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Title:

BTU701
Bus Termination Unit
Technical Manual

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Keywords:

RC3600, Nova Bus, Terminator.

Abstract:

This paper contains information about the bus termination in RC3600 systems.

(14 printed pages)

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RCSL No 42-I 2164

CONTENTS Page

INTRODUCTION

The RC 3600 Bus System interconnects the CPU and the controllers. To prevent reflections on the bus lines the bus must be terminated at both ends. One end of the bus is connected to the CPU, and this end is terminated on the CPU board. The other end of the bus must be terminated with the Bus Termination Unit BTU 701.

RC 3600 BUS SYSTEM

The RC 3600 Bus System is shown in Figure 1. The bus starts in the CPU and goes to the first CHS 701 controller chassis and then to the next, if any.

Each chassis has a Bus In socket and a Bus Out socket. The bus goes from the CPU to Bus In Plug on the first chassis on the bus. Inside the cabinet the Bus In Plug is connected to the Bus Out Plug. From the Bus Out Plug on the first chassis the bus goes to the Bus In Plug on the second chassis, and so on. The Bus Termination Unit is connected to the Bus Out Plug on the last chassis.

RC 3600 Bus System

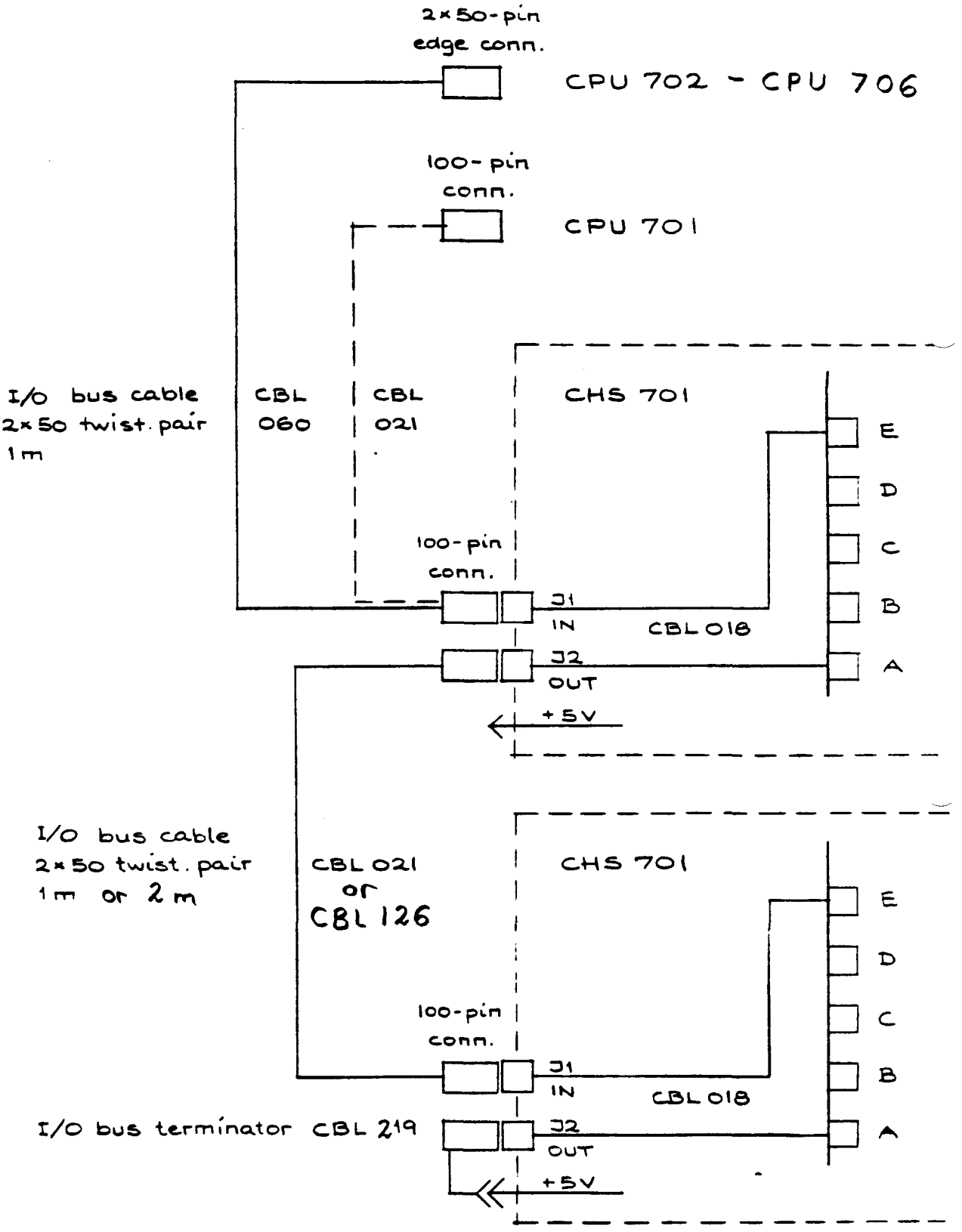


Figure 1

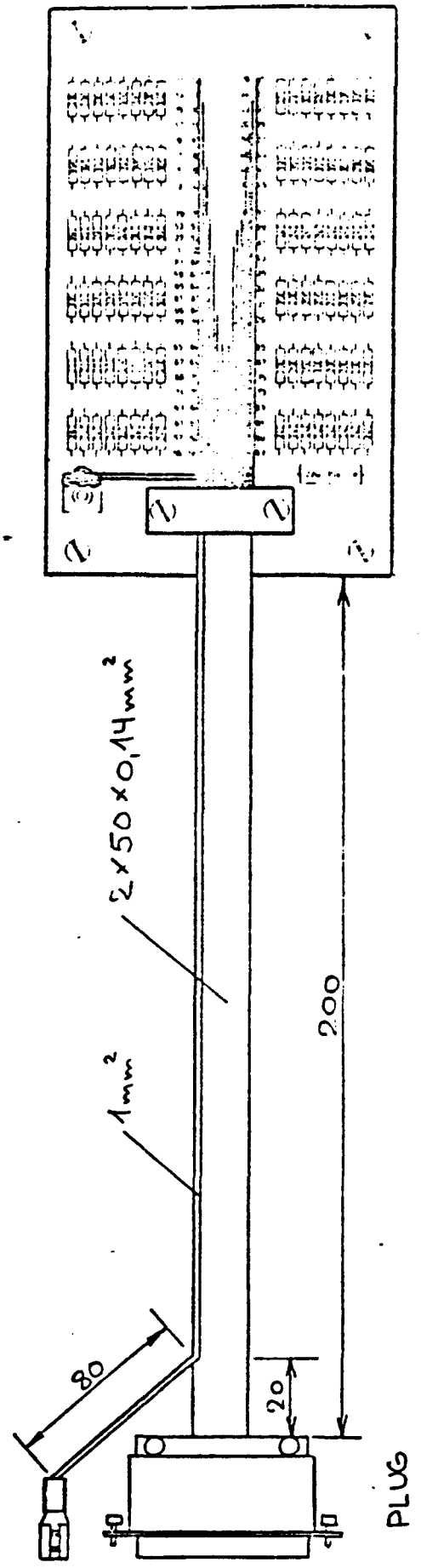
RC 3600 BUS TERMINATION

The RC 3600 Bus is terminated with Bus Termination Unit BTU 701.

