



# MAGIC CASTLE



Electrical Diagram

**ZACCARIA®**

LIST OF ILLUSTRATIONS

JUMP LIST FOR MEMORIES SELECTION

BLOCK DIAGRAM

ASSEMBLY DRAWING

POWER WIRING

LAYOUT }  
DIAGRAM } CPU

LAYOUT }  
DIAGRAM } INTERFACE

LAYOUT }  
DIAGRAM } POWER

LAYOUT }  
DIAGRAM } DRIVER DISPLAY

LAYOUT }  
DIAGRAM } SOUND & SPEECH

PLAYFIELD CONTACTS WIRING

COIL WIRING

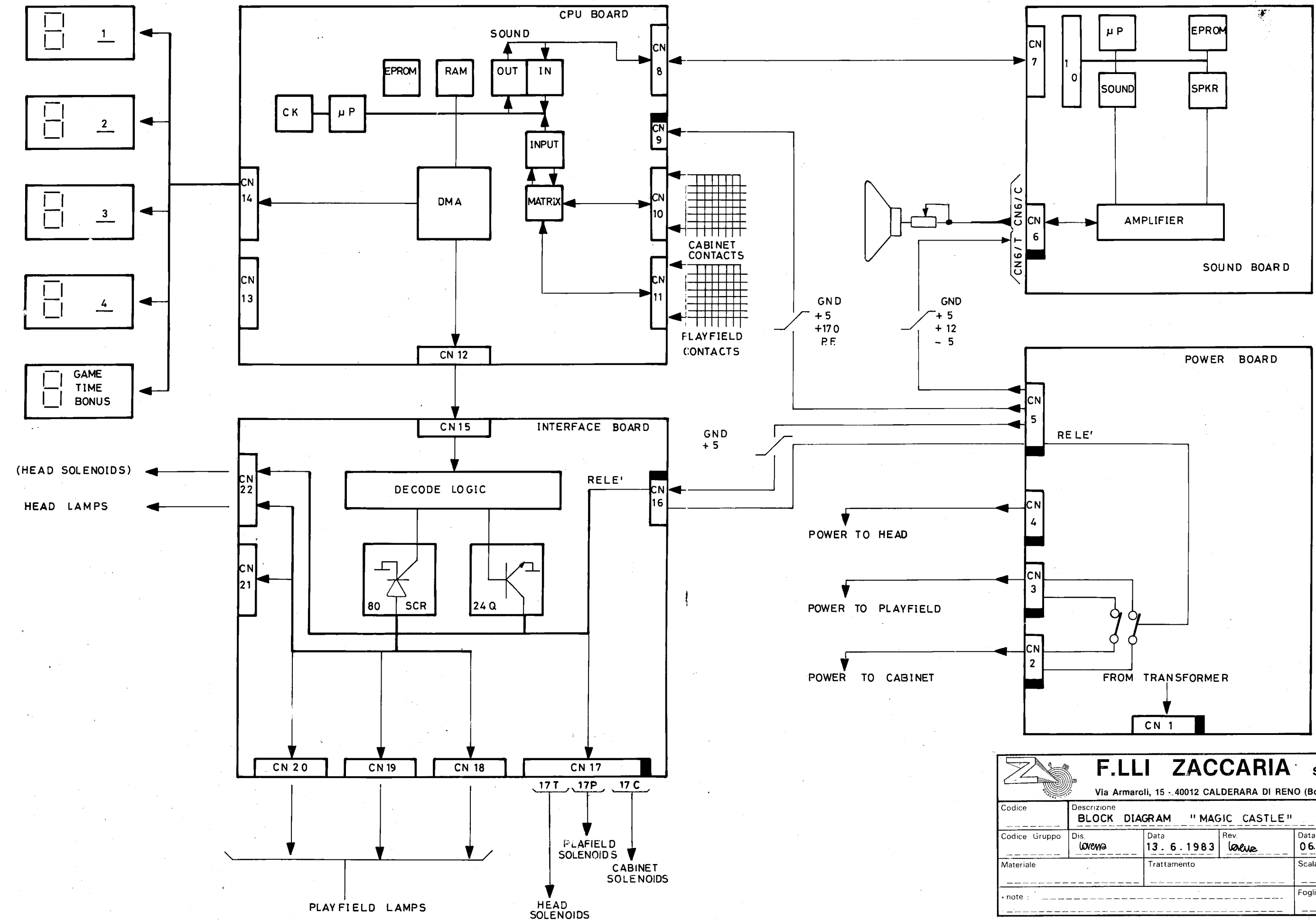
PLAYFIELD & HEAD LAMPS WIRING

CABINET & FRONT DOOR WIRING

POWER SUPPLY

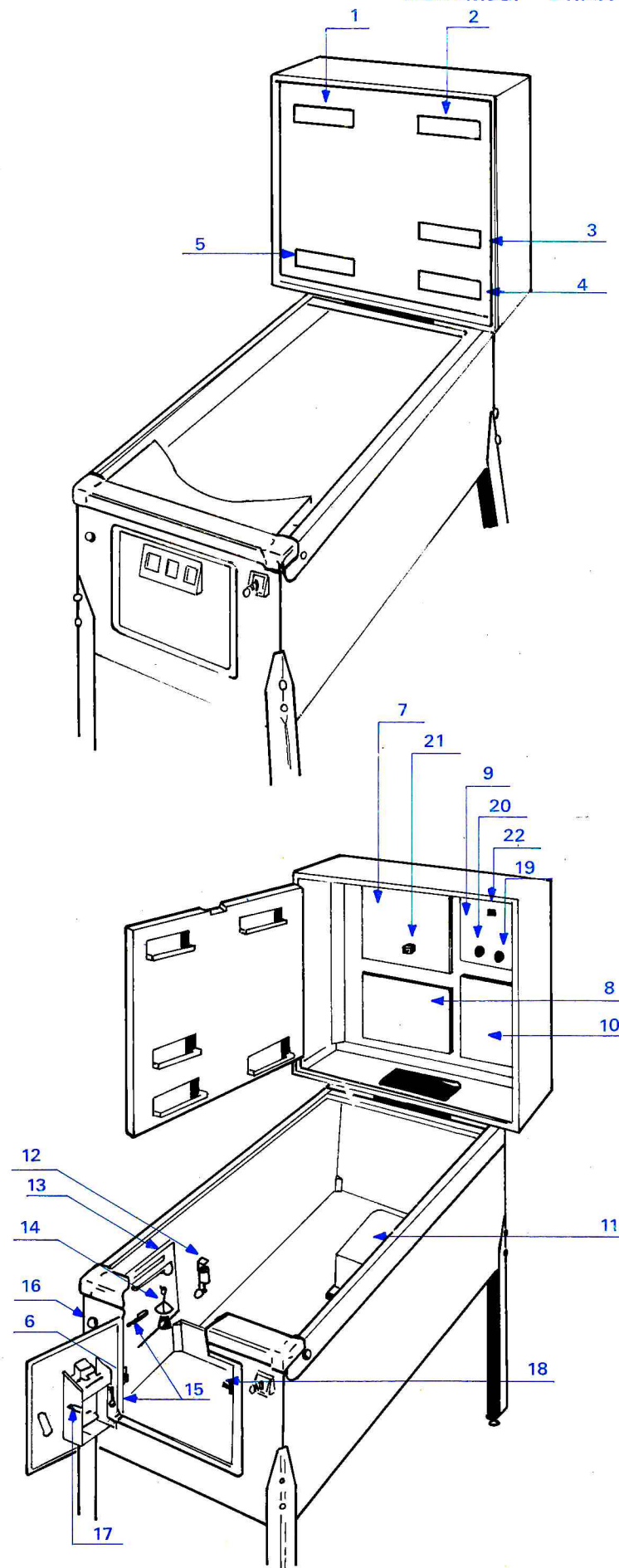
| COLOR CODE          | WIRES CUTAWAY<br>VIEW LIST |
|---------------------|----------------------------|
| Black ..... 0       | mm² 0,22 ...../1           |
| Brown ..... 1       | mm² 0,35 ...../2           |
| Red ..... 2         | mm² 0,5 ...../3            |
| Orange .....3       | mm² 0,9 ...../4            |
| Yellow ..... 4      | mm² 1,5 ...../5            |
| Green ..... 5       |                            |
| Blue ..... 6        |                            |
| Violet ..... 7      |                            |
| Grey ..... 8        |                            |
| White ..... 9       |                            |
| Pink ..... 11       |                            |
| Light Blue ..... 12 |                            |

