

1260 VXI SWITCHING CARD

1260-38T MULTIPLEXER / SCANNER

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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:

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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@racalstruments.com.

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FOR YOUR SAFETY

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



CAUTION
RISK OF ELECTRICAL SHOCK
DO NOT OPEN



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 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.

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Chapter 1

MODULE SPECIFICATION

Introduction

The 1260-38T 1 x 128 Two-Wire Scanner/Multiplexer Module consists of eight pairs of 1 x 8 multiplexers. These eight pairs of multiplexers, in conjunction with interconnecting relays, allow the 1260-38T module to be configured as:

- One 1 x 64 Four-wire multiplexer
- One 1 x 128 Two-wire multiplexer

In addition, each pair of 1 x 8 multiplexers can be independently configured as:

- Two 1 x 8 Two-wire multiplexers
- One 1 x 16 Two-wire multiplexer
- One 1 x 8 Four-wire multiplexer

Figure 3-1, 1260-38 Module Configuration Block Diagram, and Figure 3-2, 1260-38 Multiplexer Configuration Block Diagram, shows a diagrammatic representation of the switch module and multiplexer pair, respectively.

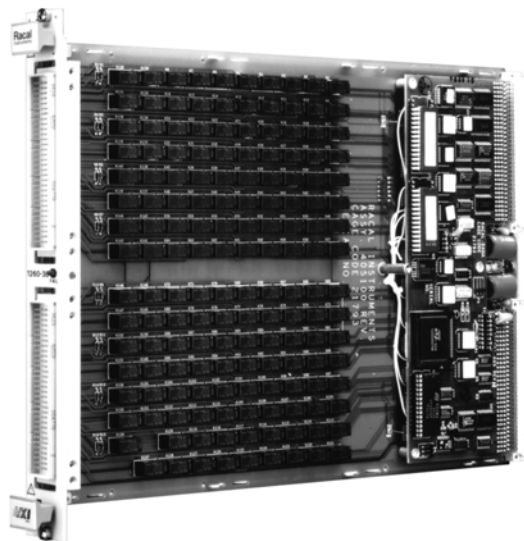


Figure 1-1, 1260-38T Multiplexer / Scanner

1260-38T Module Specification

Maximum Switch Power	125VA, 60W
Maximum Switch Voltage	250VAC, 220VDC
Maximum Switch Current	2A AC, 2A DC
Bandwidth (50 Ω)	
1 x 8 Configuration	>30MHz
1 x 16 Configuration	>30MHz
1 x 128 Configuration	>2MHz
Insertion Loss (50 Ω)	
1 x 8 Configuration	<2dB to 10MHz
Crosstalk (50 Ω)	
1 x 8 Configuration	<-50dB to 10MHz
Isolation (50 Ω)	
1 x 8 Configuration	>45dB to 10kHz
Path Resistance	
1 x 8 Configuration	<0.75 Ω
1 x 128 Configuration	<1.0 Ω
Thermal EMF	
1 x 8 Configuration	<15 μ V
1 x 128 Configuration	<20 μ V
Impedance	
High-Low	> 2000M Ω
High-Chassis	> 2000M Ω
Low to Chassis	> 2000M Ω
Capacitance	
Channel to Chassis (1 x 8)	<5pF
Channel to Chassis (1 x 128)	<5pF
High to Low (1 x 8)	<120pF
High to Low (1 x 128)	<600pF

Temperature

Operating	0°C to +55°C
Non-Operating	-40°C to +71°C

Relative Humidity

95+1-5% RH Non-Condensing	<30°C
75+1-5 %RH	> 30°C
45+1-5 %RH	> 40°C

Altitude

Operating	10,000 ft
Non-Operating	15,000ft

Vibration 0.013" double amplitude,
5-55Hz

Shock, functional 30g, 11msec, ½ sine wave

Bench Handling 4inch drop

Cooling Requirement

Without Option 01 installed

Airflow	2.0 liters/sec
Backpressure	0.05mm H ₂ O

With Option 01 installed

Airflow	3.0 liters/sec
Backpressure	0.2mm H ₂ O

Power Requirement

Without Option 01 installed

+5V Static Current, I _{pm}	0.4A
+5V Dynamic Current, I _{dm}	0.075A

With Option 01 installed

+5V Static Current, I _{pm}	2.5A
+5V Dynamic Current, I _{dm}	0.225A

+24V Static Current, I _{pm}	6mA per energized relay
+24V Dynamic Current, I _{dm}	0A

Weight

Without Option 01 installed	3.21b (1.45kg)
With Option 01 installed	3.51b (1.60kg)

Minimum Option 01 Firmware Revision 28.1

Ordering Information

Listed below are part numbers for both the 1260-38T Switch Module and available mating connector.

Model Numbers	Description	Part #
1260-38T Switch Module	1260-38T, 2w, 1 x 128 sc mux, 2 amp	407410-001
160-Pin Mating Connector	160-Pin Conn. Kit w/backshell and pins	407407
Cable Assy, 6ft, sleeved	160-Pin Cable Assy, 6ft, 24GA	407408
Cable Assy, 12ft, sleeved	160-Pin Cable Assy, 12ft, 24GA	407409

Safety

Refer to the "**FOR YOUR SAFETY**" page preceding the Table of Contents. Follow 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 1-800-722-3262 and ask for the Parts Department.

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

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.
3. Inspect the switching module for any defect or damage. Immediately notify the carrier if any damage is apparent.
4. Have a qualified person check the instrument for safety before use.

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 material is unavailable, wrap the switching module in an ESD Shielding bag 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 to the 1260-38T is described in the Installation Section of the 1260 Series VXIbus Switching Cards Manual.

Module Installation

Installation of the 1260-38T Switching Module into a VXI mainframe, including the setting of switches SW1-1 through SW1-4, SW2 and SW3, is described in the Installation section of the 1260 Series VXI Switching Cards Manual. Configuration of switches SW 1-5 and SW 1-6 is described below.

1260-38 ID Byte

Refer to Section 2 of the Series 1260 VXI Switching Card Manual for an explanation of Module ID Byte.

The 1260-38T may be configured for two-wire or four wire switching. The two-wire configuration closes one relay for the selected channel. Four-wire configuration closes two relays for the selected channel. Each configuration responds to different sets of values for <channel number>. The set of values the 1260-38T responds to is controlled by switch SW1- 5. The switch settings that correspond to the two configurations are as follows:

Configuration*	S1 Switch 5	S1 Switch 6
Two-wire	Off	Off
Four-wire	On	Off

The 1260-38T is set at the factory for two-wire configuration.

NOTE

***The software will report the Model Number as “1260-38A” for the two-wire configuration, or “1260-38B” for the four-wire configuration.**

MODULE OPERATION

Module Configuration

The 1260-38T is a 1 x 128 Two-Wire Scanner/Multiplexer Module consisting of eight pairs of 1 x 8 multiplexers. These eight pairs of multiplexers, in conjunction with interconnecting relays, allow the 1260-38T module to be configured as:

- One 1 x 64 Four-wire multiplexer
- One 1 x 128 Two-wire multiplexer

Each pair of 1 x 8 multiplexers can be independently configured as:

- Two 1 x 8 Two-wire multiplexers
- One 1 x 16 Two-wire multiplexer
- One 1 x 8 Four-wire multiplexer

Reference should be made to Figure 3-1, 1260-38T Module Configuration Block Diagram, and Figure 3-2, 1260-38T Multiplexer Configuration Block Diagram.

The multiplexer pairs consist of two 1 x 8 multiplexers, giving a total of sixteen 1 x 8 multiplexers (00 through 15). Each 1 x 8 multiplexer consists of one two-wire common and eight two-wire channels. The channels are numbered 0000 to 0007 for multiplexer 00, through 0150 to 0157 for multiplexer 15.

Interconnecting relays (channels 1002, 2002,8002) join the multiplexers to form multiplexer pairs. The multiplexer pairs are formed by multiplexers 00-01, 02-03, 04-05, 06-07, 08-09, 10-11, 12-13, and 14-15.

The multiplexer pairs are joined to each other through seven more pairs of interconnecting relays (1000, 1001, 2000, 2001, ...7000, 7001). This allows pairs of the module to be configured for four-wire operation.

Two-Wire Operation

Two-wire configuration gives the most flexibility as it allows all channels (0000 through 0157, 1000 through 8000, and 9000 through 9007) to be selected.

Interconnecting relays (1000, 1001, 2000, 2001,7000, 7001) permit linking of all the 1 x 8 multiplexers to give configurations from sixteen 1 x 8 multiplexers up to one 1 x 128 multiplexer.

Example: Make a two-wire 1 x 32 using multiplexes 00,01,02,03

Close channels 1000, 1002 and 2002.

Four-Wire Operation

Four-wire configuration permits four-wire closures only. Only even-numbered multiplexers (00, 02,14) may be selected. Closing a channel in an even-numbered multiplexer also closes the equivalent channel in the adjacent odd-numbered multiplexer. For example, closing Channel **0002** (channel 2 of multiplexer 00) will also close channel **0012** (channel 2 of multiplexer 01).

The same applies to the interconnect relays (channels 1000, 1001, 2000, 2001,7000, 7001). Closing channel 1000 will also close channel 1001. In four-wire operation, the interconnect relays permit configurations of eight 1 x 8 multiplexers up to one 1 x 64 multiplexer.

Example: Make a four-wire 1 x 24 using multiplexers 00, 01, 02, 03, 04, 05

Close channels 1000 and 2000.

Front Panel Connectors

The 1260-38T front panel connectors are labeled J200 and J201. The connector type is 5 x 32 (160-pin) DIN 41 612 male. The pin numbering is shown in Figure 3-3.

The mapping of channel numbers to connector pins and the available mating connector cable is given in Table 3-1.

Mating Connectors

There are no mating connectors shipped with the 1260-38T module. Racal Instruments offers the following accessories for mating connectors (see ordering information for part numbers):

- 160-Pin Connector Kit with backshell and pins
- 160-Pin Cable Assy, 6ft, 24GA
- 160-Pin Cable Assy, 12ft, 24GA

The 160-Pin Connector kit consists of a connector housing, customized backshell and 170 crimp pins. The backshell design has been optimized for system integration. The connector kit has been designed for 22 to 26 gauge cable. The crimp pin will lock or 'click' into the connector housing only when installed correctly. The assembler should ensure that the crimp pin is locked by tugging on the cable after insertion.

The hand crimp tool for loose crimp contacts is Erni Part Number 014 374. The disassembly tool is Erni Part Number 471 555.

The cable assemblies (optional lengths of 6ft. or 12ft.) use the 160-Pin Connector kit along with two 80-wire multi-colored 24 gauge cables. One end is un-terminated. Refer to Table 3.1 for the mapping of channels to connector and cable.

1260-38T Module Specific Syntax

The Module Specific Syntax for the 1260-38T 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 1260-38T Multiplexer/Scanner module is as follows:

<COMMAND> <relay designator> [;<relay designator>]

where:

<relay designator> ::= <module address>.<channel range>
[,<channel range>...]

<channel range> ::= <channel descriptor>[-<channel descriptor>]

<channel descriptor> ::= <interconnect><mux select><channel>

<module address> ::= 1.. 12

<interconnect> ::= 0 to 9

Where: 0 = multiplexer channels.
 1 to 8 = multiplexer interconnect relays.

<mux select> ::= 00 to 15

For two-wire mode: selects one of 16 1 x 8 multiplexers.

For four-wire mode: selects two of 16 1 x 8 multiplexers.
Only even number multiplexers are allowed. Selecting
multiplexer 00 will also select same channel on next
multiplexer in sequence, in this case multiplexer 01.

<channel> ::= 0 to 7

0 to 7 for multiplexers
0 to 2 for interconnect relays

NOTE

The <module address> used here is not the VXibus defined Logical Address of the 1260 Series Master. It is unique to the 1260 Series and describes the switching module in relation to the Master. This address corresponds to the binary value of the switch setting of SW1 on the switching module PCB. Refer to the Installation Section of the 1260 Series VXI Switching Cards Manual for more information.

