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1260 VXI
SWITCHING CARD

1260-36
F.E.T.
MULTIPLEXER / SCANNER

PUBLICATION NO. 980673-017

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RETURN of PRODUCT

Authorization is required from Racal Instruments before you send us your product for service or calibration. Call your nearest Racal Instruments support facility. A list is located on the last page of this manual. If you are unsure where to call, contact Racal Instruments, Inc. Customer Support Department in Irvine, California, USA at 1-800-722-3262 or 1-949-859-8999 or via fax at 1-949-859-7139. We can be reached at: helpdesk@racalinstruments.com.

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FOR YOUR SAFETY

Before undertaking any troubleshooting, maintenance or exploratory procedure, read carefully the **WARNINGS** and **CAUTION** notices.

This equipment contains voltage hazardous to human life and safety, and is capable of inflicting personal injury.

If this instrument is to be powered from the AC line (mains) through an autotransformer, ensure the common connector is connected to the neutral (earth pole) of the power supply.

Before operating the unit, ensure the conductor (green wire) is connected to the ground (earth) conductor of the power outlet. Do not use a two-conductor extension cord or a three-prong/two-prong adapter. This will defeat the protective feature of the third conductor in the power cord.

Maintenance and calibration procedures sometimes call for operation of the unit with power applied and protective covers removed. Read the procedures and heed warnings to avoid “live” circuit points.

Before operating this instrument:

1. Ensure the instrument is configured to operate on the voltage at the power source. See Installation Section.

2. Ensure the proper fuse is in place for the power source to operate.

3. Ensure all other devices connected to or in proximity to this instrument are properly grounded or connected to the protective third-wire earth ground.

If the instrument:

- fails to operate satisfactorily
- shows visible damage
- has been stored under unfavorable conditions
- has sustained stress

Do not operate until performance is checked by qualified personnel.

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NOTE FOR SYSTEMS WITH 1260-OPT 01T

The “Module-Specific Syntax” section of this manual shows the command syntax for the 1260-01S Smart Card. If you are using the newer 1260-01T Smart Card, the commands will NOT work as shown.

Consult the 1260-01T Manual for a description of the commands that may be used with the 1260-01T Smart Card.

The channel numbers described in this manual are valid for the 1260-01T. The channel numbers continue to be used for the 1260-01T.

The syntax of the commands that use channel numbers has changed for those cards controlled by the 1260-01T.

The new syntax used to close a channel is:

CLOSE (@ <module address> (<channel>))

For example, for a relay module whose <module address> is set to 7, closing <channel> 0 is performed with the command:

CLOSE (@7 (0))

Using the older 1260-01S, the command would be (as shown in this manual):

CLOSE 7.0

Many other command syntax differences exist. Please consult chapter 2 of the 1260-01T manual for a description of the commands that are available for the 1260-01T.

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Control Information for the 1260-36

This card has a unique control scheme that is NOT shared by any other 1260 series relay module. This card comprises 12 1x8 MUXes. There is a total of 6 control registers on the module. Each byte controls 2 1x8 MUXes.

The control bit assignment for each MUX is shown below:

Bit 7 (MSB)	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0 (LSB)
CODD	CEVEN	ODD2	ODD1	ODD0	EVEN2	EVEN1	EVEN0

Each MUX is controlled with one control bit and 3 select bits:

CEVEN — Control Bit for EVEN MUXes (0X, 2X, 4X, 6X, 8X, 10X, X = 0 to 7)

EVEN2
EVEN1 — Select Bits for EVEN MUXes
EVEN0

CODD — Control Bit for ODD Muxes (1X,3X,5X,7X,9X,11X, X = 0 to 7)

ODD2
ODD1 — Select Bits for ODD MUXes
ODD0

When the Control Bit for a MUX is 0, no channels in that MUX are closed. In this case, the value of the 3 Select Bits for the MUX do not affect the operation of the MUX.

When the Control bit is 1, the channel closed is selected by the Select Bits

0	Channel 0 of MUX is closed
1	Channel 1 of MUX is closed
2	Channel 2 of MUX is closed
3	Channel 3 of MUX is closed
4	Channel 4 of MUX is closed
5	Channel 5 of MUX is closed
6	Channel 6 of MUX is closed
7	Channel 7 of MUX is closed

So the following patterns control the ODD and EVEN MUXes within each control register:

EVEN MUX Select Patterns

Hex Pattern	Binary Pattern	Channel Closed
00	x0xx x000	None (Control Bit = 0)
01	x0xx x001	None (Control Bit = 0)
02	x0xx x010	None (Control Bit = 0)
03	x0xx x011	None (Control Bit = 0)
04	x0xx x100	None (Control Bit = 0)
05	x0xx x101	None (Control Bit = 0)
06	x0xx x110	None (Control Bit = 0)
07	x0xx x111	None (Control Bit = 0)
40	x1xx x000	Channel 0 of EVEN MUX closed
41	x1xx x001	Channel 1 of EVEN MUX closed
42	x1xx x010	Channel 2 of EVEN MUX closed
43	x1xx x011	Channel 3 of EVEN MUX closed
44	x1xx x100	Channel 4 of EVEN MUX closed
45	x1xx x101	Channel 5 of EVEN MUX closed
46	x1xx x110	Channel 6 of EVEN MUX closed
47	x1xx x111	Channel 7 of EVEN MUX closed

ODD MUX Select Patterns

Hex Pattern	Binary Pattern	Channel Closed
00	0x00 0xxx	None (Control Bit = 0)
08	0x00 1xxx	None (Control Bit = 0)
10	0x01 0xxx	None (Control Bit = 0)
18	0x01 1xxx	None (Control Bit = 0)
20	0x10 0xxx	None (Control Bit = 0)
28	0x10 1xxx	None (Control Bit = 0)
30	0x11 0xxx	None (Control Bit = 0)
38	0x11 1xxx	None (Control Bit = 0)
80	1x00 0xxx	Channel 0 of ODD MUX closed
88	1x00 1xxx	Channel 1 of ODD MUX closed
90	1x01 0xxx	Channel 2 of ODD MUX closed
98	1x01 1xxx	Channel 3 of ODD MUX closed
A0	1x10 0xxx	Channel 4 of ODD MUX closed
A8	1x10 1xxx	Channel 5 of ODD MUX closed
B0	1x11 0xxx	Channel 6 of ODD MUX closed
B8	1x11 1xxx	Channel 7 of ODD MUX closed

The control registers are formed by OR-ing the EVEN control pattern with the ODD control pattern.

Example:

Control Register 0 Value = B8 hexadecimal (= 1011 1000 binary)

EVEN MUX No Channels Closed (Channels 00 through 07)
ODD MUX Channel 7 of MUX Closed (= Channel 17)

Control Register 1 Value = 40 hexadecimal (= 0100 0000 binary)

EVEN MUX Channel 0 of MUX Closed (= Channel 20)
ODD MUX No Channels Closed (Channels 30 through 37)

Control Register 2 Value = F8 hexadecimal (= 1111 1000 binary) (= B8 ORed with 40)

EVEN MUX Channel 0 of MUX Closed (= Channel 40)
ODD MUX Channel 7 of MUX Closed (= Channel 57)

Control Register 3 Value = DA hexadecimal (= 1101 1010 binary) (= 42 ORed with 98)

EVEN MUX	Channel 2 of MUX Closed (= Channel 62)
ODD MUX	Channel 3 of MUX Closed (= Channel 73)

Control Register 4 Value = 33 hexadecimal (= 0011 0011) (= 30 ORed with 03)

EVEN MUX	No Channels Closed (= Channels 80 through 87) (CEVEN = 0)
ODD MUX	No Channels Closed (= Channels 90 through 97) (CODD = 0)

Control Register 5 Value = C6 hexadecimal (= 1100 0000) (= 80 ORed with 46)

EVEN MUX	Channel 6 of MUX Closed (= Channel 106)
ODD MUX	Channel 0 of MUX Closed (= Channel 110)

The A24 address of each control register is based on three items:

- the A24 Offset assigned by the Resource Manager
- the Module Address assigned to the relay module with DIP Switch SW-1
- which control register to write to (Control Register 0 through 5)

Control Register 0 is located at the base address for the module. For example:

Offset from Resource Manager = 200 000 hexadecimal
Module Address = 3 (decimal) Module Address x 400 hex (1024 decimal) = C00 hex
Base Offset of each 1260 Module = (A24 Offset) + ((Module Address) x 400 hex) + 1

(200 000) + (C00) + 1 = 200 C01

Control Registers are located only at odd addresses. Therefore, Control Registers would be located at the following addresses

Control Register 0	200 C01
Control Register 1	200 C03
Control Register 2	200 C05
Control Register 3	200 C07
Control Register 4	200 C09
Control Register 5	200 C0B

NOTE: When using VISA functions, such as viIn8() and viOut8(), the A24 offset is already included by VISA. Therefore, when using a function such as viOut8() to write the value C6 (hex) to Control Register 5 in the example above, do **NOT** include the A24 in the function call:

Thus, the following function call may be used to write the value C6 to control register 5.

```
viOut8( hdl, 0xC0B,  0xC6 );
```

The 1260-36 is the only 1260 Series Module where the data read back from the control register is NOT inverted. If the value C6 is written to a control register, the value read back will be C6.

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Chapter 1

MODULE SPECIFICATION

1260-36 Module Specification

The 1260-36 FET. Multiplexer/Scanner Module is a VXIbus switch module containing twelve 1 x 8 multiplexers. It has the capability of being configured as six 1 x 16 mutilplexers, four 1 x 24 multiplexers, three 1 x 32 multiplexers, two 1 x 48 multiplexers, or one 1 x 96 multiplexer. The configuration is user selectable, but is supplied by the factory in one 1 x 96 multiplexer. A block diagram of the module is shown in Figure 3-2.

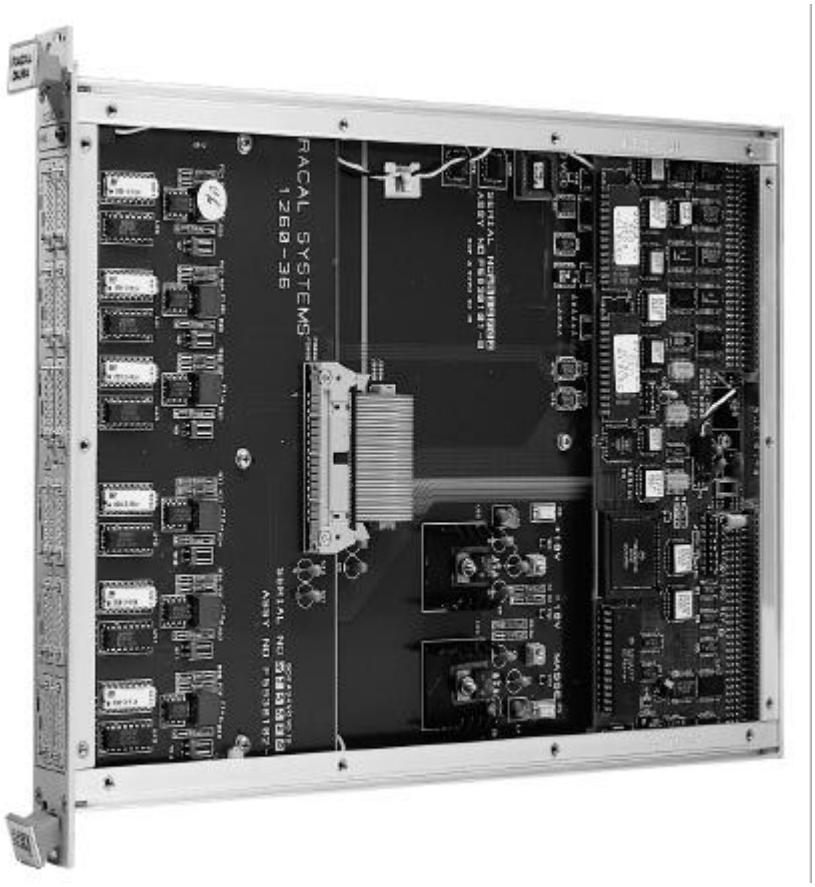


Figure 1-1, 1260-36 F.E.T. Multiplexer/Scanner Module

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Specifications

Switch Configuration	Break-Before-Make Action
Analog Signal Range	-15V to +15V DC to 250 kHz -10V to +10V to 400 kHz -5V to +5V to 2 MHz
Overvoltage Protection	± 35 V peak, continuously
Input Impedance	Nominal 900kΩ ±15%
Input Leakage Current (Off state)	<20 nA
Capacitance Open Channel	20 pF typical
OFF Isolation (3OVpp) (See Figure 1-1)	- 80dB at 1kHz, - 70dB at 10kHz - 60dB at 100kHz, - 50dB at 1MHz
Crosstalk (3OVpp) (See Figure 1-1)	- 80dB at 1kHz, - 60dB at 10kHz - 50dB at 100kHz, - 30dB at 1MHz
Bandwidth (-3dB)	DC to 2MHz ($5V_{pp}$)
Slew Rate	> 25V/µs
Phase Delay	<4° at 100kHz
Gain Variation with Temperature	± 0.1dB (DC to 100kHz)
Output Impedance	< 2Ω
Output Offset Voltage	< ± 30µV at 23^0C ± 3^0C (Output current < 10mA) < ± 120µV from 0^0C to 50^0C
Maximum Output Current	± 35mA per group
Maximum Switching Speed	100 operations/second
Power Requirement	+5V 2.5A +24V 600mA maximum -24V 600mA maximum
Cooling Requirement	4 l/Sec

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Dimension	C-size, single slot
User Connectors	Twelve 20-pin, Positronics SGMC 20
Weight	1.45kg (3.19 lb.) without Option 01 1.590kg (3.50 lb.) with Option 01

Specifications (Other Configurations)

Configuration	Bandwidth	Input impedance
Six 1x16	1MHz	833kΩ // 40pF
Four 1x24	800kHz	770kΩ // 60pF
Three 1x32	500kHz	711kΩ // 80pF
Two 1x48	400kHz	625kΩ // l20pF
One 1x96	200kHz	454kΩ // 240pF

OFF Isolation Measuerment

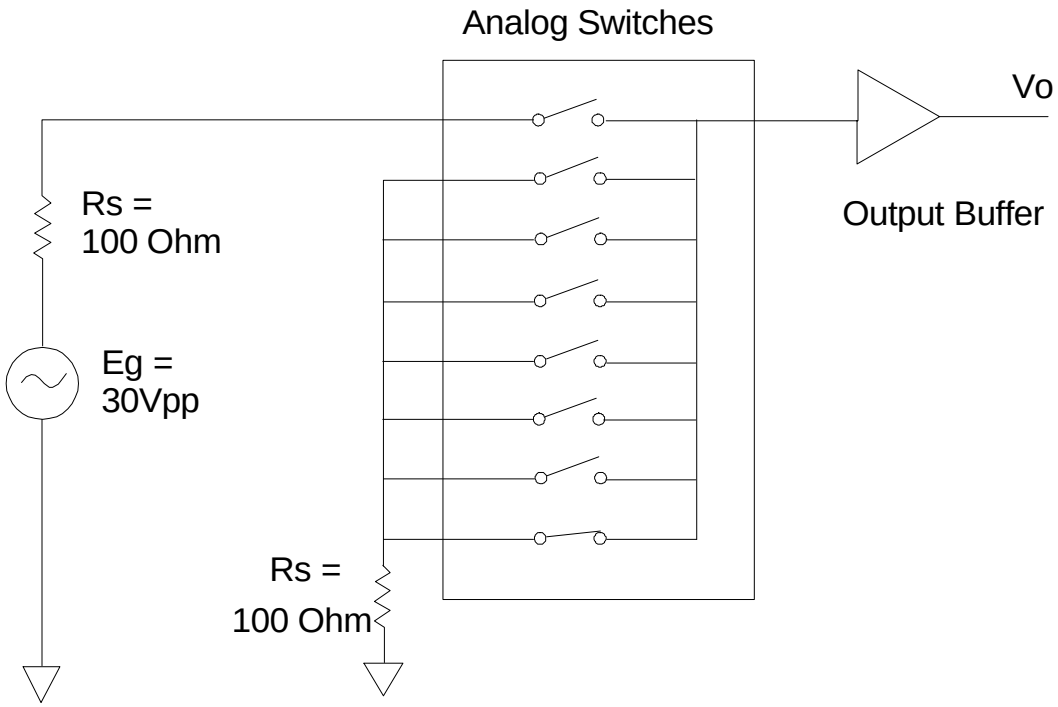


Figure 1-2, 1260-36 Off Isolation

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Crosstalk Measurement

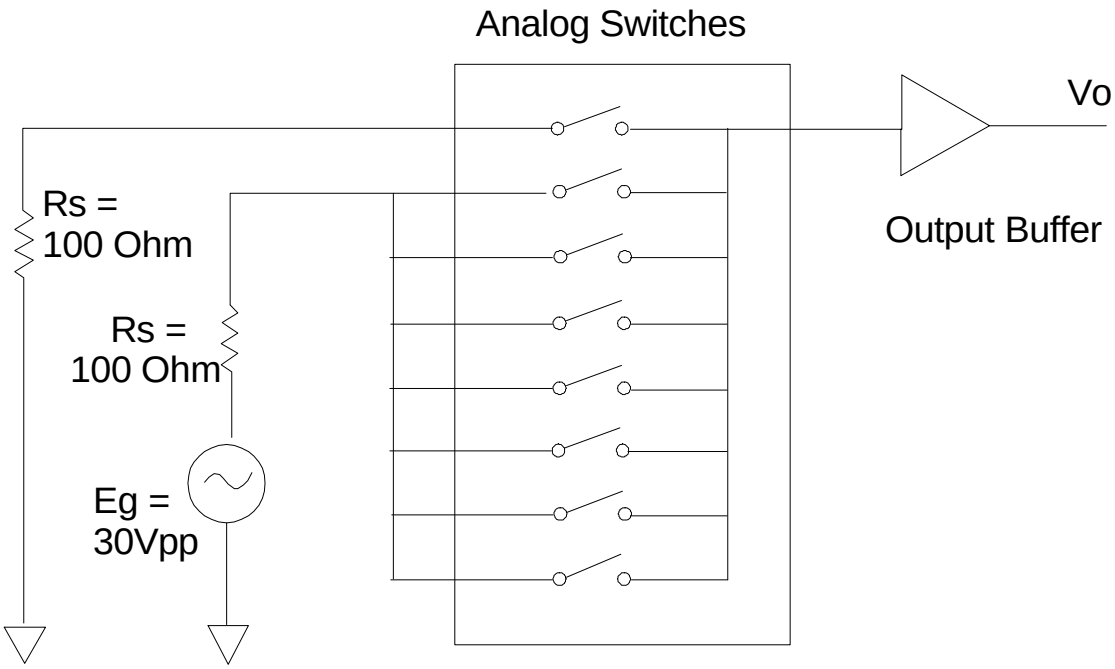


Figure 1-3, 1260-36 Crosstalk Measurement

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Chapter 2
INSTALLATION INSTRUCTIONS

Unpacking and Inspection

Before unpacking the switching module, check the exterior of the shipping carton for any signs of damage. All irregularities should be noted on the shipping bill. Remove the instrument from its carton, preserving the factory packaging as much as possible. Inspect the switching module for any defect or damage. Immediately notify the carrier if any damage is apparent. Have a qualified person check the instrument for safety before use.

CAUTION

Proper ESD handling procedures must always be used when packing, unpacking or installing any 1260 Series cards. Failure to do so may cause damage to the unit.

Reshipment Instructions

Use the original packing when returning the switching module to Racal Instruments for calibration or servicing. The original shipping carton and the instrument's plastic foam will provide the necessary support for safe reshipment. If the original packing is unavailable, wrap the switching module in plastic sheeting and use plastic spray foam to surround and protect the instrument. Reship in either the original or a new shipping carton.

Option 01 Installation

Installation of the Option 01 to the 1260-36 is described in the Installation Section of the 1260 Series VXIbus Switching Cards Manual.

Module Installation

Installation of the 1260-36 Switching Module into a VXIbus mainframe, including the setting of DIP switches, is described in the Installation Section of the 1260 Series VXIbus Switching Cards Manual. Configuration of the PCBA and setting DIP switches S1-5 and S1-6 are described in the following sections.

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Configuration Jumpers

The 1260-36 Multiplexer/Scanner Module is a user configurable switching module that may be configured in six different configurations as follows:

1) Twelve 1 x 8 multiplexer/scanners
2) Six 1 x 16 multiplexer/scanners
3) Four I x 24 multiplexer/scanners
4) Three I x 32 multiplexer/scanners
5) Two I x 48 multiplexer/scanners
6) One 1 x 96 multiplexer/scanners

The 1260-36 is shipped from the factory in the 1 x 96 multiplexer configuration. Table 2-I gives information necessary to configure the module into other possible configurations.

Table 2-1, 1260-36 Jumper Installation

An XXX indicates a jumper is to be fitted. A blank indicates no jumper is to be fitted.

	12(1x8)	6(1x16)	**4 (1 x24)**	**3 (1x32)**	2 (1x48)	1 (1x96)
W1		XXX	XXX	XXX	XXX	XXX
W2			XXX	XXX	XXX	XXX
W3		XXX		XXX	XXX	XXX
W4			XXX		XXX	**XXX**
W5		XXX	XXX	XXX	XXX	XXX
W6				XXX		XXX
W7		XXX	XXX	XXX	XXX	XXX
W8			XXX		XXX	XXX
W9		XXX		XXX	XXX	XXX
W10			XXX	XXX	XXX	XXX
W11		XXX	XXX	XXX	XXX	XXX

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Chapter 3

MODULE SPECIFIC SYNTAX

1260-36 Module Specific Syntax

The Module Specific Syntax for the 1260-36 is required in the use of the OPEN and CLOSE commands. It also appears in data output by the Master in response **to** the PDATAOUT and PSETUP commands.

Syntax

The Module Specific Syntax for the 1260-36 F.E.T. Multiplexer/Scanner module is as follows:

<module address>.<group> <channel number>

where <module address> is the address.
<group> is the reference number of the mux on which a channel is to be closed; value 0 to 11
<channel number> is the reference number of the hannel to be closed; value 0 to 7

NOTE

The <module address> used here is <u>not</u> the VXIbus defined logical address of the 1260 Series Master. It is unique to the 1260 Series and describes the switching module in relation to the Master. This address corresponds to the binary value of the switch setting of SW1 on the switching module PCB.

The actual mapping of number to connector pins is given in Table 3-1. Figure 3-2 shows the physical location of the various connector pins.

Table 3-1, 1260-36 Channel Closure

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<group>	<channel>	<channel> output pins to <channel> input pins	
0	0	J0-J,M	J0-C
	1	J0-J,M	J0-K
	2	J0-J,M	J0-S
	3	J0-J,M	J0-X
	4	J0-J,M	J0-A
	5	J0-J,M	J0-H
	6	J0-J,M	J0-P
	7	J0-J,M	J0-W
1	0	J1-J,M	J1-C
	1	J1-J,M	J1-K
	2	J1-J,M	J1-S
	3	J1-J,M	J1-X
	4	J1-J,M	J1-A
	5	J1-J,M	J1-H
	6	J1-J,M	J1-P
	7	J1-J,M	J1-W
2	0	J2-J,M	J2-O
	1	J2-J,M	J2-k
	2	J2-J,M	J2-S
	3	J2-J_1M	J2-X
	4	J2-J,M	J2-A
	5	J2-J,M	J2-H
	6	J2-J_1M	J2-P
	7	J2-J,M	J2-W
3	0	J3-J,M	J3-C
	1	J3-J_1M	J3-K
	2	J3-J,M	J3-S
	3	J3-J,M	J3-X
	4	J3-J,M	J3-A
	5	J3-J,M	J3-H
	6	J3-J_1M	J3-P
	7	J3-J,M	J3-W
4	0	J4-J,M	J4-C
	1	J4-J,M	J4-K
	2	J4-J,M	J4-S
	3	J4-J,M	J4-X
	4	J4-J,M	J4-A
	5	J4-J,M	J4-H
	6	J4-J,M	J4-P
	7	J4-J,M	J4-W

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Table 3-1, 1260-36 Channel Closure (Continued)

<group>	<channel>	<channel> output pins to	<channel> input pins
5	0	J5-J,M	J5-C
	1	J5-J,M	J5-K
	2	J5-J,M	J5-S
	3	J5-J,M	J5-X
	4	J5-J,M	J5-A
	5	J5-J,M	J5-H
	6	J5-J_1M	J5-P
	7	J5-J,M	J5-W
6	0	J6-J_1M	J6-C
	1	J6-J,M	J6-K
	2	J6-J,M	J6-S
	3	J6-J,M	J6-X
	4	J6-J,M	J6-A
	5	J6-J,M	J6-H
	6	J6-J,M	J6-P
	7	J6-J,M	J6-W
7	0	J7-J,M	J7-C
	1	J7-J,M	J7-K
	2	J7-J,M	J7-S
	3	J7-J,M	J7-X
	4	J7-J,M	J7-A
	5	J7-J,M	J7-H
	6	J7-J,M	J7-P
	7	J7-J,M	J7-W
8	0	J8-J,M	J8-C
	1	J8-J_1M	J8-K
	2	J8-J,M	J8-S
	3	J8-J,M	J8-X
	4	J8-J,M	J8-A
	5	J8-J,M	J8-H
	6	J8-J,M	J8-P
	7	J8-J,M	J8-W
9	0	J9-J,M	J9-C
	1	J9-J,M	J9-K
	2	J9-J,M	J9-S
	3	J9-J,M	J9-X
	4	J9-J,M	J9-A
	5	J9-J,M	J9-H
	6	J9-J,M	J9-P
	7	J9-J,M	J9-W

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Table 3-1, 1260-36 Channel Closure (Continued)

<group>	<channel>	<channel> output pins	to <channel> input pins
10	0	J10-J,M	J10-C
	1	J10-J,M	J10-K
	2	J10-J,M	J10-S
	3	J10-J,M	J10-X
	4	J10-J,M	J10-A
	5	J10-J,M	J10-H
	6	J10-J,M	J10-P
	7	J10-J,M	J10-W
11	0	J11-J,M	J11-C
	1	J11-J,M	J11-K
	2	J11-J,M	J11-S
	3	J11-J,M	J11-X
	4	J11-J,M	J11-A
	5	J11-J,M	J11-H
	6	J11-J,M	J11-P
	7	J11-J,M	J11-W