# DRIVER DISPLAY BOARDS

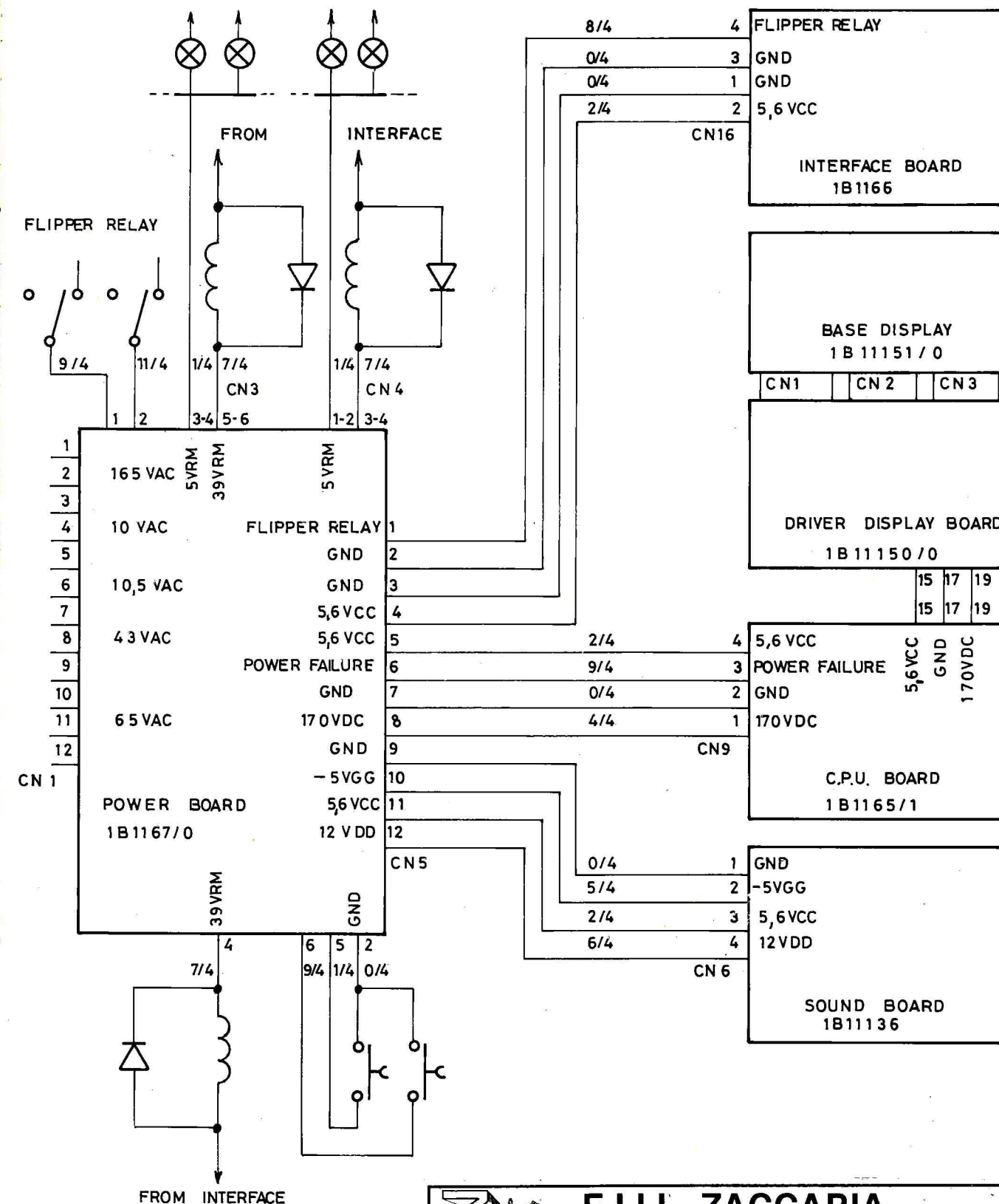


|                                                                                       |                                                    |                              |                       |                              |
|---------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------|-----------------------|------------------------------|
|  |                                                    | <b>F.LLI ZACCARIA s.n.c.</b> |                       |                              |
| Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY                                 |                                                    |                              |                       |                              |
| Codice                                                                                | Descrizione<br><b>BLOCK DIAGRAM "MAGIC CASTLE"</b> |                              |                       |                              |
| Codice Gruppo                                                                         | Dis.<br><i>lorena</i>                              | Data<br><b>13. 6. 1983</b>   | Rev.<br><i>lorena</i> | Data Rev.<br><b>06.03.84</b> |
| 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. Kocker
13. Roll ball tilt
14. Bob tilt
15. Antichoc tilt
16. Credit button
17. Advance & Return test
18. General vol.
19. Maximum speach vol.
20. Maximum sound vol.
21. Dip SWS
22. Sound self-test button

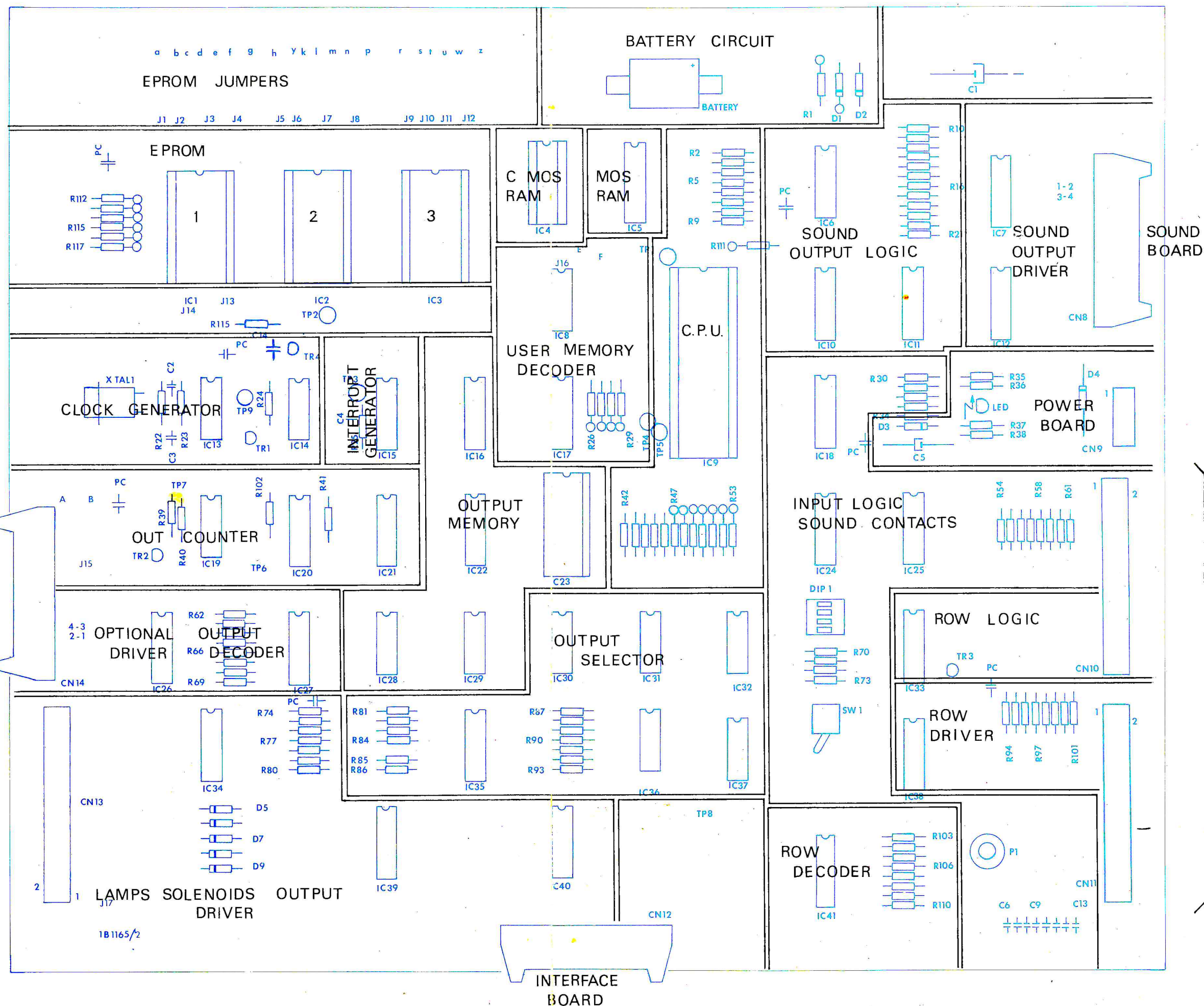


|                                                                                                                                                                             |                            |             |      |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|------|-----------|
|  <b>F.LLI ZACCARIA s.n.c.</b><br>Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY |                            |             |      |           |
| Codice                                                                                                                                                                      | Descrizione "MAGIC CASTLE" |             |      |           |
| ELECTRICAL DIAGRAM POWER WIRING                                                                                                                                             |                            |             |      |           |
| Codice Gruppo                                                                                                                                                               | Dis.                       | Data        | Rev. | Data Rev. |
|                                                                                                                                                                             | LOREMA                     | 06.05.84    |      |           |
| Materiale                                                                                                                                                                   |                            | Trattamento |      | Scala     |
| note                                                                                                                                                                        |                            |             |      | Foglio    |