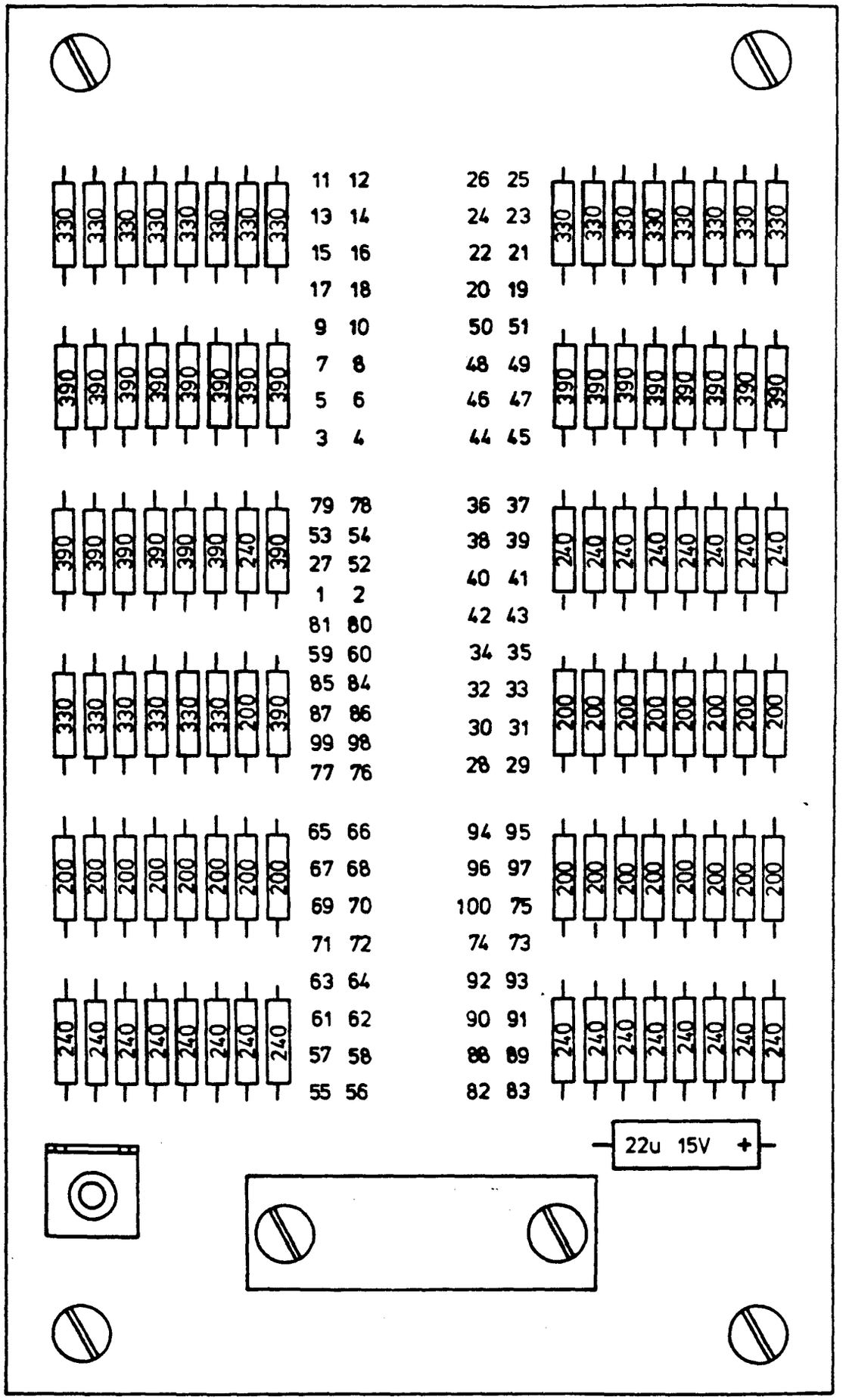
The BTU 701 is composed of a CBL 219 cable and two CHS chassis parts.

The CBL 219 is shown in Figures 2 to 5.

Installation of the BTU 701 is shown in Figure 6.



CBL 219


330
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240
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3 4
79 78
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1 2
81 80
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82 83
22u 15V +