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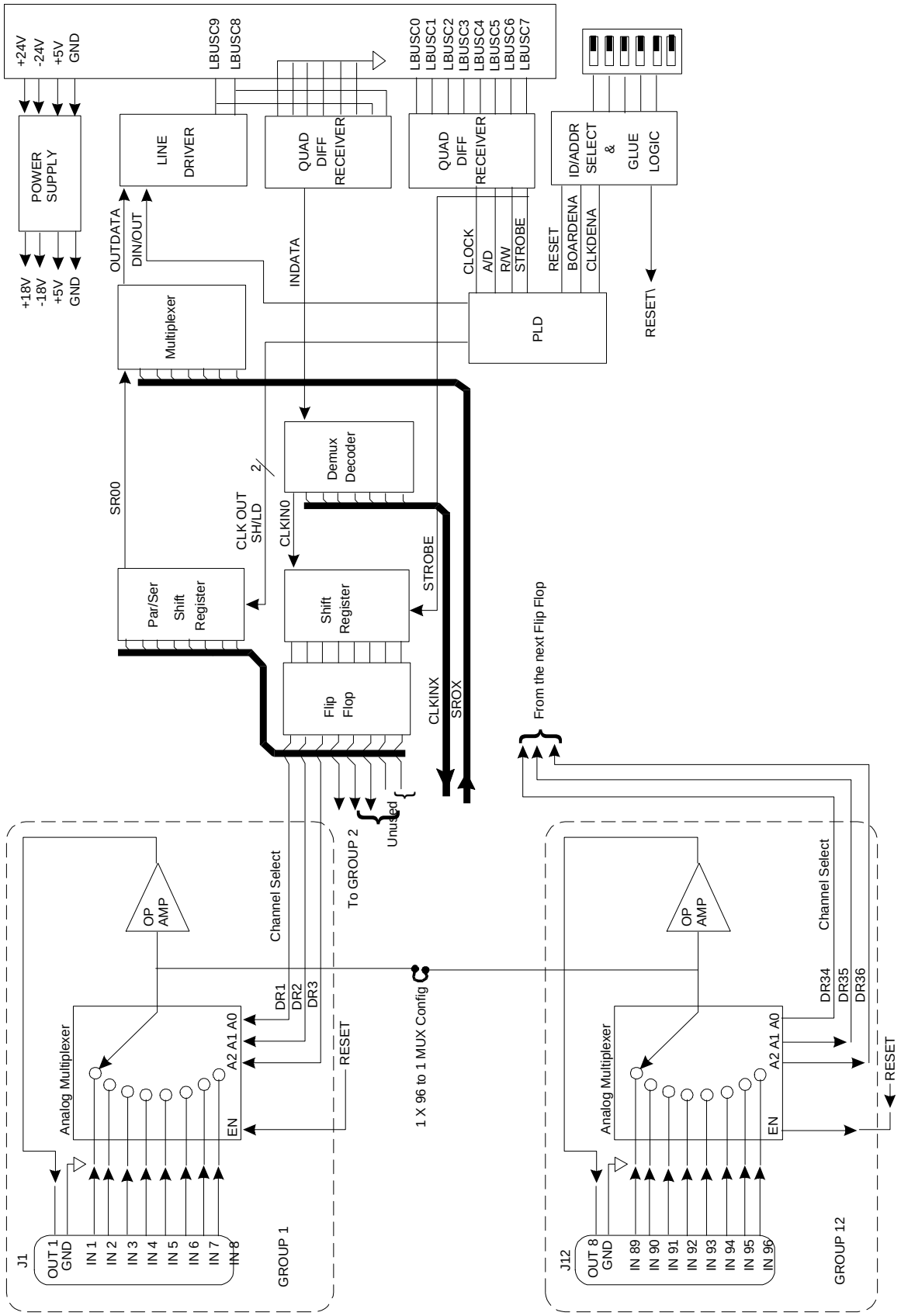


Figure 3-1, 1260-36 Block Diagram

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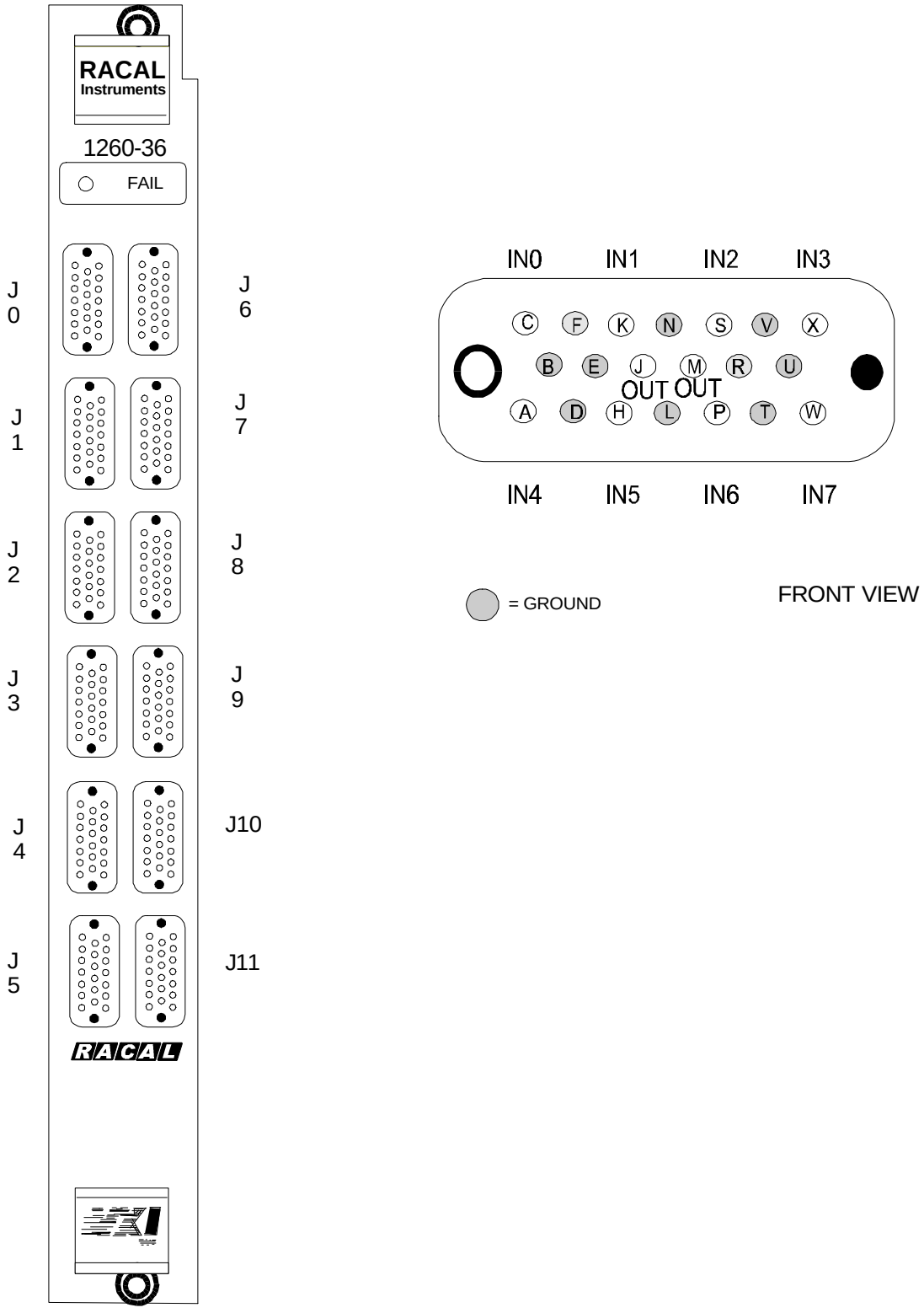


Figure 3-2, 1260-36 Pin Connections, Front View

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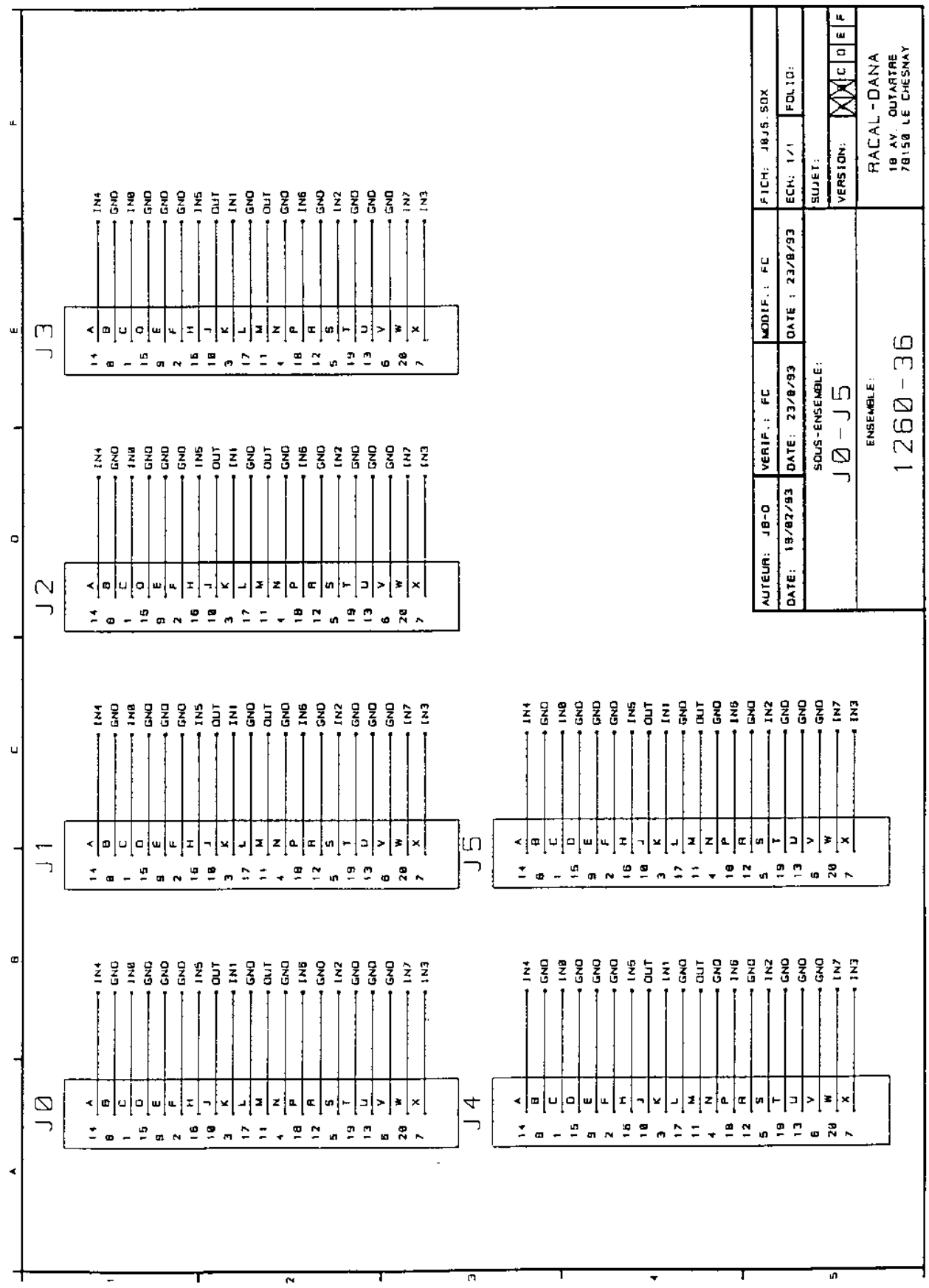
Chapter 4
DRAWINGS