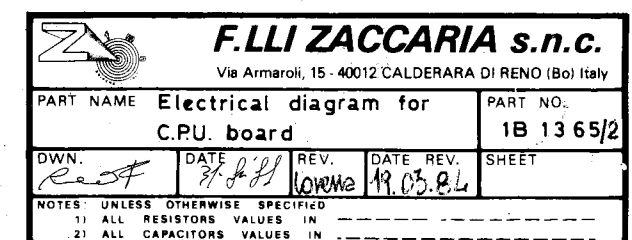
# C.P.U. board

P.C.1 B 1165/2

DISPLAY BOARD

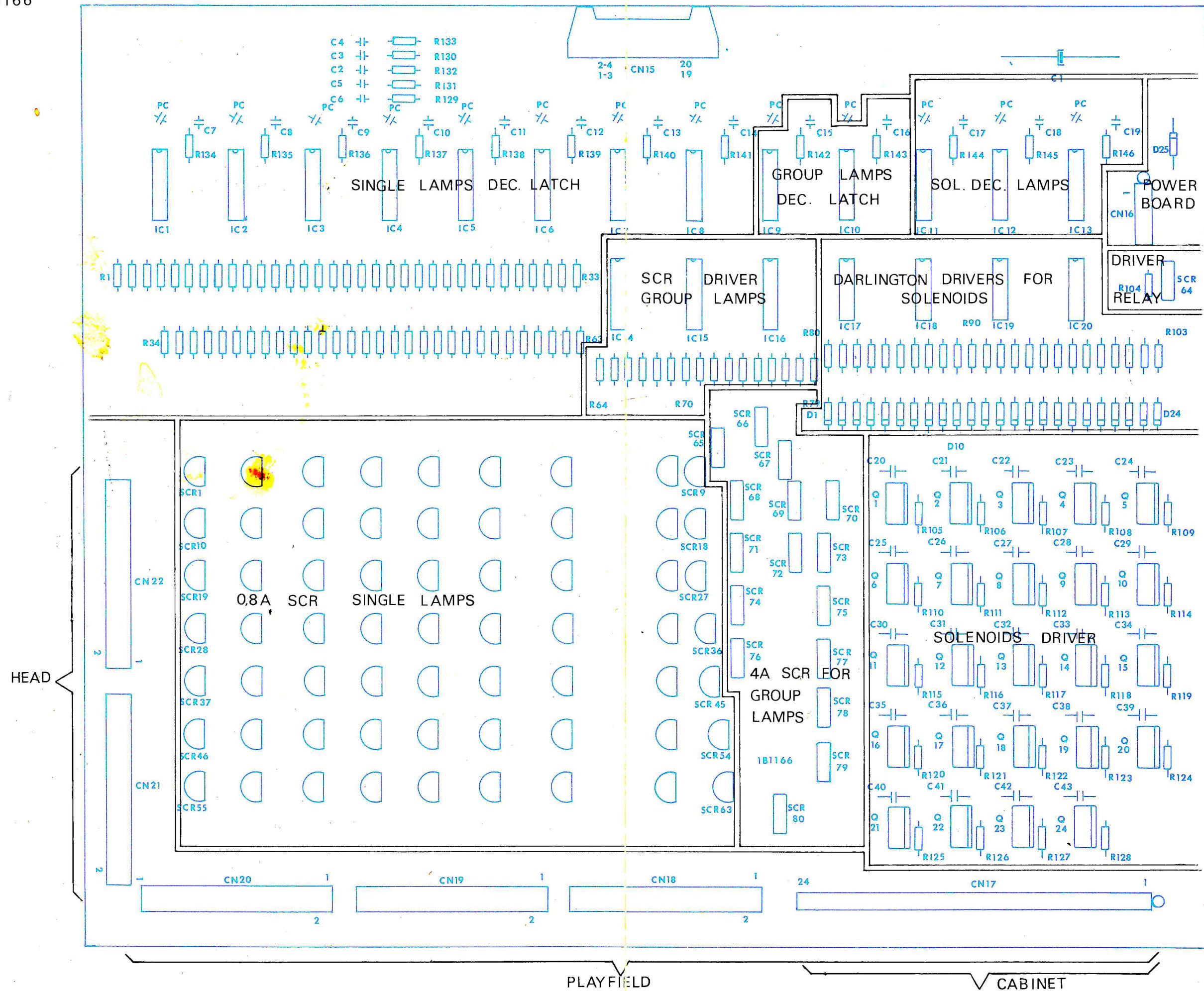


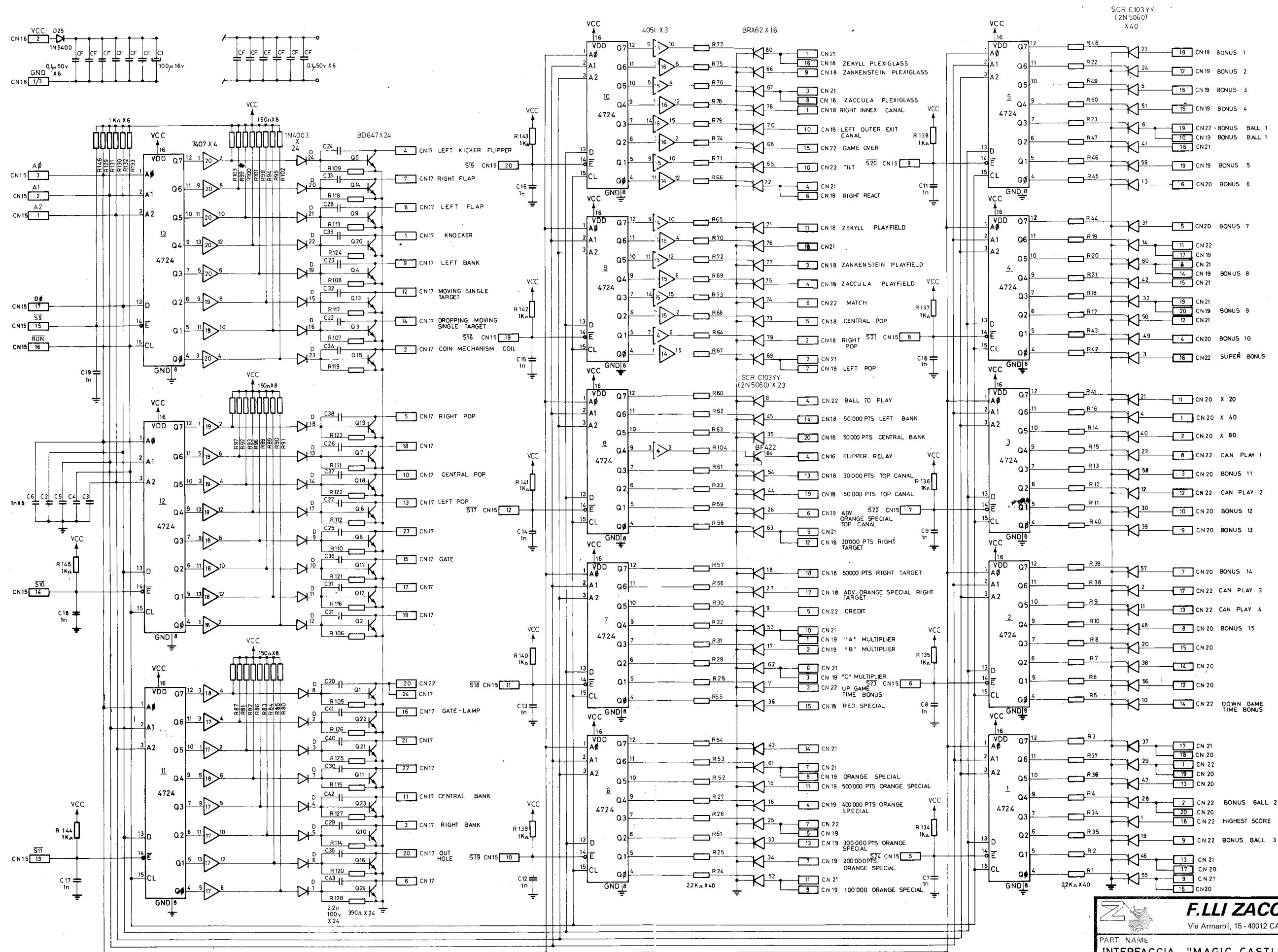
