

ZACCARIA®



Electrical Diagrams

LIST OF ILLUSTRATIONS

JUMP LIST FOR MEMORIES SELECTION

BLOCK DIAGRAM

ASSEMBLY DRAWING

POWER WIRING

LAYOUT } CPU
DIAGRAM }

LAYOUT } INTERFACE
DIAGRAM }

LAYOUT } POWER
DIAGRAM }

LAYOUT } DRIVER DISPLAY
DIAGRAM }

LAYOUT } SOUND & SPEECH
DIAGRAM }

PLAYFIELD CONTACTS WIRING

COIL WIRING

PLAYFIELD & HEAD LAMPS WIRING

CABINET & FRONT DOOR WIRING

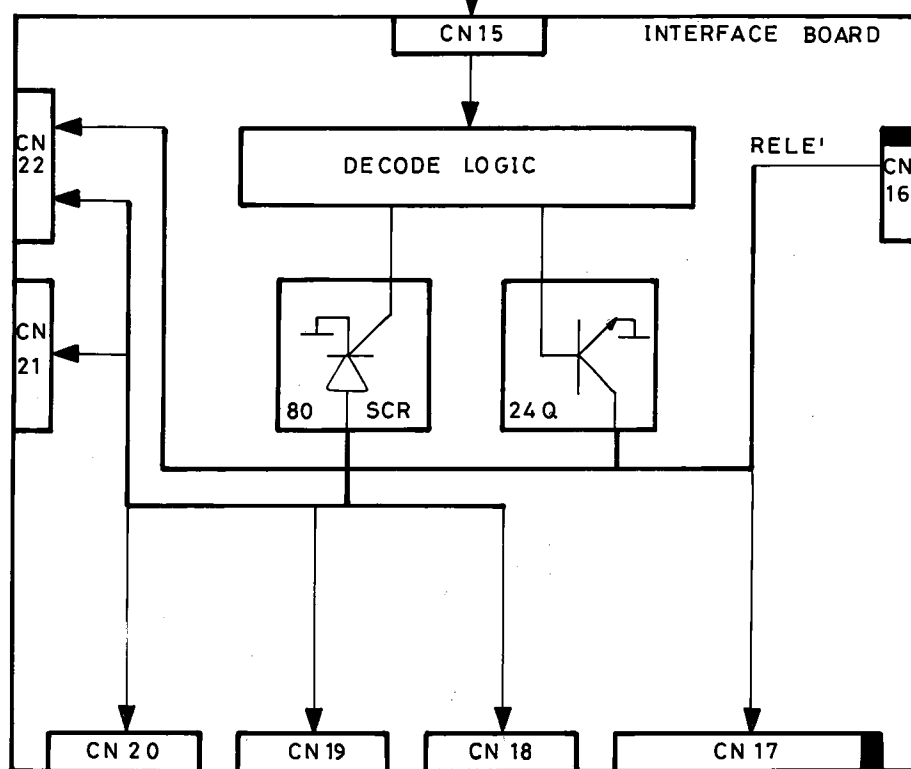
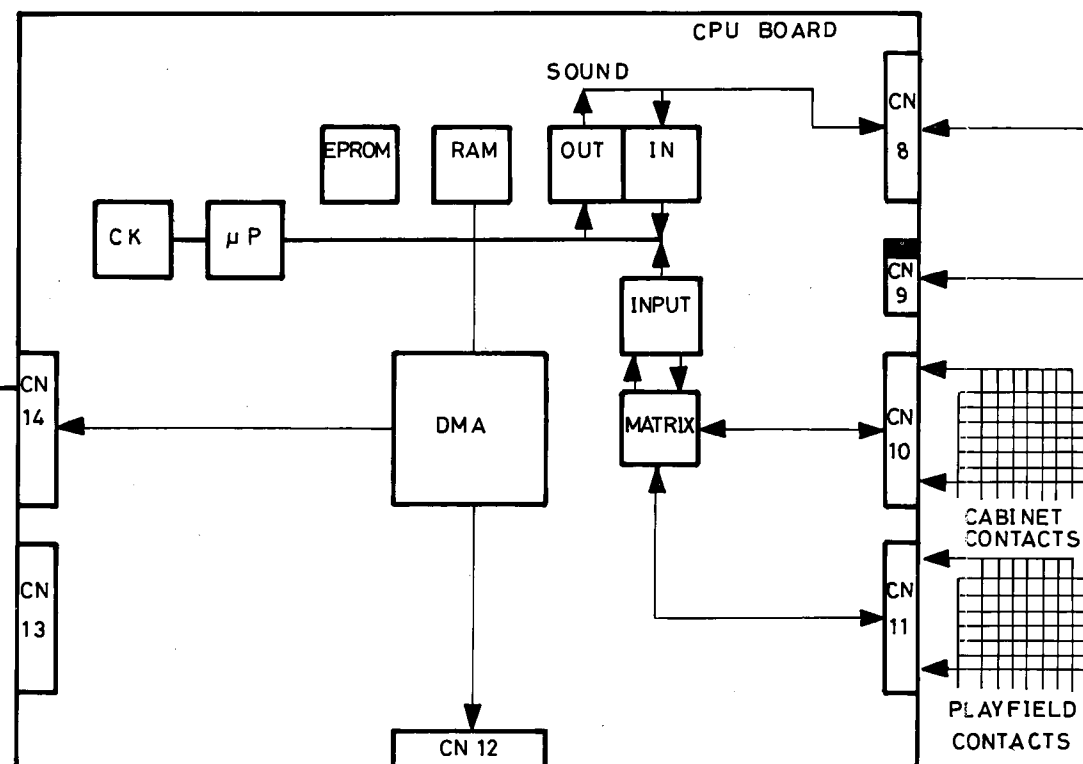
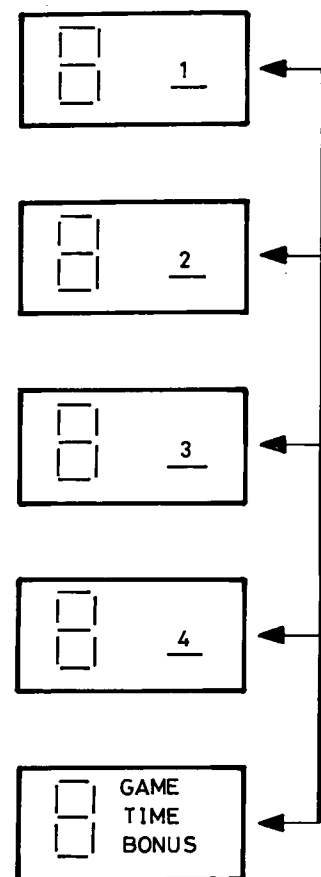
POWER SUPPLY

COLOR CODE

WIRES CUTAWAY
VIEW LIST

Black	0	mm ² 0,22	/1
Brown	1	mm ² 0,35	/2
Red	2	mm ² 0,5	/3
Orange	3	mm ² 0,9	/4
Yellow	4	mm ² 1,5	/5
Green	5		
Blue	6		
Violet	7		
Grey	8		
White	9		
Pink	11		
Light Blue	12		

DRIVER DISPLAY BOARDS



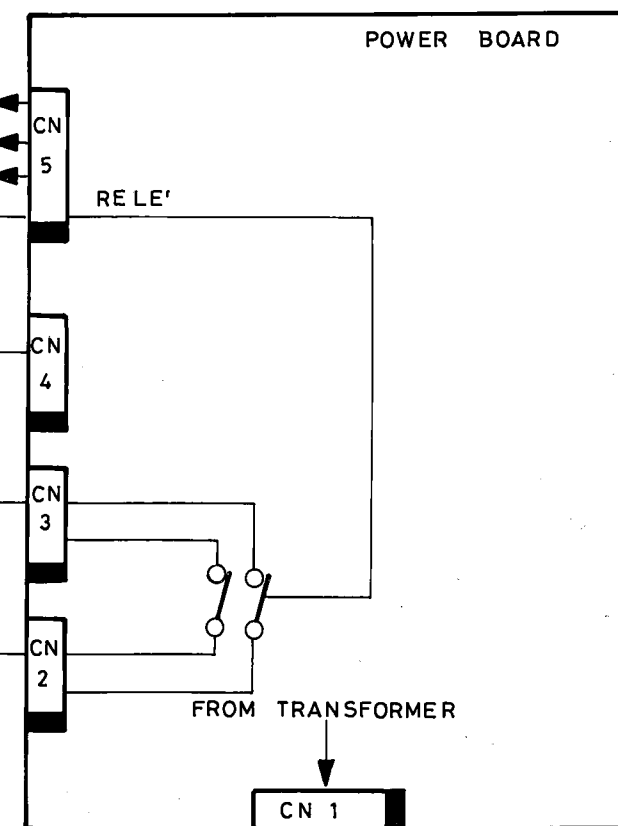
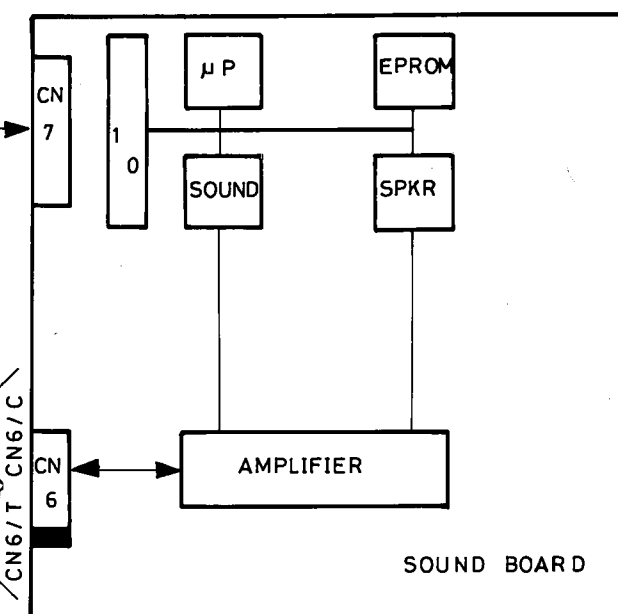
(HEAD SOLENOIDS)
HEAD LAMPS

