1260 VXI SWITCHING CARD

SWITCH MODULE

MODEL 1260-40

PUBLICATION NO. 980673-007

RACAL INSTRUMENTS

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

2. 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.

Racal Instruments

EC Declaration of Conformity

We

Racal Instruments Inc.
4 Goodyear Street
Irvine, CA 92718

declare under sole responsibility that the

1260-40A Signal Matrix Module, P/N 404775-001
1260-40B Signal Matrix Module, P/N 404775-002
1260-40C Signal Matrix Module, P/N 404775-003

They conform to the following Product Specifications:

Safety: EN61010-1:1993+A2:1995

EMC: EN61326:1997+A1:1998

Supplementary Information:

The above specifications are met when the product is installed in a Racal Instruments certified mainframe with faceplates installed over all unused slots, as applicable

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (modified by 93/68/EEC).

Irvine, CA, April 25, 2002 Karen L Tongue
Engineering Director

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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 which 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 which 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, with 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 which are available for the 1260-01T.

Control Information for the 1260-40A

The following information describes the control-register-to-relay-channel mapping for a 1260-40A Relay Module. This information may be used to control a 1260-40A 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
0000	0	0
0001	0	4
0002	3	0
0003	3	4
0004	1	0
0005	1	4
0006	4	0
0007	4	4
0008	2	0
0009	2	4
0010	5	0
0011	5	4
0012	6	0
0013	6	4
0014	9	0
0015	9	4
0016	7	0
0017	7	4
0018	10	0
0019	10	4
0020	8	0

Channel	Control Register	Control Bit
0021	8	4
0022	11	0
0023	11	4
0100	0	1
0101	0	5
0102	3	1
0103	3	5
0104	1	1
0105	1	5
0106	4	1
0107	4	5
0108	2	1
0109	2	5
0110	5	1
0111	5	5
0112	6	1
0113	6	5
0114	9	1
0115	9	5
0116	7	1
0117	7	5
0118	10	1
0119	10	5
0120	8	1
0121	8	5
0122	11	1
0123	11	5
0200	0	2
0201	0	6
0202	3	2
0203	3	6
0204	1	2
0205	1	6
0206	4	2
0207	4	6
0208	2	2
0209	2	6
0210	5	2
0211	5	6

Channel	Control Register	Control Bit
0212	6	2
0213	6	6
0214	9	2
0215	9	6
0216	7	2
0217	7	6
0218	10	2
0219	10	6
0220	8	2
0221	8	6
0222	11	2
0223	11	6
0300	0	3
0301	0	7
0302	3	3
0303	3	7
0304	1	3
0305	1	7
0306	4	3
0307	4	7
0308	2	3
0309	2	7
0310	5	3
0311	5	7
0312	6	3
0313	6	7
0314	9	3
0315	9	7
0316	7	3
0317	7	7
0318	10	3
0319	10	7
0320	8	3
0321	8	7
0322	11	3
0323	11	7

Control Information for the 1260-40B

The following information describes the control-register-to-relay-channel mapping for a 1260-40B Relay Module. This information may be used to control a 1260-40B 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
0000	0	0
0001	0	4
0002	3	0
0003	3	4
0004	1	0
0005	1	4
0006	4	0
0007	4	4
0008	2	0
0009	2	4
0010	5	0
0011	5	4
0100	0	1
0101	0	5
0102	3	1
0103	3	5
0104	1	1
0105	1	5
0106	4	1
0107	4	5
0108	2	1

Channel	Control Register	Control Bit
0109	2	5
0110	5	1
0111	5	5
0200	0	2
0201	0	6
0202	3	2
0203	3	2
0204	1	2
0205	1	6
0206	4	2
0207	4	6
0208	2	2
0209	2	6
0210	5	2
0211	5	6
0300	0	3
0301	0	7
0302	3	3
0303	3	7
0304	1	3
0305	1	7
0306	4	3
0307	4	7
0308	2	3
0309	2	7
0310	5	3
0311	5	7
0400	6	0
0401	6	4
0402	9	0
0403	9	4
0404	7	0
0405	7	4
0406	10	0
0407	10	4
0408	8	0
0409	8	4
0410	11	0
0411	11	4

Channel	Control Register	Control Bit
0500	6	1
0501	6	5
0502	9	1
0503	9	5
0504	7	1
0505	7	5
0506	10	1
0507	10	5
0508	8	1
0509	8	5
0510	11	1
0511	11	5
0600	6	2
0601	6	6
0602	9	2
0603	9	2
0604	7	2
0605	7	6
0606	10	2
0607	10	6
0608	8	2
0609	8	6
0610	11	2
0611	11	6
0700	6	3
0701	6	7
0702	9	3
0703	9	7
0704	7	3
0705	7	7
0706	10	3
0707	10	7
0708	8	3
0709	8	7
0710	11	3
0711	11	7

Control Information for the 1260-40C

The following information describes the control-register-to-relay-channel mapping for a 1260-40C Relay Module. This information may be used to control a 1260-40C 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
0000	0	0
0001	0	4
0002	3	0
0003	3	4
0004	1	0
0005	1	4
0006	4	0
0007	4	4
0008	2	0
0009	2	4
0010	5	0
0011	5	4
0100	0	1
0101	0	5
0102	3	1
0103	3	5
0104	1	1
0105	1	5
0106	4	1
0107	4	5
0108	2	1

Channel	Control Register	Control Bit
0109	2	5
0110	5	1
0111	5	5
0200	0	2
0201	0	6
0202	3	2
0203	3	2
0204	1	2
0205	1	6
0206	4	2
0207	4	6
0208	2	2
0209	2	6
0210	5	2
0211	5	6
0300	0	3
0301	0	7
0302	3	3
0303	3	7
0304	1	3
0305	1	7
0306	4	3
0307	4	7
0308	2	3
0309	2	7
0310	5	3
0311	5	7
1000	6	0
1001	6	4
1002	9	0
1003	9	4
1004	7	0
1005	7	4
1006	10	0
1007	10	4
1008	8	0
1009	8	4
1010	11	0
1011	11	4

Channel	Control Register	Control Bit
1100	6	1
1101	6	5
1102	9	1
1103	9	5
1104	7	1
1105	7	5
1106	10	1
1107	10	5
1108	8	1
1109	8	5
1110	11	1
1111	11	5
1200	6	2
1201	6	6
1202	9	2
1203	9	2
1204	7	2
1205	7	6
1206	10	2
1207	10	6
1208	8	2
1209	8	6
1210	11	2
1211	11	6
1300	6	3
1301	6	7
1302	9	3
1303	9	7
1304	7	3
1305	7	7
1306	10	3
1307	10	7
1308	8	3
1309	8	7
1310	11	3
1311	11	7

Table of Contents

List of Figures

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Chapter 1
MODULE SPECIFICATION

1260-40 Signal Matrix Module

The 1260-40 Signal Matrix Module is a 4 x 24 matrix. It switches two lines per channel and has the capability of being configured as two 4 x 12 matrices or one 8 x 12 matrix. The configuration is determined at the time of ordering, and is set in the factory. An expansion port is provided to allow the 1260-40 to be used as part of a larger matrix.

Switch Configurations

1260-40A: One 4x24 two wire matrix
1260-40B: One 8x12 two wire matrix
1260-40C: Two 4x12 two wire matrix

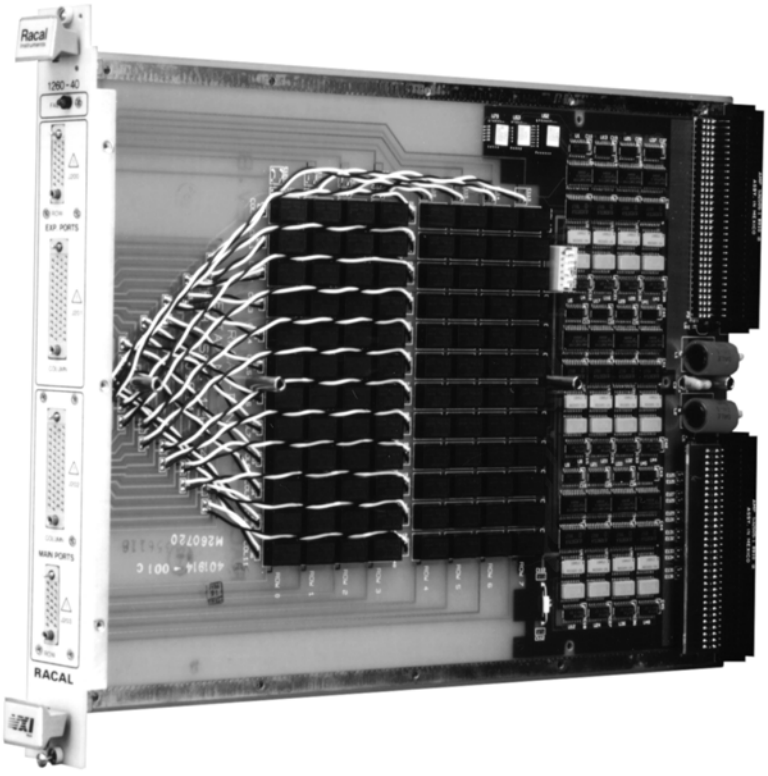
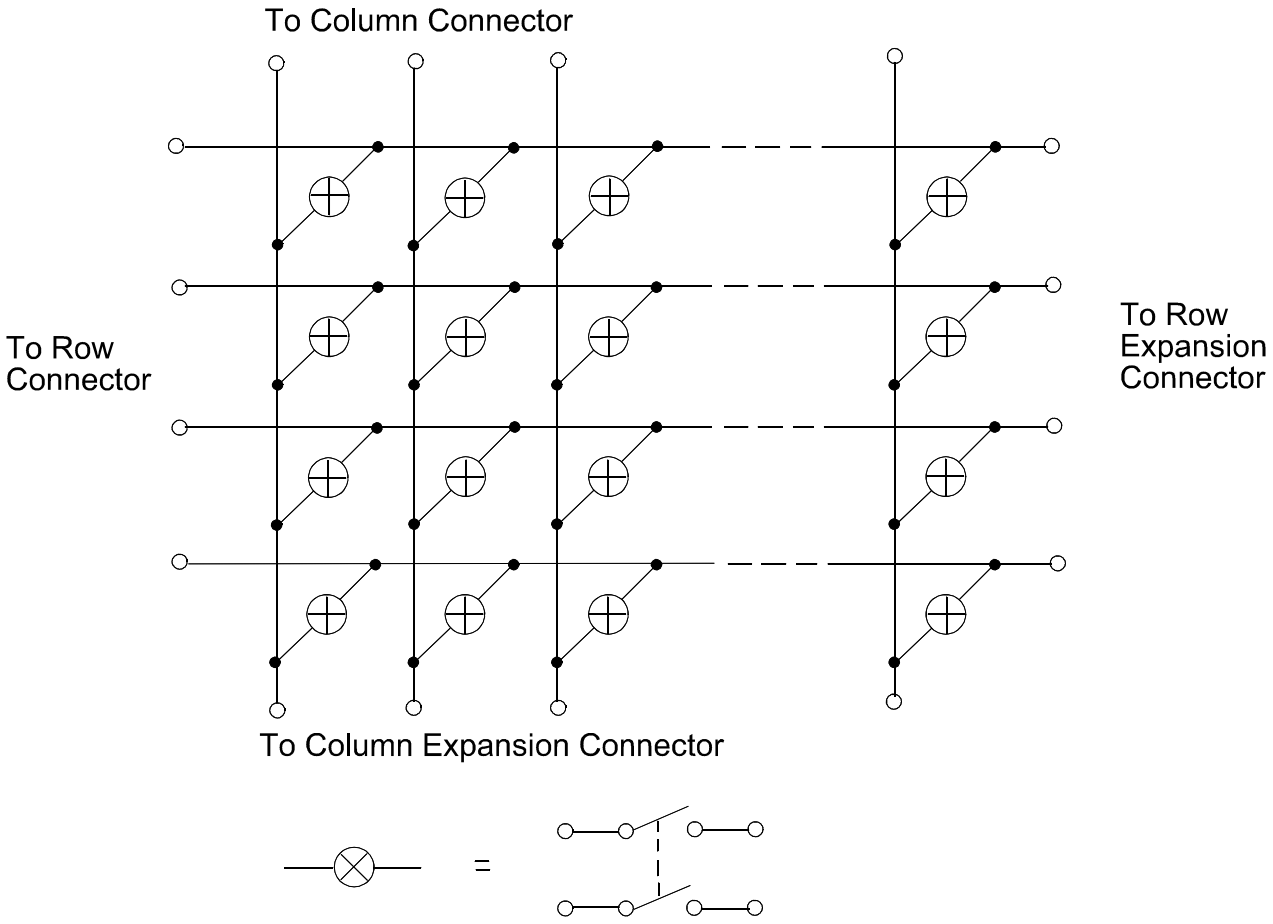


Figure 1-1 1260-40



Model 1260-40 4X24 two-wire matrix configuration with provisions for expansion connector.

Figure 1-2 1260-40 Functional Diagram.

Specifications

User Connector	Quick Disconnect
Maximum Switchable Voltage	
(Terminal -Terminal or Terminal-Chassis)	250 VDC, 250 VAC RMS
Maximum Switchable Current Per Channel	1 ADC, 1A RMS
Maximum Switchable Power Per Channel	30 W DC, *62.5* VA AC
Path Resistance	<1Ω
Isolation Hi-Lo	$>10^{10}\Omega$
Capacitance	
Open Channel:	<10 pF
Channel-Chassis:	<70 pF
Hi-Lo:	<40 pF (typical)
Bandwidth, 50Ω Termination	20 MHz (typical)
Insertion Loss, 50Ω Termination	<.30 dB to 100 kHz <1dB to 1 MHz <3.00 dB to 20 MHz
Crosstalk, 50Ω Termination	<-70 dB to 100 kHz <-50 dB to 1 MHz <-20 dB to 10 MHz
Switching Time	2 mS
Minimum Option 01 Firmware	
Revision	17.1
Cooling Requirements	
Airflow	4 litres *I* sec
Backpressure	0.5 mm H_20
Power Requirements (I_{Pm})	
+5 V	0.4A (2.8A Option 01 installed)
+24 V	10 mA per energized relay
Weight	1.17Kg *(2.59* lbs) 1.30 Kg (2.87 lbs) with Option 01

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Chapter 2

INSTALLATION INSTRUCTIONS

Unpacking and Inspection

1. Remove the 1260-40 module and inspect it for damage. If any damage is apparent, inform the carrier immediately. Retain shipping carton and packing material for the carrier's inspection.

2. Verify that the pieces in the package you received contain the correct 1260-40 module option and the 1260-40 Users Manual. Notify Racal Instruments if the module appears damaged in any way. Do not attempt to install a damaged module into a VXI chassis.

3. The 1260-40 module is shipped in an anti-static bag to prevent electrostatic damage to the module. Do not remove the module from the anti-static bag unless it is in a static-controlled area.

Reshipment Instructions

1. 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.

2. If the original packing 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 *126040* is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

Module Installation

Installation of the 1260-40 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.

1260-40 ID Byte

Each configuration of the 126040 will respond to different sets of values for <group number>, <row number> and <column number>. The set of values the 126040 will respond to is controlled by switches 5 and 6 on DIP switch S1 on the 1260-40 PCB. The switch settings that correspond to the three configurations are as follows:

Model Configuration		S1 Switches 5	6
1260-40A	One 4 X 24	Off	Off
1260-40B	One 8 X 12	On	Off
1260-40C	One 4 X 12	Off	On
Reserved for future use		On	On

Chapter 3
MODULE SPECIFIC SYNTAX

1260-40 Module Specific Syntax

The Module Specific Syntax for the 1260-40 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 126040 4 x 24 Signal Matrix module is as follows:

<module address>.<group number><rownumber><columnnumber>

where <module address> is the address.

NOTE:

The <module address> used here is not the VXIbus defined logical address of the 1260 Series 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.

<group number> is a reference to the matrix containing the relay to be switched. It is value 0 for the 126040A and 126040B, and value 0 or 1 for the 1260-4OC. The 1260-4OA and 1260-4OB contain only one matrix and <group number> may be omitted if desired.

<rownumber> is the matrix row to be connected to column <columnnumber>, value 0 - 3 or 0-7 depending on the configuration set.

<columnnumber> is the matrix column to be connected to row <rownumber>, value 0 - 12 or 0-23, depending on the configuration set.

Refer to **Figures 3-1**, **3-2** and **3-3** for the group numbers, row

numbers, column numbers and connector pins to be used in the various configurations of the 124040. Note that **Figure 3-3** shows the <group number> and <row number> together.

If more than one connection is to be made or broken with contiguous rows or columns, the following format is supported:

<module address>. <rownumber> <columnnumber>-<row number><columnnumber>

Example: OPEN 3.0101-0304

This OPEN statement has the same effect as a series of open commands to open all of the connections between Rows I through 3, and Columns 1 through 4.