CLOSE Command

The CLOSE command is used to close a channel.

Example:

```
CL[OSE] 1.0012
```

This CLOSE command will close channel 2 of multiplexer 01 on the module at switch card module address 1.

OPEN Command

The OPEN command is used to open a channel.

Example:

```
OP[EN] 3.0107
```

This OPEN command will open channel 7 of multiplexer 10 on the module at switch card module address 3.

Note that channels remain closed until opened by an OPEN command, RESET command, VXI hard or soft reset, or power-off.

PDATAOUT Command

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

```
PD[ATAOUT] <module address> [;<module address>] [;<module address>]
```

The responses to the PDATAOUT command is as follows:

1260-38T Two-wire

```
<module address>. 1260-38A 1x128 2-WIRE SCANNER/MULTIPLEXER  
<module address> . <channel range>[,<channel range>] [,<channel range>]  
<module address>.END
```

1260-38T Four-Wire

```
<module address>. 1260-38B 1x64 4-WIRE SCANNER/MULTIPLEXER  
<module address> . <channel range>[,<channel range>] [,<channel range>]  
<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 ¹¹END¹ string of characters.

PSETUP Command

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

```
PS[ETUP] <module address>[ ;<module address>] [<module address>]
```

Where:

<module address> is the switch card address.

The responses to the PSETUP command for the 1260-38T Multiplexer/Scanner is as follows:

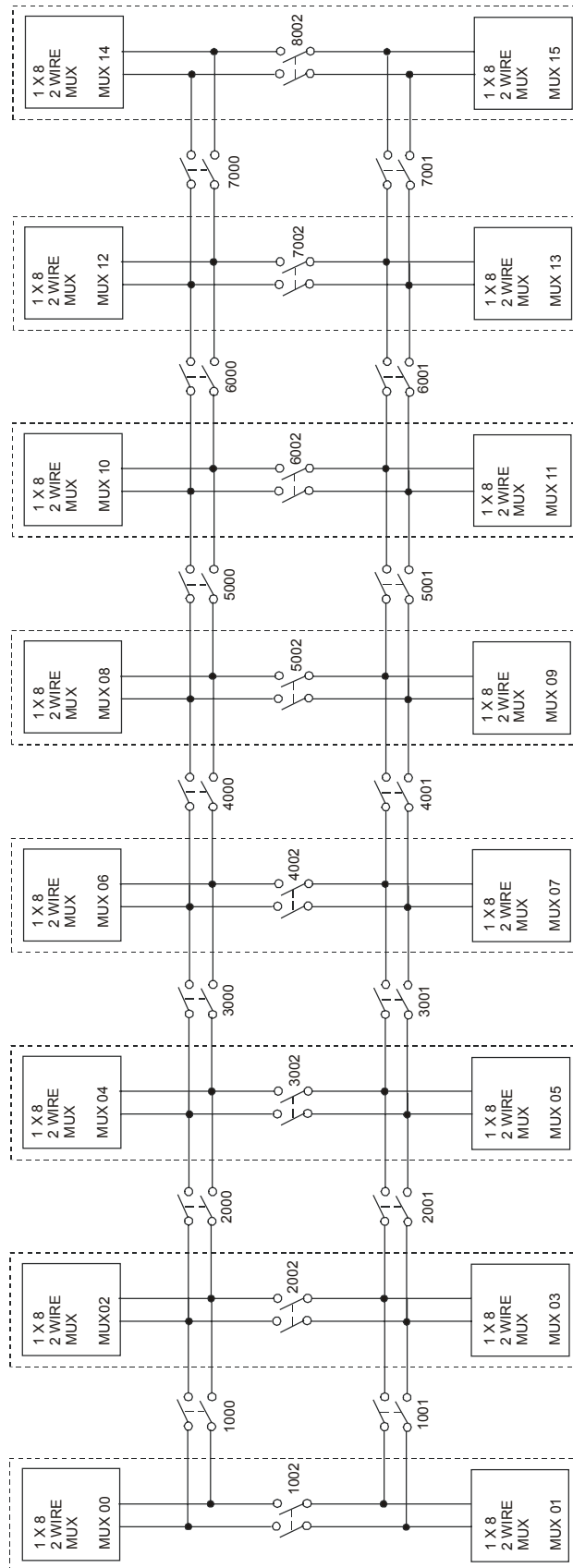
1260-38T Two-wire

```
<module address>. 1260-38A 1x128 2-WIRE SCANNER/MULTIPLEXER  
<module address> . BBM  
<module address>.END
```

1260-38T Four-Wire

```
<module address>. 1260-38B 1x64 4-WIRE SCANNER/MULTIPLEXER  
<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 following an A or B designating two or four-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" characters denotes no more information to report.