PLAYFIELD LAMPS

PLAYFIELD SOLENOIDS
CABINET SOLENOIDS

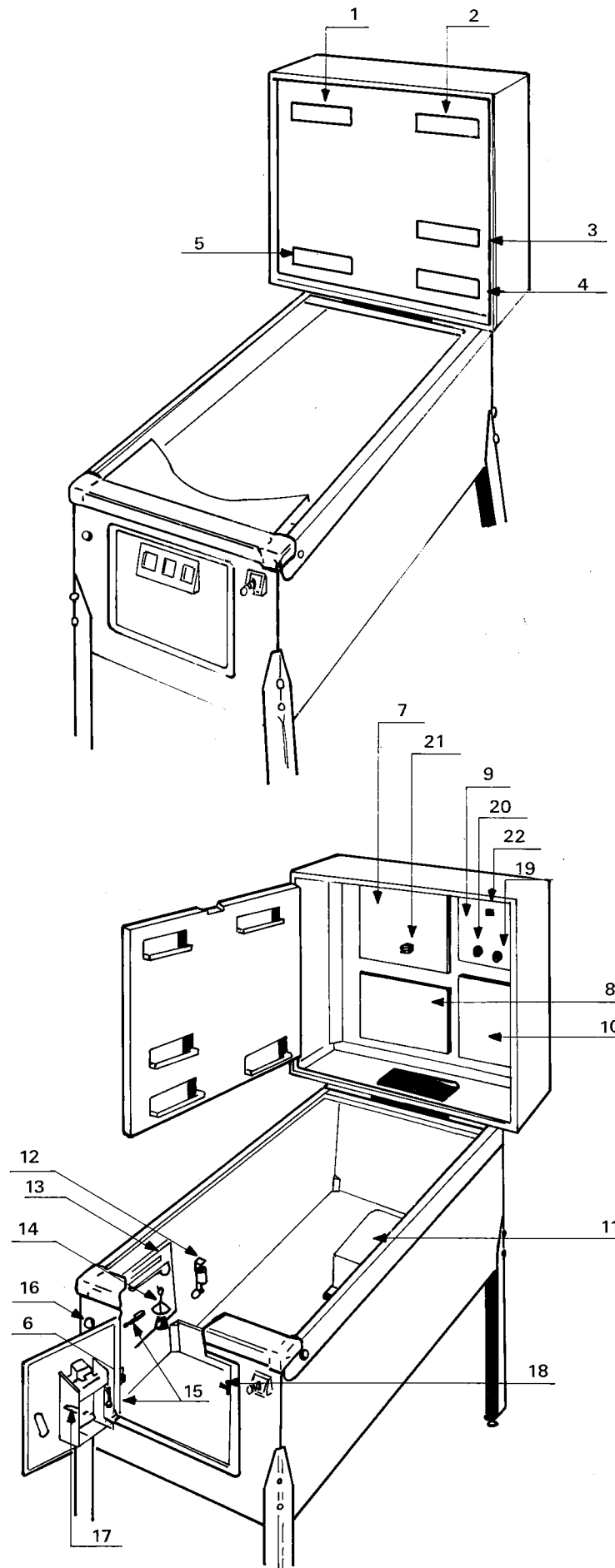
GND +5 +170 R.F.

GND +5
POWER TO HEAD
POWER TO PLAYFIELD
POWER TO CABINET

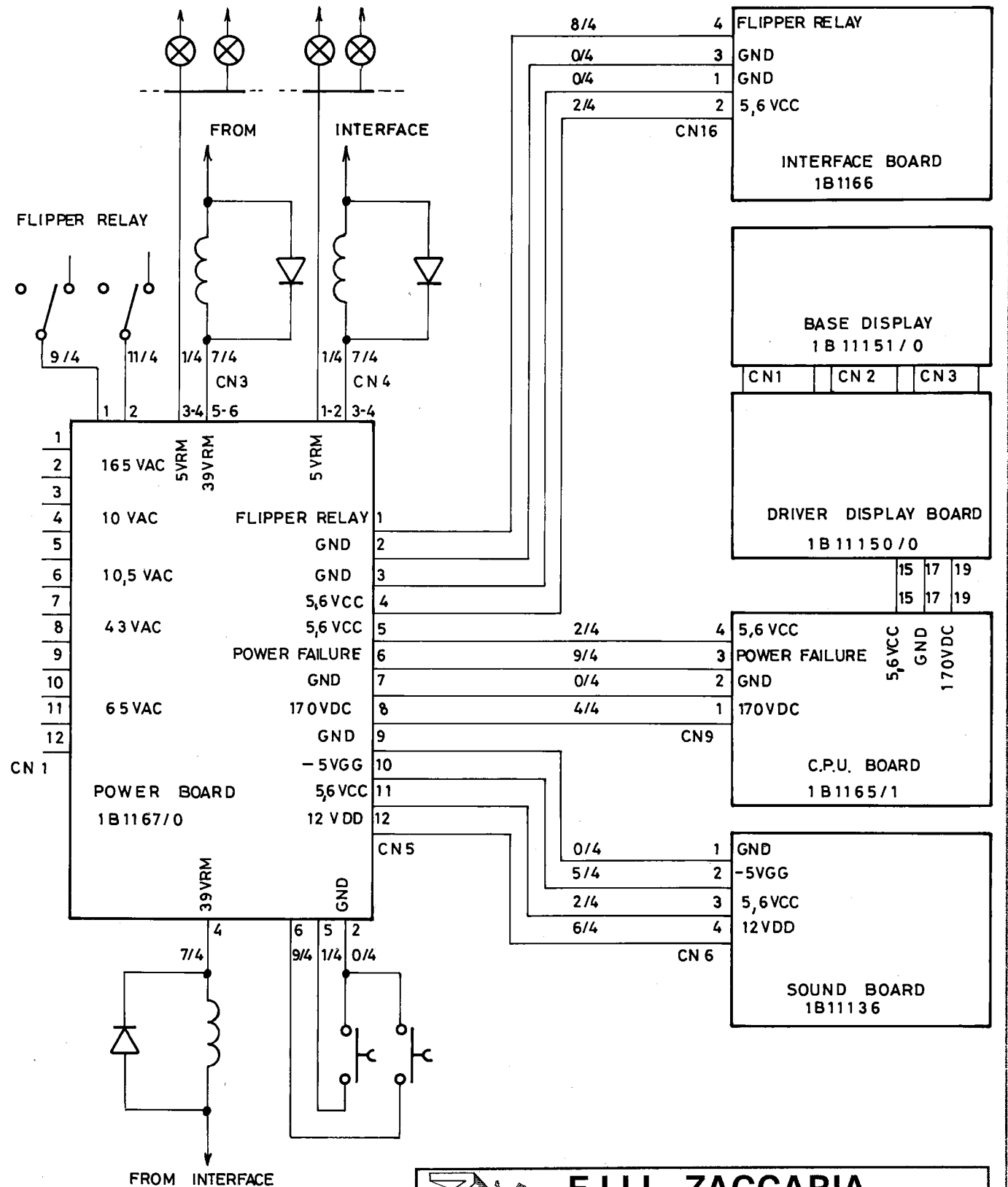


		F.LLI ZACCARIA s.n.c.	
Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY			
Codice		Descrizione	
		BLOCK DIAGRAM "ROBOT"	
Codice Gruppo	Dis.	Data	Rev.
	lorena	13. 6. 1983	lorena
Materiale		Trattamento	Scala
• note :			Foglio

ASSEMBLY DRAWING



1. 1st player display
2. 2nd player display
3. Credit display
Display ball to play
Match
Game time bonus
Highest score display
4. 4th player display
5. 3rd player display
6. Service button
7. C.P.U. board
8. Interface board
9. Sound board
10. Power board
11. Transformer
12. Knocker
13. Roll ball tilt
14. Bob tilt
15. Antichoc tilt
16. Credit button
17. Advance & Return test
18. General vol.
19. Maximum speech vol.
20. Maximum sound vol.
21. Dip SWS
22. Sound self-test button