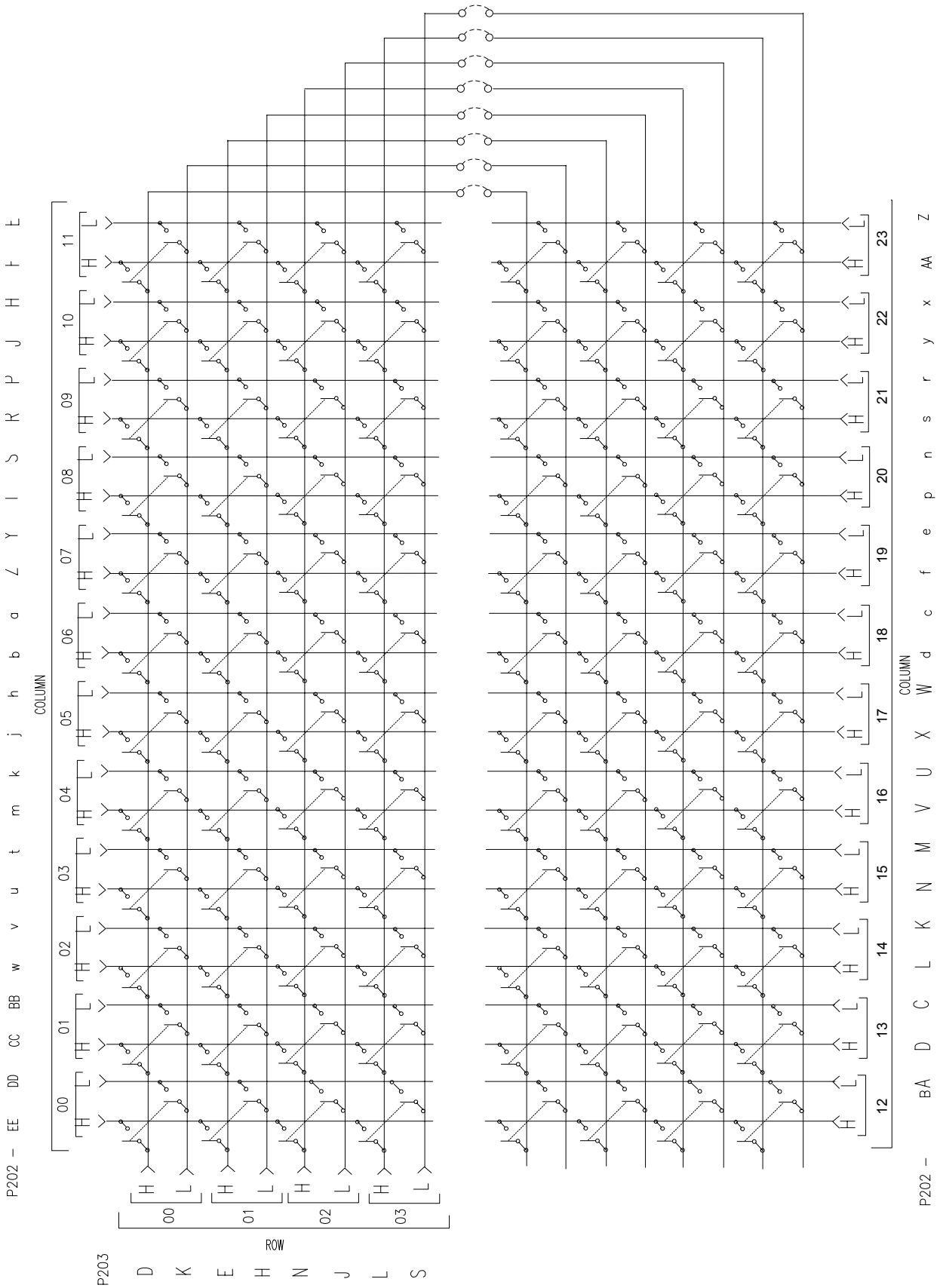


Figure 3-1 1260-40A Configuration

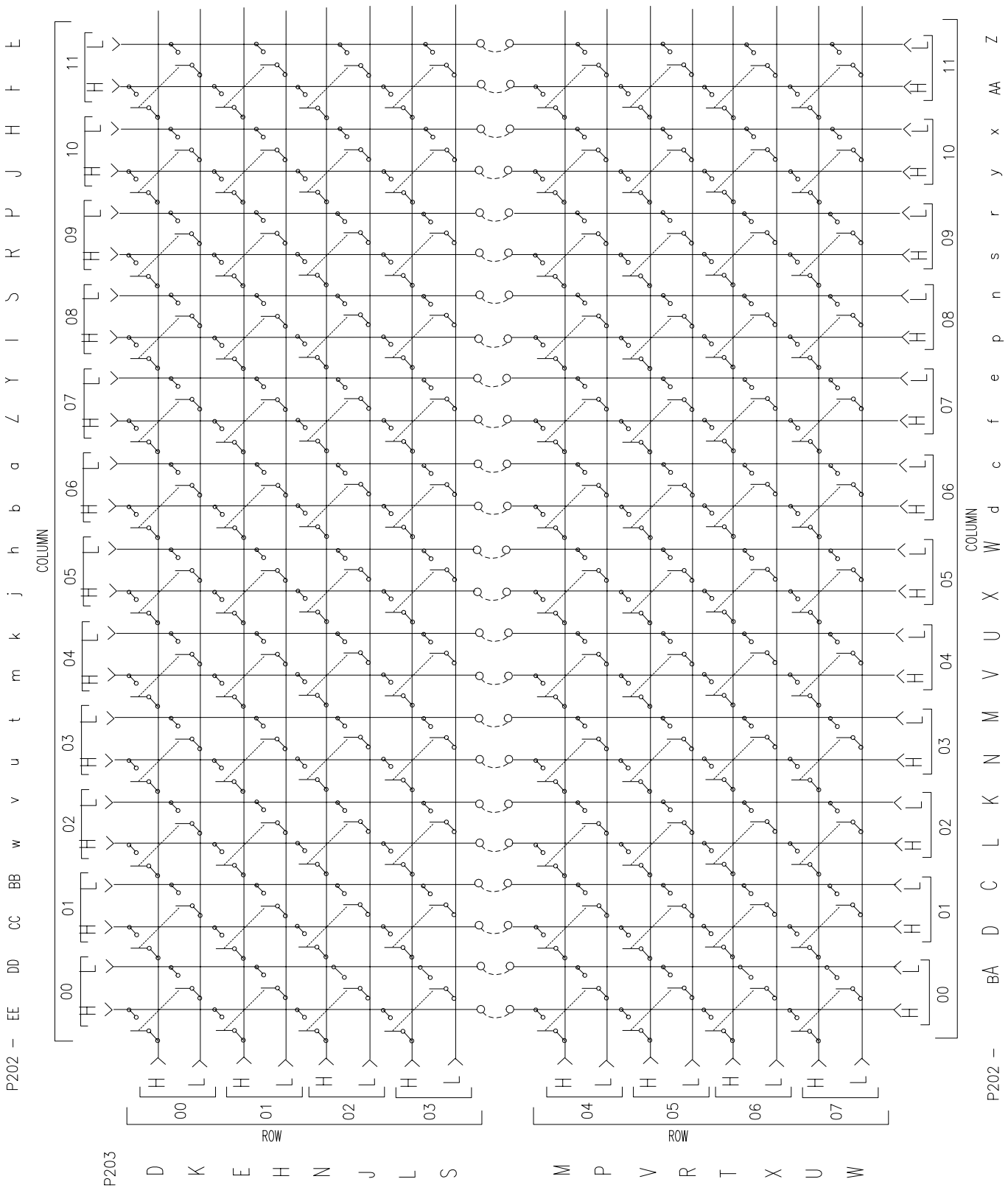


Figure 3-2 1260-40B Configuration

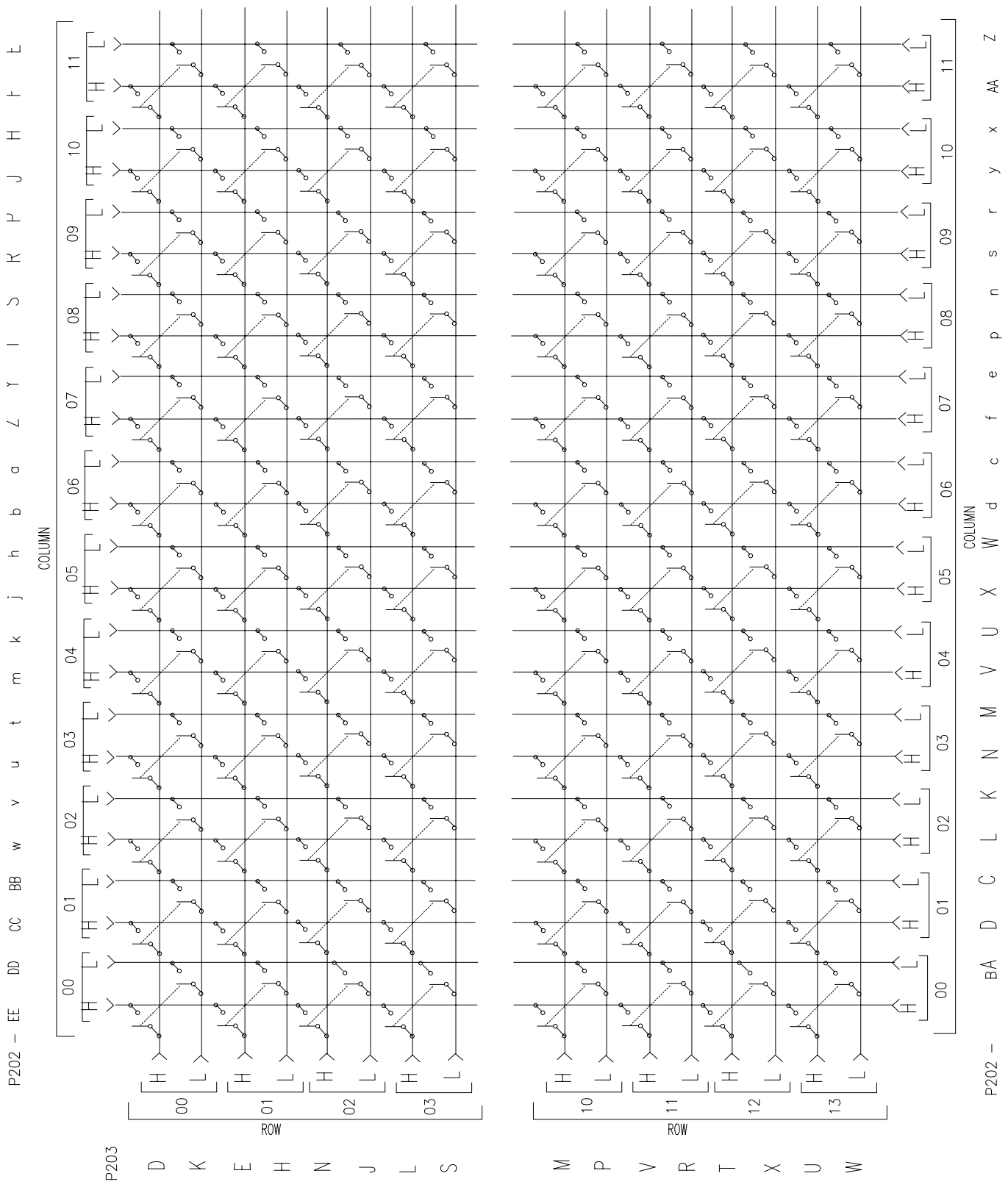


Figure 3-3 1260-40C Configuration

1260-40 Connector Pin Configuration

Refer to **Figures 3-4** and **3-5** for the pin configurations of P200, P201, P202, and P203 on the 1260-40.

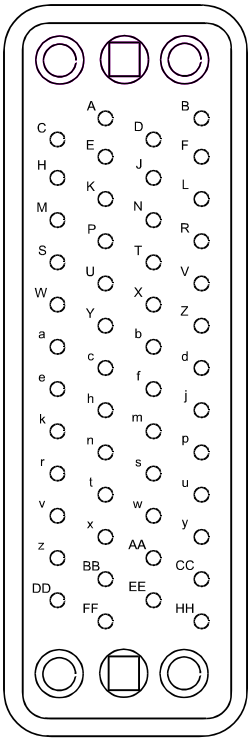


Figure 3-4 1260-40 P201 and P202 Pin Configuration

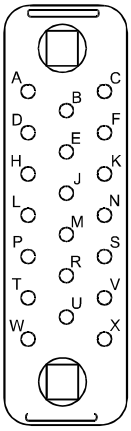
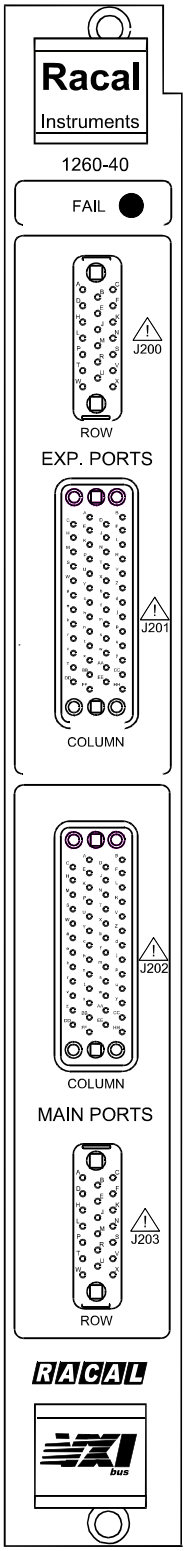


Figure 3-5 1260-40 P200 and P203 Pin Configuration



1260-40 Expansion Port

The 1260-40 matrix row and column connections on P203 and P202 are in parallel with expansion ports P200 and P201 to allow the 1260-40 to be used in the configuration of matrices larger than those that may be configured by the 1260-40 alone The pin-to-pin correspondence of the matrix rows and columns connections to the expansion ports is as follows:

Matrix Rows (0-7)	Main Port	Expansion Port
Row 0 Hi	P 203-D	P 200-R
Row 0 Lo	P 203-K	P 200-V
Row 1 Hi	P 203-E	P 200-P
Row 1 Lo	P 203-H	P 200-M
Row 2 Hi	P 203-N	P 200-S
Row 2 Lo	P 203-J	P 200-L
Row 3 Hi	P 203-L	P 200-J
Row 3 Lo	P 203-S	P 200-N
Row 4 Hi	P 203-M	P 200-H
Row 4 Lo	P 203-P	P 200-E
Row 5 Hi	P 203-V	P 200-K
Row 5 Lo	P 203-R	P 200-D
Row 6 Hi	P 203-T	P 200-B
Row 6 Lo	P 203-X	P 200-F
Row 7 Hi	P 203-U	P 200-A
Row 7 Lo	P 203-W	P 200-C

Matrix Columns (0 - 23)	Main Port	Expansion Port
Column 0 Hi	P 202-EE	P 201-C
Column 0 Lo	P 202-DD	P 201-D
Column 1 Hi	P 202-CC	P 201-E
Column 1 Lo	P 202-BB	P 201-F
Column 2 Hi	P 202-w	P 201-M
Column 2 Lo	P 202-v	P 201-N
Column 3 Hi	P 202-u	P 201-P
Column 3 Lo	P 202-t	P 201-R
Column 4 Hi	P 202-m	P 201-W
Column 4 Lo	P 202-k	P 201-X
Column 5 Hi	P 202-j	P 201-Y
Column 5 Lo	P 202-h	P 201-Z
Column 6 Hi	P 202-b	P 201-e
Column 6 Lo	P 202-a	P 201-f
Column 7 Hi	P 202-Z	P 201-h
Column 7 Lo	P 202-Y	P 201-j
Column 8 Hi	P 202-T	P 201-r
Column 8 Lo	P 202-S	P 201-s
Column 9 Hi	P 202-R	P 201-t
Column 9 Lo	P 202-P	P 201-u
Column l0 Hi	P 202-J	P 201-z
Column 10 Lo	P 202-H	P 201-AA
Column 11 Hi	P 202-F	P 201-BB
Column 11 Lo	P 202-E	P 201-CC
Column 12 Hi	P 202-B	P 201-FF
Column 12 Lo	P 202-A	P 201-HH

Matrix Columns (0-23)	Main Port	Expansion Port
Column 13Hi	P 202-D	P 201-DD
Column 13 Lo	P 202-C	P 201-EE
Column 14 Hi	P 202-L	P 201-x
Column 14 Lo	P 202-K	P 201-y
Column 15 Hi	P 202-N	P 201-v
Column 15 Lo	P 202-M	P 201-w
Column 16 Hi	P 202-V	P 201-n
Column 16 Lo	P 202-U	P 201-p
Column 17 Hi	P 202-X	P 201-k
Column 17 Lo	P 202-W	P 201-m
Column 18 Hi	P 202-d	P 201-c
Column 18 Lo	P 202-c	P 201-d
Column 19 Hi	P 202-f	P 201-a
Column 19 Lo	P 202-e	P 201-b
Column 20 Hi	P 202-p	P 201-U
Column 20 Lo	P 202-n	P 201-V
Column 21 Hi	P 202-s	P 201-S
Column 21 Lo	P 202-r	P 201-T
Column 22 Hi	P 202-y	P 201-K
Column 22 Lo	P 202-x	P 201-L
Column 23 Hi	P 202-AA	P 201-H
Column 23 Lo	P 202-z	P 201-J

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Chapter 4
DRAWINGS

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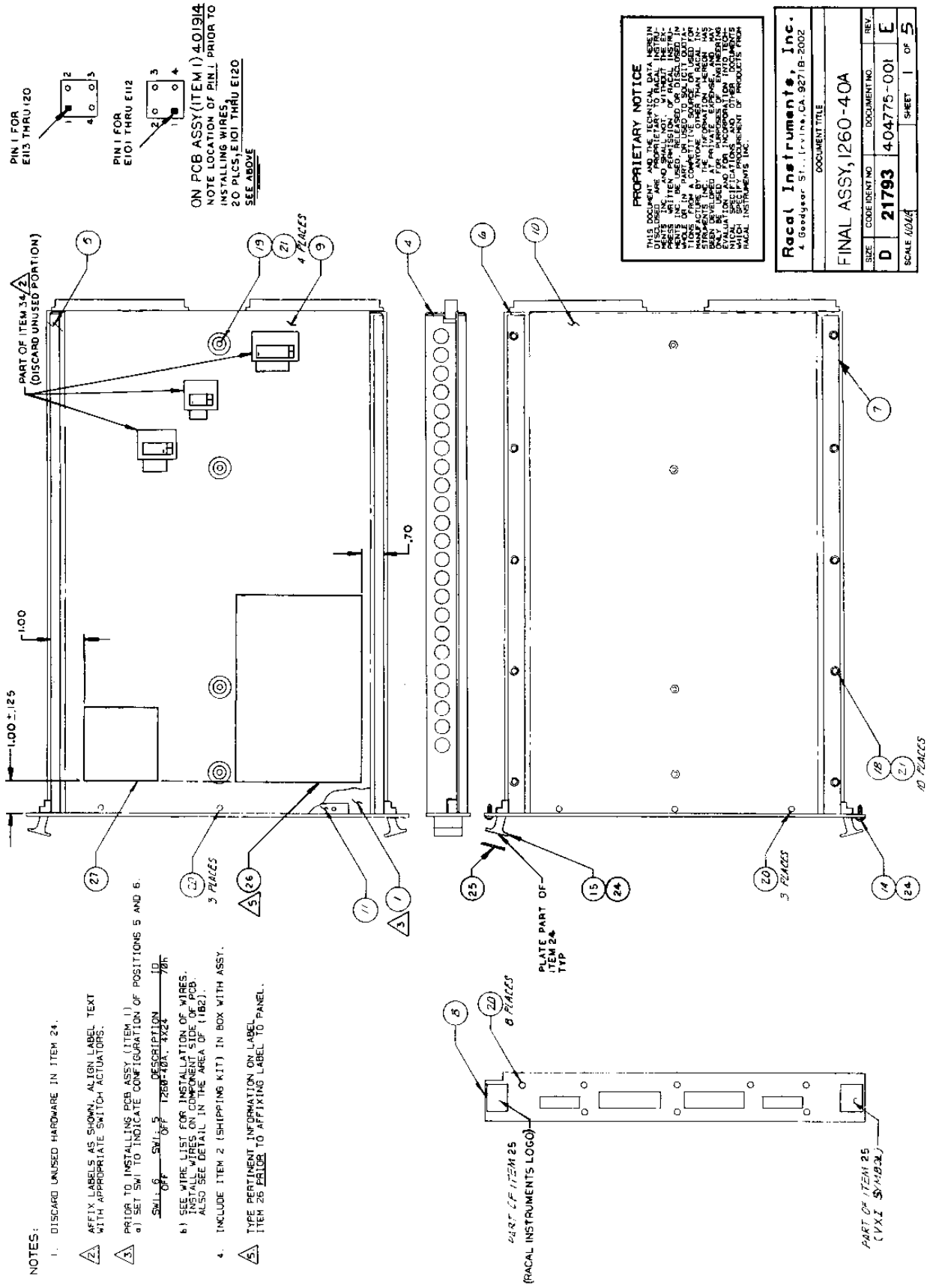
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Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002
DOCUMENT TITLE
FINAL ASSY, 1260-40A
SIZE D
CODE IDENT NO 21793
DOCUMENT NO 404775-001
REV E
SCALE NONE
SHEET 1 OF 5
PIN 1 FOR E113 THRU 120
PIN 1 FOR E101 THRU E112
ON PCB ASSY (ITEM 1) 40194 NOTE LOCATION OF PIN 1 PRIOR TO INSTALLING WIRES 20 PLCS, E101 THRU E120 SEE ABOVE
PART OF ITEM 34 (DISCARD UNUSED PORTION)
1.00
1.00 ±.125
.70
4 PLACES
3 PLACES
10 PLACES
PLATE PART OF ITEM 24 TYP
8 PLACES
PART OF ITEM 25 (RACAL INSTRUMENTS LOGO)
PART OF ITEM 25 (VXI SYMBOL)
NOTES:
1. DISCARD UNUSED HARDWARE IN ITEM 24.
2 AFFIX LABELS AS SHOWN, ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
3 PRIOR TO INSTALLING PCB ASSY (ITEM 1)
a) SET SW1 TO INDICATE CONFIGURATION OF POSITIONS 5 AND 6.
SW1-6 SW1-5 DESCRIPTION ID
OFF OFF 1260-40A 4X24 70h
b) SEE WIRE LIST FOR INSTALLATION OF WIRES. INSTALL WIRES ON COMPONENT SIDE OF PCB. ALSO SEE DETAIL IN THE AREA OF (1B2).
4. INCLUDE ITEM 2 (SHIPPING KIT) IN BOX WITH ASSY.
5 TYPE PERTINENT INFORMATION ON LABEL ITEM 26 PRIOR TO AFFIXING LABEL TO PANEL.

WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E117-1	E117-4	BARE COPPER, 22GA	500022	A/R	BUS
E117-2	E117-3	"	500022	A/R	"
E118-1	E118-4	"	500022	A/R	"
E118-2	E118-3	"	500022	A/R	"
E119-1	E119-4	"	500022	A/R	"
E119-2	E119-3	"	500022	A/R	"
E120-1	E120-4	"	500022	A/R	"
E120-2	E120-3	"	500022	A/R	"
E113-1	E121-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E113-2	E121-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E114-1	E122-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E114-2	E122-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E115-1	E123-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E115-2	E123-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E116-1	E124-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E116-2	E124-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E25-1	E21-1	TEF,STR,24GA,WHT	500132	A/R	TWISTED
E25-2	E21-2	TEF,STR,24GA,BLK	500132	A/R	PAIR
E26-1	E22-1	TEF,STR,24GA,WHT	500132	A/R	TWISTED
E26-2	E22-2	TEF,STR,24GA,BLK	500132	A/R	PAIR

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FINAL ASSY, 1260-40A	A	21793	404775-001	E
	DRN		SHEET 3 OF 6	

WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E27-1	E17-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E27-2	E17-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E28-1	E18-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E28-2	E18-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E29-1	E13-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E29-2	E13-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E30-1	E14-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E30-2	E14-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E31-1	E9-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E31-2	E9-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E32-1	E10-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E32-2	E10-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E33-1	E5-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E33-2	E5-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E34-1	E6-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E34-2	E6-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E35-1	E1-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E35-2	E1-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E36-1	E2-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E36-2	E2-2	TEF,STR,24GA, BLK	500132	A/R	PAIR

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

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E101-1	E3-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E101-2	E3-2	TEF,STR,24GA, BLK	500132	A/R	
E102-1	E4-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E102-2	E4-2	TEF,STR,24GA, BLK	500132	A/R	
E103-1	E7-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E103-2	E7-2	TEF,STR,24GA, BLK	500132	A/R	
E104-1	E8-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E104-2	E8-2	TEF,STR,24GA, BLK	500132	A/R	
E105-1	E11-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E105-2	E11-2	TEF,STR,24GA, BLK	500132	A/R	
E106-1	E12-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E106-2	E12-2	TEF,STR,24GA, BLK	500132	A/R	
E107-1	E15-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E107-2	E15-2	TEF,STR,24GA, BLK	500132	A/R	
E108-1	E16-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E108-2	E16-2	TEF,STR,24GA, BLK	500132	A/R	
E109-1	E19-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E109-2	E19-2	TEF,STR,24GA, BLK	500132	A/R	
E110-1	E20-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E110-2	E20-2	TEF,STR,24GA, BLK	500132	A/R	

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DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
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	DRN		SHEET 5 OF 6	

WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E111-1	E23-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E111-2	E23-2	TEF,STR,24GA, BLK	500132	A/R	
E112-1	E24-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E112-2	E24-2	TEF,STR,24GA, BLK	500132	A/R	

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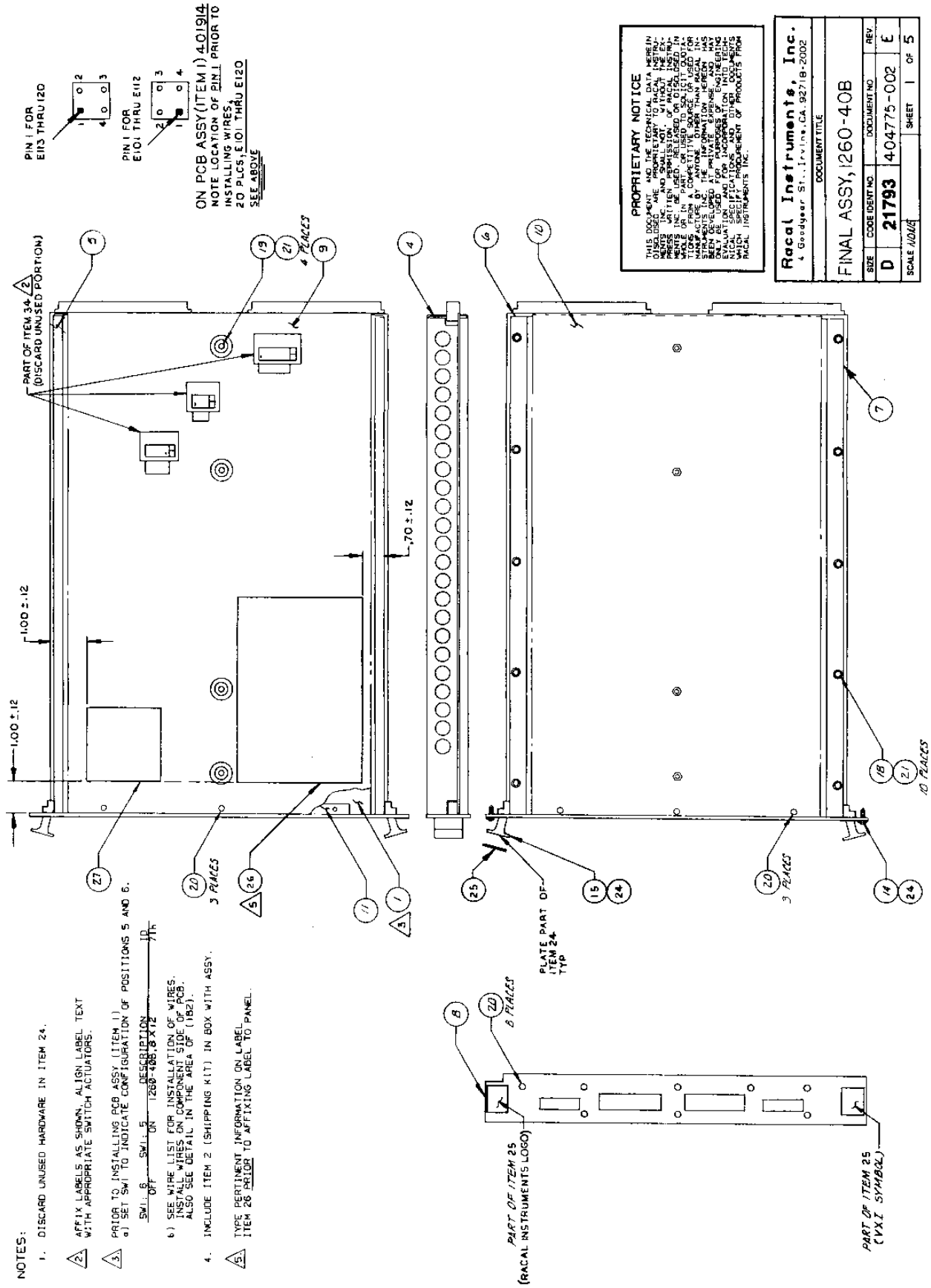
DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40A	A	21793	404775-001	E
	DRN		SHEET 6 OF 6	



WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E113-1	E113-4	BARE COPPER 22GA	500022	A/R	BUS
E113-2	E113-3				
E114-1	E114-4				
E114-2	E114-3				
E115-1	E115-4				
E115-2	E115-3				
E116-1	E116-4				
E116-2	E116-3				
E117-1	E117-4				
E117-2	E117-3				
E118-1	E118-4				
E118-2	E118-3				
E119-1	E119-4				
E119-2	E119-3				
E120-1	E120-4				
E120-2	E120-3				
E101-1	E101-4				
E101-2	E101-3				
E102-1	E102-4				
E102-2	E102-3				

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DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40B	A	21793	404775-002	E
	DRN		SHEET 3 OF 6	

WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E103-1	E103-4	BARE COPPER, 22GA	500022	A/R	BUS
E103-2	E103-3				
E104-1	E104-4				
E104-2	E104-3				
E105-1	E105-4				
E105-2	E105-3				
E106-1	E106-4				
E106-2	E106-3				
E107-1	E107-4				
E107-2	E107-3				
E108-1	E108-4				
E108-2	E108-3				
E109-1	E109-4				
E109-2	E109-3				
E110-1	E110-4				
E110-2	E110-3				
E111-1	E111-4				
E111-2	E111-3				
E112-1	E112-4				
E112-2	E112-3				

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DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40B	A	21793	404775-002	E
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WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E25-1	E21-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E25-2	E21-2	TEF,STR,24GA, BLK	500132	A/R	
E26-1	E22-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E26-2	E22-2	TEF,STR,24GA, BLK	500132	A/R	
E27-1	E17-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E27-2	E17-2	TEF,STR,24GA, BLK	500132	A/R	
E28-1	E18-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E28-2	E18-2	TEF,STR,24GA, BLK	500132	A/R	
E29-1	E13-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E29-2	E13-2	TEF,STR,24GA, BLK	500132	A/R	
E30-1	E14-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E30-2	E14-2	TEF,STR,24GA, BLK	500132	A/R	
E31-1	E9-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E31-2	E9-2	TEF,STR,24GA, BLK	500132	A/R	
E32-1	E10-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E32-2	E10-2	TEF,STR,24GA, BLK	500132	A/R	
E33-1	E5-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E33-2	E5-2	TEF,STR,24GA, BLK	500132	A/R	
E34-1	E6-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E34-2	E6-2	TEF,STR, 24GA, BLK	500132	A/R	

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

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E35-1	E1-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E35-2	E1-2	TEF,STR,24GA, BLK	500132	A/R	
E36-1	E2-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E36-2	E2-2	TEF,STR,24GA, BLK	500132	A/R	

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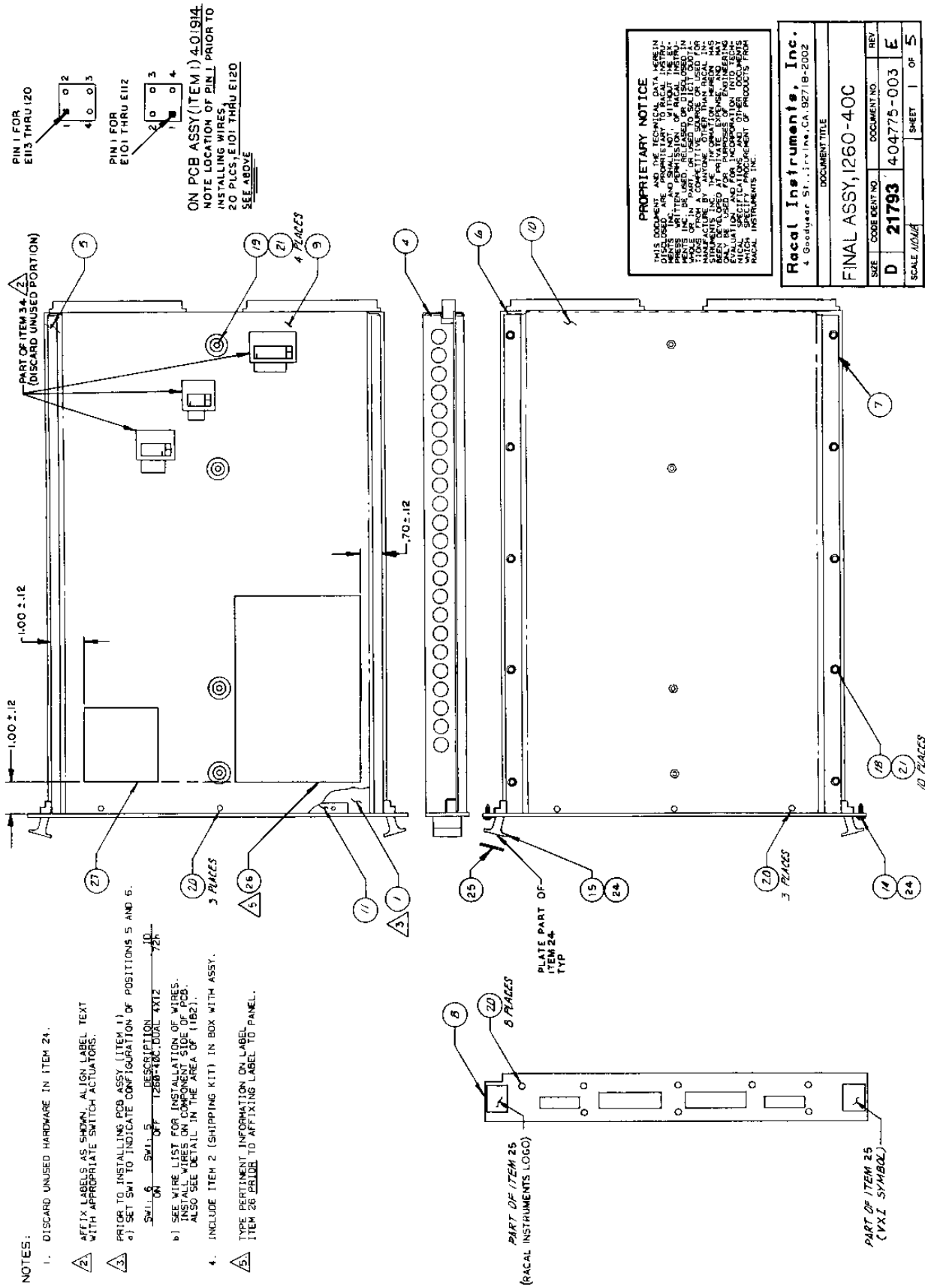
DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40B	A	21793	404775-002	E
	DRN		SHEET 6 OF 6	



NOTES:

1. DISCARD UNUSED HARDWARE IN ITEM 24.
2. AFFIX LABELS AS SHOWN. ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
3. PRIOR TO INSTALLING PCB ASSY (ITEM 1)
   a) SET SW1 TO INDICATE CONFIGURATION OF POSITIONS 5 AND 6.

SW1: 6	SW1: 5	DESCRIPTION	ID
ON	OFF	1260-40A DUAL 4X12	72h

   b) SEE WIRE LIST FOR INSTALLATION OF WIRES. INSTALL WIRES ON COMPONENT SIDE OF PCB. ALSO SEE DETAIL IN THE AREA OF (182).
4. INCLUDE ITEM 2 (SHIPPING KIT) IN BOX WITH ASSY.
5. TYPE PERTINENT INFORMATION ON LABEL ITEM 26 PRIOR TO AFFIXING LABEL TO PANEL.

WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E113-1	E113-4	BARE COPPER, 22GA	500022	A/R	BUS
E113-2	E113-3	"	500022	A/R	"
E114-1	E114-4	"	500022	A/R	"
E114-2	E114-3	"	500022	A/R	"
E115-1	E115-4	"	500022	A/R	"
E115-2	E115-3	"	500022	A/R	"
E116-1	E116-4	"	500022	A/R	"
E116-2	E116-3	"	500022	A/R	"
E117-1	E117-4	"	500022	A/R	"
E117-2	E117-3	"	500022	A/R	"
E118-1	E118-4	"	500022	A/R	"
E118-2	E118-3	"	500022	A/R	"
E119-1	E119-4	"	500022	A/R	"
E119-2	E119-3	"	500022	A/R	"
E120-1	E120-4	"	500022	A/R	"
E120-2	E120-3	"	500022	A/R	"
E25-1	E21-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E25-2	E21-2	TEF,STR,24GA, BLK	500132	A/R	PAIR

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DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40C	A	21793	404775-003	E
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WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E26-1	E22-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E26-2	E22-2	TEF,STR,24GA, BLK	500132	A/R	
E27-1	E17-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E27-2	E17-2	TEF,STR,24GA, BLK	500132	A/R	
E28-1	E18-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E28-2	E18-2	TEF,STR,24GA, BLK	500132	A/R	
E29-1	E13-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E29-2	E13-2	TEF,STR,24GA, BLK	500132	A/R	
E30-1	E14-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E30-2	E14-2	TEF,STR,24GA, BLK	500132	A/R	
E31-1	E9-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E31-2	E9-2	TEF,STR,24GA, BLK	500132	A/R	
E32-1	E10-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E32-2	E10-2	TEF,STR,24GA, BLK	500132	A/R	
E33-1	E5-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E33-2	E5-2	TEF,STR,24GA, BLK	500132	A/R	
E34-1	E6-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E34-2	E6-2	TEF,STR,24GA, BLK	500132	A/R	
E35-1	E1-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E35-2	E1-2	TEF,STR,24GA, BLK	500132	A/R	

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DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40C	A	21793	404775-003	E
	DRN		SHEET 4 OF 6	

WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E36-1	E2-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E36-2	E2-2	TEF,STR,24GA, BLK	500132	A/R	
E101-1	E3-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E101-2	E3-2	TEF,STR,24GA, BLK	500132	A/R	
E102-1	E4-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E102-2	E4-2	TEF,STR,24GA, BLK	500132	A/R	
E103-1	E7-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E103-2	E7-2	TEF,STR,24GA, BLK	500132	A/R	
E104-1	E8-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E104-2	E8-2	TEF,STR,24GA, BLK	500132	A/R	
E105-1	E11-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E105-2	E11-2	TEF,STR,24GA, BLK	500132	A/R	
E106-1	E12-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E106-2	E12-2	TEF,STR,24GA, BLK	500132	A/R	
E107-1	E15-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E107-2	E15-2	TEF,STR,24GA, BLK	500132	A/R	
E108-1	E16-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E108-2	E16-2	TEF,STR,24GA, BLK	500132	A/R	
E109-1	E19-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED PAIR
E109-2	E19-2	TEF,STR,24GA, BLK	500132	A/R	

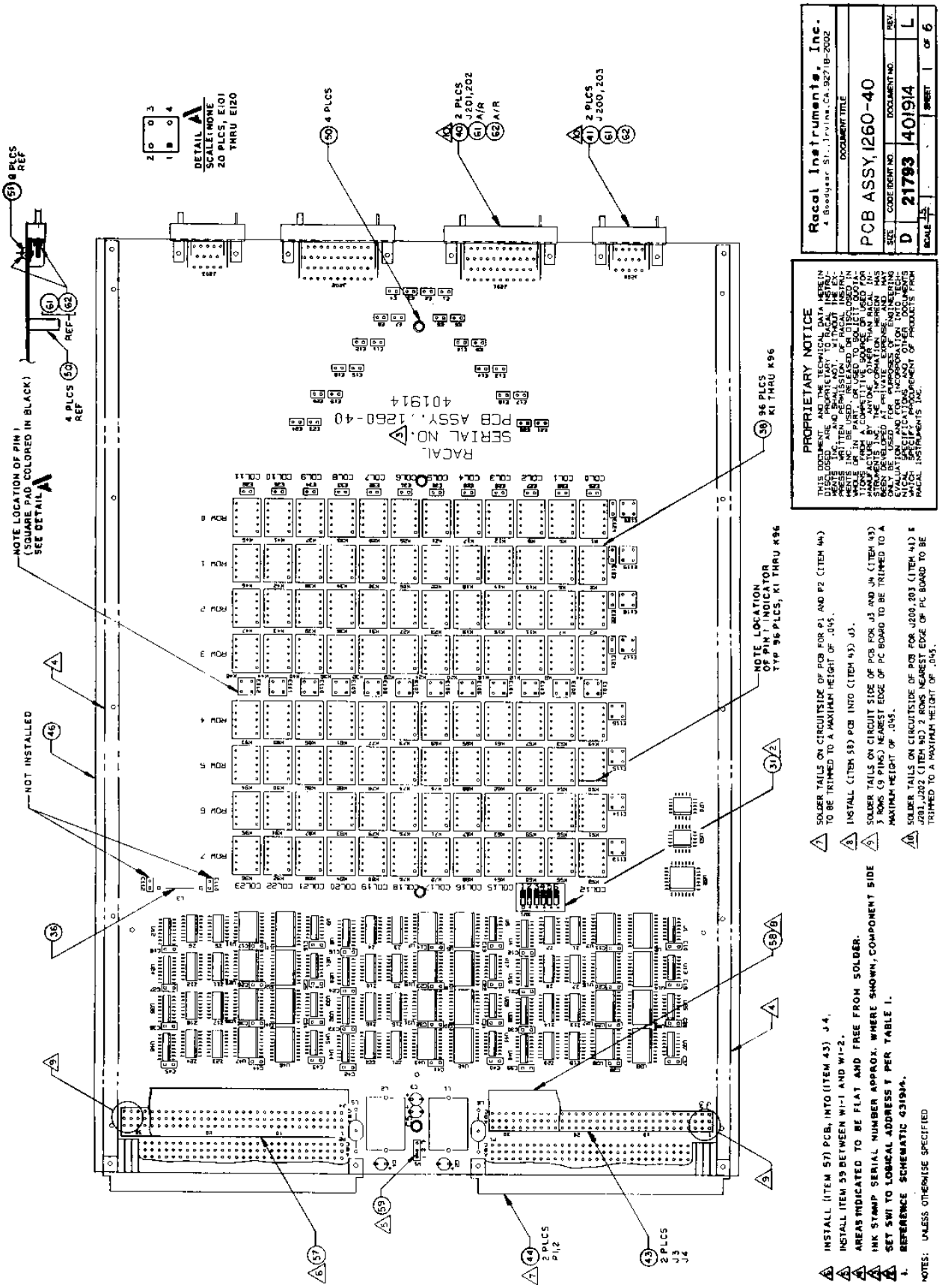
RACAL-DANA Instruments Inc.	4 GOODYEAR, IRVINE, CALIFORNIA 92714			
DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40C	A	21793	404775-003	E
	DRN		SHEET 5 OF 6	

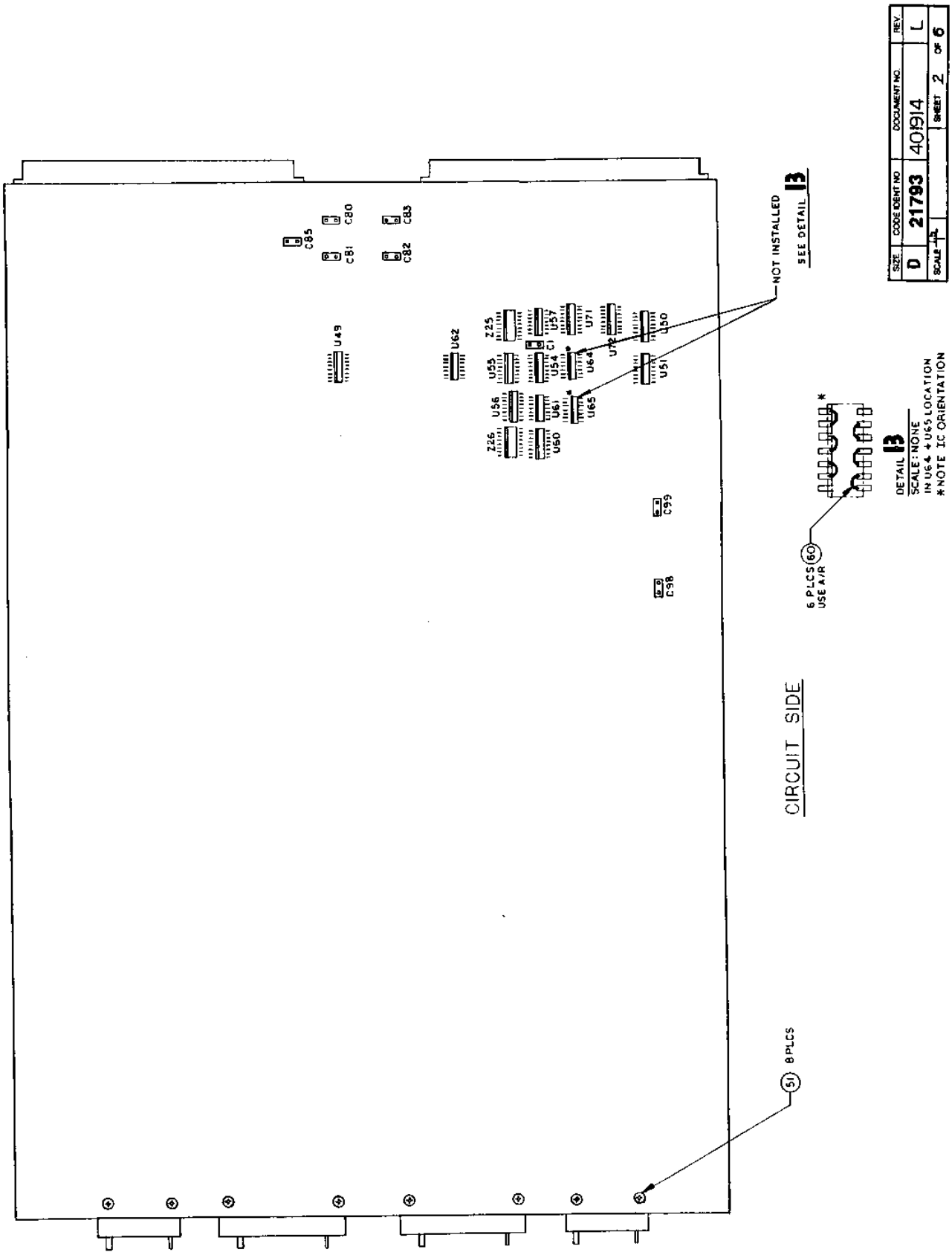
WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NUMBER	WIRE LENGTH	REFERENCE
E110-1	E20-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E110-2	E20-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E111-1	E23-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E111-2	E23-2	TEF,STR,24GA, BLK	500132	A/R	PAIR
E112-1	E24-1	TEF,STR,24GA, WHT	500132	A/R	TWISTED
E112-2	E24-2	TEF,STR,24GA, BLK	500132	A/R	PAIR

RACAL-DANA Instruments Inc. 4 GOODYEAR, IRVINE, CALIFORNIA 92714

DOCUMENT TITLE	SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
FINAL ASSY, 1260-40C	A	21793	404775-003	E
	DRN		SHEET 6 OF 6	

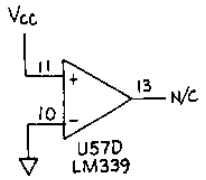



SIZE
CODE IDENT NO
DOCUMENT NO
REV.
D
21793
40914
L
SCALE 1/2
SHEET 2 OF 6
NOT INSTALLED
SEE DETAIL 13
C85
C81
C80
C82
C83
U49
U62
Z25
U55
U56
Z26
U54
U57
U61
U60
U64
U71
U72
U50
U51
U65
C99
C98
DETAIL 13
SCALE: NONE
IN U64 + U65 LOCATION
*NOTE IC ORIENTATION
6 PLCS (60)
USE A/R
CIRCUIT SIDE
(51) 8PLCS

REF. DES.	IC TYPE	+5V PIN NO.	GND PIN NO.
U71, 72	74HCT253	16	8
U70	231152 (16L8D)	20	10
U57	LM339	3	12
U56	74HCT85	16	8
U54, 55	74LS138	16	8
U53	231153 (16R4)	20	10
U52	231154 (22V10H)	28	14
U51	26LS31	16	8
U49, 50	26LS32	16	8
U4, 8, 12, 16, 20, 24, U28, 32, 36, 40, 44, 48, 60	74HCT166	16	8
U3, 7, 11, 15, 19, 23, U27, 31, 35, 39, 43, 47	2803	NC	9
U2, 6, 10, 14, 18, 22, U26, 30, 34, 38, 42, 46	74HCT273	20	10
U1, 5, 9, 13, 17, 21, 25, U29, 33, 37, 41, 45, 51, 52	74HCT164	14	7