1B1165/2



P.C. 1B1166

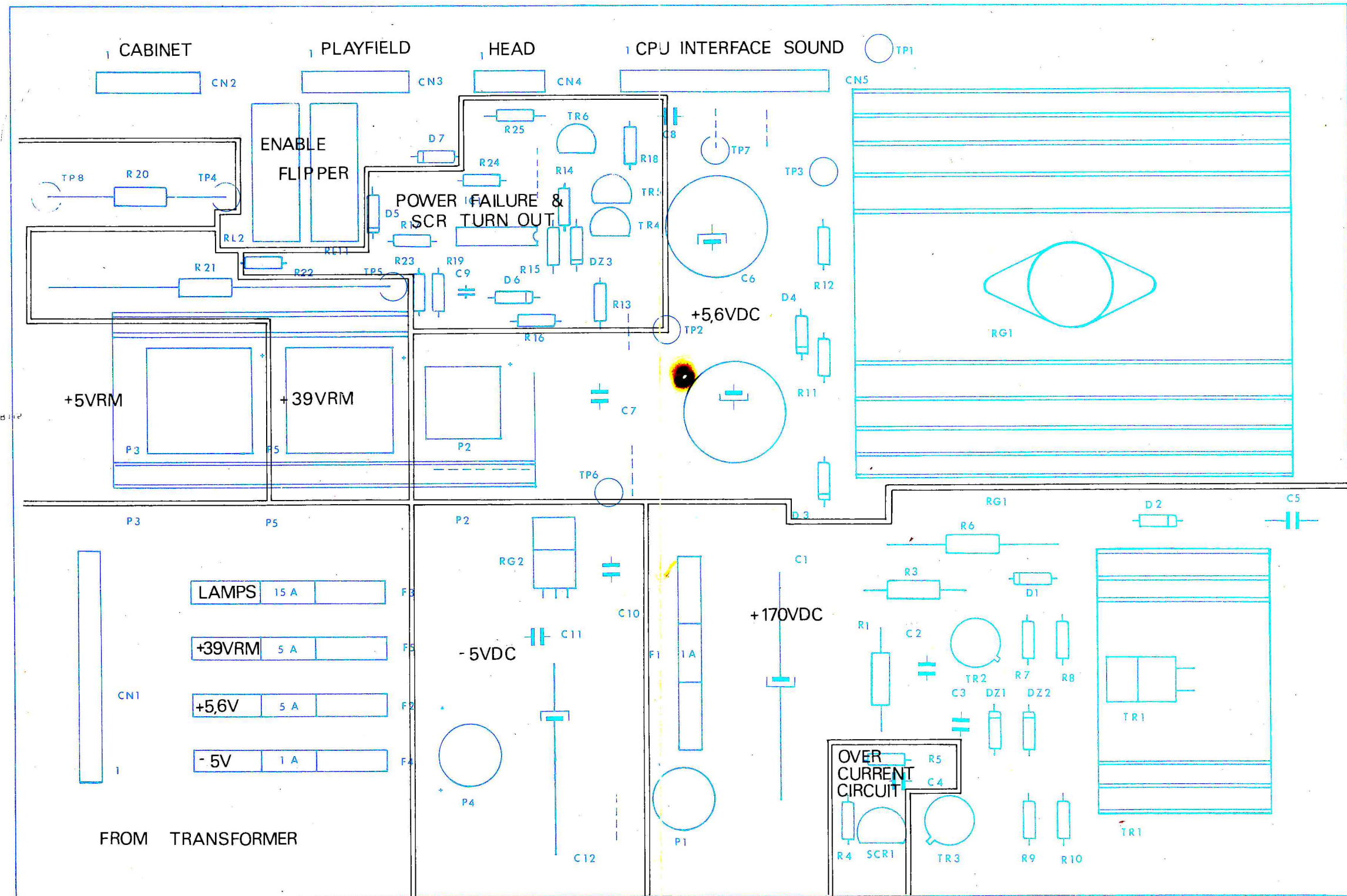
C.P.U. BOARD

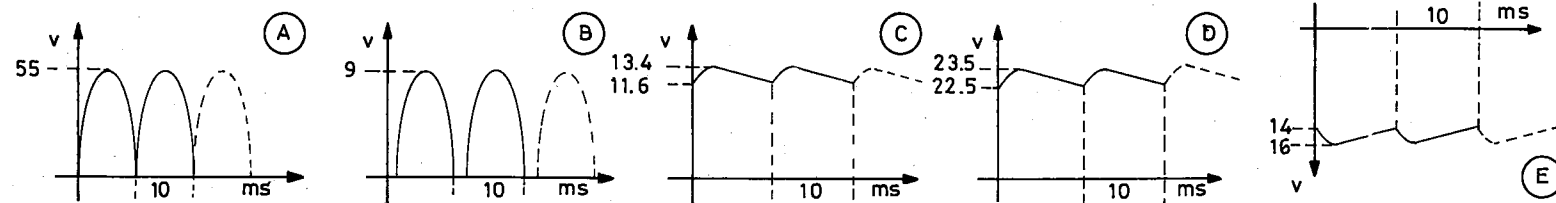
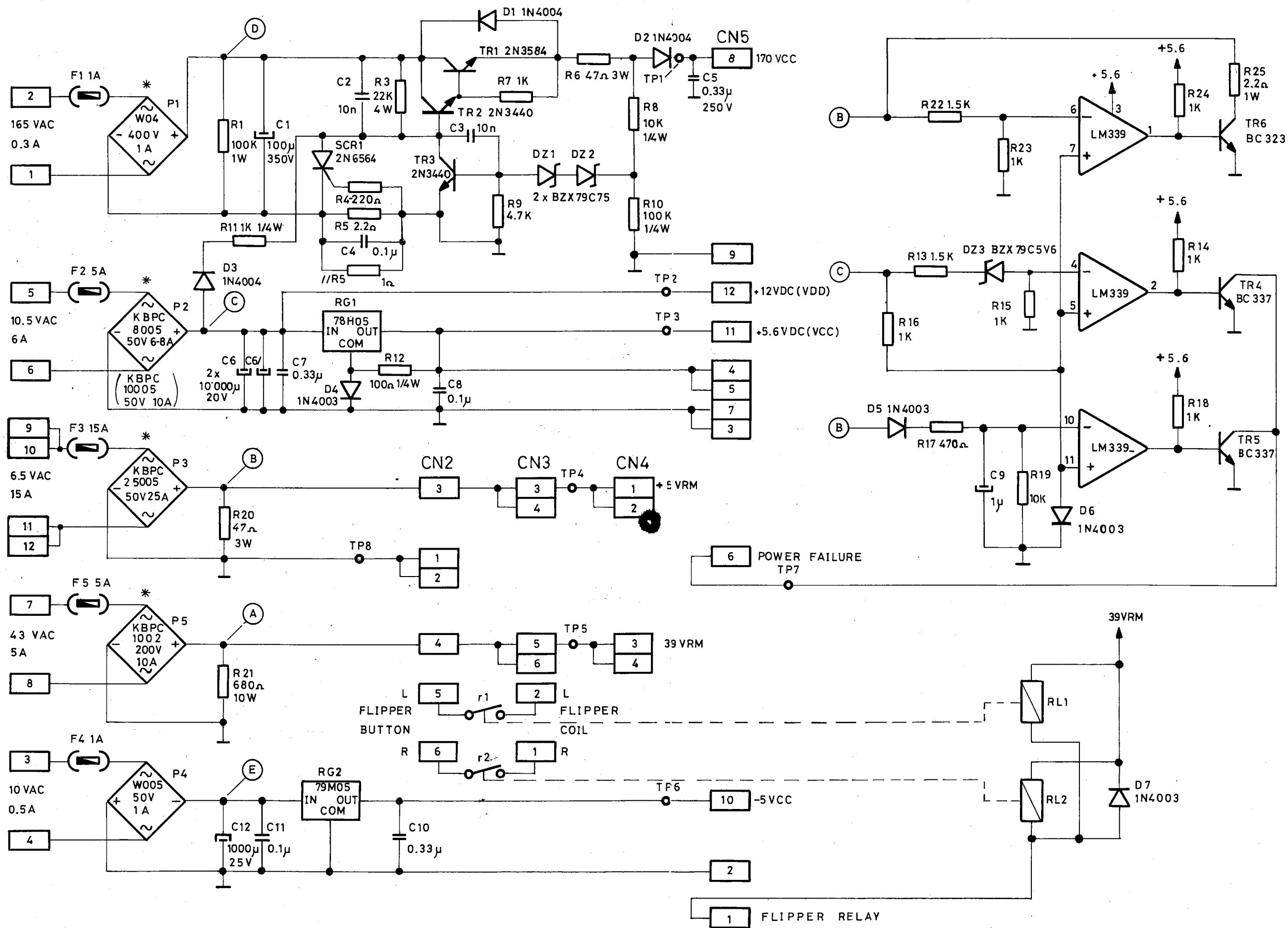