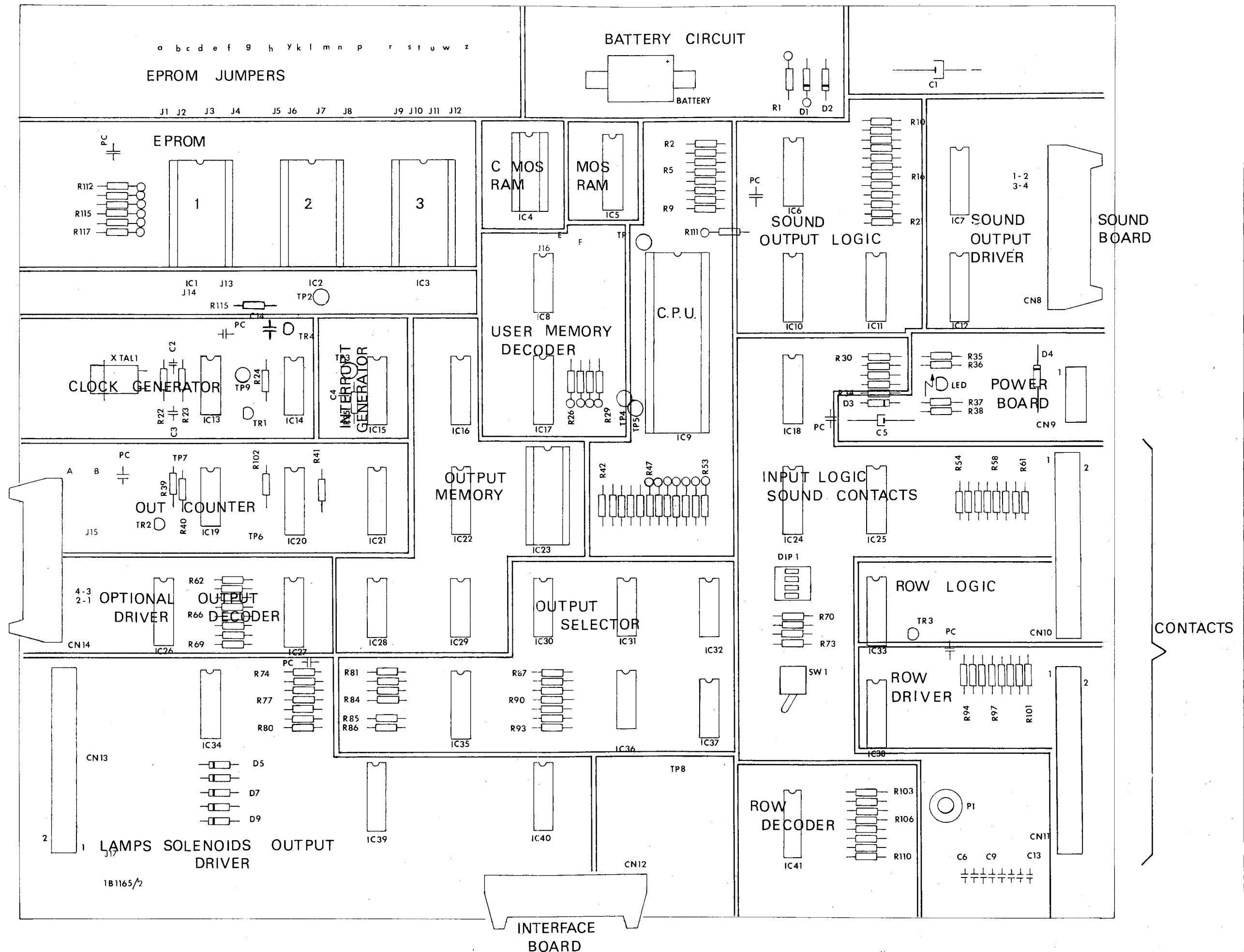


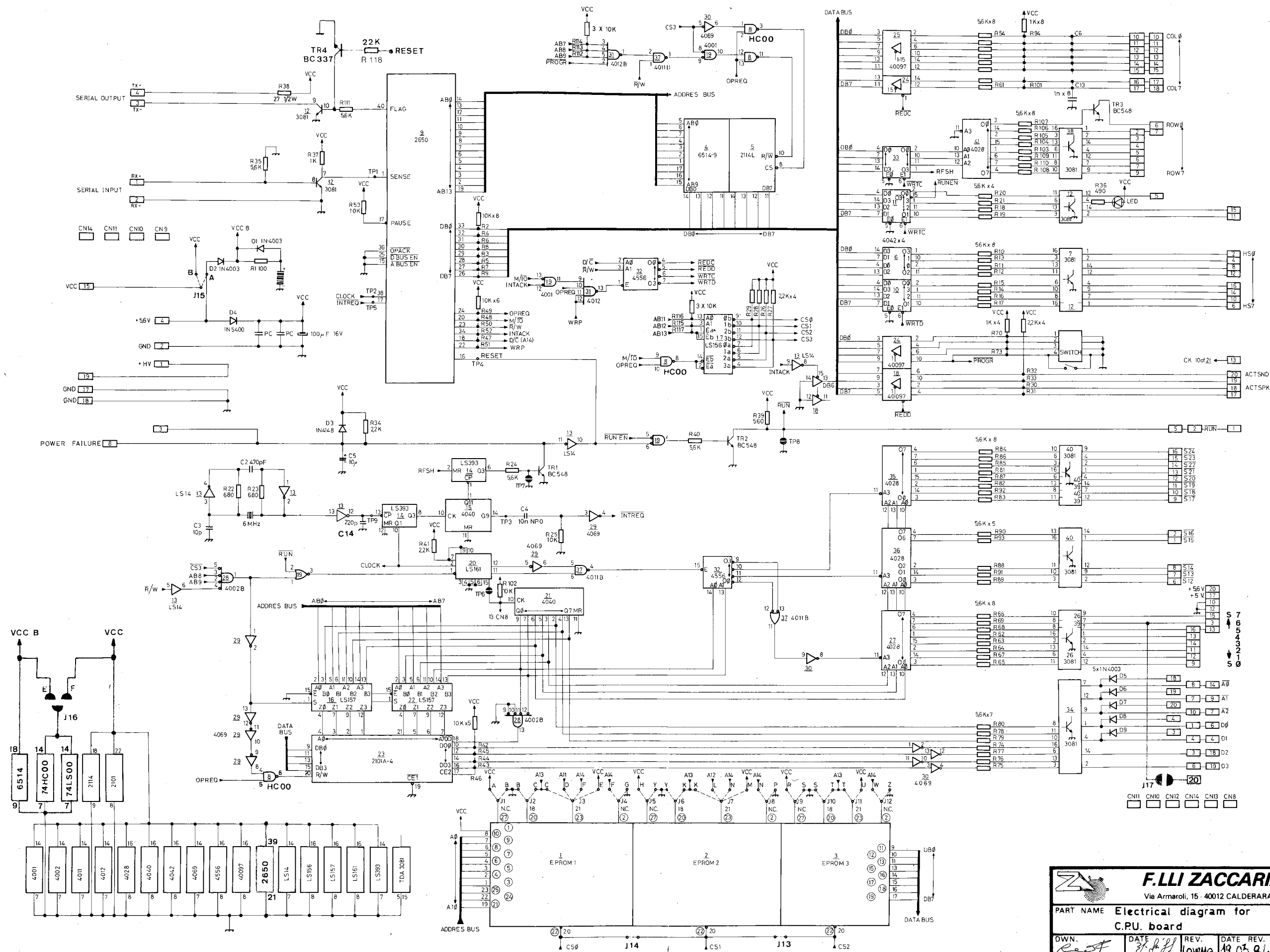
 F.LLI ZACCARIA s.n.c. Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY				
Codice	Descrizione ROBOT ELECTRICAL DIAGRAM POWER WIRING			
Codice Gruppo	Dis.	Data	Rev.	Data Rev.
	lorena	06.05.84		
Materiale	Trattamento			Scala
note :				Foglio

C.P.U. board

P.C.1 B 1165/2

DISPLAY BOARD





F.LI ZACCARIA s.n.c.
 Via Armadori, 15 - 40012 CALDERARA DI RENO (Bo) Italy

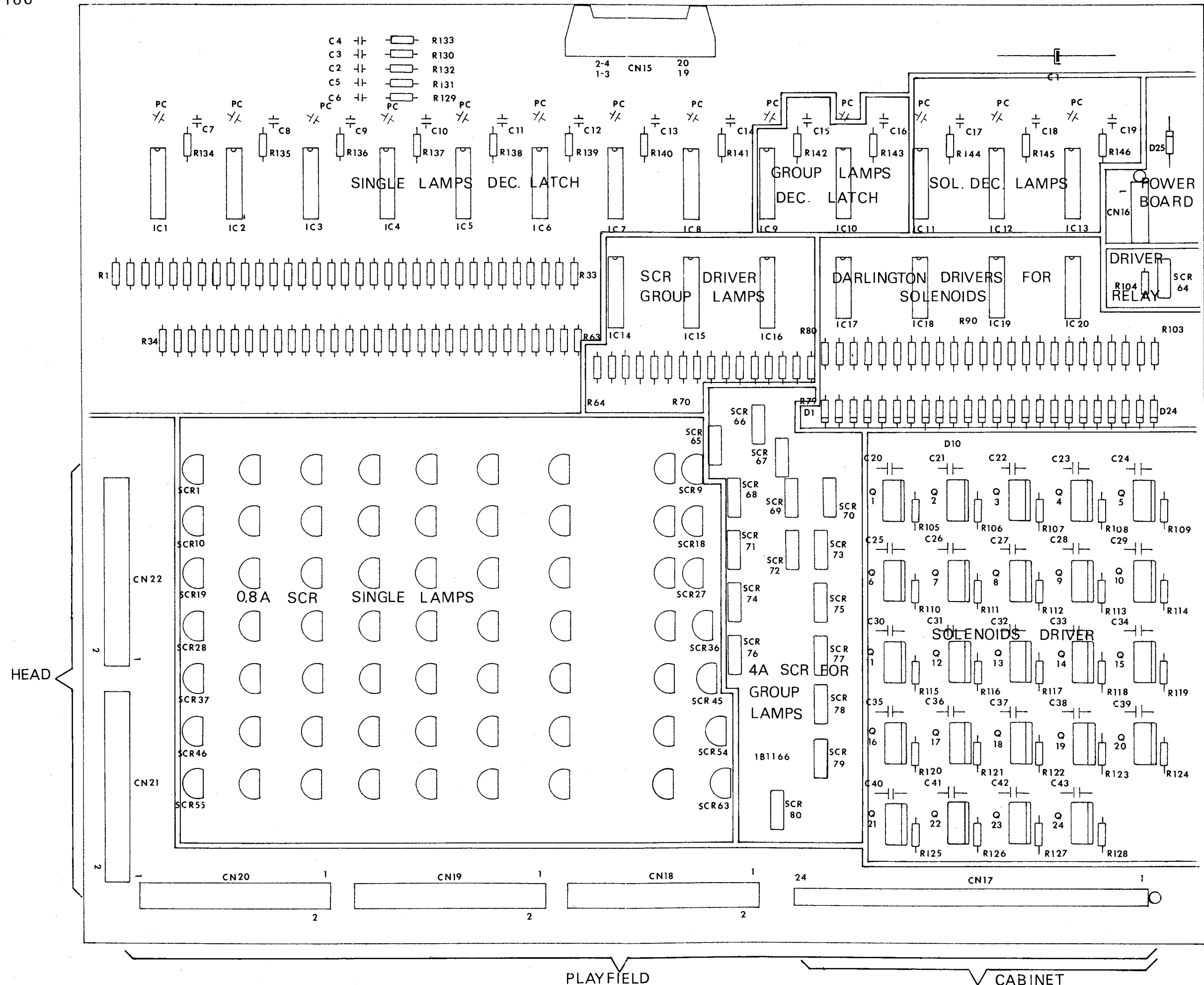
PART NAME		Electrical diagram for		PART NO.	
		C.P.U. board		1B 13 65/2	
DWN.	DATE	REV.	DATE REV.	SHEET	
R. 01	17.05.84	100000	17.05.84		