IC POWER AND GROUND CONNECTIONS

HIGHEST REF. DES.
Z26
W1
U72
SW1
J203
L6
K96
E136
C112



RACAL P/N	TITLE
431914	SCHEM., 1260-40A
431914	SCHEM., 1260-40B
431914	SCHEM., 1260-40C

5. FOR 1260-40A AND 1260-40C JUMPERS ARE NOT INSTALLED IN E101 THRU E112.

4. C110 AND C112 ARE NOT INSTALLED.

3. RELAYS K1 THRU K96 ARE RACAL P/N 310197. ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.

2. RESISTOR NETWORKS ARE IN OHMS.

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

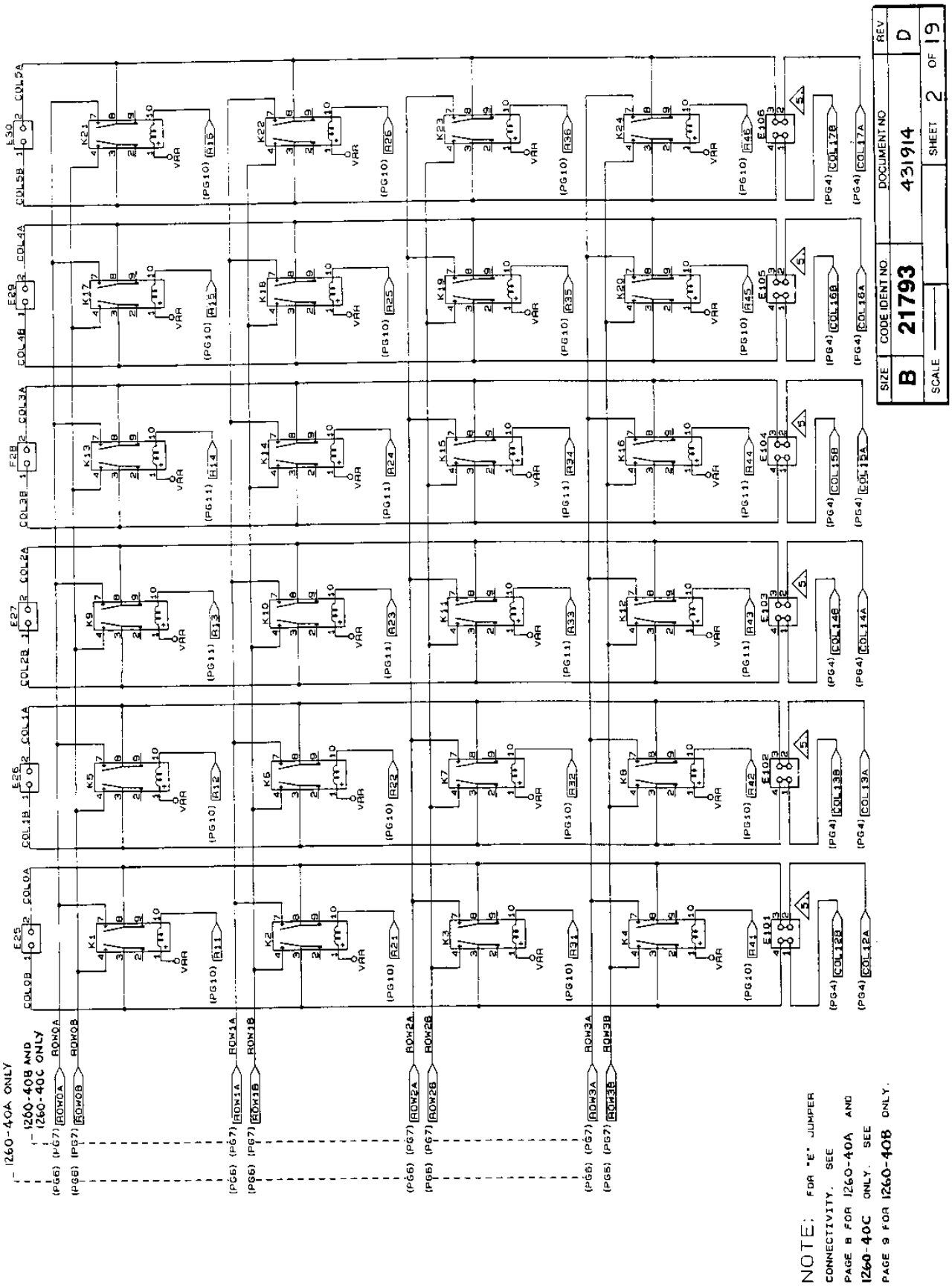
NOTES: UNLESS OTHERWISE SPECIFIED

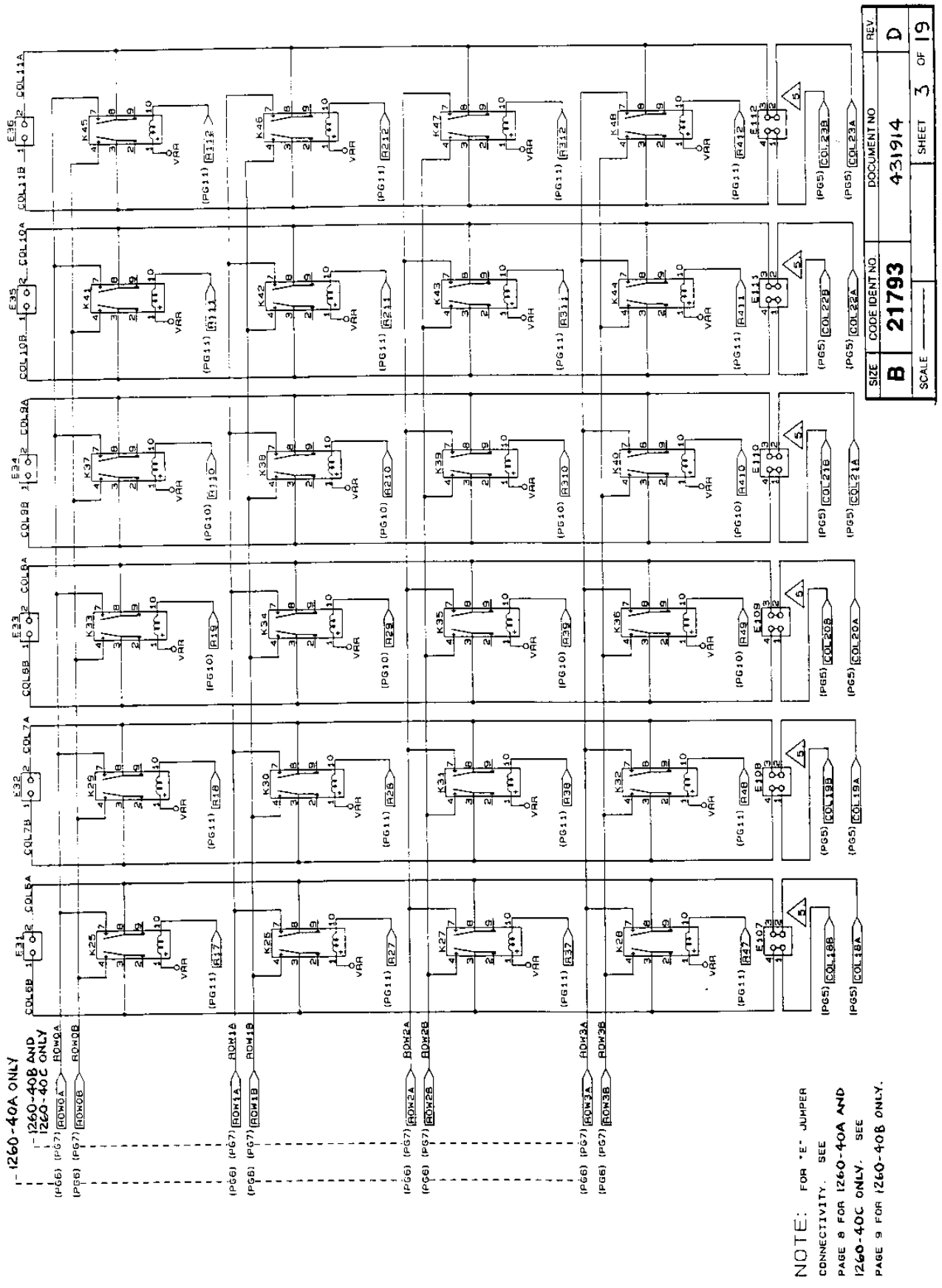
Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

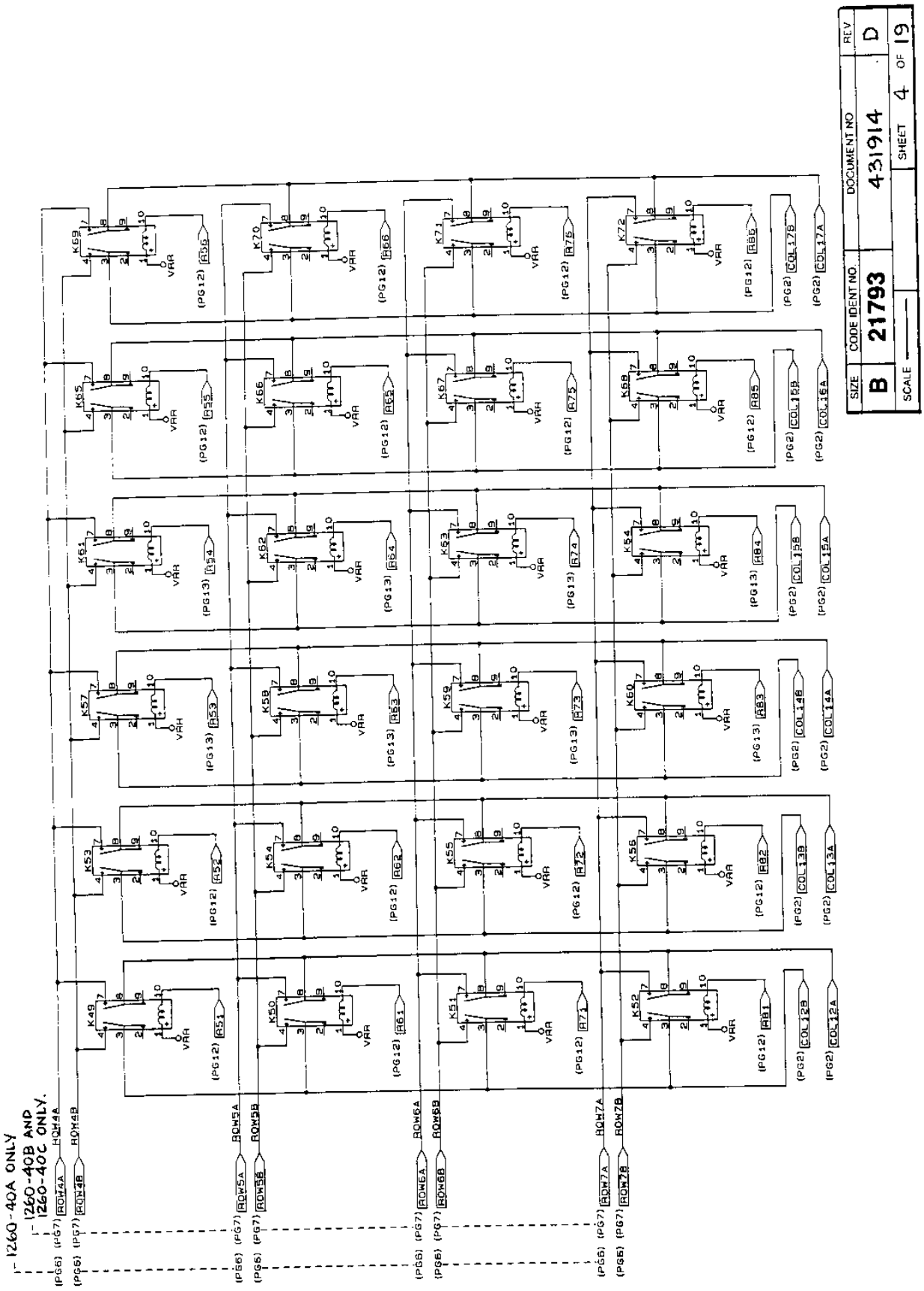
DOCUMENT TITLE: SCHEM., 1260-40

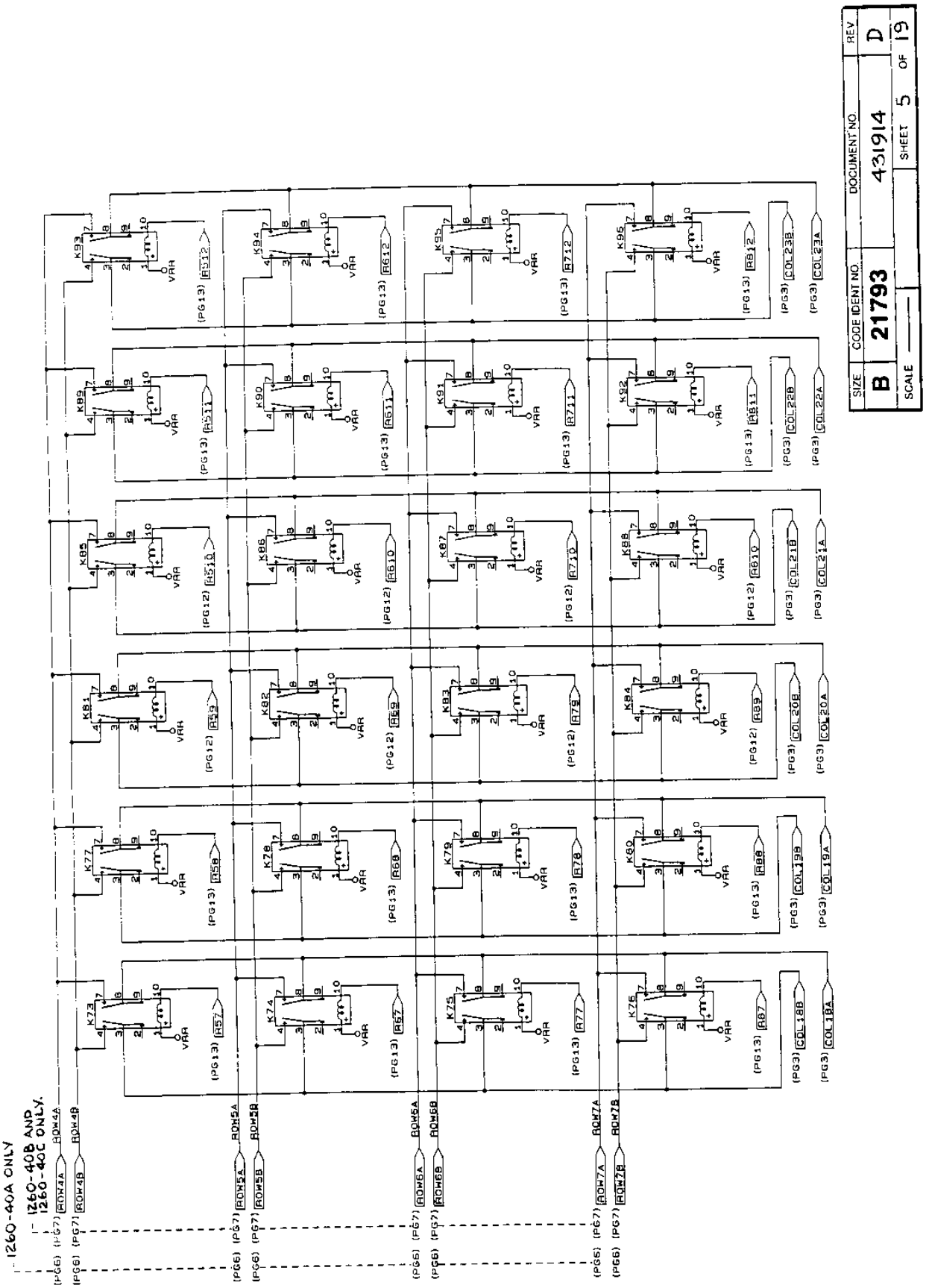
SIZE	CODE IDENT NO	DOCUMENT NO.	REV.
B	21793	431914	D

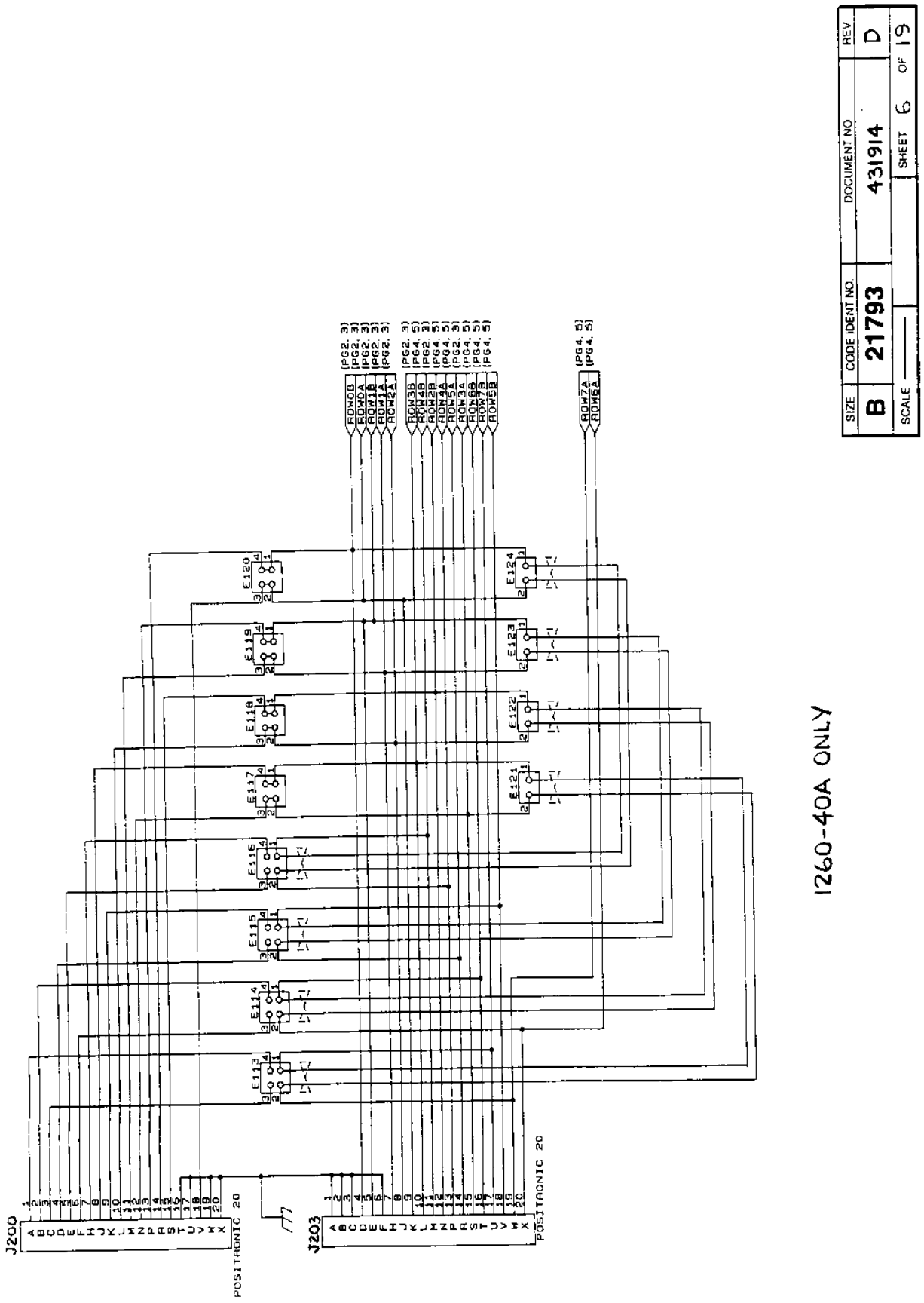
SCALE — | SHEET 1 OF 19

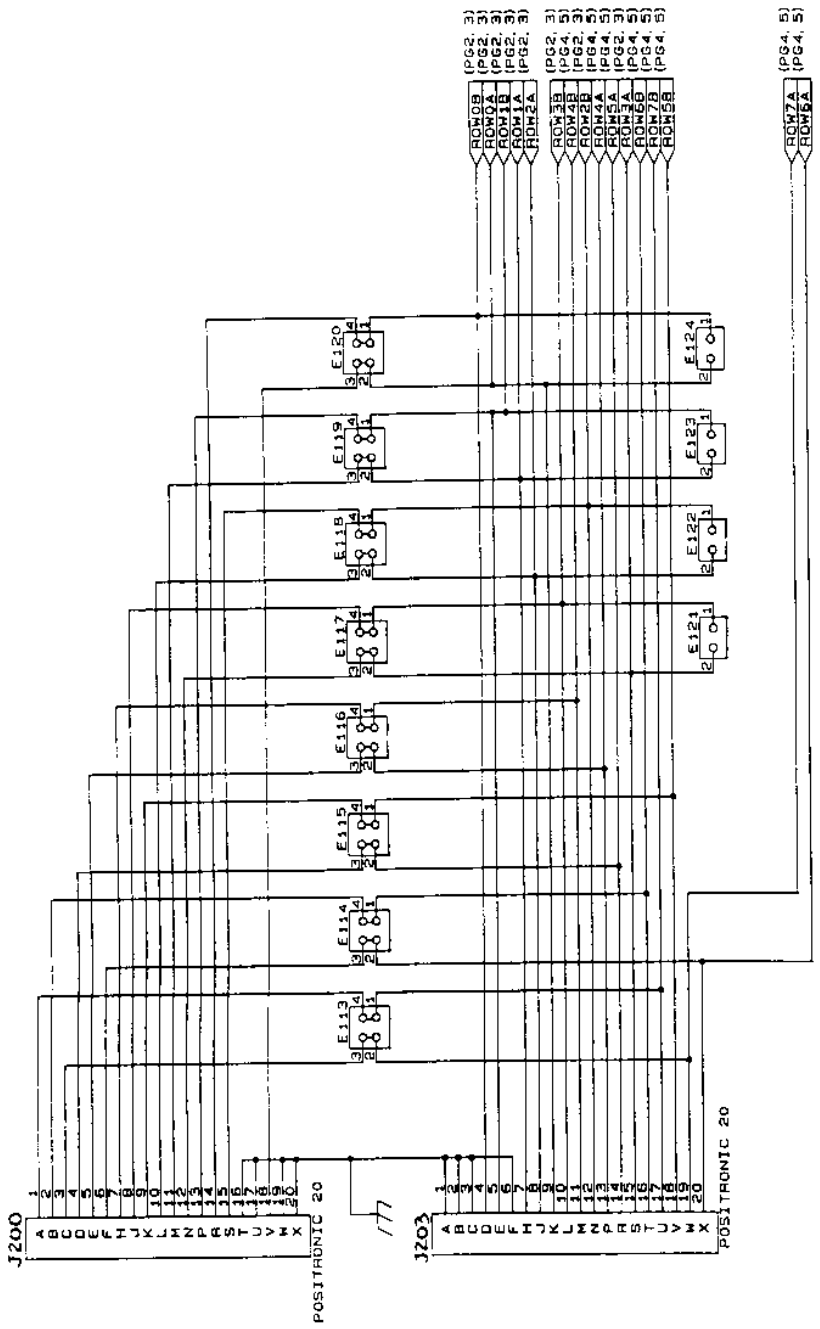

1260-40A ONLY
1260-40B AND 1260-40C ONLY
ROW0A
ROW0B
ROW1A
ROW1B
ROW2A
ROW2B
ROW3A
ROW3B
COL0B
COL0A
COL1B
COL1A
COL2B
COL2A
COL3B
COL3A
COL4B
COL4A
COL5B
COL5A
NOTE: FOR "E" JUMPER CONNECTIVITY, SEE PAGE 8 FOR 1260-40A AND 1260-40C ONLY. SEE PAGE 9 FOR 1260-40B ONLY.
SIZE B
CODE IDENT NO 21793
DOCUMENT NO 431914
REV D
SCALE
SHEET 2 OF 19