F2930101 Schematic, 1260-36.....4-3

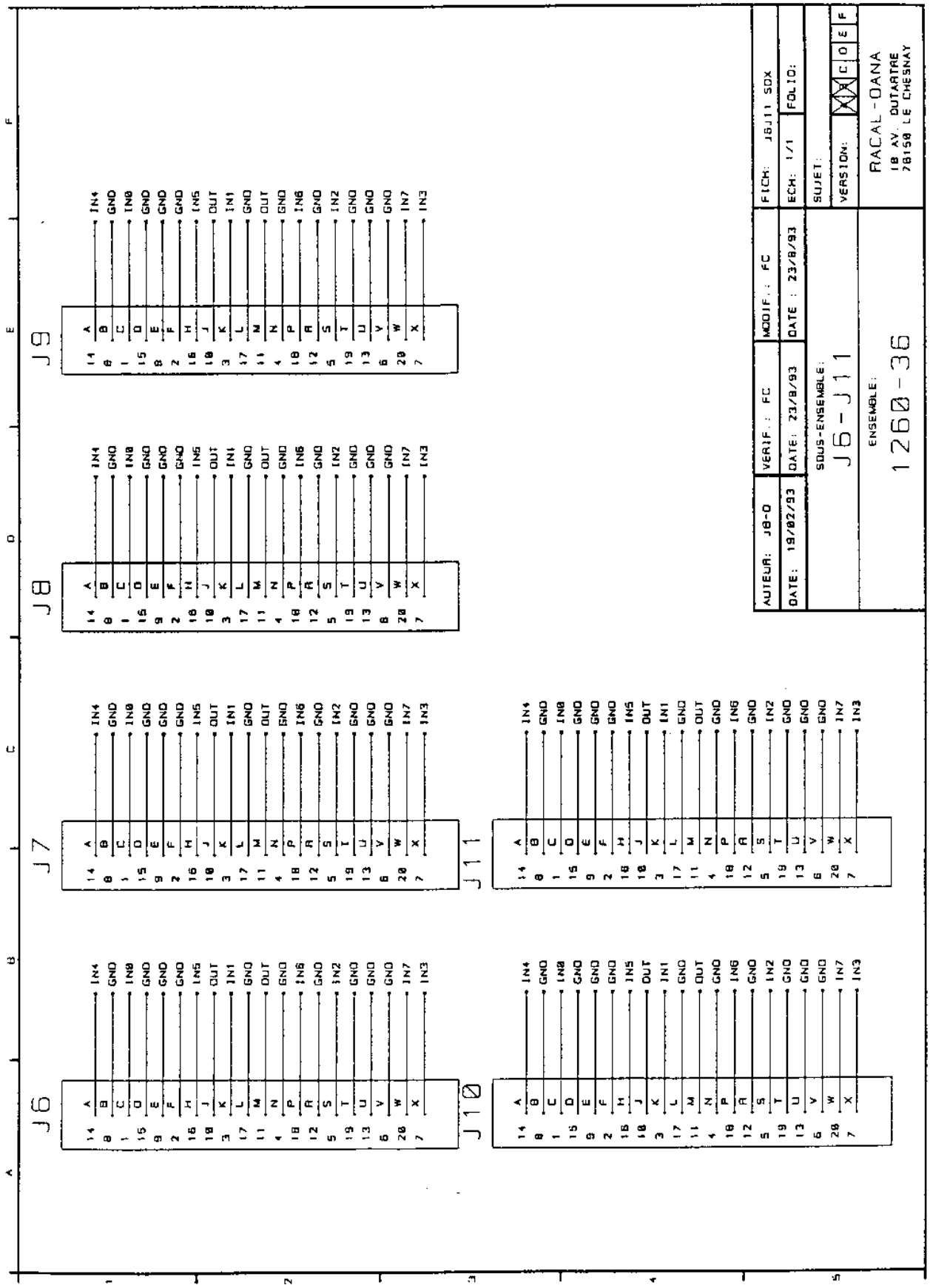
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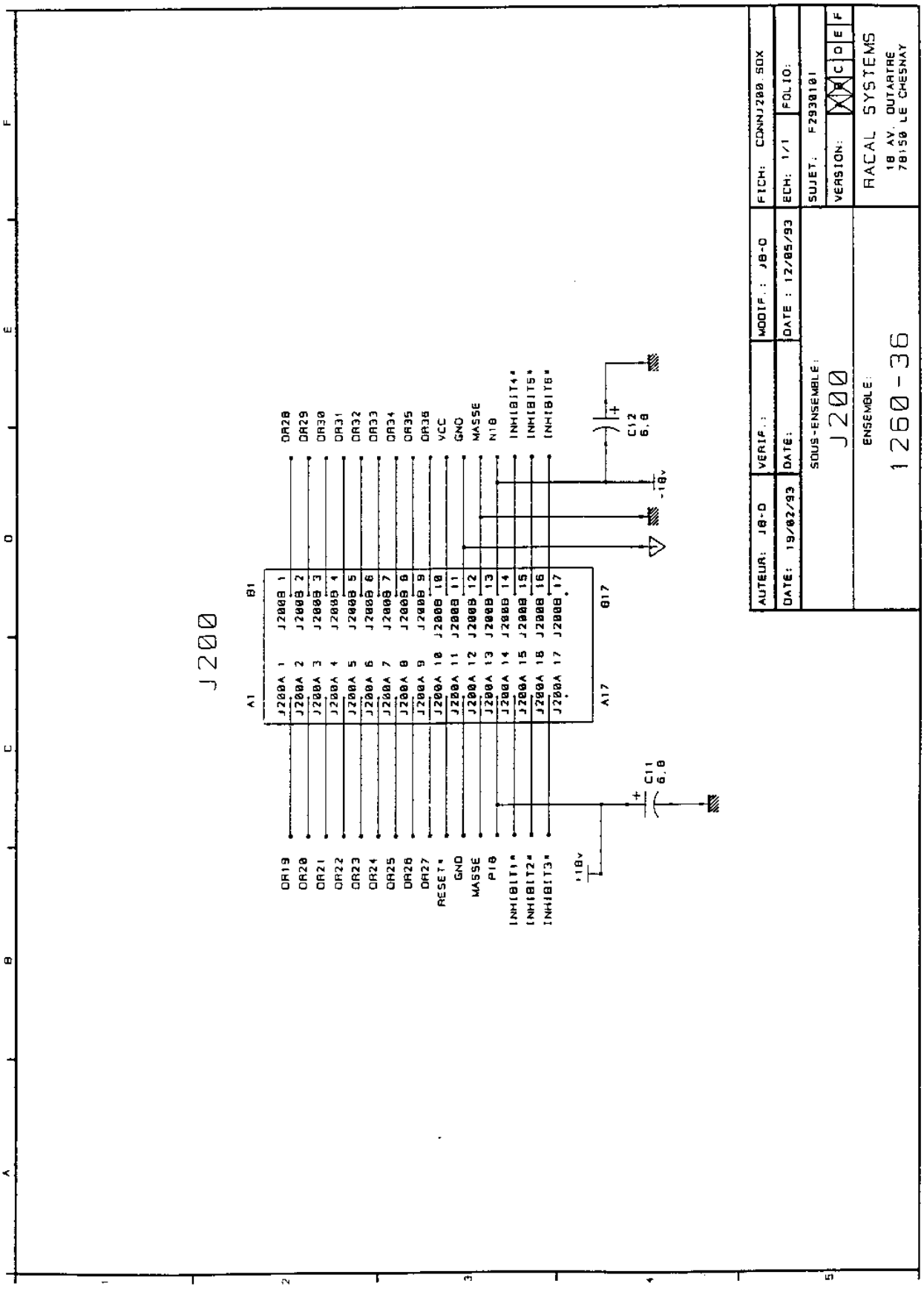
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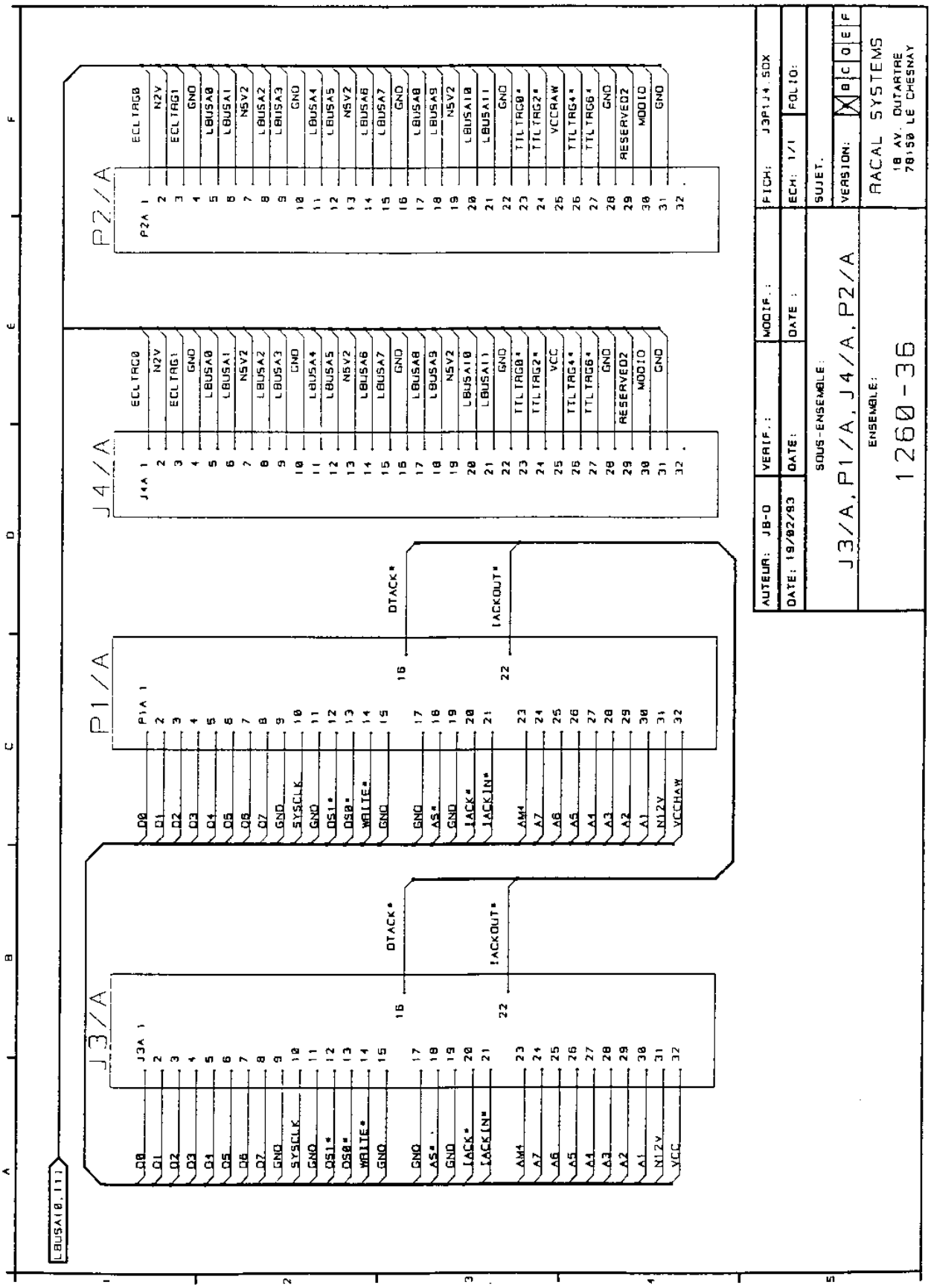
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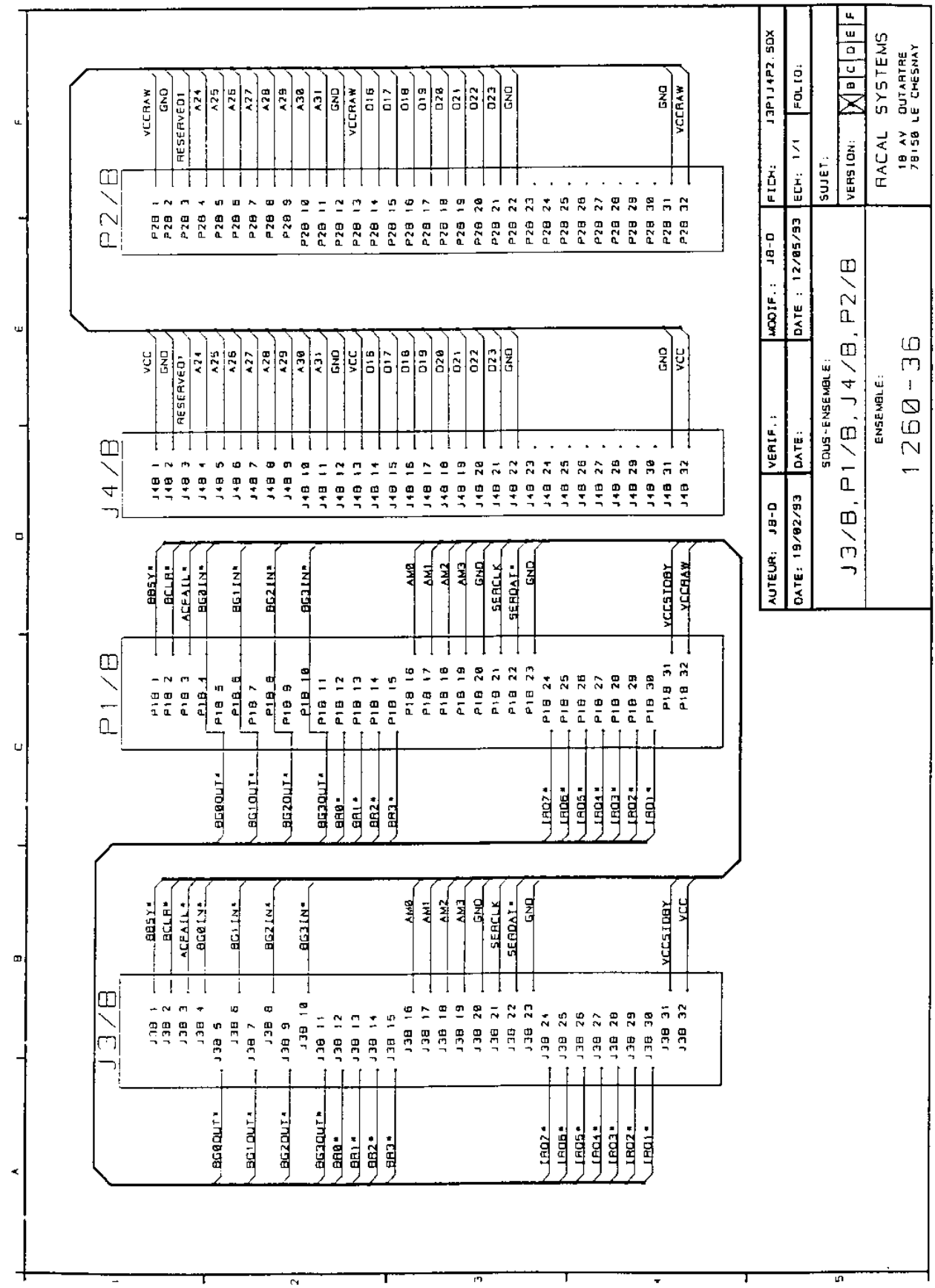
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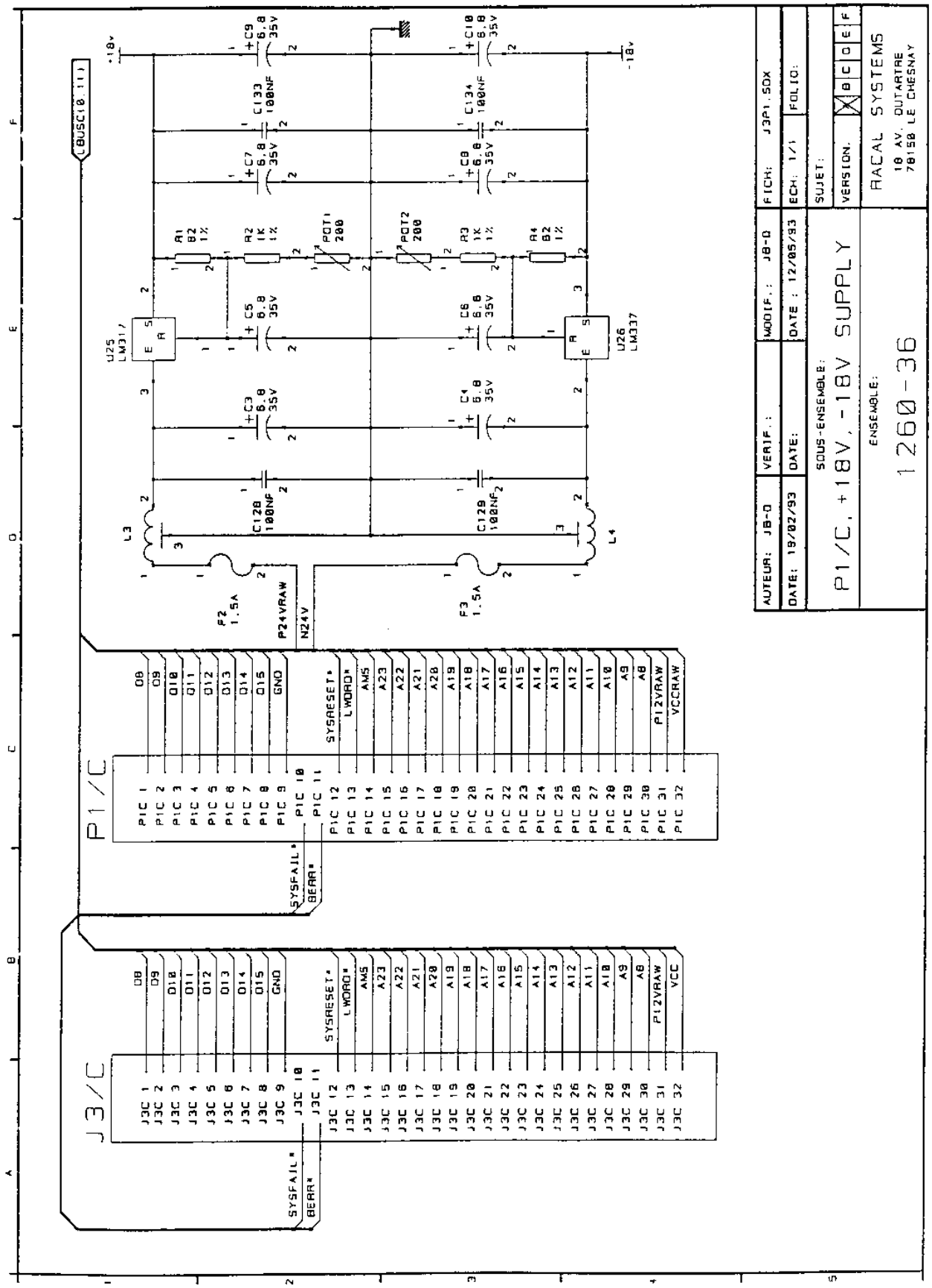
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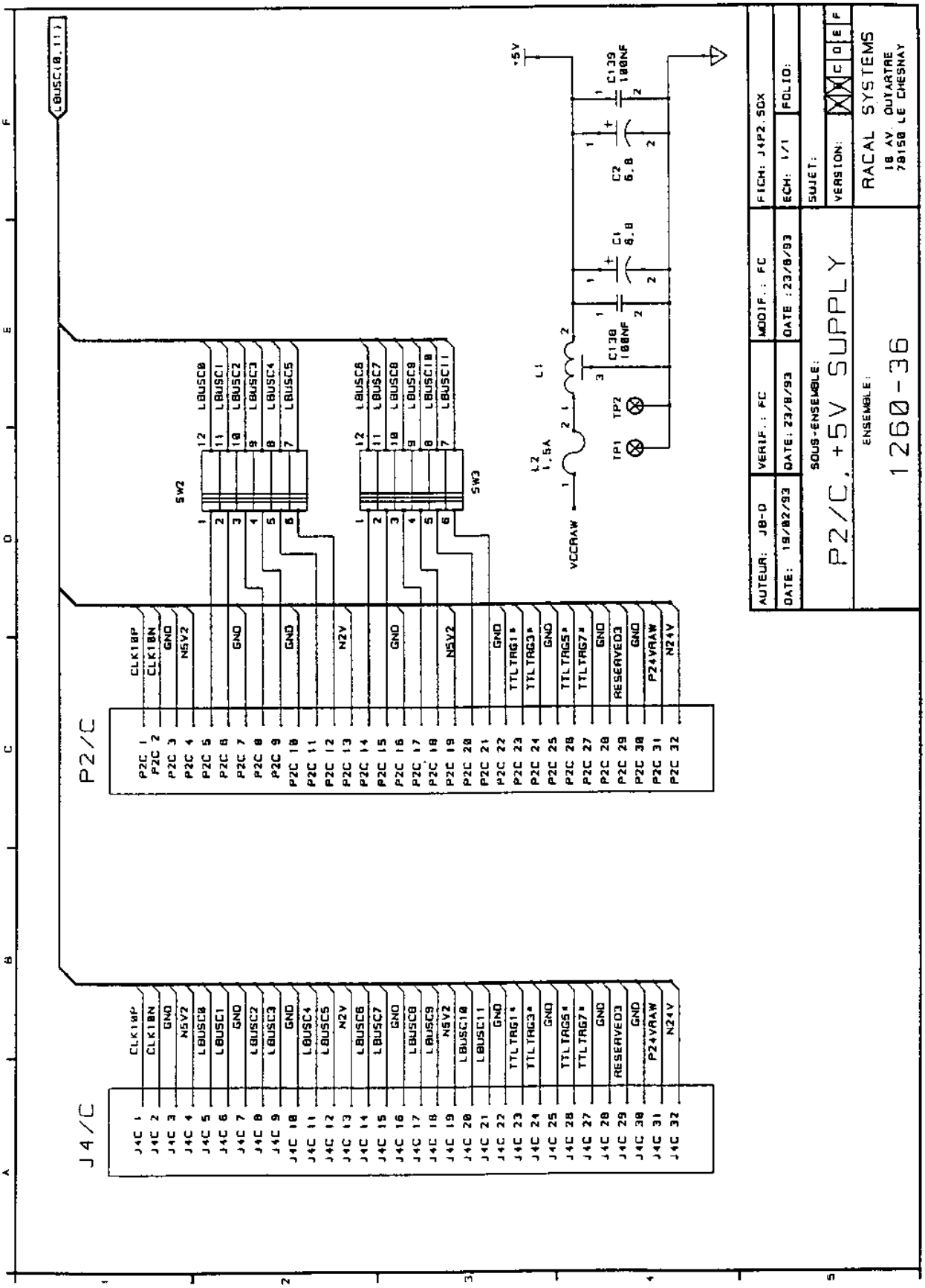
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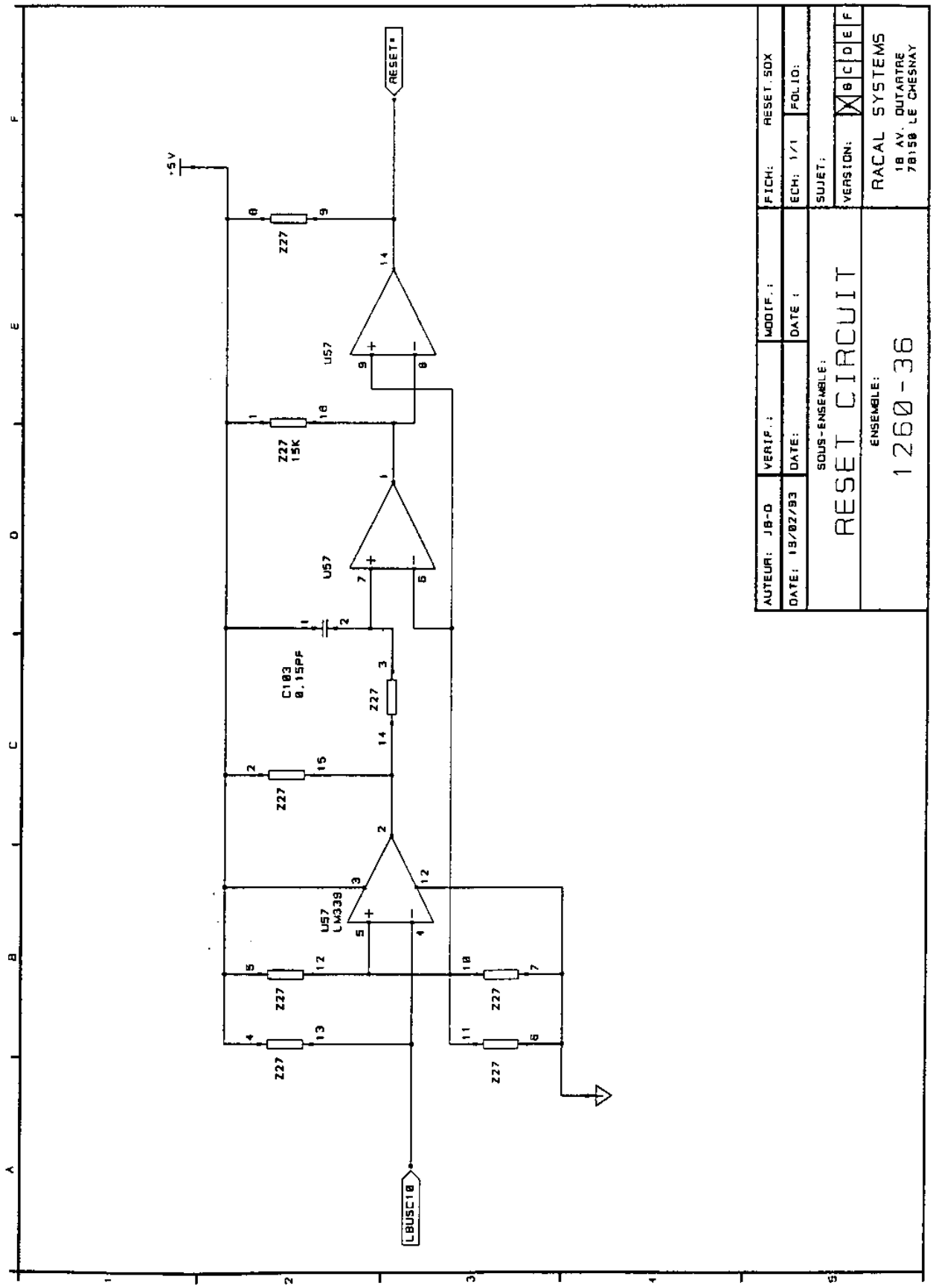
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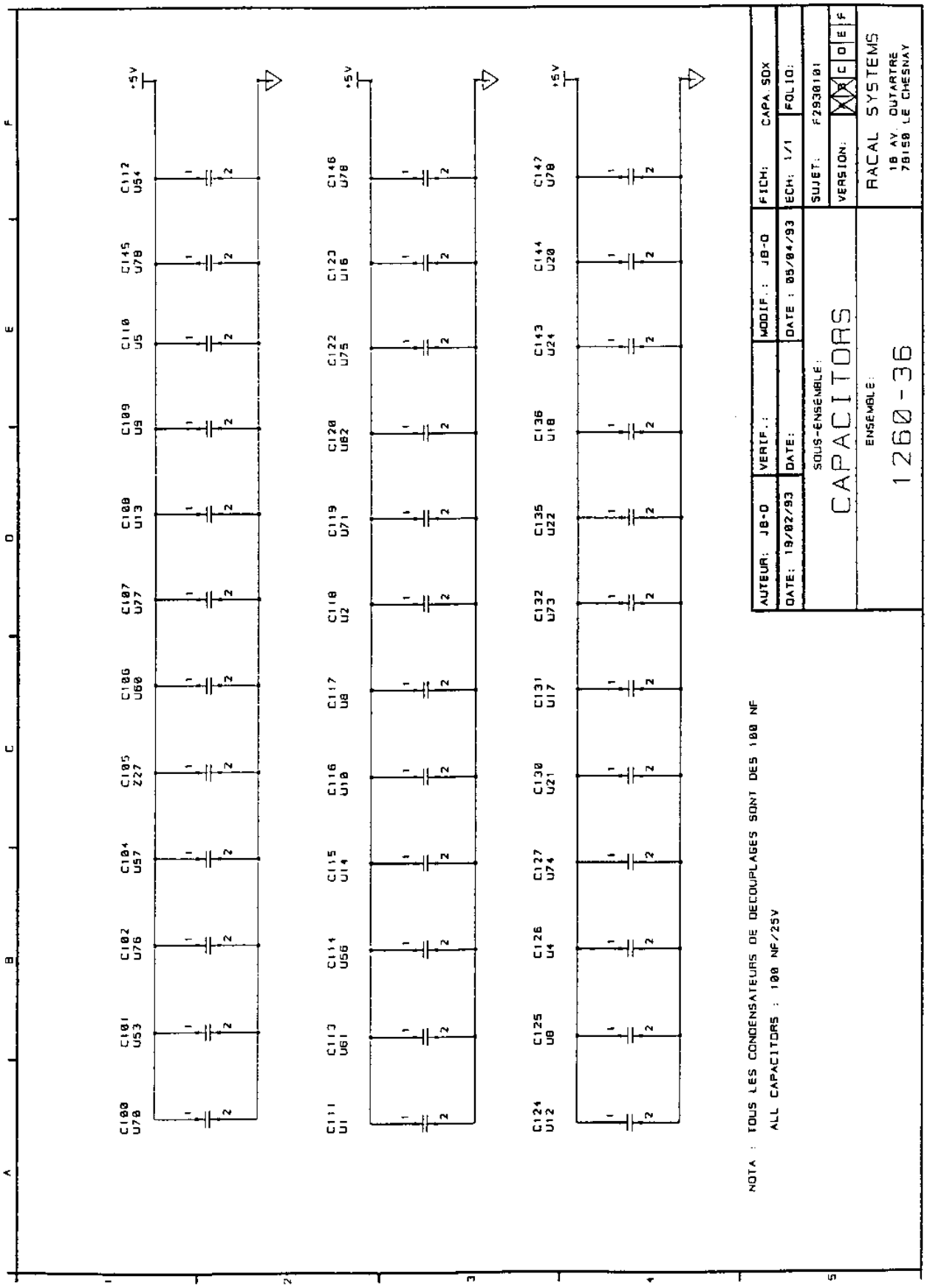
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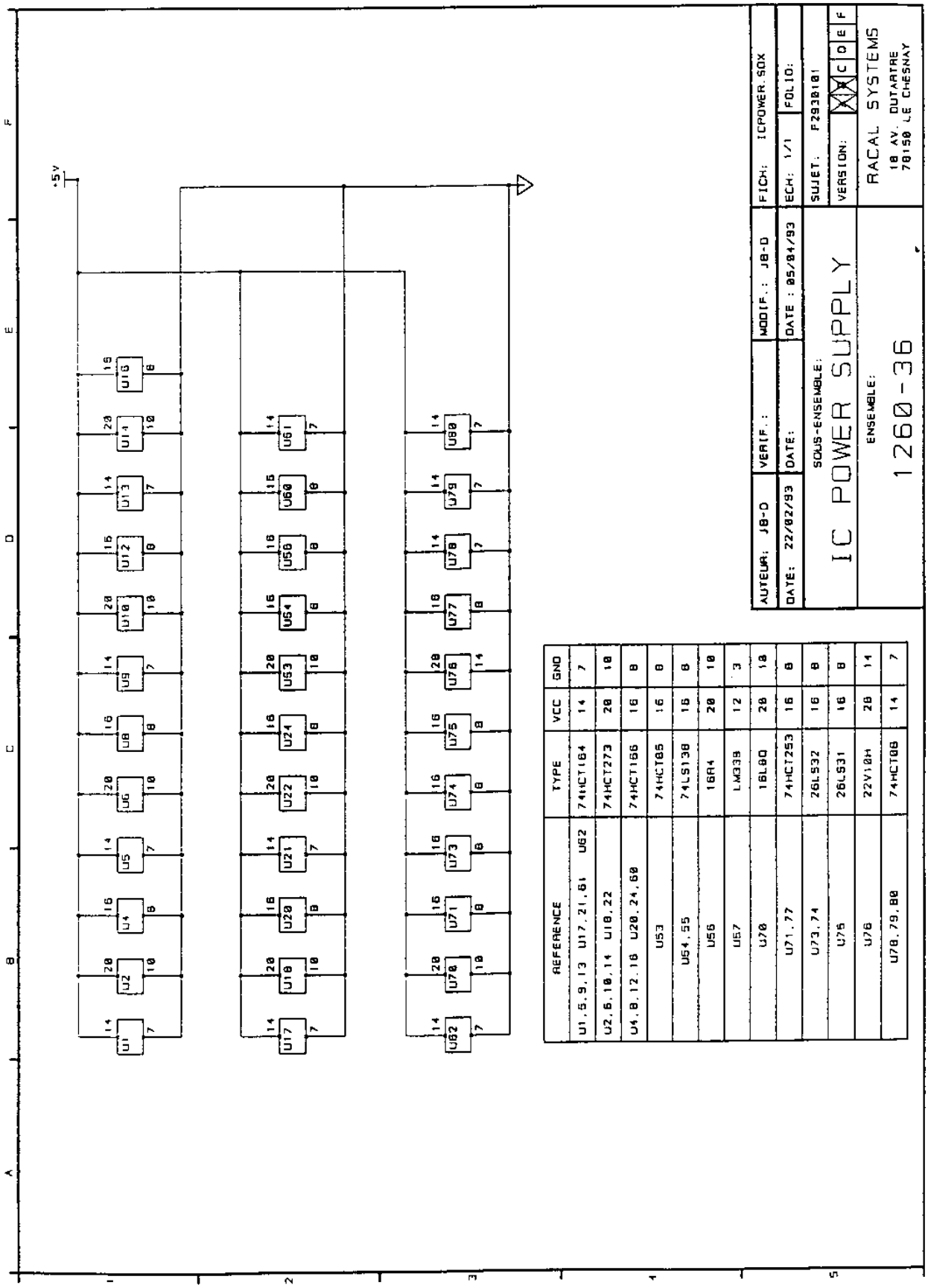
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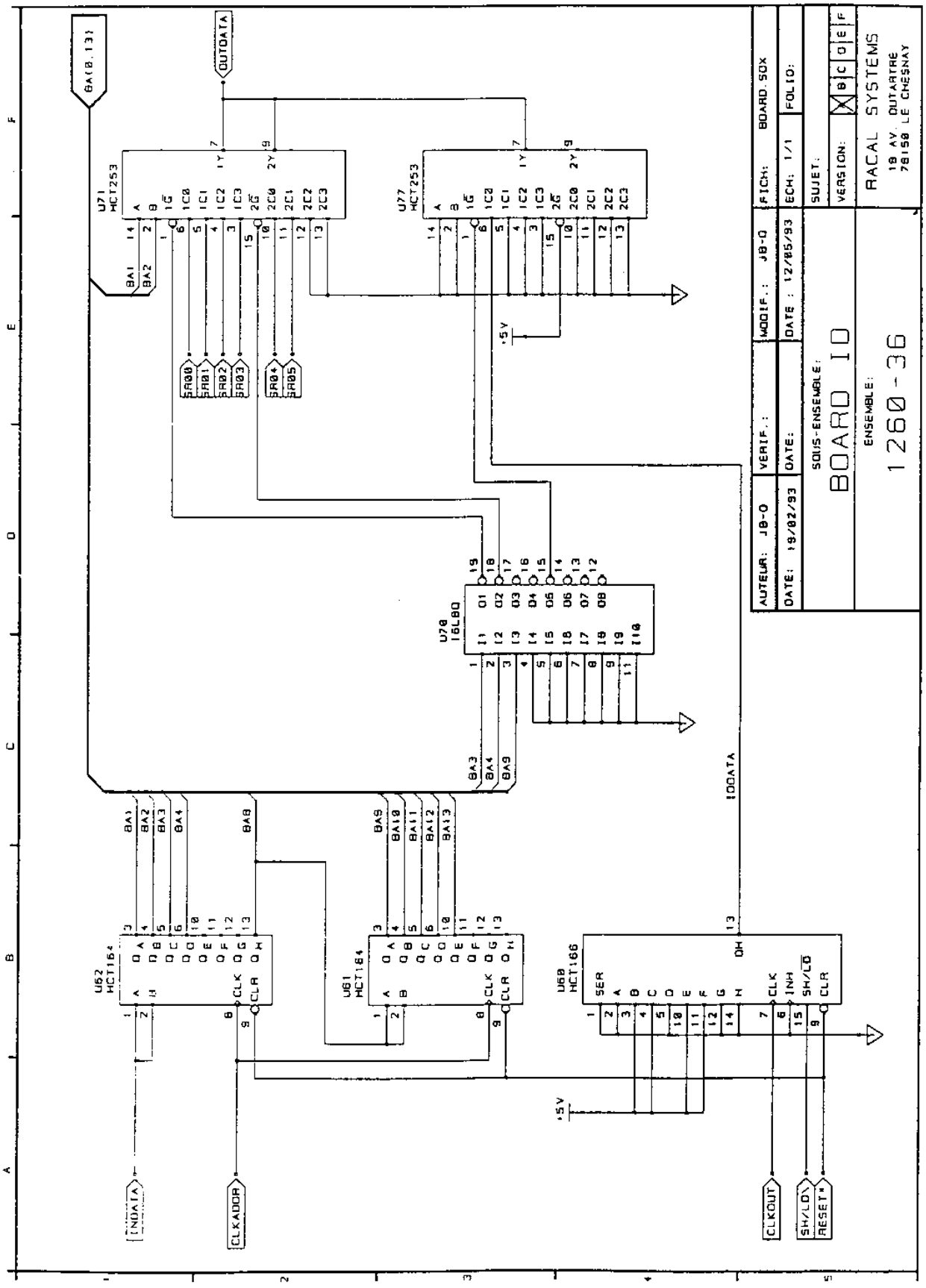


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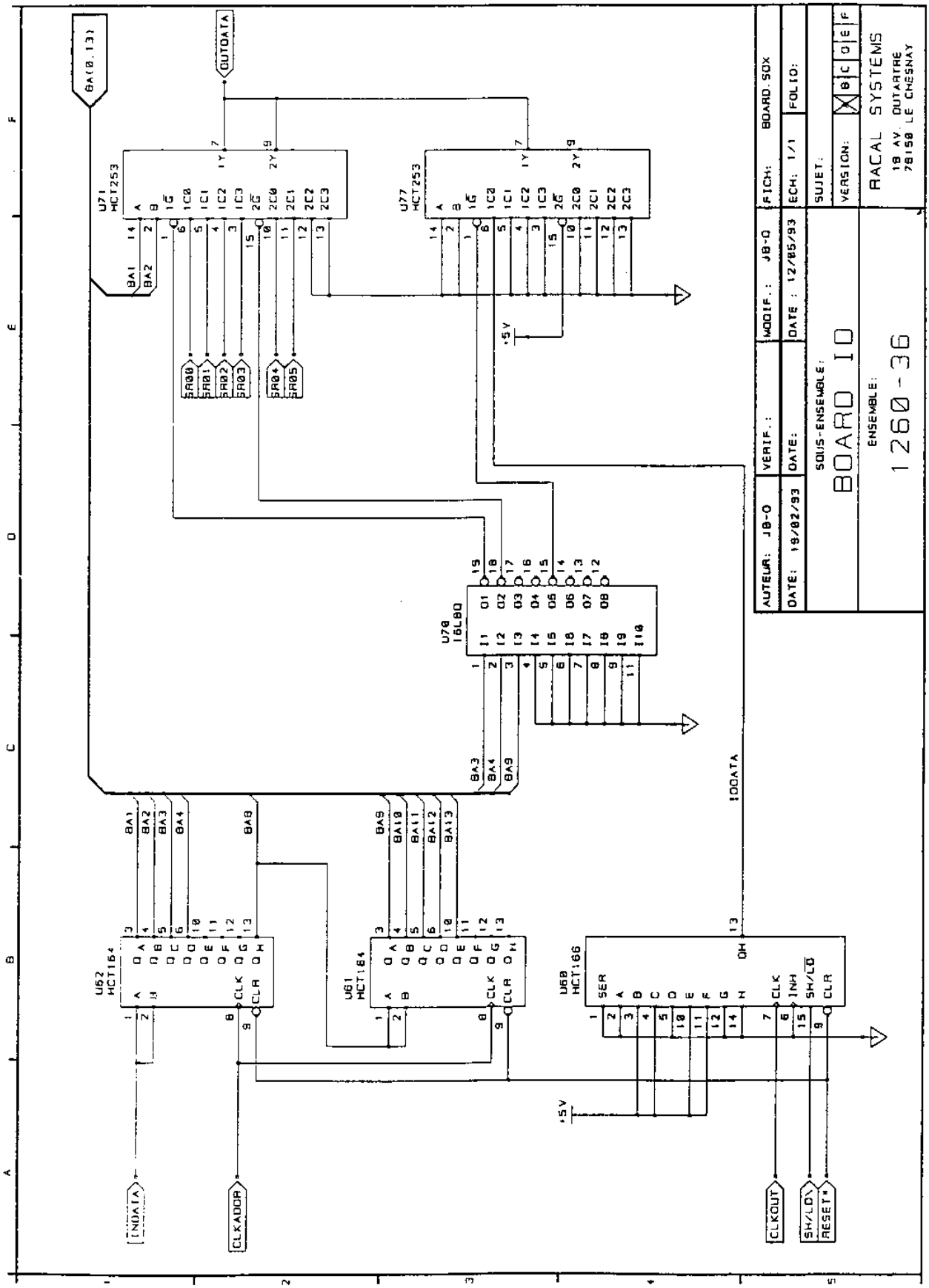


REFERENCE	TYPE	VCC	GND
U1,5,9,13 U17,21,61 U62	74HCT164	14	7
U2,6,10,14 U18,22	74HCT273	20	10
U4,8,12,16 U20,24,60	74HCT166	16	8
U53	74HCT85	16	8
U54,55	74LS138	16	8
U56	16R4	20	10
U57	LM339	12	3
U70	16L80	20	10
U71,77	74HCT253	16	8
U73,74	26LS32	16	8
U75	26LS31	16	8
U76	22V10H	28	14
U78,79,80	74HCT08	14	7