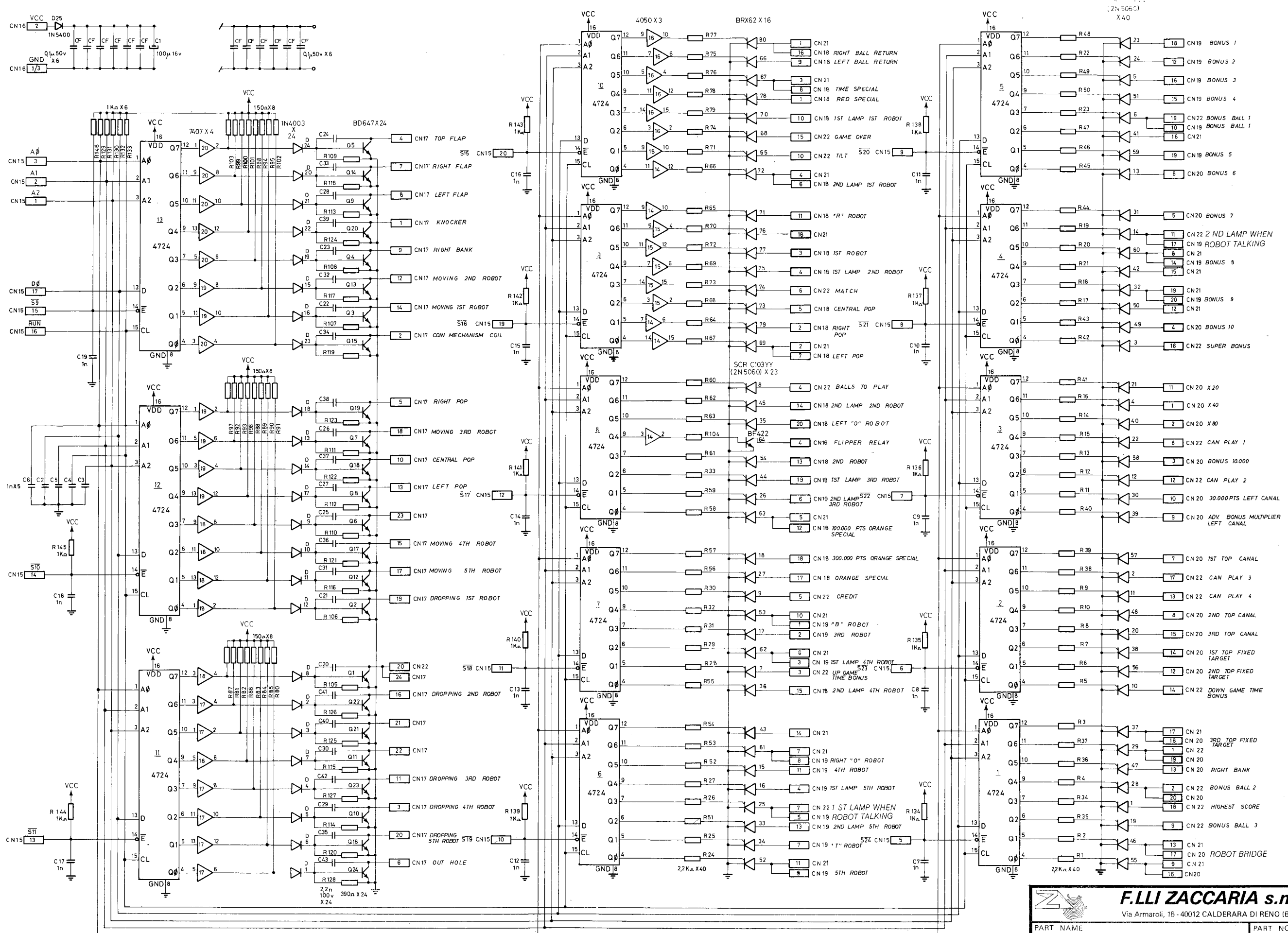
NOTES: UNLESS OTHERWISE SPECIFIED
 1) ALL RESISTORS VALUES IN
 2) ALL CAPACITORS VALUES IN

INTERFACE board

P.C. 1B1166

C.P.U. BOARD

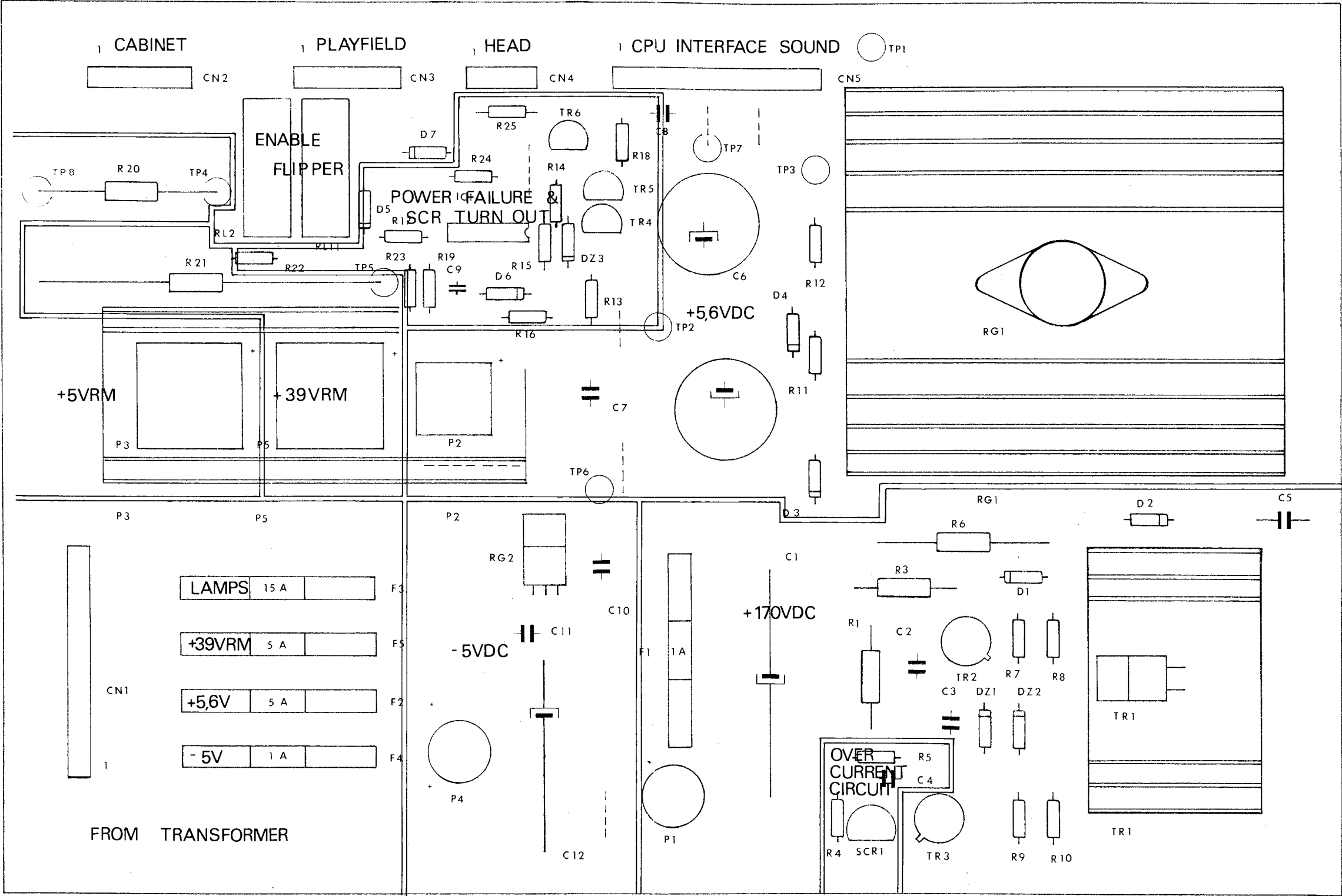


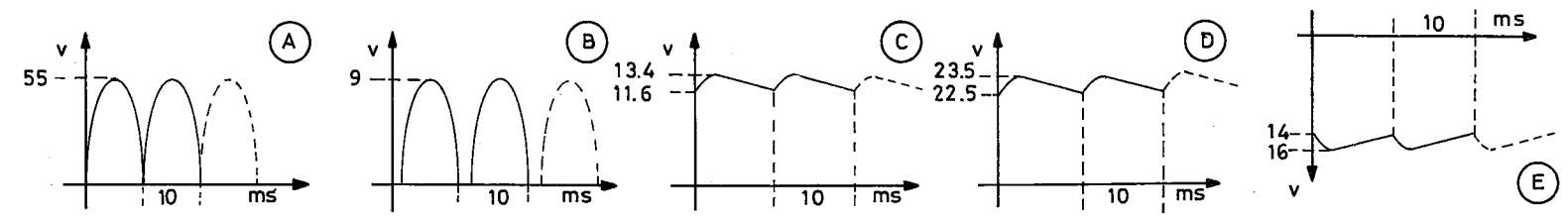
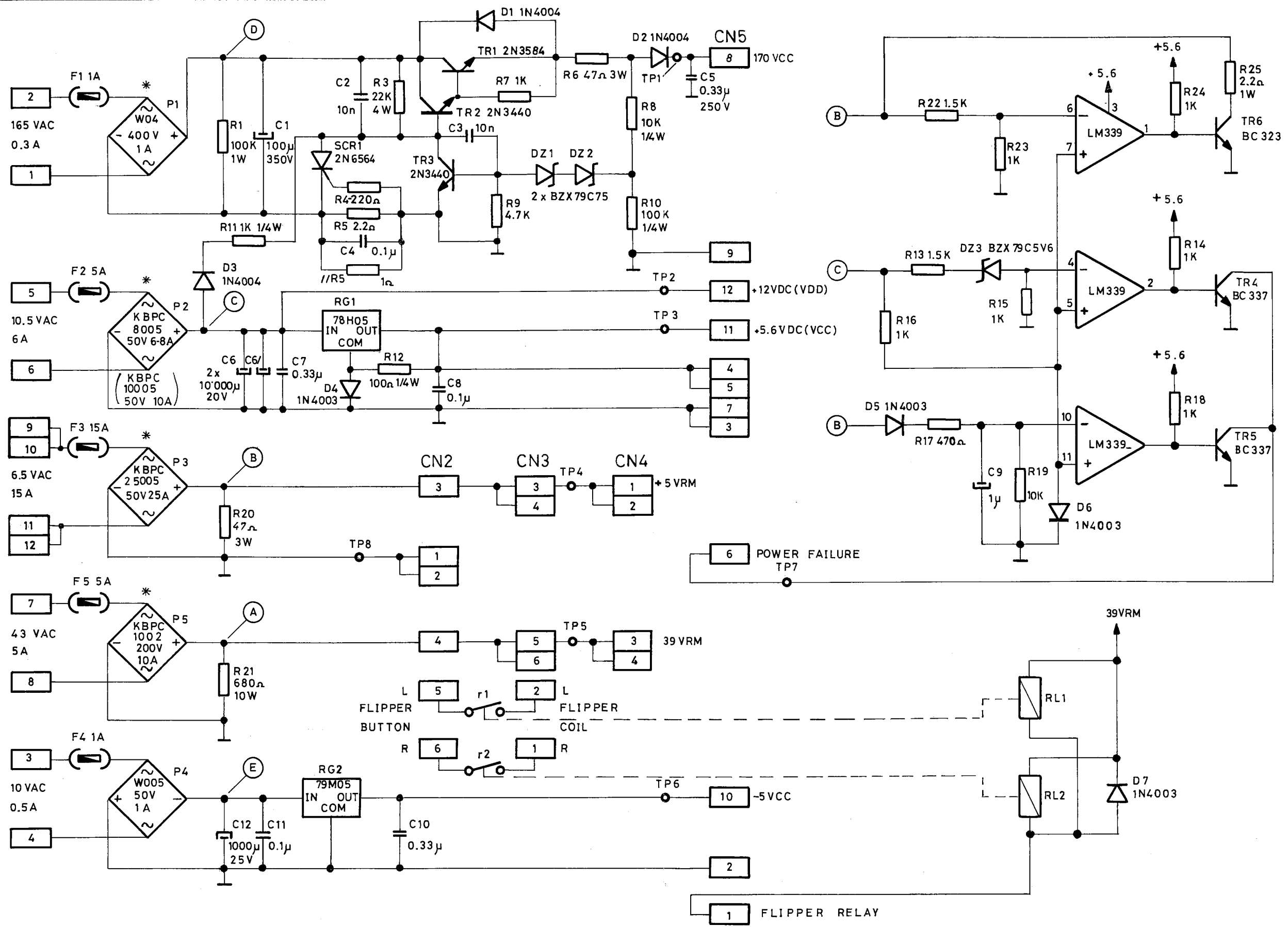