1260-40A ONLY
1260-40B AND
1260-40C ONLY.
SIZE
B
CODE IDENT NO
21793
DOCUMENT NO
431914
REV
D
SCALE
SHEET 4 OF 19



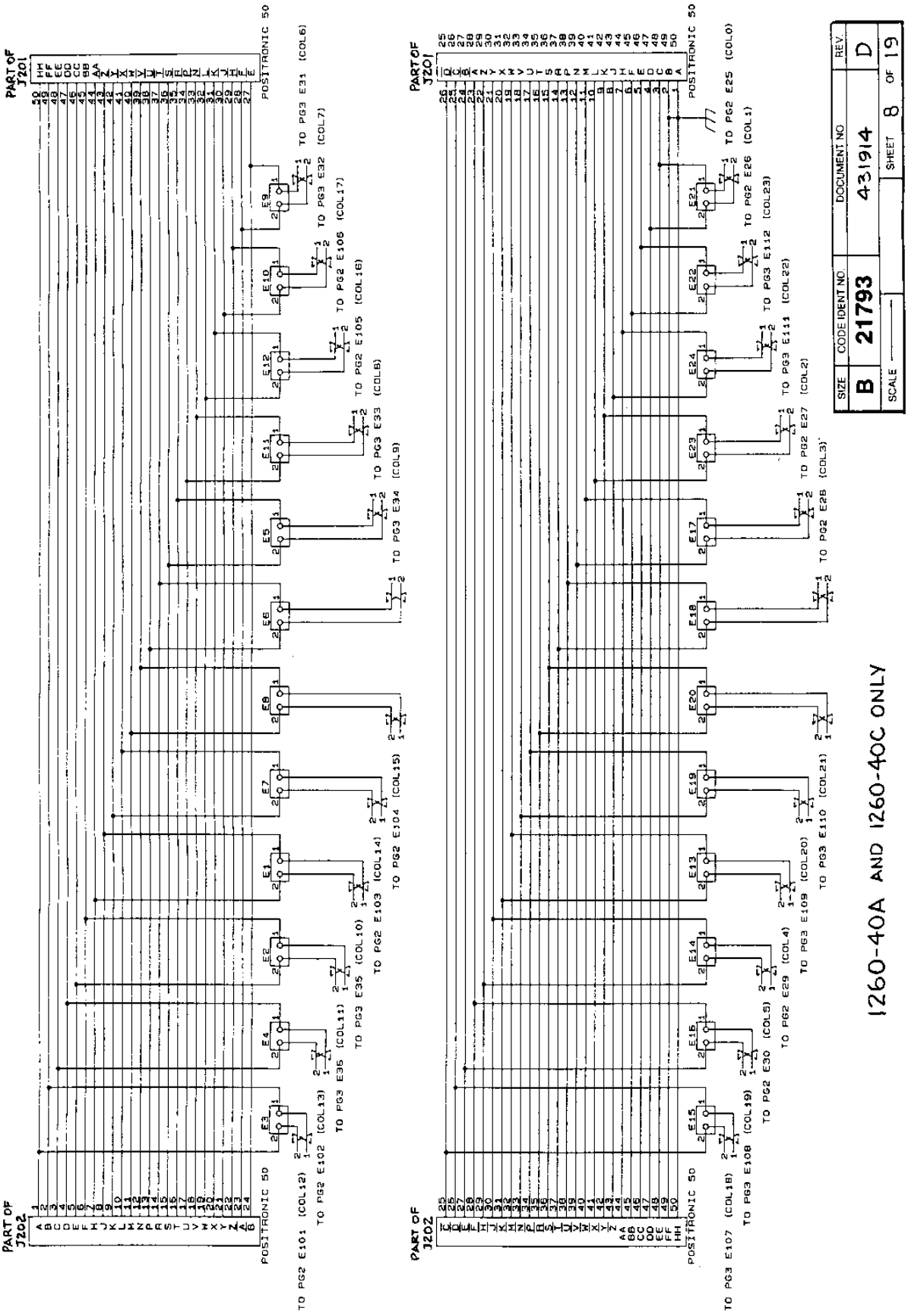

SIZE
CODE IDENT NO
DOCUMENT NO
REV
B
21793
431914
D
SCALE
SHEET 6 OF 19
1260-40A ONLY
J200
POSITRONIC 20
J203
POSITRONIC 20
ROW0B (PG2, 3)
ROW0A (PG2, 3)
ROW1B (PG2, 3)
ROW1A (PG2, 3)
ROW2A (PG2, 3)
ROW3B (PG2, 3)
ROW4B (PG4, 5)
ROW2B (PG2, 3)
ROW4A (PG4, 5)
ROW5A (PG2, 3)
ROW3A (PG4, 5)
ROW6B (PG4, 5)
ROW7B (PG4, 5)
ROW5B (PG4, 5)
ROW7A (PG4, 5)
ROW6A (PG4, 5)
E113
E114
E115
E116
E117
E118
E119
E120
E121
E122
E123
E124

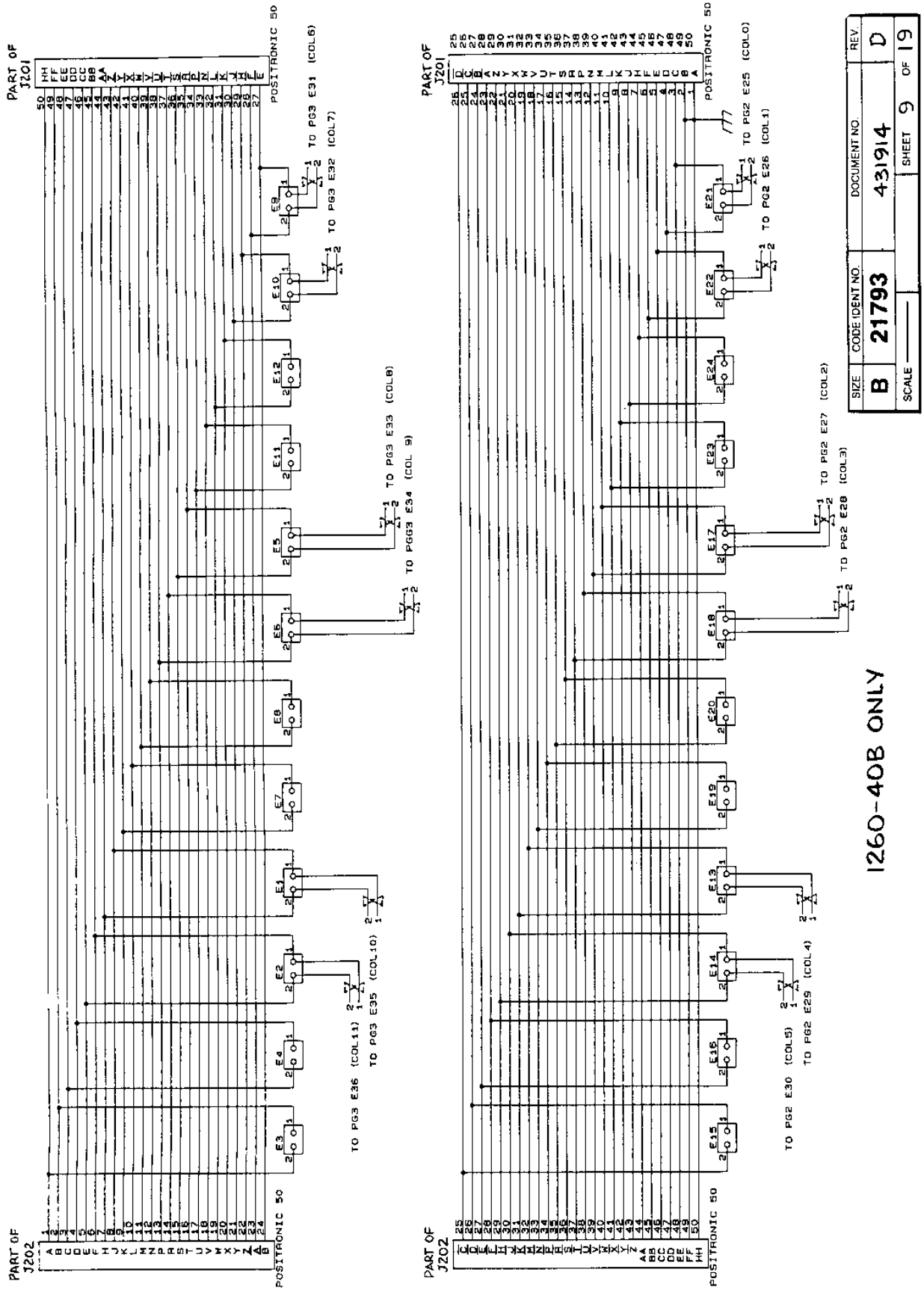


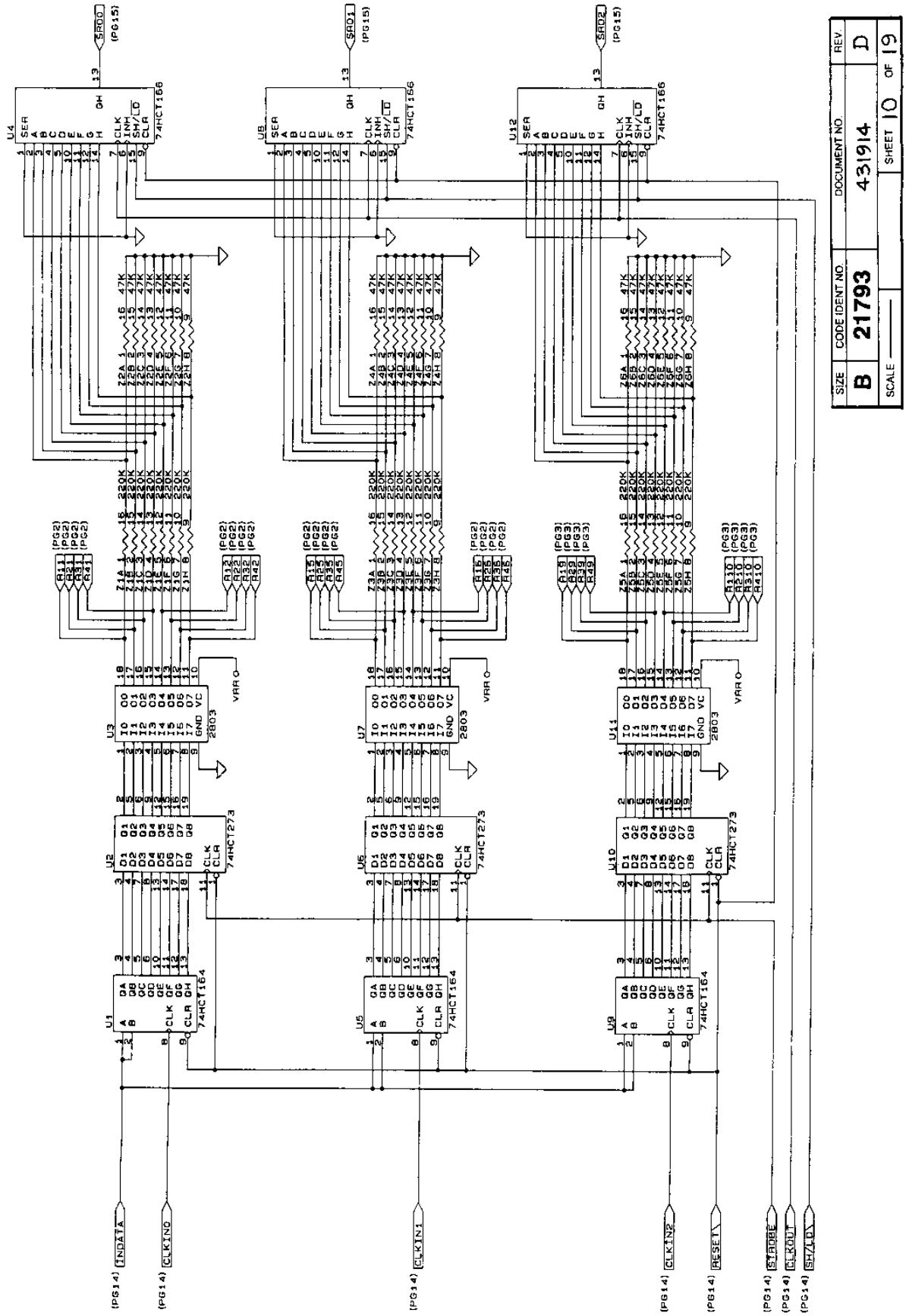
1260-40B AND 1260-40C ONLY

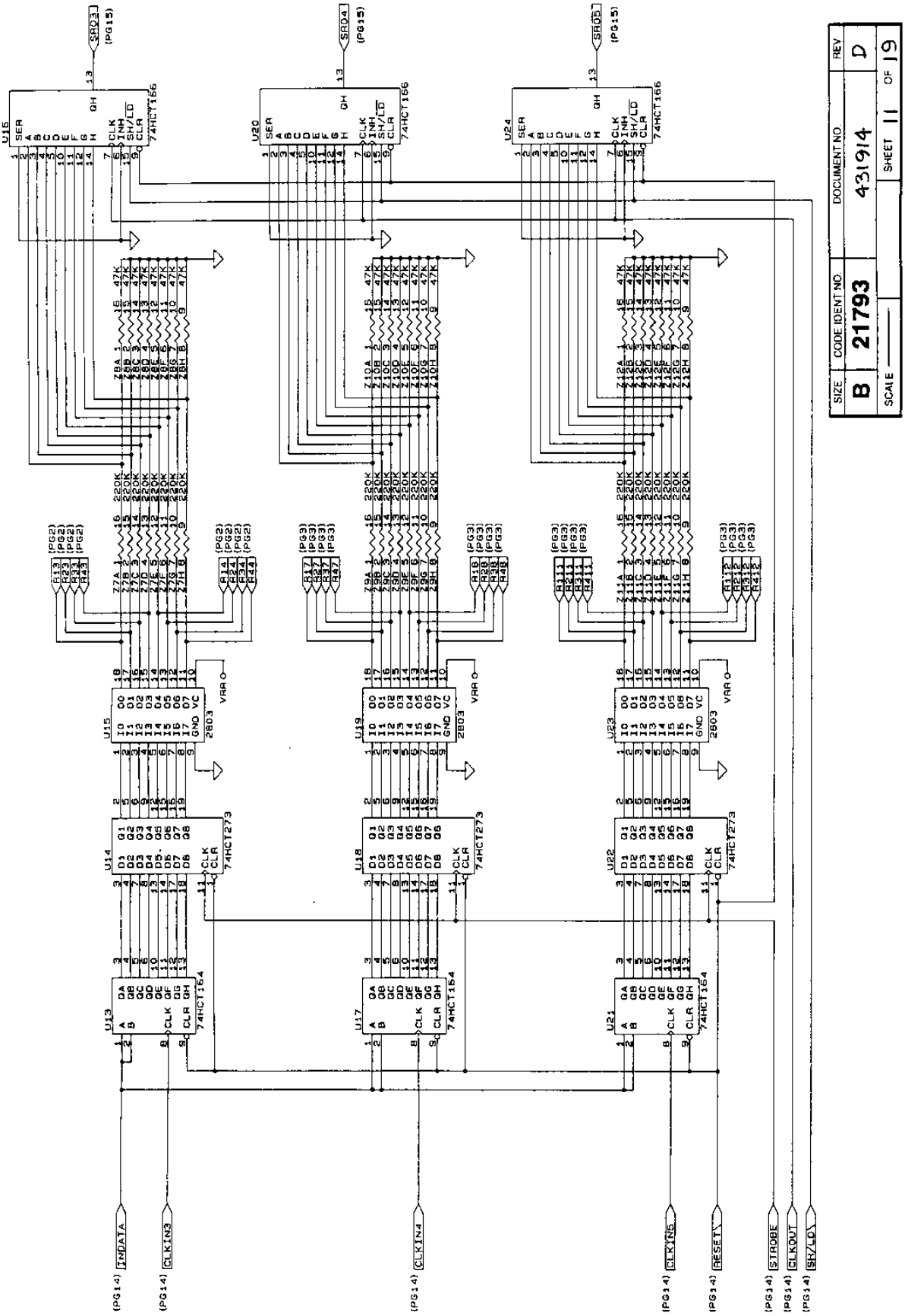
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	431914	D

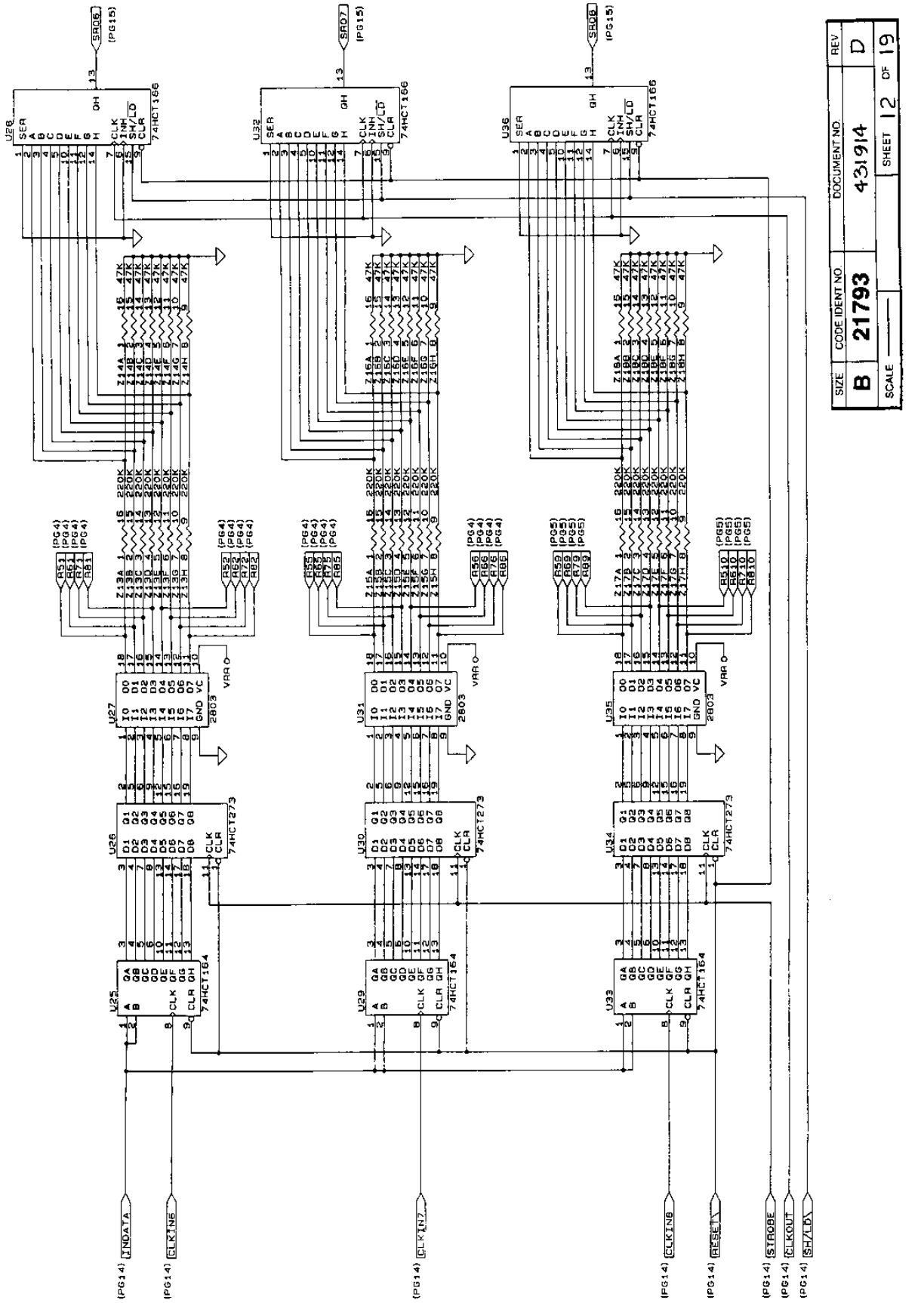
SCALE —— SHEET 7 OF 19

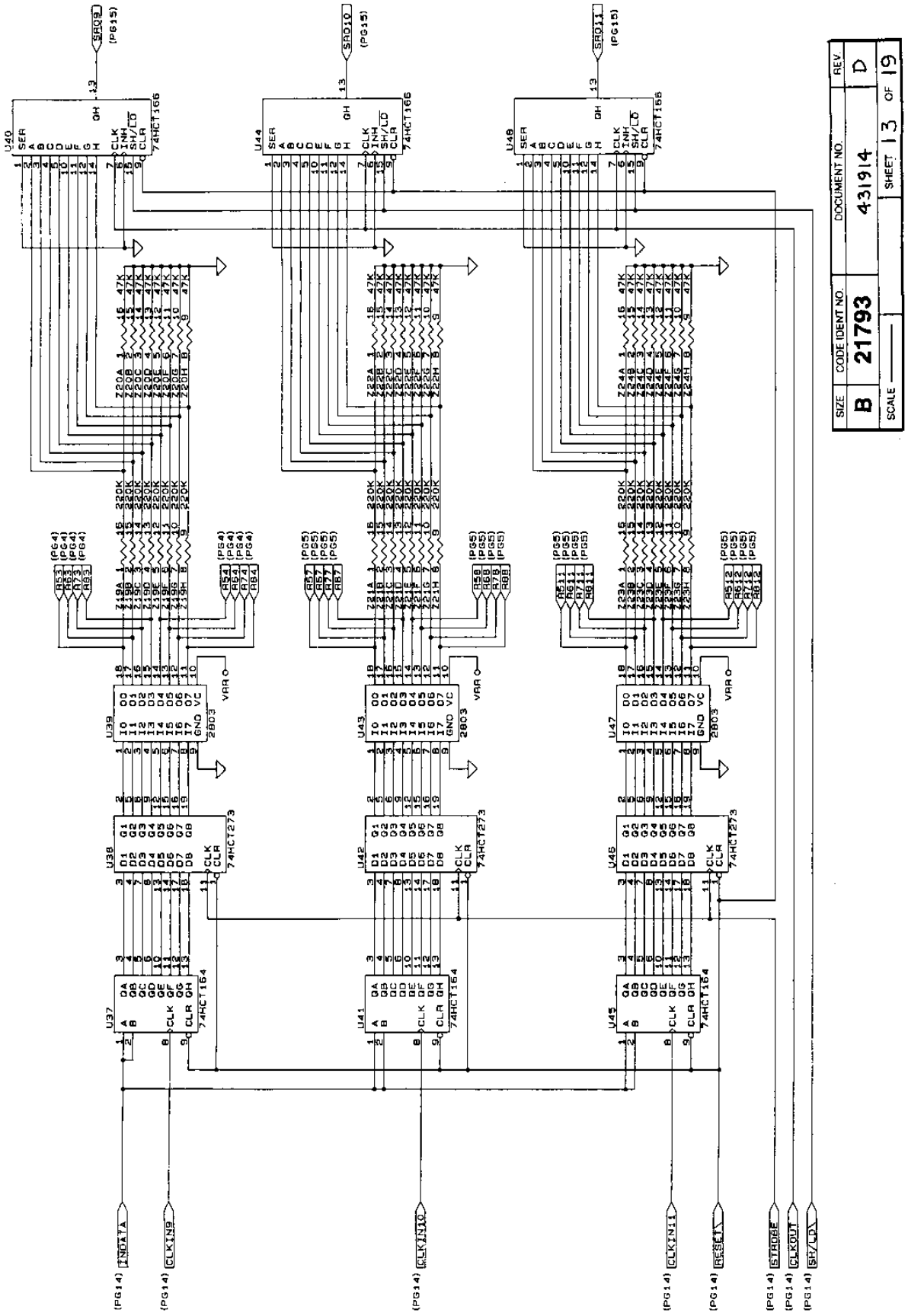

PART OF J202
PART OF J201
POSITRONIC 50
TO PG2 E101 (COL12)
TO PG2 E102 (COL13)
TO PG3 E35 (COL11)
TO PG2 E103 (COL14)
TO PG2 E104 (COL15)
TO PG3 E34 (COL9)
TO PG3 E33 (COL8)
TO PG2 E105 (COL16)
TO PG3 E32 (COL17)
TO PG3 E31 (COL6)
TO PG3 E107 (COL18)
TO PG3 E108 (COL19)
TO PG2 E30 (COL5)
TO PG2 E29 (COL4)
TO PG3 E109 (COL20)
TO PG3 E110 (COL21)
TO PG2 E28 (COL3)
TO PG2 E27 (COL2)
TO PG3 E111 (COL22)
TO PG3 E112 (COL23)
TO PG2 E26 (COL1)
TO PG2 E25 (COL0)
SIZE B
CODE IDENT NO 21793
DOCUMENT NO 431914
REV. D
SCALE
SHEET 8 OF 19
1260-40A AND 1260-40C ONLY