mounting

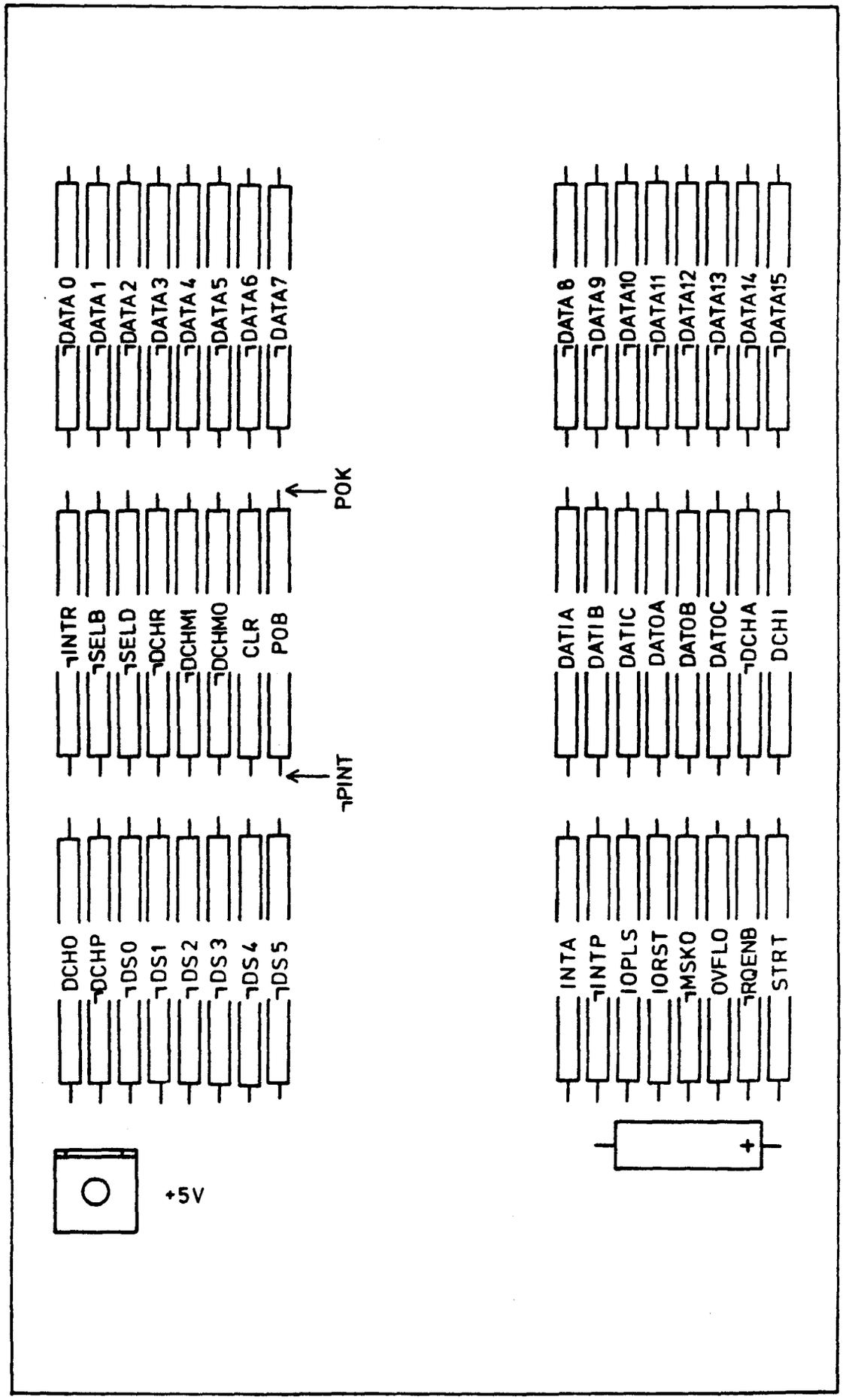

Figure 4

CBL 219


1 CLR
2 0V
3 ⅂DATA 0
4 0V
5 ⅂DATA 1
6 0V
7 ⅂DATA 2
8 0V
9 ⅂DATA 3
10 0V
11 ⅂DATA 4
12 0V
13 ⅂DATA 5
14 0V
15 ⅂DATA 6
16 0V
17 ⅂DATA 7
18 0V
19 ⅂DATA 8
20 0V
21 ⅂DATA 9
22 0V
23 ⅂DATA 10
24 0V
25 ⅂DATA 11
26 0V
27 ⅂DCHMO
28 0V
29 DCHI
30 0V
31 ⅂DCHA
32 0V
33 DATOC
34 0V
35 DATOB
36 0V
37 DATOA
38 0V
39 DATIC
40 0V
41 DATIB
42 0V
43 DATIA
44 0V
45 ⅂DATA 15
46 0V
47 ⅂DATA 14
48 0V
49 ⅂DATA 13
50 0V
51 ⅂DATA 12
52 0V
53 ⅂DCHMI
54 0V
55 DCHO
56 0V
57 IN OUT ⅂DCHP
58 0V
59 ⅂DCHR
60 0V
61 ⅂DS 0
62 0V
63 ⅂DS 1
64 0V
65 ⅂DS 2
66 0V
67 ⅂DS 3
68 0V
69 ⅂DS 4
70 0V
71 ⅂DS 5
72 0V
73 INTA
74 0V
75 IN OUT ⅂INTP
76 0V
77 ⅂PINT
78 0V
79 POK
80 0V
81 POB
82 0V
83 STRT
84 0V
85 ⅂SELD
86 0V
87 ⅂SELB
88 0V
89 ⅂RQENB
90 0V
91 OVFLO
92 0V
93 ⅂MSKO
94 0V
95 IORST
96 0V
97 IOPLS
98 0V
99 ⅂INTR
100 0V

