1260 VXI
SWITCHING CARD

1260-30
SIGNAL / MULTIPLEXER

PUBLICATION NO. 980673-005

RACAL INSTRUMENTS

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

Racal Instruments, Ltd.
480 Bath Road, Slough, Berkshire, SL1 6BE, United Kingdom
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.
Strada 2-Palazzo C4, 20090 Milanofiori Assago, Milan, Italy
Tel: +39 (02) 5750 1796; FAX +39 (02) 5750 1828

Racal Elektronik System GmbH.
Frankenforster Strasse 21, 51427 Bergisch Gladbach, Germany
Tel:+49 2204 92220; FAX: +49 2204 21491

Racal Australia Pty. Ltd.
3 Powells Road, Brookvale, NSW 2100, Australia
Tel: +61 (2) 9936 7000, FAX: +61 (2) 9936 7036

Racal Electronics Pte. Ltd.
26 Ayer Rajah Crescent, 04-06/07 Ayer Rajah Industrial Estate, Singapore 0513.
Tel: +65 7792200, FAX: +65 7785400

Racal Instruments, Ltd.
Unit 5, 25F., Mega Trade Center, No 1, Mei Wan Road, Tsuen Wan, Hong Kong, PRC
Tel: +852 2405 5500, FAX: +852 2416 4335

http://www.racalinst.com

RACAL

PUBLICATION DATE: April 6, 2000

WARRANTY STATEMENT

All Racal Instruments, Inc. products are designed and manufactured to exacting standards and in full conformance to Racal's ISO 9001 procedures.

For the specific terms of your standard warranty, or optional extended warranty or service agreement, contact your Racal customer service advisor. Please have the following information available to facilitate service.

1. Product serial number
2. Product model number
3. Your company and contact information

You may contact your customer service advisor by:

E-Mail:	Helpdesk@racalinstruments.com	
Telephone:	+1 800 722 3262	(USA)
	+44(0) 8706 080134	(UK)
	+852 2405 5500	(Hong Kong)
Fax:	+1 949 859 7309	(USA)
	+44(0) 1628 662017	(UK)
	+852 2416 4335	(Hong Kong)

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.

PROPRIETARY NOTICE

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.

Control Information for the 1260-30A

The following information describes the control-register-to-relay-channel mapping for a 1260-30A Relay Module. This information may be used to control a 1260-30A when using a 1260-01T in the register-based mode of operation.

Each relay on this module is controlled by setting or clearing a single bit within a Control Register. Control Registers on the module operate 8 channels simultaneously. There are eight control bits per Control Register. Setting the bit to a 1 closes the relay; setting the bit to a 0 opens the relay.

The table below shows the mapping from logical channels to control bits. The logical channels are used when operating the relay module in message-based mode. The control bits within the Control Registers are used to operate the module in register-based mode.

Each Control Register is located 2 addresses from the previous Control Register. That is, each Control Register is located at an odd address. This is shown in Table 2-2 of the 1260-01T manual. Control Register 0 is located at the “Base A24 Address” for the module. Consult the “Register-Based Operation” Section of Chapter 2 of the 1260-01T manual for a description of calculating control register addresses

Channel	Control Register	Control Bit
0	0	0
1	0	1
2	0	2
3	0	3
4	0	4
5	0	5
6	0	6
7	0	7
8	1	0
9	1	1
10	1	2
11	1	3
12	1	4
13	1	5
14	1	6
15	1	7
16	2	0
17	2	1
18	2	2
19	2	3
20	2	4
21	2	5
22	2	6
23	2	7
24	3	0
25	3	1
26	3	2
27	3	3
28	3	4
29	3	5
30	3	6
31	3	7
32	4	0
33	4	1
34	4	2
35	4	3
36	4	4
37	4	5
38	4	6
39	4	7

Control Information for the 1260-30B

The following information describes the control-register-to-relay-channel mapping for a 1260-30B Relay Module. This information may be used to control a 1260-30B when using a 1260-01T in the register-based mode of operation.

Each relay on this module is controlled by setting or clearing a single bit within a Control Register. Control Registers on the module operate 8 channels simultaneously. There are eight control bits per Control Register. Setting the bit to a 1 closes the relay; setting the bit to a 0 opens the relay.

The table below shows the mapping from logical channels to control bits. The logical channels are used when operating the relay module in message-based mode. The control bits within the Control Registers are used to operate the module in register-based mode.

Each Control Register is located 2 addresses from the previous Control Register. That is, each Control Register is located at an odd address. This is shown in Table 2-2 of the 1260-01T manual. Control Register 0 is located at the "Base A24 Address" for the module. Consult the "Register-Based Operation" Section of Chapter 2 of the 1260-01T manual for a description of calculating control register addresses

Channel	Control Register	Control Bit
0	0	0
1	0	1
2	0	2
3	0	3
4	0	4
5	0	5
6	0	6
7	0	7
8	1	0
9	1	1
10	1	2
11	1	3
12	1	4
13	1	5
14	1	6
15	1	7
16	2	0
17	2	1
18	2	2
19	2	3
100	2	4
101	2	5
102	2	6
103	2	7
104	3	0
105	3	1
106	3	2
107	3	3
108	3	4
109	3	5
110	3	6
111	3	7
112	4	0
113	4	1
114	4	2
115	4	3
116	4	4
117	4	5
118	4	6
119	4	7

Control Information for the 1260-30C

The following information describes the control-register-to-relay-channel mapping for a 1260-30C Relay Module. This information may be used to control a 1260-30C when using a 1260-01T in the register-based mode of operation.

Each relay on this module is controlled by setting or clearing a single bit within a Control Register. Control Registers on the module operate 8 channels simultaneously. There are eight control bits per Control Register. Setting the bit to a 1 closes the relay; setting the bit to a 0 opens the relay.

The table below shows the mapping from logical channels to control bits. The logical channels are used when operating the relay module in message-based mode. The control bits within the Control Registers are used to operate the module in register-based mode.

Each Control Register is located 2 addresses from the previous Control Register. That is, each Control Register is located at an odd address. This is shown in Table 2-2 of the 1260-01T manual. Control Register 0 is located at the "Base A24 Address" for the module. Consult the "Register-Based Operation" Section of Chapter 2 of the 1260-01T manual for a description of calculating control register addresses

Channel	Control Register	Control Bit
0	0	0
1	0	1
2	0	2
3	0	3
4	0	4
5	0	5
6	0	6
7	0	7
8	1	0
9	1	1
100	1	2
101	1	3
102	1	4
103	1	5
104	1	6
105	1	7
106	2	0
107	2	1
108	2	2
109	2	3
200	2	4
201	2	5
202	2	6
203	2	7
204	3	0
205	3	1
206	3	2
207	3	3
208	3	4
209	3	5
300	3	6
301	3	7
302	4	0
303	4	1
304	4	2
305	4	3
306	4	4
307	4	5
308	4	6
309	4	7

Control Information for the 1260-30D

The following information describes the control-register-to-relay-channel mapping for a 1260-30D Relay Module. This information may be used to control a 1260-30D when using a 1260-01T in the register-based mode of operation.

Each relay on this module is controlled by setting or clearing a single bit within a Control Register. Control Registers on the module operate 8 channels simultaneously. There are eight control bits per Control Register. Setting the bit to a 1 closes the relay; setting the bit to a 0 opens the relay.

The table below shows the mapping from logical channels to control bits. The logical channels are used when operating the relay module in message-based mode. The control bits within the Control Registers are used to operate the module in register-based mode.

Each Control Register is located 2 addresses from the previous Control Register. That is, each Control Register is located at an odd address. This is shown in Table 2-2 of the 1260-01T manual. Control Register 0 is located at the "Base A24 Address" for the module. Consult the "Register-Based Operation" Section of Chapter 2 of the 1260-01T manual for a description of calculating control register addresses

Channel	Control Register	Control Bit
0	0	0
1	0	1
2	0	2
3	0	3
4	0	4
100	0	5
101	0	6
102	0	7
103	1	0
104	1	1
200	1	2
201	1	3
202	1	4
203	1	5
204	1	6
300	1	7
301	2	0
302	2	1
303	2	2
304	2	3
400	2	4
401	2	5
402	2	6
403	2	7
404	3	0
500	3	1
501	3	2
502	3	3
503	3	4
504	3	5
600	3	6
601	3	7
602	4	0
603	4	1
604	4	2
700	4	3
701	4	4
702	4	5
703	4	6
704	4	7

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Chapter 1

MODULE SPECIFICATION

1260-30 Module Specification

The 1260-30 Signal/Multiplexer Scanner Module is a 1 X 40 multiplexer. It switches two lines per channel, and has the capability of being configured as two 1 X 20 matrices, four 1 X 10 matrices or eight 1 X 5 matrices (refer to the diagram in Figure 1-2).

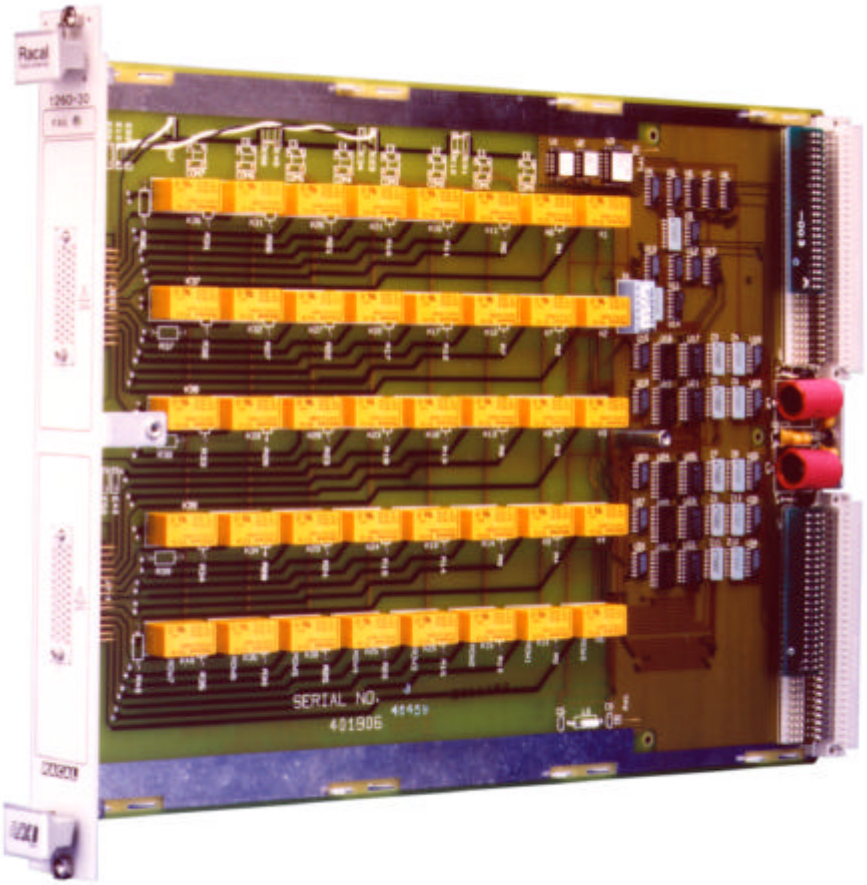

Figure 1-1, 1260-30 Signal/Multiplexer Scanner Module

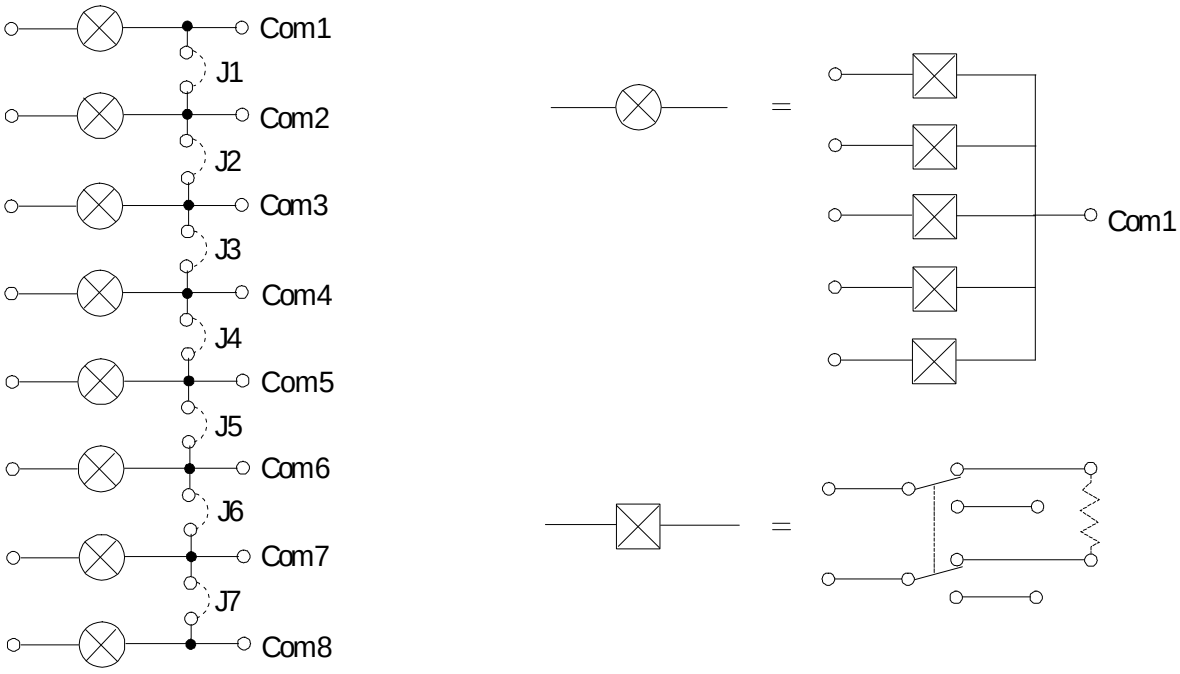

Figure 1-2, 1260-30 Relay Matrix

Specifications

Maximum Switchable Voltage (Terminal-Terminal or Terminal-Chassis	220VDC, 250VAC RMS
Maximum Switchable Current	2A DC or RMS
Maximum Switchable Power Per Channel	60W DC, 62.5VA AC

DC Performance

Isolation	$>10^9\Omega$

AC Performance

Capacitance	
Open Channel	< 40pF
Channel-Chassis	< 60pF
Hi-Lo	< 280pF
Bandwidth (-3dB, 50Ω)	10MHz (Typical)
Insertion Loss (50Ω)	< 0.1dB @ 100kHz < 0.1db @ 1MHz < 1.3dB @ 10MHz
Crosstalk (50Ω)	< -55dB @ 100kHz < -45dB @ 1MHz < -30dB @ 10MHz

General

Cooling Airflow Backpressure	 4.0 liters/sec, 0.5mm H_20
Power Requirements +5V, I_{pm} +24V, I_{dm}	 0.4A (2.8A with Option 01 installed) 10mA per energized relay
User Connector	SMPL 4 FOTO LB
Weight	2.59lbs (1.17Kg) 2.87lbs (1.29Kg) with Option 01

Minimum Option 01 Firmware

Revision 17.1

Ordering Information

Model Number	Description	Part Number
1260-30A	2-wire, One, 1x40 Multiplexer	404767-001
1260-30B	2-wire, Two, 1x20 Multiplexer	404767-002
1260-30C	2-wire, Four, 1x10 Multiplexer	404767-003
1260-30D	2-wire, Eight, 1x5 Multiplexer	404767-004

Safety

Refer to the “FOR YOUR SAFETY” page preceding the Table of Contents. Following all NOTES, CAUTIONS, and WARNINGS to ensure personal safety and prevent damage to the instrument.

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 servicing, 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.

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Chapter 2

INSTALLATION INSTRUCTIONS

Unpacking and Inspection

1. 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.

2. Remove the instrument from its carton, preserving the factory packaging as much as possible. Inspect the switching module for any defect or damage

3. Immediately notify the carrier if any damage is apparent.

4. 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

1. Use the original packing material when returning the switching module to Racal Instruments for servicing. The original shipping carton and the instrument's plastic foam will provide the necessary support for safe reshipment.

2. If the original packing material is unavailable, wrap the switching module in plastic sheeting and use plastic spray foam to surround and protect the instrument.

3. Reship in either the original or a new shipping carton.

Option 01 Installation

Installation of the Option 01 into the 1260-30 is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

Module Installation

Installation of the 1260-30 Switching Module into a VXI mainframe, including the setting of DIP switches, is described in the Installation section of the 1260 Series VXI Switching Cards Manual. Configuration of the PCBA and setting DIP switches SW1-5 and SW1-6 are described in the following sections.

Configuration Settings

The 1260-30 is configurable as 1x40, two 1x20, four 1x10, or eight 1x5 multiplexers. The configuration is set by the installation of 24 gage jumpers to the board as follows:

Model	Configuration	Jumpers
1260-30A	One 1X40	All
1260-30B	Two 1X20	J1, J2, J3, J5, J6. and J7
1260-30C	Four 1X10	J1, J3, J5, and J7
1260-30D	Eight 1X5	None

Note this illustrates the principle of the 1260-30 configuration setting. The connections to be made on the PCB are given on the following pages.

1260-30A

The following connections are required to configure the 1260-30 as a 1260-30A. To configure the 1260-30A from any other 1260-30 configuration, remove all connections not on this list, and install 22 gauge solid jumpers, listed below, unless otherwise specified.

COM 01 to E01	COM 22 to E22	COM 51 to E51
COM 02 to E02	COM 31 to E31	COM 52 to E52
COM 11 to E11	COM 32 to E32	COM 61 to E61
COM 12 to E12	COM 41 to E41	COM 62 to E62
COM 21 to E21	COM 42 to E42	COM 71 to E71

COM 72 to E72
W1-1 to W1-2
E01-1 to E12-1
E01-2 to E12-2
E23-2 to E34-1
E45-1 to E56-1
E45-2 to E56-2

*E67 1 to E00-1 Teflon stranded, 24 gauge, white
E67-2 to E00-2 Teflon stranded, 24 gauge, black

* Twisted Pair

1260-30B

The following connections are required to configure the 1260-30 as a 1260-30B. To configure the 1260-30B from any other 1260-30 configuration, remove all connections not on this list and install 22 gauge solid jumpers, listed, below unless otherwise specified.

COM 01 to E01	COM 22 to E22	COM 51 to E51
COM 02 to E02	COM 31 to E31	COM 52 to E52
COM 11 to E11	COM 32 to E32	COM 61 to E61
COM 12 to E12	COM 4l to E41	COM 62 to E62
COM 21 to E21	COM 42 to E42	COM71 to E72

COM 72 to E72
W1-1 to W1-2
E01-1 to E12-1
E01-2 to E12-2
E45-1 to E56-1
E45-2 to E56-2

*E67-1 to E10-1 Teflon stranded, 24 gauge, white
E67-2 to E10-2 Teflon stranded, 24 gauge, black

*E23-1 to E00-1 Teflon stranded, 24 gauge, white
E23-2 to E00-2 Teflon stranded, 24 gauge, black

* Twisted Pair

1260-30C

The following connections are required to configure the 1260-30 as a 1260-30C. To configure the 1260-30C from any other 1260-30 configuration, remove all connections not on this list and install 22 gauge solid jumpers, listed below, unless otherwise specified.

COM 01 to E10	COM 31 to E31	COM 61 to E61
COM 02 to E02	COM 32 to E32	COM 62 to E62
COM 11 to E11	COM 41 to E41	COM 71 to E71
COM 12 to E12	COM 42 to E42	COM 72 to E72
COM 21 to E21	COM 51 to E5l	W1-1 to Wl-2
COM 22 to E22	COM 52 to E52	

*E01-1 to EOO-1 Teflon stranded, 24 gauge, white
E01-2 to EOO-2 Teflon stranded, 24 gauge, black

*E23-1 to E1O-1 Teflon stranded, 24 gauge, white
E23-2 to ElO-2 Teflon stranded, 24 gauge, black

*E45-1 to E20-1 Teflon stranded, 24 gauge, white
E45-2 to E20-2 Teflon stranded, 24 gauge, black

*E67-1 to E30-1 Teflon stranded, 24 gauge, white
E67-2 to E30-2 Teflon stranded, 24 gauge, black

* Twisted Pair

1260-30D

The following connections are required to configure the 1260-30 as a 1260-30D. To configure the 1260-30B from any other 1260-30 configuration, remove all connections not on this list and install 22 gauge solid jumpers, listed below, unless otherwise specified.

*COM 01 to E00-1	Teflon stranded, 24 gauge, white
COM 02 to E00-2	Teflon stranded, 24 gauge, black
*COM 11 to E10-1	Teflon stranded, 24 gauge, white
COM 12 to E10-2	Teflon stranded, 24 gauge, black
*COM 21 to E20-1	Teflon stranded, 24 gauge, white
COM 22 to E20-2	Teflon stranded, 24 gauge, black
*COM 31 to E30-1	Teflon stranded, 24 gauge, white
COM 32 to E30-2	Teflon stranded, 24 gauge, black
*COM 41 to E40-1	Teflon stranded, 24 gauge, white
COM 42 to E40-2	Teflon stranded, 24 gauge, black
*COM 51 to E50-1	Teflon stranded, 24 gauge, white
COM 52 to E50-2	Teflon stranded, 24 gauge, black
*COM 61 to E60-1	Teflon stranded, 24 gauge, white
COM 62 to E60-2	Teflon stranded, 24 gauge, black
*COM 71 to E70-1	Teflon stranded, 24 gauge, white
COM 72 to E70-2	Teflon stranded, 24 gauge, black
W1-1 to W1-2	

* Twisted Pair

1260-30 ID Byte

Each configuration of the 1260-30 will respond to different sets of values for <group number> and <channel>. The set of values is controlled by switches 5 and 6 on DIP switch S1 on the PCB. The switch settings that correspond to the four configurations are as follows:

Model	Configuration	S1 Switches 5	6
1260-30A	One 1X40	Off	Off
1260-30B	Two 1X20	On	Off
1260-30C	Four 1X10	Off	On
1260-30D	Eight 1X5	On	On

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Chapter 3

MODULE SPECIFIC SYNTAX

1260-30 Module Specific Syntax

The Module Specific Syntax for the 1260-30 is required in the use of the OPEN and CLOSE commands. It will also appear in data output by the Master in response to the PDATAOUT and PSETUP commands.