EIGHT PAIRS OF 1 X 8 MUXES.
 EACH PAIR CONFIGURABLE AS:
 ONE (1 X 8) 4 WIRE
 TWO (1 X 8) 2 WIRE
 ONE (1 X 16) 2 WIRE

MODULE IS CONFIGURABLE AS:
 ONE (1 X 64) 4 WIRE
 ONE (1 X 128) 2 WIRE

Figure 3-1, 1260-38T Module Configuration Block Diagram

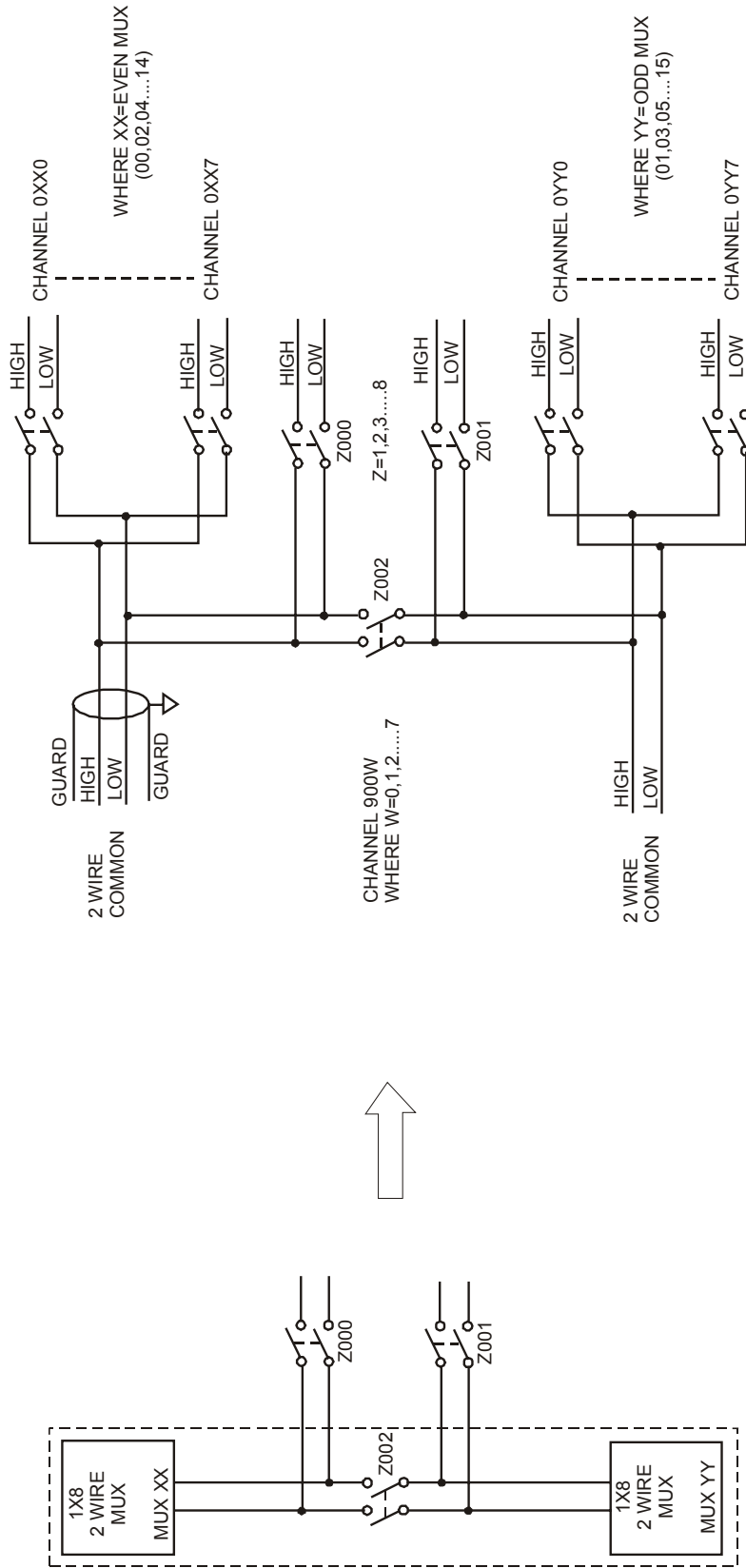


Figure 3-2, 1260-38T Multiplexer Configuration Block Diagram

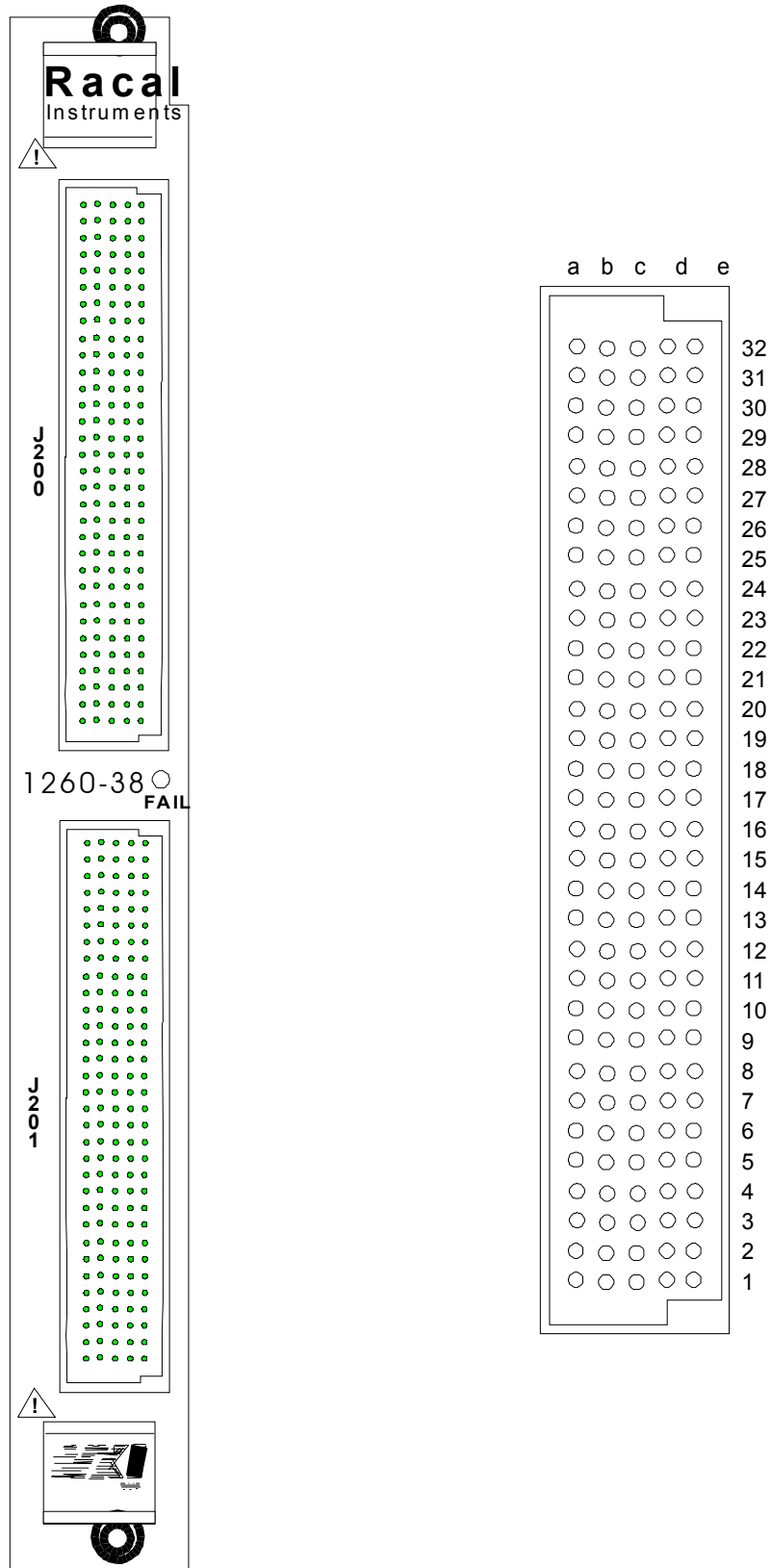


Figure 3-3, 1260-38T Pin Connections, Front View

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping

Multiplexer 00

Channel #	Connector Pin #	Connector / Cable # / Color
0000 Hi	J200P31A	P200, CABLE 1, white/black/orange/violet
0000 Lo	J200P32A	P200, CABLE 1, white/black/yellow/grey
0001 Hi	J200P31B	P200, CABLE 1, white/black/orange/grey
0001 Lo	J200P32B	P200, CABLE 1, white/black/green/blue
0002 Hi	J200P31D	P200, CABLE 1, white/black/yellow/blue
0002 Lo	J200P32D	P200, CABLE 1, white/black/green/grey
0003 Hi	J200P31E	P200, CABLE 1, white/black/yellow/violet
0003 Lo	J200P32E	P200, CABLE 1, white/black/blue/violet
0004 Hi	J200P29A	P200, CABLE 1, white/black/brown/violet
0004 Lo	J200P30A	P200, CABLE 1, white/black/red/violet
0005 Hi	J200P29B	P200, CABLE 1, white/black/brown/grey
0005 Lo	J200P30B	P200, CABLE 1, white/black/red/grey
0006 Hi	J200P29D	P200, CABLE 1, white/black/red/green
0006 Lo	J200P30D	P200, CABLE 1, white/black/orange/green
0007 Hi	J200P29E	P200, CABLE 1, white/black/red/blue
0007 Lo	J200P30E	P200, CABLE 1, white/black/orange/blue
COM00 Hi	J200P31C	P200, CABLE 1, white/black/yellow/green
COM00 Lo	J200P32C	P200, CABLE 1, white/black/green/violet
GUARD	J200P30C	P200, CABLE 1, white/black/orange/yellow
GUARD	J200P29C	P200, CABLE 1, white/black/red/yellow

Multiplexer 01

Channel #	Connector Pin #	Connector / Cable # Color
0010 Hi	J200P27A	P200, CABLE 1, white/green/violet
0010 Lo	J200P28A	P200, CABLE 1, white/black/brown/red
0011 Hi	J200P27B	P200, CABLE 1, white/green/grey
0011 Lo	J200P28B	P200, CABLE 1, white/black/brown/orange
0012 Hi	J200P27D	P200, CABLE 1, white/blue/grey
0012 Lo	J200P28D	P200, CABLE 1, white/black/brown/green
0013 Hi	J200P27E	P200, CABLE 1, white/violet/grey
0013 Lo	J200P28E	P200, CABLE 1, white/black/brown/blue
0014 Hi	J200P25A	P200, CABLE 1, white/orange/yellow
0014 Lo	J200P26A	P200, CABLE 1, white/yellow/green
0015 Hi	J200P25B	P200, CABLE 1, white/orange/green
0015 Lo	J200P26B	P200, CABLE 1, white/yellow/blue
0016 Hi	J200P25D	P200, CABLE 1, white/orange/violet
0016 Lo	J200P26D	P200, CABLE 1, white/yellow/grey
0017 Hi	J200P25E	P200, CABLE 1, white/orange/grey
0017 Lo	J200P26E	P200, CABLE 1, white/green/blue
COM01 Hi	J200P25C	P200, CABLE 1, white/orange/blue
COM01 Lo	J200P26C	P200, CABLE 1, white/yellow/violet
GUARD	J200P27C	P200, CABLE 1, white/blue/violet
GUARD	J200P28C	P200, CABLE 1, white/black/brown/yellow

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Multiplexer 02

Channel #	Connector Pin #	Connector / Cable # / Color
0020 Hi	J200P23A	P200, CABLE 1, white/brown/green
0020 Lo	J200P24A	P200, CABLE 1, white/red/yellow
0021 Hi	J200P23B	P200, CABLE 1, white/brown/blue
0021 Lo	J200P24B	P200, CABLE 1, white/red/green
0022 Hi	J200P23D	P200, CABLE 1, white/brown/grey
0022 Lo	J200P24D	P200, CABLE 1, white/red/violet
0023 Hi	J200P23E	P200, CABLE 1, white/red/orange
0023 Lo	J200P24E	P200, CABLE 1, white/red/grey
0024 Hi	J200P21A	P200, CABLE 1, white/black/red
0024 Lo	J200P22A	P200, CABLE 1, white/black/violet
0025 Hi	J200P21B	P200, CABLE 1, white/black/orange
0025 Lo	J200P22B	P200, CABLE 1, white/black/grey
0026 Hi	J200P21D	P200, CABLE 1, white/black/green
0026 Lo	J200P22D	P200, CABLE 1, white/brown/orange
0027 Hi	J200P21E	P200, CABLE 1, white/black/blue
0027 Lo	J200P22E	P200, CABLE 1, white/brown/yellow
COM02 Hi	J200P23C	P200, CABLE 1, white/brown/violet
COM02 Lo	J200P24C	P200, CABLE 1, white/red/blue
GUARD	J200P22C	P200, CABLE 1, white/brown/red
GUARD	J200P21C	P200, CABLE 1, white/black/yellow

Multiplexer 03

Channel #	Connector Pin #	Connector / Cable # / Color
0030 Hi	J200P19A	P200, CABLE 1, white/black
0030 Lo	J200P20A	P200, CABLE 1, white/green
0031 Hi	J200P19B	P200, CABLE 1, white/brown
0031 Lo	J200P20B	P200, CABLE 1, white/blue
-0032 Hi	J200P19D	P200, CABLE 1, white/orange
-0032 Lo	J200P20D	P200, CABLE 1, white/grey
0033 Hi	J200P19E	P200, CABLE 1, white/yellow
0033 Lo	J200P20E	P200, CABLE 1, white/black/brown
0034 Hi	J200P17A	P200, CABLE 1, black
0034 Lo	J200P18A	P200, CABLE 1, green
0035 Hi	J200P17B	P200, CABLE 1, brown
0035 Lo	J200P18B	P200, CABLE 1, blue
0036 Hi	J200P17D	P200, CABLE 1, orange
0036 Lo	J200P18D	P200, CABLE 1, grey
0037 Hi	J200P17E	P200, CABLE 1, yellow
0037 Lo	J200P18E	P200, CABLE 1, white
COM03 Hi	J200P17C	P200, CABLE 1, red
COM03 Lo	J200P18C	P200, CABLE 1, violet
GUARD	J200P19C	P200, CABLE 1, white/red
GUARD	J200P20C	P200, CABLE 1, white/violet

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Multiplexer 04

Channel #	Connector Pin #	Connector / Cable # / Color
0040 Hi	J200P15A	P200, CABLE 2, white/black/orange/violet
0040 Lo	J200P16A	P200, CABLE 2, white/black/yellow/grey
0041 Hi	J200P15B	P200, CABLE 2, white/black/orange/grey
0041 Lo	J200P16B	P200, CABLE 2, white/black/green/blue
0042 Hi	J200P15D	P200, CABLE 2, white/black/yellow/blue
0042 Lo	J200P16D	P200, CABLE 2, white/black/green/grey
0043 Hi	J200P15E	P200, CABLE 2, white/black/yellow/violet
0043 Lo	J200P16E	P200, CABLE 2, white/black/blue/violet
0044 Hi	J200P13A	P200, CABLE 2, white/black/brown/violet
0044 Lo	J200P14A	P200, CABLE 2, white/black/red/violet
0045 Hi	J200P13B	P200, CABLE 2, white/black/brown/grey
0045 Lo	J200P14B	P200, CABLE 2, white/black/red/grey
0046 Hi	J200P13D	P200, CABLE 2, white/black/red/green
0046 Lo	J200P14D	P200, CABLE 2, white/black/orangelgreen
0047 Hi	J200P13E	P200, CABLE 2, white/black/red/blue
0047 Lo	J200P14E	P200, CABLE 2, white/black/orange/blue
COM04 Hi	J200P15C	P200, CABLE 2, white/black/yellow/green
COM04 Lo	J200P16C	P200, CABLE 2, white/black/green/violet
GUARD	J200P14C	P200, CABLE 2, white/black/orange/yellow
GUARD	J200P13C	P200, CABLE 2, white/black/red/yellow

Multiplexer 05

Channel #	Connector Pin #	Connector / Cable # / Color
0050 Hi	J200P11A	P200, CABLE 2, white/green/violet
0050 Lo	J200P12A	P200, CABLE 2, white/black/brown/red
0051 Hi	J200P11B	P200, CABLE 2, white/green/grey
0051 Lo	J200P12B	P200, CABLE 2, white/black/brown/orange
0052 Hi	J200P11D	P200, CABLE 2, white/blue/grey
0052 Lo	J200P12D	P200, CABLE 2, white/black/brown/green
0053 Hi	J200P11E	P200, CABLE 2, white/violet/grey
0053 Lo	J200P12E	P200, CABLE 2, white/black/brown/blue
0054 Hi	J200P9A	P200, CABLE 2, white/orange/yellow
0054 Lo	J200P10A	P200, CABLE 2, white/yellow/green
0055 Hi	J200P9B	P200, CABLE 2, white/orange/green
0055 Lo	J200P10B	P200, CABLE 2, white/yellow/blue
0056 Hi	J200P9D	P200, CABLE 2, white/orange/violet
0056 Lo	J200P10D	P200, CABLE 2, white/yellow/grey
0057 Hi	J200P9E	P200, CABLE 2, white/orange/grey
0057 Lo	J200P10E	P200, CABLE 2, white/green/blue
COM05 Hi	J200P9C	P200, CABLE 2, white/orange/blue
COM05 Lo	J200P10C	P200, CABLE 2, white/yellow/violet
GUARD	J200P11C	P200, CABLE 2, white/blue/violet
GUARD	J200P12C	P200, CABLE 2, white/black/brown/yellow

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Multiplexer 06

Channel #	Connector Pin #	Connector / Cable # / Color
0060 Hi	J200P7A	P200, CABLE 2, white/brown/green
0060 Lo	J200P8A	P200, CABLE 2, white/red/yellow
0061 Hi	J200P7B	P200, CABLE 2, white/brown/blue
0061 Lo	J200P8B	P200, CABLE 2, white/red/green
0062 Hi	J200P7D	P200, CABLE 2, white/brown/grey
0062 Lo	J200P8D	P200, CABLE 2, white/red/violet
0063 Hi	J200P7E	P200, CABLE 2, white/red/orange
0063 Lo	J200P8E	P200, CABLE 2, white/red/grey
0064 Hi	J200P5A	P200, CABLE 2, white/black/red
0064 Lo	J200P6A	P200, CABLE 2, white/black/violet
0065 Hi	J200P5B	P200, CABLE 2, white/black/orange
0065 Lo	J200P6B	P200, CABLE 2, white/black/grey
0066 Hi	J200P5D	P200, CABLE 2, white/black/green
0066 Lo	J200P6D	P200, CABLE 2, white/brown/orange
0067 Hi	J200P5E	P200, CABLE 2, white/black/blue
0067 Lo	J200P6E	P200, CABLE 2, white/brown/yellow
COM06 Hi	J200P7C	P200, CABLE 2, white/brown/violet
COM06 Lo	J200P8C	P200, CABLE 2, white/red/blue
GUARD	J200P6C	P200, CABLE 2, white/brown/red
GUARD	J200P5C	P200, CABLE 2, white/black/yellow