# POWER board

P.C. 1B1167/0



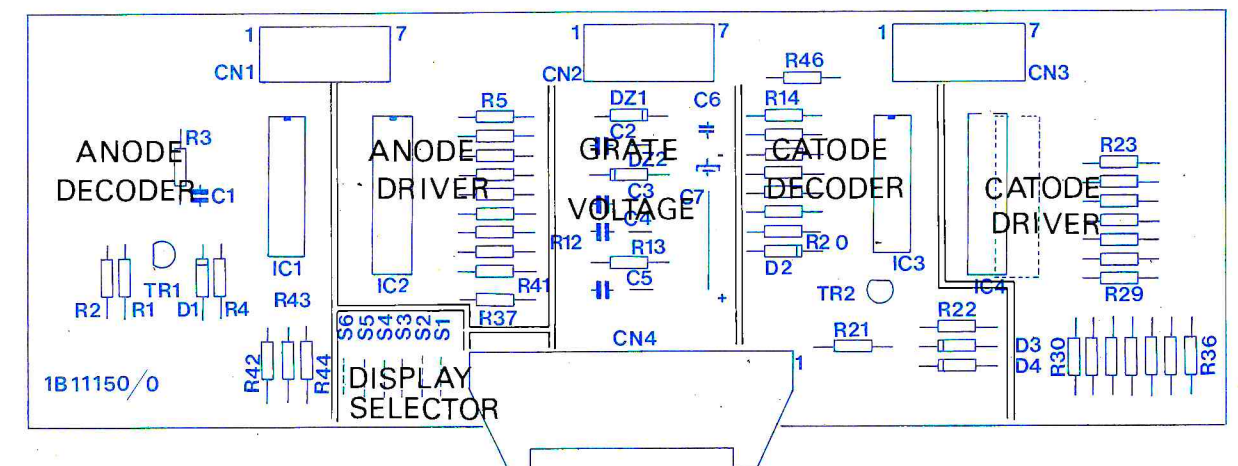
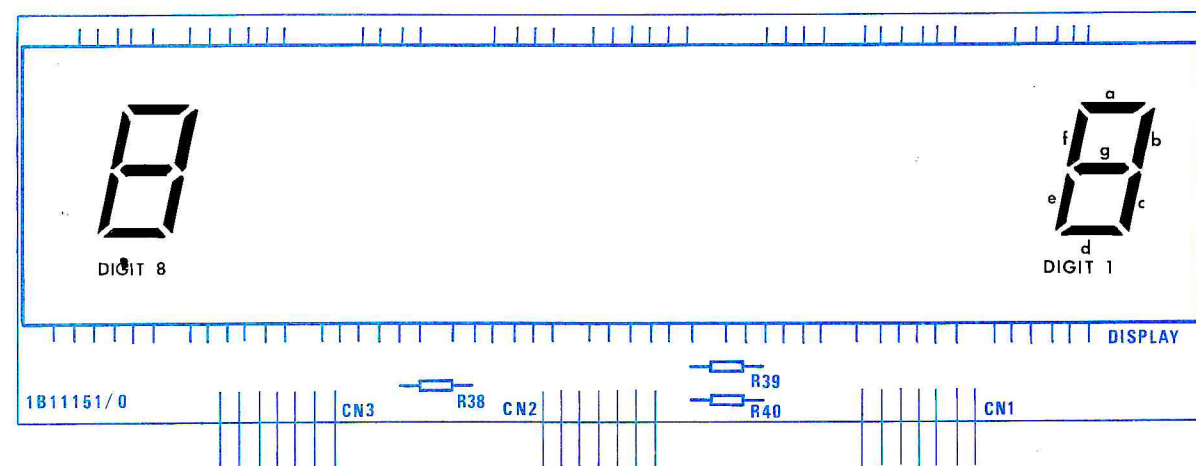


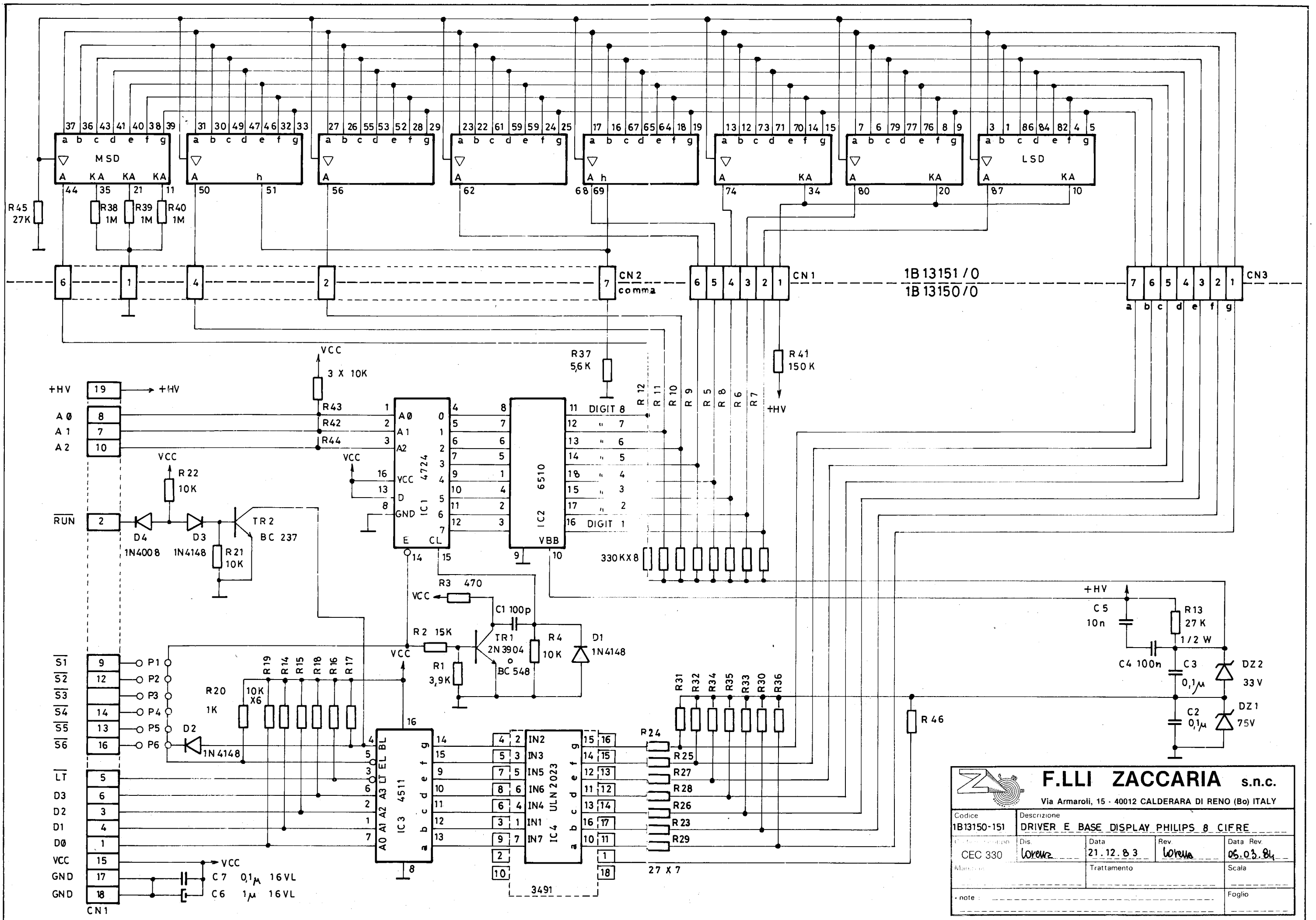
\* WITH HEAT SINK

|                                                                                      |         |          |         |
|--------------------------------------------------------------------------------------|---------|----------|---------|
| <b>F.LI ZACCARIA s.n.c.</b><br>Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) Italy |         |          |         |
| PART NAME                                                                            |         | PART NO. |         |
| Electrical diagram for                                                               |         | 1B1367/0 |         |
| POWER BOARD                                                                          |         |          |         |
| DWN                                                                                  | DATE    | REV.     | SHEET   |
|                                                                                      | 26/7/82 | 10/08/84 | 5.04.84 |
| NOTES: UNLESS OTHERWISE SPECIFIED                                                    |         |          |         |
| 1) ALL RESISTORS VALUES IN                                                           |         |          |         |
| 2) ALL CAPACITORS VALUES IN                                                          |         |          |         |