Syntax

The Module Specific Syntax for the 1260-30 Signal Multiplexer/Scanner module is as follows:

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

where <module address> is the address.

<group number> is the number of switching groups implemented in the module. The range of values for <group number> is up to 0-7

<channel> is the path in the group to be switched. For 1260-30 configurations containing more than one group, the values for <channel> are repeated for each group.

NOTE

The <module address> used here is NOT the VXIbus defined logical address of the 1260 Master. It is peculiar 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 valid values of <group number> and <channel> for the different 1260-30 configurations are as follows:

Configuration	<channel>	<group number>s
One 1 x 40	00-39	0
Two 1 x 20	00-19	0,1
Four I x 10	00-09	0,1,2, and 3
Eight 1 x 5	00-04	0,1,2,3,4,5,6, and 7

Refer to Figure 3-1 for connector pin configurations, and to Figure 3-2 for the command codes required to open and close the various <channels> for the four configurations.

CLOSE Command

The Module Specific Syntax for the CLOSE command is the same as for the OPEN command.

Example: OPEN 3.002

This open command will open channel 2 in Group 0 on the 1260-30 module at switch card address 3.

PSETUP Command

The PSETUP command causes the specified module setup to be transmitted to the VXI Controller. The syntax used is:

PSETUP <module address>[;<module address>] [;<module address>] where <module address> is the switch card address.

The responses to the PSETUP command for the 1260-30A Signal Multiplexer/Scanner is as follows:

<module address>. 1260-30A 40-channel Signal Multiplexer/Scanner Module
<module address>.BBM
<module address>.END

1260-30B:

<module address>. 1 260-30B 20-channel Signal Multiplexer/Scanner Module
<module address>.BBM
<module address>.END

1 260-30C:

<module address>. I 260-30C 10-channel Signal Multiplexer/Scanner Module
<module address>.BBM
<module address>.END

I 260-30D:

<module address>. 1260-30D 5-channel Signal Multiplexer/Scanner Module
<module address>.BBM
<module address>.END

The response to the PSETUP command consists of a header on the first line. The header describes the model number followed by an A or B designating four or two-wire, respectively. The next line designates the setup mode for scanning which, by default, is Break-Before-Make (BBM). The last line containing the 'END[1]' characters denotes no more information to report.

PDATAOUT Command

The PDATAOUT command causes the specified module to transmit the CLOSED state of the relays within the switching module to the 1260 Controller. The syntax used is:

PDATAOUT <module address>[.<module address>] [;<module address>]

The responses to the PDATAOUT command is as follows:

1 260-30A:

<module address>. 1260-30A 40-channel Signal Multiplexer/Scanner Module
<module address>.<channel>[,<channel>] [,<channel>]
<module address>.END

1260-30B:

<module address>.1260-30B 20-channel Signal Multiplexer/Scanner Module
<module address>.<channel>[,<channel>] [,<channel>]
<module address>.END

1260-30C:

<module address>. 1260-30C 10-channel Signal Multiplexer/Scanner Module
<module address>.<channel>[,<channel>] [,<channel>]
<module address>.END

1260-30D:

<module address>. 1260-30D 5-channel Signal Multiplexer/Scanner Module
<module ad dress>.<channel>[,<channel [,<channel>]
<module address>.END

The response to the PDATAOUT command consists of a header on the first line as with the PSETUP response. The next line details the channels currently closed on the module and is blank when no channels are closed. Again, the last line is denoted by the "END" string of characters.

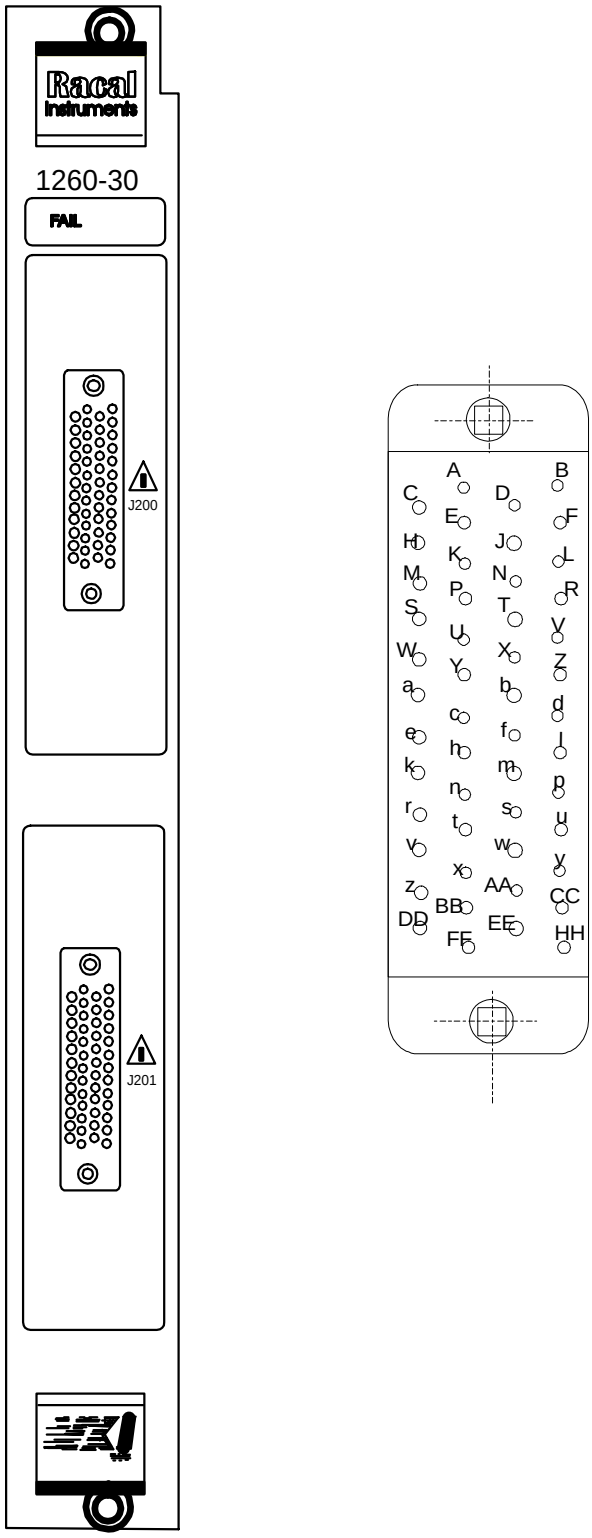

Figure 3-1, 1260-30 J200 and J201 Connector Pin Configuration

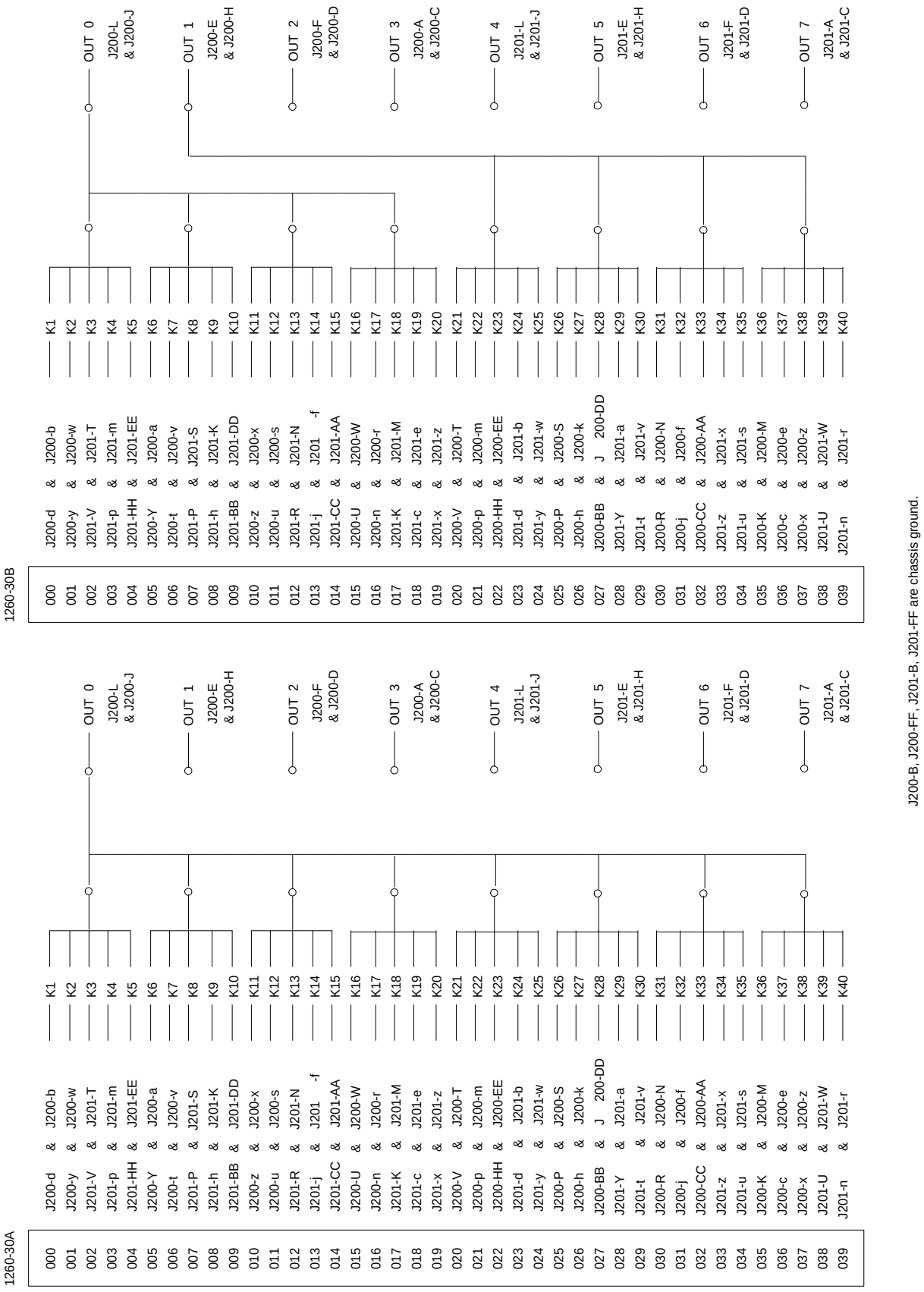

Figure 3-2, 1260-30 Configurations and Command Codes

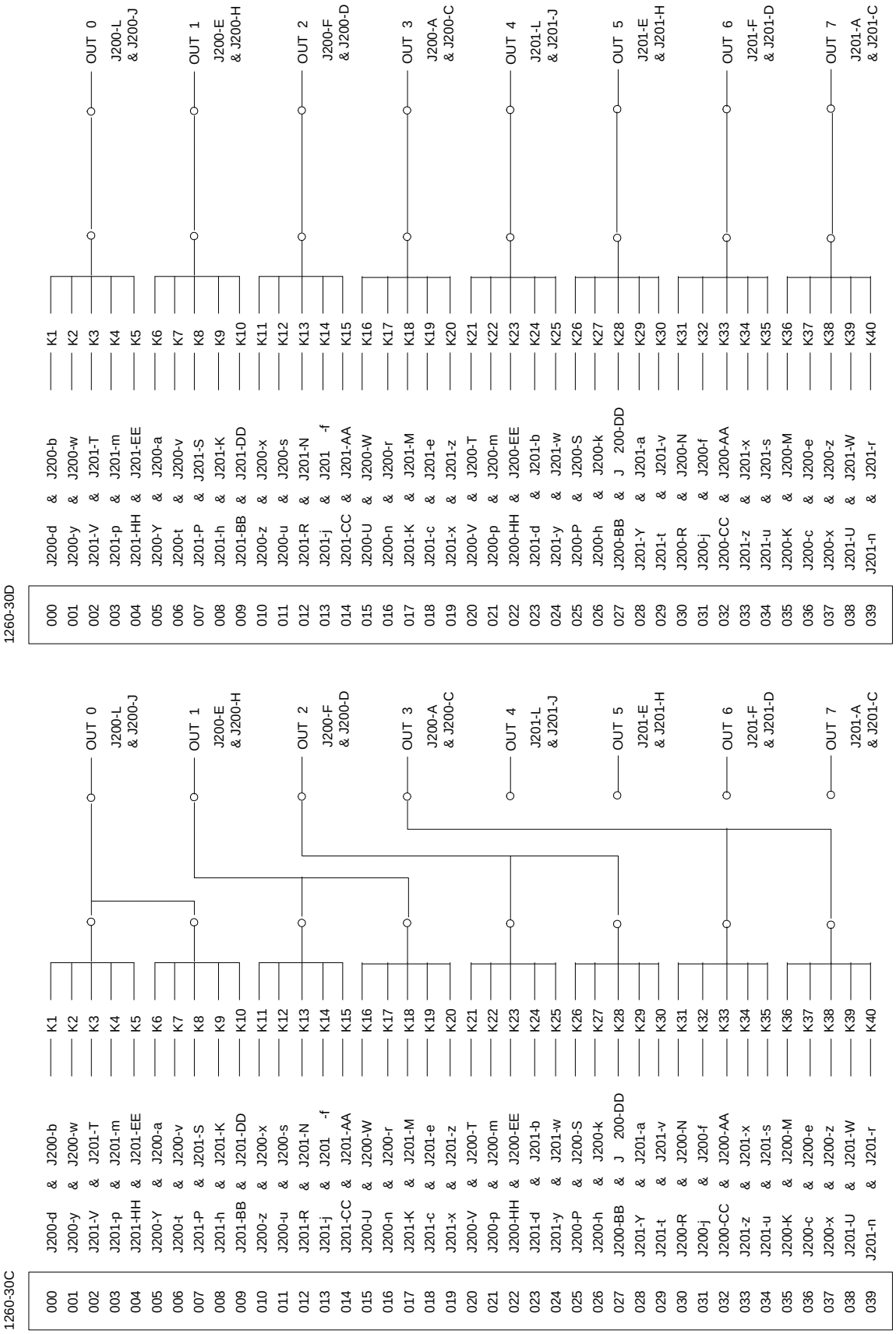

Figure 3-2, 1260-30 Configurations and Command Codes (continued)

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Chapter 4
DRAWINGS

404767-001	Final Assy, 1260-30A	4-3
404767-002	Final Assy, 1260-30B	4-5
404767-003	Final Assy, 1260-30C	4-7
404767-004	Final Assy, 1260-30D	4-9
401906	PCB Assy, 1260-30	4-11
431906	Schematic, 1260-30	4-12

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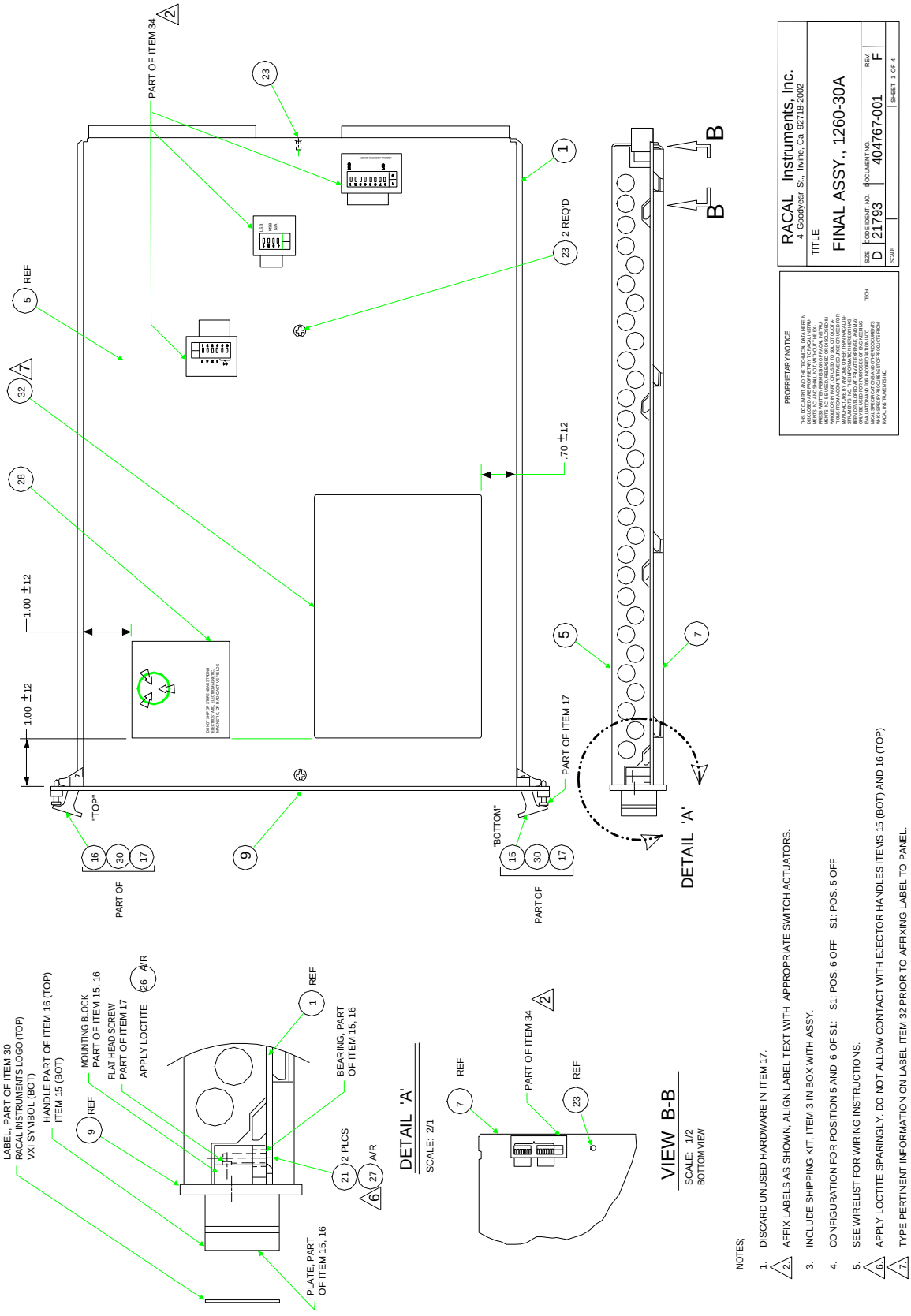

NOTES;

1. DISCARD UNUSED HARDWARE IN ITEM 17.
2. AFFIX LABELS AS SHOWN, ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
3. INCLUDE SHIPPING KIT, ITEM 3 IN BOX WITH ASSY.
4. CONFIGURATION FOR POSITION 5 AND 6 OF S1: S1: POS. 6 OFF S1: POS. 5 OFF
5. SEE WIRELIST FOR WIRING INSTRUCTIONS.
6. APPLY LOCTITE SPARINGLY. DO NOT ALLOW CONTACT WITH EJECTOR HANDLES ITEMS 15 (BOT) AND 16 (TOP)
7. TYPE PERTINENT INFORMATION ON LABEL ITEM 32 PRIOR TO AFFIXING LABEL TO PANEL.