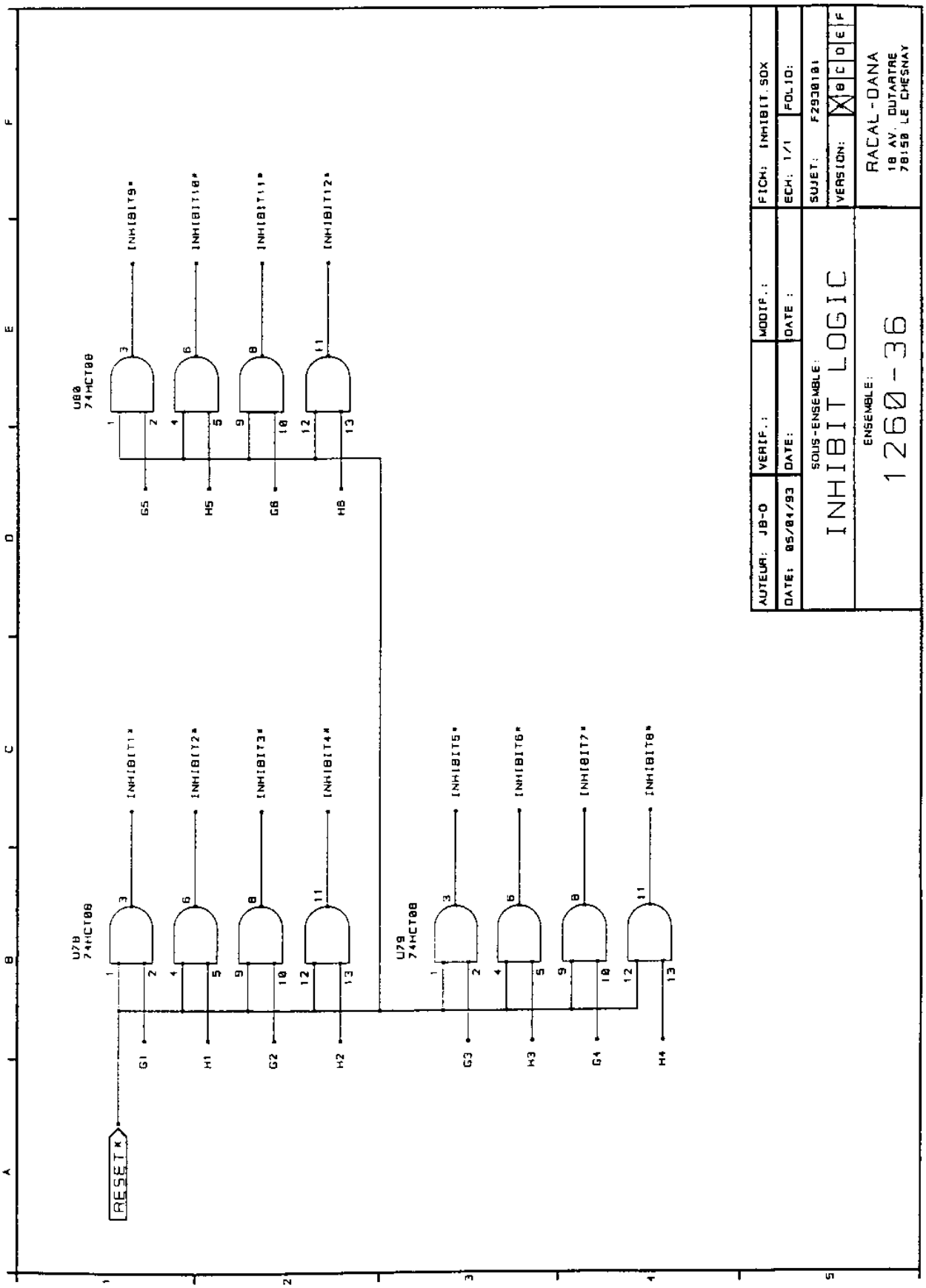
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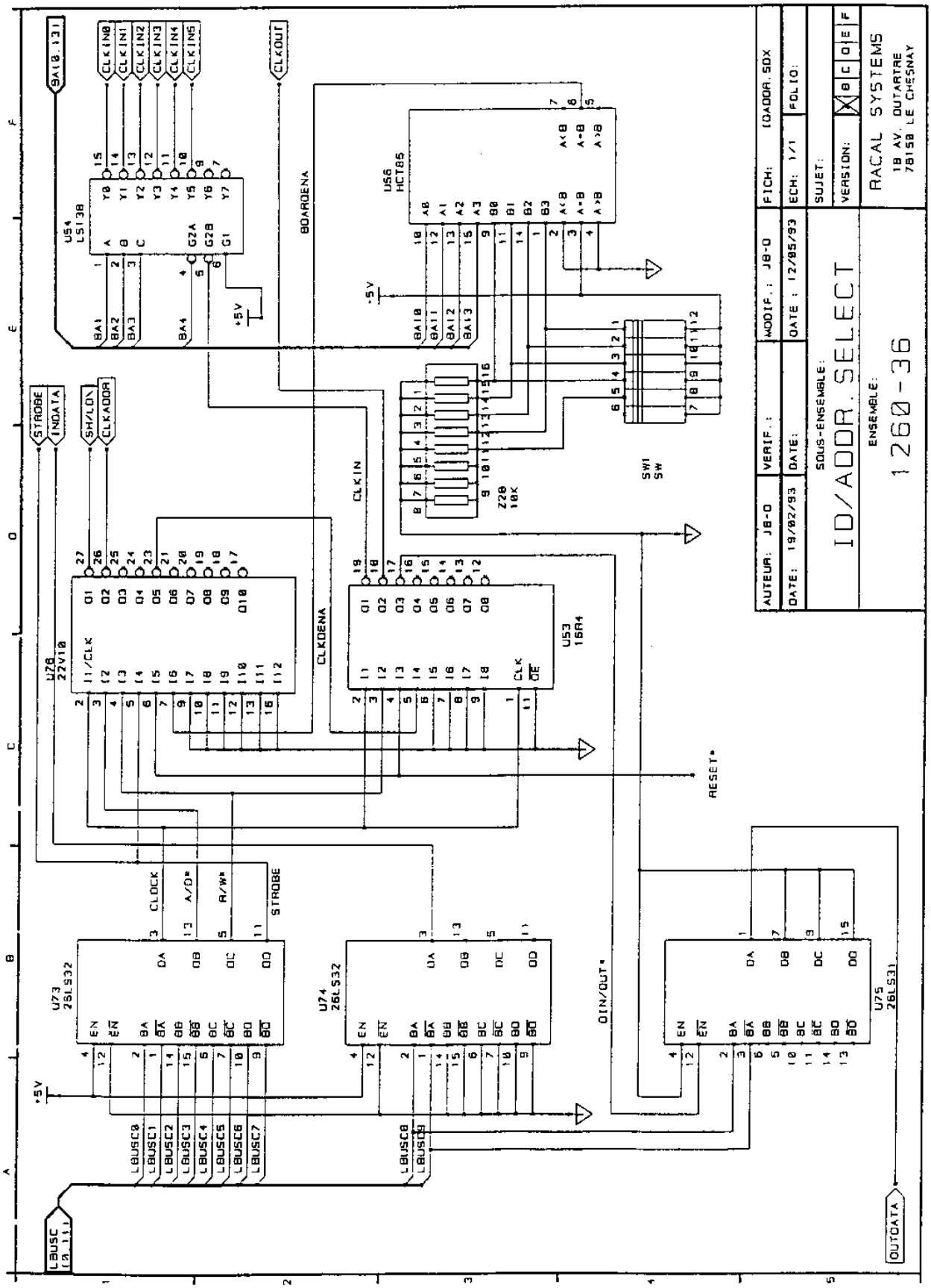
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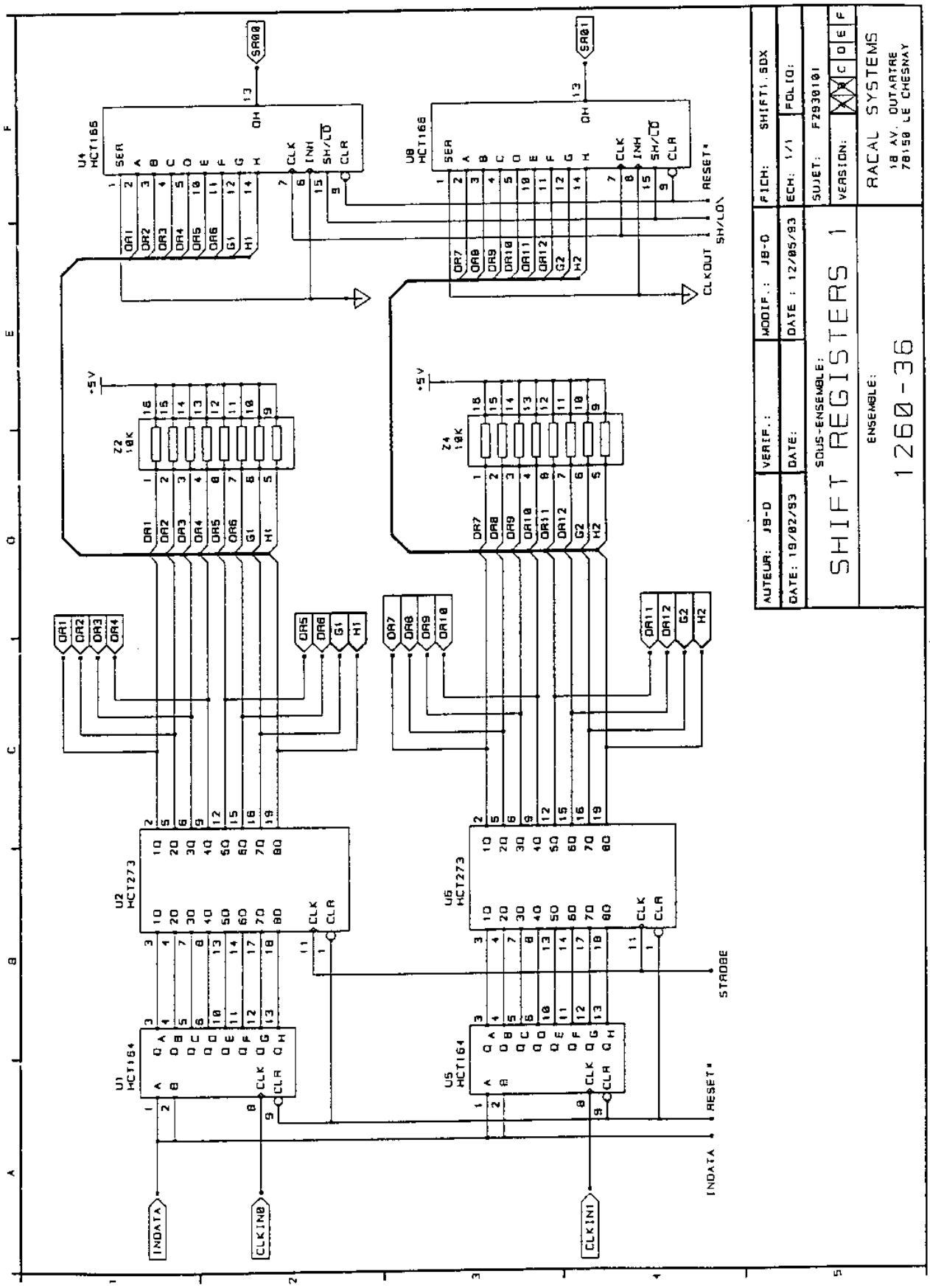
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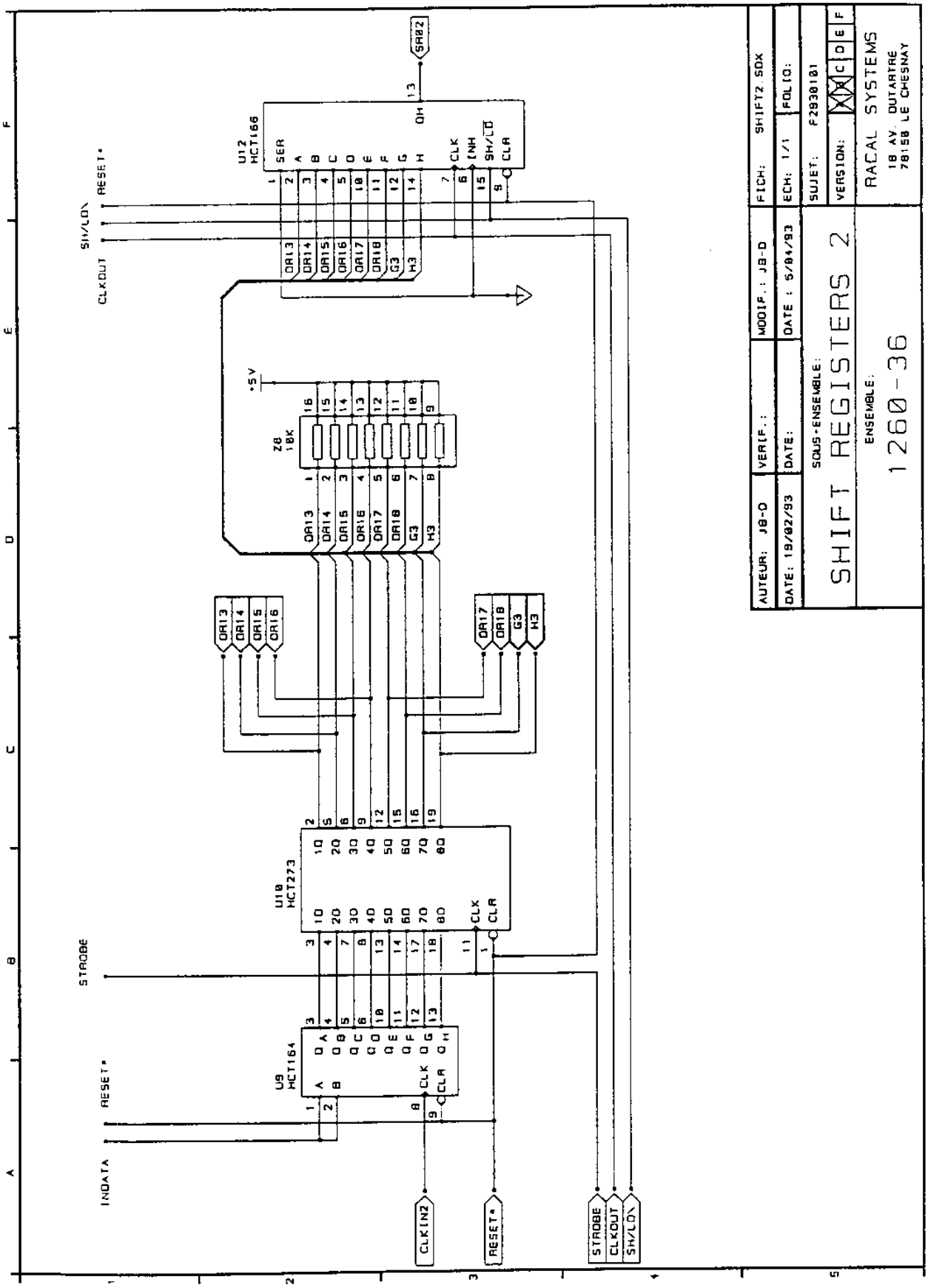
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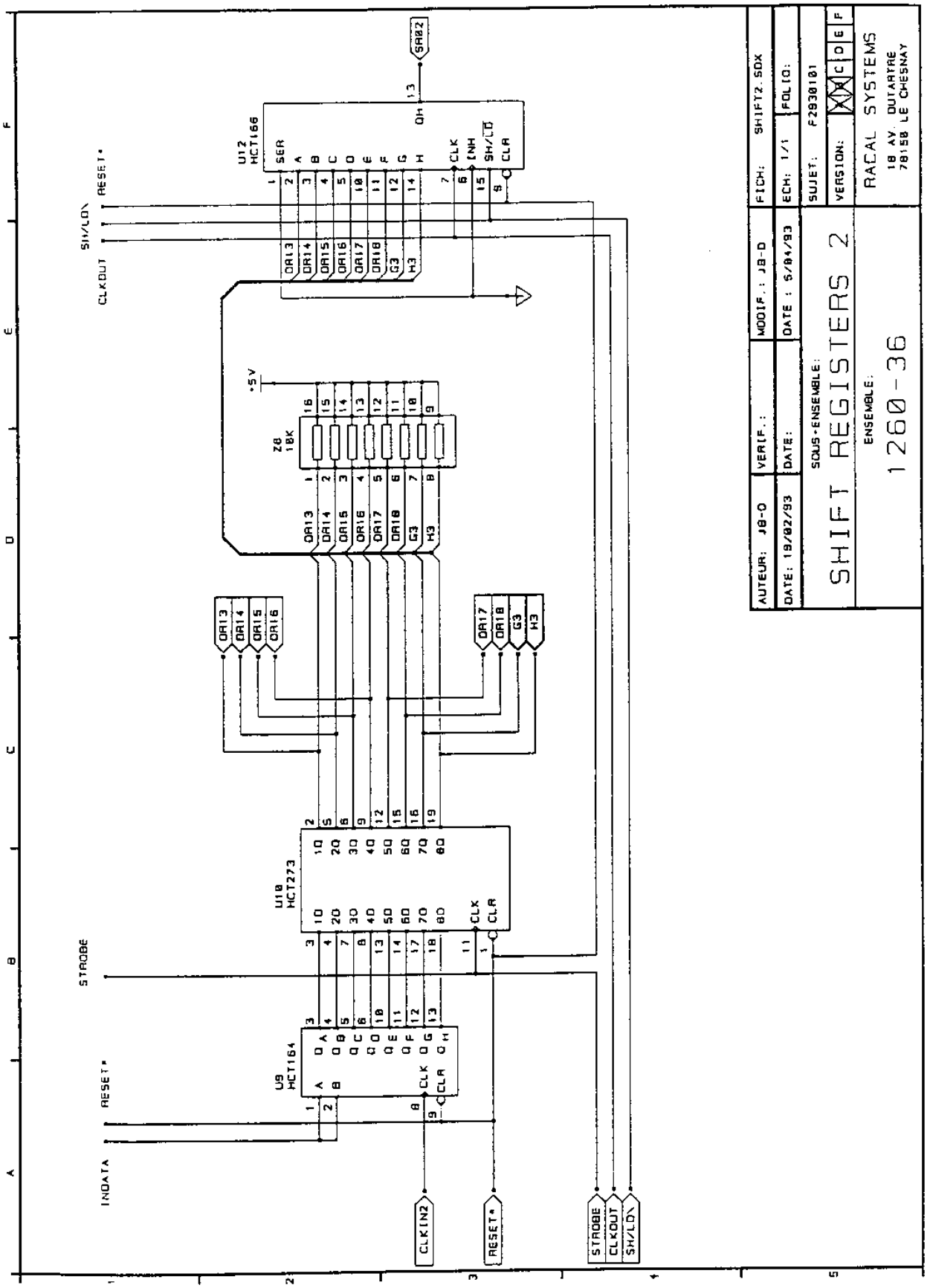
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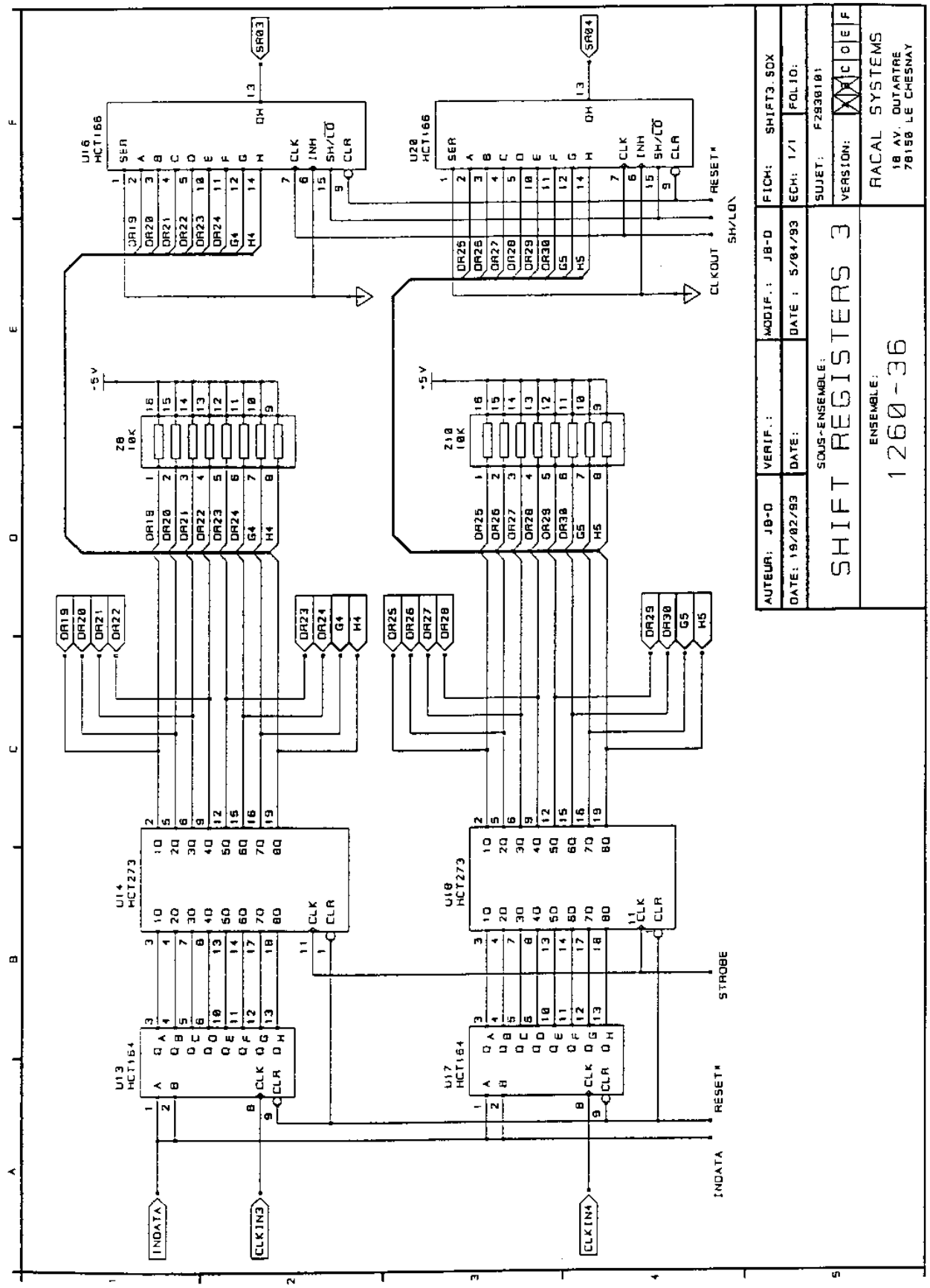
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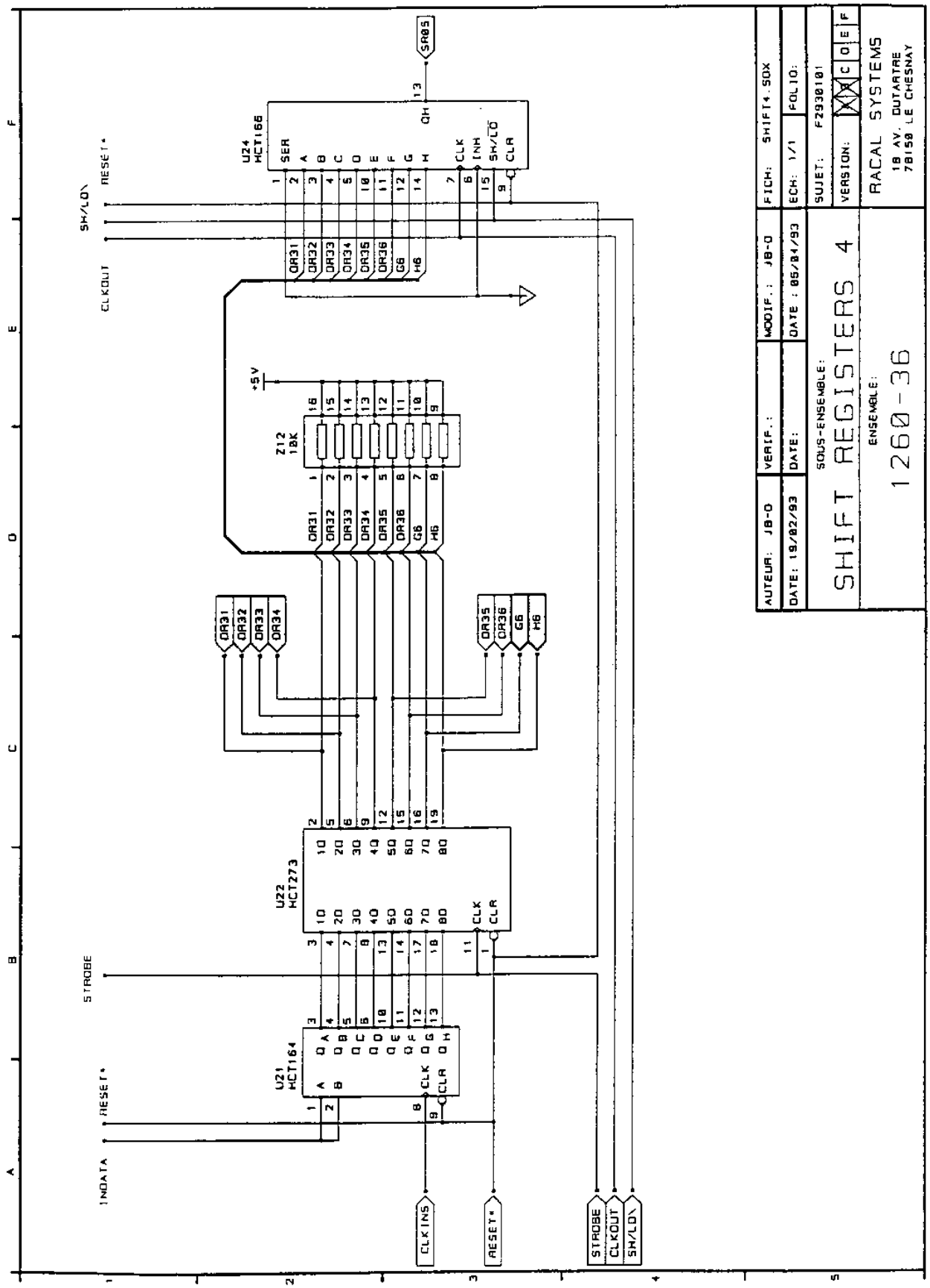
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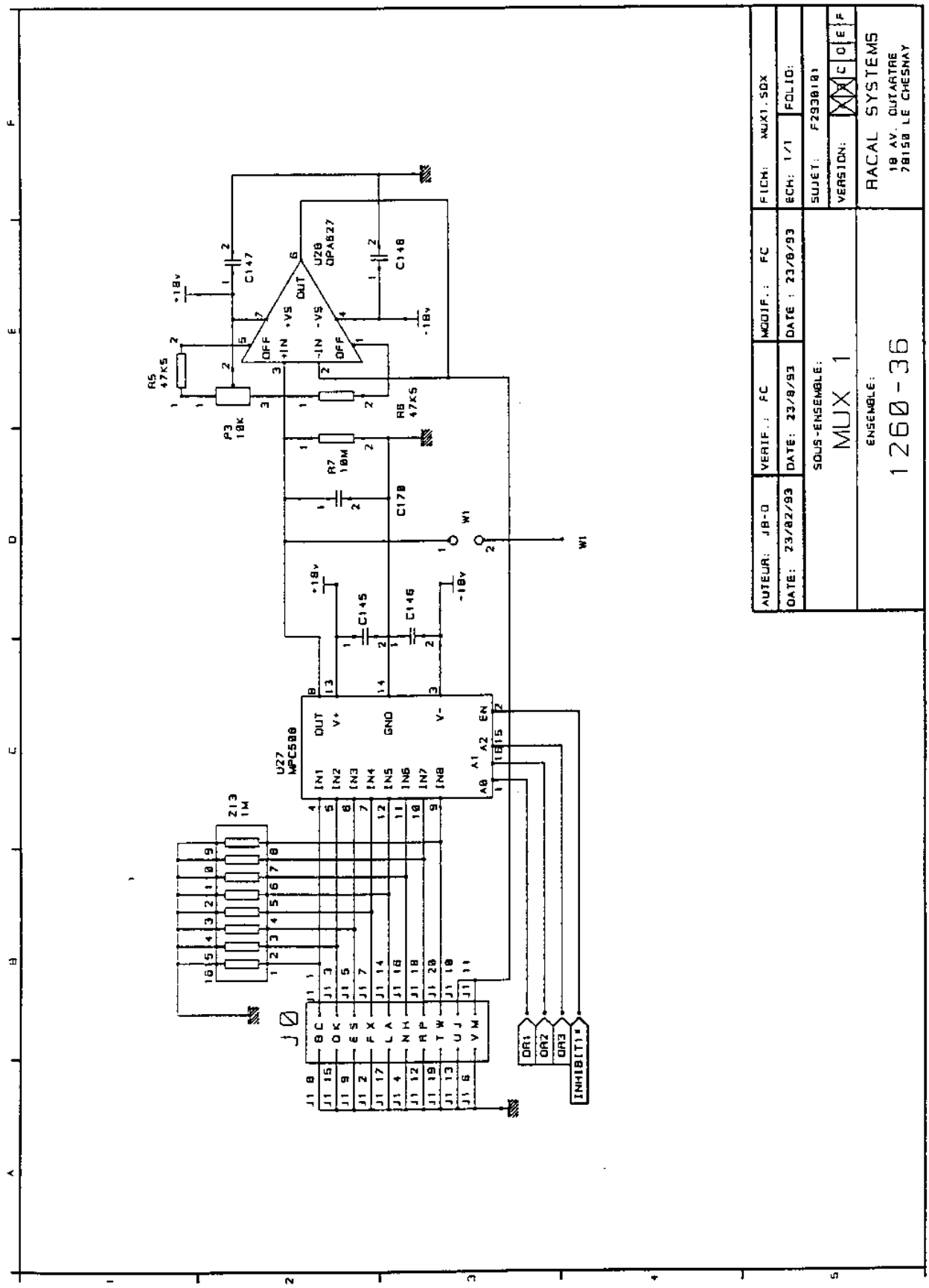
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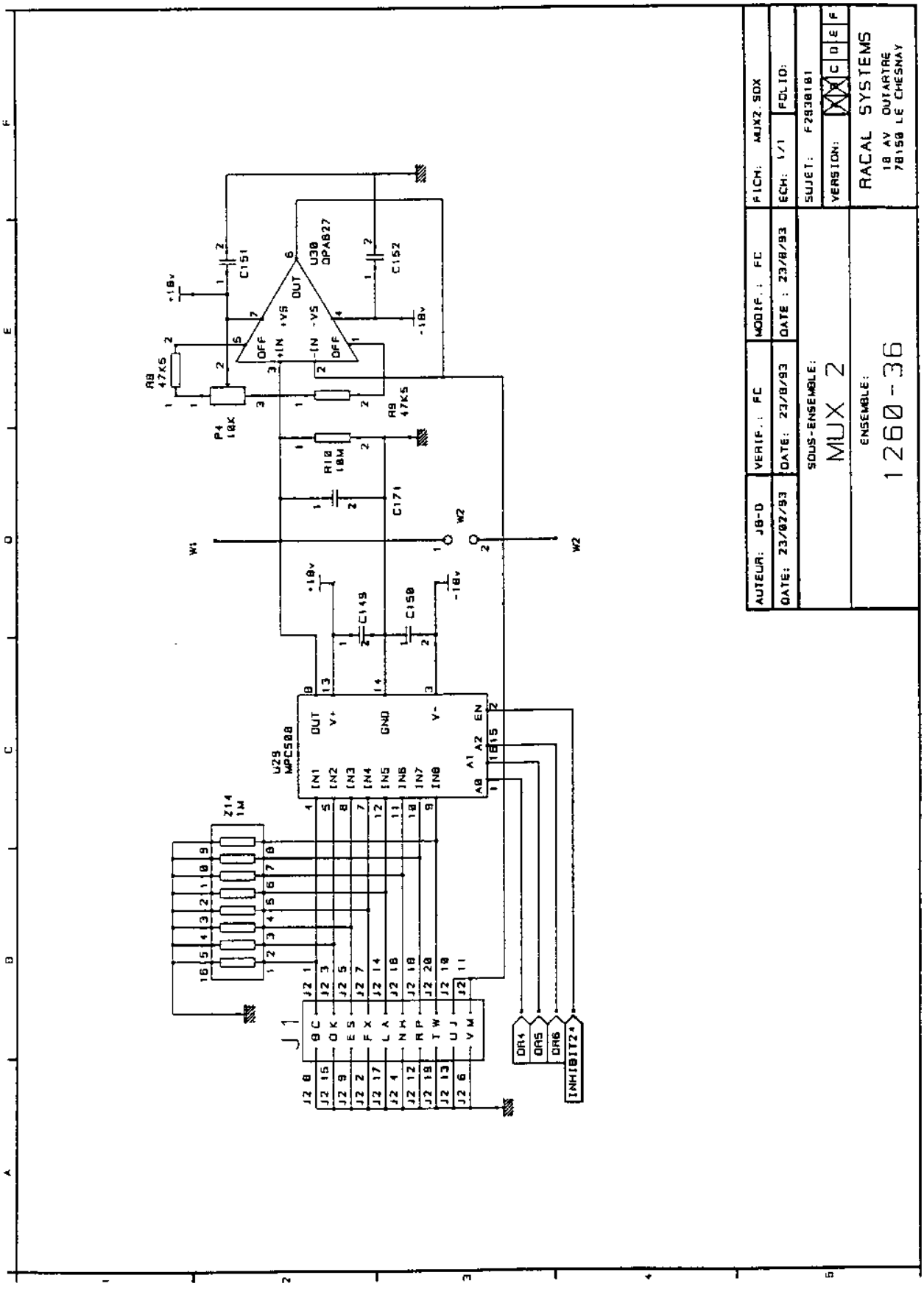
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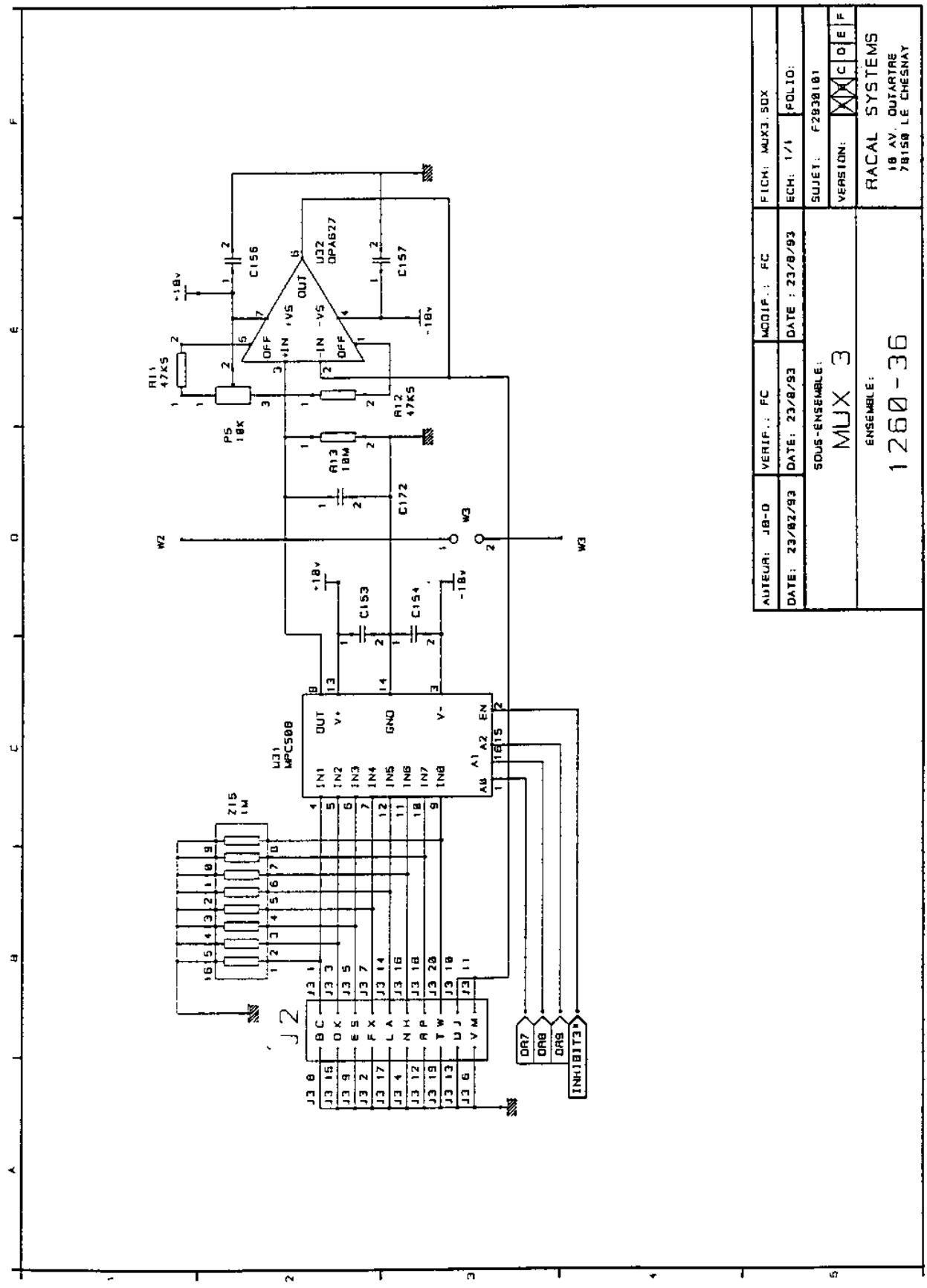