 F.LI ZACCARIA s.n.c. Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) Italy			
PART NAME		PART NO.	
INTERFACCIA ROBOT		1B1366	
DWN.	DATE	REV.	DATE REV.
11.09.84	11.09.84	1	11.09.84
SHEET		SHEET	
NOTES: UNLESS OTHERWISE SPECIFIED		NOTES: UNLESS OTHERWISE SPECIFIED	
11 ALL RESISTORS VALUES IN OHMS		11 ALL RESISTORS VALUES IN OHMS	
21 ALL CAPACITORS VALUES IN PICO FARADS		21 ALL CAPACITORS VALUES IN PICO FARADS	

POWER board

P.C. 1B1167/0





* WITH HEAT SINK

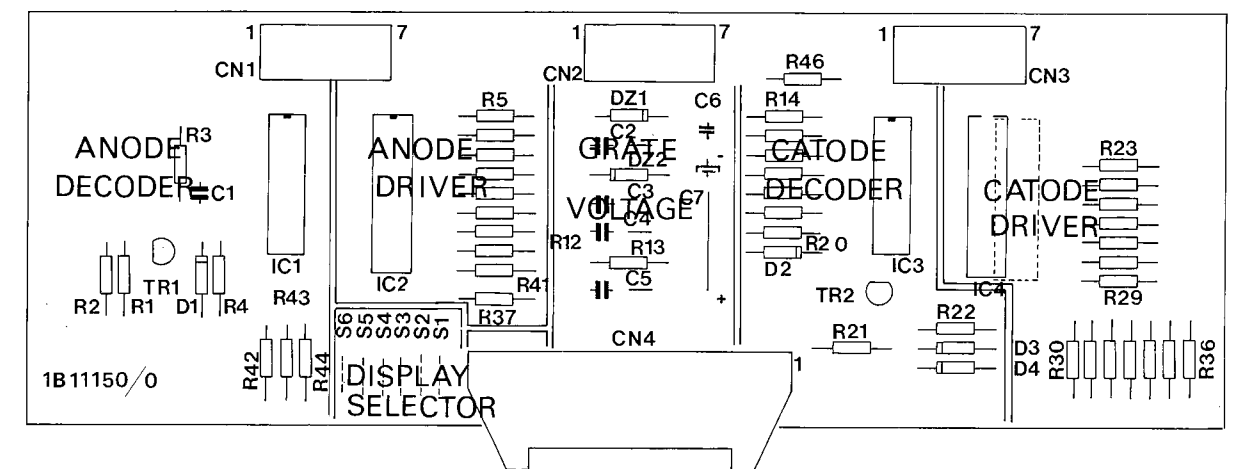
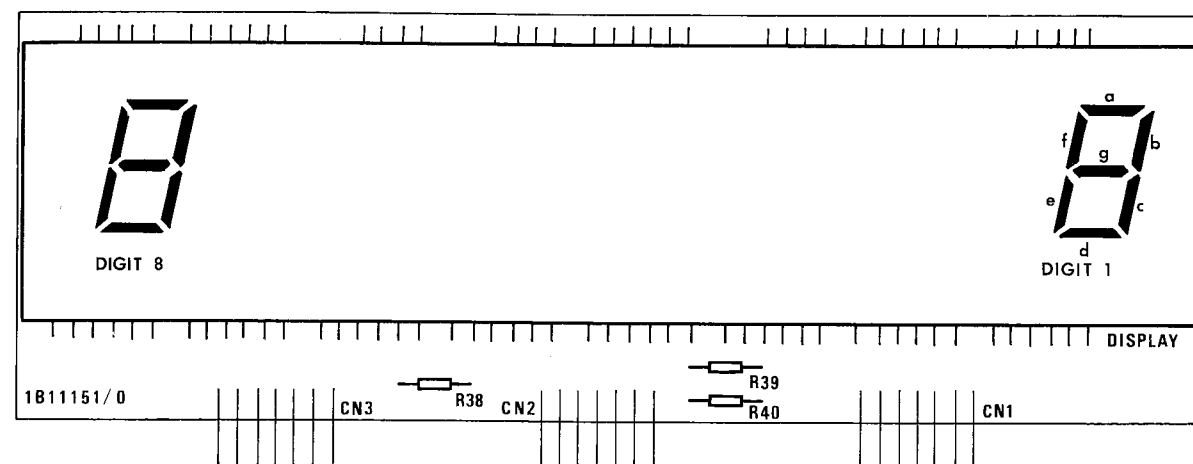
F.LLI ZACCARIA s.n.c.
Via Armadori, 15 - 40012 CALDERARA DI RENO (Bo) Italy

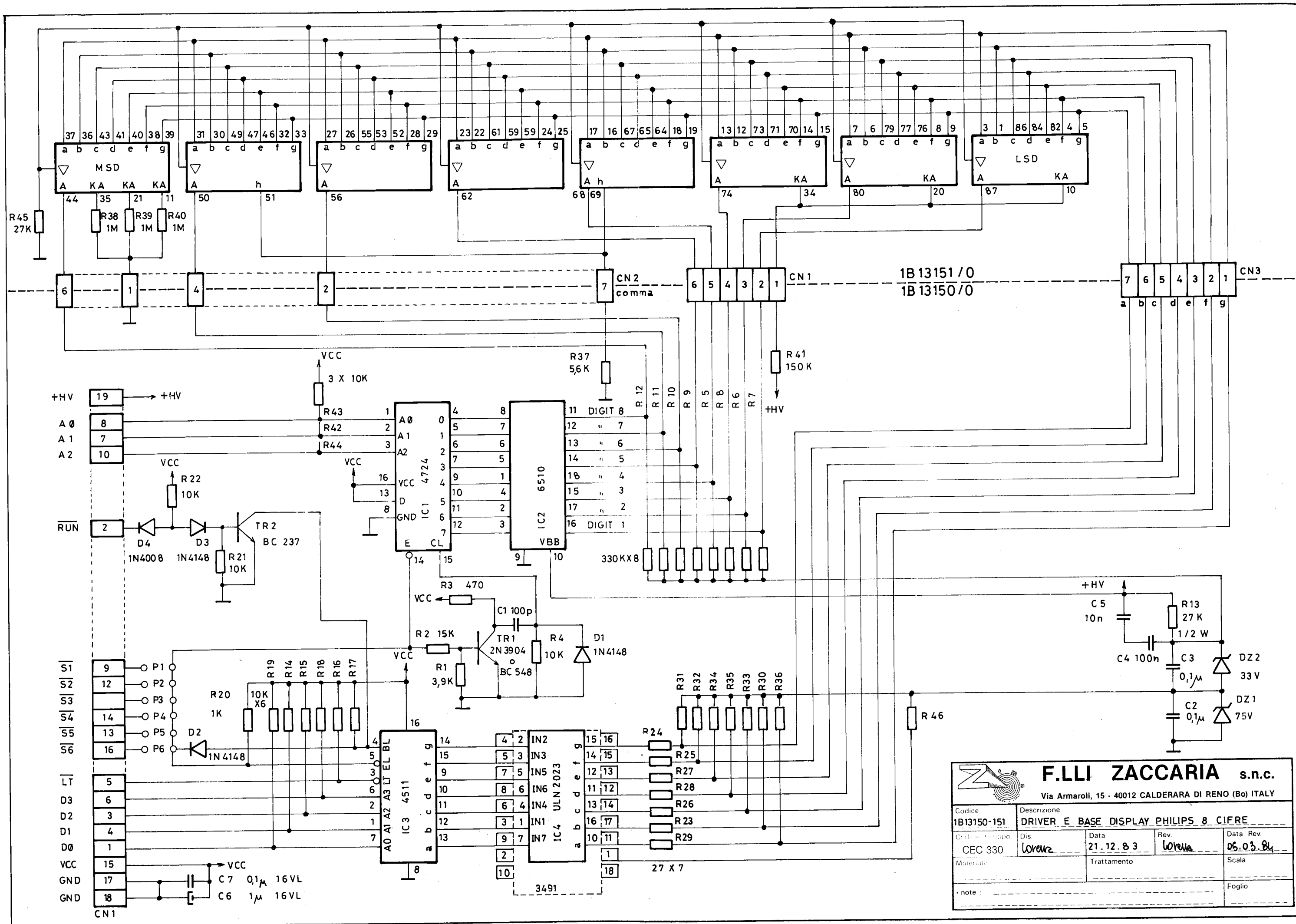
PART NO. 1B1367/0

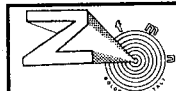
PART NAME Electrical diagram for POWER BOARD			
DWN	DATE 26/7/82	REV. 10/04/84	DATE REV. 5.04.84
NOTES: UNLESS OTHERWISE SPECIFIED		SHEET	
1) ALL RESISTORS VALUES IN		2) ALL CAPACITORS VALUES IN	