WIRE LIST

FROM	TO	CONDUCTOR TYPE GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
COM0-1	E0-1	BARE COPPER, 22G	500022	A/R	BUS
COM0-2	E0-2	BARE COPPER, 22G	500022	A/R	BUS
COM1-1	E1-1	BARE COPPER, 22G	500022	A/R	BUS
COM1-2	E1-2	BARE COPPER, 22G	500022	A/R	BUS
COM2-1	E2-1	BARE COPPER, 22G	500022	A/R	BUS
COM2-2	E2-2	BARE COPPER, 22G	500022	A/R	BUS
COM3-1	E3-1	BARE COPPER, 22G	500022	A/R	BUS
COM3-2	E3-2	BARE COPPER, 22G	500022	A/R	BUS
COM4-1	E4-1	BARE COPPER, 22G	500022	A/R	BUS
COM4-2	E4-2	BARE COPPER, 22G	500022	A/R	BUS
COM5-1	E5-1	BARE COPPER, 22G	500022	A/R	BUS
COM5-2	E5-2	BARE COPPER, 22G	500022	A/R	BUS
COM6-1	E6-1	BARE COPPER, 22G	500022	A/R	BUS
COM6-2	E6-2	BARE COPPER, 22G	500022	A/R	BUS
COM7-1	E7-1	BARE COPPER, 22G	500022	A/R	BUS
COM7-2	E7-2	BARE COPPER, 22G	500022	A/R	BUS
E01-1	E12-1	BARE COPPER, 22G	500022	A/R	BUS
E01-2	E12-2	BARE COPPER, 22G	500022	A/R	BUS
E23-1	E34-1	BARE COPPER, 22G	500022	A/R	BUS
E23-2	E34-2	BARE COPPER, 22G	500022	A/R	BUS
E45-1	E56-1	BARE COPPER, 22G	500022	A/R	BUS
E45-2	E56-2	BARE COPPER, 22G	500022	A/R	BUS
E67-1	E00-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
E67-2	E00-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR

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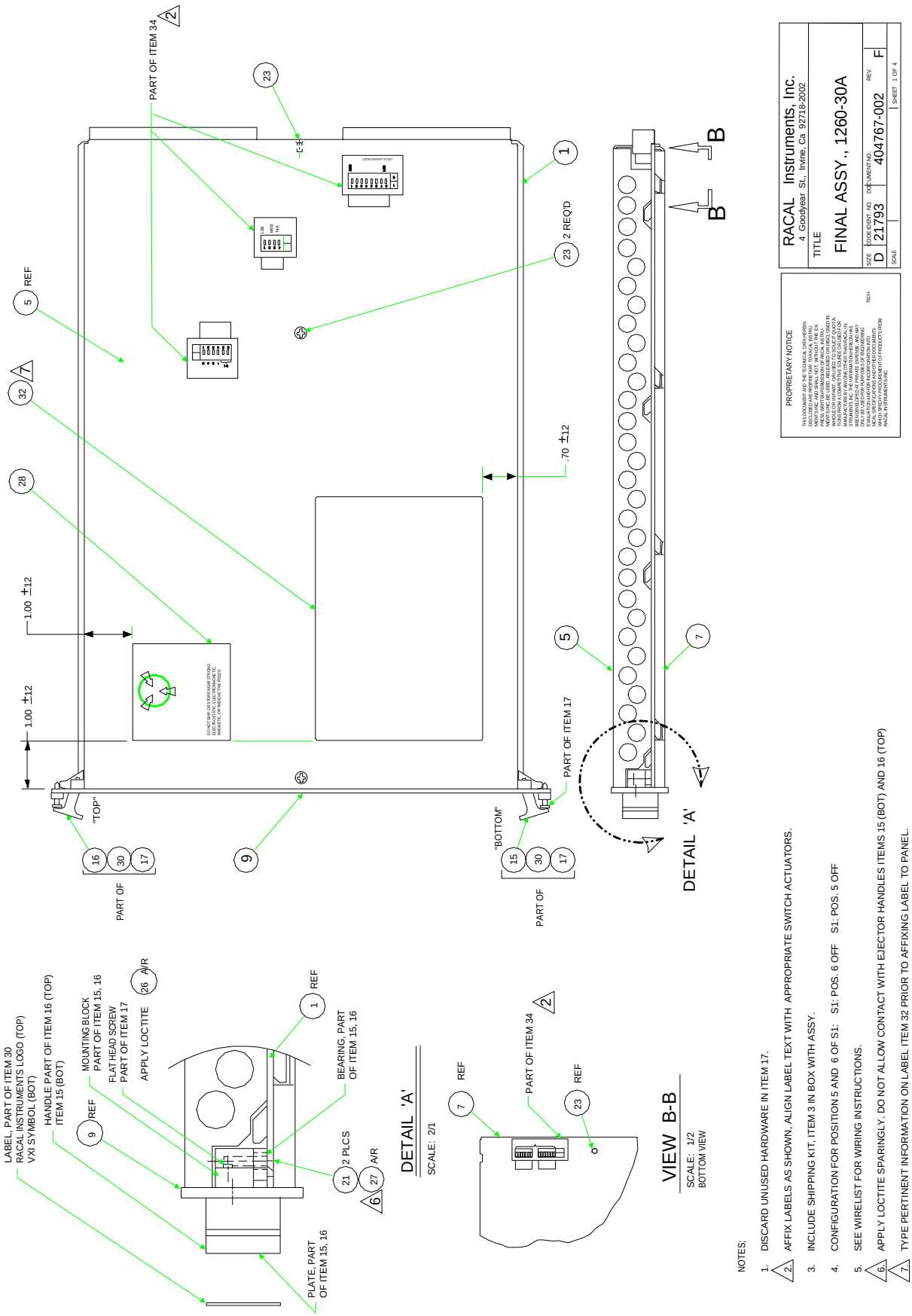
DOCUNENT TITLE	SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV
FINAL ASSY., 1260-30A	**A**	**21793**	**404767-001**	**F**
	DRN		SHT	



NOTES:

1. DISCARD UNUSED HARDWARE IN ITEM 17.
2. AFFIX LABELS AS SHOWN. ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
3. INCLUDE SHIPPING KIT, ITEM 3 IN BOX WITH ASSY.
4. CONFIGURATION FOR POSITION 5 AND 6 OF S1: S1: POS. 6 OFF S1: POS. 5 OFF
5. SEE WIRELIST FOR WIRING INSTRUCTIONS.
6. APPLY LOCTITE SPARINGLY. DO NOT ALLOW CONTACT WITH EJECTOR HANDLES ITEMS 15 (BOT) AND 16 (TOP)
7. TYPE PERTINENT INFORMATION ON LABEL ITEM 32 PRIOR TO AFFIXING LABEL TO PANEL.

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TITLE
FINAL ASSY., 1260-30A

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
D	21793	404767-002	F

SCALE | SHEET 1 OF 4

WIRE LIST

FROM	TO	CONDUCTOR TYPE GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
COM0-1	E0-1	BARE COPPER, 22G	500022	A/R	BUS
COM0-2	E0-2	BARE COPPER, 22G	500022	A/R	BUS
COM1-1	E1-1	BARE COPPER, 22G	500022	A/R	BUS
COM1-2	E1-2	BARE COPPER, 22G	500022	A/R	BUS
COM2-1	E2-1	BARE COPPER, 22G	500022	A/R	BUS
COM2-2	E2-2	BARE COPPER, 22G	500022	A/R	BUS
COM3-1	E3-1	BARE COPPER, 22G	500022	A/R	BUS
COM3-2	E3-2	BARE COPPER, 22G	500022	A/R	BUS
COM4-1	E4-1	BARE COPPER, 22G	500022	A/R	BUS
COM4-2	E4-2	BARE COPPER, 22G	500022	A/R	BUS
COM5-1	E5-1	BARE COPPER, 22G	500022	A/R	BUS
COM5-2	E5-2	BARE COPPER, 22G	500022	A/R	BUS
COM6-1	E6-1	BARE COPPER, 22G	500022	A/R	BUS
COM6-2	E6-2	BARE COPPER, 22G	500022	A/R	BUS
COM7-1	E7-1	BARE COPPER, 22G	500022	A/R	BUS
COM7-2	E7-2	BARE COPPER, 22G	500022	A/R	BUS
E01-1	E12-1	BARE COPPER, 22G	500022	A/R	BUS
E01-2	E12-2	BARE COPPER, 22G	500022	A/R	BUS
E45-1	E56-1	BARE COPPER, 22G	500022	A/R	BUS
E45-2	E56-2	BARE COPPER, 22G	500022	A/R	BUS
E23-1	E00-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
E23-2	E00-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
E67-1	E10-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
E67-2	E10-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR

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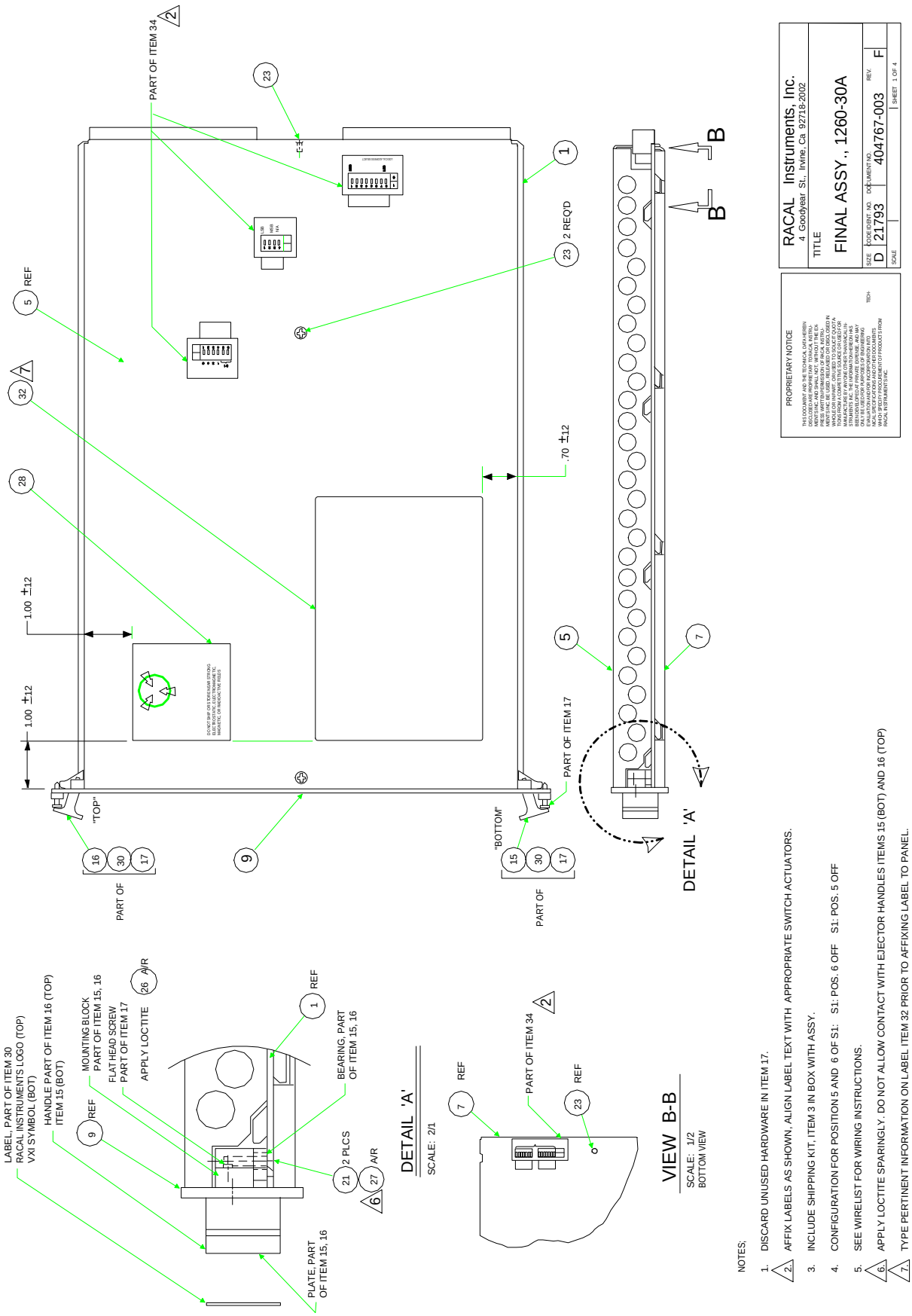
DOCUNENT TITLE	SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV
FINAL ASSY., 1260-30B	**A**	**21793**	**404767-002**	**F**
	DRN		SHT	



NOTES:

1. DISCARD UNUSED HARDWARE IN ITEM 17.
2. AFFIX LABELS AS SHOWN. ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
3. INCLUDE SHIPPING KIT, ITEM 3 IN BOX WITH ASSY.
4. CONFIGURATION FOR POSITION 5 AND 6 OF S1: S1: POS. 6 OFF S1: POS. 5 OFF
5. SEE WIRELIST FOR WIRING INSTRUCTIONS.
6. APPLY LOCTITE SPARINGLY. DO NOT ALLOW CONTACT WITH EJECTOR HANDLES ITEMS 15 (BOT) AND 16 (TOP)
7. TYPE PERTINENT INFORMATION ON LABEL ITEM 32 PRIOR TO AFFIXING LABEL TO PANEL.

RACAL Instruments, Inc.
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TITLE
FINAL ASSY., 1260-30A

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
D	21793	404767-003	F

SCALE | SHEET 1 OF 4

WIRE LIST

FROM	TO	CONDUCTOR TYPE GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
COM0-1	E0-1	BARE COPPER, 22G	500022	A/R	BUS
COM0-2	E0-2	BARE COPPER, 22G	500022	A/R	BUS
COM1-1	E1-1	BARE COPPER, 22G	500022	A/R	BUS
COM1-2	E1-2	BARE COPPER, 22G	500022	A/R	BUS
COM2-1	E2-1	BARE COPPER, 22G	500022	A/R	BUS
COM2-2	E2-2	BARE COPPER, 22G	500022	A/R	BUS
COM3-1	E3-1	BARE COPPER, 22G	500022	A/R	BUS
COM3-2	E3-2	BARE COPPER, 22G	500022	A/R	BUS
COM4-1	E4-1	BARE COPPER, 22G	500022	A/R	BUS
COM4-2	E4-2	BARE COPPER, 22G	500022	A/R	BUS
COM5-1	E5-1	BARE COPPER, 22G	500022	A/R	BUS
COM5-2	E5-2	BARE COPPER, 22G	500022	A/R	BUS
COM6-1	E6-1	BARE COPPER, 22G	500022	A/R	BUS
COM6-2	E6-2	BARE COPPER, 22G	500022	A/R	BUS
COM7-1	E7-1	BARE COPPER, 22G	500022	A/R	BUS
COM7-2	E7-2	BARE COPPER, 22G	500022	A/R	BUS
E01-1 E01-2	E00-1 E00-2	TEF, STR, 24GA, WHT TEF, STR, 24GA, BLK	500132 500132	A/R A/R	TWISTED PAIR
E23-1 E23-2	E10-1 E10-2	TEF, STR, 24GA, WHT TEF, STR, 24GA, BLK	500132 500132	A/R A/R	TWISTED PAIR
E45-1 E45-2	E20-1 E20-2	TEF, STR, 24GA, WHT TEF, STR, 24GA, BLK	500132 500132	A/R A/R	TWISTED PAIR
E67-1 E67-2	E30-1 E30-2	TEF, STR, 24GA, WHT TEF, STR, 24GA, BLK	500132 500132	A/R A/R	TWISTED PAIR

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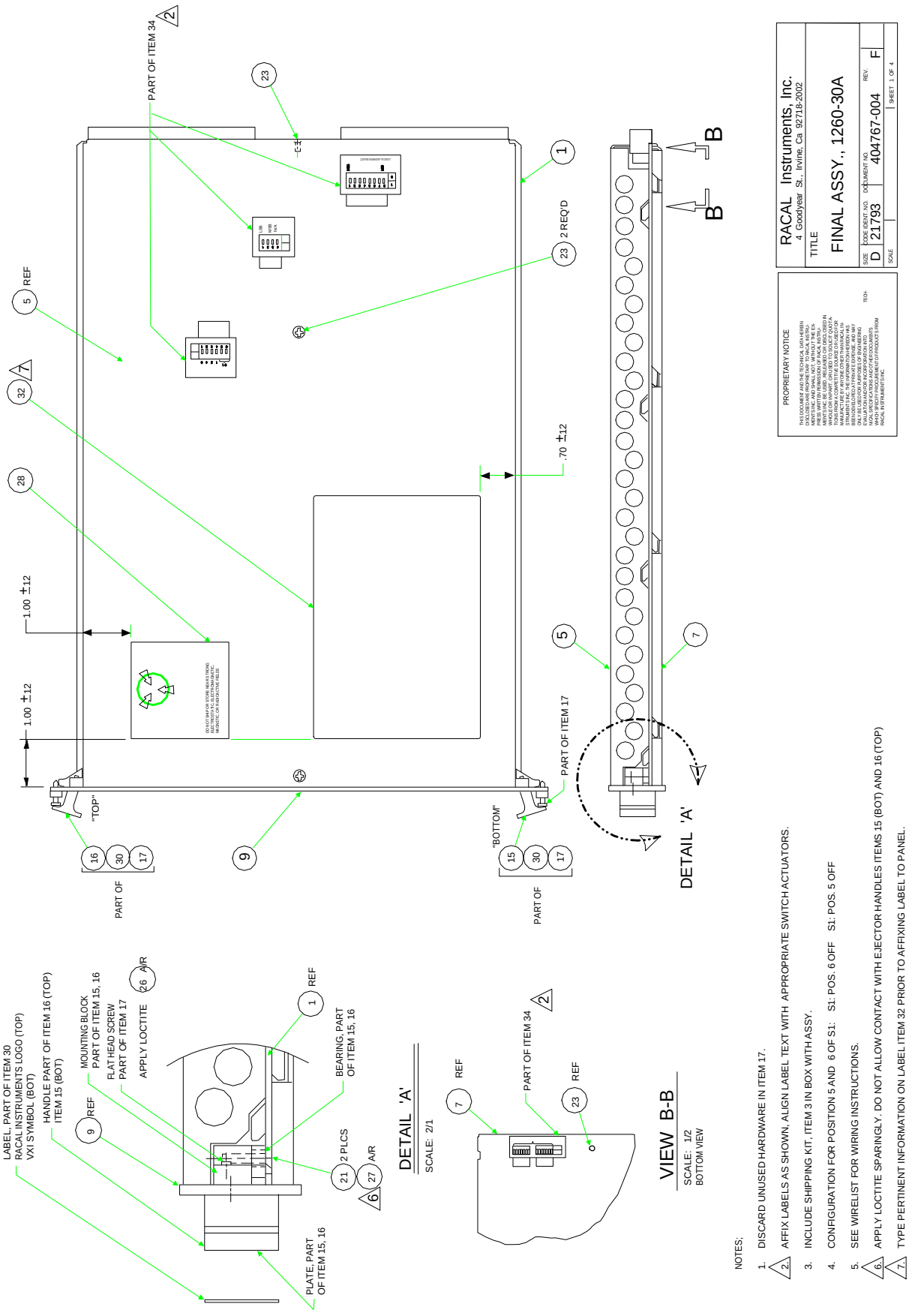
DOCUNENT TITLE	SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV
FINAL ASSY., 1260-30C	**A**	**21793**	**404767-003**	**F**
	DRN		SHT	



NOTES;

1. DISCARD UNUSED HARDWARE IN ITEM 17.
2. AFFIX LABELS AS SHOWN, ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
3. INCLUDE SHIPPING KIT, ITEM 3 IN BOX WITH ASSY.
4. CONFIGURATION FOR POSITION 5 AND 6 OF S1: S1: POS. 6 OFF S1: POS. 5 OFF
5. SEE WIRELIST FOR WIRING INSTRUCTIONS.
6. APPLY LOCTITE SPARINGLY. DO NOT ALLOW CONTACT WITH EJECTOR HANDLES ITEMS 15 (BOT) AND 16 (TOP)
7. TYPE PERTINENT INFORMATION ON LABEL ITEM 32 PRIOR TO AFFIXING LABEL TO PANEL.

WIRE LIST

FROM	TO	CONDUCTOR TYPE GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
COM0-1	E00-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM0-2	E00-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
COM1-1	E10-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM1-2	E10-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
COM2-1	E20-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM2-2	E20-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
COM3-1	E30-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM3-2	E30-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
COM4-1	E40-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM4-2	E40-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
COM5-1	E50-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM5-2	E50-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
COM6-1	E60-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM6-2	E60-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR
COM7-1	E70-1	TEF, STR, 24GA, WHT	500132	A/R	TWISTED
COM7-2	E70-2	TEF, STR, 24GA, BLK	500132	A/R	PAIR

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DOCUNENT TITLE	SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV
FINAL ASSY., 1260-30D	**A**	**21793**	**404767-004**	**F**
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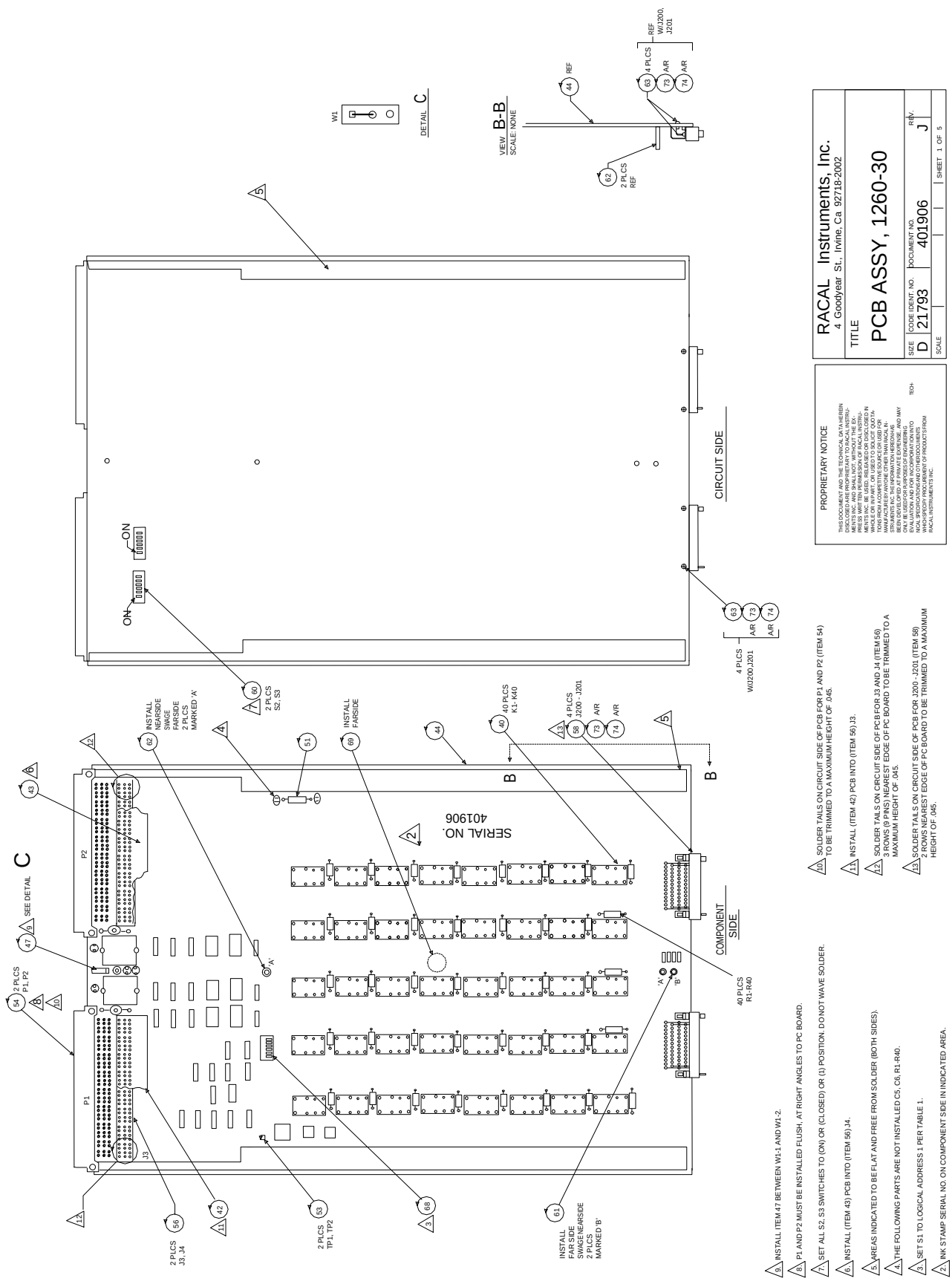
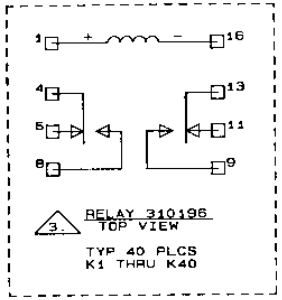


9. INSTALL ITEM 47 BETWEEN W1-1 AND W1-2.
8. P1 AND P2 MUST BE INSTALLED FLUSH, AT RIGHT ANGLES TO PC BOARD.
7. SET ALL S2, S3 SWITCHES TO (ON) OR (CLOSED) OR (1) POSITION. DO NOT WAVE SOLDER.
6. INSTALL (ITEM 43) PCB INTO (ITEM 56) J4.
5. AREAS INDICATED TO BE FLAT AND FREE FROM SOLDER (BOTH SIDES).
4. THE FOLLOWING PARTS ARE NOT INSTALLED C5, C6, R1-R40.
3. SET S1 TO LOGICAL ADDRESS 1 PER TABLE 1.
2. INK STAMP SERIAL NO. ON COMPONENT SIDE IN INDICATED AREA.
1. REFERENCE SCHEMATIC 431906.

10. SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR P1 AND P2 (ITEM 54) TO BE TRIMMED TO A MAXIMUM HEIGHT OF .046.
11. INSTALL (ITEM 42) PCB INTO (ITEM 56) J3.
12. SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR J3 AND J4 (ITEM 56) 3 ROWS (9 PINS) NEAREST EDGE OF PC BOARD TO BE TRIMMED TO A MAXIMUM HEIGHT OF .045.
13. SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR J200 - J201 (ITEM 58) 2 ROWS NEAREST EDGE OF PC BOARD TO BE TRIMMED TO A MAXIMUM HEIGHT OF .046.



Z12
W1
U34
S3
R40
P2
L5
K40
J201
E70
C122
HIGHEST REF. DES.

REF. DES.	IC TYPE	+5V PIN NO.	GND PIN NO.
U17, 21, 25, 29, 33	2803		9
U16, 20, 24, 28, 32	74HCT273	20	10
U14	74HCT85	16	8
U13	74LS138	16	8
U11, 12, 15, 19, 23, 27, 31	74HCT164	14	7
U10, 18, 22, 26, 30, 34	74HCT166	16	8
U9	LM339	3	12
U7, 8	26LS32	16	8
U6	26LS31	16	8
U4, 5	74HCT253	16	8
U3	231154 (22V10H)	28	14
U2	231153 (16R4)	20	10
U1	231152 (15L8G)	20	10

IC POWER AND GROUND CONNECTIONS

4. C5 AND C6, R1 THRU R40 ARE NOT INSTALLED.

3. RELAYS K1 THRU K40 ARE RACAL P/N 310196.
ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.

2. RESISTOR NETWORKS ARE IN OHMS.

1. CAPACITOR VALUES ARE IN MICROFARADS, 50V. +/-20% UNLESS OTHERWISE SPECIFIED.

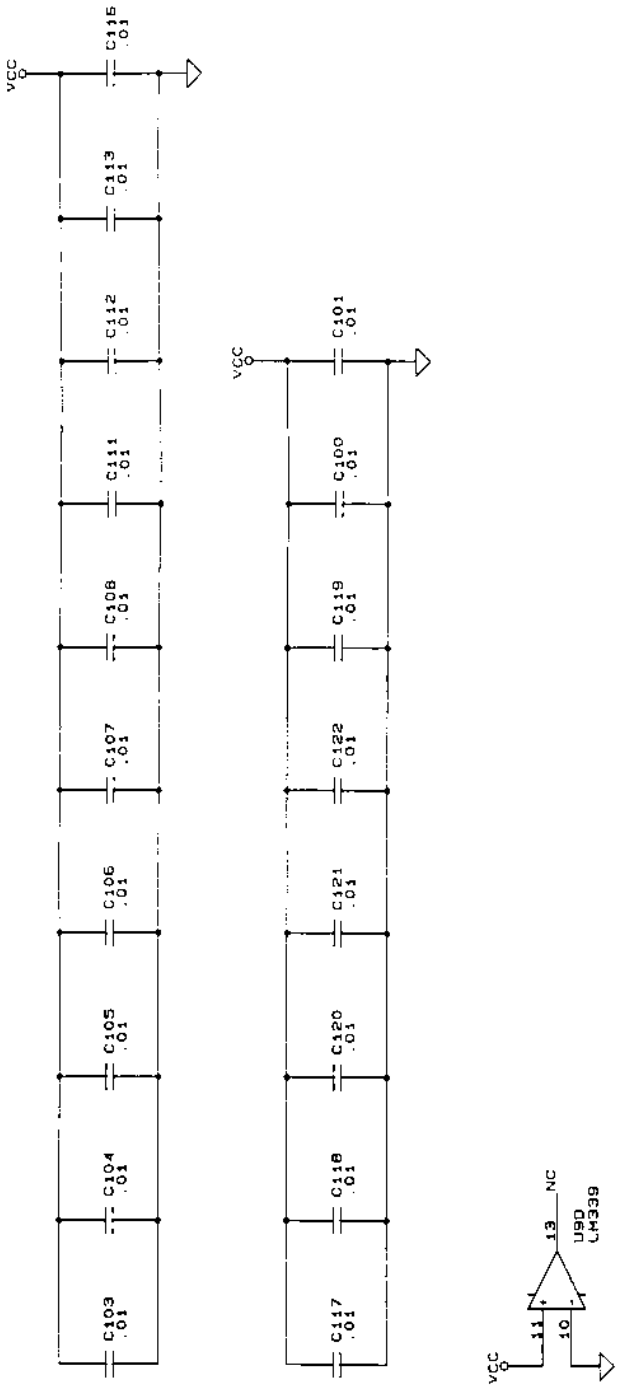
NOTES: UNLESS OTHERWISE SPECIFIED

Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

DOCUMENT TITLE: SCHEM., 1260-30

SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	431906	B

SCALE ——— SHEET 1 OF 17



SIZE	CODE IDENT NO	DOCUMENT NO.	REV
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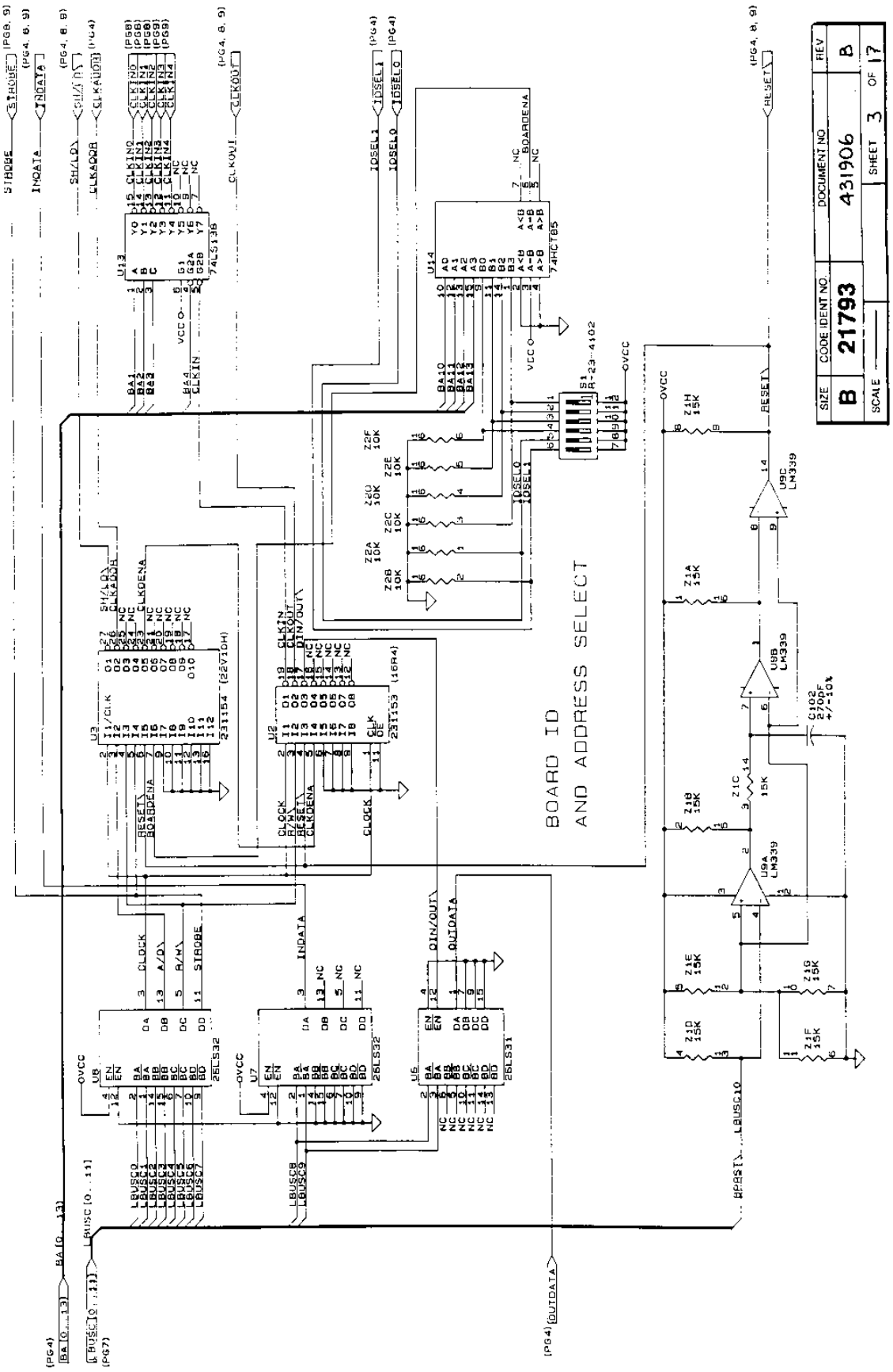
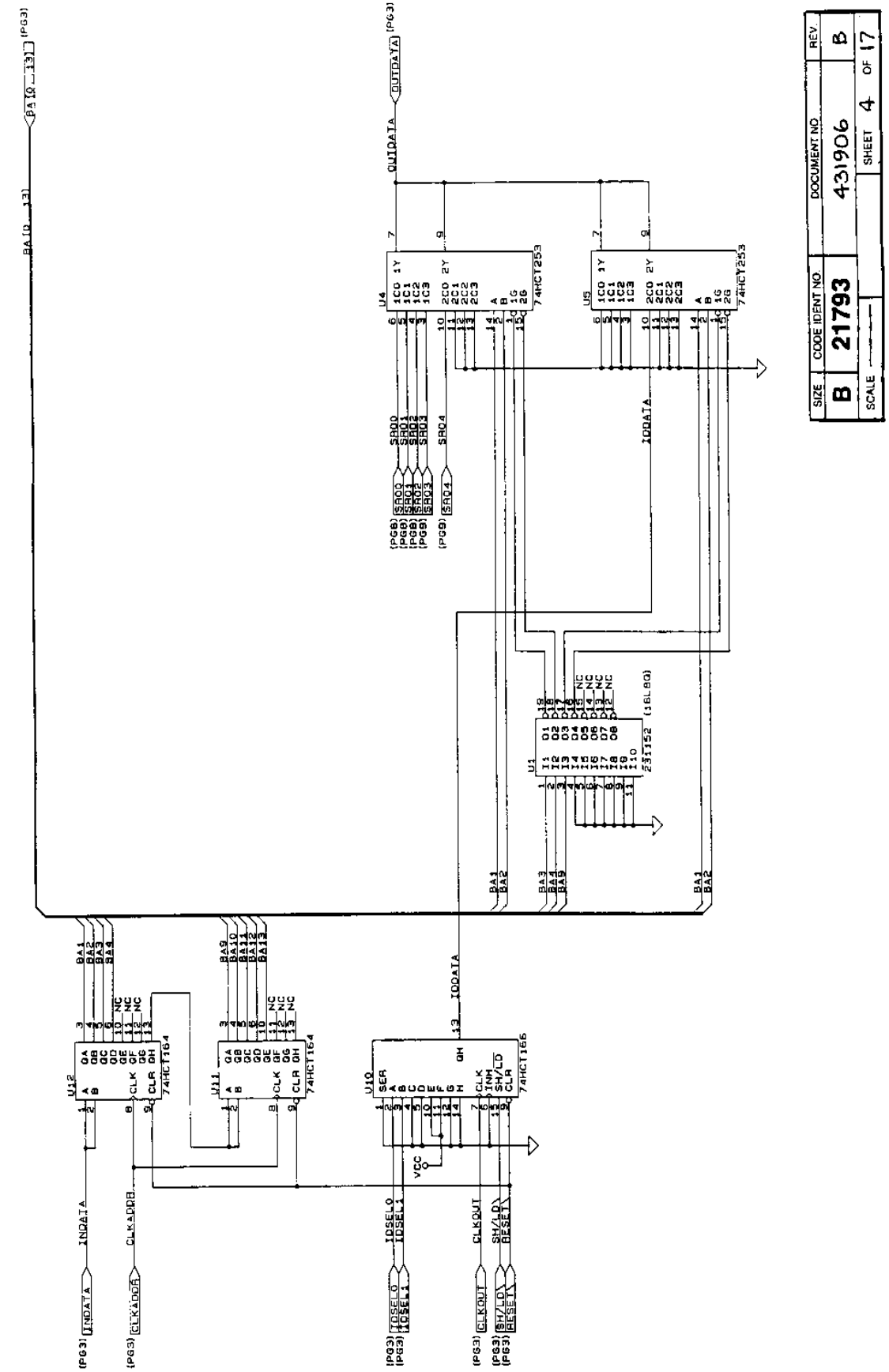
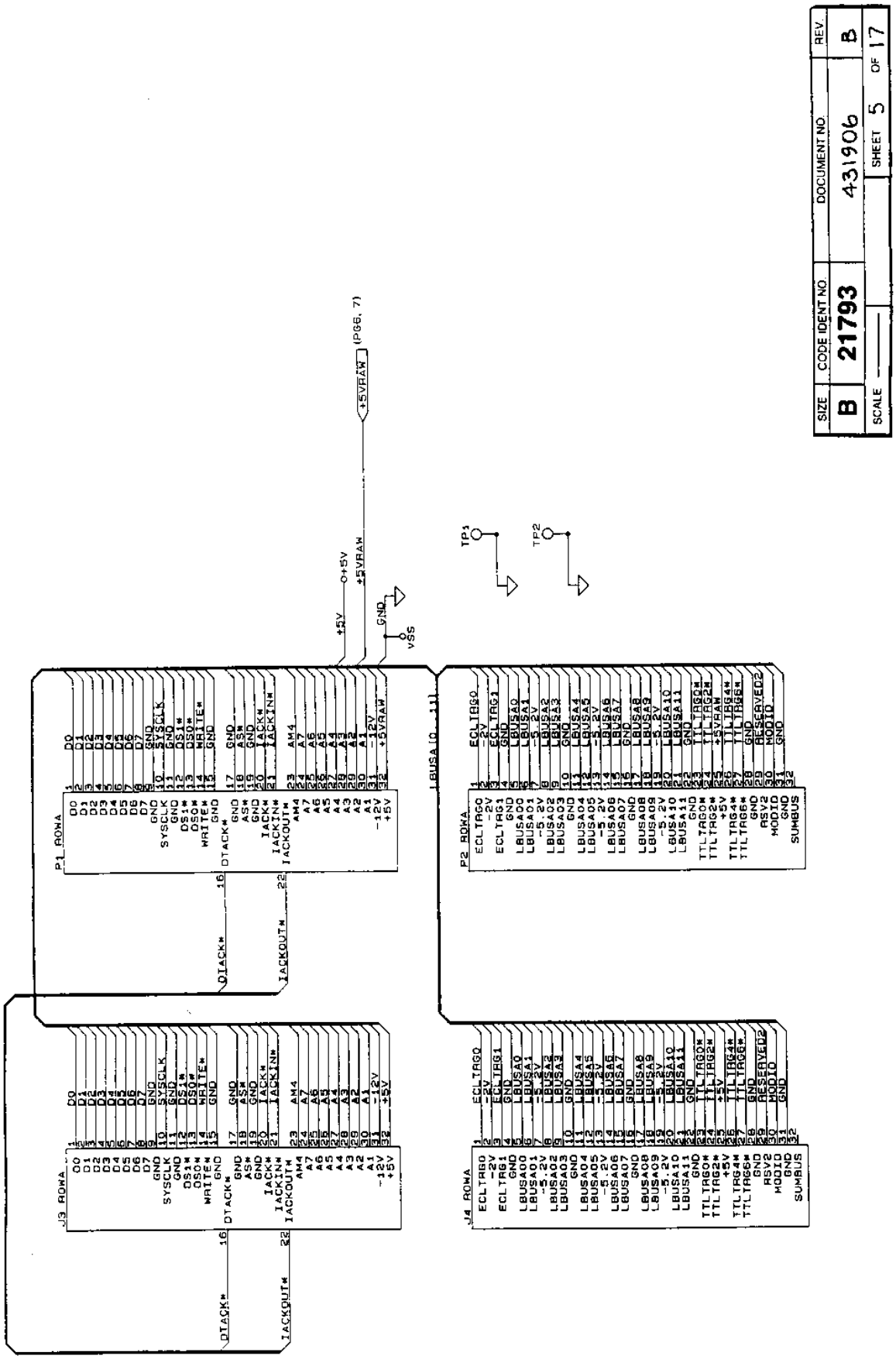
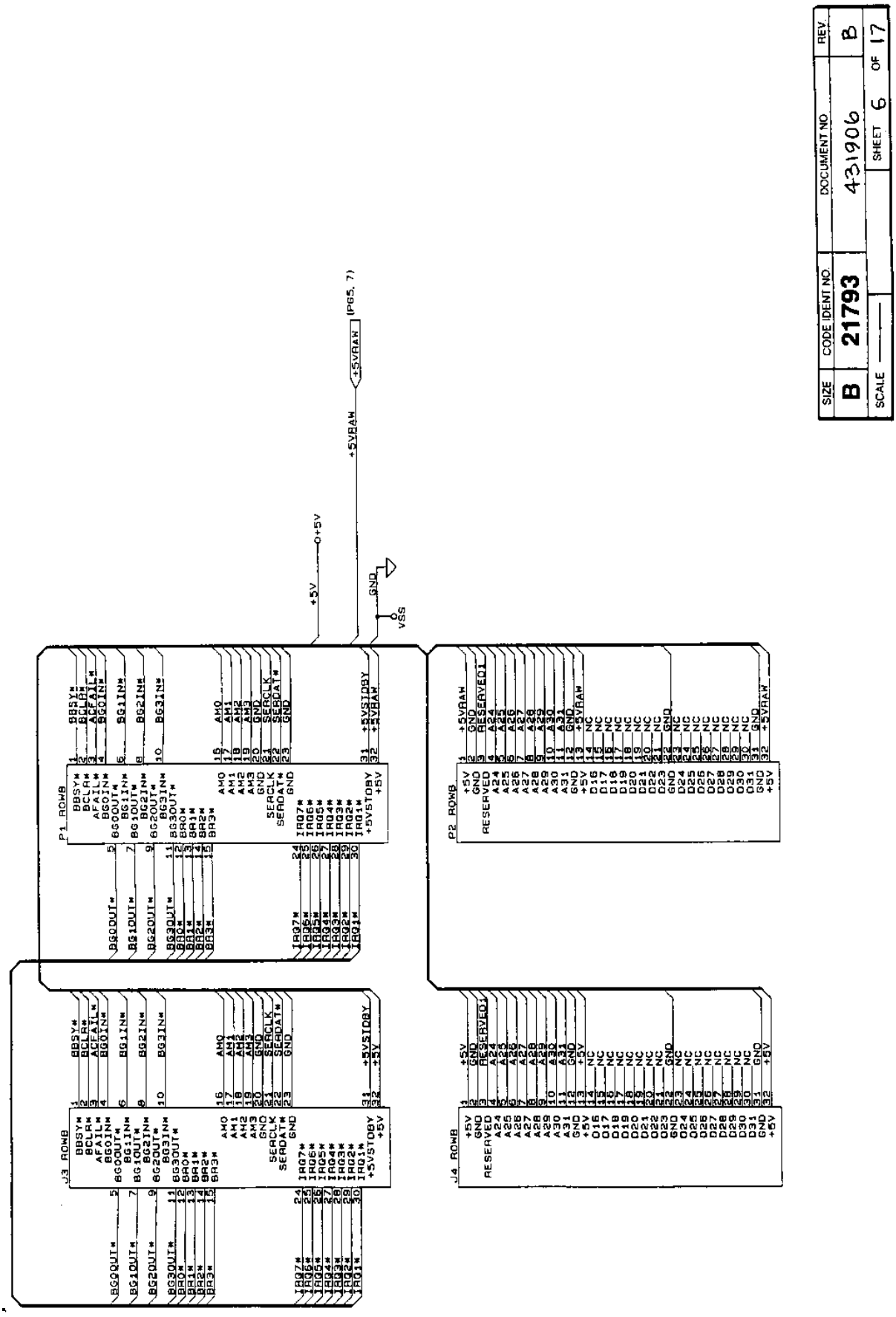
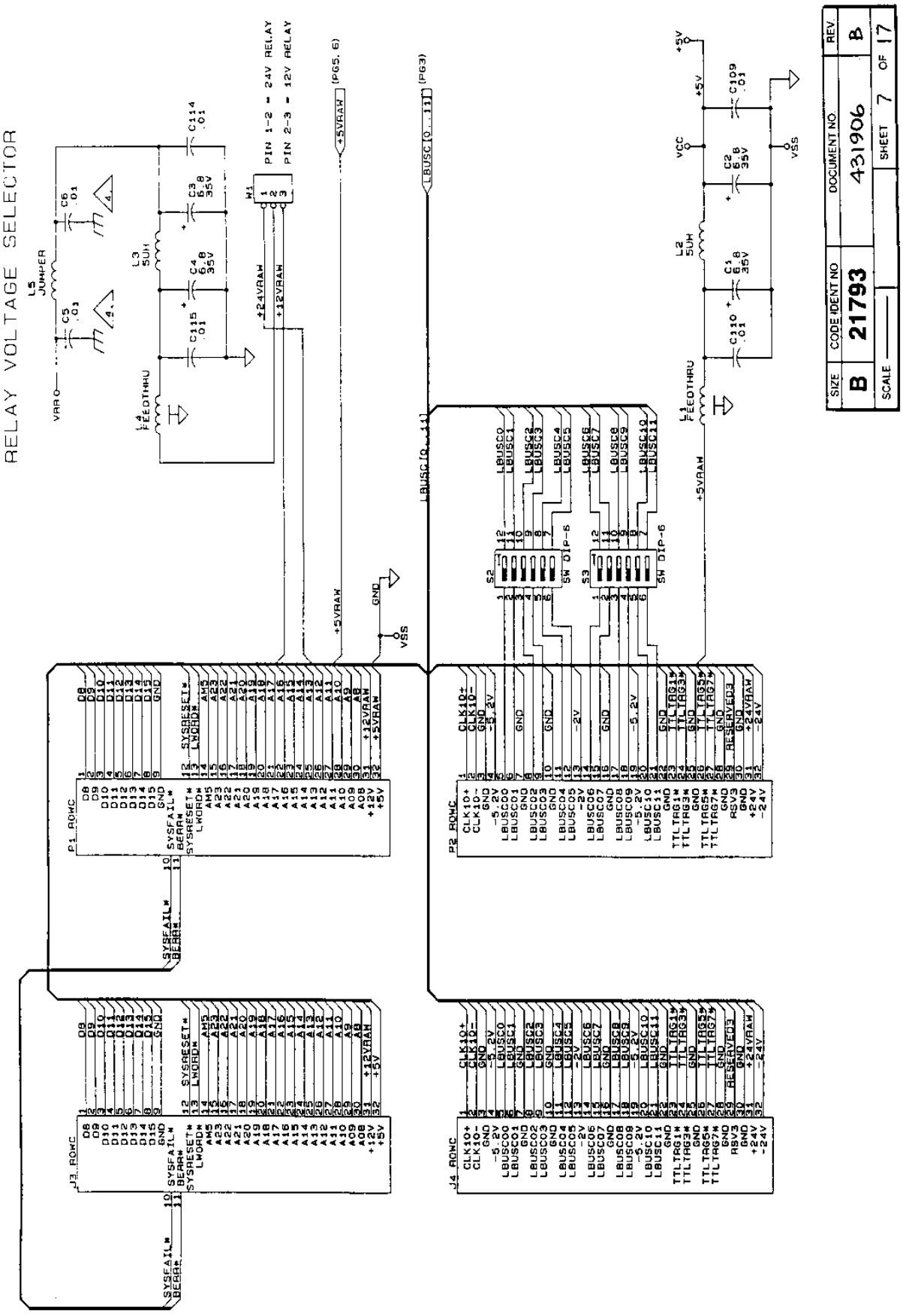
SCALE		SHEET 2 OF 17	