# BASE & DRIVER DISPLAY board

P.C. 1B11150/0 - 1B11151/0





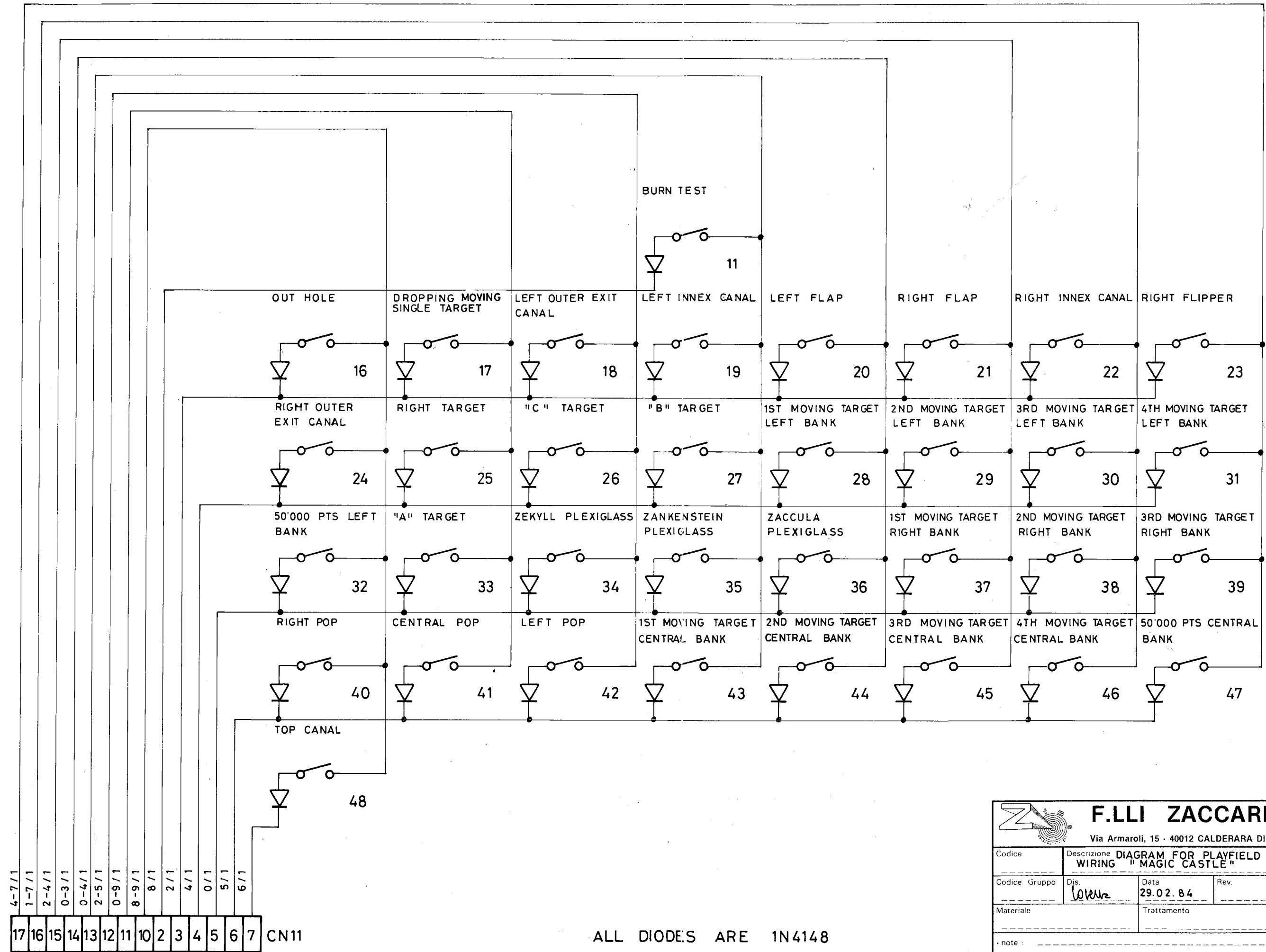
|                                                                                       |                                                      |
|---------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>F.LLI ZACCARIA s.n.c.</b><br>Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY |                                                      |
| Codice<br>1B13150-151                                                                 | Descrizione<br>DRIVER E BASE DISPLAY PHILIPS 8 CIFRE |
| Dis.<br>CEC 330                                                                       | Data<br>21.12.83                                     |
| Rev.<br>Lorella                                                                       | Rev.<br>Lorella                                      |
| Trattamento                                                                           | Scala                                                |
| Foglio                                                                                | Foglio                                               |

P.C. 1B1136\0



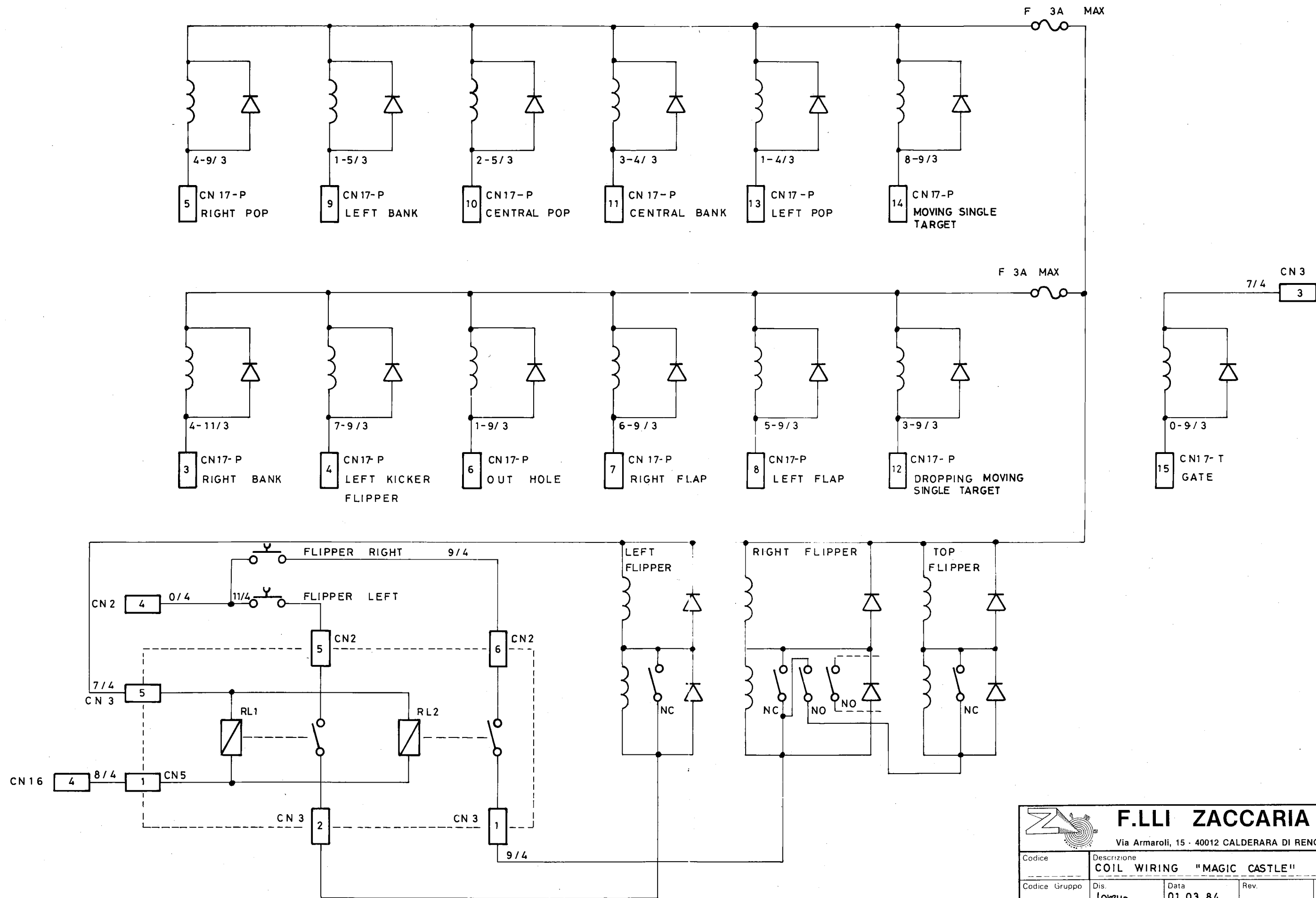
AR 8 32.7 C 70 44 33  
© 1982 ZACCARIA 1B11360A1 RIGHTS RESERVED