BASE & DRIVER DISPLAY board

PC. 1B11150/0 - 1B11151/0



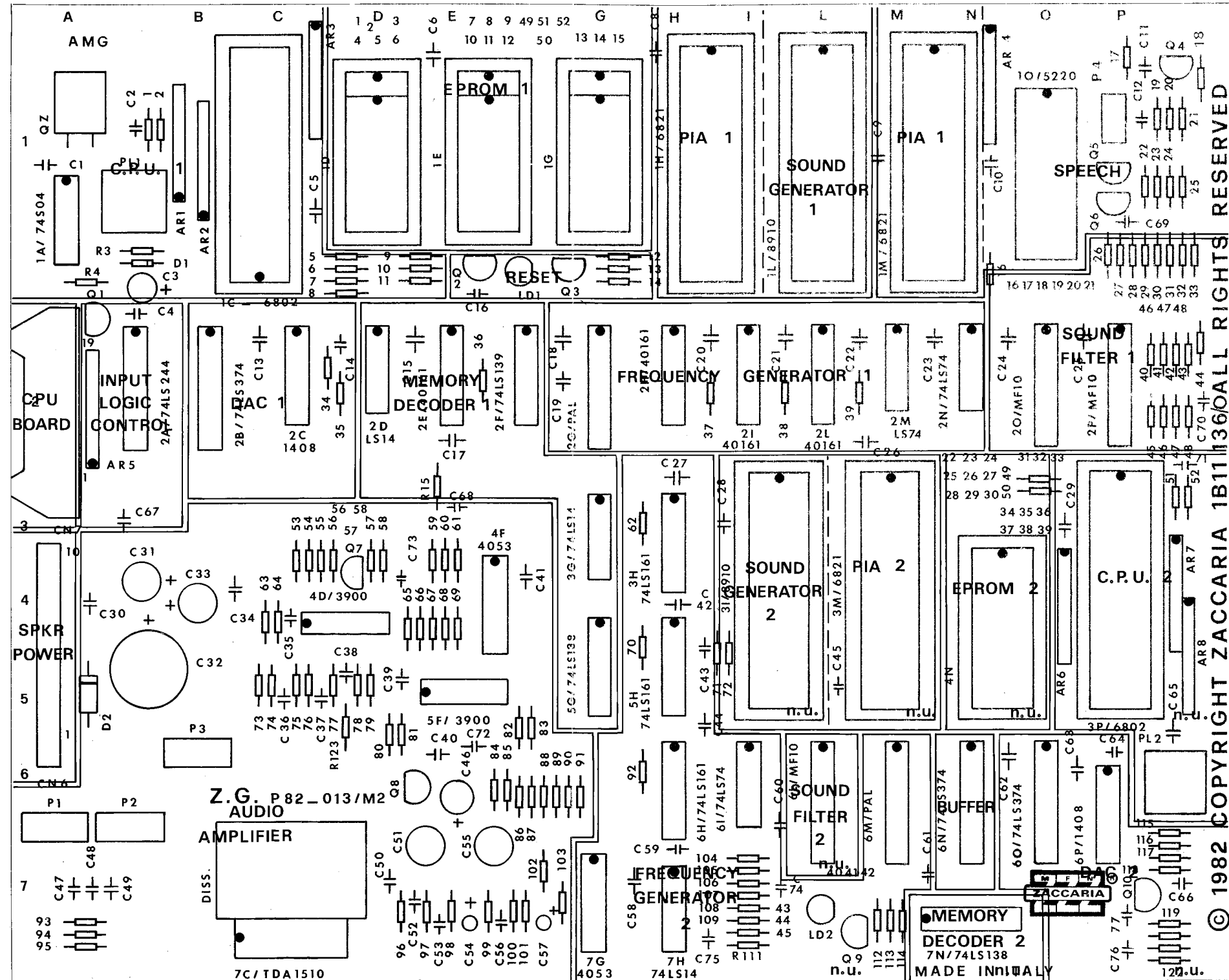



F.LLI ZACCARIA s.n.c.
 Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY

Codice 1B13150-151		Descrizione DRIVER E BASE DISPLAY PHILIPS 8 CIFRE		
Carta Gruppo CEC 330	Dis. LORENZ	Data 21.12.83	Rev. LORENZ	Data Rev. 05.03.84
Materiale		Trattamento		Scala
note:				Foglio

SOUND & SPEECH board

P.C. 1B1136\0



SERIGRAFIA COMPONENTI SCALA 1:1

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V3

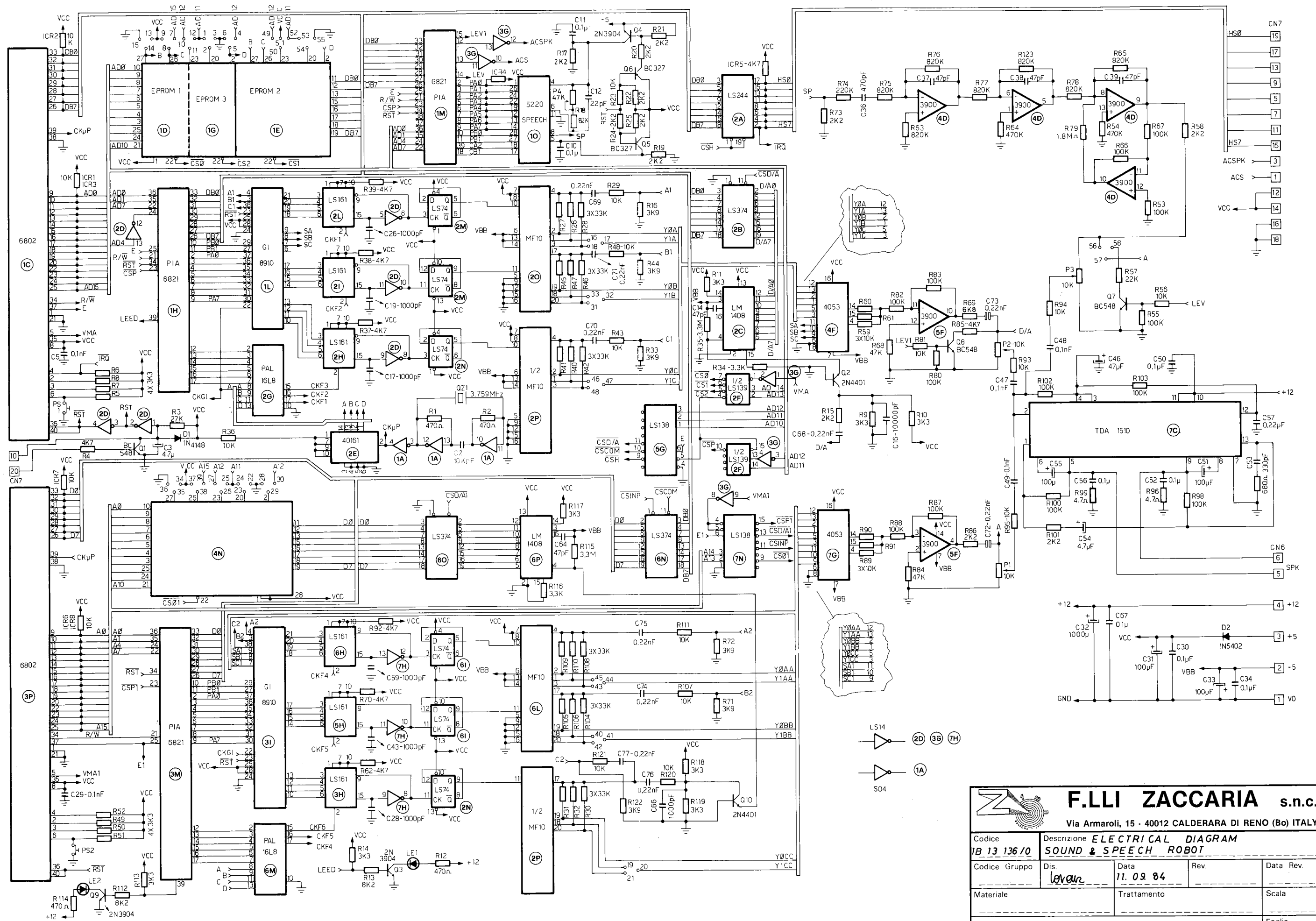
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V

I.C.