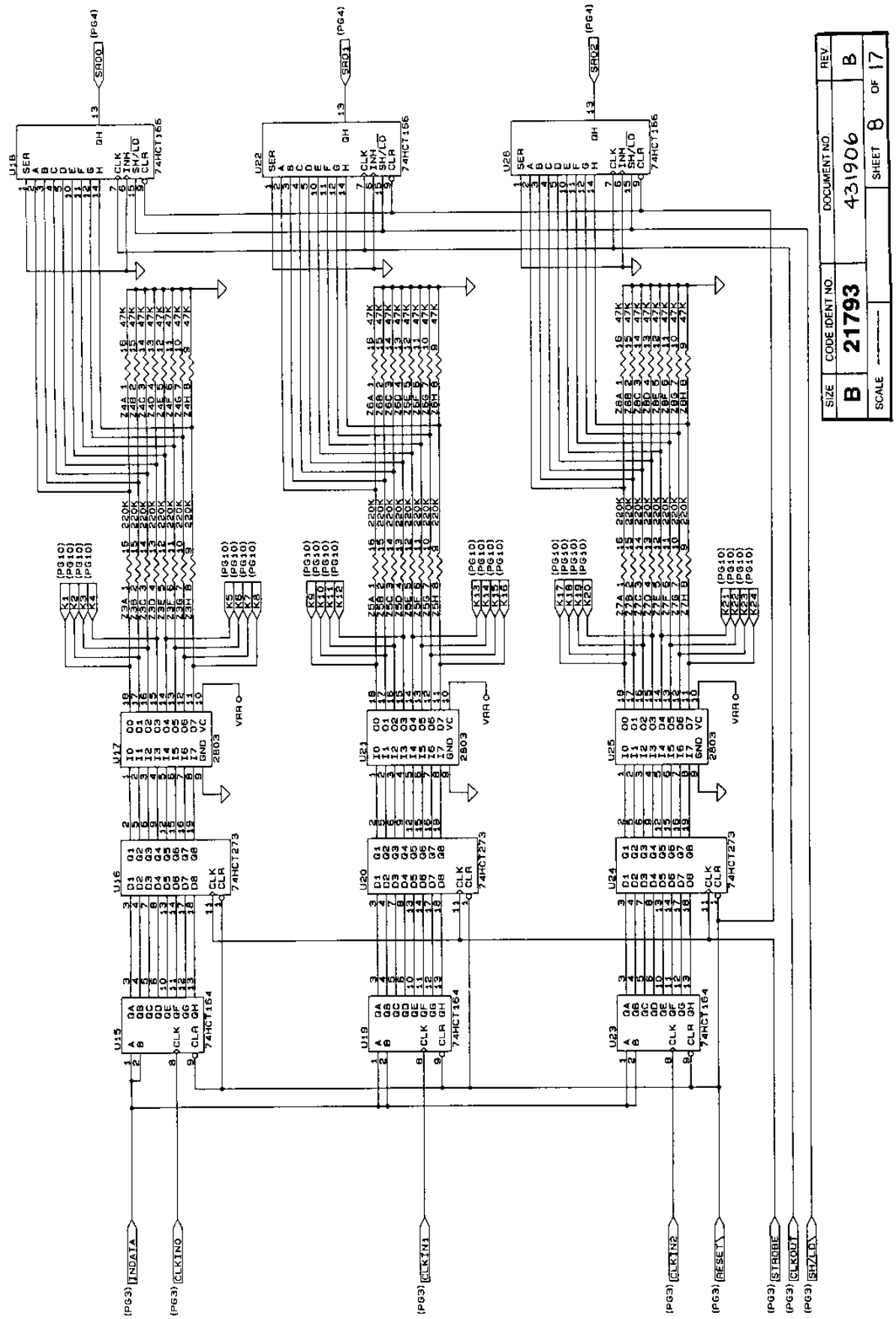

BOARD ID
AND ADDRESS SELECT
SIZE B
CODE IDENT NO 21793
DOCUMENT NO 431906
REV B
SHEET 3 OF 17
SCALE


SIZE
B
CODE IDENT NO
21793
DOCUMENT NO
431906
REV
B
SCALE
SHEET 4 OF 17
74HCT253
74HCT164
74HCT166
231152 (16L8Q)
OUTDATA
IDDATA
INDATA
CLKADDR
CLKOUT
IDSEL0
IDSEL1
SH/LD
RESET
VCC


SIZE
B
CODE IDENT NO.
21793
DOCUMENT NO.
431906
REV.
B
SCALE
SHEET 5 OF 17
P1 ROW A
P2 ROW A
J3 ROW A
J4 ROW A
DTACK*
IACKOUT*
LBUSA [0..11]
+5VRAW
(P66, 7)
+5V
GND
VSS
TP1
TP2


SIZE
B
CODE IDENT NO.
21793
DOCUMENT NO
431906
REV.
B
SCALE
SHEET 6 OF 17
P1 ROWB
P2 ROWB
J3 ROWB
J4 ROWB
+5VRAW
+5V
GND
VSS


RELAY VOLTAGE SELECTOR
SIZE
CODE IDENT NO
DOCUMENT NO
REV
B
21793
431906
B
SCALE
SHEET 7 OF 17
PIN 1-2 = 24V RELAY
PIN 2-3 = 12V RELAY
+5VRAM
+24VRAM
+12VRAM
VSS
VCC
+5V
LBUSC0..11
(FG3)
(FG5, 6)
P1 ROWC
P2 ROWC
J3 ROWC
J4 ROWC
SW DIP-6