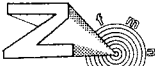




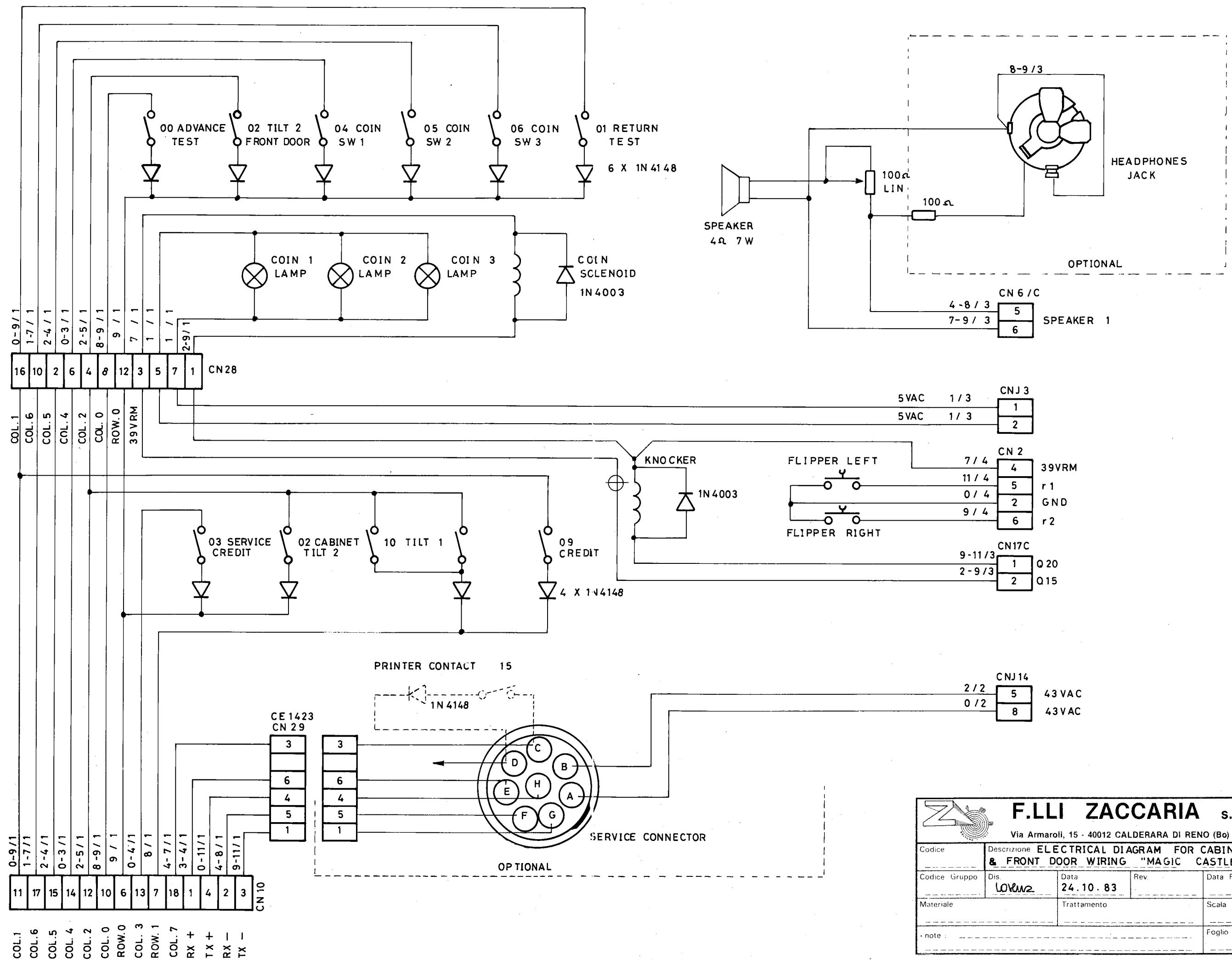
ALL DIODES ARE 1N4148

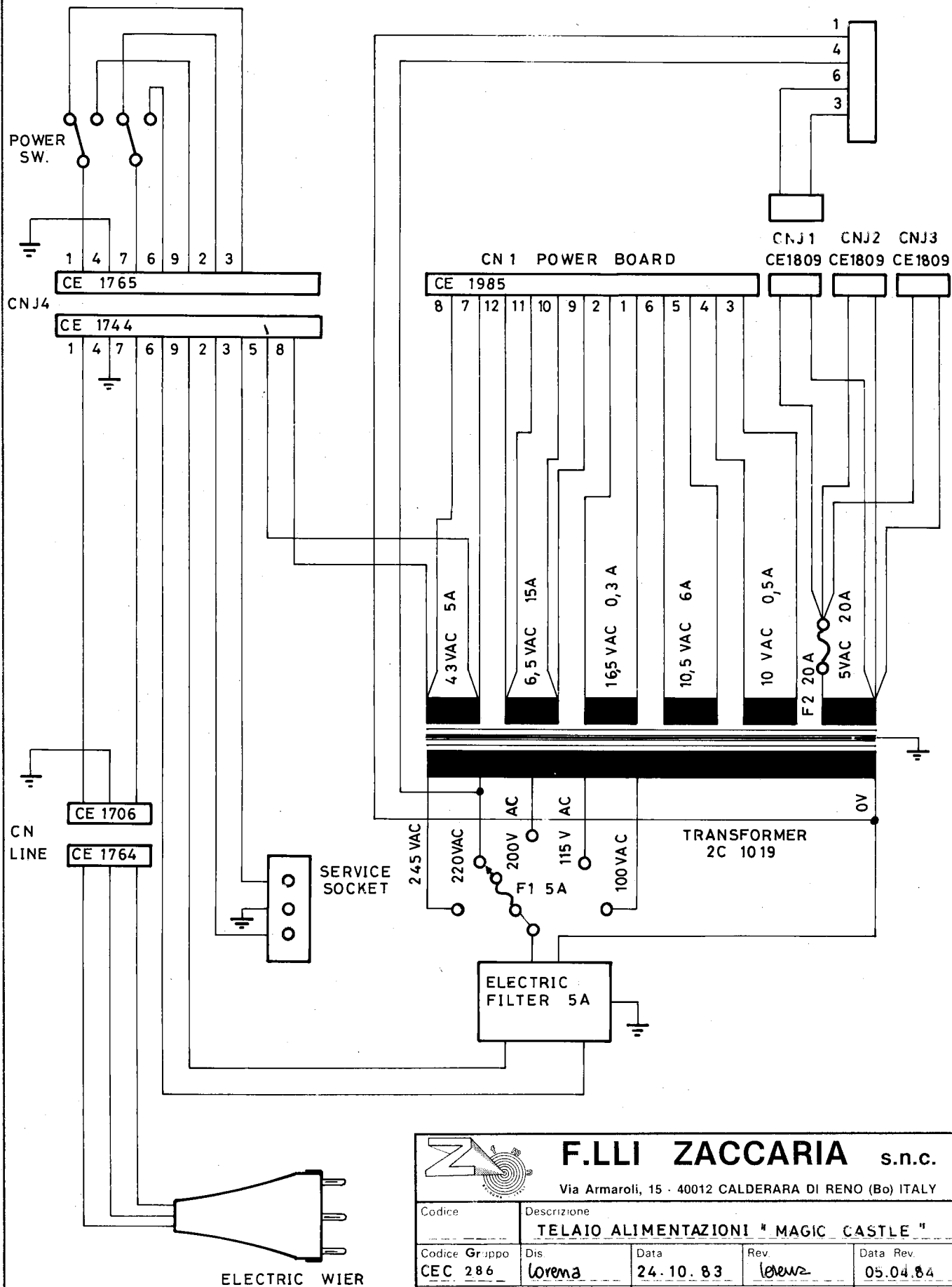
|                                                                                                                                                                             |                                                                         |          |       |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------|-------|-----------|
|  <b>F.LLI ZACCARIA</b> s.n.c.<br>Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY |                                                                         |          |       |           |
| Codice                                                                                                                                                                      | Descrizione <b>DIAGRAM FOR PLAYFIELD CONTACTS WIRING "MAGIC CASTLE"</b> |          |       |           |
| Codice Gruppo                                                                                                                                                               | Dis.                                                                    | Data     | Rev.  | Data Rev. |
|                                                                                                                                                                             | LOWE                                                                    | 29.02.84 |       |           |
| Materiale                                                                                                                                                                   | Trattamento                                                             |          | Scala |           |
| note                                                                                                                                                                        |                                                                         |          |       | Foglio    |



|                                                                                       |  |                                                  |                         |  |                       |  |               |  |
|---------------------------------------------------------------------------------------|--|--------------------------------------------------|-------------------------|--|-----------------------|--|---------------|--|
|  |  |                                                  |                         |  | <b>F.LLI ZACCARIA</b> |  | <b>s.n.c.</b> |  |
| Via Armaroli, 15 - 40012 CALDERARA DI RENO (Bo) ITALY                                 |  |                                                  |                         |  |                       |  |               |  |
| Codice                                                                                |  | Descrizione<br><b>COIL WIRING "MAGIC CASTLE"</b> |                         |  |                       |  |               |  |
| Codice Gruppo                                                                         |  | Dis.<br><i>lorenze</i>                           | Data<br><b>01.03.84</b> |  | Rev.                  |  | Data Rev.     |  |
| Materiale                                                                             |  |                                                  | Trattamento             |  |                       |  | Scala         |  |
| note :                                                                                |  |                                                  |                         |  |                       |  | Foglio        |  |

