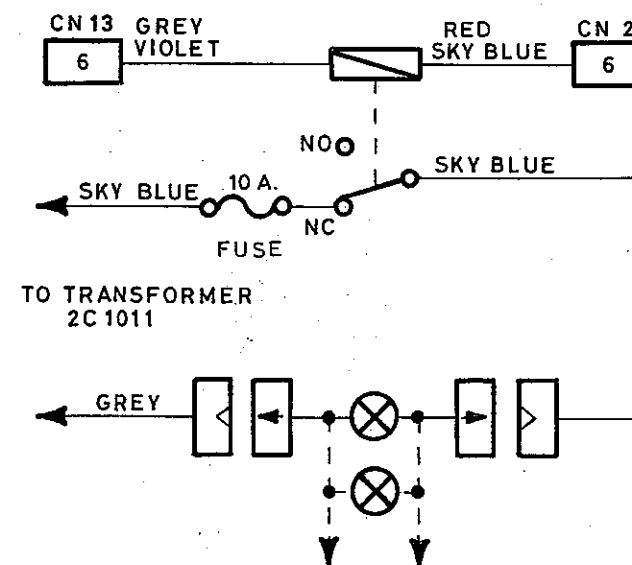
"PLAYFIELD LAMPS,,



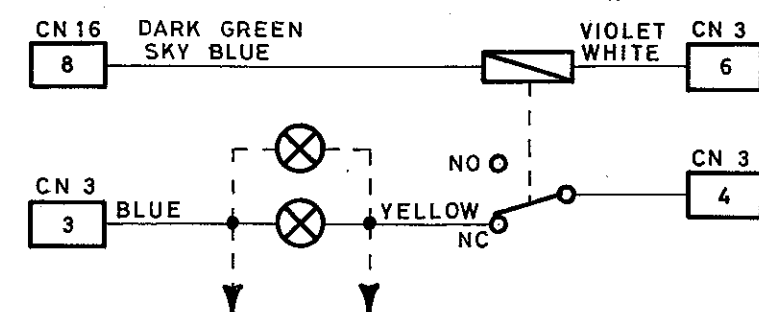
"HEAD LAMPS,,



"HEAD FIXED LAMPS,,



"PLAYFIELD FIXED LAMPS,,



LOCOMOTION

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PART NAME: Electrical diagram for lamps wiring		PART NO.		
DWN. 10/9/81	DATE 10/9/81	REV.	DATE REV.	SHEET 1
NOTES: UNLESS OTHERWISE SPECIFIED 1) ALL RESISTORS VALUES IN 2) ALL CAPACITORS VALUES IN				