figure 5

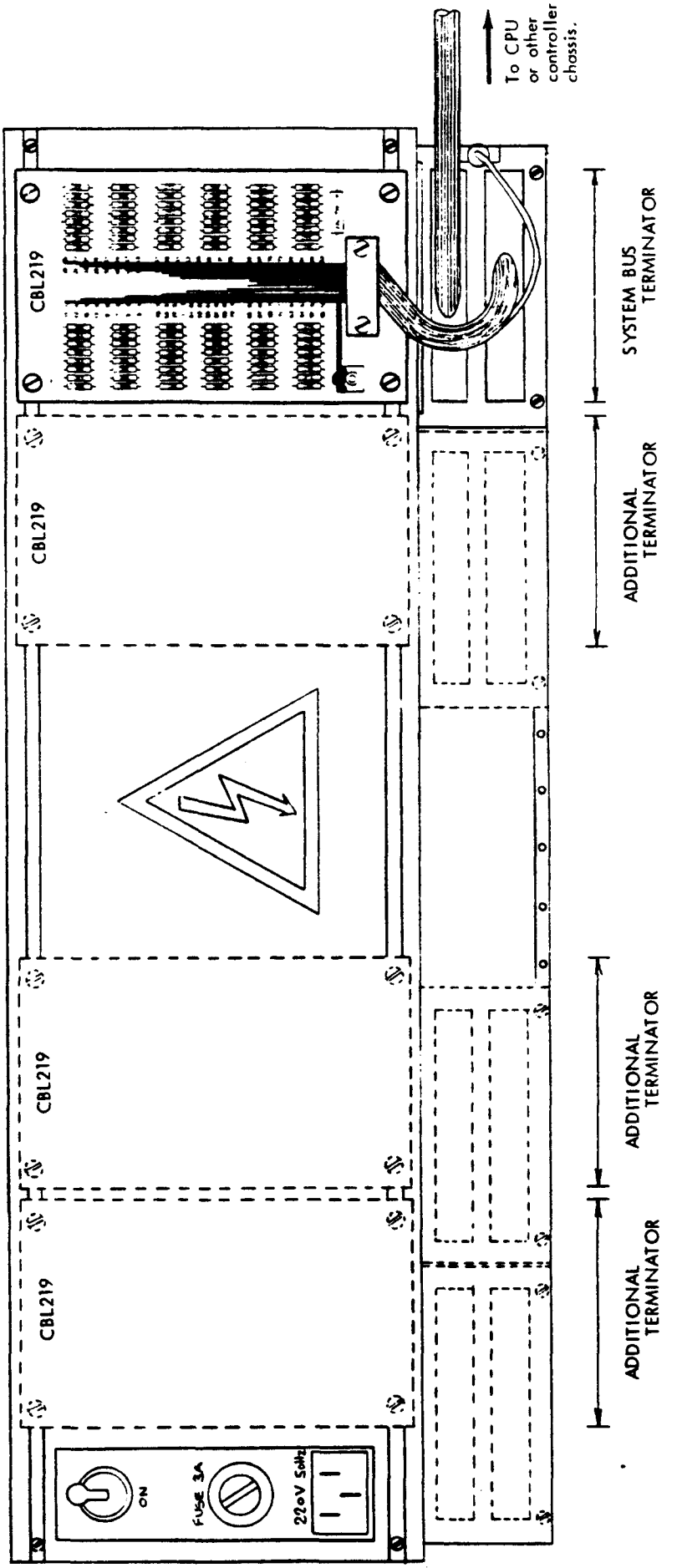
To CPU or other controller chassis.
CBL219
CBL219
CBL219
CBL219
SYSTEM BUS TERMINATOR
ADDITIONAL TERMINATOR
ADDITIONAL TERMINATOR
ADDITIONAL TERMINATOR
ON
FUSE 3A
220V 50Hz

figure 6

RETURN LETTER

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RCSL No.: 44-RT1171

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