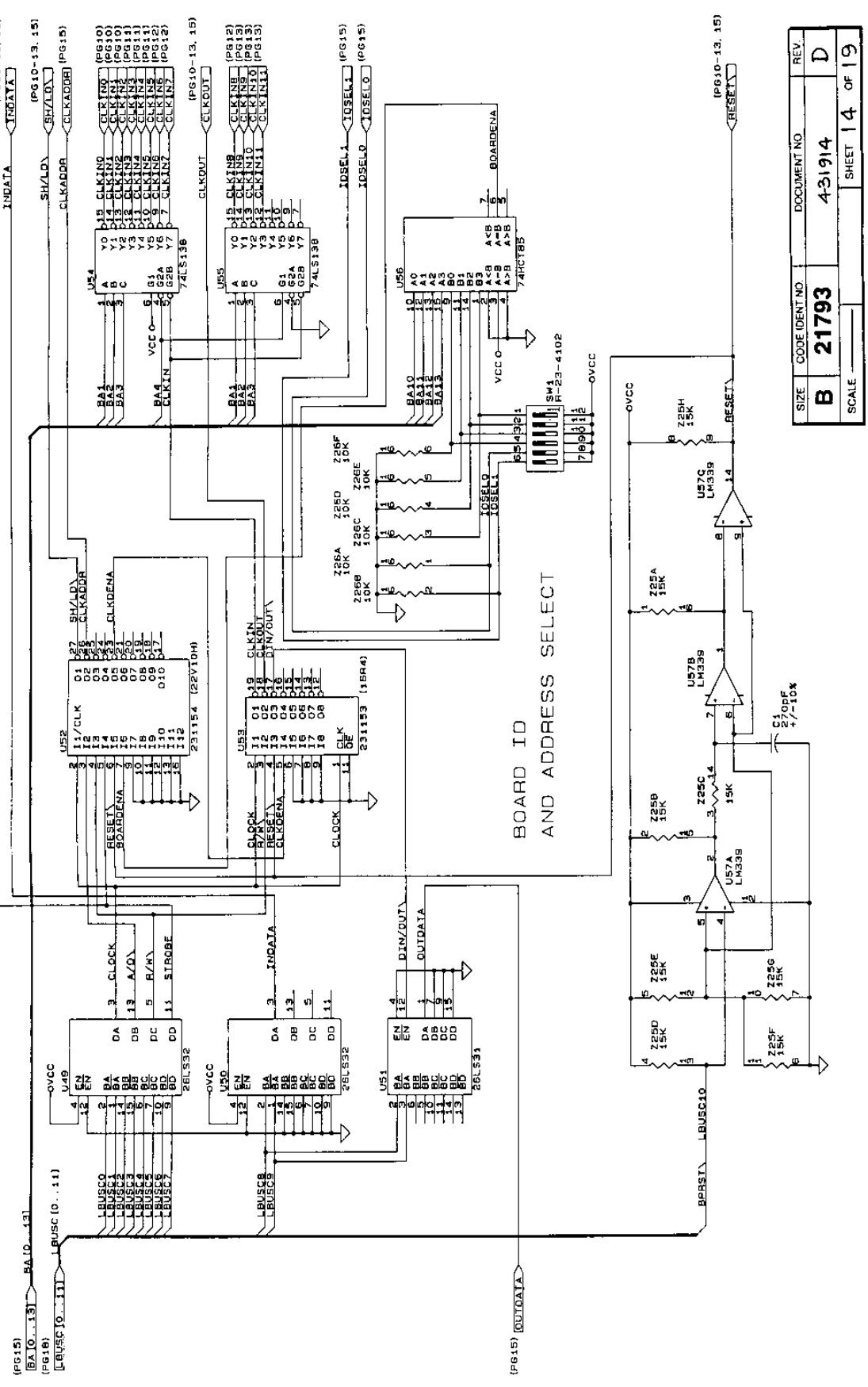


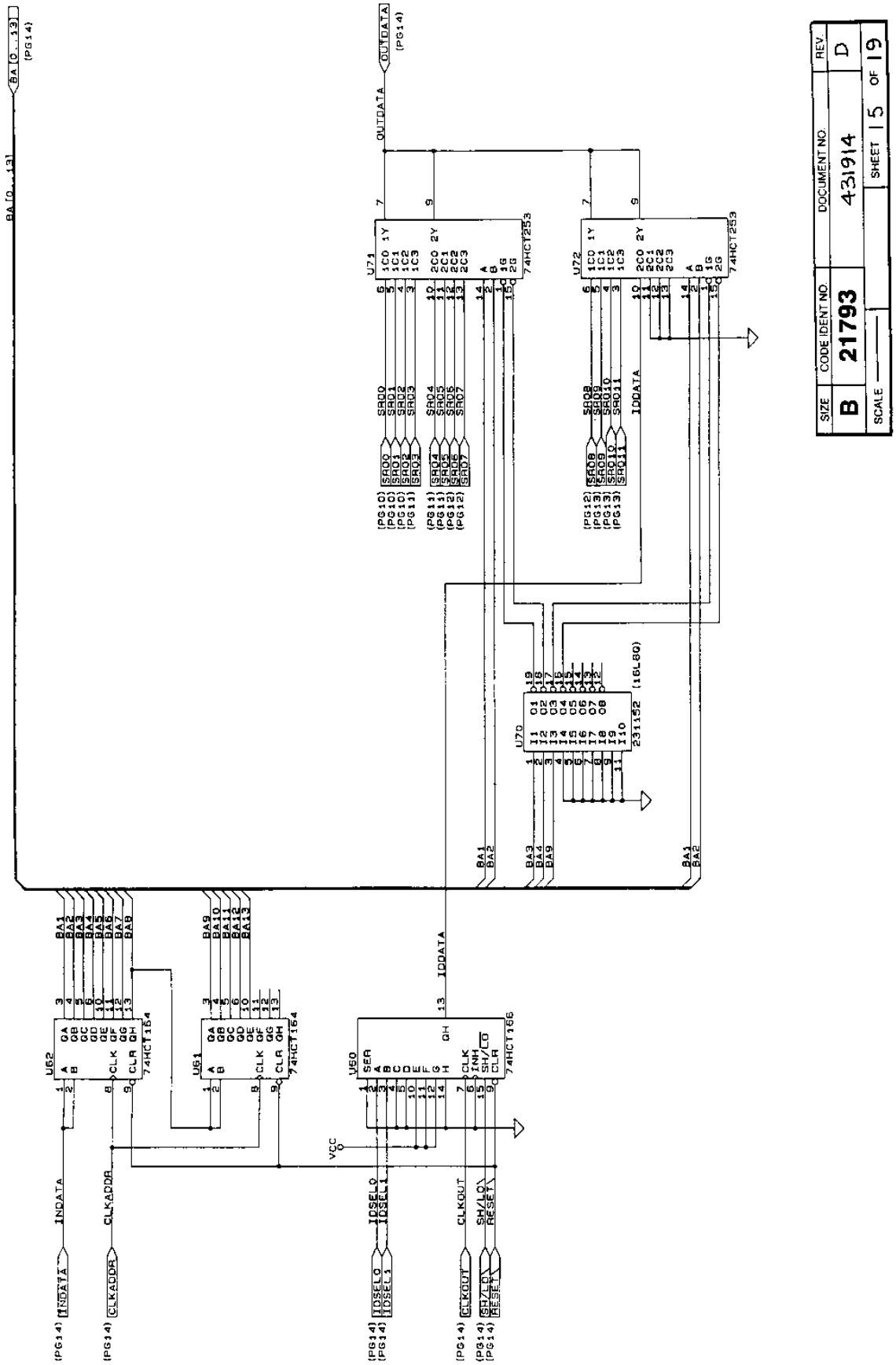

SIZE
B
CODE IDENT NO
21793
DOCUMENT NO.
431914
REV.
D
SCALE
SHEET 10 OF 19
74HCT166
74HCT164
74HCT273
2803
INDATA
CLKIN0
CLKIN1
CLKIN2
RESET
STROBE
CLKOUT
SH/LD

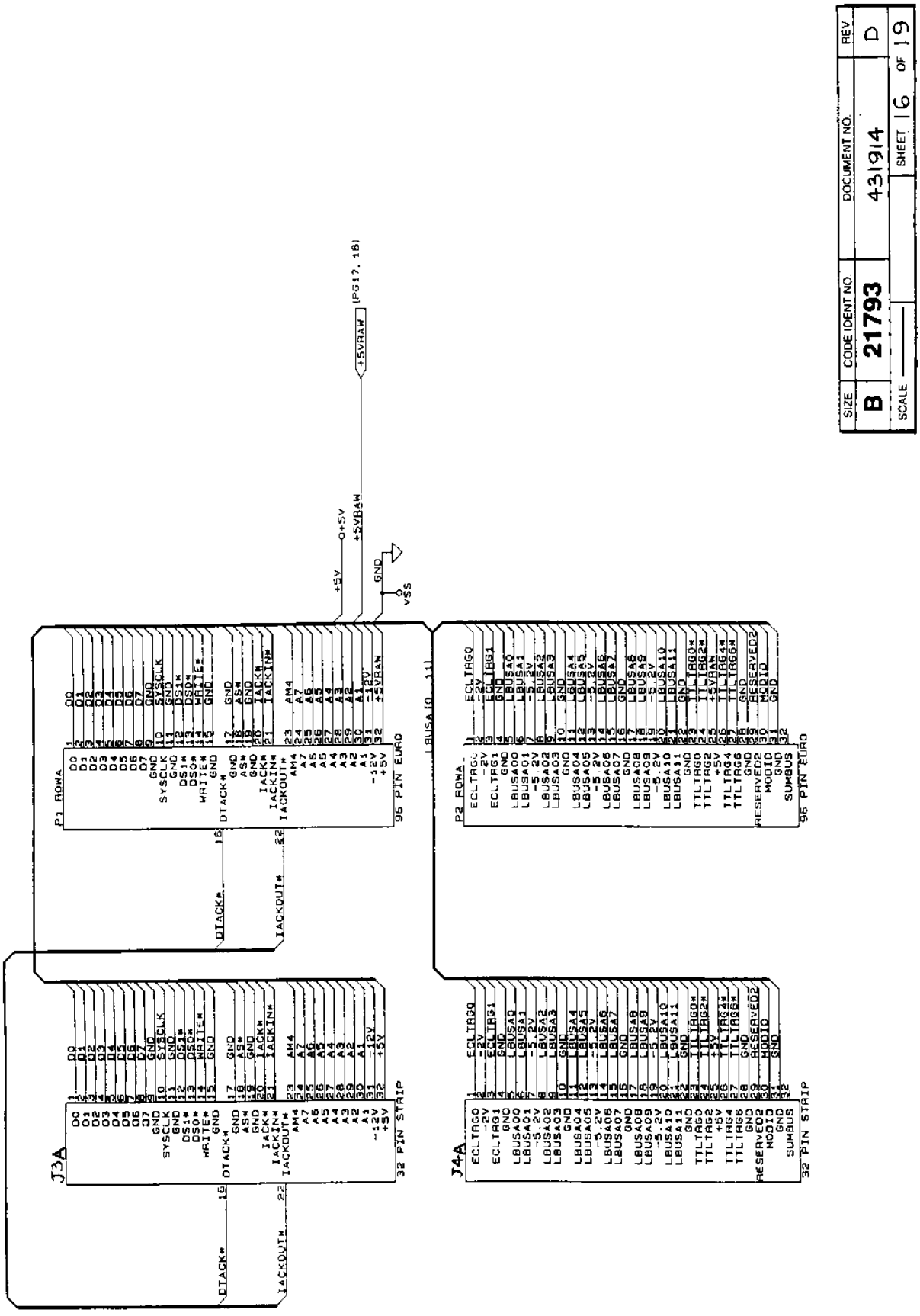


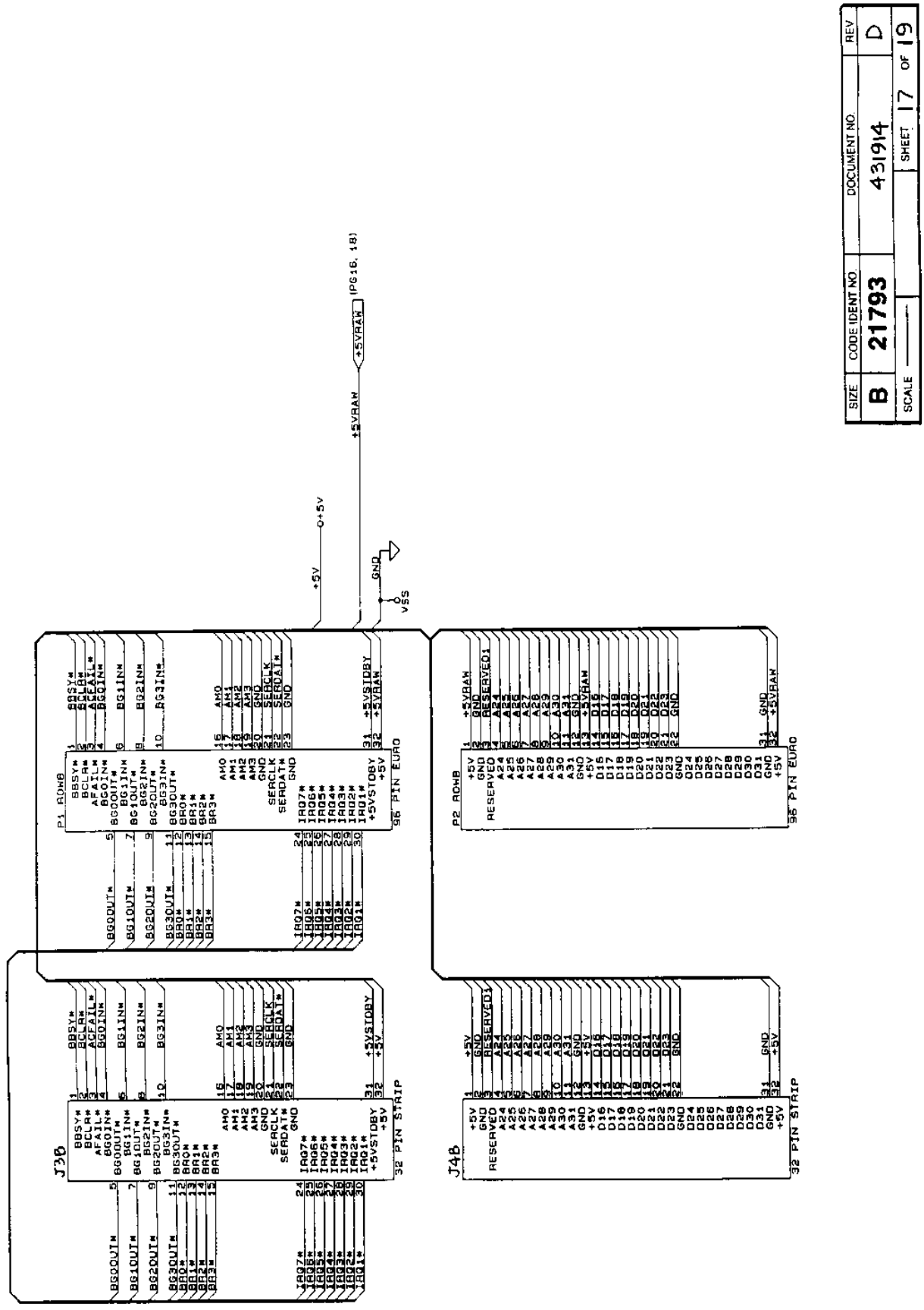

SIZE
B
CODE IDENT NO
21793
DOCUMENT NO
431914
REV
D
SCALE
SHEET 12 OF 19
INDATA
CLKIN6
CLKIN7
CLKIN8
RESET
STROBE
CLKOUT
SH/LD