SIZE B
CODE IDENT NO. 21793
DOCUMENT NO. 431906
REV. B
SCALE
SHEET 8 OF 17
U18
U22
U26
74HCT165
SR00
SR01
SR02
U15
U19
U23
74HCT164
U16
U20
U24
74HCT273
U17
U21
U25
2803
INDATA
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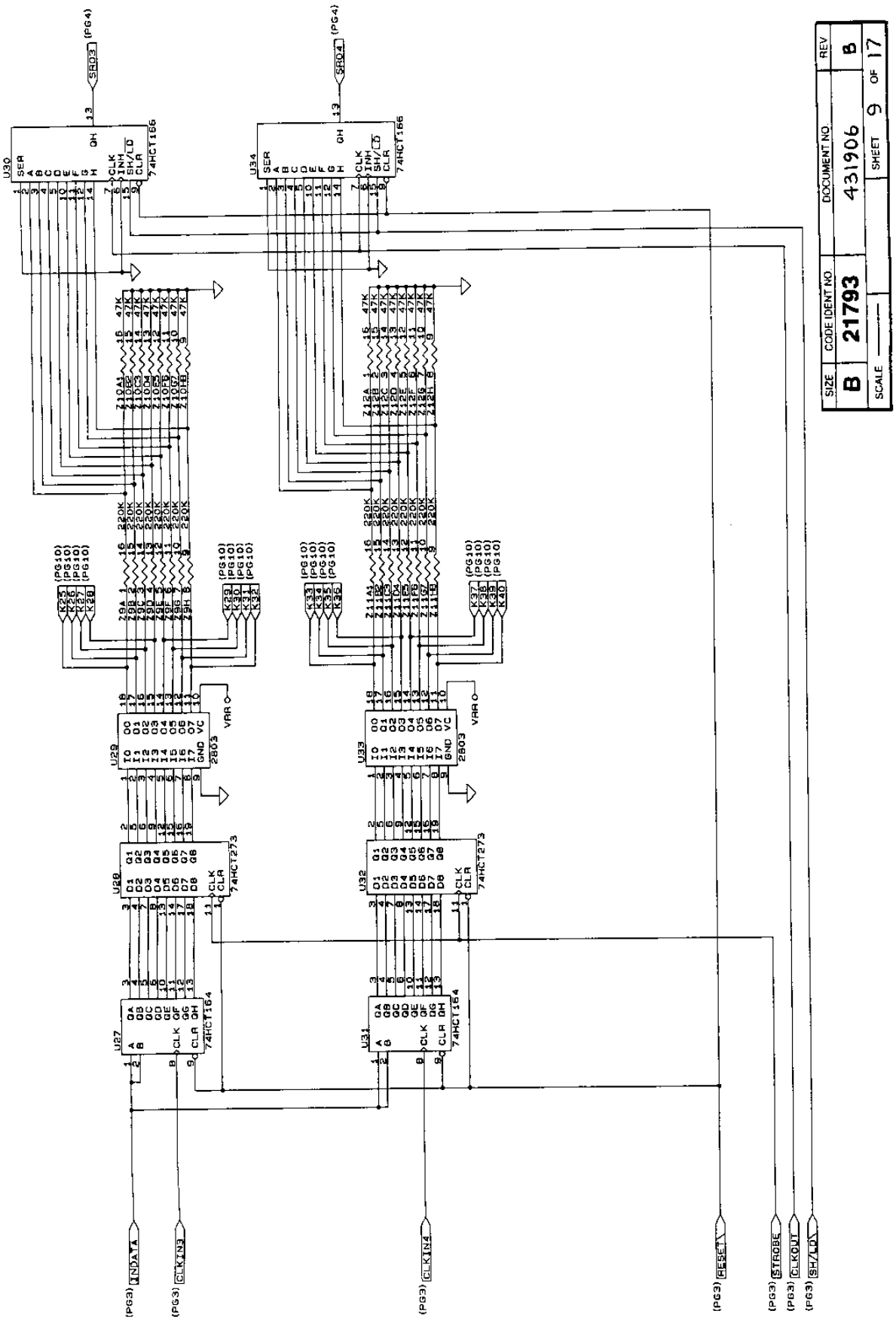
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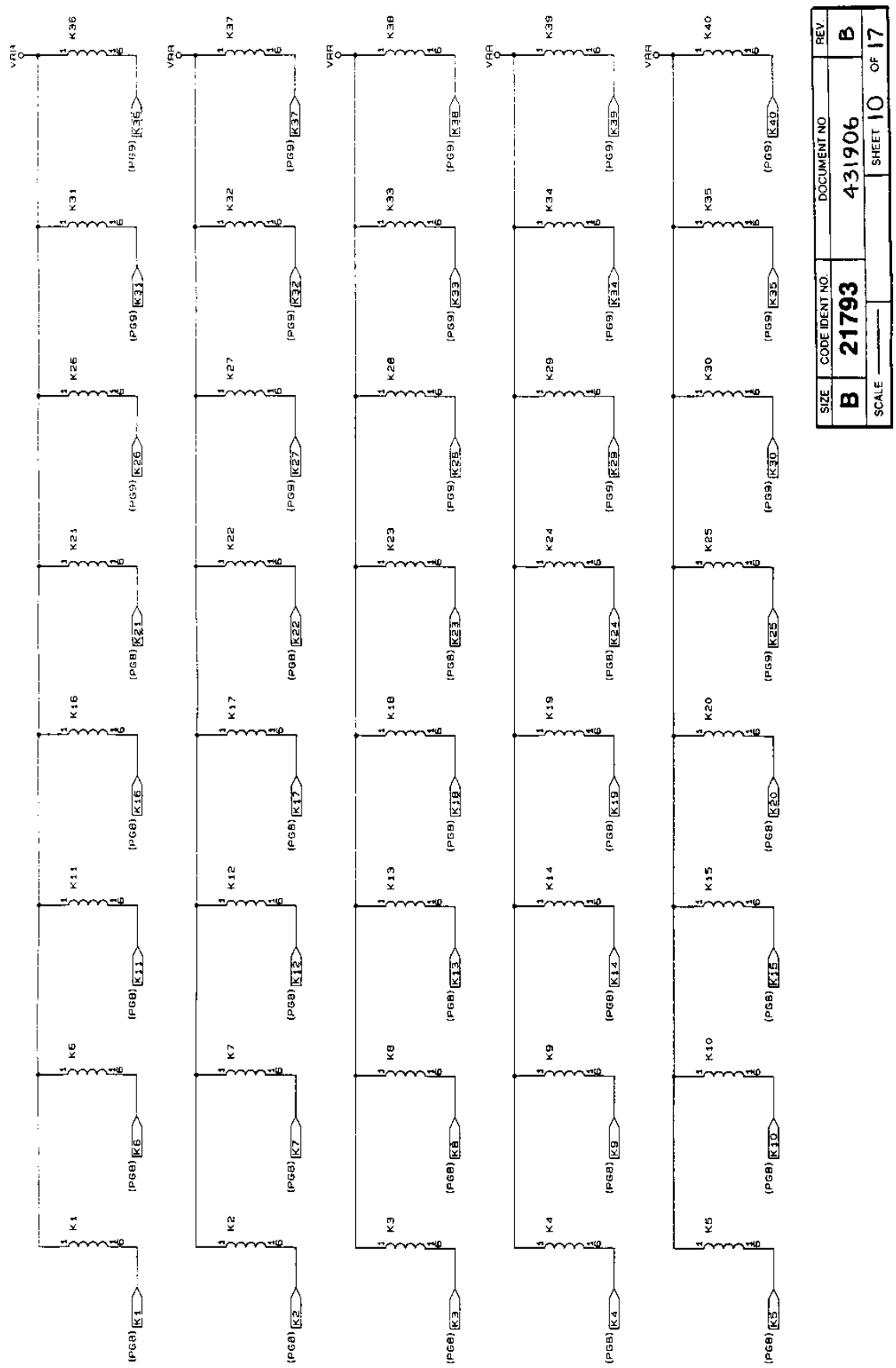
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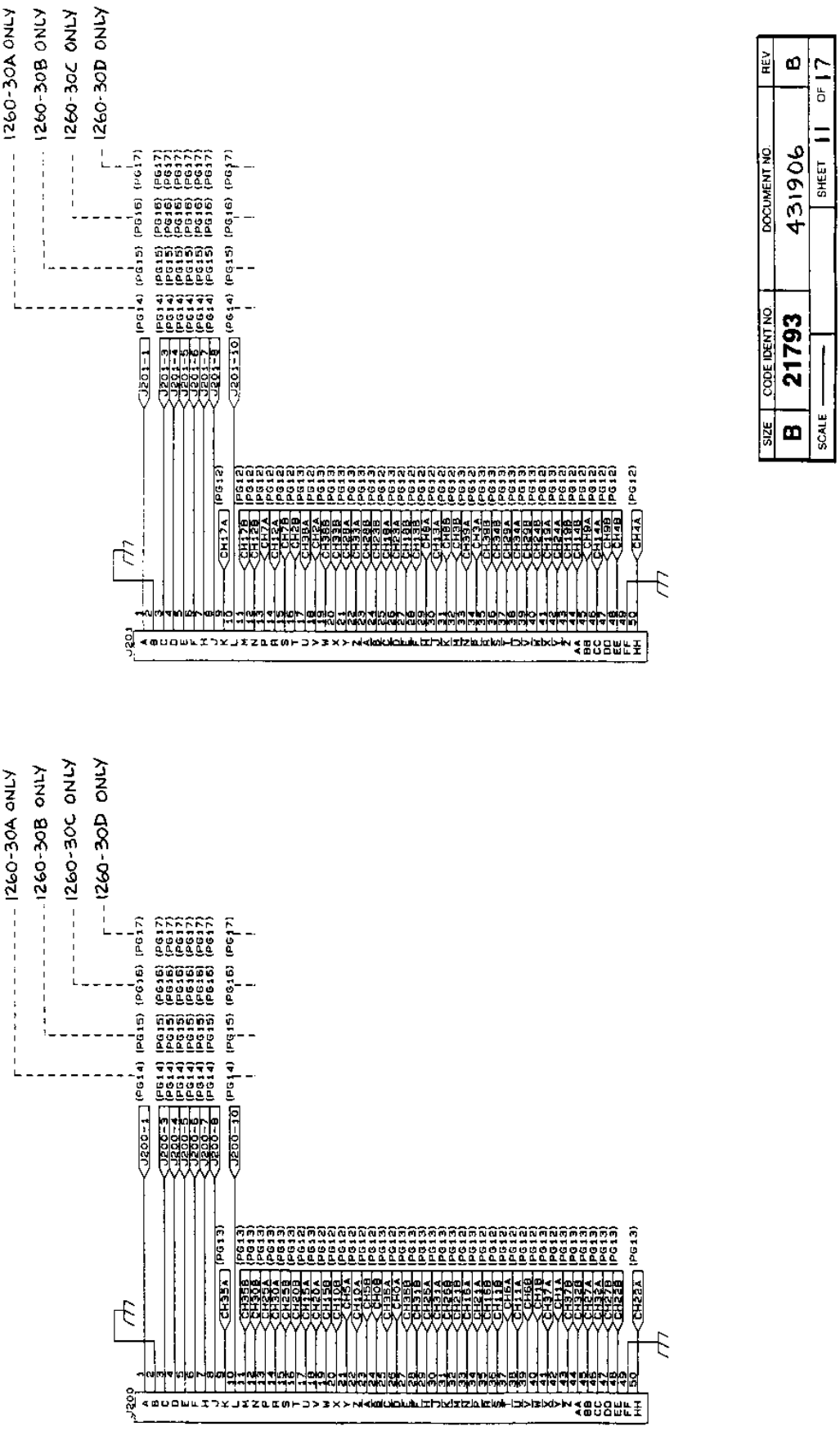
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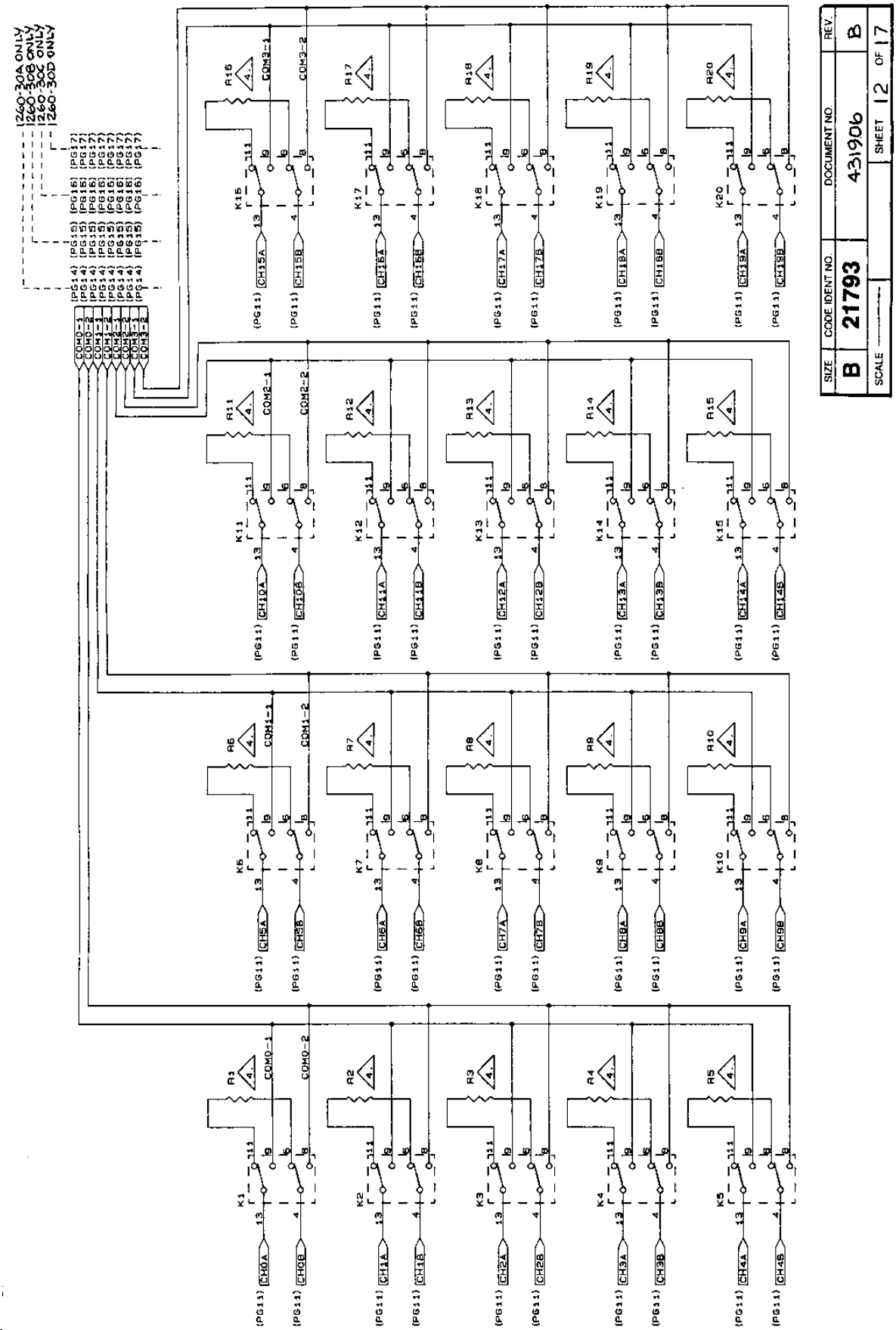
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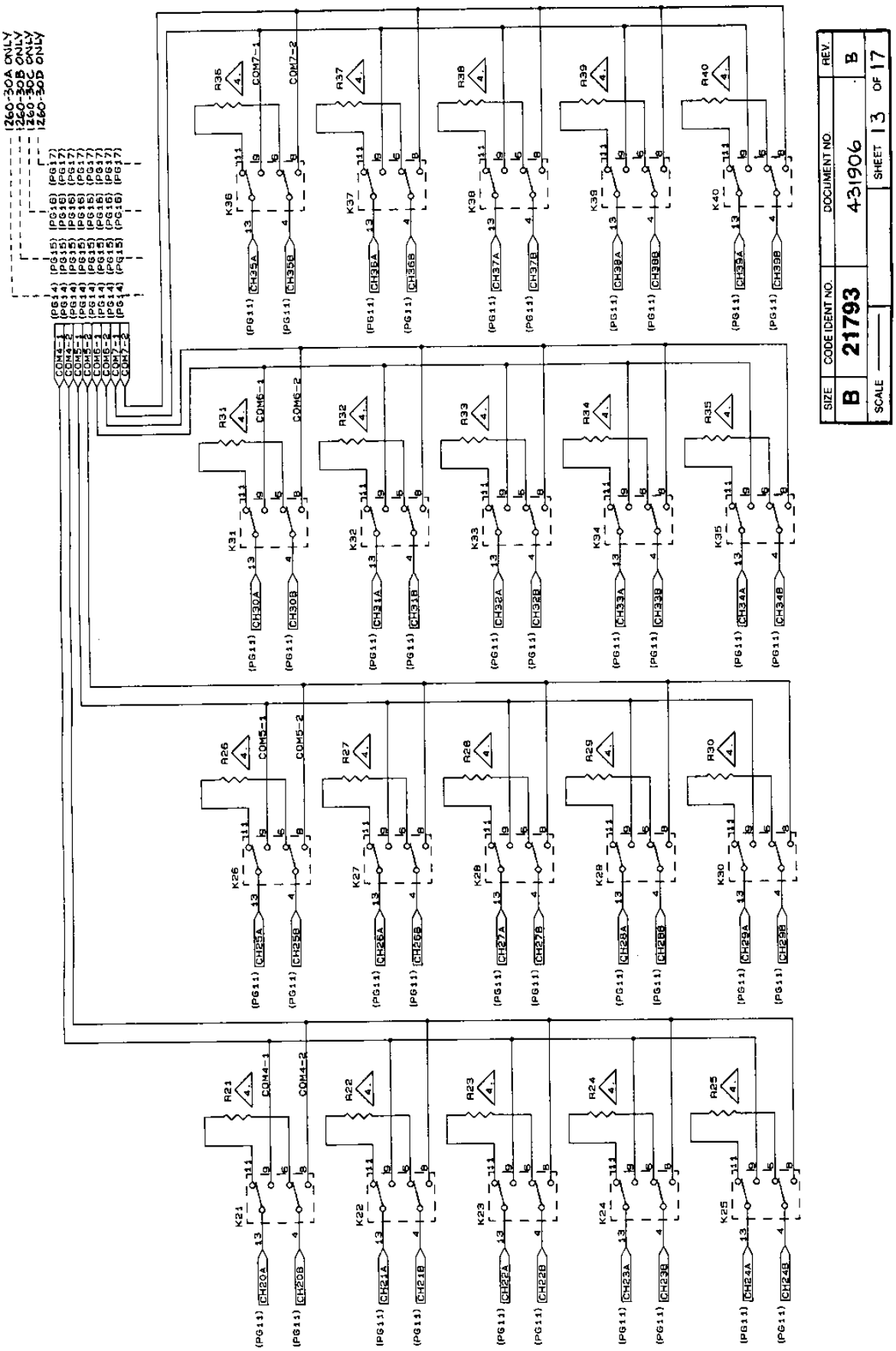
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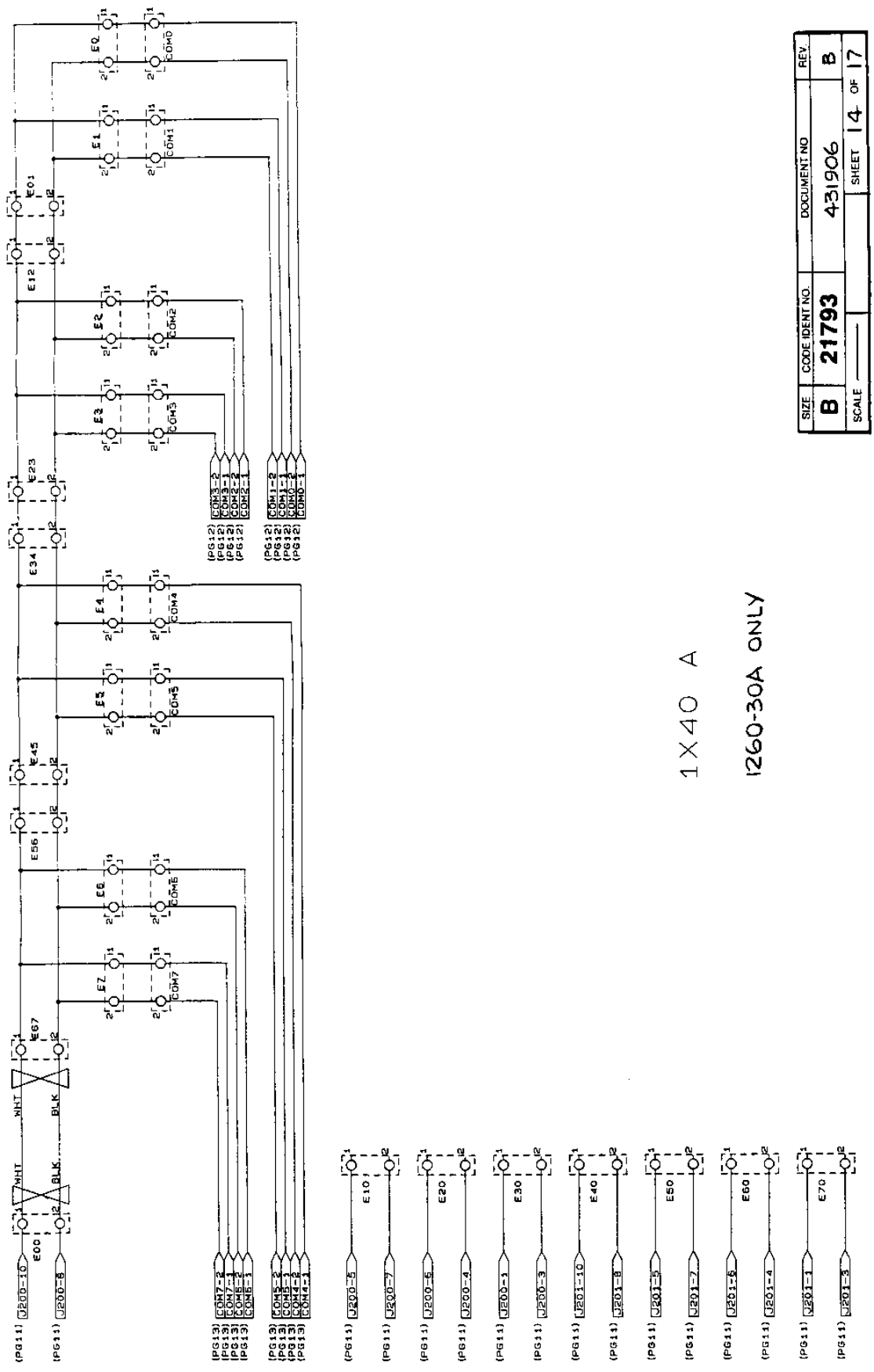
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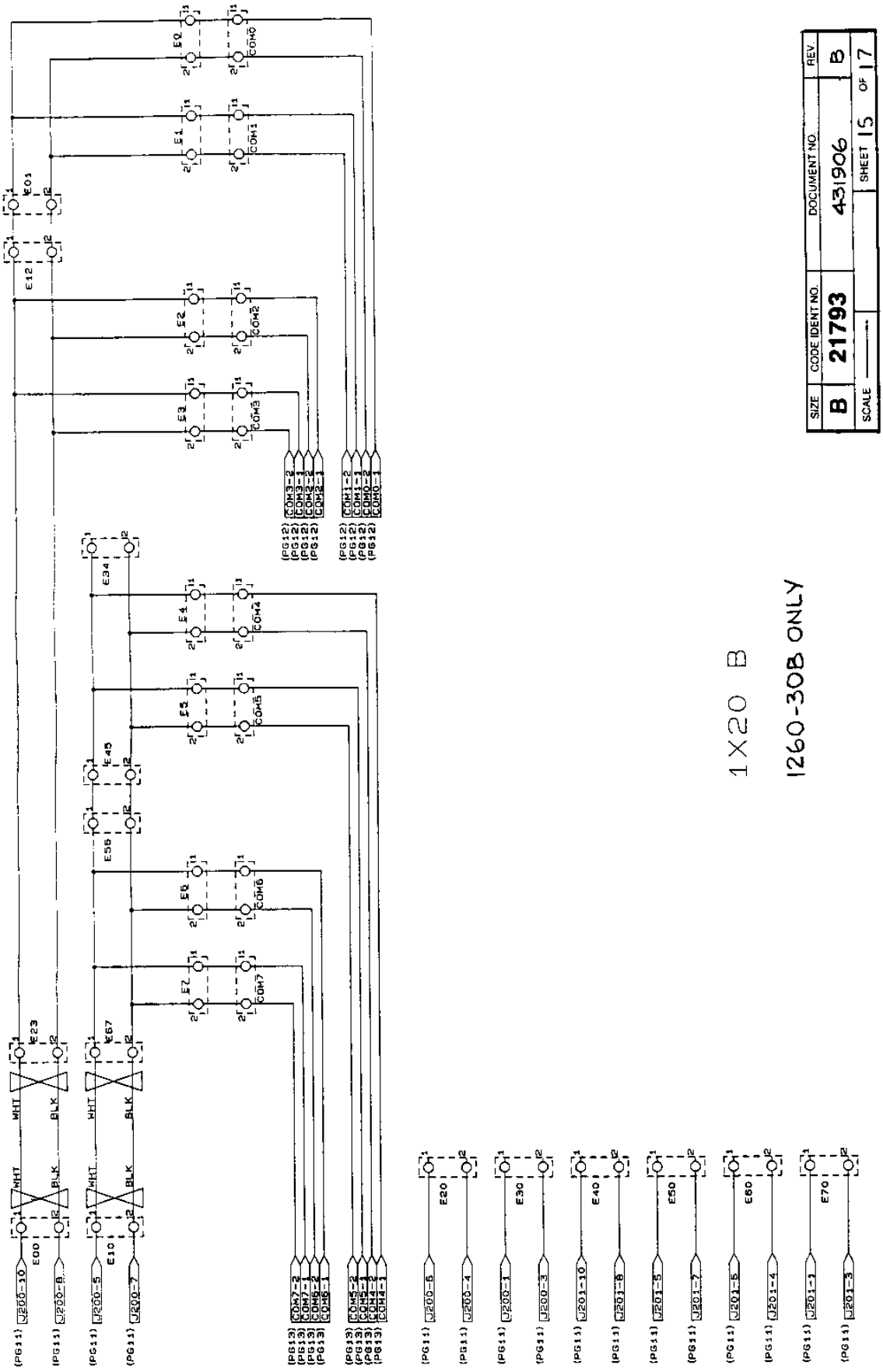
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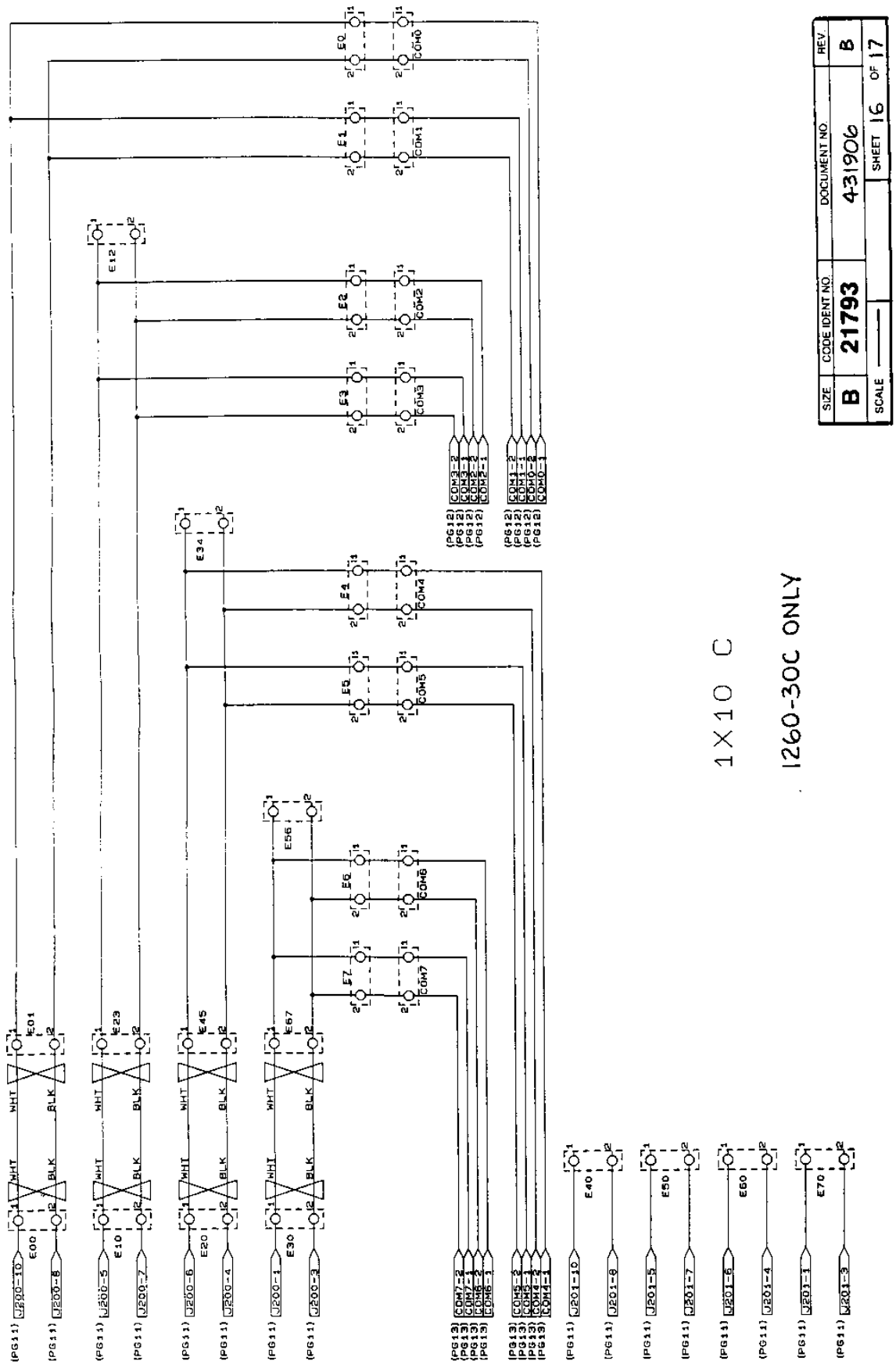
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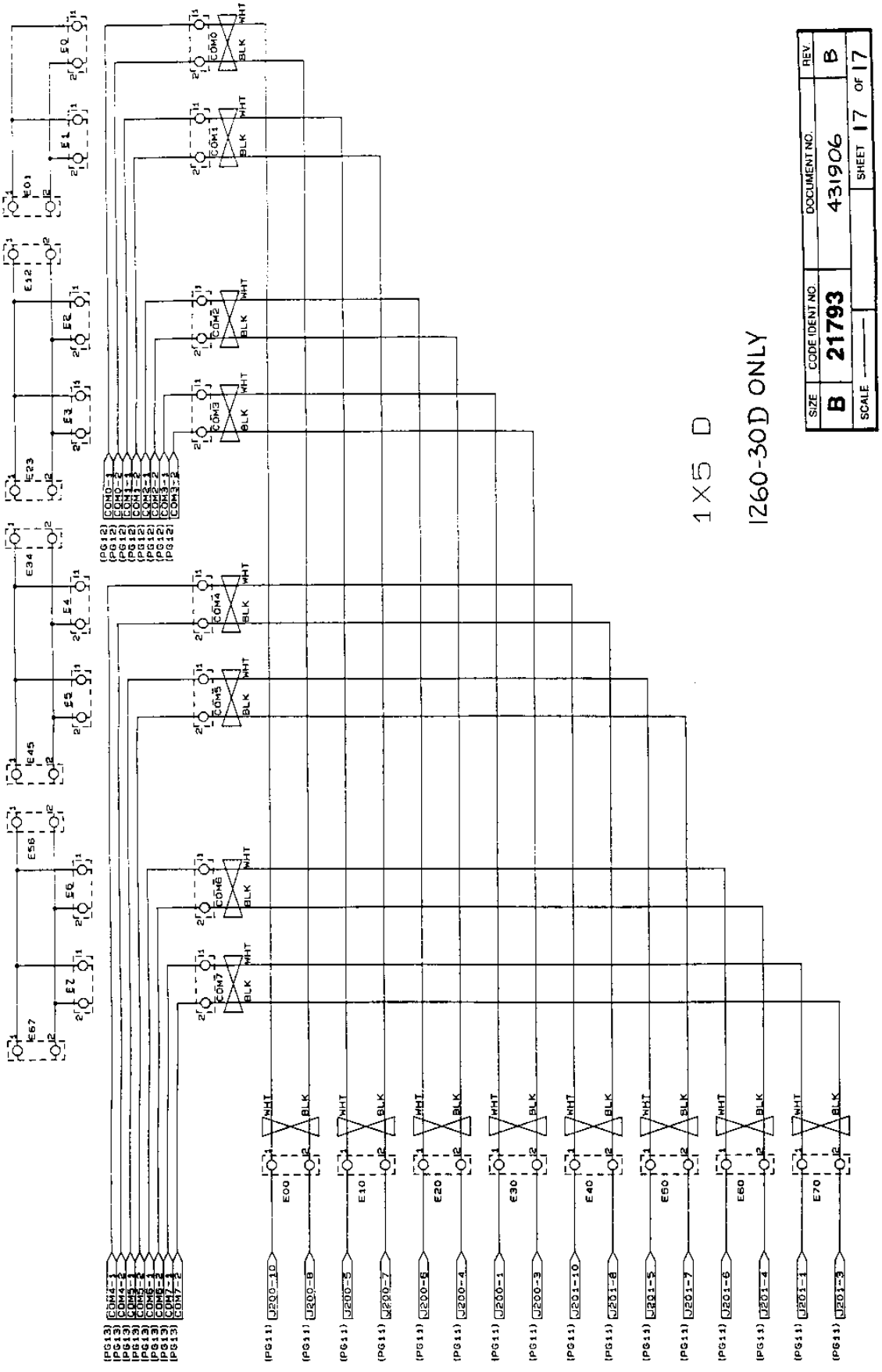
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Chapter 5
PARTS LIST

404767-001	Final Assembly, 1260-30A	5-3
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404767-001 - FINAL ASSY., 1260-30A

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401906	PCB ASSY, 1260-30	21793	401906
{3}1	404938	SHIPPING KIT, 1260-30	21793	404938
{5}1	456238-001	PANEL, RIGHT, 1260-30	21793	404938
{7}1	456239-001	PANEL, LEFT, 1260-30	21793	456239-001
{9}1	456270-001	PANEL ASSY, FRONT,1260-30	21793	456270-001
{11}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{13}A/R	500132	WIRE, TEFLON TWISTED PAIR, 24 GA, BLK/WHT	-	-
{15}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{16}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{17}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{20}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
{23}5	616414	SCREW, PFL, M3X.50X5	-	-
{26}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{28}1	921059	LABEL, CAUTION, STATIC	21793	921059
{30}1	921148-001	LABEL SET VXI	21793	921148-001
{32}1	921212-004	LABEL, VXI, 1260-30	21793	921212-004
{34}1	921309	LABEL, VXI SWITCH ID	21793	921309