Multiplexer 07

Channel #	Connector Pin #	Connector / Cable # / Color
0070 Hi	J200P3A	P200, CABLE 2, white/black
0070 Lo	J200P4A	P200, CABLE 2, white/green
0071 Hi	J200P3B	P200, CABLE 2, white/brown
0071 Lo	J200P4B	P200, CABLE 2, white/blue
0072 Hi	J200P3D	P200, CABLE 2, white/orange
0072 Lo	J200P4D	P200, CABLE 2, white/grey
0073 Hi	J200P3E	P200, CABLE 2, white/yellow
0073 Lo	J200P4E	P200, CABLE 2, white/black/brown
0074 Hi	J200P1A	P200, CABLE 2, black
0074 Lo	J200P2A	P200, CABLE 2, green
0075 Hi	J200P1B	P200, CABLE 2, brown
0075 Lo	J200P2B	P200, CABLE 2, blue
0076 Hi	J200P1D	P200, CABLE 2, orange
0076 Lo	J200P2D	P200, CABLE 2, grey
0077 Hi	J200P1E	P200, CABLE 2, yellow
0077 Lo	J200P2E	P200, CABLE 2, white
COM07 Hi	J200P1C	P200, CABLE 2, red
COM07 Lo	J200P2C	P200, CABLE 2, violet
GUARD	J200P3C	P200, CABLE 2, white/red
GUARD	J200P4C	P200, CABLE 2, white/violet

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Multiplexer 08

Channel #	Connector Pin #	Connector / Cable # / Color
0080 Hi	J201P31A	P201, CABLE 1, white/black/orange/violet
0080 Lo	J201P32A	P201, CABLE 1, white/black/yellow/grey
0081 Hi	J201P31B	P201, CABLE 1, white/black/orange/grey
0081 Lo	J201P32B	P201, CABLE 1, white/black/green/blue
0082 Hi	J201P31D	P201, CABLE 1, white/black/yellow/blue
0082 Lo	J201P32D	P201, CABLE 1, white/black/green/grey
0083 Hi	J201P31E	P201, CABLE 1, white/black/yellow/violet
0083 Lo	J201P32E	P201, CABLE 1, white/black/blue/violet
0084 Hi	J201P29A	P201, CABLE 1, white/black/brown/violet
0084 Lo	J201P30A	P201, CABLE 1, white/black/red/violet
0085 Hi	J201P29B	P201, CABLE 1, white/black/brown/grey
0085 Lo	J201P30B	P201, CABLE 1, white/black/red/grey
0086 Hi	J201P29D	P201, CABLE 1, white/black/red/green
0086 Lo	J201P30D	P201, CABLE 1, white/black/orange/green
0087 Hi	J201P29E	P201, CABLE 1, white/black/red/blue
0087 Lo	J201P30E	P201, CABLE 1, white/black/orange/blue
COM08 Hi	J201P31C	P201, CABLE 1, white/black/yellow/green
COM08 Lo	J201P32C	P201, CABLE 1, white/black/green/violet
GUARD	J201P30C	P201, CABLE 1, white/black/orange/yellow
GUARD	J201P29C	P201, CABLE 1, white/black/red/yellow

Multiplexer 09

Channel #	Connector Pin #	Connector / Cable # Color
0090 Hi	J201P27A	P201, CABLE 1, white/green/violet
0090 Lo	J201P28A	P201, CABLE 1, white/black/brown/red
0091 Hi	J201P27B	P201, CABLE 1, white/green/grey
0091 Lo	J201P28B	P201, CABLE 1, white/black/brown/orange
0092 Hi	J201P27D	P201, CABLE 1, white/blue/grey
0092 Lo	J201P28D	P201, CABLE 1, white/black/brown/green
0093 Hi	J201P27E	P201, CABLE 1, white/violet/grey
0093 Lo	J201P28E	P201, CABLE 1, white/black/brown/blue
0094 Hi	J201P25A	P201, CABLE 1, white/orange/yellow
0094 Lo	J201P26A	P201, CABLE 1, white/yellow/green
0095 Hi	J201P25B	P201, CABLE 1, white/orange/green
0095 Lo	J201P26B	P201, CABLE 1, white/yellow/blue
0096 Hi	J201P25D	P201, CABLE 1, white/orange/violet
0096 Lo	J201P26D	P201, CABLE 1, white/yellow/grey
0097 Hi	J201P25E	P201, CABLE 1, white/orange/grey
0097 Lo	J201P26E	P201, CABLE 1, white/green/blue
COM09 Hi	J201P25C	P201, CABLE 1, white/orange/blue
COM09 Lo	J201P26C	P201, CABLE 1, white/yellow/violet
GUARD	J201P27C	P201, CABLE 1, white/blue/violet
GUARD	J201P28C	P201, CABLE 1, white/black/brown/yellow

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Multiplexer 10

Channel #	Connector Pin #	Connector / Cable # / Color
0100 Hi	J201P23A	P201, CABLE 1, white/brown/green
0100 Lo	J201P24A	P201, CABLE 1, white/red/yellow
0101 Hi	J201P23B	P201, CABLE 1, white/brown/blue
0101 Lo	J201P24B	P201, CABLE 1, white/red/green
0102 Hi	J201P23D	P201, CABLE 1, white/brown/grey
0102 Lo	J201P24D	P201, CABLE 1, white/red/violet
0103 Hi	J201P23E	P201, CABLE 1, white/red/orange
0103 Lo	J201P24E	P201, CABLE 1, white/red/grey
0104 Hi	J201P21A	P201, CABLE 1, white/black/red
0104 Lo	J201P22A	P201, CABLE 1, white/black/violet
0105 Hi	J201P21B	P201, CABLE 1, white/black/orange
0105 Lo	J201P22B	P201, CABLE 1, white/black/grey
0106 Hi	J201P21D	P201, CABLE 1, white/black/green
0106 Lo	J201P22D	P201, CABLE 1, white/brown/orange
0107 Hi	J201P21E	P201, CABLE 1, white/black/blue
0107 Lo	J201P22E	P201, CABLE 1, white/brown/yellow
COM10 Hi	J201P23C	P201, CABLE 1, white/brown/violet
COM10 Lo	J201P24C	P201, CABLE 1, white/red/blue
GUARD	J201P22C	P201, CABLE 1, white/brown/red
GUARD	J201P21C	P201, CABLE 1, white/black/yellow

Multiplexer 11

Channel #	Connector Pin #	Connector / Cable # / Color
0110 Hi	J201P19A	P201, CABLE 1, white/black
0110 Lo	J201P20A	P201, CABLE 1, white/green
0111 Hi	J201P19B	P201, CABLE 1, white/brown
0111 Lo	J201P20B	P201, CABLE 1, white/blue
0112 Hi	J201P19D	P201, CABLE 1, white/orange
0112 Lo	J201P20D	P201, CABLE 1, white/grey
0113 Hi	J201P19E	P201, CABLE 1, white/yellow
0113 Lo	J201P20E	P201, CABLE 1, white/black/brown
0114 Hi	J201P17A	P201, CABLE 1, black
0114 Lo	J201P18A	P201, CABLE 1, green
0115 Hi	J201P17B	P201, CABLE 1, brown
0115 Lo	J201P18B	P201, CABLE 1, blue
0116 Hi	J201P17D	P201, CABLE 1, orange
0116 Lo	J201P18D	P201, CABLE 1, grey
0117 Hi	J201P17E	P201, CABLE 1, yellow
0117 Lo	J201P18E	P201, CABLE 1, white
COM11Hi	J201P17C	P201, CABLE 1, red
COM11 Lo	J201P18C	P201, CABLE 1, violet
GUARD	J201P19C	P201, CABLE 1, white/red
GUARD	J201P20C	P201, CABLE 1, white/violet

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Multiplexer 12

Channel #	Connector Pin #	Connector / Cable # / Color
0120 Hi	J201P15A	P201, CABLE 2, white/black/orange/violet
0120 Lo	J201P16A	P201, CABLE 2, white/black/yellow/grey
0121 Hi	J201P15B	P201, CABLE 2, white/black/orange/grey
0121 Lo	J201P16B	P201, CABLE 2, white/black/green/blue
0122 Hi	J201P15D	P201, CABLE 2, white/black/yellow/blue
0122 Lo	J201P16D	P201, CABLE 2, white/black/green/grey
0123 Hi	J201P15E	P201, CABLE 2, white/black/yellow/violet
0123 Lo	J201P16E	P201, CABLE 2, white/black/blue/violet
0124 Hi	J201P13A	P201, CABLE 2, white/black/brown/violet
0124 Lo	J201P14A	P201, CABLE 2, white/black/red/violet
0125 Hi	J201P13B	P201, CABLE 2, white/black/brown/grey
0125 Lo	J201P14B	P201, CABLE 2, white/black/red/grey
0126 Hi	J201P13D	P201, CABLE 2, white/black/red/green
0126 Lo	J201P14D	P201, CABLE 2, white/black/orange/green
0127 Hi	J201P13E	P201, CABLE 2, white/black/red/blue
0127 Lo	J201P14E	P201, CABLE 2, white/black/orange/blue
COM12 Hi	J201P15C	P201, CABLE 2, white/black/yellow/green
COM12 Lo	J201P16C	P201, CABLE 2, white/black/green/violet
GUARD	J201P14C	P201, CABLE 2, white/black/orange/yellow
GUARD	J201P13C	P201, CABLE 2, white/black/red/yellow

Multiplexer 13

Channel #	Connector Pin #	Connector / Cable # / Color
0130 Hi	J201P11A	P201, CABLE 2, white/green/violet
0130 Lo	J201P12A	P201, CABLE 2, white/black/brown/red
0131 Hi	J201P11B	P201, CABLE 2, white/green/grey
0131 Lo	J201 P12B	P201, CABLE 2, white/black/brown/orange
0132 Hi	J201P11D	P201, CABLE 2, white/blue/grey
0132 Lo	J201P12D	P201, CABLE 2, white/black/brown/green
0133 Hi	J201P11E	P201, CABLE 2, white/violet/grey
0133 Lo	J201P12E	P201, CABLE 2, white/black/brown/blue
0134 Hi	J201P9A	P201, CABLE 2, white/orange/yellow
0134 Lo	J201P10A	P201, CABLE 2, white/yellow/green
0135 Hi	J201P9B	P201, CABLE 2, white/orange/green
0135 Lo	J201P10B	P201, CABLE 2, white/yellow/blue
0136 Hi	J201P9D	P201, CABLE 2, white/orange/violet
0136 Lo	J201P10D	P201, CABLE 2, white/yellow/grey
0137 Hi	J201P9E	P201, CABLE 2, white/orange/grey
0137 Lo	J201P10E	P201, CABLE 2, white/green/blue
COM13 Hi	J201P9C	P201, CABLE 2, white/orange/blue
COM13 Lo	J201P10C	P201, CABLE 2, white/yellow/violet
GUARD	J201P11C	P201, CABLE 2, white/blue/violet
GUARD	J201P12C	P201, CABLE 2, white/black/brown/yellow