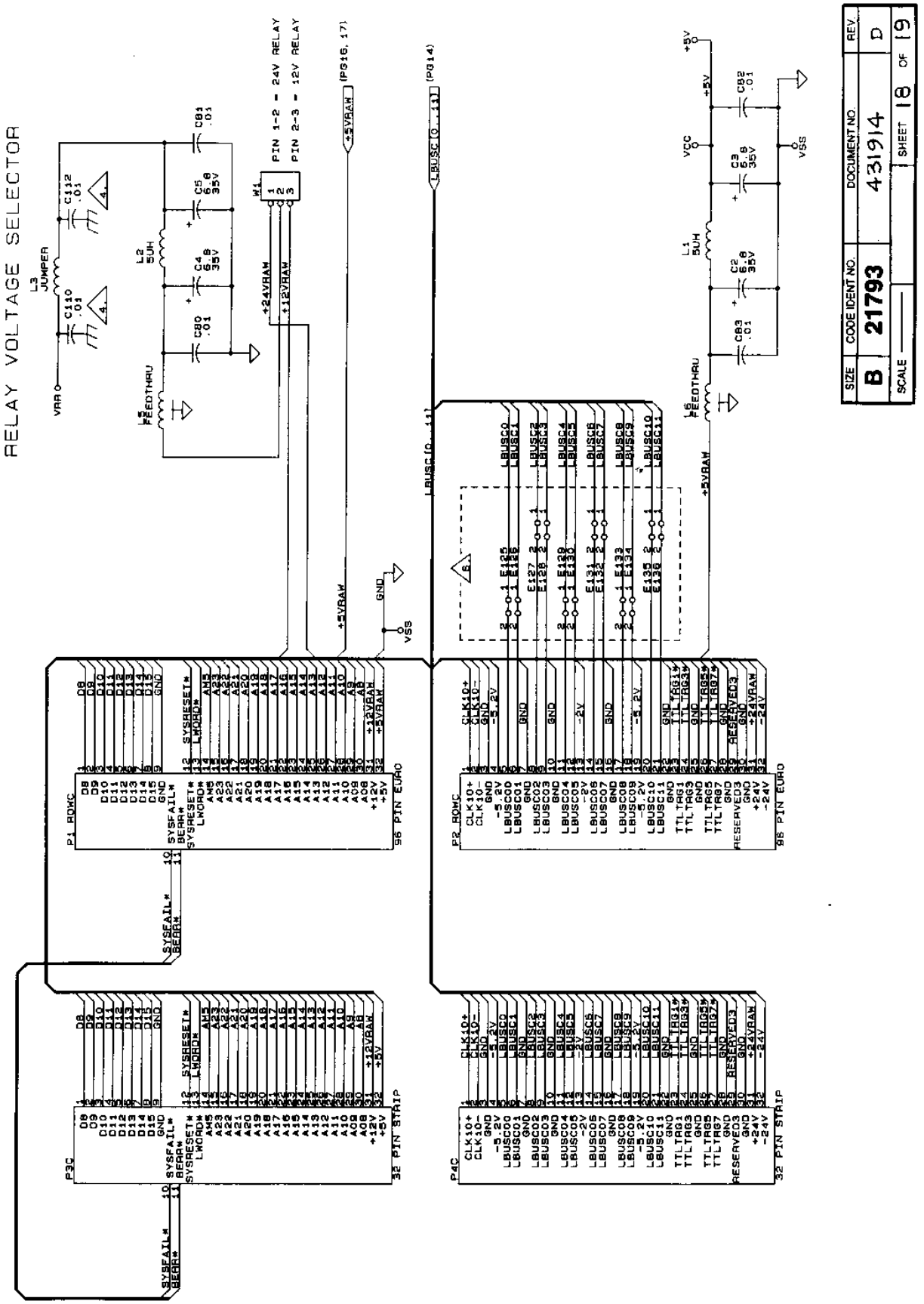


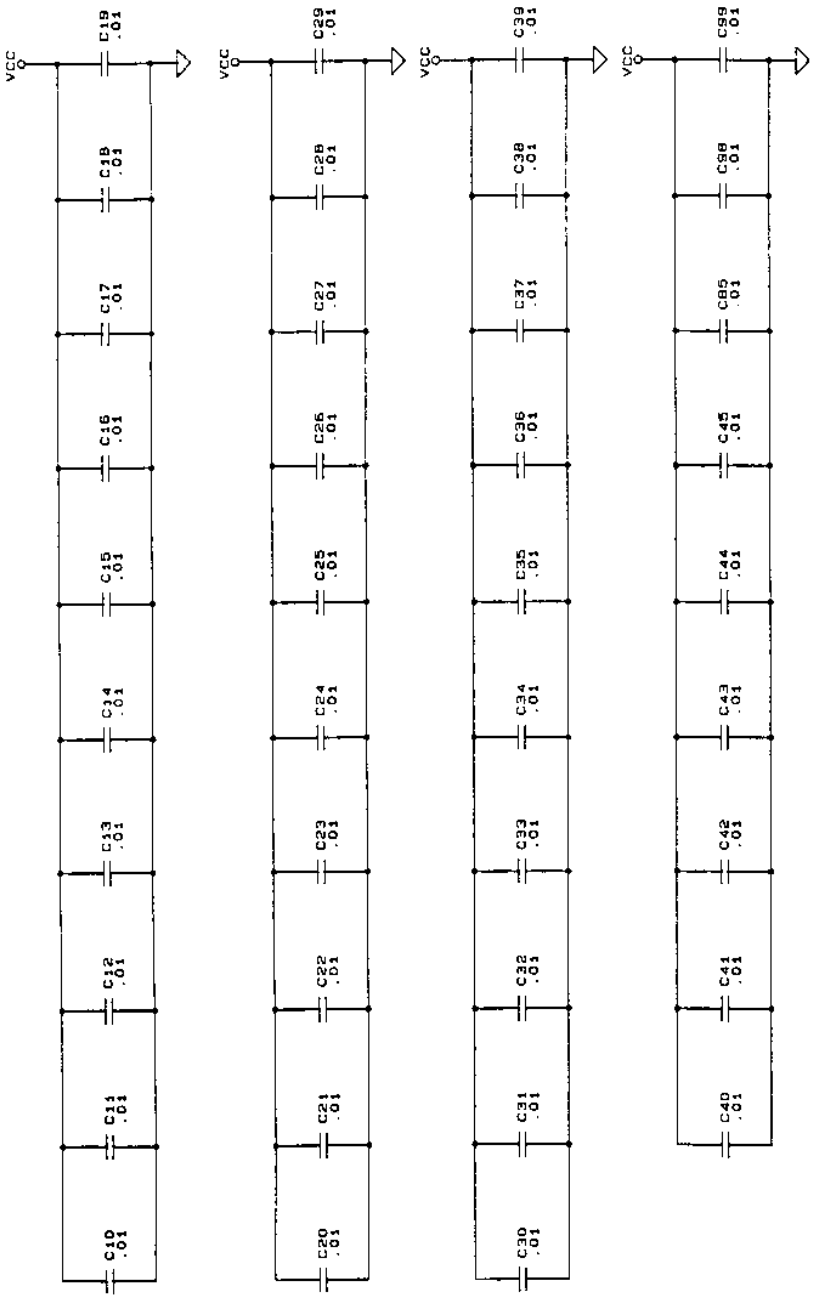

BOARD ID
AND ADDRESS SELECT
SIZE B
CODE IDENT NO 21793
DOCUMENT NO 431914
REV D
SCALE
SHEET 14 OF 19




SIZE
B
CODE IDENT NO.
21793
DOCUMENT NO.
431914
REV
D
SCALE
SHEET 16 OF 19
J3A
32 PIN STRIP
J4A
32 PIN STRIP
P1 ROWA
96 PIN EURO
P2 ROWA
96 PIN EURO
+5VRAW (PG17, 18)
+5V
+5VBAW
GND
VSS
DTACK*
IACKOUT*
LBUSA(0..31)




RELAY VOLTAGE SELECTOR
SIZE
CODE IDENT NO.
DOCUMENT NO.
REV.
B
21793
431914
D
SCALE
SHEET 18 OF 19
PIN 1-2 = 24V RELAY
PIN 2-3 = 12V RELAY
P1 ROMC
P2 ROMC
P3C
P4C
96 PIN EURO
32 PIN STRIP



SIZE	CODE IDENT NO.	DOCUMENT NO.	REV
B	21793	431914	D
SCALE		SHEET 19 OF 19	

Chapter 5
PARTS LIST

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404775-001 - FINAL ASSY, 1260-40A

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401914	PCB ASSY, 1260-40	21793	401914
{2}1	404937	SHIPPING KIT, 1260-40	21793	404937
{4}1	455446	SHIELD, SIDE PANEL, TOP	21793	455446
{5}1	455446-001	SHIELD, SIDE, TOP, L.H.	21793	455446-001
{6}1	455447	SHIELD, SIDE PANEL, BOTTOM	21793	455447
{7}1	455447-001	SHIELD, SIDE, BOTTOM, L.H.	21793	455447-001
{8}1	455499-001	PANEL, FRONT, 1260-40	21793	455499-001
{9}1	455501	COVER, TOP, 1260-40	21793	455501
{10}1	455502	COVER, BOTTOM, 1260-40	21793	455502
{11}1	455521	BRACKET, FRONT	21793	455521
{12}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{13}A/R	500132	WIRE, TEFLON TWISTED PAIR, 24 GA, BLK/WHT	-	-
{14}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{15}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{18}10	615044	SCREW, PPH, 4-40 X .375	-	-
{19}4	615049	SCREW, PPH, 4-40 X .875	-	-
{20}14	615512	SCREW, PPH, 2-56X.188	-	-
{21}14	617127	WASHER, LOCK, #4, LIGHT SERIES	-	-
{24}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{25}1	921148-001	LABEL SET VXI	21793	921148-001
{26}1	921212-005	LABEL, VXI, 1260-40	21793	921212-005
{27}1	921059	LABEL, CAUTION, STATIC	21793	921059
{28}1	920710	LABEL, IDENTIFICATION	21793	920710
{34}1	921309	LABEL, VXI SWITCH ID	21793	921309

404775-002 - FINAL ASSY, 1260-40B

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401914	PCB ASSY, 1260-40	21793	401914
{2}1	404937	SHIPPING KIT, 1260-40	21793	404937
{4}1	455446	SHIELD, SIDE PANEL, TOP	21793	455446
{5}1	455446-001	SHIELD, SIDE, TOP, L.H.	21793	455446-001
{6}1	455447	SHIELD, SIDE PANEL, BOTTOM	21793	455447
{7}1	455447-001	SHIELD, SIDE, BOTTOM, L.H.	21793	455447-001
{8}1	455499-001	PANEL, FRONT, 1260-40	21793	455499-001
{9}1	455501	COVER, TOP, 1260-40	21793	455501
{10}1	455502	COVER, BOTTOM, 1260-40	21793	455502
{11}1	455521	BRACKET, FRONT	21793	455521
{12}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{13}A/R	500132	WIRE, TEFLON TWISTED PAIR, 24 GA, BLK/WHT	-	-
{14}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{15}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{18}10	615044	SCREW, PPH, 4-40 X .375	-	-
{19}4	615049	SCREW, PPH, 4-40 X .875	-	-
{20}14	615512	SCREW, PFH, 2-56X.188	-	-
{21}14	617127	WASHER, LOCK, #4, LIGHT SERIES	-	-
{24}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{25}1	921148-001	LABEL SET VXI	21793	921148-001
{26}1	921212-005	LABEL, VXI, 1260-40	21793	921212-005
{27}1	921059	LABEL, CAUTION, STATIC	21793	921059
{28}1	920710	LABEL, IDENTIFICATION	21793	920710
{34}1	921309	LABEL, VXI SWITCH ID	21793	921309

404775-003 - FINAL ASSY, 1260-40C

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401914	PCB ASSY, 1260-40	21793	401914
{2}1	404937	SHIPPING KIT, 1260-40	21793	404937
{4}1	455446	SHIELD, SIDE PANEL, TOP	21793	455446
{5}1	455446-001	SHIELD, SIDE, TOP, L.H.	21793	455446-001
{6}1	455447	SHIELD, SIDE PANEL, BOTTOM	21793	455447
{7}1	455447-001	SHIELD, SIDE, BOTTOM, L.H.	21793	455447-001
{8}1	455499-001	PANEL, FRONT, 1260-40	21793	455499-001
{9}1	455501	COVER, TOP, 1260-40	21793	455501
{10}1	455502	COVER, BOTTOM, 1260-40	21793	455502
{11}1	455521	BRACKET, FRONT	21793	455521
{12}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{13}A/R	500132	WIRE, TEFLON TWISTED PAIR, 24 GA, BLK/WHT	-	-
{14}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{15}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{18}10	615044	SCREW, PPH, 4-40 X .375	-	-
{19}4	615049	SCREW, PPH, 4-40 X .875	-	-
{20}14	615512	SCREW, PFH, 2-56X.188	-	-
{21}14	617127	WASHER, LOCK, #4, LIGHT SERIES	-	-
{24}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{25}1	921148-001	LABEL SET VXI	21793	921148-001
{26}1	921212-005	LABEL, VXI, 1260-40	21793	921212-005
{27}1	921059	LABEL, CAUTION, STATIC	21793	921059
{28}1	920710	LABEL, IDENTIFICATION	21793	920710
{34}1	921309	LABEL, VXI SWITCH ID	21793	921309

401914 - PCB ASSY, 1260-40

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1	130177	CAPACITOR, CHIP, SMD, 270PF	95275	VJ1206A271KXAMT
C2-C5	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C10-C45	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C80-C83	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C85	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C98	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C99	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	601856-020	CONNECTOR, SMPL, PCB RECEPT	21793	601856-020
J201	601856-050	CONNECTOR, SMPL, PCB RECEPT	21793	601856-050
J202	601856-050	CONNECTOR, SMPL, PCB RECEPT	21793	601856-050
J203	601856-020	CONNECTOR, SMPL, PCB RECEPT	21793	601856-020
K1-K96	310197	RELAY, 2 FORM C	61529	TQ2E-24V
L1	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L2	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L3	600245	JUMPER, INSULATED	52210	L-2007-1
L5	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L6	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
P1	601675	CONNECTOR, EUROCARD TYPE C, 96-PIN	00779	532505-1
P2	601675	CONNECTOR, EUROCARD TYPE C, 96-PIN	00779	532505-1
SW1	600814	SWITCH, SLIDE, 6SPST	02660	31-010
U1	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U2	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U3	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U4	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U5	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U6	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U7	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U8	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U9	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U10	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U11	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U12	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U13	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U14	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U15	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U16	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U17	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U18	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U19	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U20	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U21	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U22	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U23	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U24	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U25	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U26	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U27	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U28	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U29	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U30	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U31	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U32	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U33	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U34	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U35	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U36	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U37	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D

401914 - PCB ASSY, 1260-40

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
U38	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U39	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U40	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U41	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U42	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U43	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U44	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U45	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U46	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U47	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U48	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U49	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U50	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U51	231125	IC, DIGITAL, LINE DRIVER	27014	DS26LS31MN
U52	231154	IC, PROGRAMMED PLA	21793	231154
U53	231153	IC, PROGRAMMED PLA	21793	231153
U54	231094	IC, DEMUX DECODER	18324	N74LS138D
U55	231094	IC, DEMUX DECODER	18324	N74LS138D
U56	231135	IC, DIGITAL, 4-BIT COMPARATOR	18324	PC74HCT85D
U57	231093	IC, QUAD COMPARATOR	04713	LM339D
U60	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U61	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U62	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U70	231152	IC, PROGRAMMED PIA	21793	231152
U71	231147	IC, MULTIPLEXER	04713	74HC253D
U72	231147	IC, MULTIPLEXER	04713	74HC253D
Z1	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z2	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z3	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
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
Z13	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z14	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z15	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z16	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z17	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z18	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z19	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z20	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z21	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z22	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z23	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z24	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z25	080114	RES NETWORK, 16P8R, 15K	73138	628-AL-153J
Z26	080120	RES NETWORK, 10K	11236	767-161R10K
{46}1	411914	PCB 1260-14 (UNLOADED)	21793	411914
{50}4	611227	SPACER, PRESS, #4, PCB	46384	KFSE-116-20
{51}8	615012	SCREW, PPH, 2-56 X .125	-	-
{57}1	401951	PCB ASSY., LBUS JUMPER	21793	401951
{58}1	401951-003	PCB ASSY., P3 JUMPER	21793	401951-003
{59}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{60}A/R	500023	WIRE, BARE COPPER/TIN, 24 GA	21793	500023

401914 - PCB ASSY, 1260-40

REF DESIG	RACAL-INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{61}A/R	921279	LOCQUIC, PRIMER	05972	74756
{62}A/R	921280	LOCTITE, HIGH STRENGTH	05972	27121

404937 - SHIPPING KIT, 1260-40

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	601855-020	CONNECTOR, SGMC. CABLE PLUG	21793	601855-020
{7}2	601855-050	CONNECTOR, SGMC. CABLE PLUG	21793	601855-050
{8}140	601857	CONTACT, SGMC. M	28198	M5422N
{10}3	615014	SCREW, PPH, 2-56 X .250	-	-
{11}1	980673-007	MANUAL, 1260-40	21793	980673-007

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
11236	CTS OF BERNE, INC. BERNE, IN
18324	SIGNETICS, INC. SUNNYVALE, CA
21793	RACAL INSTRUMENTS IRVINE, CA
27014	NATIONAL SEMI-CONDUCTOR CORP. SANTA CLARA, CA
28198	POSITRONIC INDUSTRIES INC. SPRINGFIELD, MO
46384	PENN ENG. & MFG. CORP DOYLESTOWN, PA
52072	CIRCUIT ASSY. CORP. COSTA MESA, CA
52210	GETTING ENGRG. & MFG. CO. SPRING MILLS, PA
56289	SPAGUE ELECTRIC CO. N. ADAMS, MA
61529	AROMAT CORP. CUPERTINO, CA
62559	SCHROFF, INC. WARWICK, RI
73138	BECKMAN INSTRUMENTS FULLERTON, CA
91637	DALE ELECTRONICS, INC. COLUMBUS, NE
95275	VITRAMON, INC. BRIDGEPORT, CT

Chapter 6
OPTIONAL HARNESS ASSEMBLIES

The following harness assemblies are used to connect Racal Instruments Model 1260-40 to Freedom Series Test Receiver Interfaces.

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

407284, Virginia Panel, Inc Series VP90 Interface Harness

407285, TTI Testron, Inc. Interface Harness (TTI Receiver must be above chassis)

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

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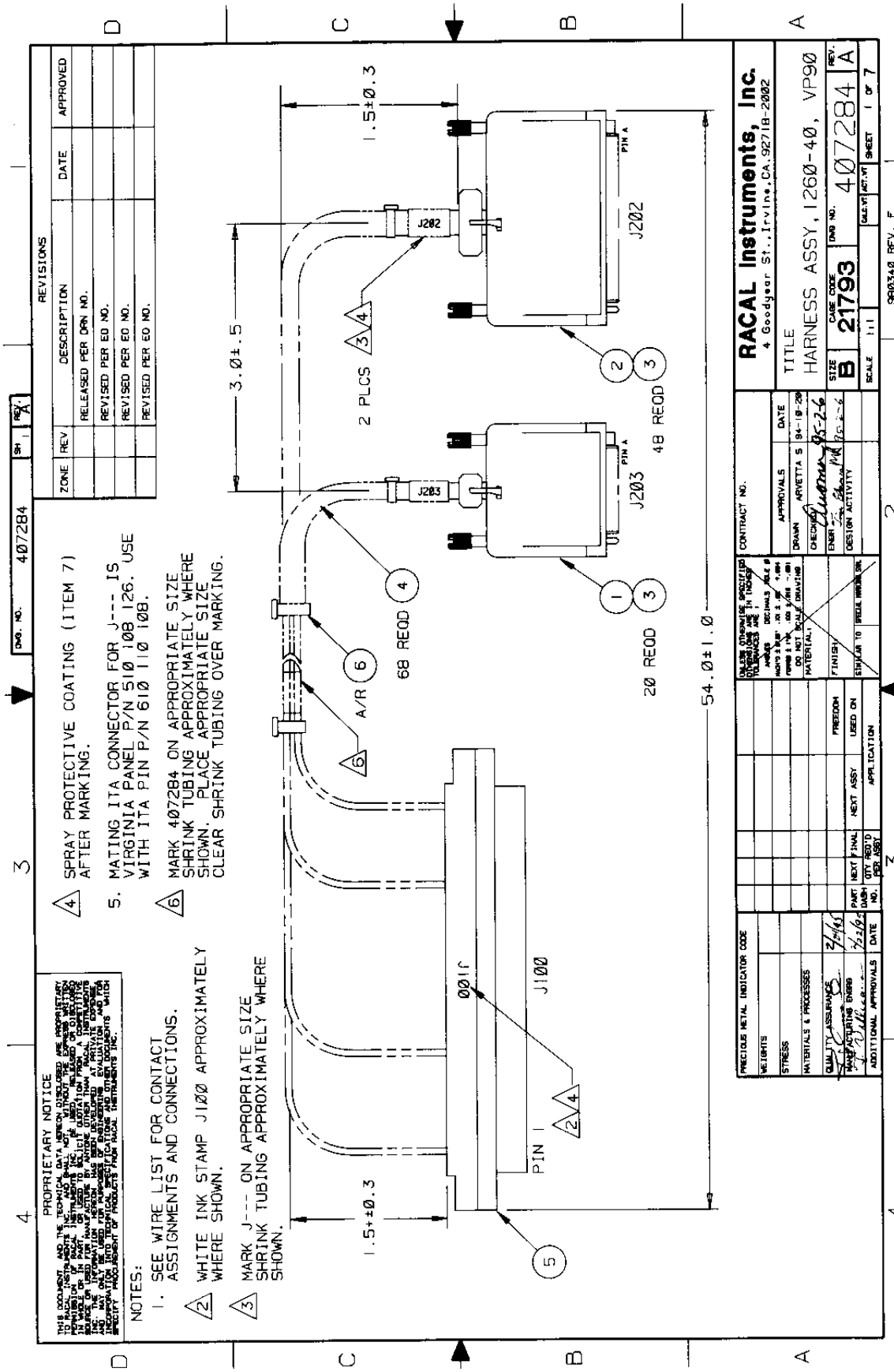
RACAL Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002
TITLE
HARNESS ASSY, 1260-40, VP90
SIZE B
CAGE CODE 21793
DWG NO. 407284
REV. A
SCALE 1:1
SHEET 1 OF 7
980340 REV. F
DWG. NO. 407284
REVISIONS
ZONE REV DESCRIPTION DATE APPROVED
RELEASED PER DAN NO.
REVISED PER ED NO.
REVISED PER ED NO.
REVISED PER ED NO.
PROPRIETARY NOTICE
NOTES:
1. SEE WIRE LIST FOR CONTACT ASSIGNMENTS AND CONNECTIONS.
2 WHITE INK STAMP J100 APPROXIMATELY WHERE SHOWN.
3 MARK J--- ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
4 SPRAY PROTECTIVE COATING (ITEM 7) AFTER MARKING.
5. MATING ITA CONNECTOR FOR J--- IS VIRGINIA PANEL P/N 510 108 126. USE WITH ITA PIN P/N 610 110 108.
6 MARK 407284 ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN. PLACE APPROPRIATE SIZE CLEAR SHRINK TUBING OVER MARKING.
J100
J202
J203
PIN 1
PIN A
2 PLCS
48 REQD
68 REQD
20 REQD
A/R
3.0±.5
1.5±.3
1.5+±.3
54.0±1.0
PRECIOUS METAL INDICATOR CODE
WEIGHTS
STRESS
MATERIALS & PROCESSES
QUALITY ASSURANCE
MANUFACTURING ENGRG
ADDITIONAL APPROVALS
PART DASH NO.
NEXT ASSY
APPLICATION
FREEDOM
USED ON
CONTRACT NO.
APPROVALS
DRAWN ARVETTA S 94-10-20
CHECKED
ENGR
DESIGN ACTIVITY
DO NOT SCALE DRAWING
MATERIAL
FINISH

ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		601855-020	CON-CAB-PLG20CP,-1260-40	1	J203
2		601855-050	CON-CAB-PLG50CP,-1260-30-40	1	J202
3		602092-001	CONTACT, SGMC MALE, CRIMP	68	W/J202, J203
4		602201-806	PATCHCORD, SIGNAL, 24 AWG 60"	68	W/J100
5		602201-003	CON-RCV-PLG096C,---T-VP90	1	J100
6		610777	TIE-CA-LKG-.062-.074	A/R	
7		910541	POLYURETHANE CONF.COAT	A/R	

DOC. NO. 407284

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, VP90	A	21793	407284	A
	DRN			SHEET 2 of 7

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J202,J203)	CABLE	407284		SYSTEM WIRE LIST

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. 407284

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, VP90	A	21793	407284	A
	DRN		SHEET 3 of 7	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-33 (602201-003)	J203-K 602092-001	24 AWG WHT	602201-806	54"	ROW 0A
2	J100-1 (602201-003)	J203-D 602092-001	24 AWG WHT	602201-806	54"	ROW 0B
3	J100-65 (602201-003)	J203-H 602092-001	24 AWG WHT	602201-806	54"	ROW 1A
4	J100-34 (602201-003)	J203-E 602092-001	24 AWG WHT	602201-806	54"	ROW 1B
5	J100-2 (602201-003)	J203-J 602092-001	24 AWG WHT	602201-806	54"	ROW 2A
6	J100-66 (602201-003)	J203-N 602092-001	24 AWG WHT	602201-806	54"	ROW 2B
7	J100-35 (602201-003)	J203-S 602092-001	24 AWG WHT	602201-806	54"	ROW 3A
8	J100-3 (602201-003)	J203-L 602092-001	24 AWG WHT	602201-806	54"	ROW 3B
9	J100-67 (602201-003)	J203-P 602092-001	24 AWG WHT	602201-806	54"	ROW 4A
10	J100-36 (602201-003)	J203-M 602092-001	24 AWG WHT	602201-806	54"	ROW 4B
11	J100-4 (602201-003)	J203-R 602092-001	24 AWG WHT	602201-806	54"	ROW 5A
12	J100-68 (602201-003)	J203-V 602092-001	24 AWG WHT	602201-806	54"	ROW 5B
13	J100-37 (602201-003)	J203-X 602092-001	24 AWG WHT	602201-806	54"	ROW 6A
14	J100-5 (602201-003)	J203-T 602092-001	24 AWG WHT	602201-806	54"	ROW 6B
15	J100-69 (602201-003)	J203-W 602092-001	24 AWG WHT	602201-806	54"	ROW 7A
16	J100-38 (602201-003)	J203-U 602092-001	24 AWG WHT	602201-806	54"	ROW 7B
17	J100-6 (602201-003)	J203-A 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
18	J100-70 (602201-003)	J203-B 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
19	J100-39 (602201-003)	J203-C 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
20	J100-7 (602201-003)	J203-F 602092-001	24 AWG WHT	602201-806	54"	CHASSIS GND
21	J100-71 NO CONNECT					
22	J100-40 NO CONNECT					
23	J100-8 NO CONNECT					
24	J100-72 NO CONNECT					
25	J100-41 (602201-003)	J202-DD 602092-001	24 AWG WHT	602201-806	54"	COLUMN 0A