404767-002 - FINAL ASSY., 1260-30B

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401906	PCB ASSY, 1260-30	21793	401906
{3}1	404938	SHIPPING KIT, 1260-30	21793	404938
{5}1	456238-001	PANEL, RIGHT, 1260-30	21793	456238-001
{7}1	456239-001	PANEL, LEFT, 1260-30	21793	456239-001
{9}1	456270-001	PANEL ASSY, FRONT,1260-30	21793	456270-001
{11}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{13}A/R	500132	WIRE, TEFLON TWISTED PAIR, 24 GA, BLK/WHT	-	-
{15}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{16}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{17}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{20}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
{23}5	616414	SCREW, PFL, M3X.50X5	-	-
{26}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{28}1	921059	LABEL, CAUTION, STATIC	21793	921059
{30}1	921148-001	LABEL SET VXI	21793	921148-001
{32}1	921212-004	LABEL, VXI, 1260-30	21793	921212-004
{34}1	921309	LABEL, VXI SWITCH ID	21793	921309

404767-003 - FINAL ASSY., 1260-30C

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401906	PCB ASSY, 1260-30	21793	401906
{3}1	404938	SHIPPING KIT, 1260-30	21793	404938
{5}1	456238-001	PANEL, RIGHT, 1260-30	21793	456238-001
{7}1	456239-001	PANEL, LEFT, 1260-30	21793	456239-001
{9}1	456270-001	PANEL ASSY, FRONT,1260-30	21793	456270-001
{11}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{13}A/R	500132	WIRE, TEFLON TWISTED PAIR, 24 GA, BLK/WHT	-	-
{15}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{16}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{17}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{20}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
{23}5	616414	SCREW, PFL, M3X.50X5	-	-
{26}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{28}1	921059	LABEL, CAUTION, STATIC	21793	921059
{30}1	921148-001	LABEL SET VXI	21793	921148-001
{32}1	921212-004	LABEL, VXI, 1260-30	21793	921212-004
{34}1	921309	LABEL, VXI SWITCH ID	21793	921309

404767-004 - FINAL ASSY., 1260-30D

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401906	PCB ASSY, 1260-30	21793	401906
{3}1	404938	SHIPPING KIT, 1260-30	21793	404938
{5}1	456238-001	PANEL, RIGHT, 1260-30	21793	456238-001
{7}1	456239-001	PANEL, LEFT, 1260-30	21793	456239-001
{9}1	456270-001	PANEL ASSY, FRONT,1260-30	21793	456270-001
{13}A/R	500132	WIRE, TEFLON TWISTED PAIR, 24 GA, BLK/WHT	-	-
{15}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{16}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{17}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{20}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
{23}5	616414	SCREW, PFL, M3X.50X5	-	-
{26}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{28}1	921059	LABEL, CAUTION, STATIC	21793	921059
{30}1	921148-001	LABEL SET VXI	21793	921148-001
{32}1	921212-004	LABEL, VXI, 1260-30	21793	921212-004
{34}1	921309	LABEL, VXI SWITCH ID	21793	921309

404938 - SHIPPING KIT, 1260-30

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}2	455540	KEY, LOCKOUT, TTL, A/C	21793	455540
{2}2	455541	KEY, LOCKOUT, TTL, A/C	21793	455541
{3}2	455542	KEY, LOCKOUT, TTL, A/C	21793	455542
{6}2	601855-050	CONNECTOR, SGMC. CABLE PLUG	21793	601855-050
{7}100	601857	CONTACT, SGMC. MAIL	28198	M5422N
{9}3	615014	SCREW, PPH, 2-56 X .250	-	-
{10}1	980673-005	MANUAL, 1260-30 MODULE	21793	980673-005

401906 - PCB ASSY, 1260-30

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-C4	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C100	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C101	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C102	130177	CAPACITOR, CHIP, SMD, 270PF	95275	VJ1206A271KXAMT
C103-C122	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
J3	601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J4	601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J200	601856-050	CONNECTOR, SMPL, PCB RECEPT	21793	601856-050
J201	601856-050	CONNECTOR, SMPL, PCB RECEPT	21793	601856-050
K1-K40	310196	RELAY, 2FORM C	61529	DS2YE-S-DC24V
L1	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L2	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L3	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L4	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L5	600245	JUMPER, INSULATED	52210	L-2007-1
P1	601675	CONNECTOR, EUROCARD TYPE C, 96-PIN	00779	532505-1
P2	601675	CONNECTOR, EUROCARD TYPE C, 96-PIN	00779	532505-1
S1	600814	SWITCH, SLIDE, 6SPST	02660	31-010
S2	601915	SWITCH, DIP 6 POS, SMD	91506	ADF-06ST
S3	601915	SWITCH, DIP 6 POS, SMD	91506	ADF-06ST
TP1	601197	POST, TEST, .025 SQ	00779	6-87022-6
TP2	601197	POST, TEST, .025 SQ	00779	6-87022-6
U1	231152	IC, PROGRAMMED PIA	21793	231152
U2	231153	IC, PROGRAMMED PLA	21793	231153
U3	231154	IC, PROGRAMMED PLA	21793	231154
U4	231147	IC, MULTIPLEXER	04713	74HC253D
U5	231147	IC, MULTIPLEXER	04713	74HC253D
U6	231125	IC, DIGITAL, LINE DRIVER	27014	DS26LS31MN
U7	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U8	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U9	231093	IC, QUAD COMPARATOR	04713	LM339D
U10	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U11	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U12	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U13	231094	IC, DEMUX DECODER	18324	N74LS138D
U14	231135	IC, DIGITAL, 4-BIT COMPARATOR	18324	PC74HCT85D
U15	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U16	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U17	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U18	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U19	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U20	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U21	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U22	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U23	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U24	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U25	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U26	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U27	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U28	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U29	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U30	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U31	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U32	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U33	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U34	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
Z1	080114	RES NETWORK, 16P8R, 15K	73138	628-AL-153J
Z2	080120	RES NETWORK, 10K	11236	767-161R10K
Z3	080119	RES NETWORK, 220K	91637	SOMC-1603-224K

401906 - PCB ASSY, 1260-30

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
Z4	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z5	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z6	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z7	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z8	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z9	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z10	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z11	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z12	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
{42}1	401951-003	PCB ASSY., P3 JUMPER	21793	401951-003
{43}1	401951	PCB ASSY., LBUS JUMPER	21793	401951
{44}1	411906	PCB, SCANNER/MUX (UNLOADED)	21793	411906
{47}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{61}2	611367	STANDOFF, ROUND SWAGE, M3X0.5X4.3	06540	21003B-B0350-28(L4.3)
{62}2	611366	STANDOFF, ROUND SWAGE, M3X0.5X19	06540	21017B-B-0350-28
{63}4	615012	SCREW, PPH, 2-56 X .125	-	-
{69}1	920927	BUMPER	53387	SJ-5003
{73}A/R	921279	LOCQUIC, PRIMER	05972	74756
{74}A/R	921280	LOCTITE, HIGH STRENGTH	05972	27121

List of Suppliers

FSC	SUPPLIER
00779	AMP, INC. HARRISBURG, PA
01295	TEXAS INSTRUMENTS, INC. DALLAS, TX
02660	AMPHENOL CORP. BROADVIEW, IL
04713	MOTOROLA, INC. (SEMICONDUCTOR PRODUCTS DIV.) PHOENIX, AZ
05397	UNION CARBIDE CORP. (MATERIALS SYSTEMS DIV.) CLEVELAND, OH
05972	LOCTITE CORP. HARTFORD, CT
06540	AMATOM ELECTRONIC HARDWARE NEW ROCHELLE, NY
11236	CTS OF BERNE, INC. BERNE, IN
18324	SIGNETICS, INC. SUNNYVALE, CA
21793	RACAL INSTRUMENTS INC. IRVINE, CA
27014	NATIONAL SEMI-CONDUCTOR CORP. SANTA CLARA, CA
28198	POSITRONIC INDUSTRIES INC. SPRINGFIELD, MO
52072	CIRCUIT ASSY. CORP. COSTA MESA, CA
52210	GETTING ENGRG. & MFG. CO. SPRING MILLS, PA
53387	THREE M (3M) CO. ST. PAUL, MN
56289	SPAGUE ELECTRIC CO. N. ADAMS, MA
61529	AROMAT CORP. CUPERTINO, CA
62559	SCHROFF, INC. WARWICK, RI
73138	BECKMAN INSTRUMENTS FULLERTON, CA
91506	AUGAT, INC. ATTLEBORO, MA
91637	DALE ELECTRONICS, INC. COLUMBUS, NE
95275	VITRAMON, INC. BRIDGEPORT, CT

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Chapter 6

OPTIONAL HARNESS ASSEMBLIES

The following harness assemblies are used to connect Racal Instruments Model 1260-30 to Freedom Series Test Receiver Interfaces.

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

407278	Virginia Panel, Inc. Series VP90 Interface Harness
407279	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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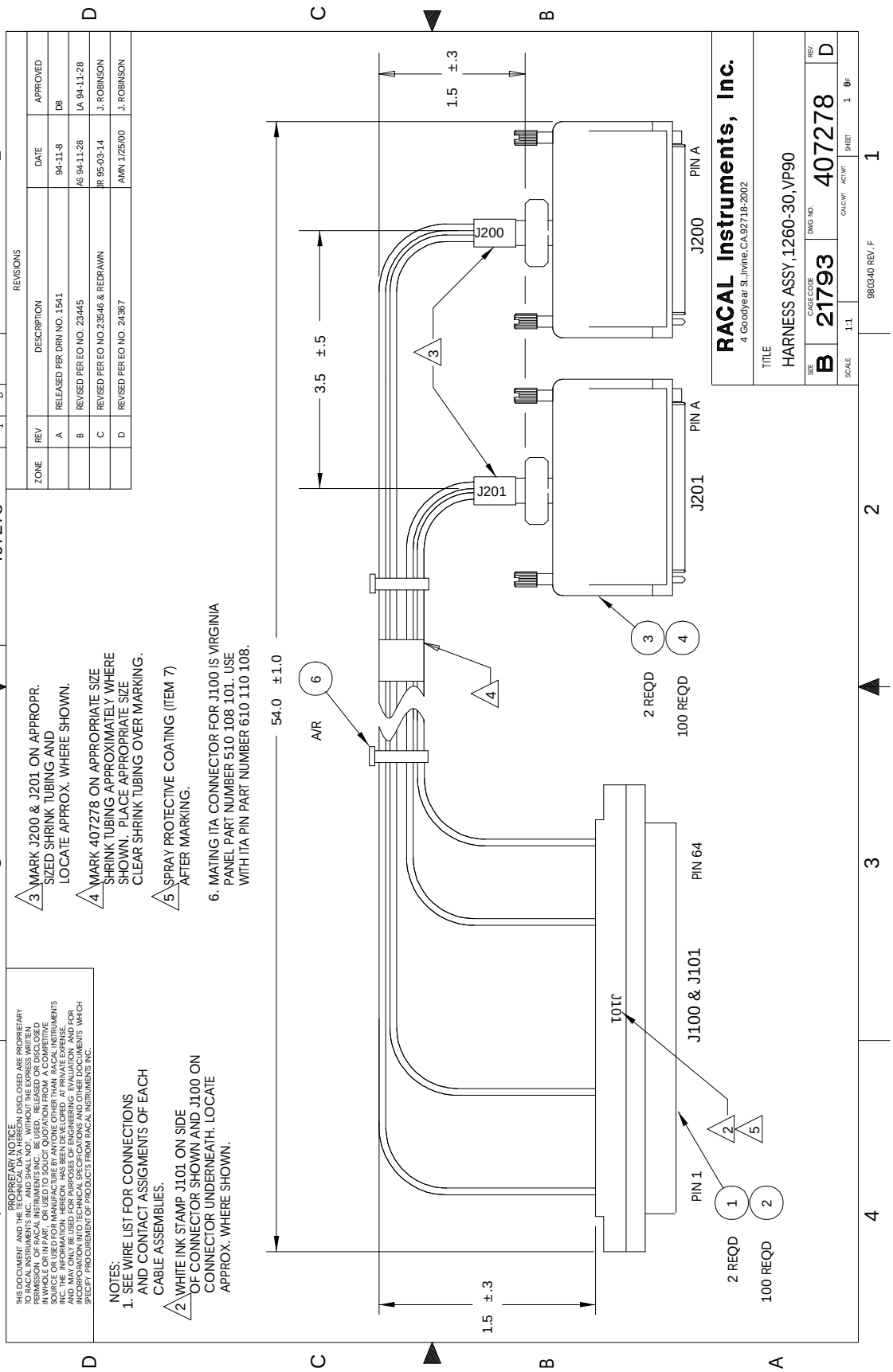
DWG. NO. 407278
SH 1
REV. D
REVISIONS
ZONE REV DESCRIPTION DATE APPROVED
A RELEASED PER DRN NO. 1541 94-11-8 DB
B REVISED PER EO NO. 23445 AS 94-11-28 LA 94-11-28
C REVISED PER EO NO.23546 & REDRAWN JR 95-03-14 J. ROBINSON
D REVISED PER EO NO. 24367 AMN 1/25/00 J. ROBINSON
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NOTES:
1. SEE WIRE LIST FOR CONNECTIONS AND CONTACT ASSIGMENTS OF EACH CABLE ASSEMBLIES.
2 WHITE INK STAMP J101 ON SIDE OF CONNECTOR SHOWN AND J100 ON CONNECTOR UNDERNEATH. LOCATE APPROX. WHERE SHOWN.
3 MARK J200 & J201 ON APPROPR. SIZED SHRINK TUBING AND LOCATE APPROX. WHERE SHOWN.
4 MARK 407278 ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN. PLACE APPROPRIATE SIZE CLEAR SHRINK TUBING OVER MARKING.
5 SPRAY PROTECTIVE COATING (ITEM 7) AFTER MARKING.
6. MATING ITA CONNECTOR FOR J100 IS VIRGINIA PANEL PART NUMBER 510 108 101. USE WITH ITA PIN PART NUMBER 610 110 108.
54.0 ±1.0
3.5 ±.5
1.5 ±.3
A/R
2 REQD
100 REQD
PIN 1
PIN 64
J100 & J101
J101
J200
J201
PIN A
RACAL Instruments, Inc.
4 Goodyear St.,Irvine,CA.92718-2002
TITLE
HARNESS ASSY,1260-30,VP90
SIZE B CAGE CODE 21793 DWG NO. 407278 REV. D
SCALE 1:1 CALC WT ACT WT SHEET 1 OF
980340 REV. F

ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		602201-001	CON-RCV-PLG064C.---D-VP90	2	J100-J101
2		602201-806	PATCHCORD,SIGNAL,24AWG,60"	100	W/J100-J101
3		601855-050	CON-CAB-PLG50CP	2	J200-J201
4		602092-001	CONT-SGMC MALE CRIMP	100	W/J200-J201
5					
6		610777	TIE-CA-LKG-.062-.075	A/R	
7		910541	POLYURETHANE CONF. COAT	A/R	

DOC. NO. 407278

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY,1260-30,VP90	A	21793	407278	D
	DRN			SHEET 2 of 9

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J200,J201)	CABLE	407278		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (J200,J201)	CABLE	407278		

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. 407278

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, VP90	A	21793	407278	D
	DRN			SHEET 3 of 9

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 (602201-001)	J200-L 602092-001	24 AWG WHT	602201-806	54"	COMMON 00 HI
2	J100-33 (602201-001)	J200-J 602092-001	24 AWG WHT	602201-806	54"	COMMON 00 LO
3	J100-2 (602201-001)	J200-d 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 00 HI
4	J100-34 (602201-001)	J200-b 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 00 LO
5	J100-3 (602201-001)	J200-y 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 01 HI
6	J100-35 (602201-001)	J200-w 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 01 LO
7	J100-4 (602201-001)	J201-V 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 02 HI
8	J100-36 (602201-001)	J201-T 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 02 LO
9	J100-5 (602201-001)	J201-p 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 03 HI
10	J100-37 (602201-001)	J201-m 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 03 LO
11	J100-6 (602201-001)	J201-HH 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 04 HI
12	J100-38 (602201-001)	J201-EE 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 04 LO
13	J100-7 NO CONNECT					
14	J100-39 NO CONNECT					
15	J100-8 (602201-001)	J200-E 602092-001	24 AWG WHT	602201-806	54"	COMMON 01 HI
16	J100-40 (602201-001)	J200-H 602092-001	24 AWG WHT	602201-806	54"	COMMON 01 LO
17	J100-9 (602201-001)	J200-Y 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 05 HI
18	J100-41 (602201-001)	J200-a 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 05 LO
19	J100-10 (602201-001)	J200-t 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 06 HI
20	J100-42 (602201-001)	J200-v 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 06 LO
21	J100-11 (602201-001)	J201-P 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 07 HI
22	J100-43 (602201-001)	J201-S 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 07 LO
23	J100-12 (602201-001)	J201-h 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 08 HI
24	J100-44 (602201-001)	J201-k 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 08 LO
25	J100-13 (602201-001)	J201-BB 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 09 HI

DOC. NO. 407278

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, VP90	A	21793	407278	D
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J100-45 (602201-001)	J201-DD 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 09 LO
27	J100-14 NO CONNECT					
28	J100-46 NO CONNECT					
29	J100-15 (602201-001)	J200-F 602092-001	24 AWG WHT	602201-806	54"	COMMON 02 HI
30	J100-47 (602201-001)	J200-D 602092-001	24 AWG WHT	602201-806	54"	COMMON 02 LO
31	J100-16 (602201-001)	J200-Z 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 10 HI
32	J100-48 (602201-001)	J200-X 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 10 LO
33	J100-17 (602201-001)	J200-u 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 11 HI
34	J100-49 (602201-001)	J200-s 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 11 LO
35	J100-18 (602201-001)	J201-R 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 12 HI
36	J100-50 (602201-001)	J201-N 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 12 LO
37	J100-19 (602201-001)	J201-j 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 13 HI
38	J100-51 (602201-001)	J201-f 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 13 LO
39	J100-20 (602201-001)	J201-CC 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 14 HI
40	J100-52 (602201-001)	J201-AA 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 14 LO
41	J100-21 NO CONNECT					
42	J100-53 NO CONNECT					
43	J100-22 (602201-001)	J200-A 602092-001	24 AWG WHT	602201-806	54"	COMMON 03 HI
44	J100-54 (602201-001)	J200-C 602092-001	24 AWG WHT	602201-806	54"	COMMON 03 LO
45	J100-23 (602201-001)	J200-U 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 15 HI
46	J100-55 (602201-001)	J200-W 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 15 LO
47	J100-24 (602201-001)	J200-n 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 16 HI
48	J100-56 (602201-001)	J200-r 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 16 LO
49	J100-25 (602201-001)	J201-K 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 17 HI
50	J100-57 (602201-001)	J201-M 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 17 LO

DOC. NO. 407278

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, VP90	A	21793	407278	D
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
51	J100-26 (602201-001)	J201-c 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 18 HI
52	J100-58 (602201-001)	J201-e 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 18 LO
53	J100-27 (602201-001)	J201-x 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 19 HI
54	J100-59 (602201-001)	J201-z 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 19 LO
55	J100-28 NO CONNECT					
56	J100-60 NO CONNECT					
57	J100-29 (602201-001)	J200-B 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
58	J100-61 NO CONNECT	J200-FF 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
59	J100-30 NO CONNECT					
60	J100-62 NO CONNECT					
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)	J201-L 602092-001	24 AWG WHT	602201-806	54"	COMMON 04 HI
66	J101-33 (602201-001)	J201-J 602092-001	24 AWG WHT	602201-806	54"	COMMON 04 LO
67	J101-2 (602201-001)	J200-V 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 20 HI
68	J101-34 (602201-001)	J200-T 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 20 LO
69	J101-3 (602201-001)	J200-p 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 21 HI
70	J101-35 (602201-001)	J200-m 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 21 LO
71	J101-4 (602201-001)	J200-HH 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 22 HI
72	J101-36 (602201-001)	J200-EE 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 22 LO
73	J101-5 (602201-001)	J201-d 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 23 HI
74	J101-37 (602201-001)	J201-b 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 23 LO
75	J101-6 (602201-001)	J201-y 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 24 HI

DOC. NO. 407278

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, VP90	A	21793	407278	D
	DRN			SHEET 6 of 9

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
76	J101-38 (602201-001)	J201-w 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 24 LO
77	J101-7 NO CONNECT					
78	J101-39 NO CONNECT					
79	J101-8 (602201-001)	J201-E 602092-001	24 AWG WHT	602201-806	54"	COMMON 05 HI
80	J101-40 (602201-001)	J201-H 602092-001	24 AWG WHT	602201-806	54"	COMMON 05 LO
81	J101-9 (602201-001)	J200-P 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 25 HI
82	J101-41 (602201-001)	J200-S 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 25 LO
83	J101-10 (602201-001)	J200-h 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 26 HI
84	J101-42 (602201-001)	J200-k 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 26 LO
85	J101-11 (602201-001)	J200-BB 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 27 HI
86	J101-43 (602201-001)	J200-DD 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 27 LO
87	J101-12 (602201-001)	J201-Y 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 28 HI
88	J101-44 (602201-001)	J201-a 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 28 LO
89	J101-13 (602201-001)	J201-t 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 29 HI
90	J101-45 (602201-001)	J201-v 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 29 LO
91	J101-14 NO CONNECT					
92	J101-46 NO CONNECT					
93	J101-15 (602201-001)	J201-F 602092-001	24 AWG WHT	602201-806	54"	COMMON 06 HI
94	J101-47 (602201-001)	J201-D 602092-001	24 AWG WHT	602201-806	54"	COMMON 06 LO
95	J101-16 (602201-001)	J200-R 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 30 HI
96	J101-48 (602201-001)	J200-N 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 30 LO
97	J101-17 (602201-001)	J200-j 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 31 HI
98	J101-49 (602201-001)	J200-f 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 31 LO
99	J101-18 (602201-001)	J200-CC 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 32 HI
100	J101-50 (602201-001)	J200-AA 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 32 LO

DOC. NO. 407278

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, VP90	A	21793	407278	D
	DRN			SHEET 7 of 9