TALY

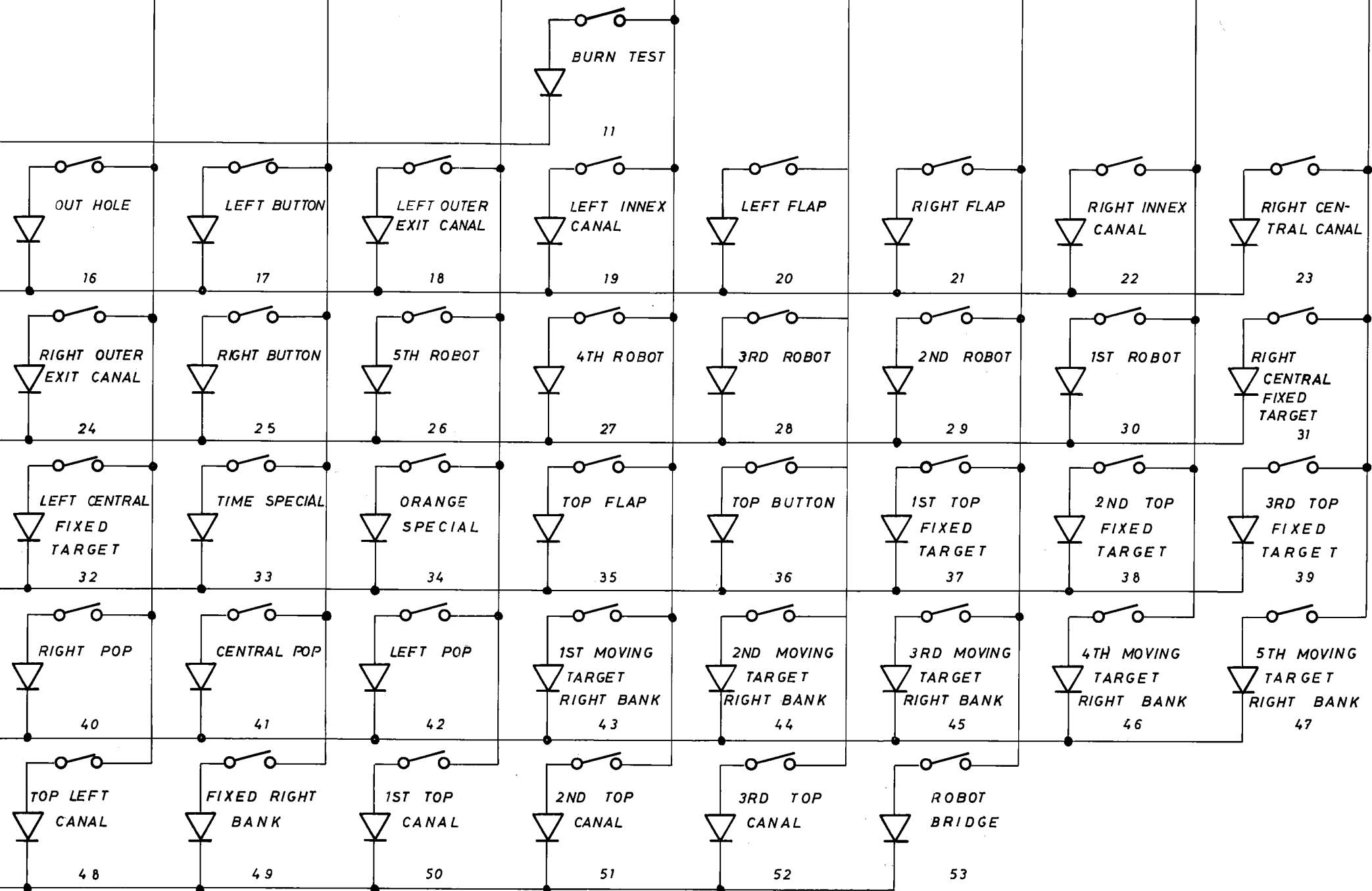
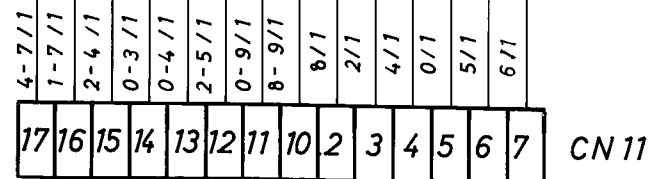
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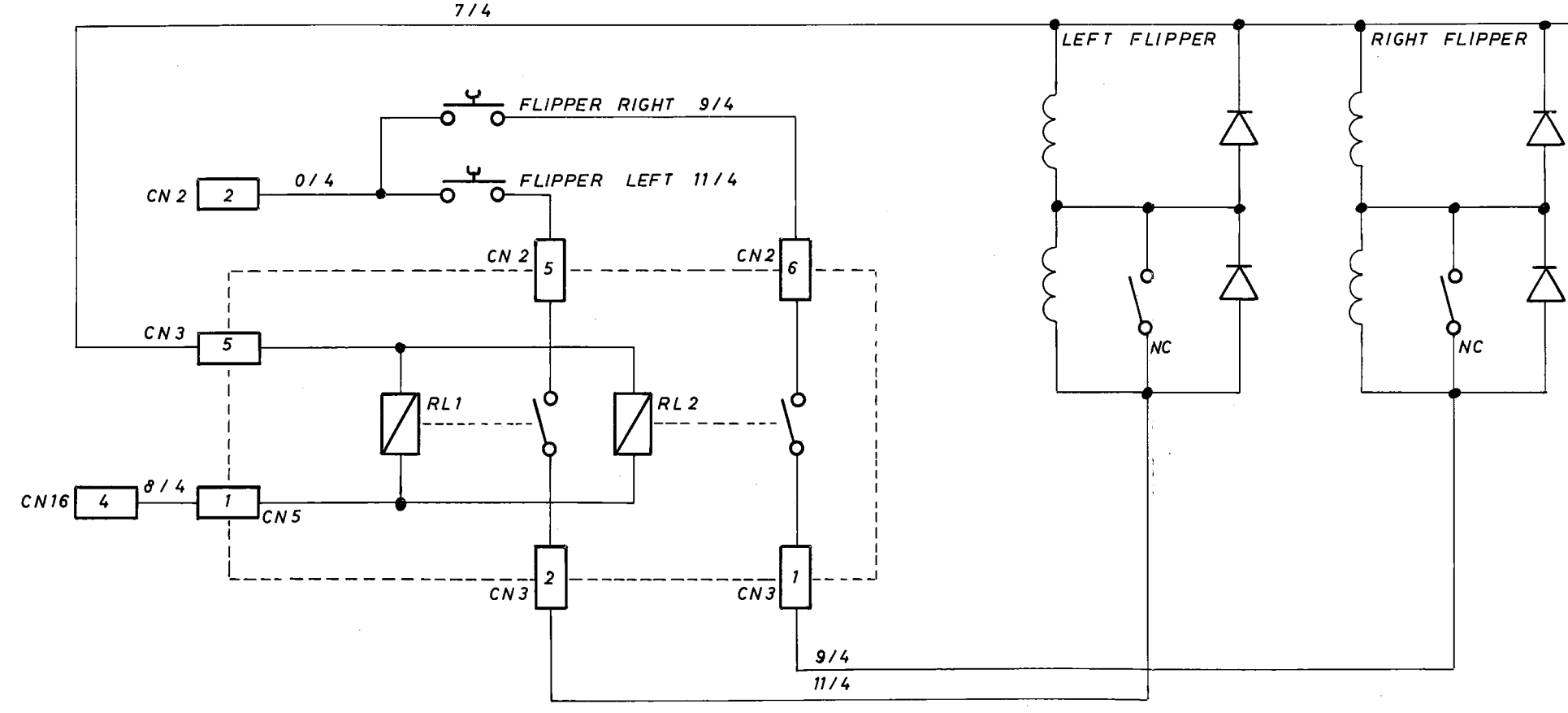
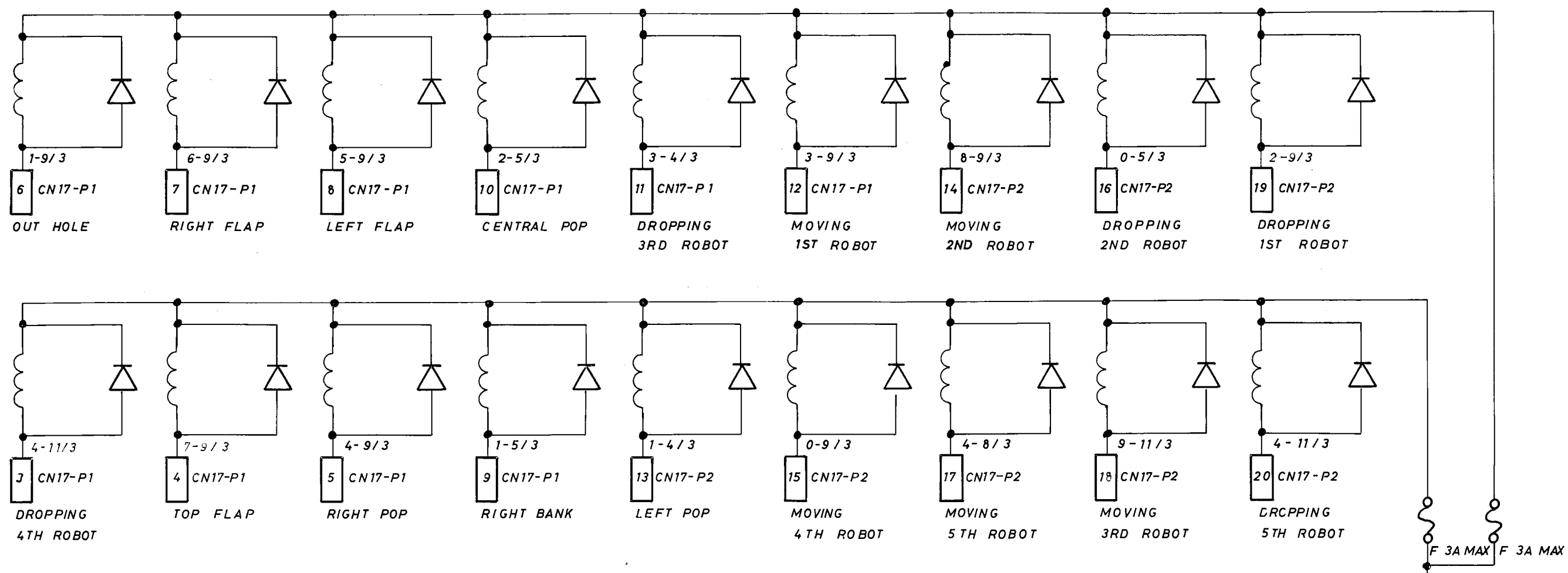

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 Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY

Codice	Descrizione ELECTRICAL DIAGRAM			
1B 13 136 10	SOUND & SPEECH ROBOT			
Codice Gruppo	Dis.	Data	Rev.	Data Rev.
	<i>lavoro</i>	11. 09 84		
Materiale	Trattamento		Scala	
note :				
Foglio				

I.C.
ITALY



F.LLI ZACCARIA s.n.c.	
Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY	
Codice	Descrizione WIRING DIAGRAM FOR PLAYFIELD CONTACTS "ROBOT"
Codice Gruppo	Dis. lorenz
Data	05.07.84
Rev	
Data Rev	
Materiali	Trattamento
Scala	
note	Foglio



 F.LLI ZACCARIA s.n.c. Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY	
Codice	Descrizione
	COIL WIRING "ROBOT"
Codice Gruppo	Dis.
	<i>10002</i>
Data	Rev.
10.07.1984	
Trattamento	Scala
Foglio	
note :	

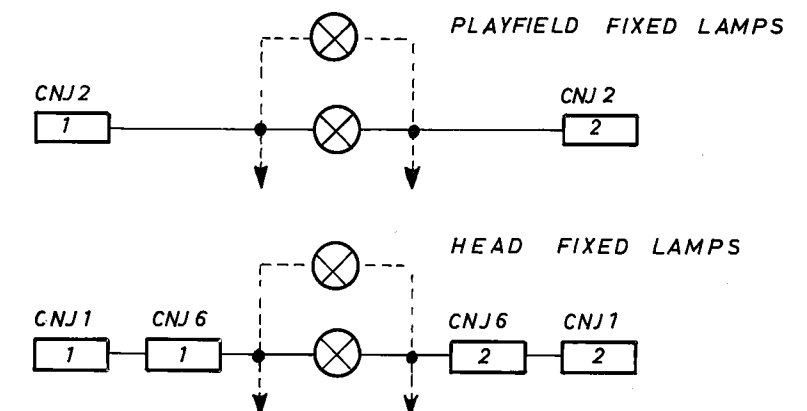
PLAYFIELD LAMPS

CN3	4	1/4	
CN18	1	4-9/1	RED SPECIAL
	2	12/1	RIGHT POP
	3	4-6/1	1ST ROBOT
	4	5-8/1	1ST LAMP 2ND ROBOT
	5	9-11/1	CENTRAL POP
	6	1-11/1	2ND LAMP 1ST ROBOT
	7	3-8/1	LEFT POP
	8	5-7/1	TIME SPECIAL
	9	3-4/1	LEFT BALL RETURN
	10	5-9/1	1ST LAMP 1ST ROBOT
	11	2-9/1	"R" ROBOT
	12	3-5/1	100.000 PTS ORANGE SPECIAL
	13	9/1	2ND ROBOT
	14	1/1	2ND LAMP 2ND ROBOT
	15	2-6/1	2ND LAMP 4TH ROBOT
	16	3-7/1	RIGHT BALL RETURN
	17	6-8/1	ORANGE SPECIAL
	18	0-2/1	300.000 PTS ORANGE SPECIAL
	19	3-6/1	1ST LAMP 3RD ROBOT
CN18	20	6-9/1	LEFT "O" ROBOT
CN19	1	11/1	"B" ROBOT
	2	3-9/1	3RD ROBOT
	3	1-5/1	1ST LAMP 4TH ROBOT
	4	2-7/1	1ST LAMP 5TH ROBOT
	5		
	6	1/1	2ND LAMP 3RD ROBOT
	7	1-3/1	"T" ROBOT
	8	7-11/1	RIGHT "O" ROBOT
	9	4-8/1	5TH ROBOT
CN19	10	5-6/1	BONUS BALL 1