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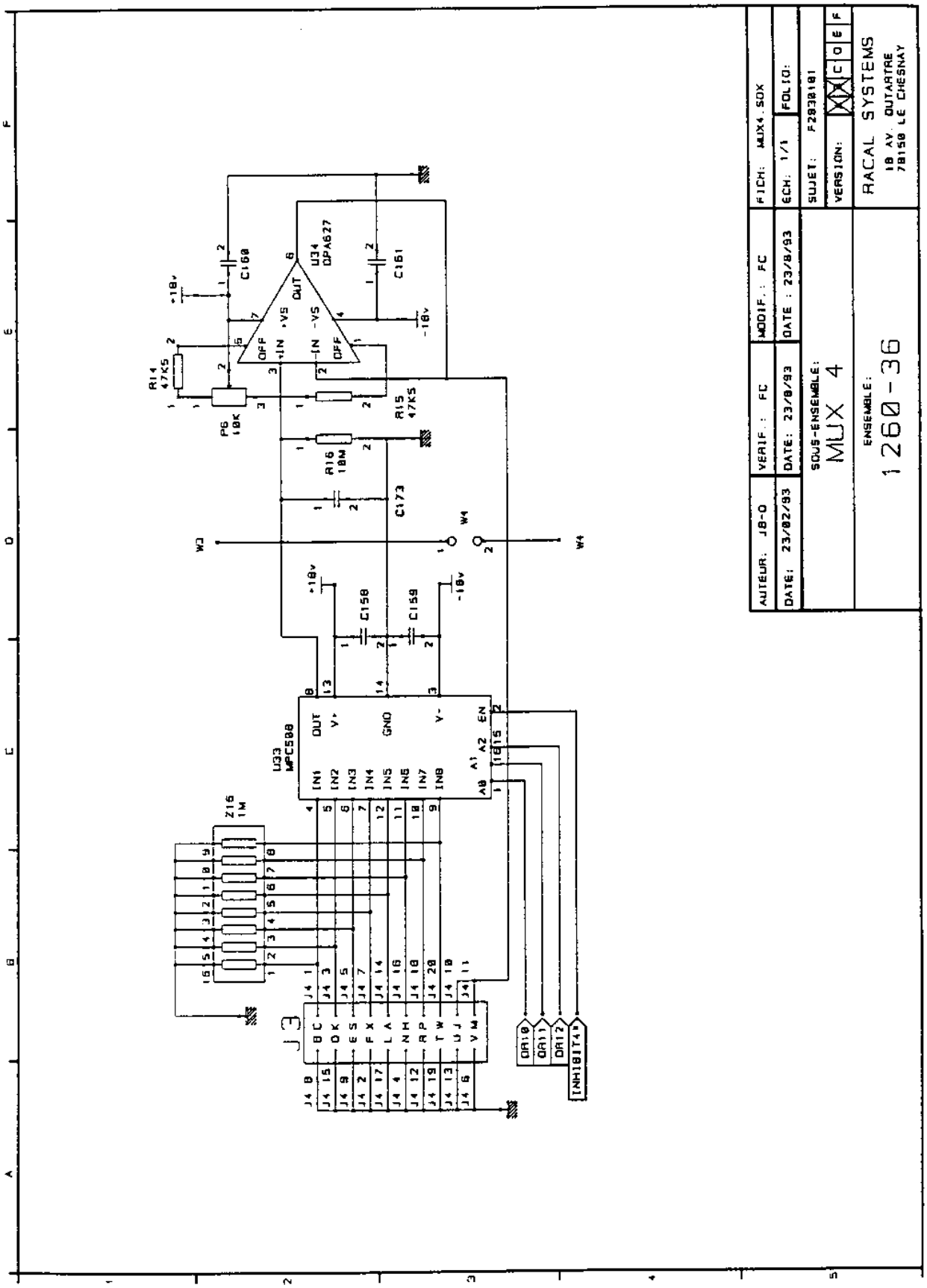
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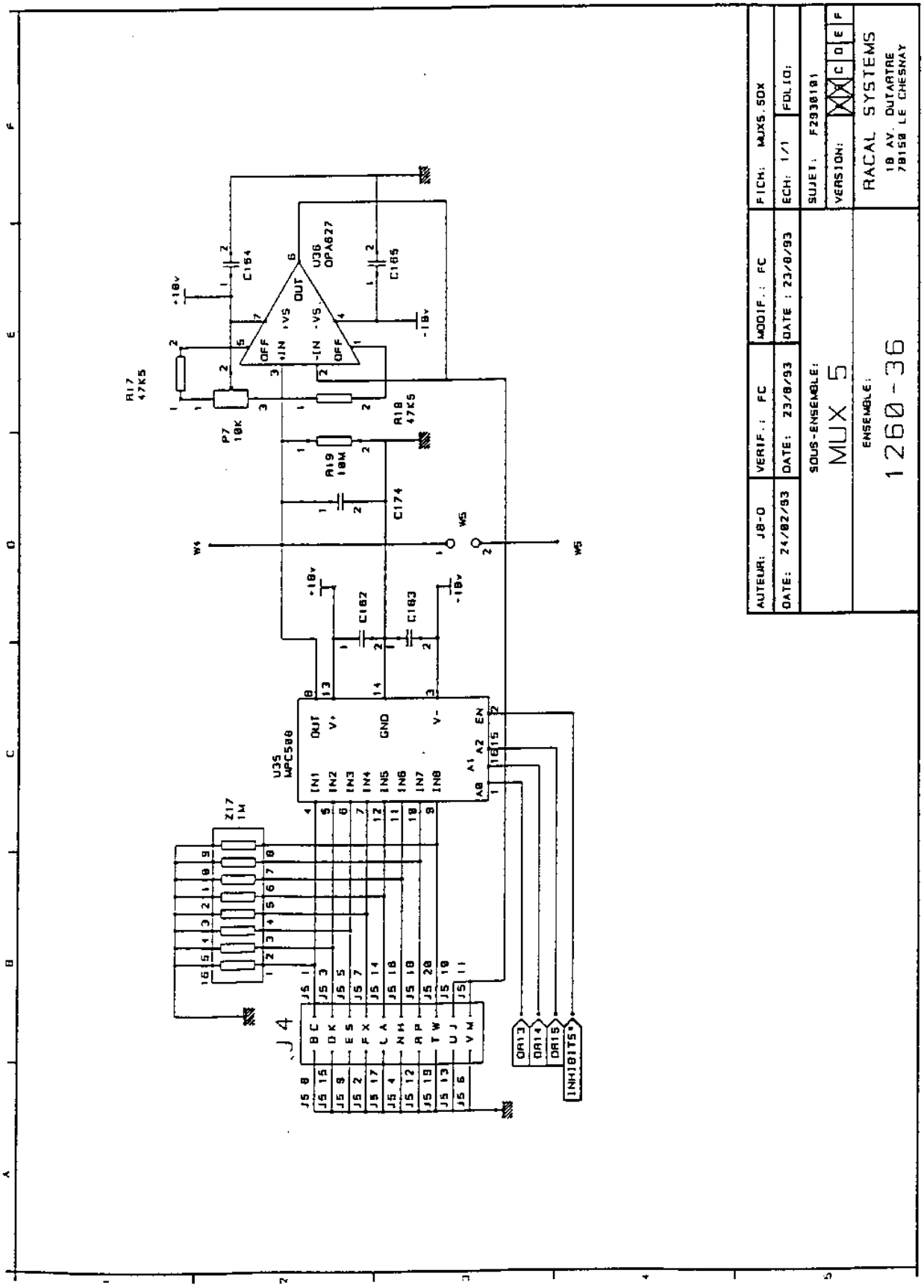
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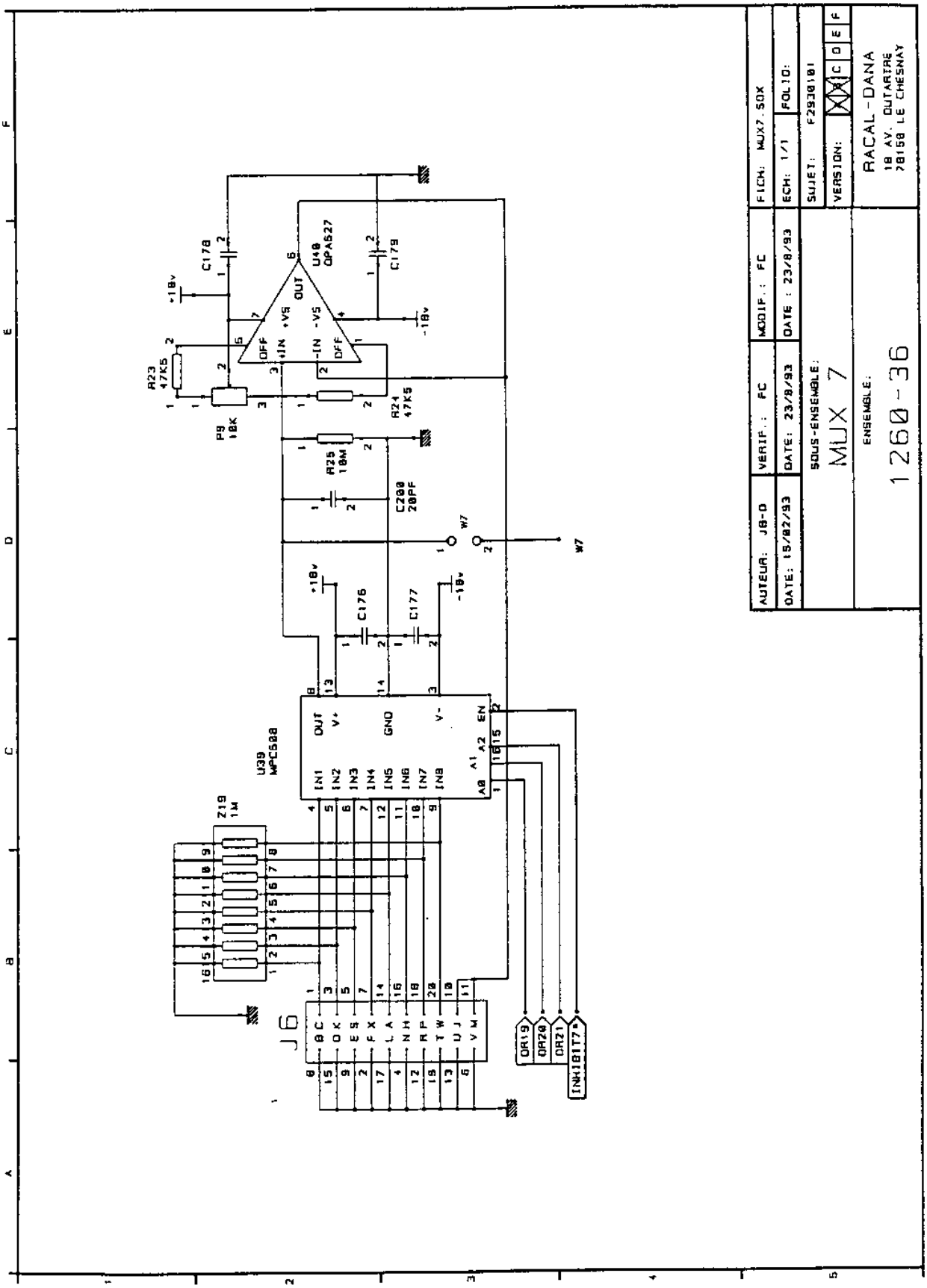
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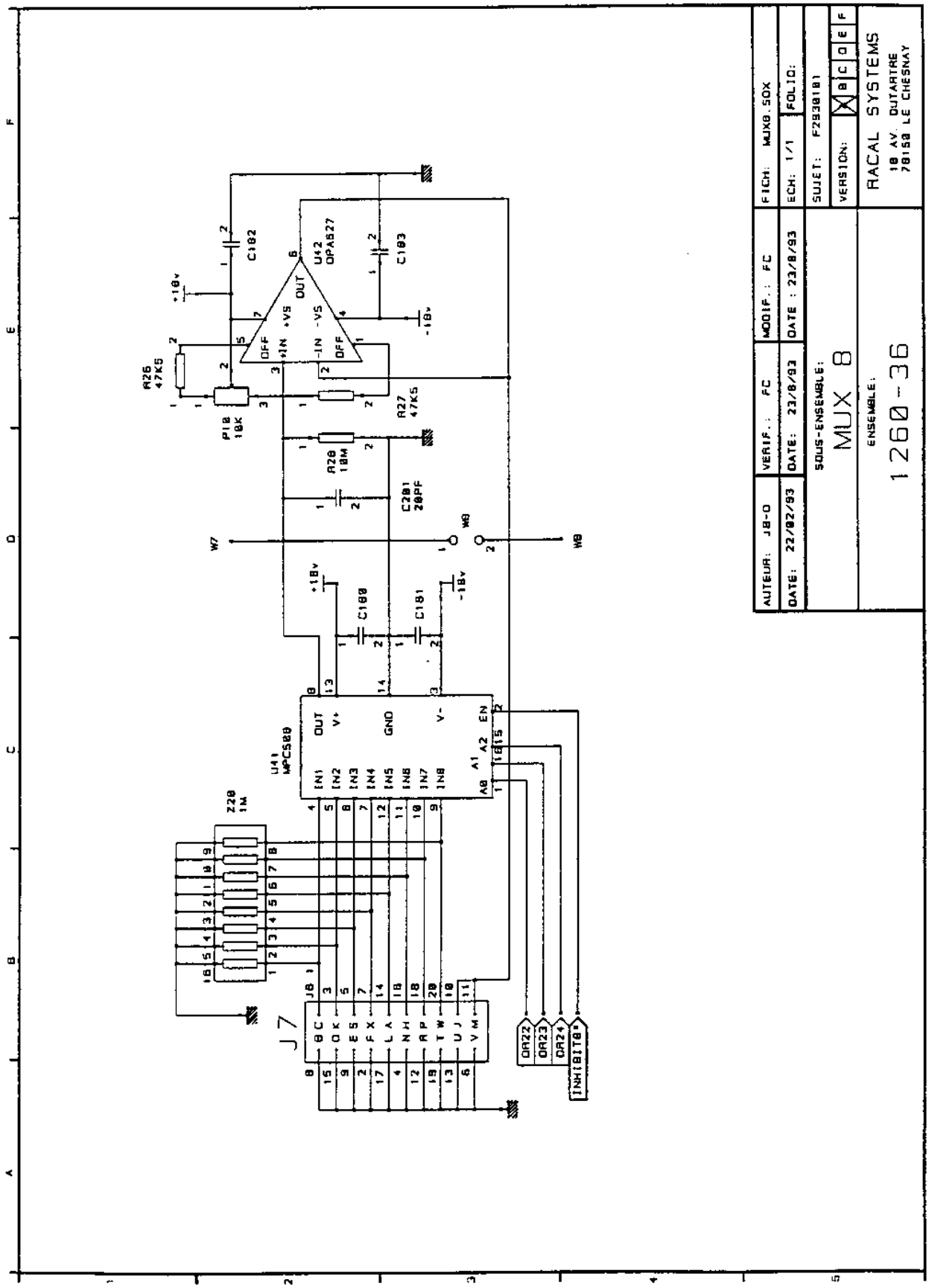
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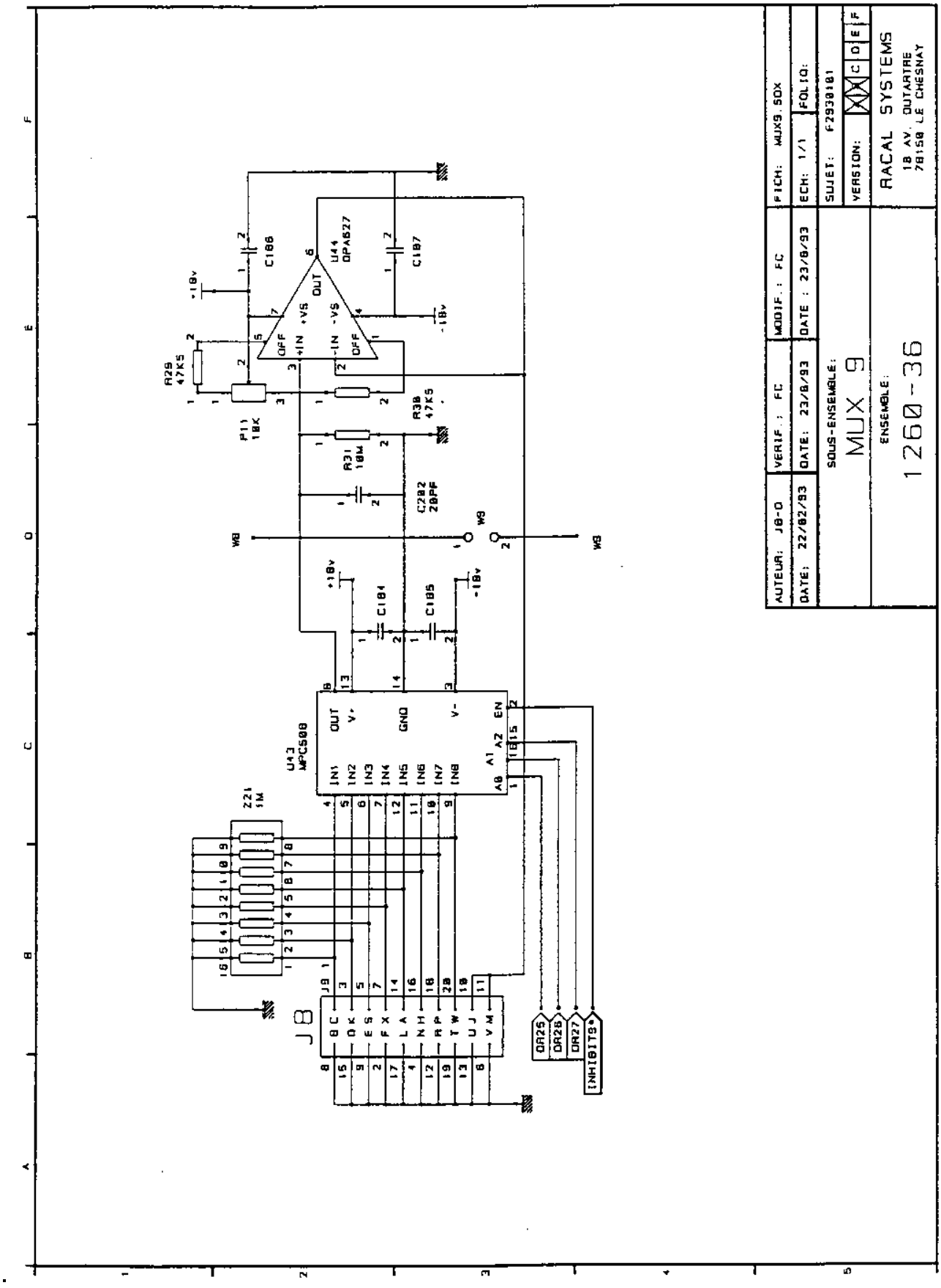
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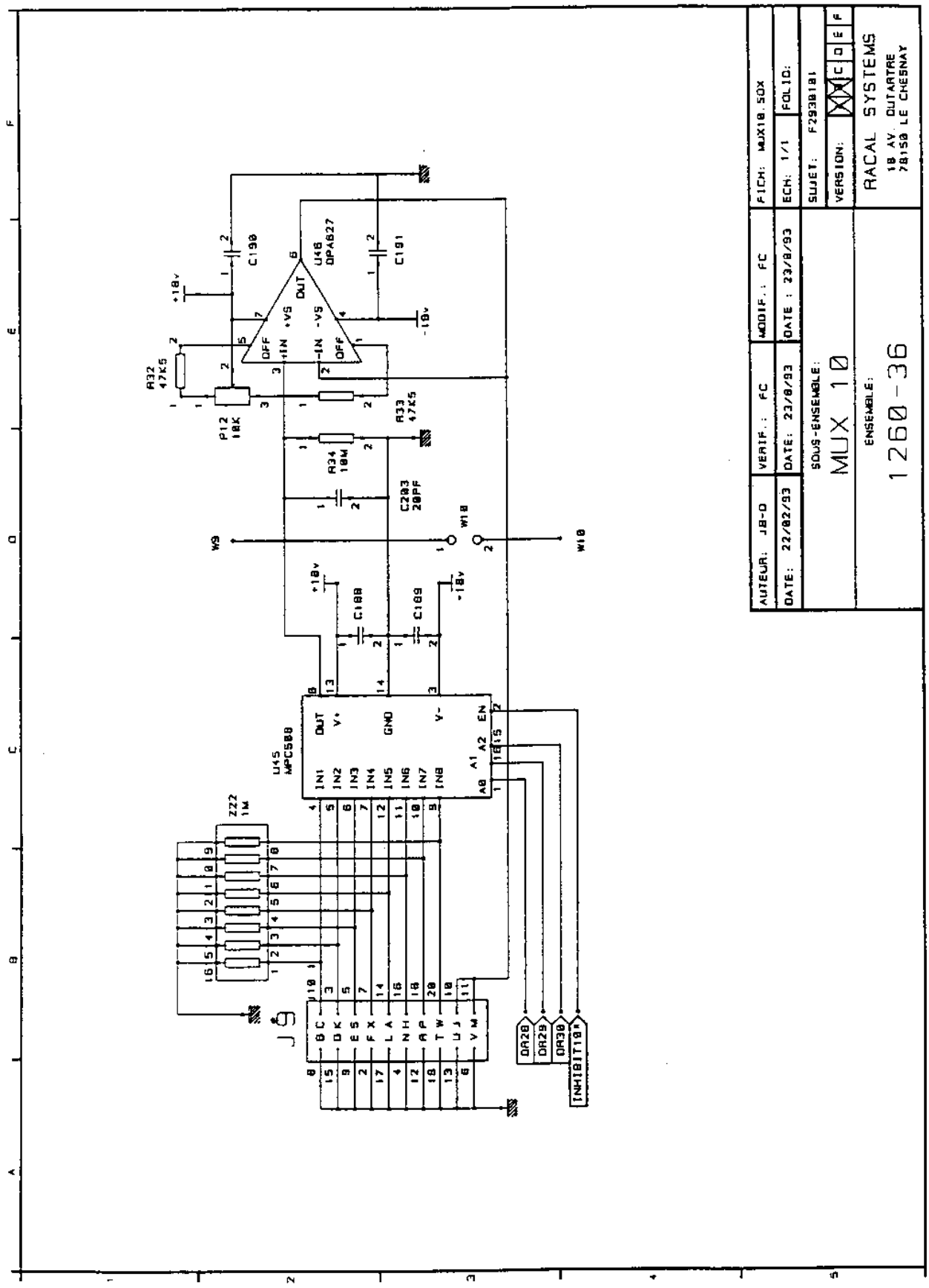
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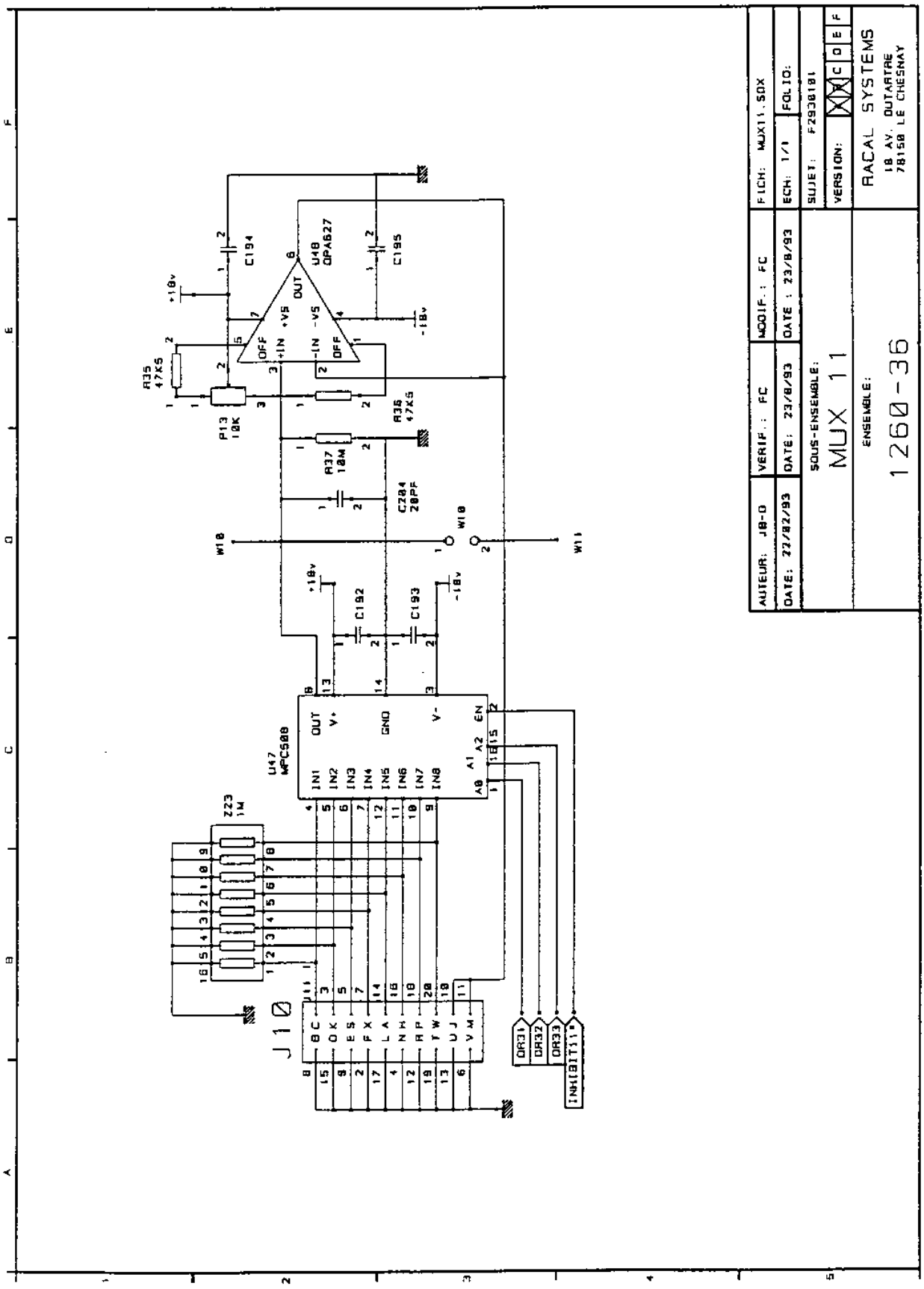
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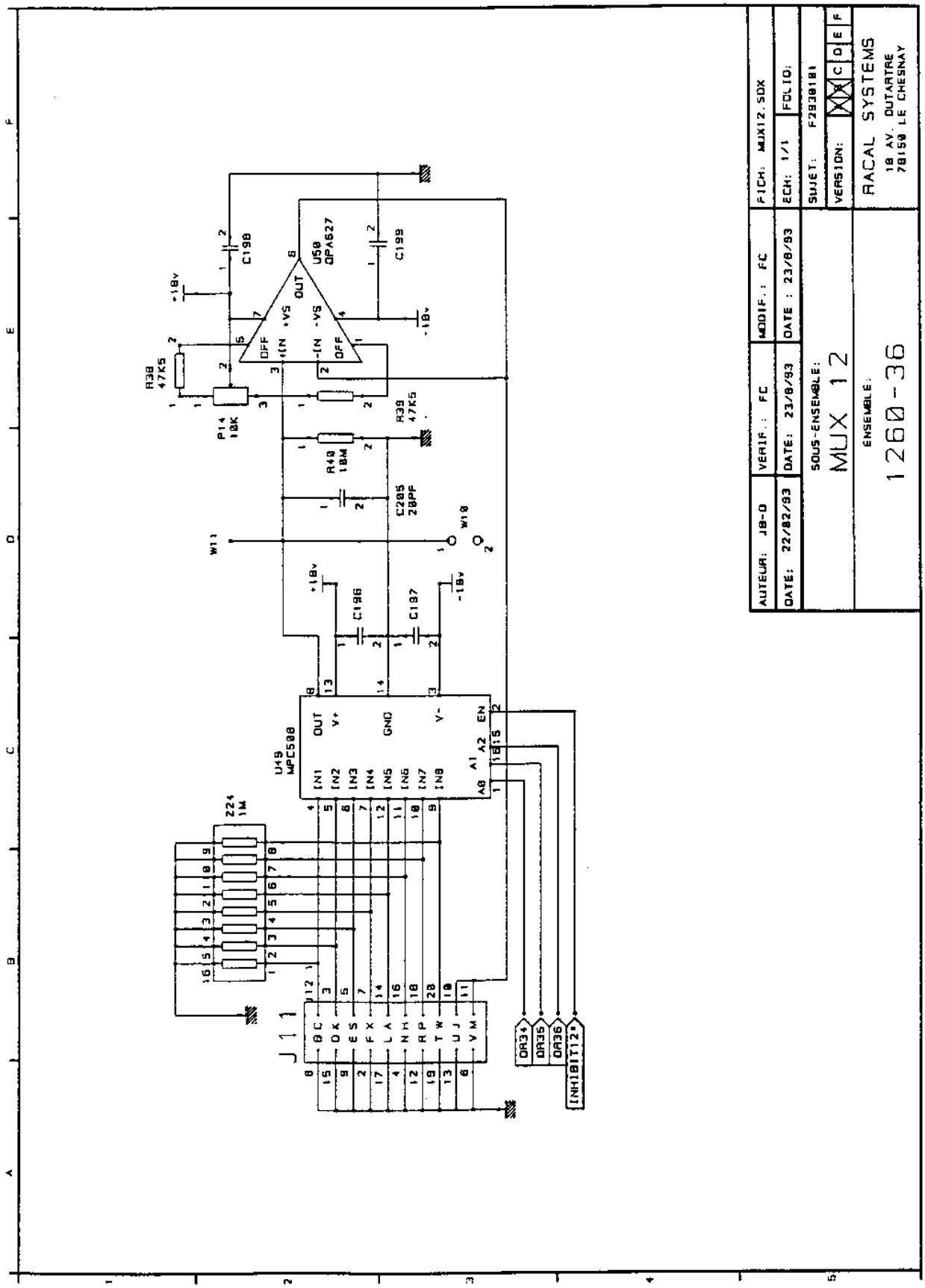
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Chapter 5
PARTS LIST