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Multiplexer 14

Channel #	Connector Pin #	Connector / Cable # / Color
0140 Hi	J201P7A	P201, CABLE 2, white/brown/green
0140 Lo	J201P8A	P201, CABLE 2, white/red/yellow
0141 Hi	J201P7B	P201, CABLE 2, white/brown/blue
0141 Lo	J201P8B	P201, CABLE 2, white/red/green
0142 Hi	J201P7D	P201, CABLE 2, white/brown/grey
0142 Lo	J201P8D	P201, CABLE 2, white/red/violet
0143 Hi	J201P7E	P201, CABLE 2, white/red/orange
0143 Lo	J201P8E	P201, CABLE 2, white/red/grey
0144 Hi	J201P5A	P201, CABLE 2, white/black/red
0144Lo	J201P6A	P201, CABLE 2, white/black/violet
0145 Hi	J201P5B	P201, CABLE 2, white/black/orange
0145 Lo	J201P6B	P201, CABLE 2, white/black/grey
0146 Hi	J201PSD	P201, CABLE 2, white/black/green
0146 Lo	J201P6D	P201, CABLE 2, white/brown/orange
0147 Hi	J201P5E	P201, CABLE 2, white/black/blue
0147 Lo	J201P6E	P201, CABLE 2, white/brown/yellow
COM14 Hi	J201P7C	P201, CABLE 2, white/brown/violet
COM 14 Lo	J201P8C	P201, CABLE 2, white/red/blue
GUARD	J201P6C	P201, CABLE 2, white/brown/red
GUARD	J201P5C	P201, CABLE 2, white/black/yellow

Multiplexer 15

Channel #	Connector Pin #	Connector / Cable # / Color
0150 Hi	J201P3A	P201, CABLE 2, white/black
0150 Lo	J201P4A	P201, CABLE 2, white/green
0151 Hi	J201P3B	P201, CABLE 2, white/brown
0151 Lo	J201P4B	P201, CABLE 2, white/blue
0152 Hi	J201P3D	P201, CABLE 2, white/orange
0152 Lo	J201P4D	P201, CABLE 2, white/grey
0153 Hi	J201P3E	P201, CABLE 2, white/yellow
0153 Lo	J201P4E	P201, CABLE 2, white/black/brown
0154 Hi	J201P1A	P201, CABLE2, black
0154 Lo	J201P2A	P201, CABLE 2, green
0155 Hi	J201P1B	P201, CABLE2, brown
0155 Lo	J201P2B	P201, CABLE2, blue
0156 Hi	J201P1D	P201, CABLE2, orange
0156 Lo	J201P2D	P201, CABLE2, grey
0157 Hi	J201P1E	P201, CABLE2, yellow
0157 Lo	J201P2E	P201, CABLE 2, white
COM15Hi	J201P1C	P201, CABLE2, red
COM15 Lo	J201P2C	P201, CABLE 2, violet
GUARD	J201P3C	P201, CABLE 2, white/red
GUARD	J201P4C	P201, CABLE 2, white/violet

Table 3-1, 1260-38T Channel Number/Connector Pin/Cable Mapping Continued

Interconnecting Channels

Channel #	Path
1000	COM 00 TO COM 02
1001	COM 01 TO COM 03
1002	COM 00 TO COM 01
2000	COM 02 TO COM 04
2001	COM 03 TO COM 05
2002	COM 02 TO COM 03
3000	COM 04 TO COM 06
3001	COM 05 TO COM 07
3002	COM 04 TO COM 05
4000	COM 06 TO COM 08
4001	COM 07 TO COM 09
4002	COM 06 TO COM 07
5000	COM 08 TO COM 10
5001	COM 09 TO COM 11
5002	COM 08 TO COM 09
6000	COM 10 TO COM 12
6001	COM 11 TO COM 13
6002	COM 10 TO COM 11
7000	COM 12 TO COM 14
7001	COM 13 TO COM 15
7002	COM 12 TO COM 13
8000	COM 14 TO COM 15

Chapter 4

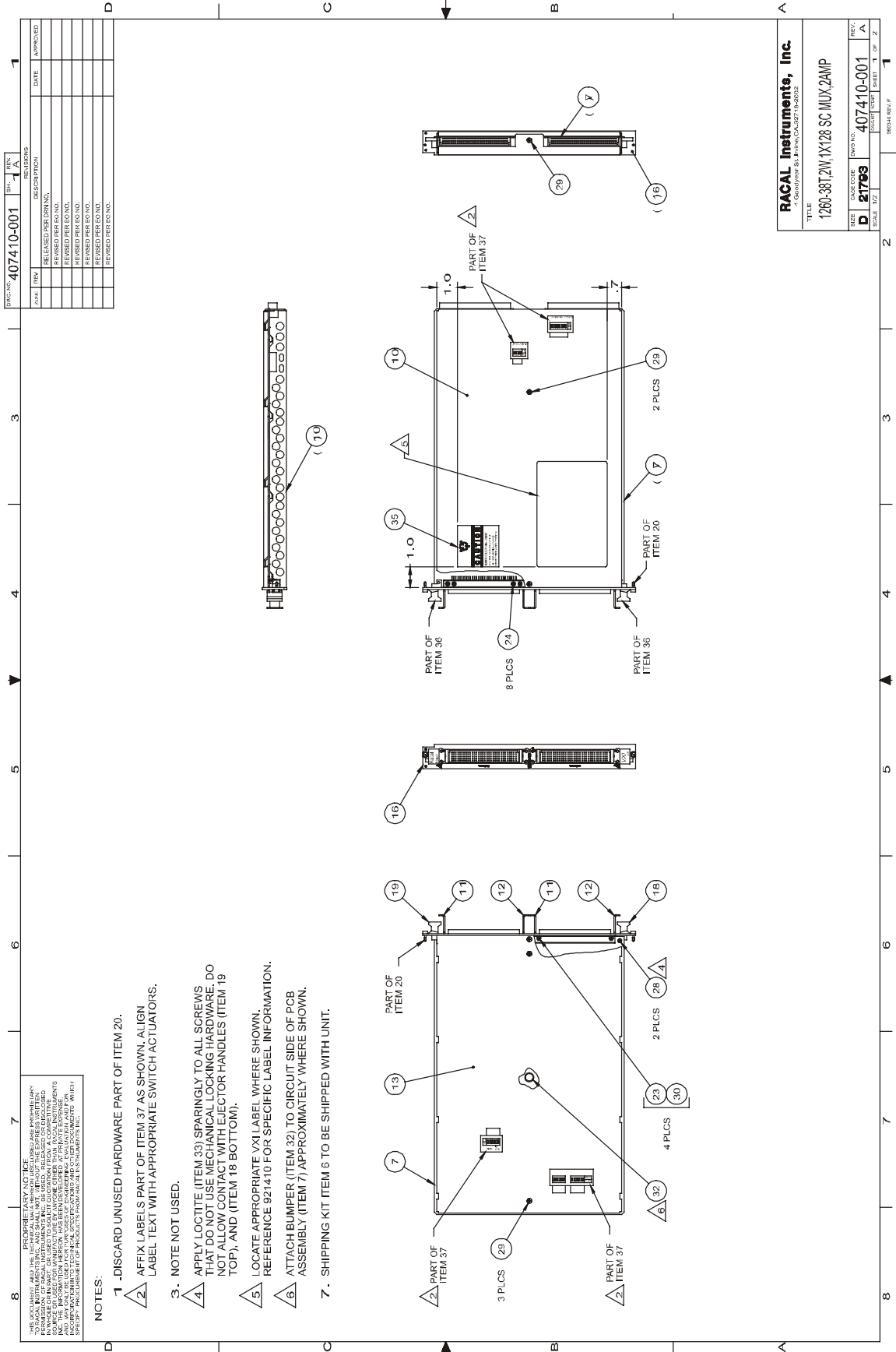
DRAWINGS

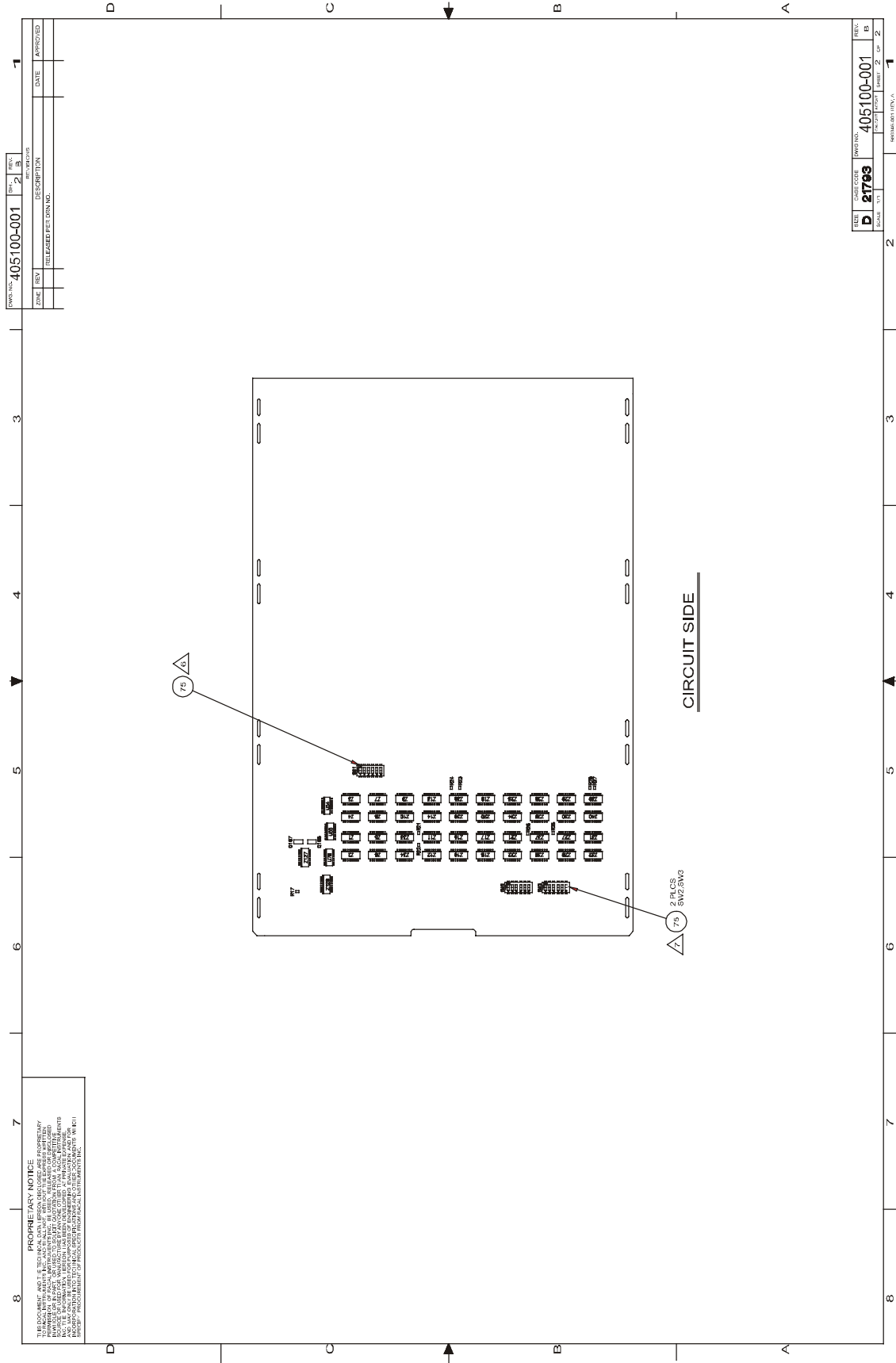
407410-001	Final Assembly, 1260-38T	4-3
405100-001	PCB Assembly, 1260-38T	4-4
435100-001	Schematic, 1260-38T	4-6

Front Panel Connector Accessories

407407	160-Pin Connector Kit with backshell and pins	4-29
407408	160-Pin Cable Assy, 6ft., 24GA	4-30
407409	160-Pin Cable Assy, 12ft., 24GA	4-31

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1. CAPACITOR VALUES ARE IN MICROFARADS. 50V. +1-20% UNLESS OTHERWISE SPECIFIED.
2. RESISTOR VALUES ARE IN OHMS. 1/16W. +1-5% UNLESS OTHERWISE SPECIFIED.
3. RESISTOR NETWORK VALUES ARE IN OHMS. +1-2%.
4. PARTS INDICATED ARE NOT INSTALLED.
5. RELAYS K1 -K3, K133-135, 137-139, K141-K143, K145-K147, M49-M51, K153-K155, K157 ARE RACAL INSTRUMENTS PIN 310255.