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
101	J101-19 (602201-001)	J201-Z 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 33 HI
102	J101-51 (602201-001)	J201-X 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 33 LO
103	J101-20 (602201-001)	J201-u 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 34 HI
104	J101-52 (602201-001)	J201-s 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 34 LO
105	J101-21 NO CONNECT					
106	J101-53 NO CONNECT					
107	J101-22 (602201-001)	J201-A 602092-001	24 AWG WHT	602201-806	54"	COMMON 07 HI
108	J101-54 (602201-001)	J201-C 602092-001	24 AWG WHT	602201-806	54"	COMMON 07 LO
109	J101-23 (602201-001)	J200-K 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 35 HI
110	J101-55 (602201-001)	J200-M 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 35 LO
111	J101-24 (602201-001)	J200-c 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 36 HI
112	J101-56 (602201-001)	J200-e 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 36 LO
113	J101-25 (602201-001)	J200-x 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 37 HI
114	J101-57 (602201-001)	J200-z 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 37 LO
115	J101-26 (602201-001)	J201-U 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 38 HI
116	J101-58 (602201-001)	J201-W 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 38 LO
117	J101-27 (602201-001)	J201-n 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 39 HI
118	J101-59 (602201-001)	J201-r 602092-001	24 AWG WHT	602201-806	54"	CHANNEL 39 LO
119	J101-28 NO CONNECT					
120	J101-60 NO CONNECT					
121	J101-29 (602201-001)	J201-B 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
122	J101-61 (602201-001)	J201-FF 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
123	J101-30 NO CONNECT					
124	J101-62 NO CONNECT					
125	J101-31 NO CONNECT					

DOC. NO. 407278

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

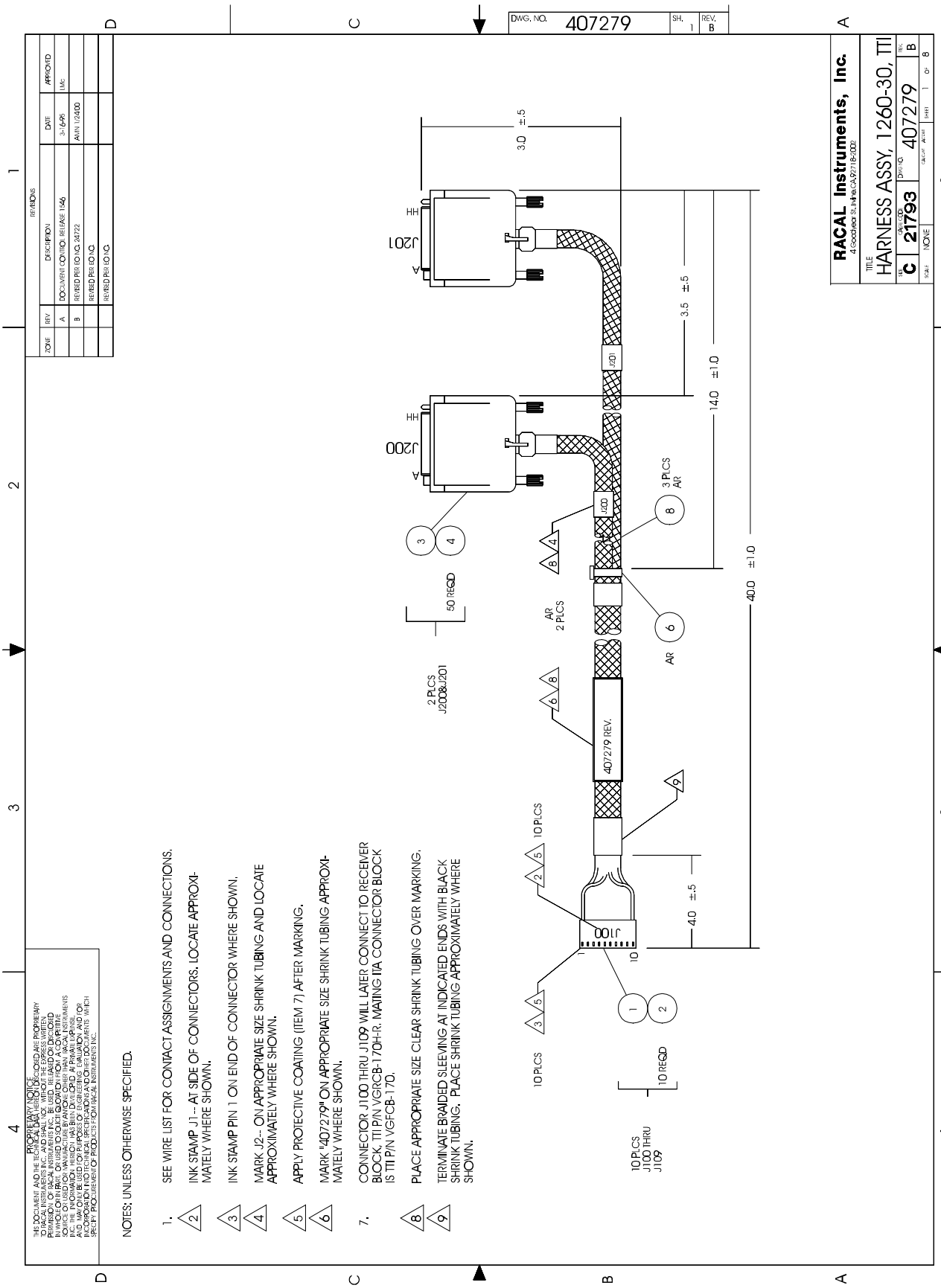
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, VP90	A	21793	407278	D
	DRN		SHEET 8 of 9	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
126	J101-63 NO CONNECT					
127	J101-32 NO CONNECT					
128	J101-64 NO CONNECT					

DOC. NO. 407278

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, VP90	A	21793	407278	D
	DRN			SHEET 9 of 9


REVISIONS
ZONE | REV. | DESCRIPTION | DATE | APPROVED
A | DOCUMENT CONTROL RELEASE 1146 | 3-16-95 | LMC
B | REVISED PER ECO NO. 24722 | AUG 1 2000
REVISED PER ECO NO.
REVISED PER ECO NO.
DWG. NO. 407279 SH. 1 REV. B
RACAL Instruments, Inc.
4 Goodyear St, Irvine CA 92718-2002
TITLE
HARNESS ASSY, 1260-30, TTI
SIZE C 21793 DWG NO. 407279 REV. B
SCALE NONE SHEET 1 OF 8
PROPRIETARY NOTICE
NOTES: UNLESS OTHERWISE SPECIFIED.
1. SEE WIRE LIST FOR CONTACT ASSIGNMENTS AND CONNECTIONS.
2 INK STAMP J1 -- AT SIDE OF CONNECTORS. LOCATE APPROXIMATELY WHERE SHOWN.
3 INK STAMP PIN 1 ON END OF CONNECTOR WHERE SHOWN.
4 MARK J2-- ON APPROPRIATE SIZE SHRINK TUBING AND LOCATE APPROXIMATELY WHERE SHOWN.
5 APPLY PROTECTIVE COATING (ITEM 7) AFTER MARKING.
6 MARK "407279" ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
7. CONNECTOR J100 THRU J109 WILL LATER CONNECT TO RECEIVER BLOCK, TTI P/N VGRCB-170H-R. MATING ITA CONNECTOR BLOCK IS TTI P/N VGFCB-170.
8 PLACE APPROPRIATE SIZE CLEAR SHRINK TUBING OVER MARKING.
9 TERMINATE BRAIDED SLEEVING AT INDICATED ENDS WITH BLACK SHRINK TUBING. PLACE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
10 PLCS J100 THRU J109
10 REQD
10 PLCS
J100
407279 REV.
2 PLCS J200&J201
50 REQD
J200
J201
AR 2 PLCS
AR
3 PLCS AR
3.0 ±.5
3.5 ±.5
14.0 ±1.0
40.0 ±1.0
4.0 ±.5

ENGINEERING PARTS LIST

ITEM	REV	PART NO.	DESCRIPTION	QTY	REFERENCE
1		602193-010	CON-CAB-RCP010C.100S	10	J100-J109
2		602199-001	CONTACT,CRIMP,RECPT,28-22G	100	W/J100-J109
3		601855-050	CON-CAB-PLG50CP.100P	2	J200-J201
4		602092-001	CONT,SGMC MALE CRIMPMC	100	W/J200-J201
5		524999	WRTEF-STR24G-9-9-9	AR	333 FEET
6		610777	TIE-CA-LKG-.062-.075	AR	
7		910541	POLYURETHANE CONF. COAT	AR	
8		GRP-110-1/2	TBGWOV-POY.250ID-BLACK	AR	

DOC. NO. 407279

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92618

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, TTI	A	21793	407279	B
	DRN			SHEET 2 of 8

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx RW 01 (J100)	Uxx-SLOT yy (J200-J201)	CABLE	407279		SYSTEM WIRE LIST
	BLK AAx RW 02 (J101)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 03 (J102)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 04 (J103)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 05 (J104)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 06 (J105)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 07 (J106)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 08 (J107)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 09 (J108)	Uxx-SLOT yy (J200-J201)	CABLE	407279		
	BLK AAx RW 10 (J109)	Uxx-SLOT yy (J200-J201)	CABLE	407279		

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. 407279

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-30, TTI	A	21793	407279	B
	DRN		SHEET 3 of 8	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 602199-001	J200-L 602092-001	24 AWG WHT	524999	40"	COMMON 00 HI
2	J100-2 602199-001	J200-J 602092-001	24 AWG WHT	524999	40"	COMMON 00 LO
3	J100-3 602199-001	J200-d 602092-001	24 AWG WHT	524999	40"	CHANNEL 00 HI
4	J100-4 602199-001	J200-b 602092-001	24 AWG WHT	524999	40"	CHANNEL 00 LO
5	J100-5 602199-001	J200-y 602092-001	24 AWG WHT	524999	40"	CHANNEL 01 HI
6	J100-6 602199-001	J200-w 602092-001	24 AWG WHT	524999	40"	CHANNEL 01 LO
7	J100-7 602199-001	J201-V 602092-001	24 AWG WHT	524999	40"	CHANNEL 02 HI
8	J100-8 602199-001	J201-T 602092-001	24 AWG WHT	524999	40"	CHANNEL 02 LO
9	J100-9 602199-001	J201-p 602092-001	24 AWG WHT	524999	40"	CHANNEL 03 HI
10	J100-10 602199-001	J201-m 602092-001	24 AWG WHT	524999	40"	CHANNEL 03 LO
11	J101-10 602199-001	J201-HH 602092-001	24 AWG WHT	524999	40"	CHANNEL 04 HI
12	J101-9 602199-001	J201-EE 602092-001	24 AWG WHT	524999	40"	CHANNEL 04 LO
13	J101-8 602199-001	J200-E 602092-001	24 AWG WHT	524999	40"	COMMON 01 HI
14	J101-7 602199-001	J200-H 602092-001	24 AWG WHT	524999	40"	COMMON 01 LO
15	J101-6 602199-001	J200-Y 602092-001	24 AWG WHT	524999	40"	CHANNEL 05 HI
16	J101-5 602199-001	J200-a 602092-001	24 AWG WHT	524999	40"	CHANNEL 05 LO
17	J101-4 602199-001	J200-t 602092-001	24 AWG WHT	524999	40"	CHANNEL 06 HI
18	J101-3 602199-001	J200-v 602092-001	24 AWG WHT	524999	40"	CHANNEL 06 LO
19	J101-2 602199-001	J201-P 602092-001	24 AWG WHT	524999	40"	CHANNEL 07 HI
20	J101-1 602199-001	J201-S 602092-001	24 AWG WHT	524999	40"	CHANNEL 07 LO
21	J102-1 602199-001	J201-h 602092-001	24 AWG WHT	524999	40"	CHANNEL 08 HI
22	J102-2 602199-001	J201-k 602092-001	24 AWG WHT	524999	40"	CHANNEL 08 LO
23	J102-3 602199-001	J201-BB 602092-001	24 AWG WHT	524999	40"	CHANNEL 09 HI
24	J102-4 602199-001	J201-DD 602092-001	24 AWG WHT	524999	40"	CHANNEL 09 LO
25	J102-5 602199-001	J200-F 602092-001	24 AWG WHT	524999	40"	COMMON 02 HI

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J102-6 602199-001	J200-D 602092-001	24 AWG WHT	524999	40"	COMMON 02 LO
27	J102-7 602199-001	J200-Z 602092-001	24 AWG WHT	524999	40"	CHANNEL 10 HI
28	J102-8 602199-001	J200-X 602092-001	24 AWG WHT	524999	40"	CHANNEL 10 LO
29	J102-9 602199-001	J200-u 602092-001	24 AWG WHT	524999	40"	CHANNEL 11 HI
30	J102-10 602199-001	J200-s 602092-001	24 AWG WHT	524999	40"	CHANNEL 11 LO
31	J103-10 602199-001	J201-R 602092-001	24 AWG WHT	524999	40"	CHANNEL 12 HI
32	J103-9 602199-001	J201-N 602092-001	24 AWG WHT	524999	40"	CHANNEL 12 LO
33	J103-8 602199-001	J201-j 602092-001	24 AWG WHT	524999	40"	CHANNEL 13 HI
34	J103-7 602199-001	J201-f 602092-001	24 AWG WHT	524999	40"	CHANNEL 13 LO
35	J103-6 602199-001	J201-CC 602092-001	24 AWG WHT	524999	40"	CHANNEL 14 HI
36	J103-5 602199-001	J201-AA 602092-001	24 AWG WHT	524999	40"	CHANNEL 14 LO
37	J103-4 602199-001	J200-A 602092-001	24 AWG WHT	524999	40"	COMMON 03 HI
38	J103-3 602199-001	J200-C 602092-001	24 AWG WHT	524999	40"	COMMON 03 LO
39	J103-2 602199-001	J200-U 602092-001	24 AWG WHT	524999	40"	CHANNEL 15 HI
40	J103-1 602199-001	J200-W 602092-001	24 AWG WHT	524999	40"	CHANNEL 15 LO
41	J104-1 602199-001	J200-n 602092-001	24 AWG WHT	524999	40"	CHANNEL 16 HI
42	J104-2 602199-001	J200-r 602092-001	24 AWG WHT	524999	40"	CHANNEL 16 LO
43	J104-3 602199-001	J201-K 602092-001	24 AWG WHT	524999	40"	CHANNEL 17 HI
44	J104-4 602199-001	J201-M 602092-001	24 AWG WHT	524999	40"	CHANNEL 17 LO
45	J104-5 602199-001	J201-c 602092-001	24 AWG WHT	524999	40"	CHANNEL 18 HI
46	J104-6 602199-001	J201-e 602092-001	24 AWG WHT	524999	40"	CHANNEL 18 LO
47	J104-7 602199-001	J201-x 602092-001	24 AWG WHT	524999	40"	CHANNEL 19 HI
48	J104-8 602199-001	J201-z 602092-001	24 AWG WHT	524999	40"	CHANNEL 19 LO
49	J104-9 602199-001	J201-L 602092-001	24 AWG WHT	524999	40"	COMMON 04 HI
50	J104-10 602199-001	J201-J 602092-001	24 AWG WHT	524999	40"	COMMON 04 LO

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
51	J105-10 602199-001	J200-V 602092-001	24 AWG WHT	524999	40"	CHANNEL 20 HI
52	J105-9 602199-001	J200-T 602092-001	24 AWG WHT	524999	40"	CHANNEL 20 LO
53	J105-8 602199-001	J200-p 602092-001	24 AWG WHT	524999	40"	CHANNEL 21 HI
54	J105-7 602199-001	J200-m 602092-001	24 AWG WHT	524999	40"	CHANNEL 21 LO
55	J105-6 602199-001	J200-HH 602092-001	24 AWG WHT	524999	40"	CHANNEL 22 HI
56	J105-5 602199-001	J200-EE 602092-001	24 AWG WHT	524999	40"	CHANNEL 22 LO
57	J105-4 602199-001	J201-d 602092-001	24 AWG WHT	524999	40"	CHANNEL 23 HI
58	J105-3 602199-001	J201-b 602092-001	24 AWG WHT	524999	40"	CHANNEL 23 LO
59	J105-2 602199-001	J201-y 602092-001	24 AWG WHT	524999	40"	CHANNEL 24 HI
60	J105-1 602199-001	J201-w 602092-001	24 AWG WHT	524999	40"	CHANNEL 24 LO
61	J106-1 602199-001	J201-E 602092-001	24 AWG WHT	524999	40"	COMMON 05 HI
62	J106-2 602199-001	J201-H 602092-001	24 AWG WHT	524999	40"	COMMON 05 LO
63	J106-3 602199-001	J200-P 602092-001	24 AWG WHT	524999	40"	CHANNEL 25 HI
64	J106-4 602199-001	J200-S 602092-001	24 AWG WHT	524999	40"	CHANNEL 25 LO
65	J106-5 602199-001	J200-h 602092-001	24 AWG WHT	524999	40"	CHANNEL 26 HI
66	J106-6 602199-001	J200-k 602092-001	24 AWG WHT	524999	40"	CHANNEL 26 LO
67	J106-7 602199-001	J200-BB 602092-001	24 AWG WHT	524999	40"	CHANNEL 27 HI
68	J106-8 602199-001	J200-DD 602092-001	24 AWG WHT	524999	40"	CHANNEL 27 LO
69	J106-9 602199-001	J201-Y 602092-001	24 AWG WHT	524999	40"	CHANNEL 28 HI
70	J106-10 602199-001	J201-a 602092-001	24 AWG WHT	524999	40"	CHANNEL 28 LO
71	J107-10 602199-001	J201-t 602092-001	24 AWG WHT	524999	40"	CHANNEL 29 HI
72	J107-9 602199-001	J201-v 602092-001	24 AWG WHT	524999	40"	CHANNEL 29 LO
73	J107-8 602199-001	J201-F 602092-001	24 AWG WHT	524999	40"	COMMON 06 HI
74	J107-7 602199-001	J201-D 602092-001	24 AWG WHT	524999	40"	COMMON 06 LO
75	J107-6 602199-001	J200-R 602092-001	24 AWG WHT	524999	40"	CHANNEL 30 HI

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
76	J107-5 602199-001	J200-N 602092-001	24 AWG WHT	524999	40"	CHANNEL 30 LO
77	J107-4 602199-001	J200-j 602092-001	24 AWG WHT	524999	40"	CHANNEL 31 HI
78	J107-3 602199-001	J200-f 602092-001	24 AWG WHT	524999	40"	CHANNEL 31 LO
79	J107-2 602199-001	J200-CC 602092-001	24 AWG WHT	524999	40"	CHANNEL 32 HI
80	J107-1 602199-001	J200-AA 602092-001	24 AWG WHT	524999	40"	CHANNEL 32 LO
81	J108-1 602199-001	J201-Z 602092-001	24 AWG WHT	524999	40"	CHANNEL 33 HI
82	J108-2 602199-001	J201-X 602092-001	24 AWG WHT	524999	40"	CHANNEL 33 LO
83	J108-3 602199-001	J201-u 602092-001	24 AWG WHT	524999	40"	CHANNEL 34 HI
84	J108-4 602199-001	J201-s 602092-001	24 AWG WHT	524999	40"	CHANNEL 34 LO
85	J108-5 602199-001	J201-A 602092-001	24 AWG WHT	524999	40"	COMMON 07 HI
86	J108-6 602199-001	J201-C 602092-001	24 AWG WHT	524999	40"	COMMON 07 LO
87	J108-7 602199-001	J200-K 602092-001	24 AWG WHT	524999	40"	CHANNEL 35 HI
88	J108-8 602199-001	J200-M 602092-001	24 AWG WHT	524999	40"	CHANNEL 35 LO
89	J108-9 602199-001	J200-c 602092-001	24 AWG WHT	524999	40"	CHANNEL 36 HI
90	J108-10 602199-001	J200-e 602092-001	24 AWG WHT	524999	40"	CHANNEL 36 LO
91	J109-10 602199-001	J200-x 602092-001	24 AWG WHT	524999	40"	CHANNEL 37 HI
92	J109-9 602199-001	J200-z 602092-001	24 AWG WHT	524999	40"	CHANNEL 37 LO
93	J109-8 602199-001	J201-U 602092-001	24 AWG WHT	524999	40"	CHANNEL 38 HI
94	J109-7 602199-001	J201-W 602092-001	24 AWG WHT	524999	40"	CHANNEL 38 LO
95	J109-6 602199-001	J201-n 602092-001	24 AWG WHT	524999	40"	CHANNEL 39 HI
96	J109-5 602199-001	J201-r 602092-001	24 AWG WHT	524999	40"	CHANNEL 39 LO
97	J109-4 602199-001	J200-B 602092-001	24 AWG WHT	524999	40"	CHASSIS GND
98	J109-3 602199-001	J200-FF 602092-001	24 AWG WHT	524999	40"	CHASSIS GND
99	J109-2 602199-001	J201-B 602092-001	24 AWG WHT	524999	40"	CHASSIS GND

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
100	J109-1 602199-001	J201-FF 602092-001	24 AWG WHT	524999	40"	CHASSIS GND

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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 1260-30 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.

Support Offices

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

Racal Instruments, Ltd.
480 Bath Road, Slough, Berkshire, SL1 6BE, United Kingdom
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.
Strada 2-Palazzo C4, 20090 Milanofiori Assago, Milan, Italy
Tel: +39 (02) 5750 1796; FAX +39 (02) 5750 1828

Racal Elektronik System GmbH.
Frankenforster Strasse 21, 51427 Bergisch Gladbach, Germany
Tel:+49 2204 92220; FAX: +49 2204 21491

Racal Australia Pty. Ltd.
3 Powells Road, Brookvale, NSW 2100, Australia
Tel: +61 (2) 9936 7000, FAX: +61 (2) 9936 7036

Racal Electronics Pte. Ltd.
26 Ayer Rajah Crescent, 04-06/07 Ayer Rajah Industrial Estate, Singapore 0513.
Tel: +65 7792200, FAX: +65 7785400

Racal Instruments, Ltd.
Unit 5, 25F., Mega Trade Center, No 1, Mei Wan Road, Tsuen Wan, Hong Kong, PRC
Tel: +852 2405 5500, FAX: +852 2416 4335