CN19	11	1-4/1	4TH ROBOT
	12	7/1	BONUS 2
	13	6-7/1	2ND LAMP 5TH ROBOT
	14	3-9/1	BONUS 8
	15	0-6/1	BONUS 4
	16	6-11/1	BONUS 3
	17		
	18	4-11/1	BONUS 1
	19	0-11/1	BONUS 5
CN19	20	4-5/1	BONUS 9
CN20	1	4-9/1	X 40
	2	12/1	X 80
	3	1-6/1	10.000 BONUS
	4	5-8/1	BONUS 10
	5	9-11/1	BONUS 7
	6	1-11/1	BONUS 6
	7	3-8/1	1ST TOP CANAL
	8	5-7/1	2ND TOP CANAL
	9	3-4/1	ADV. BONUS MULTIPLIER LEFT CANAL
	10	5-9/1	30.000 PTS LEFT CANAL
	11	0-7/1	X 20
	12	1-9/1	2ND TOP FIXED TARGET
	13	0-5/1	RIGHT BANK
	14	4-6/1	1ST TOP FIXED TARGET
	15	2-6/1	3RD TOP CANAL
	16		
	17	6-8/1	ROBOT BRIDGE
	18	0-2/1	3RD TOP FIXED TARGET
	19		
CN20	20		

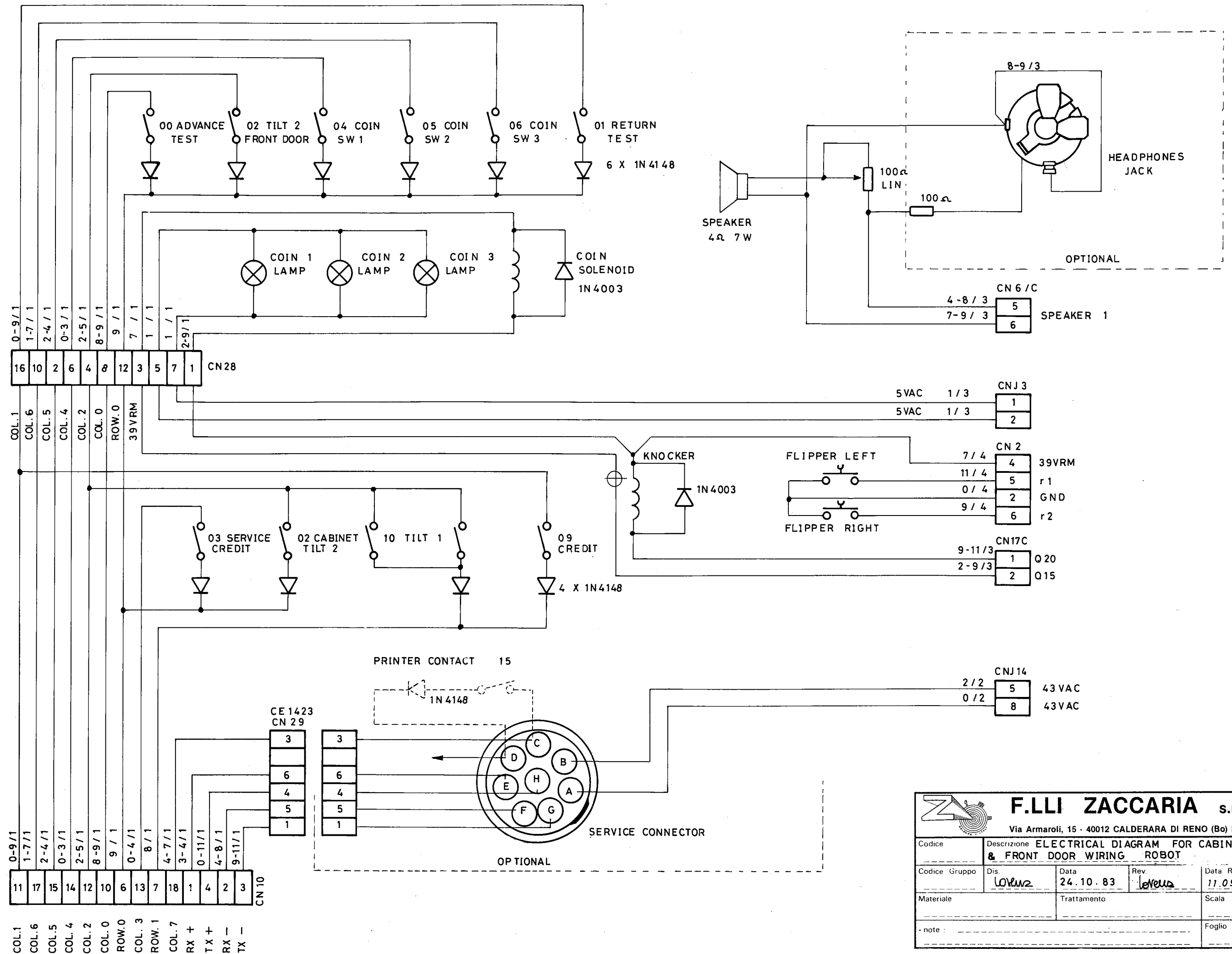
HEAD LAMPS

CN4	2	1/4	
CN22	1		
	2	6-9/1	BONUS BALL 2
	3	1-7/1	UP GAME TIME BONUS
	4	0-3/1	BALLS TO PLAY
	5	2-4/1	CREDIT
	6	0-4/1	MATCH
	7	7-9/1	1ST LAMP WHEN ROBOT TALKING
	8	5/1	CAN PLAY 1
	9	7-11/1	BONUS BALL 3
	10	0-9/1	TILT
	11	2-8/1	2ND LAMP WHEN ROBOT TALKING
	12	4/1	CAN PLAY 2
	13	0/1	CAN PLAY 4
	14	4-7/1	DOWN GAME TIME BONUS
	15	8-9/1	GAME OVER
	16	2-5/1	SUPER BONUS
	17	2/1	CAN PLAY 3
	18	6/1	HIGHEST SCORE
	19	5-6/1	BONUS BALL 1
CN22	20		

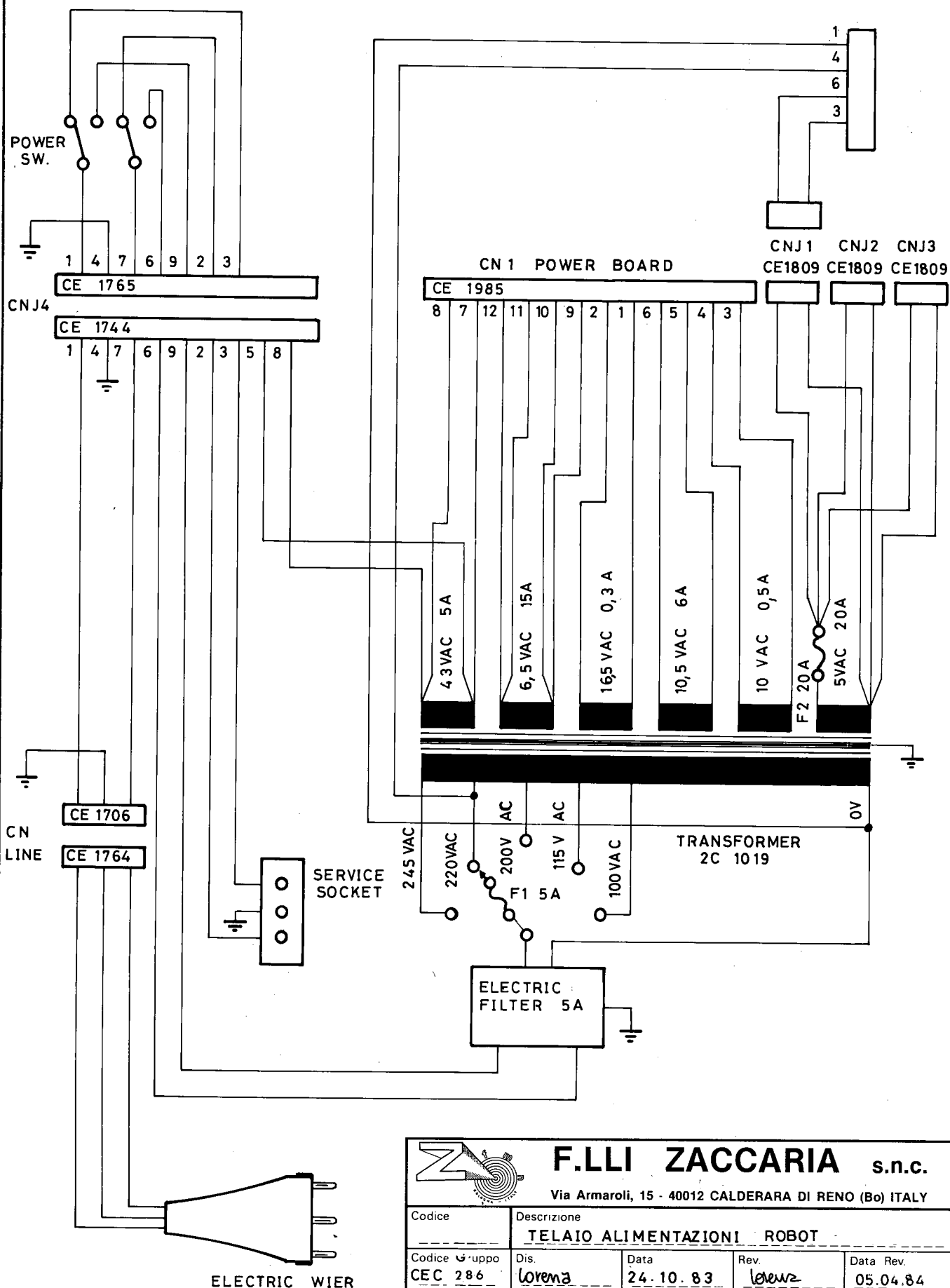


F.LLI ZACCARIA s.n.c.				
Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY				
Codice	Descrizione ELECTRICAL DIAGRAM FOR PLAYFIELD & HEAD LAMPS "ROBOT"			
Codice Gruppo	Dis	Data	Rev	Data Rev
	lorena	05.07.84		
Materiale	Trattamento			Scala
Note				Foglio

I.C.
ALY



					F.LLI ZACCARIA s.n.c.				
Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY									
Codice		Descrizione ELECTRICAL DIAGRAM FOR CABINET & FRONT DOOR WIRING ROBOT							
Codice Gruppo		Dis.	Data		Rev.		Data Rev.		
		LORENZ	24.10.83		LORENZ		11.09.84		
Materiale			Trattamento				Scala		
- note : _____							Foglio		



 F.LLI ZACCARIA s.n.c. Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY				
Codice	Descrizione			
	TELAIO ALIMENTAZIONI ROBOT			
Codice Gruppo	Dis.	Data	Rev.	Data Rev.
CEC 286	lorenz	24.10.83	lorenz	05.04.84
Materiale		Trattamento		Scala
note				Foglio