FS930194 Final Assembly, 1260-36 5-3

FS930100 Shipping Kit, 1260-36 5-3

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PARTS LIST 1260-36

FS930104 FINAL ASSY., 1260-36

REF. DESIGN	RACAL-DANA P/N	DESCRIPTION	MANUFACTURER	MANUFACTURER'S P/N	QTY
DB	129 301 002	PCB ASSY., 1260-36	SOFRA-PCB	F5930101-C : 6230	1
FP	129 301 001	PCB ASSY., 1260-36D	SOFRA-PCB	F5930102-B : 4725	1
HEB	809 301 001	FRONT PANEL	NETAL	F8930104-D	1
HET	680 000 007	HANDLE, EXTRACTOR, BOTTOM	SCHROFF	20817-327	1
HKT	680 000 006	HANDLE, EXTRACTOR, TOP	SCHROFF	20817-328	1
LCS	680 000 008	MOUNTING HARDWARE, HANDLE	SCHROFF	21100-745	1
LSVR	490 000 002	HARDWARE KIT TO220	COMATEL	4880 TO220	2
LV1	809 301 002	LABEL, CAUTION, STATIC	RSE	F9930104-003	1
MB	809 301 003	LABEL SET, VXI, RACAL-DANA	RSE	F9930104-004	1
MHH	809 301 004	LABEL, VXI, 1260-36	RSE	F9930104-002	1
PSR	456239-002	PANEL, VXI BOTTOM	RACAL US	456239-002	1
PVT	456238-002	PANEL, VXI TOP	RACAL US	456238-002	1
STD1	809 301 005	STANDOFFS	NETAL	F8930105-4.3	2
STD2	809 301 006	STANDOFFS	NETAL	F8930105-7.8	6
STD3	809 301 007	STANDOFFS	NETAL	F8930105-19	1
STD2	809 301 008	SPACER	NETAL	F8930106-1A	1

FS930100 SHIPPING KIT, 1260-36

REF. DESIGN	RACAL-DANA P/N	DESCRIPTION	MANUFACTURER	MANUFACTURER'S P/N	QTY
MJ1 to MJ12	149 301 001	CONNECTOR MALE, 20 PIN, + COVER	POSITRONIC	SGM20MSCE100J0	12
PAC	94VXI0001	PACKAGING	REAL PACK		1
UM	939 301 001	USER MANUAL	RSE		1

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REF. DESIGN	RACAL-DANA P/N	DESCRIPTION	MANUFACTURER	MANUFACTURER'S P/N	QTY
C1 to C12	330 000 006	CAP. TANTA., 6.8µF, 35V, 20%	AVX	6,8µF/35V	12
C170 to C175, C200 to C205	380 000 016	CAP. CERAM., 22pF/25V, SMD, 0805	AVX	22pF/25V	12
C97 to C199, C103	380 000 001	CAP. CERAM., 100nF/25V, SMD, 1206	AVX	100nF/25V	102
CX1 to CX3	380 000 999	CAP. CERAM., 1nF/1kV	MURATA / RS	DE805-979B102K2K	3
HP1,HP2	490 000 004	HEAT SINK	REDPOINT	TV1500	2
J1 to J12	149 301 002	CONNECTOR PCB, 20 PIN, SMPL20	POSITRONIC	SMPL20F0T0LB	12
SJ	859 301 001	SCREW, CONNECTOR SMPL20	POSITRONIC	2074-7-0-17	24
J200	149 301 003	CONNECTOR, 34 PINS	FUJISTSU	FCN-747B034-AU/0 : 115-9298	1
J3ABC,J4ABC	140 002 132	CONNECTOR, BOARD TO BOARD, 1X32	PRECIDIP	310-91-132-41-001-000	6
JW1 to JW11,JWA	149 301 004	CONNECTOR, RIGHT ANGLE, 2 PIN	AMP	5-826947-0	13
L1,L3,L4	530 000 002	CERAMIC FILTER 222M 250V	MURATA	DSS310H-558222M250	3
F1	170 000 003	DELAYED FUSE 5A SMD	SCHURTER	3402.0017.11	1
F2,F3	170 000 004	DELAYED FUSE 1.6A SMD	SCHURTER	3402.0011.11	2
LJ1	401 951	PCB ASSY., LBUS JUMPER	RACAL US	**401951**	1
LJ1		OPTION 01 FOR 1260	RACAL US	**OU 1260-01**	1
P1,P2	140 096 096	C SIZE DIN 41612 CONNECTOR 96/96	HARTING	09 03 196 6921	2
P200	149 301 011	CONNECTOR, RIGHT ANGLE, 34 PIN	HARTING	09 18 534 6913	1
POT1,POT2	219 301 001	POTENTIOMETER, 1 TURN, 200Ω	BECKMAN IND.	25PR200	2
POT3 to POT14	219 301 002	POTENTIOMETER, 25 T.,100ppm/°C, 10KΩ	BOURNS	3296P103	12
PWA	149 301 005	COAX. LINKER	3M ELEC.	982323-017-011.9	0,5
R1,R4	229 301 001	RESISTOR 82,5Ω, .25W, 1%	SPRAGUE	82,5Ω	2
R2,R3	220 200 101	RESISTOR 1kΩ, .25W, 1%	SPRAGUE	102	2
R24,26,27,29,30,32,33,35,36,38,39	229 301 002	RESISTOR 47.5kΩ, 1%, 50ppm/°C	PHILIPS COMP.	MRS25 4752	24
R5,6,8,9,11,12,14,15,17,18,20,21,23,	229 301 002	RESISTOR 47.5kΩ, 1%, 50ppm/°C	PHILIPS COMP.	MRS25 4752	
R7,10,13,16,19,22,25,28,31,34,37,40	239 301 001	RESISTOR 10MΩ, .25W	PHILIPS COMP.	SFR25 106	12
SW1,2,3	140 020 000	SWITCH, DIP 6 POS. LOW PROFILE	RS / APEM	132-2834 : IK 06	3
T200	149 301 006	TRANSITION CONNECTOR, 34 PINS	RS	145-0096	1
TP1 to TP5	149 301 010	TEST POINTS	RS	20-2137D / 101-2391	5
U1,5,9,13,17,21,61,62	470HCT164	IC, SHIFT REGISTER, 74HCT164, SMD	PHILIPS COMP.	PC74HCT164D	8
U2,6,10,14,18,22	470HCT273	IC, DIGITAL, FLIP FLOP, 74HCT273, SMD	PHILIPS COMP.	PC74HCT273D	6
U25	4200LM317	IC, VOLT. REGULATOR, LM317	MOTOROLA	LM317T	1
U26	4200LM337	IC, VOLT. REGULATOR, LM337	MOTOROLA	LM337T	1

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U27,29,31,33,35,37,39,41,43,45,47,49	42MPC508A	IC, ANALOG, MUX., MPC508AP	BURR BROWN	MPC508AP	12
U28,30,32,34,36,38,40,42,44,46,48,50	42OPA627A	IC, ANALOG, OP. AMP., OPA627AP/BP	BURR BROWN	OPA627AP/BP	12
U4,8,12,16,20,24,60	470HCT166	IC, 8 BIT PAR/SER. S.R., 74HCT166, SMD	PHILIPS COMP.	PC74HCT166D	7
U54	4700LS138	IC, DEMUX DECODER, 74LS138, SMD	SIGNETICS	N74LS138D	1
U56	4700HCT85	IC, 4 BIT COMPARATOR, 74HCT85, SMD	PHILIPS COMP.	PC74HCT85D	1
U57	4700LM339	IC, QUAD COMPARATOR, LM339, SMD	MOTOROLA	LM339D	1
U70	470 001 6L8	IC, PROGRAMMED PLA, SMD, PLCC 20	TEXAS INSTR.	16L8-25CFN	1
U53	470 001 6R4	IC, PROGRAMMED PLA, SMD, PLCC 20	TEXAS INSTR.	16R4-15CFN	1
U71,77	470HCT253	IC, MULTIPLEXER, 74HCT253, SMD	MOTOROLA	74HCT253D	2
U73,74	47026LS32	IC, QUAD DIFF. RECEIVER, 26LS32, SMD	TEXAS INSTR.	AM26LS32ACD	2
U75	47026LS31	IC, DIGITAL, LINE DRIVER, 26LS31, SMD	NATIONAL SEM.	DS26LS31MN	1
U76	470 022 V10	IC, PROGRAMMED PLA, SMD, PLCC 28	LATTICE	GAL22V10	1
U78,79,80	4700HCT08	IC, QUAD AND, 74HCT08, SMD	MOTOROLA	74HCT08	3
W1 to W11	149 301 007	PLUG JUMPER, LOW PROFILE	AMP	142270-1	1
W200	149 301 008	FLAT CABLE, 34 WIRES, AWG 28, 5 M	RS	126-3094	1
WA	149 301 009	CONNECTOR COAX. PCB	ATI	22204-131	1
Z13 to Z24	239 301 002	RESISTOR ARRAY 8X1MΩ	BECKMAN IND.	898-3-R1M	12
Z2,4,6,8,10,12,28	280 000 005	RESISTOR ARRAY, 8x10kΩ, SMD	BECKMAN IND.	628A103J	7
Z27	280 000 007	RESISTOR ARRAY, 8x15kΩ, SMD	BECKMAN IND.	628A153J	1

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Chapter 6

OPTIONAL HARNESS ASSEMBLIES

The following harness assemblies are used to connect Racal Instruments Model 1260-36 to Freedom Series Test Receiver Interfaces.

Each harness documentation consists of an assembly drawing, parts list, system wire list and wire list.

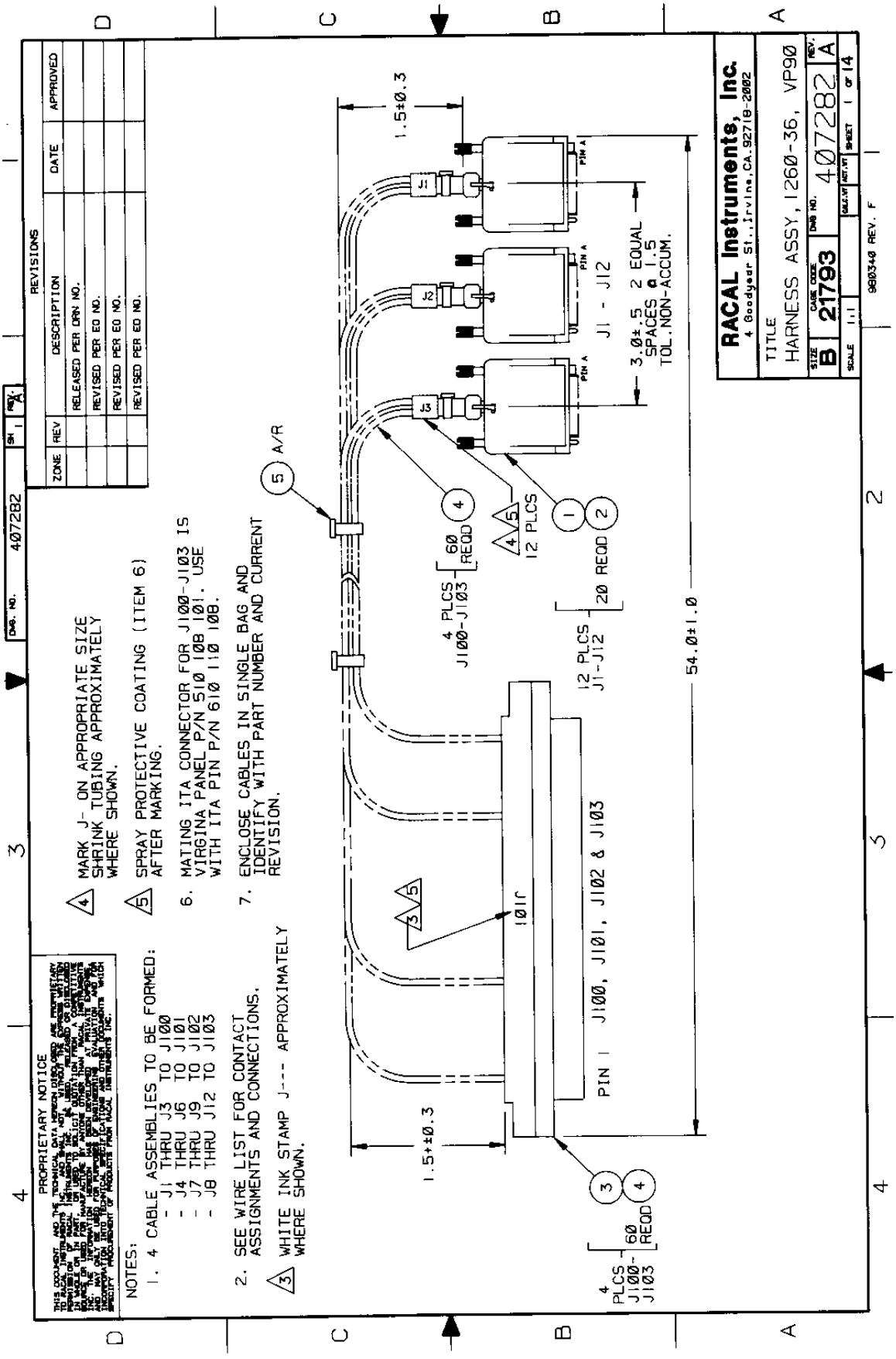
407282	Virginia Panel, Inc. Series VP90 Interface Harness
407283	TTI Testron, Inc. Interface Harness

For more information on Racal Instruments complete line of Test Receivers Interface solution, contact your Sales Representative.