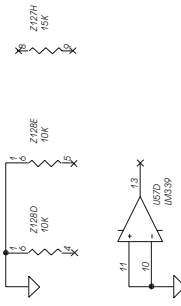


CAD CURRENT REV. LTR
FOR SHEETS 1 THRU 23.
REVISION A.

CAD FILENAMES

- 132 SCH
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- 134 SCH
- 135 SCH
- 136 SCH
- 137 SCH
- 138 SCH
- 139 SCH
- 140 SCH
- 141 SCH
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DRAWN WITH ORCAD 4.10



HIGHEST REFDES
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U92
U93
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U98
U99
U100

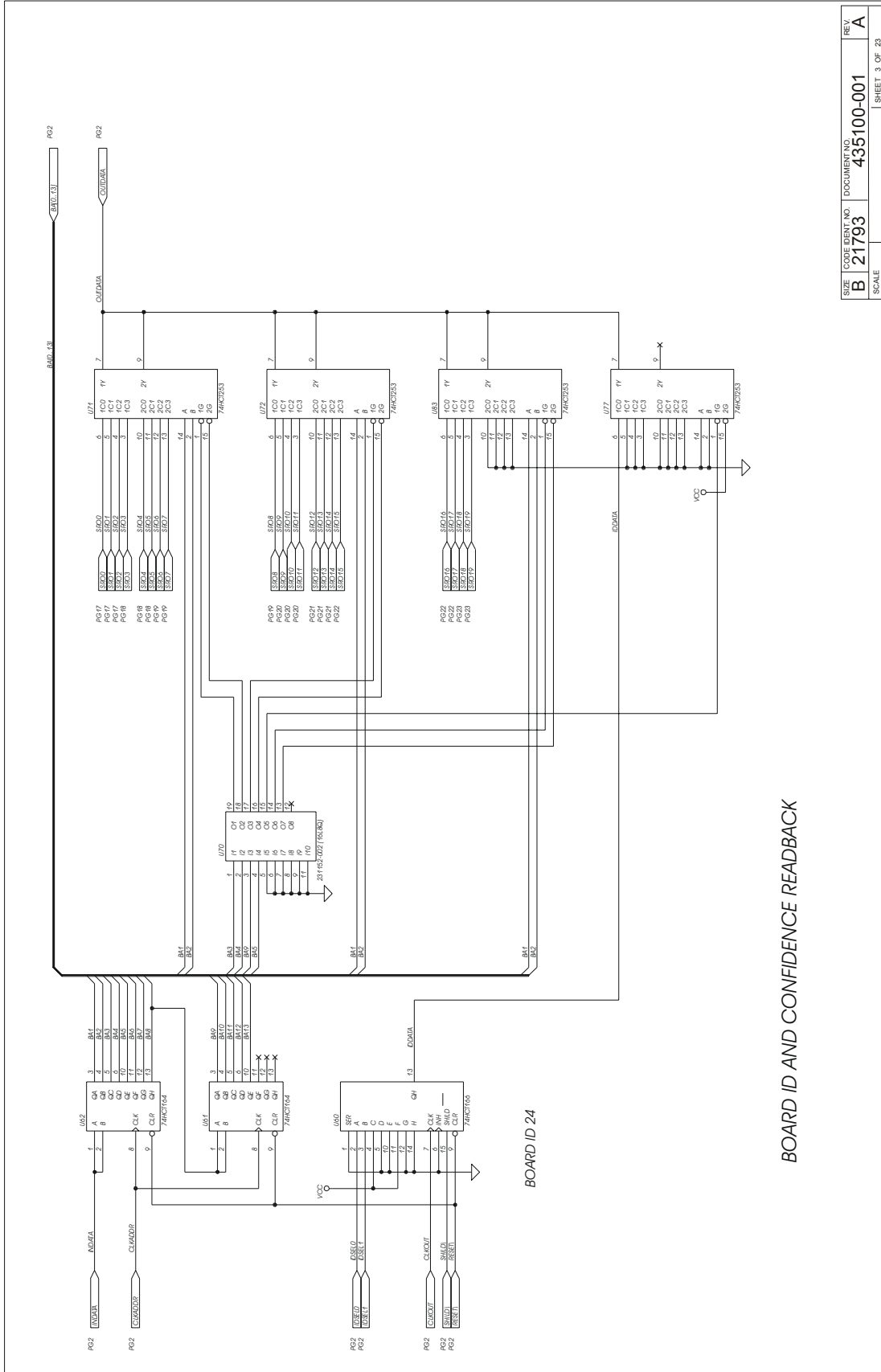
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U82	74HC299	20		10
U79, U80, U81	74HC240	20		10
U79	74HC240	20		10
U80	74HC240	20		10
U81	74HC240	20		10
U73, U74	264532	16		8
U71, U72, U73, U74	74HC00	16		8
U71	74HC00	16		8
U72	74HC00	16		8
U73	74HC00	16		8
U74	74HC00	16		8
U65, U62	74ACT164	14		7
U67	041554	3		27
U68	041554	3		27
U64, U55, U78	74ACT139	16		8
U65	74ACT139	16		8
U66	74ACT139	16		8
U67	74ACT139	16		8
U68	74ACT139	16		8
U69	74ACT139	16		8
U70	74ACT139	16		8
U71	74ACT139	16		8
U72	74ACT139	16		8
U73	74ACT139	16		8
U74	74ACT139	16		8
U75	74ACT139	16		8
U76	74ACT139	16		8
U77	74ACT139	16		8
U78	74ACT139	16		8
U79	74ACT139	16		8
U80	74ACT139	16		8
U81	74ACT139	16		8
U82	74ACT139	16		8
U83	74ACT139	16		8
U84	74ACT139	16		8
U85	74ACT139	16		8
U86	74ACT139	16		8
U87	74ACT139	16		8
U88	74ACT139	16		8
U89	74ACT139	16		8
U90	74ACT139	16		8
U91	74ACT139	16		8
U92	74ACT139	16		8
U93	74ACT139	16		8
U94	74ACT139	16		8
U95	74ACT139	16		8
U96	74ACT139	16		8
U97	74ACT139	16		8
U98	74ACT139	16		8
U99	74ACT139	16		8
U100	74ACT139	16		8

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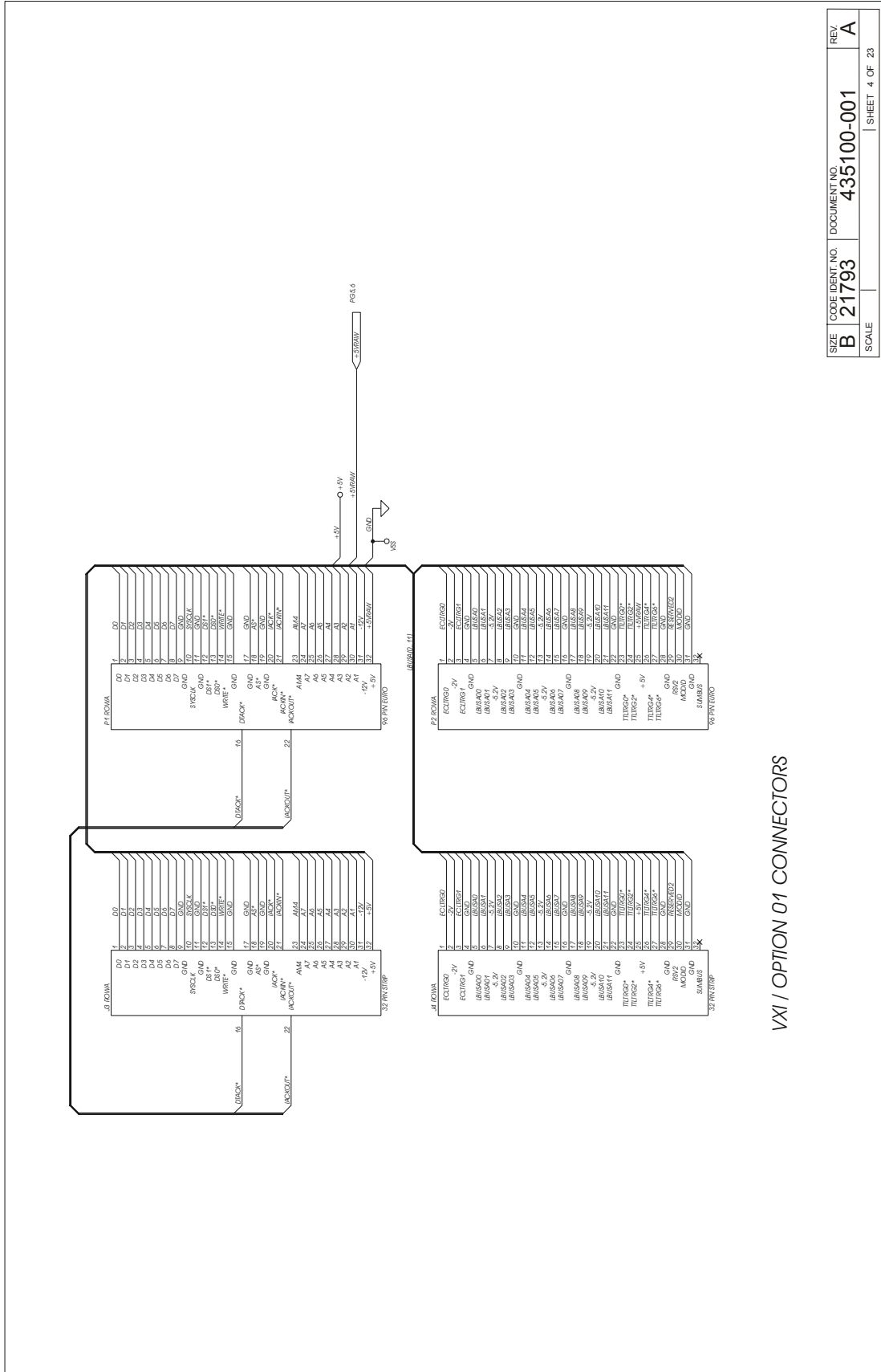
TITLE
SCHEM., 1260-38T

SIZE: D
DRAWING NO.: 21793
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SCALE: A
SHEET 1 OF 23