DOC. NO. 407284

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, VP90	A	21793	407284	A
	DRN		SHEET 4 of 7	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J100-9 (602201-003)	J202-EE 602092-001	24 AWG WHT	602201-806	54"	COLUMN 0B
27	J100-73 (602201-003)	J202-BB 602092-001	24 AWG WHT	602201-806	54"	COLUMN 1A
28	J100-42 (602201-003)	J202-CC 602092-001	24 AWG WHT	602201-806	54"	COLUMN 1B
29	J100-10 (602201-003)	J202-v 602092-001	24 AWG WHT	602201-806	54"	COLUMN 2A
30	J100-74 (602201-003)	J202-w 602092-001	24 AWG WHT	602201-806	54"	COLUMN 2B
31	J100-43 (602201-003)	J202-t 602092-001	24 AWG WHT	602201-806	54"	COLUMN 3A
32	J100-11 (602201-003)	J202-u 602092-001	24 AWG WHT	602201-806	54"	COLUMN 3B
33	J100-75 (602201-003)	J202-k 602092-001	24 AWG WHT	602201-806	54"	COLUMN 4A
34	J100-44 (602201-003)	J202-m 602092-001	24 AWG WHT	602201-806	54"	COLUMN 4B
35	J100-12 (602201-003)	J202-h 602092-001	24 AWG WHT	602201-806	54"	COLUMN 5A
36	J100-76 (602201-003)	J202-j 602092-001	24 AWG WHT	602201-806	54"	COLUMN 5B
37	J100-45 (602201-003)	J202-a 602092-001	24 AWG WHT	602201-806	54"	COLUMN 6A
38	J100-13 (602201-003)	J202-b 602092-001	24 AWG WHT	602201-806	54"	COLUMN 6B
39	J100-77 (602201-003)	J202-Y 602092-001	24 AWG WHT	602201-806	54"	COLUMN 7A
40	J100-46 (602201-003)	J202-Z 602092-001	24 AWG WHT	602201-806	54"	COLUMN 7B
41	J100-14 (602201-003)	J202-S 602092-001	24 AWG WHT	602201-806	54"	COLUMN 8A
42	J100-78 (602201-003)	J202-T 602092-001	24 AWG WHT	602201-806	54"	COLUMN 8B
43	J100-47 (602201-003)	J202-P 602092-001	24 AWG WHT	602201-806	54"	COLUMN 9A
44	J100-15 (602201-003)	J202-R 602092-001	24 AWG WHT	602201-806	54"	COLUMN 9B
45	J100-79 (602201-003)	J202-H 602092-001	24 AWG WHT	602201-806	54"	COLUMN 10A
46	J100-48 (602201-003)	J202-J 602092-001	24 AWG WHT	602201-806	54"	COLUMN 10B
47	J100-16 (602201-003)	J202-E 602092-001	24 AWG WHT	602201-806	54"	COLUMN 11A
48	J100-80 (602201-003)	J202-F 602092-001	24 AWG WHT	602201-806	54"	COLUMN 11B
49	J100-49 (602201-003)	J202-A 602092-001	24 AWG WHT	602201-806	54"	COLUMN 12A
50	J100-17 (602201-003)	J202-B 602092-001	24 AWG WHT	602201-806	54"	COLUMN 12B

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, VP90	A	21793	407284	A
	DRN		SHEET 5 of 7	

DOC. NO. 407284

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
51	J100-81 (602201-003)	J202-C 602092-001	24 AWG WHT	602201-806	54"	COLUMN 13A
52	J100-50 (602201-003)	J202-D 602092-001	24 AWG WHT	602201-806	54"	COLUMN 13B
53	J100-18 (602201-003)	J202-K 602092-001	24 AWG WHT	602201-806	54"	COLUMN 14A
54	J100-82 (602201-003)	J202-L 602092-001	24 AWG WHT	602201-806	54"	COLUMN 14B
55	J100-51 (602201-003)	J202-M 602092-001	24 AWG WHT	602201-806	54"	COLUMN 15A
56	J100-19 (602201-003)	J202-N 602092-001	24 AWG WHT	602201-806	54"	COLUMN 15B
57	J100-83 (602201-003)	J202-U 602092-001	24 AWG WHT	602201-806	54"	COLUMN 16A
58	J100-52 (602201-003)	J202-V 602092-001	24 AWG WHT	602201-806	54"	COLUMN 16B
59	J100-20 (602201-003)	J202-W 602092-001	24 AWG WHT	602201-806	54"	COLUMN 17A
60	J100-84 (602201-003)	J202-X 602092-001	24 AWG WHT	602201-806	54"	COLUMN 17B
61	J100-53 (602201-003)	J202-c 602092-001	24 AWG WHT	602201-806	54"	COLUMN 18A
62	J100-21 (602201-003)	J202-d 602092-001	24 AWG WHT	602201-806	54"	COLUMN 18B
63	J100-85 (602201-003)	J202-e 602092-001	24 AWG WHT	602201-806	54"	COLUMN 19A
64	J100-54 (602201-003)	J202-f 602092-001	24 AWG WHT	602201-806	54"	COLUMN 19B
65	J100-22 (602201-003)	J202-n 602092-001	24 AWG WHT	602201-806	54"	COLUMN 20A
66	J100-86 (602201-003)	J202-p 602092-001	24 AWG WHT	602201-806	54"	COLUMN 20B
67	J100-55 (602201-003)	J202-r 602092-001	24 AWG WHT	602201-806	54"	COLUMN 21A
68	J100-23 (602201-003)	J202-s 602092-001	24 AWG WHT	602201-806	54"	COLUMN 21B
69	J100-87 (602201-003)	J202-x 602092-001	24 AWG WHT	602201-806	54"	COLUMN 22A
70	J100-56 (602201-003)	J202-y 602092-001	24 AWG WHT	602201-806	54"	COLUMN 22B
71	J100-24 (602201-003)	J202-z 602092-001	24 AWG WHT	602201-806	54"	COLUMN 23A
72	J100-88 (602201-003)	J202-AA 602092-001	24 AWG WHT	602201-806	54"	COLUMN 23B
73	J100-57 NO CONNECT					
74	J100-25 NO CONNECT					
75	J100-89 NO CONNECT					

DOC. NO. 407284

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, VP90	A	21793	407284	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
76	J100-58 NO CONNECT					
77	J100-26 NO CONNECT					
78	J100-90 NO CONNECT					
79	J100-59 NO CONNECT					
80	J100-27 NO CONNECT					
81	J100-91 NO CONNECT					
82	J100-60 NO CONNECT					
83	J100-28 NO CONNECT					
84	J100-92 NO CONNECT					
85	J100-61 NO CONNECT					
86	J100-29 NO CONNECT					
87	J100-93 NO CONNECT					
88	J100-62 NO CONNECT					
89	J100-30 NO CONNECT					
90	J100-94 NO CONNECT					
91	J100-63 NO CONNECT					
92	J100-31 NO CONNECT					
93	J100-95 NO CONNECT					
94	J100-64 NO CONNECT					
95	J100-32 NO CONNECT					
96	J100-96 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, 1260-40, VP90	A	21793	407284	A
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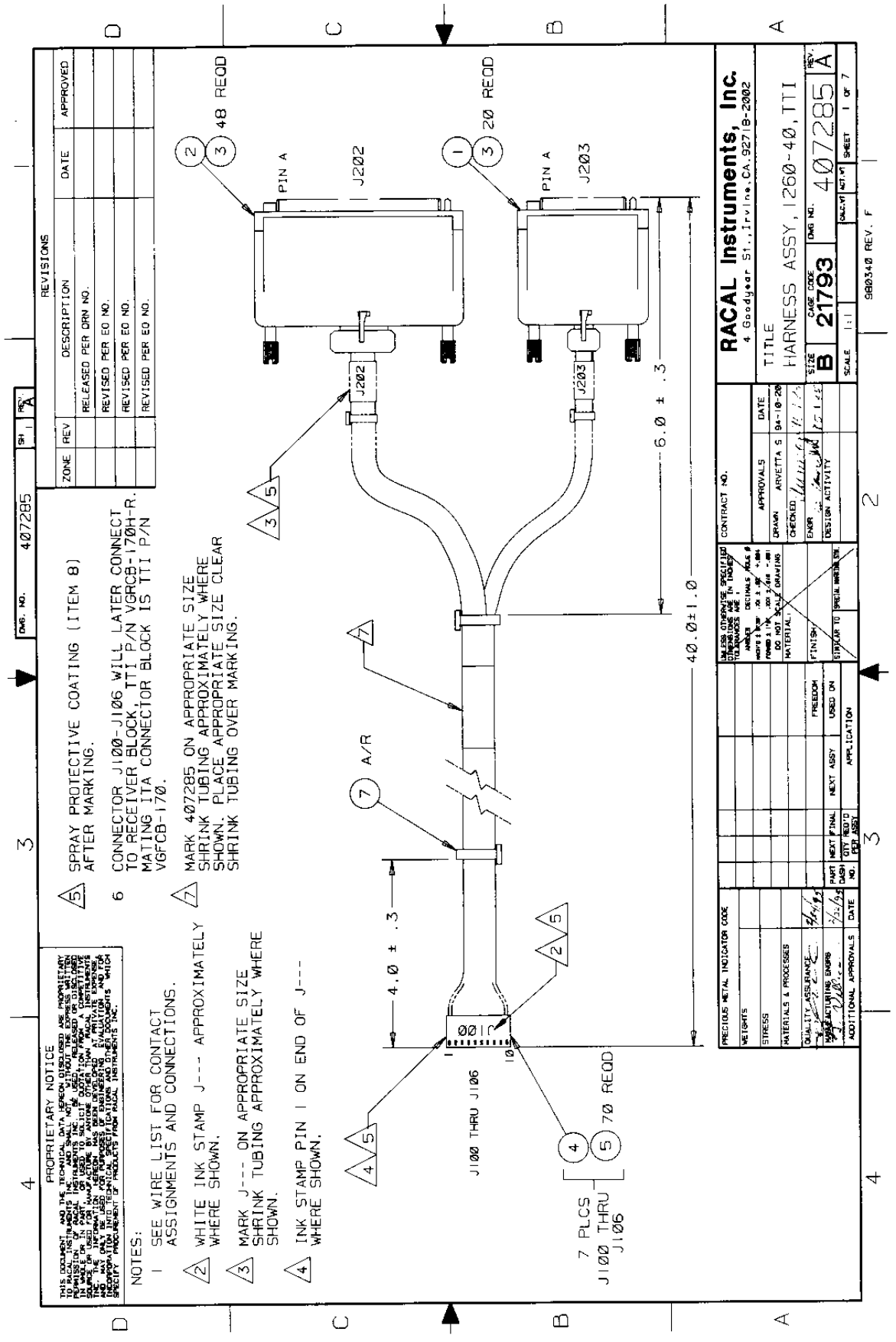

ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		601855-020	CON-CAB-PLG20CP.-1260-40	1	J203
2		601855-050	CON-CAB-PLG50CP.-1260-30-40G	1	J202
3		602092-001	CONT,SGMC MALE, CRIMP	68	W/202, J203
4		602193-010	CON-CAB-RCP10CP.100S	7	J100-J106
5		602199-001	CONTACT,CRIMP,RCP,28-22GA	70	W/J100-J106
6		524999	WRTEF-STR24G-9-9-9	A/R	
7		610777	TIE-CA-LKG-.062-.075	A/R	
8		910541	POLYURETHANE CONFORMAL COAT	A/R	

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx RW 01 (J100)	Uxx-SLOT yy (J203)	CABLE	407285		SYSTEM WIRE LIST
	BLK AAx RW 02 (J101)	Uxx-SLOT yy (J203)	CABLE	407285		
	BLK AAx RW 03 (J102)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 04 (J103)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 05 (J104)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 06 (J105)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 07 (J106)	Uxx-SLOT yy (J202)	CABLE	407285		

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. 407285

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 602199-001	J203-K 602092-001	24AWG WHT	524999	40"	ROW 0A
2	J100-2 602199-001	J203-D 602092-001	24AWG WHT	524999	40"	ROW 0B
3	J100-3 602199-001	J203-H 602092-001	24AWG WHT	524999	40"	ROW 1A
4	J100-4 602199-001	J203-E 602092-001	24AWG WHT	524999	40"	ROW 1B
5	J100-5 602199-001	J203-J 602092-001	24AWG WHT	524999	40"	ROW 2A
6	J100-6 602199-001	J203-N 602092-001	24AWG WHT	524999	40"	ROW 2B
7	J100-7 602199-001	J203-S 602092-001	24AWG WHT	524999	40"	ROW 3A
8	J100-8 602199-001	J203-L 602092-001	24AWG WHT	524999	40"	ROW 3B
9	J100-9 602199-001	J203-P 602092-001	24AWG WHT	524999	40"	ROW 4A
10	J100-10 602199-001	J203-M 602092-001	24AWG WHT	524999	40"	ROW 4B
11	J101-10 602199-001	J203-R 602092-001	24AWG WHT	524999	40"	ROW 5A
12	J101-9 602199-001	J203-V 602092-001	24AWG WHT	524999	40"	ROW 5B
13	J101-8 602199-001	J203-X 602092-001	24AWG WHT	524999	40"	ROW 6A
14	J101-7 602199-001	J203-T 602092-001	24AWG WHT	524999	40"	ROW 6B
15	J101-6 602199-001	J203-W 602092-001	24AWG WHT	524999	40"	ROW 7A
16	J101-5 602199-001	J203-U 602092-001	24AWG WHT	524999	40"	ROW 7B
17	J101-4 602199-001	J203-A 602092-001	24AWG WHT	524999	40"	CHASSIS GND
18	J101-3 602199-001	J203-B 602092-001	24AWG WHT	524999	40"	CHASSIS GND
19	J101-2 602199-001	J203-C 602092-001	24AWG WHT	524999	40"	CHASSIS GND
20	J101-1 602199-001	J203-F 602092-001	24AWG WHT	524999	40"	CHASSIS GND
21	J102-1 602199-001	J202-DD 602092-001	24AWG WHT	524999	40"	COLUMN 0A
22	J102-2 602199-001	J202-EE 602092-001	24AWG WHT	524999	40"	COLUMN 0B
23	J102-3 602199-001	J202-BB 602092-001	24AWG WHT	524999	40"	COLUMN 1A

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
24	J102-4 602199-001	J202-CC 602092-001	24AWG WHT	524999	40"	COLUMN 1B
25	J102-5 602199-001	J202-v 602092-001	24AWG WHT	524999	40"	COLUMN 2A
26	J102-6 602199-001	J202-w 602092-001	24AWG WHT	524999	40"	COLUMN 2B
27	J102-7 602199-001	J202-t 602092-001	24AWG WHT	524999	40"	COLUMN 3A
28	J102-8 602199-001	J202-u 602092-001	24AWG WHT	524999	40"	COLUMN 3B
29	J102-9 602199-001	J202-k 602092-001	24AWG WHT	524999	40"	COLUMN 4A
30	J102-10 602199-001	J202-m 602092-001	24AWG WHT	524999	40"	COLUMN 4B
31	J103-10 602199-001	J202-h 602092-001	24AWG WHT	524999	40"	COLUMN 5A
32	J103-9 602199-001	J202-j 602092-001	24AWG WHT	524999	40"	COLUMN 5B
33	J103-8 602199-001	J202-a 602092-001	24AWG WHT	524999	40"	COLUMN 6A
34	J103-7 602199-001	J202-b 602092-001	24AWG WHT	524999	40"	COLUMN 6B
35	J103-6 602199-001	J202-Y 602092-001	24AWG WHT	524999	40"	COLUMN 7A
36	J103-5 602199-001	J202-Z 602092-001	24AWG WHT	524999	40"	COLUMN 7B
37	J103-4 602199-001	J202-S 602092-001	24AWG WHT	524999	40"	COLUMN 8A
38	J103-3 602199-001	J202-T 602092-001	24AWG WHT	524999	40"	COLUMN 8B
39	J103-2 602199-001	J202-P 602092-001	24AWG WHT	524999	40"	COLUMN 9A
40	J103-1 602199-001	J202-R 602092-001	24AWG WHT	524999	40"	COLUMN 9B
41	J104-1 602199-001	J202-H 602092-001	24AWG WHT	524999	40"	COLUMN 10A
42	J104-2 602199-001	J202-J 602092-001	24AWG WHT	524999	40"	COLUMN 10B
43	J104-3 602199-001	J202-E 602092-001	24AWG WHT	524999	40"	COLUMN 11A
44	J104-4 602199-001	J202-F 602092-001	24AWG WHT	524999	40"	COLUMN 11B
45	J104-5 602199-001	J202-A 602092-001	24AWG WHT	524999	40"	COLUMN 12A
46	J104-6 602199-001	J202-B 602092-001	24AWG WHT	524999	40"	COLUMN 12B

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
47	J104-7 602199-001	J202-C 602092-001	24AWG WHT	524999	40"	COLUMN 13A
48	J104-8 602199-001	J202-D 602092-001	24AWG WHT	524999	40"	COLUMN 13B
49	J104-9 602199-001	J202-K 602092-001	24AWG WHT	524999	40"	COLUMN 14A
50	J104-10 602199-001	J202-L 602092-001	24AWG WHT	524999	40"	COLUMN 14B
51	J105-10 602199-001	J202-M 602092-001	24AWG WHT	524999	40"	COLUMN 15A
52	J105-9 602199-001	J202-N 602092-001	24AWG WHT	524999	40"	COLUMN 15B
53	J105-8 602199-001	J202-U 602092-001	24AWG WHT	524999	40"	COLUMN 16A
54	J105-7 602199-001	J202-V 602092-001	24AWG WHT	524999	40"	COLUMN 16B
55	J105-6 602199-001	J202-W 602092-001	24AWG WHT	524999	40"	COLUMN 17A
56	J105-5 602199-001	J202-X 602092-001	24AWG WHT	524999	40"	COLUMN 17B
57	J105-4 602199-001	J202-c 602092-001	24AWG WHT	524999	40"	COLUMN 18A
58	J105-3 602199-001	J202-d 602092-001	24AWG WHT	524999	40"	COLUMN 18B
59	J105-2 602199-001	J202-e 602092-001	24AWG WHT	524999	40"	COLUMN 19A
60	J105-1 602199-001	J202-f 602092-001	24AWG WHT	524999	40"	COLUMN 19B
61	J106-1 602199-001	J202-n 602092-001	24AWG WHT	524999	40"	COLUMN 20A
62	J106-2 602199-001	J202-p 602092-001	24AWG WHT	524999	40"	COLUMN 20B
63	J106-3 602199-001	J202-r 602092-001	24AWG WHT	524999	40"	COLUMN 21A
64	J106-4 602199-001	J202-s 602092-001	24AWG WHT	524999	40"	COLUMN 21B
65	J106-5 602199-001	J202-x 602092-001	24AWG WHT	524999	40"	COLUMN 22A
66	J106-6 602199-001	J202-y 602092-001	24AWG WHT	524999	40"	COLUMN 22B
67	J106-7 602199-001	J202-z 602092-001	24AWG WHT	524999	40"	COLUMN 23A
68	J106-8 602199-001	J202-AA 602092-001	24AWG WHT	524999	40"	COLUMN 23B
69	J106-9 602199-001	NO CONNECT				

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HARNESS ASSEMBLY, 1260-40, TTI	A	21793	407285	A
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
70	J106-10 602199-001	NO CONNECT				

DOC. NO. 407285

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, TTI	A	21793	407285	A
	DRN		SHEET 7 of 7	

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 1260-40 to Racal Instruments for calibration or servicing. The original shipping container 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

United States

(Corporate Headquarters and Service Center)
4 Goodyear Street, Irvine, CA 92618
Tel: (800) 722-2528, (949) 859-8999; Fax: (949) 859-7139

5730 Northwest Parkway Suite 700, San Antonio, TX 78249
Tel: (210) 699-6799; Fax: (210) 699-8857

Europe

(European Headquarters and Service Center)
18 Avenue Dutartre, 78150 LeChesnay, France
Tel: +33 (0)1 39 23 22 22; Fax: +33 (0)1 39 23 22 25

29-31 Cobham Road, Wimborne, Dorset BH21 7PF, United Kingdom
Tel: +44 (0) 1202 872800; Fax: +44 (0) 1202 870810

Via Milazzo 25, 20092 Cinisello B, Milan, Italy
Tel: +39 (0)2 6123 901; Fax: +39 (0)2 6129 3606

Racal Instruments Group Limited, Technologie Park,
D-51429 Bergisch Gladbach, Germany
Tel: +49 2204 844205; Fax: +49 2204 844219

Repair and Calibration Request Form

To allow us to better understand your repair requests, we suggest you use the following outline when calling and include a copy with your instrument to be sent to the Racal Instruments Repair Facility.

Model_____ Serial No._____ Date_____

Company Name_____ Purchase Order #_____

Billing Address_____

City

State/Province Zip/Postal Code Country

Shipping Address_____

City

State/Province Zip/Postal Code Country

Technical Contact_____ Phone Number ( )_____
Purchasing Contact_____ Phone Number ( )_____

1. Describe, in detail, the problem and symptoms you are having. Please include all set up details, such as input/output levels, frequencies, waveform details, etc.

2. If problem is occurring when unit is in remote, please list the program strings used and the controller type.

3. Please give any additional information you feel would be beneficial in facilitating a faster repair time (i.e., modifications, etc.)

4. Is calibration data required? Yes No (please circle one)

Call before shipping
Note: We do not accept "collect" shipments.

Ship instruments to nearest support office.