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ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		601855-020	CON-CAB-PLG20CP.	12	J1-J12
2		602092-001	CONT,SGMC MALE, CRIMP	240	W/J1-J12
3		602201-001	CON-RCV-PLG064C.---D-VP90	4	J100-J103
4		602201-806	PATCHCORD,SIGNAL,24AWG,60"	240	W/J100-J103
5		610777	TIE-CA-LKG-.062-.075	A/R	
6		910541	POLYURETHANE CONF. COAT	A/R	

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HARNESS ASSY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J1-J3)	CABLE	407282		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (J4-J6)	CABLE	407282		
	BLK AA (J102)	Uxx-SLOT yy (J7-J9)	CABLE	407282		
	BLK AA (J103)	Uxx-SLOT yy (J10-J12)	CABLE	407282		

This system wirelist serves as a template for incorporating this harness assembly into the overall system wirelist. It does not in any way affect the fabrication of this harness assembly.

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 (602201-001)	J1-C 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 1
2	J100-33 (602201-001)	J1-A 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 5
3	J100-2 (602201-001)	J1-B 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
4	J100-34 (602201-001)	J1-D 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
5	J100-3 (602201-001)	J1-E 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
6	J100-35 (602201-001)	J1-F 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
7	J100-4 (602201-001)	J1-K 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 2
8	J100-36 (602201-001)	J1-H 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 6
9	J100-5 (602201-001)	J1-J 602092-001	24AWG WHT	602201-806	54"	GRP 1, OUT
10	J100-37 (602201-001)	J1-L 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
11	J100-6 (602201-001)	J1-N 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
12	J100-38 (602201-001)	J1-M 602092-001	24AWG WHT	602201-806	54"	GRP 1, OUT
13	J100-7 (602201-001)	J1-S 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 3
14	J100-39 (602201-001)	J1-P 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 7
15	J100-8 (602201-001)	J1-R 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
16	J100-40 (602201-001)	J1-T 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
17	J100-9 (602201-001)	J1-U 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
18	J100-41 (602201-001)	J1-V 602092-001	24AWG WHT	602201-806	54"	GRP 1, GND
19	J100-10 (602201-001)	J1-X 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 4
20	J100-42 (602201-001)	J1-W 602092-001	24AWG WHT	602201-806	54"	GRP 1, IN 8
21	J100-11 (602201-001)	J2-C 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 1
22	J100-43 (602201-001)	J2-A 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 5
23	J100-12 (602201-001)	J2-B 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
24	J100-44 (602201-001)	J2-D 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
25	J100-13 (602201-001)	J2-E 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
26	J100-45 (602201-001)	J2-F 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
27	J100-14 (602201-001)	J2-K 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 2
28	J100-46 (602201-001)	J2-H 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 6
29	J100-15 (602201-001)	J2-J 602092-001	24AWG WHT	602201-806	54"	GRP 2, OUT
30	J100-47 (602201-001)	J2-L 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
31	J100-16 (602201-001)	J2-N 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
32	J100-48 (602201-001)	J2-M 602092-001	24AWG WHT	602201-806	54"	GRP 2, OUT
33	J100-17 (602201-001)	J2-S 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 3
34	J100-49 (602201-001)	J2-P 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 7
35	J100-18 (602201-001)	J2-R 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
36	J100-50 (602201-001)	J2-T 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
37	J100-19 (602201-001)	J2-U 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
38	J100-51 (602201-001)	J2-V 602092-001	24AWG WHT	602201-806	54"	GRP 2, GND
39	J100-20 (602201-001)	J2-X 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 4
40	J100-52 (602201-001)	J2-W 602092-001	24AWG WHT	602201-806	54"	GRP 2, IN 8
41	J100-21 (602201-001)	J3-C 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 1
42	J100-53 (602201-001)	J3-A 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 5
43	J100-22 (602201-001)	J3-B 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
44	J100-54 (602201-001)	J3-D 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
45	J100-23 (602201-001)	J3-E 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
46	J100-55 (602201-001)	J3-F 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
47	J100-24 (602201-001)	J3-K 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 2
48	J100-56 (602201-001)	J3-H 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 6

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
49	J100-25 (602201-001)	J3-J 602092-001	24AWG WHT	602201-806	54"	GRP 3, OUT
50	J100-57 (602201-001)	J3-L 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
51	J100-26 (602201-001)	J3-N 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
52	J100-58 (602201-001)	J3-M 602092-001	24AWG WHT	602201-806	54"	GRP 3, OUT
53	J100-27 (602201-001)	J3-S 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 3
54	J100-59 (602201-001)	J3-P 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 7
55	J100-28 (602201-001)	J3-R 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
56	J100-60 (602201-001)	J3-T 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
57	J100-29 (602201-001)	J3-U 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
58	J100-61 (602201-001)	J3-V 602092-001	24AWG WHT	602201-806	54"	GRP 3, GND
59	J100-30 (602201-001)	J3-X 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 4
60	J100-62 (602201-001)	J3-W 602092-001	24AWG WHT	602201-806	54"	GRP 3, IN 8
61	J100-31 NO CONNECT					
62	J100-63 NO CONNECT					
63	J100-32 NO CONNECT					
64	J100-64 NO CONNECT					
65	J101-1 (602201-001)	J4-C 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 1
66	J101-33 (602201-001)	J4-A 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 5
67	J101-2 (602201-001)	J4-B 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
68	J101-34 (602201-001)	J4-D 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
69	J101-3 (602201-001)	J4-E 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
70	J101-35 (602201-001)	J4-F 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
71	J101-4 (602201-001)	J4-K 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 2
72	J101-36 (602201-001)	J4-H 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 6

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
73	J101-5 (602201-001)	J4-J 602092-001	24AWG WHT	602201-806	54"	GRP 4, OUT
74	J101-37 (602201-001)	J4-L 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
75	J101-6 (602201-001)	J4-N 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
76	J101-38 (602201-001)	J4-M 602092-001	24AWG WHT	602201-806	54"	GRP 4, OUT
77	J101-7 (602201-001)	J4-S 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 3
78	J101-39 (602201-001)	J4-P 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 7
79	J101-8 (602201-001)	J4-R 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
80	J101-40 (602201-001)	J4-T 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
81	J101-9 (602201-001)	J4-U 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
82	J101-41 (602201-001)	J4-V 602092-001	24AWG WHT	602201-806	54"	GRP 4, GND
83	J101-10 (602201-001)	J4-X 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 4
84	J101-42 (602201-001)	J4-W 602092-001	24AWG WHT	602201-806	54"	GRP 4, IN 8
85	J101-11 (602201-001)	J5-C 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 1
86	J101-43 (602201-001)	J5-A 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 5
87	J101-12 (602201-001)	J5-B 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
88	J101-44 (602201-001)	J5-D 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
89	J101-13 (602201-001)	J5-E 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
90	J101-45 (602201-001)	J5-F 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
91	J101-14 (602201-001)	J5-K 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 2
92	J101-46 (602201-001)	J5-H 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 6
93	J101-15 (602201-001)	J5-J 602092-001	24AWG WHT	602201-806	54"	GRP 5, OUT
94	J101-47 (602201-001)	J5-L 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
95	J101-16 (602201-001)	J5-N 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
96	J101-48 (602201-001)	J5-M 602092-001	24AWG WHT	602201-806	54"	GRP 5, OUT

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
97	J101-17 (602201-001)	J5-S 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 3
98	J101-49 (602201-001)	J5-P 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 7
99	J101-18 (602201-001)	J5-R 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
100	J101-50 (602201-001)	J5-T 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
101	J101-19 (602201-001)	J5-U 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
102	J101-51 (602201-001)	J5-V 602092-001	24AWG WHT	602201-806	54"	GRP 5, GND
103	J101-20 (602201-001)	J5-X 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 4
104	J101-52 (602201-001)	J5-W 602092-001	24AWG WHT	602201-806	54"	GRP 5, IN 8
105	J101-21 (602201-001)	J6-C 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 1
106	J101-53 (602201-001)	J6-A 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 5
107	J101-22 (602201-001)	J6-B 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
108	J101-54 (602201-001)	J6-D 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
109	J101-23 (602201-001)	J6-E 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
110	J101-55 (602201-001)	J6-F 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
111	J101-24 (602201-001)	J6-K 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 2
112	J101-56 (602201-001)	J6-H 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 6
113	J101-25 (602201-001)	J6-J 602092-001	24AWG WHT	602201-806	54"	GRP 6, OUT
114	J101-57 (602201-001)	J6-L 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
115	J101-26 (602201-001)	J6-N 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
116	J101-58 (602201-001)	J6-M 602092-001	24AWG WHT	602201-806	54"	GRP 6, OUT
117	J101-27 (602201-001)	J6-S 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 3
118	J101-59 (602201-001)	J6-P 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 7
119	J101-28 (602201-001)	J6-R 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
120	J101-60 (602201-001)	J6-T 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
121	J101-29 (602201-001)	J6-U 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
122	J101-61 (602201-001)	J6-V 602092-001	24AWG WHT	602201-806	54"	GRP 6, GND
123	J101-30 (602201-001)	J6-X 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 4
124	J101-62 (602201-001)	J6-W 602092-001	24AWG WHT	602201-806	54"	GRP 6, IN 8
125	J101-31 NO CONNECT					
126	J101-63 NO CONNECT					
127	J101-32 NO CONNECT					
128	J101-64 NO CONNECT					
129	J102-1 (602201-001)	J7-C 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 1
130	J102-33 (602201-001)	J7-A 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 5
131	J102-2 (602201-001)	J7-B 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
132	J102-34 (602201-001)	J7-D 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
133	J102-3 (602201-001)	J7-E 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
134	J102-35 (602201-001)	J7-F 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
135	J102-4 (602201-001)	J7-K 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 2
136	J102-36 (602201-001)	J7-H 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 6
137	J102-5 (602201-001)	J7-J 602092-001	24AWG WHT	602201-806	54"	GRP 7, OUT
138	J102-37 (602201-001)	J7-L 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
139	J102-6 (602201-001)	J7-N 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
140	J102-38 (602201-001)	J7-M 602092-001	24AWG WHT	602201-806	54"	GRP 7, OUT
141	J102-7 (602201-001)	J7-S 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 3
142	J102-39 (602201-001)	J7-P 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 7
143	J102-8 (602201-001)	J7-R 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
144	J102-40 (602201-001)	J7-T 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND

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RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
145	J102-9 (602201-001)	J7-U 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
146	J102-41 (602201-001)	J7-V 602092-001	24AWG WHT	602201-806	54"	GRP 7, GND
147	J102-10 (602201-001)	J7-X 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 4
148	J102-42 (602201-001)	J7-W 602092-001	24AWG WHT	602201-806	54"	GRP 7, IN 8
149	J102-11 (602201-001)	J8-C 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 1
150	J102-43 (602201-001)	J8-A 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 5
151	J102-12 (602201-001)	J8-B 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
152	J102-44 (602201-001)	J8-D 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
153	J102-13 (602201-001)	J8-E 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
154	J102-45 (602201-001)	J8-F 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
155	J102-14 (602201-001)	J8-K 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 2
156	J102-46 (602201-001)	J8-H 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 6
157	J102-15 (602201-001)	J8-J 602092-001	24AWG WHT	602201-806	54"	GRP 8, OUT
158	J102-47 (602201-001)	J8-L 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
159	J102-16 (602201-001)	J8-N 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
160	J102-48 (602201-001)	J8-M 602092-001	24AWG WHT	602201-806	54"	GRP 8, OUT
161	J102-17 (602201-001)	J8-S 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 3
162	J102-49 (602201-001)	J8-P 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 7
163	J102-18 (602201-001)	J8-R 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
164	J102-50 (602201-001)	J8-T 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
165	J102-19 (602201-001)	J8-U 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
166	J102-51 (602201-001)	J8-V 602092-001	24AWG WHT	602201-806	54"	GRP 8, GND
167	J102-20 (602201-001)	J8-X 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 4
168	J102-52 (602201-001)	J8-W 602092-001	24AWG WHT	602201-806	54"	GRP 8, IN 8

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RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
169	J102-21 (602201-001)	J9-C 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 1
170	J102-53 (602201-001)	J9-A 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 5
171	J102-22 (602201-001)	J9-B 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
172	J102-54 (602201-001)	J9-D 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
173	J102-23 (602201-001)	J9-E 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
174	J102-55 (602201-001)	J9-F 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
175	J102-24 (602201-001)	J9-K 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 2
176	J102-56 (602201-001)	J9-H 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 6
177	J102-25 (602201-001)	J9-J 602092-001	24AWG WHT	602201-806	54"	GRP 9, OUT
178	J102-57 (602201-001)	J9-L 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
179	J102-26 (602201-001)	J9-N 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
180	J102-58 (602201-001)	J9-M 602092-001	24AWG WHT	602201-806	54"	GRP 9, OUT
181	J102-27 (602201-001)	J9-S 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 3
182	J102-59 (602201-001)	J9-P 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 7
183	J102-28 (602201-001)	J9-R 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
184	J102-60 (602201-001)	J9-T 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
185	J102-29 (602201-001)	J9-U 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
186	J102-61 (602201-001)	J9-V 602092-001	24AWG WHT	602201-806	54"	GRP 9, GND
187	J102-30 (602201-001)	J9-X 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 4
188	J102-62 (602201-001)	J9-W 602092-001	24AWG WHT	602201-806	54"	GRP 9, IN 8
189	J102-31 NO CONNECT					
190	J102-63 NO CONNECT					
191	J102-32 NO CONNECT					
192	J102-64 NO CONNECT					

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RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
193	J103-1 (602201-001)	J10-C 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 1
194	J103-33 (602201-001)	J10-A 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 5
195	J103-2 (602201-001)	J10-B 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
196	J103-34 (602201-001)	J10-D 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
197	J103-3 (602201-001)	J10-E 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
198	J103-35 (602201-001)	J10-F 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
199	J103-4 (602201-001)	J10-K 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 2
200	J103-36 (602201-001)	J10-H 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 6
201	J103-5 (602201-001)	J10-J 602092-001	24AWG WHT	602201-806	54"	GRP 10, OUT
202	J103-37 (602201-001)	J10-L 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
203	J103-6 (602201-001)	J10-N 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
204	J103-38 (602201-001)	J10-M 602092-001	24AWG WHT	602201-806	54"	GRP 10, OUT
205	J103-7 (602201-001)	J10-S 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 3
206	J103-39 (602201-001)	J10-P 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 7
207	J103-8 (602201-001)	J10-R 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
208	J103-40 (602201-001)	J10-T 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
209	J103-9 (602201-001)	J10-U 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
210	J103-41 (602201-001)	J10-V 602092-001	24AWG WHT	602201-806	54"	GRP 10, GND
211	J103-10 (602201-001)	J10-X 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 4
212	J103-42 (602201-001)	J10-W 602092-001	24AWG WHT	602201-806	54"	GRP 10, IN 8
213	J103-11 (602201-001)	J11-C 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 1
214	J103-43 (602201-001)	J11-A 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 5
215	J103-12 (602201-001)	J11-B 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND

DOC. NO. 407282

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
216	J103-44 (602201-001)	J11-D 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
217	J103-13 (602201-001)	J11-E 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
218	J103-45 (602201-001)	J11-F 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
219	J103-14 (602201-001)	J11-K 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 2
220	J103-46 (602201-001)	J11-H 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 6
221	J103-15 (602201-001)	J11-J 602092-001	24AWG WHT	602201-806	54"	GRP 11, OUT
222	J103-47 (602201-001)	J11-L 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
223	J103-16 (602201-001)	J11-N 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
224	J103-48 (602201-001)	J11-M 602092-001	24AWG WHT	602201-806	54"	GRP 11, OUT
225	J103-17 (602201-001)	J11-S 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 3
226	J103-49 (602201-001)	J11-P 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 7
227	J103-18 (602201-001)	J11-R 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
228	J103-50 (602201-001)	J11-T 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
229	J103-19 (602201-001)	J11-U 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
230	J103-51 (602201-001)	J11-V 602092-001	24AWG WHT	602201-806	54"	GRP 11, GND
231	J103-20 (602201-001)	J11-X 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 4
232	J103-52 (602201-001)	J11-W 602092-001	24AWG WHT	602201-806	54"	GRP 11, IN 8
233	J103-21 (602201-001)	J12-C 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 1
234	J103-53 (602201-001)	J12-A 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 5
235	J103-22 (602201-001)	J12-B 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
236	J103-54 (602201-001)	J12-D 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
237	J103-23 (602201-001)	J12-E 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
238	J103-55 (602201-001)	J12-F 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
239	J103-24 (602201-001)	J12-K 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 2

DOC. NO. 407282

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, VP90	A	21793	407282	A
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ENGINEERING WIRE LIST

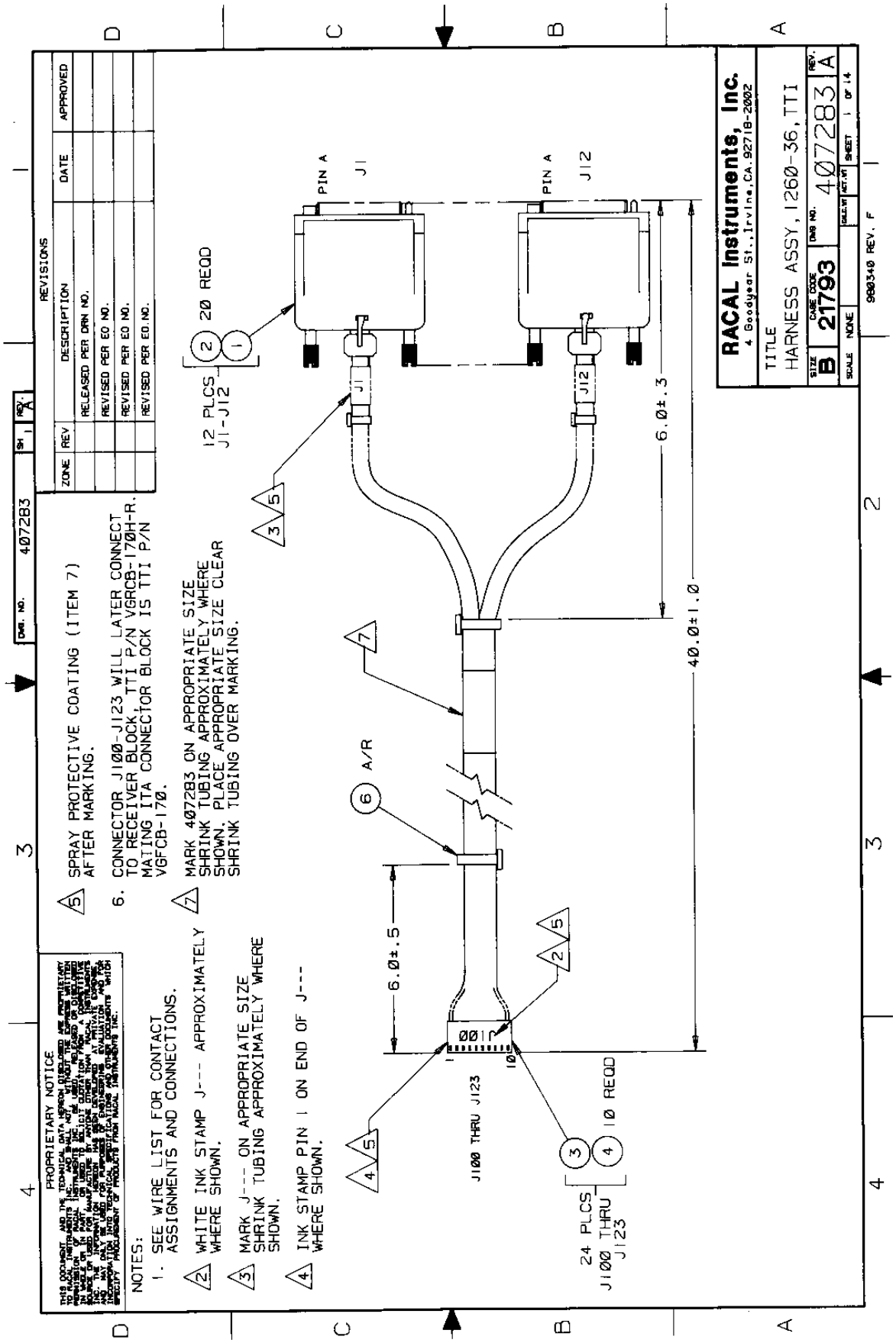
WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
240	J103-56 (602201-001)	J12-H 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 6
241	J103-25 (602201-001)	J12-J 602092-001	24AWG WHT	602201-806	54"	GRP 12, OUT
242	J103-57 (602201-001)	J12-L 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
243	J103-26 (602201-001)	J12-N 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
244	J103-58 (602201-001)	J12-M 602092-001	24AWG WHT	602201-806	54"	GRP 12, OUT
245	J103-27 (602201-001)	J12-S 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 3
246	J103-59 (602201-001)	J12-P 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 7
247	J103-28 (602201-001)	J12-R 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
248	J103-60 (602201-001)	J12-T 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
249	J103-29 (602201-001)	J12-U 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
250	J103-61 (602201-001)	J12-V 602092-001	24AWG WHT	602201-806	54"	GRP 12, GND
251	J103-30 (602201-001)	J12-X 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 4
252	J103-62 (602201-001)	J12-W 602092-001	24AWG WHT	602201-806	54"	GRP 12, IN 8
253	J103-31 NO CONNECT					
254	J103-63 NO CONNECT					
255	J103-32 NO CONNECT					
256	J103-64 NO CONNECT					

DOC. NO. 407282

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		601855-020	CON-CAB-PLG20CP.	12	J1-J12
2		602092-001	CONT,SGMC MALE, CRIMP	240	W/J1-J12
3		602193-010	CON-CAB-RCP10CP.100S	24	J100-J123
4		602199-001	CONTACT,CRIMP,RECPT,28-22GA	240	W/J100-J123
5		524999	WRTEF-STR24G-9-9-9	A/R	
6		610777	TIE-CA-LKG-.062-.075	A/R	
7		910541	POLYURETHANE CONFORMAL COAT	A/R	

DOC. NO. 407283

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-36, TTI	A	21793	407283	A
	DRN		SHEET 2 of 14	

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx RW 01 (J100)	Uxx-SLOT yy (J1)	CABLE	407283		SYSTEM WIRE LIST
	BLK AAx RW 02 (J101)	Uxx-SLOT yy (J1)	CABLE	407283		
	BLK AAx RW 03 (J102)	Uxx-SLOT yy (J2)	CABLE	407283		
	BLK AAx RW 04 (J103)	Uxx-SLOT yy (J2)	CABLE	407283		
	BLK AAx RW 05 (J104)	Uxx-SLOT yy (J3)	CABLE	407283		
	BLK AAx RW 06 (J105)	Uxx-SLOT yy (J3)	CABLE	407283		
	BLK AAx RW 07 (J106)	Uxx-SLOT yy (J4)	CABLE	407283		
	BLK AAx RW 08 (J107)	Uxx-SLOT yy (J4)	CABLE	407283		
	BLK AAx RW 09 (J108)	Uxx-SLOT yy (J5)	CABLE	407283		
	BLK AAx RW 10 (J109)	Uxx-SLOT yy (J5)	CABLE	407283		
	BLK AAx RW 11 (J110)	Uxx-SLOT yy (J6)	CABLE	407283		
	BLK AAx RW 12 (J111)	Uxx-SLOT yy (J6)	CABLE	407283		
	BLK AAx RW 13 (J112)	Uxx-SLOT yy (J7)	CABLE	407283		
	BLK AAx RW 14 (J113)	Uxx-SLOT yy (J7)	CABLE	407283		
	BLK AAx RW 15 (J114)	Uxx-SLOT yy (J8)	CABLE	407283		
	BLK AAx RW 16 (J115)	Uxx-SLOT yy (J8)	CABLE	407283		
	BLK AAx RW 17 (J116)	Uxx-SLOT yy (J9)	CABLE	407283		
	BLK AAx RW 18 (J117)	Uxx-SLOT yy (J9)	CABLE	407283		
	BLK AAx RW 19 (J118)	Uxx-SLOT yy (J10)	CABLE	407283		
	BLK AAx RW 20 (J119)	Uxx-SLOT yy (J10)	CABLE	407283		
	BLK AAx RW 21 (J120)	Uxx-SLOT yy (J11)	CABLE	407283		
	BLK AAx RW 22 (J121)	Uxx-SLOT yy (J11)	CABLE	407283		
	BLK AAx RW 23 (J122)	Uxx-SLOT yy (J12)	CABLE	407283		
	BLK AAx RW 24 (J123)	Uxx-SLOT yy (J12)	CABLE	407283		

This system wirelist serves as a template for incorporating this harness assembly into the overall system wirelist. It does not in any way affect the fabrication of this harness assembly.