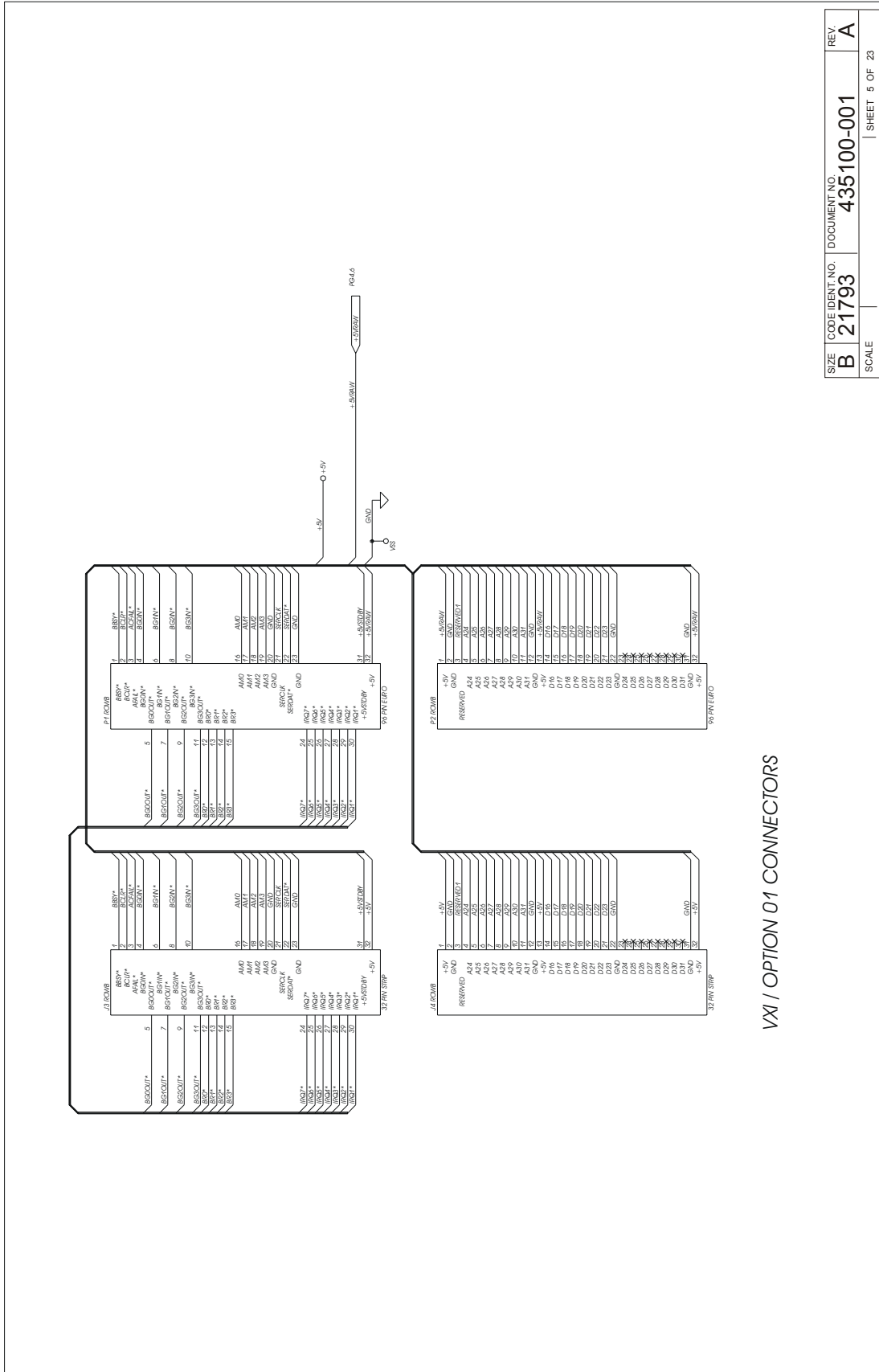
BOARD ID AND CONFIDENCE READBACK

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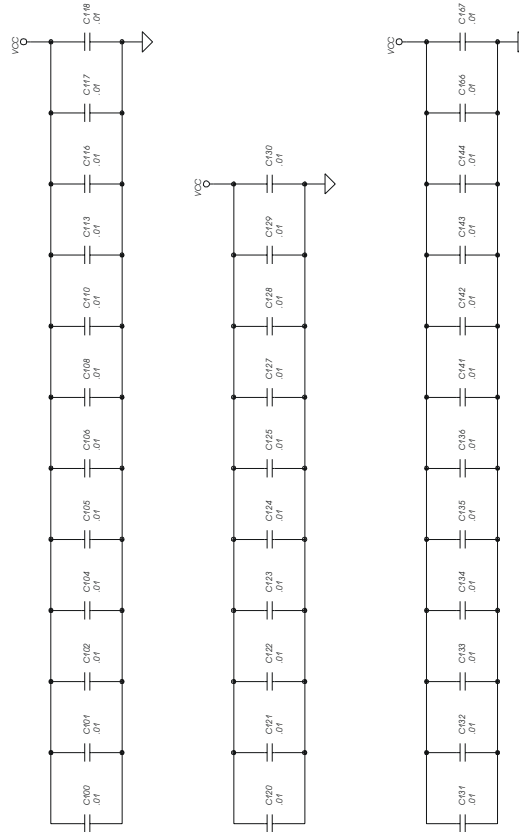
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VXI / OPTION 01 CONNECTORS



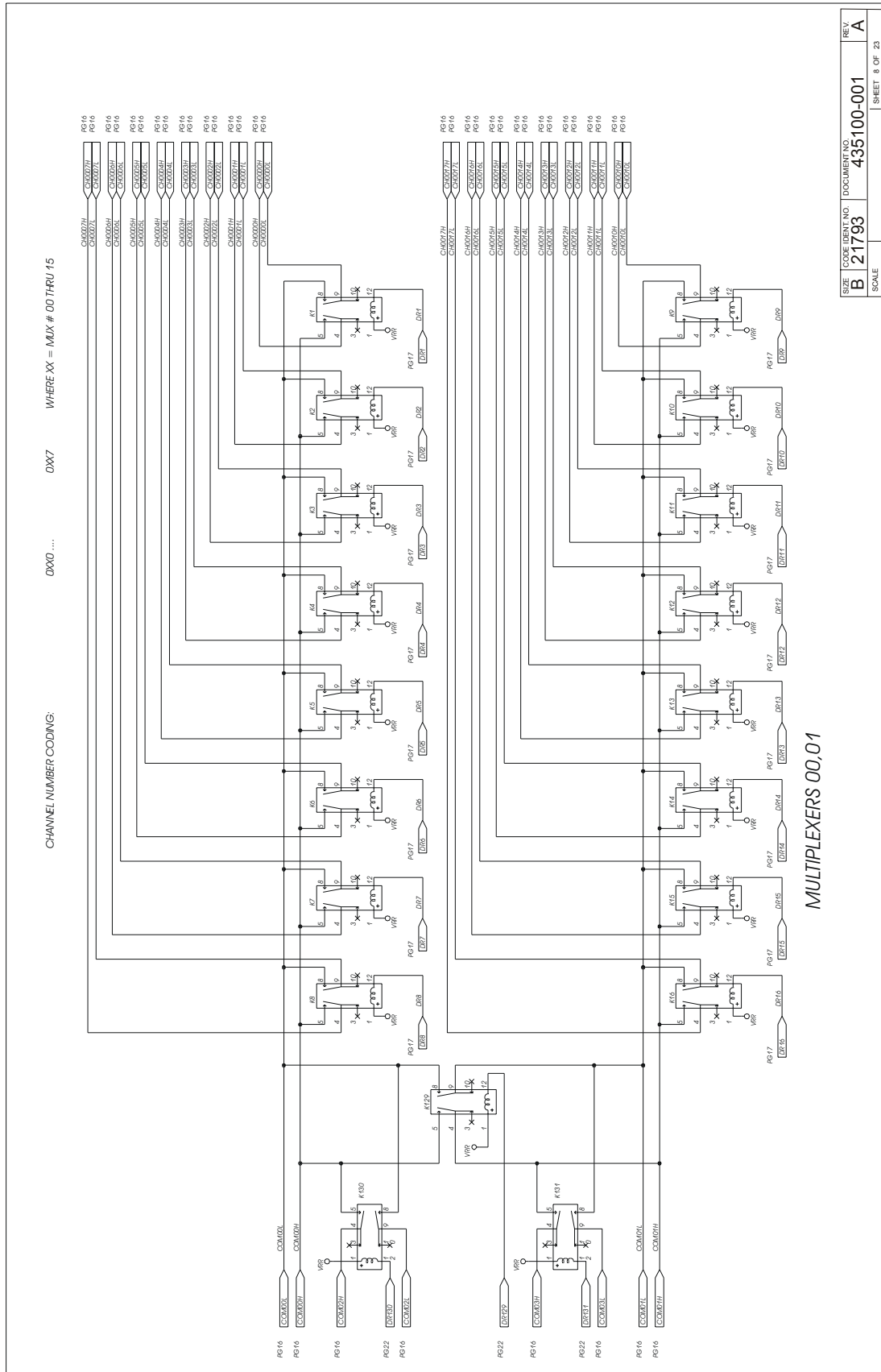
VXI / OPTION 01 CONNECTORS

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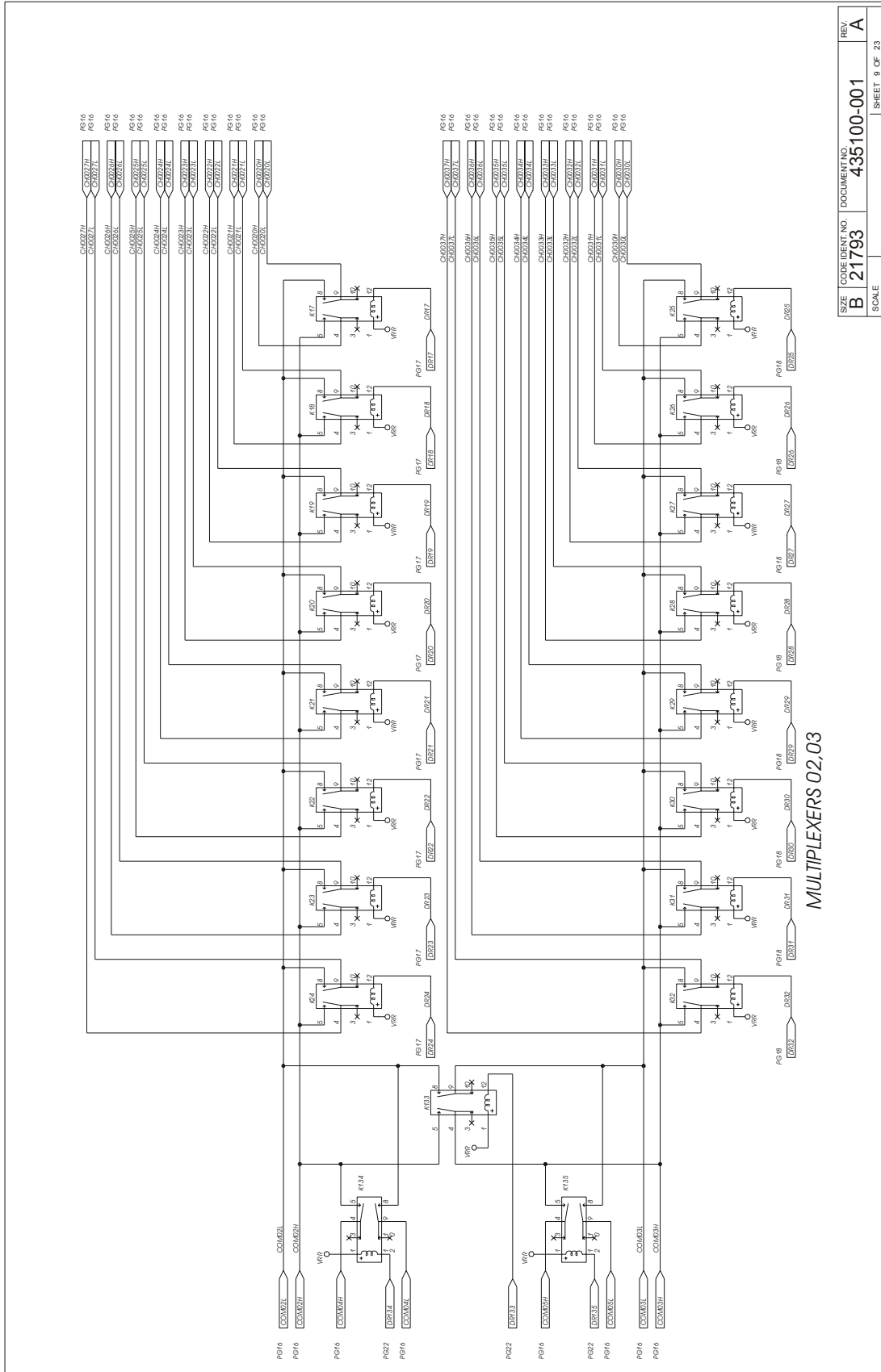