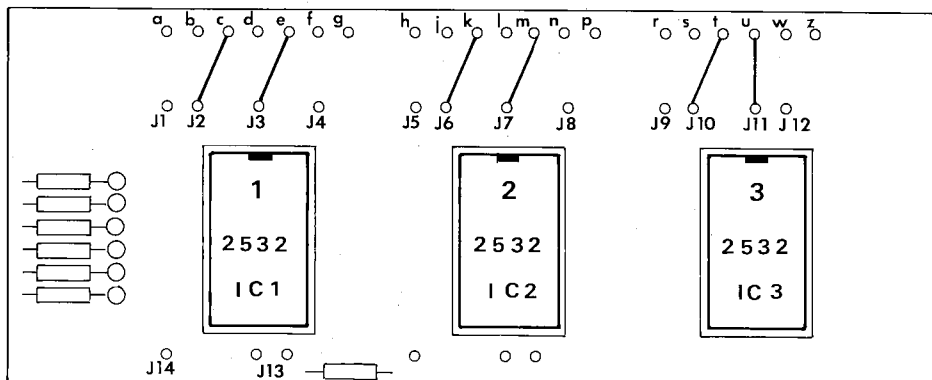






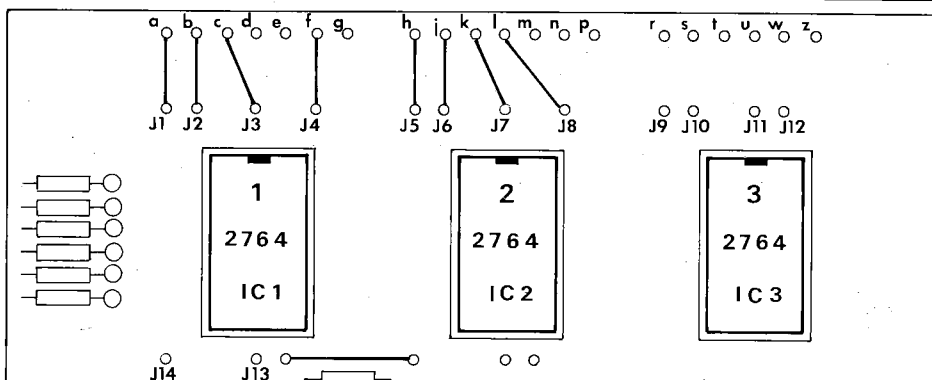
|                                                                                     |  |                                            |                 |               |                 |
|-------------------------------------------------------------------------------------|--|--------------------------------------------|-----------------|---------------|-----------------|
|  |  | <b>F.LLI ZACCARIA</b>                      |                 | <b>s.n.c.</b> |                 |
| Via Armaroli, 15 · 40012 CALDERARA DI RENO (Bo) ITALY                               |  |                                            |                 |               |                 |
| Codice                                                                              |  | Descrizione                                |                 |               |                 |
|                                                                                     |  | <b>TELAIO ALIMENTAZIONI "MAGIC CASTLE"</b> |                 |               |                 |
| Codice Gruppo                                                                       |  | Dis                                        | Data            | Rev.          | Data Rev.       |
| <b>CEC 286</b>                                                                      |  | <b>lorena</b>                              | <b>24.10.83</b> | <b>lorenz</b> | <b>05.04.84</b> |
| Materiale                                                                           |  |                                            | Trattamento     |               | Scala           |
|                                                                                     |  |                                            |                 |               |                 |
| note :                                                                              |  |                                            |                 |               | Foglio          |
|                                                                                     |  |                                            |                 |               |                 |

# JUMP LIST FOR MEMORIES SELECTION



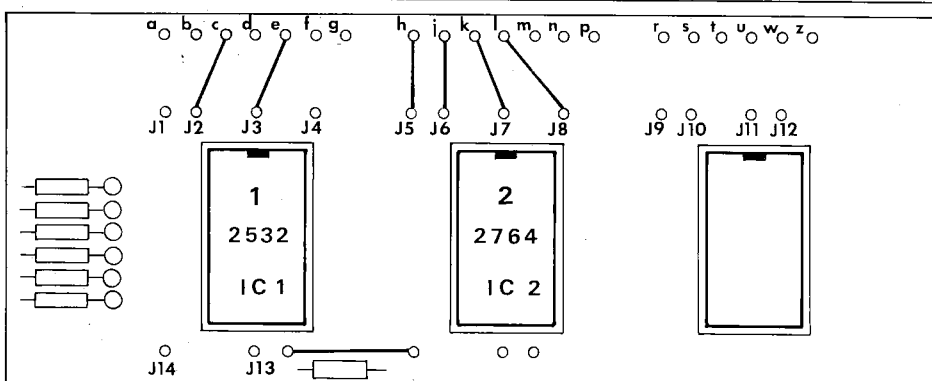
**C.P.U.** P.C. 1B1165  
1B1165 / 0  
1B1165 / 1

-PINBALL CHAMP  
-SOCCER KINGS  
-TIME MACHINE



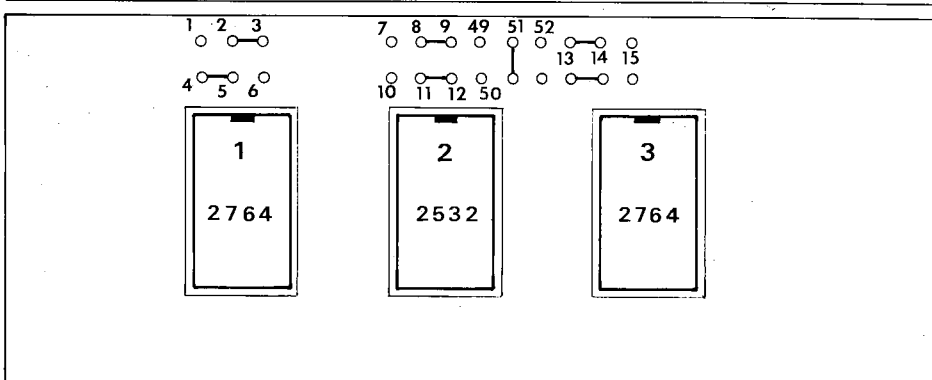
**C.P.U.** P.C. 1B1165  
1B1165 / 0  
1B1165 / 1

-FARFALLA  
-DEVIL RIDERS



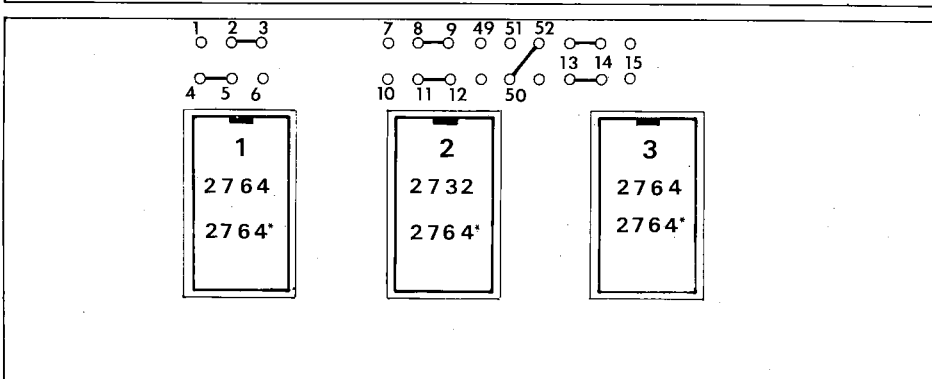
**C.P.U.** P.C. 1B1165 / 2

-MAGIC CASTLE



**SOUND** P.C. 1B11136

-TIME MACHINE



**SOUND** P.C. 1B11136

-FARFALLA  
-DEVIL RIDERS\*  
-MAGIC CASTLE\*