DOC. NO. 407283

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, TTI	A	21793	407283	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 602199-001	J1-C 602092-001	24AWG WHT	524999	40"	GRP 1, IN 1
2	J100-2 602199-001	J1-A 602092-001	24AWG WHT	524999	40"	GRP 1, IN 5
3	J100-3 602199-001	J1-B 602092-001	24AWG WHT	524999	40"	GRP 1, GND
4	J100-4 602199-001	J1-D 602092-001	24AWG WHT	524999	40"	GRP 1, GND
5	J100-5 602199-001	J1-E 602092-001	24AWG WHT	524999	40"	GRP 1, GND
6	J100-6 602199-001	J1-F 602092-001	24AWG WHT	524999	40"	GRP 1, GND
7	J100-7 602199-001	J1-K 602092-001	24AWG WHT	524999	40"	GRP 1, IN 2
8	J100-8 602199-001	J1-H 602092-001	24AWG WHT	524999	40"	GRP 1, IN 6
9	J100-9 602199-001	J1-J 602092-001	24AWG WHT	524999	40"	GRP 1, OUT
10	J100-10 602199-001	J1-L 602092-001	24AWG WHT	524999	40"	GRP 1, GND
11	J101-10 602199-001	J1-N 602092-001	24AWG WHT	524999	40"	GRP 1, GND
12	J101-9 602199-001	J1-M 602092-001	24AWG WHT	524999	40"	GRP 1, OUT
13	J101-8 602199-001	J1-S 602092-001	24AWG WHT	524999	40"	GRP 1, IN 3
14	J101-7 602199-001	J1-P 602092-001	24AWG WHT	524999	40"	GRP 1, IN 7
15	J101-6 602199-001	J1-R 602092-001	24AWG WHT	524999	40"	GRP 1, GND
16	J101-5 602199-001	J1-T 602092-001	24AWG WHT	524999	40"	GRP 1, GND
17	J101-4 602199-001	J1-U 602092-001	24AWG WHT	524999	40"	GRP 1, GND
18	J101-3 602199-001	J1-V 602092-001	24AWG WHT	524999	40"	GRP 1, GND
19	J101-2 602199-001	J1-X 602092-001	24AWG WHT	524999	40"	GRP 1, IN 4
20	J101-1 602199-001	J1-W 602092-001	24AWG WHT	524999	40"	GRP 1, IN 8
21	J102-1 602199-001	J2-C 602092-001	24AWG WHT	524999	40"	GRP 2, IN 1
22	J102-2 602199-001	J2-A 602092-001	24AWG WHT	524999	40"	GRP 2, IN 5
23	J102-3 602199-001	J2-B 602092-001	24AWG WHT	524999	40"	GRP 2, GND

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
24	J102-4 602199-001	J2-D 602092-001	24AWG WHT	524999	40"	GRP 2, GND
25	J102-5 602199-001	J2-E 602092-001	24AWG WHT	524999	40"	GRP 2, GND
26	J102-6 602199-001	J2-F 602092-001	24AWG WHT	524999	40"	GRP 2, GND
27	J102-7 602199-001	J2-K 602092-001	24AWG WHT	524999	40"	GRP 2, IN 2
28	J102-8 602199-001	J2-H 602092-001	24AWG WHT	524999	40"	GRP 2, IN 6
29	J102-9 602199-001	J2-J 602092-001	24AWG WHT	524999	40"	GRP 2, OUT
30	J102-10 602199-001	J2-L 602092-001	24AWG WHT	524999	40"	GRP 2, GND
31	J103-10 602199-001	J2-N 602092-001	24AWG WHT	524999	40"	GRP 2, GND
32	J103-9 602199-001	J2-M 602092-001	24AWG WHT	524999	40"	GRP 2, OUT
33	J103-8 602199-001	J2-S 602092-001	24AWG WHT	524999	40"	GRP 2, IN 3
34	J103-7 602199-001	J2-P 602092-001	24AWG WHT	524999	40"	GRP 2, IN 7
35	J103-6 602199-001	J2-R 602092-001	24AWG WHT	524999	40"	GRP 2, GND
36	J103-5 602199-001	J2-T 602092-001	24AWG WHT	524999	40"	GRP 2, GND
37	J103-4 602199-001	J2-U 602092-001	24AWG WHT	524999	40"	GRP 2, GND
38	J103-3 602199-001	J2-V 602092-001	24AWG WHT	524999	40"	GRP 2, GND
39	J103-2 602199-001	J2-X 602092-001	24AWG WHT	524999	40"	GRP 2, IN 4
40	J103-1 602199-001	J2-W 602092-001	24AWG WHT	524999	40"	GRP 2, IN 8
41	J104-1 602199-001	J3-C 602092-001	24AWG WHT	524999	40"	GRP 3, IN 1
42	J104-2 602199-001	J3-A 602092-001	24AWG WHT	524999	40"	GRP 3, IN 5
43	J104-3 602199-001	J3-B 602092-001	24AWG WHT	524999	40"	GRP 3, GND
44	J104-4 602199-001	J3-D 602092-001	24AWG WHT	524999	40"	GRP 3, GND
45	J104-5 602199-001	J3-E 602092-001	24AWG WHT	524999	40"	GRP 3, GND
46	J104-6 602199-001	J3-F 602092-001	24AWG WHT	524999	40"	GRP 3, GND

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
47	J104-7 602199-001	J3-K 602092-001	24AWG WHT	524999	40"	GRP 3, IN 2
48	J104-8 602199-001	J3-H 602092-001	24AWG WHT	524999	40"	GRP 3, IN 6
49	J104-9 602199-001	J3-J 602092-001	24AWG WHT	524999	40"	GRP 3, OUT
50	J104-10 602199-001	J3-L 602092-001	24AWG WHT	524999	40"	GRP 3, GND
51	J105-10 602199-001	J3-N 602092-001	24AWG WHT	524999	40"	GRP 3, GND
52	J105-9 602199-001	J3-M 602092-001	24AWG WHT	524999	40"	GRP 3, OUT
53	J105-8 602199-001	J3-S 602092-001	24AWG WHT	524999	40"	GRP 3, IN 3
54	J105-7 602199-001	J3-P 602092-001	24AWG WHT	524999	40"	GRP 3, IN 7
55	J105-6 602199-001	J3-R 602092-001	24AWG WHT	524999	40"	GRP 3, GND
56	J105-5 602199-001	J3-T 602092-001	24AWG WHT	524999	40"	GRP 3, GND
57	J105-4 602199-001	J3-U 602092-001	24AWG WHT	524999	40"	GRP 3, GND
58	J105-3 602199-001	J3-V 602092-001	24AWG WHT	524999	40"	GRP 3, GND
59	J105-2 602199-001	J3-X 602092-001	24AWG WHT	524999	40"	GRP 3, IN 4
60	J105-1 602199-001	J3-W 602092-001	24AWG WHT	524999	40"	GRP 3, IN 8
61	J106-1 602199-001	J4-C 602092-001	24AWG WHT	524999	40"	GRP 4, IN 1
62	J106-2 602199-001	J4-A 602092-001	24AWG WHT	524999	40"	GRP 4, IN 5
63	J106-3 602199-001	J4-B 602092-001	24AWG WHT	524999	40"	GRP 4, GND
64	J106-4 602199-001	J4-D 602092-001	24AWG WHT	524999	40"	GRP 4, GND
65	J106-5 602199-001	J4-E 602092-001	24AWG WHT	524999	40"	GRP 4, GND
66	J106-6 602199-001	J4-F 602092-001	24AWG WHT	524999	40"	GRP 4, GND
67	J106-7 602199-001	J4-K 602092-001	24AWG WHT	524999	40"	GRP 4, IN 2
68	J106-8 602199-001	J4-H 602092-001	24AWG WHT	524999	40"	GRP 4, IN 6
69	J106-9 602199-001	J4-J 602092-001	24AWG WHT	524999	40"	GRP 4, OUT

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
70	J106-10 602199-001	J4-L 602092-001	24AWG WHT	524999	40"	GRP 4, GND
71	J107-10 602199-001	J4-N 602092-001	24AWG WHT	524999	40"	GRP 4, GND
72	J107-9 602199-001	J4-M 602092-001	24AWG WHT	524999	40"	GRP 4, OUT
73	J107-8 602199-001	J4-S 602092-001	24AWG WHT	524999	40"	GRP 4, IN 3
74	J107-7 602199-001	J4-P 602092-001	24AWG WHT	524999	40"	GRP 4, IN 7
75	J107-6 602199-001	J4-R 602092-001	24AWG WHT	524999	40"	GRP 4, GND
76	J107-5 602199-001	J4-T 602092-001	24AWG WHT	524999	40"	GRP 4, GND
77	J107-4 602199-001	J4-U 602092-001	24AWG WHT	524999	40"	GRP 4, GND
78	J107-3 602199-001	J4-V 602092-001	24AWG WHT	524999	40"	GRP 4, GND
79	J107-2 602199-001	J4-X 602092-001	24AWG WHT	524999	40"	GRP 4, IN 4
80	J107-1 602199-001	J4-W 602092-001	24AWG WHT	524999	40"	GRP 4, IN 8
81	J108-1 602199-001	J5-C 602092-001	24AWG WHT	524999	40"	GRP 5, IN 1
82	J108-2 602199-001	J5-A 602092-001	24AWG WHT	524999	40"	GRP 5, IN 5
83	J108-3 602199-001	J5-B 602092-001	24AWG WHT	524999	40"	GRP 5, GND
84	J108-4 602199-001	J5-D 602092-001	24AWG WHT	524999	40"	GRP 5, GND
85	J108-5 602199-001	J5-E 602092-001	24AWG WHT	524999	40"	GRP 5, GND
86	J108-6 602199-001	J5-F 602092-001	24AWG WHT	524999	40"	GRP 5, GND
87	J108-7 602199-001	J5-K 602092-001	24AWG WHT	524999	40"	GRP 5, IN 2
88	J108-8 602199-001	J5-H 602092-001	24AWG WHT	524999	40"	GRP 5, IN 6
89	J108-9 602199-001	J5-J 602092-001	24AWG WHT	524999	40"	GRP 5, OUT
90	J108-10 602199-001	J5-L 602092-001	24AWG WHT	524999	40"	GRP 5, GND
91	J109-10 602199-001	J5-N 602092-001	24AWG WHT	524999	40"	GRP 5, GND

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
92	J109-9 602199-001	J5-M 602092-001	24AWG WHT	524999	40"	GRP 5, OUT
93	J109-8 602199-001	J5-S 602092-001	24AWG WHT	524999	40"	GRP 5, IN 3
94	J109-7 602199-001	J5-P 602092-001	24AWG WHT	524999	40"	GRP 5, IN 7
95	J109-6 602199-001	J5-R 602092-001	24AWG WHT	524999	40"	GRP 5, GND
96	J109-5 602199-001	J5-T 602092-001	24AWG WHT	524999	40"	GRP 5, GND
97	J109-4 602199-001	J5-U 602092-001	24AWG WHT	524999	40"	GRP 5, GND
98	J109-3 602199-001	J5-V 602092-001	24AWG WHT	524999	40"	GRP 5, GND
99	J109-2 602199-001	J5-X 602092-001	24AWG WHT	524999	40"	GRP 5, IN 4
100	J109-1 602199-001	J5-W 602092-001	24AWG WHT	524999	40"	GRP 5, IN 8
101	J110-1 602199-001	J6-C 602092-001	24AWG WHT	524999	40"	GRP 6, IN 1
102	J110-2 602199-001	J6-A 602092-001	24AWG WHT	524999	40"	GRP 6, IN 5
103	J110-3 602199-001	J6-B 602092-001	24AWG WHT	524999	40"	GRP 6, GND
104	J110-4 602199-001	J6-D 602092-001	24AWG WHT	524999	40"	GRP 6, GND
105	J110-5 602199-001	J6-E 602092-001	24AWG WHT	524999	40"	GRP 6, GND
106	J110-6 602199-001	J6-F 602092-001	24AWG WHT	524999	40"	GRP 6, GND
107	J110-7 602199-001	J6-K 602092-001	24AWG WHT	524999	40"	GRP 6, IN 2
108	J110-8 602199-001	J6-H 602092-001	24AWG WHT	524999	40"	GRP 6, IN 6
109	J110-9 602199-001	J6-J 602092-001	24AWG WHT	524999	40"	GRP 6, OUT
110	J110-10 602199-001	J6-L 602092-001	24AWG WHT	524999	40"	GRP 6, GND
111	J111-10 602199-001	J6-N 602092-001	24AWG WHT	524999	40"	GRP 6, GND
112	J111-9 602199-001	J6-M 602092-001	24AWG WHT	524999	40"	GRP 6, OUT
113	J111-8 602199-001	J6-S 602092-001	24AWG WHT	524999	40"	GRP 6, IN 3
114	J111-7 602199-001	J6-P 602092-001	24AWG WHT	524999	40"	GRP 6, IN 7

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
115	J111-6 602199-001	J6-R 602092-001	24AWG WHT	524999	40"	GRP 6, GND
116	J111-5 602199-001	J6-T 602092-001	24AWG WHT	524999	40"	GRP 6, GND
117	J111-4 602199-001	J6-U 602092-001	24AWG WHT	524999	40"	GRP 6, GND
118	J111-3 602199-001	J6-V 602092-001	24AWG WHT	524999	40"	GRP 6, GND
119	J111-2 602199-001	J6-X 602092-001	24AWG WHT	524999	40"	GRP 6, IN 4
120	J111-1 602199-001	J6-W 602092-001	24AWG WHT	524999	40"	GRP 6, IN 8
121	J112-1 602199-001	J7-C 602092-001	24AWG WHT	524999	40"	GRP 7, IN 1
122	J112-2 602199-001	J7-A 602092-001	24AWG WHT	524999	40"	GRP 7, IN 5
123	J112-3 602199-001	J7-B 602092-001	24AWG WHT	524999	40"	GRP 7, GND
121	J112-4 602199-001	J7-D 602092-001	24AWG WHT	524999	40"	GRP 7, GND
125	J112-5 602199-001	J7-E 602092-001	24AWG WHT	524999	40"	GRP 7, GND
126	J112-6 602199-001	J7-F 602092-001	24AWG WHT	524999	40"	GRP 7, GND
127	J112-7 602199-001	J7-K 602092-001	24AWG WHT	524999	40"	GRP 7, IN 2
128	J112-8 602199-001	J7-H 602092-001	24AWG WHT	524999	40"	GRP 7, IN 6
129	J112-9 602199-001	J7-J 602092-001	24AWG WHT	524999	40"	GRP 7, OUT
130	J112-10 602199-001	J7-L 602092-001	24AWG WHT	524999	40"	GRP 7, GND
131	J113-10 602199-001	J7-N 602092-001	24AWG WHT	524999	40"	GRP 7, GND
132	J113-9 602199-001	J7-M 602092-001	24AWG WHT	524999	40"	GRP 7, OUT
133	J113-8 602199-001	J7-S 602092-001	24AWG WHT	524999	40"	GRP 7, IN 3
134	J113-7 602199-001	J7-P 602092-001	24AWG WHT	524999	40"	GRP 7, IN 7
135	J113-6 602199-001	J7-R 602092-001	24AWG WHT	524999	40"	GRP 7, GND
136	J113-5 602199-001	J7-T 602092-001	24AWG WHT	524999	40"	GRP 7, GND
137	J113-4 602199-001	J7-U 602092-001	24AWG WHT	524999	40"	GRP 7, GND

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
138	J113-3 602199-001	J7-V 602092-001	24AWG WHT	524999	40"	GRP 7, GND
139	J113-2 602199-001	J7-X 602092-001	24AWG WHT	524999	40"	GRP 7, IN 4
140	J113-1 602199-001	J7-W 602092-001	24AWG WHT	524999	40"	GRP 7, IN 8
141	J114-1 602199-001	J8-C 602092-001	24AWG WHT	524999	40"	GRP 8, IN 1
142	J114-2 602199-001	J8-A 602092-001	24AWG WHT	524999	40"	GRP 8, IN 5
143	J114-3 602199-001	J8-B 602092-001	24AWG WHT	524999	40"	GRP 8, GND
144	J114-4 602199-001	J8-D 602092-001	24AWG WHT	524999	40"	GRP 8, GND
145	J114-5 602199-001	J8-E 602092-001	24AWG WHT	524999	40"	GRP 8, GND
146	J114-6 602199-001	J8-F 602092-001	24AWG WHT	524999	40"	GRP 8, GND
147	J114-7 602199-001	J8-K 602092-001	24AWG WHT	524999	40"	GRP 8, IN 2
148	J114-8 602199-001	J8-H 602092-001	24AWG WHT	524999	40"	GRP 8, IN 6
149	J114-9 602199-001	J8-J 602092-001	24AWG WHT	524999	40"	GRP 8, OUT
150	J114-10 602199-001	J8-L 602092-001	24AWG WHT	524999	40"	GRP 8, GND
151	J115-10 602199-001	J8-N 602092-001	24AWG WHT	524999	40"	GRP 8, GND
152	J115-9 602199-001	J8-M 602092-001	24AWG WHT	524999	40"	GRP 8, OUT
153	J115-8 602199-001	J8-S 602092-001	24AWG WHT	524999	40"	GRP 8, IN 3
154	J115-7 602199-001	J8-P 602092-001	24AWG WHT	524999	40"	GRP 8, IN 7
155	J115-6 602199-001	J8-R 602092-001	24AWG WHT	524999	40"	GRP 8, GND
156	J115-5 602199-001	J8-T 602092-001	24AWG WHT	524999	40"	GRP 8, GND
157	J115-4 602199-001	J8-U 602092-001	24AWG WHT	524999	40"	GRP 8, GND
158	J115-3 602199-001	J8-V 602092-001	24AWG WHT	524999	40"	GRP 8, GND
159	J115-2 602199-001	J8-X 602092-001	24AWG WHT	524999	40"	GRP 8, IN 4
160	J115-1 602199-001	J8-W 602092-001	24AWG WHT	524999	40"	GRP 8, IN 8

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
161	J116-1 602199-001	J9-C 602092-001	24AWG WHT	524999	40"	GRP 9, IN 1
162	J116-2 602199-001	J9-A 602092-001	24AWG WHT	524999	40"	GRP 9, IN 5
163	J116-3 602199-001	J9-B 602092-001	24AWG WHT	524999	40"	GRP 9, GND
164	J116-4 602199-001	J9-D 602092-001	24AWG WHT	524999	40"	GRP 9, GND
165	J116-5 602199-001	J9-E 602092-001	24AWG WHT	524999	40"	GRP 9, GND
166	J116-6 602199-001	J9-F 602092-001	24AWG WHT	524999	40"	GRP 9, GND
167	J116-7 602199-001	J9-K 602092-001	24AWG WHT	524999	40"	GRP 9, IN 2
168	J116-8 602199-001	J9-H 602092-001	24AWG WHT	524999	40"	GRP 9, IN 6
169	J116-9 602199-001	J9-J 602092-001	24AWG WHT	524999	40"	GRP 9, OUT
170	J116-10 602199-001	J9-L 602092-001	24AWG WHT	524999	40"	GRP 9, GND
171	J117-10 602199-001	J9-N 602092-001	24AWG WHT	524999	40"	GRP 9, GND
172	J117-9 602199-001	J9-M 602092-001	24AWG WHT	524999	40"	GRP 9, OUT
173	J117-8 602199-001	J9-S 602092-001	24AWG WHT	524999	40"	GRP 9, IN 3
174	J117-7 602199-001	J9-P 602092-001	24AWG WHT	524999	40"	GRP 9, IN 7
175	J117-6 602199-001	J9-R 602092-001	24AWG WHT	524999	40"	GRP 9, GND
176	J117-5 602199-001	J9-T 602092-001	24AWG WHT	524999	40"	GRP 9, GND
177	J117-4 602199-001	J9-U 602092-001	24AWG WHT	524999	40"	GRP 9, GND
178	J117-3 602199-001	J9-V 602092-001	24AWG WHT	524999	40"	GRP 9, GND
179	J117-2 602199-001	J9-X 602092-001	24AWG WHT	524999	40"	GRP 9, IN 4
180	J117-1 602199-001	J9-W 602092-001	24AWG WHT	524999	40"	GRP 9, IN 8
181	J118-1 602199-001	J10-C 602092-001	24AWG WHT	524999	40"	GRP 10, IN 1
182	J118-2 602199-001	J10-A 602092-001	24AWG WHT	524999	40"	GRP 10, IN 5

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
183	J118-3 602199-001	J10-B 602092-001	24AWG WHT	524999	40"	GRP 10, GND
184	J118-4 602199-001	J10-D 602092-001	24AWG WHT	524999	40"	GRP 10, GND
185	J118-5 602199-001	J10-E 602092-001	24AWG WHT	524999	40"	GRP 10, GND
186	J118-6 602199-001	J10-F 602092-001	24AWG WHT	524999	40"	GRP 10, GND
187	J118-7 602199-001	J10-K 602092-001	24AWG WHT	524999	40"	GRP 10, IN 2
188	J118-8 602199-001	J10-H 602092-001	24AWG WHT	524999	40"	GRP 10, IN 6
189	J118-9 602199-001	J10-J 602092-001	24AWG WHT	524999	40"	GRP 10, OUT
190	J118-10 602199-001	J10-L 602092-001	24AWG WHT	524999	40"	GRP 10, GND
191	J119-10 602199-001	J10-N 602092-001	24AWG WHT	524999	40"	GRP 10, GND
192	J119-9 602199-001	J10-M 602092-001	24AWG WHT	524999	40"	GRP 10, OUT
193	J119-8 602199-001	J10-S 602092-001	24AWG WHT	524999	40"	GRP 10, IN 3
194	J119-7 602199-001	J10-P 602092-001	24AWG WHT	524999	40"	GRP 10, IN 7
195	J119-6 602199-001	J10-R 602092-001	24AWG WHT	524999	40"	GRP 10, GND
196	J119-5 602199-001	J10-T 602092-001	24AWG WHT	524999	40"	GRP 10, GND
197	J119-4 602199-001	J10-U 602092-001	24AWG WHT	524999	40"	GRP 10, GND
198	J119-3 602199-001	J10-V 602092-001	24AWG WHT	524999	40"	GRP 10, GND
199	J119-2 602199-001	J10-X 602092-001	24AWG WHT	524999	40"	GRP 10, IN 4
200	J119-1 602199-001	J10-W 602092-001	24AWG WHT	524999	40"	GRP 10, IN 8
201	J120-1 602199-001	J11-C 602092-001	24AWG WHT	524999	40"	GRP 11, IN 1
202	J120-2 602199-001	J11-A 602092-001	24AWG WHT	524999	40"	GRP 11, IN 5
203	J120-3 602199-001	J11-B 602092-001	24AWG WHT	524999	40"	GRP 11, GND
204	J120-4 602199-001	J11-D 602092-001	24AWG WHT	524999	40"	GRP 11, GND
205	J120-5 602199-001	J11-E 602092-001	24AWG WHT	524999	40"	GRP 11, GND

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, TTI	A	21793	407283	A
	DRN		SHEET 12 of 14	

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
206	J120-6 602199-001	J11-F 602092-001	24AWG WHT	524999	40"	GRP 11, GND
207	J120-7 602199-001	J11-K 602092-001	24AWG WHT	524999	40"	GRP 11, IN 2
208	J120-8 602199-001	J11-H 602092-001	24AWG WHT	524999	40"	GRP 11, IN 6
209	J120-9 602199-001	J11-J 602092-001	24AWG WHT	524999	40"	GRP 11, OUT
210	J120-10 602199-001	J11-L 602092-001	24AWG WHT	524999	40"	GRP 11, GND
211	J121-10 602199-001	J11-N 602092-001	24AWG WHT	524999	40"	GRP 11, GND
212	J121-9 602199-001	J11-M 602092-001	24AWG WHT	524999	40"	GRP 11, OUT
213	J121-8 602199-001	J11-S 602092-001	24AWG WHT	524999	40"	GRP 11, IN 3
214	J121-7 602199-001	J11-P 602092-001	24AWG WHT	524999	40"	GRP 11, IN 7
215	J121-6 602199-001	J11-R 602092-001	24AWG WHT	524999	40"	GRP 11, GND
216	J121-5 602199-001	J11-T 602092-001	24AWG WHT	524999	40"	GRP 11, GND
217	J121-4 602199-001	J11-U 602092-001	24AWG WHT	524999	40"	GRP 11, GND
218	J121-3 602199-001	J11-V 602092-001	24AWG WHT	524999	40"	GRP 11, GND
219	J121-2 602199-001	J11-X 602092-001	24AWG WHT	524999	40"	GRP 11, IN 4
220	J121-1 602199-001	J11-W 602092-001	24AWG WHT	524999	40"	GRP 11, IN 8
221	J122-1 602199-001	J12-C 602092-001	24AWG WHT	524999	40"	GRP 12, IN 1
222	J122-2 602199-001	J12-A 602092-001	24AWG WHT	524999	40"	GRP 12, IN 5
223	J122-3 602199-001	J12-B 602092-001	24AWG WHT	524999	40"	GRP 12, GND
224	J122-4 602199-001	J12-D 602092-001	24AWG WHT	524999	40"	GRP 12, GND
225	J122-5 602199-001	J12-E 602092-001	24AWG WHT	524999	40"	GRP 12, GND
226	J122-6 602199-001	J12-F 602092-001	24AWG WHT	524999	40"	GRP 12, GND
227	J122-7 602199-001	J12-K 602092-001	24AWG WHT	524999	40"	GRP 12, IN 2
228	J122-8 602199-001	J12-H 602092-001	24AWG WHT	524999	40"	GRP 12, IN 6

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-36, TTI	A	21793	407283	A
	DRN			SHEET 13 of 14

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
229	J122-9 602199-001	J12-J 602092-001	24AWG WHT	524999	40"	GRP 12, OUT
230	J122-10 602199-001	J12-L 602092-001	24AWG WHT	524999	40"	GRP 12, GND
231	J123-10 602199-001	J12-N 602092-001	24AWG WHT	524999	40"	GRP 12, GND
232	J123-9 602199-001	J12-M 602092-001	24AWG WHT	524999	40"	GRP 12, OUT
233	J123-8 602199-001	J12-S 602092-001	24AWG WHT	524999	40"	GRP 12, IN 3
234	J123-7 602199-001	J12-P 602092-001	24AWG WHT	524999	40"	GRP 12, IN 7
235	J123-6 602199-001	J12-R 602092-001	24AWG WHT	524999	40"	GRP 12, GND
236	J123-5 602199-001	J12-T 602092-001	24AWG WHT	524999	40"	GRP 12, GND
237	J123-4 602199-001	J12-U 602092-001	24AWG WHT	524999	40"	GRP 12, GND
238	J123-3 602199-001	J12-V 602092-001	24AWG WHT	524999	40"	GRP 12, GND
239	J123-2 602199-001	J12-X 602092-001	24AWG WHT	524999	40"	GRP 12, IN 4
240	J123-1 602199-001	J12-W 602092-001	24AWG WHT	524999	40"	GRP 12, IN 8

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Chapter 7

PRODUCT SUPPORT

Product Support

Racal Instruments has a complete Service and Parts Department. If you need technical assistance or should it be necessary to return your product for repair or calibration, call 1-800-722-3262. If parts are required to repair the product at your facility, call 1-949-859-8999 and ask for the Parts Department.

When sending your instrument in for repair, complete the form in the back of this manual.

For worldwide support and the office closes to your facility, refer to the Support Offices section on the following page.

Reshipment Instructions

Use the original packing material when returning the 1260-36 to Racal Instruments for calibration or servicing. The original shipping crate and associated packaging material will provide the necessary protection for safe reshipment.

If the original packing material is unavailable, contact Racal Instruments Customer Service for information.

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Support Offices

Racal Instruments, Inc.
4 Goodyear St., Irvine, CA 92618-2002
Tel: (800) 722-3262, FAX: (949) 859-7309

Racal Instruments, Ltd.
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Tel: +44 (0) 8706 080134; FAX: +44 (0) 1753 791290

Racal Systems Electronique S.A.
18 Avenue Dutartre, 78150 LeChesnay, France
Tel: +33 (1) 3923 2222; FAX: +33 (1) 3923 2225

Racal Systems Elettronica s.r.l.
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Racal Elektronik System GmbH.
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Racal Australia Pty. Ltd.
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Racal Electronics Pte. Ltd.
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Racal Instruments, Ltd.
Unit 5, 25F., Mega Trade Center, No 1, Mei Wan Road, Tsuen Wan, Hong Kong, PRC
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