DECOUPLING CAPACITORS

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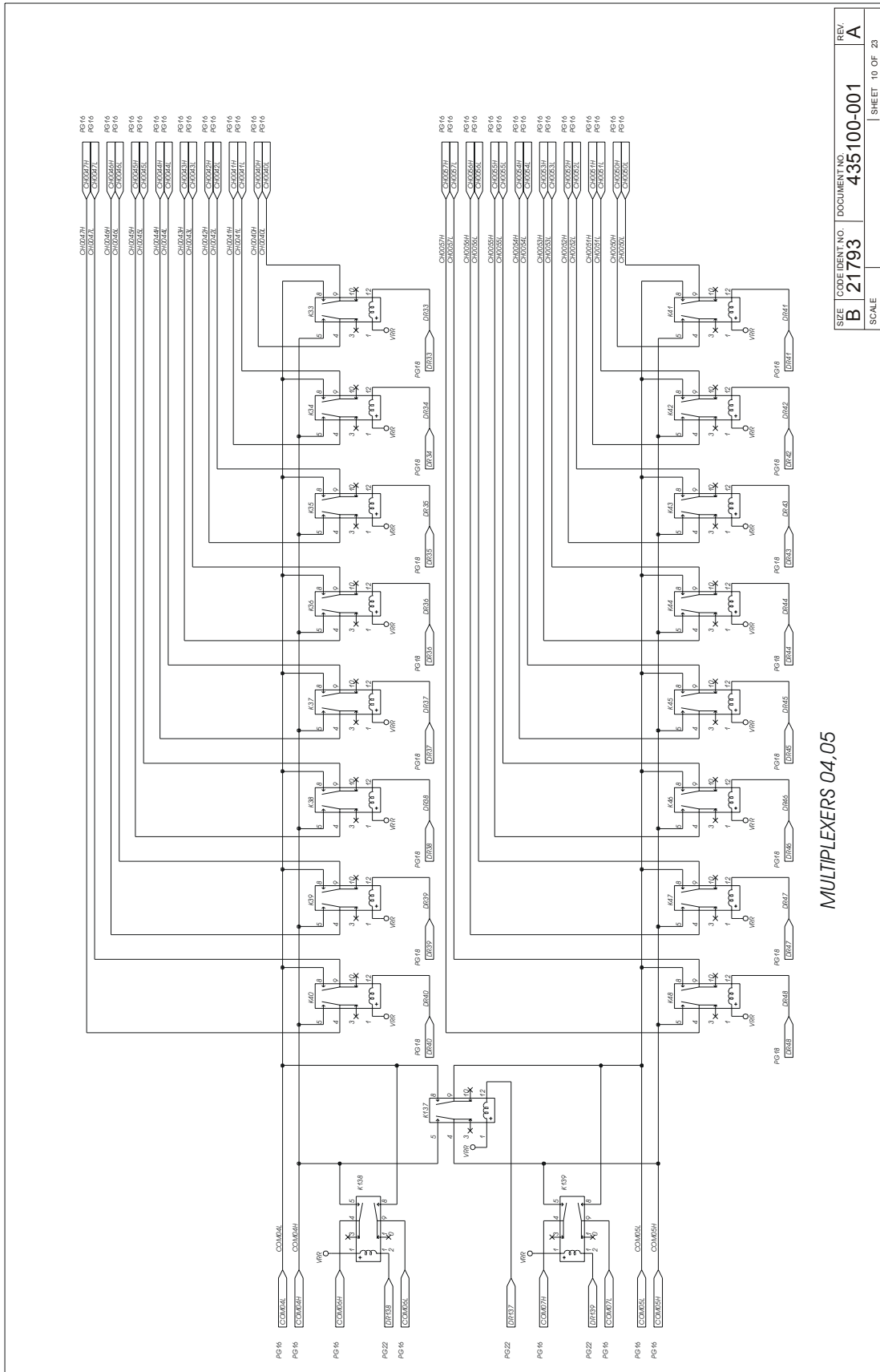


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SCALE			SHEET 8 OF 23



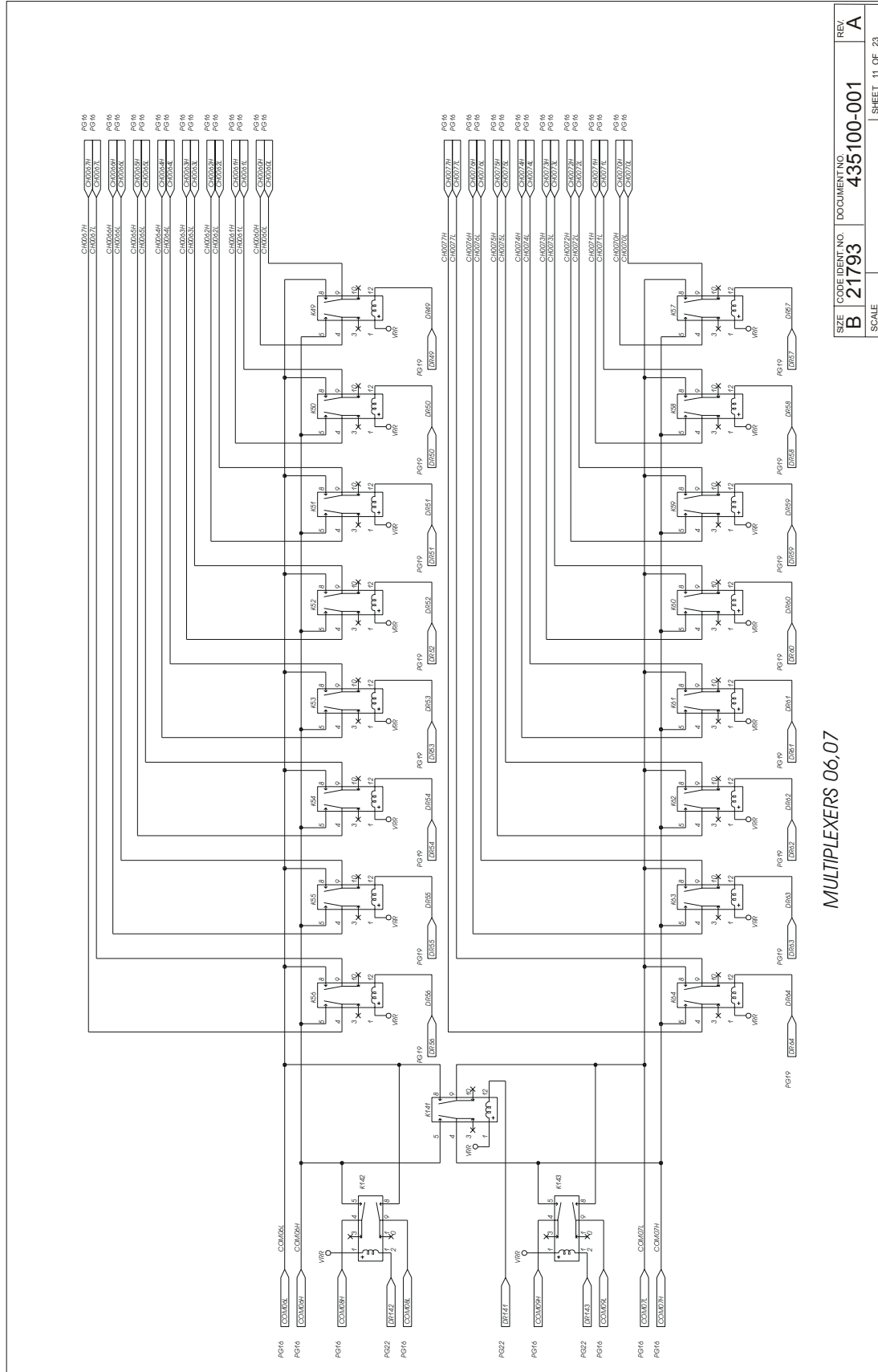
MULTIPLEXERS 02,03

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SCALE			SHEET 9 OF 23



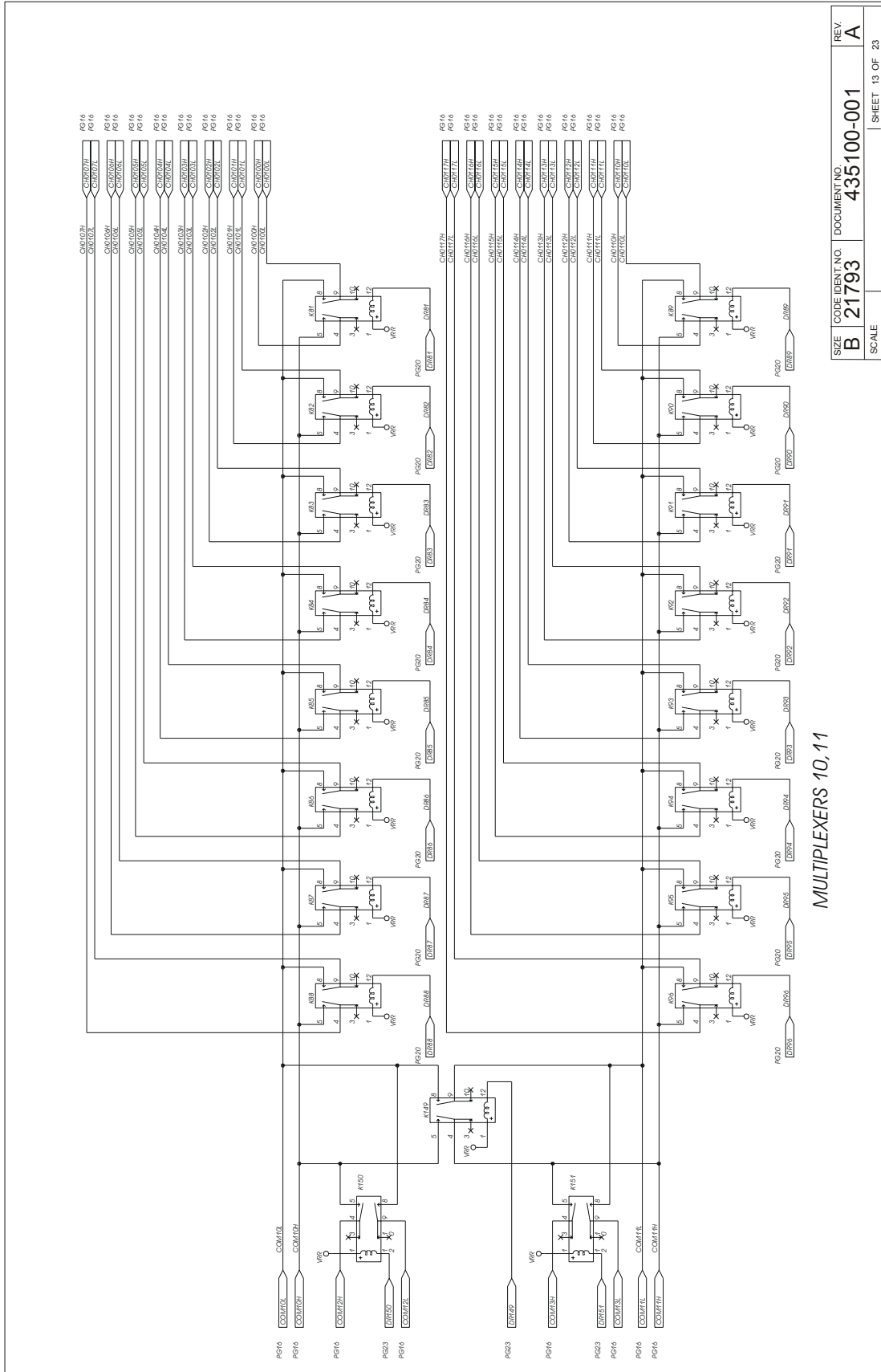
MULTIPLEXERS 04,05

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
B	21793	435100-001	A
SCALE			SHEET 10 OF 23



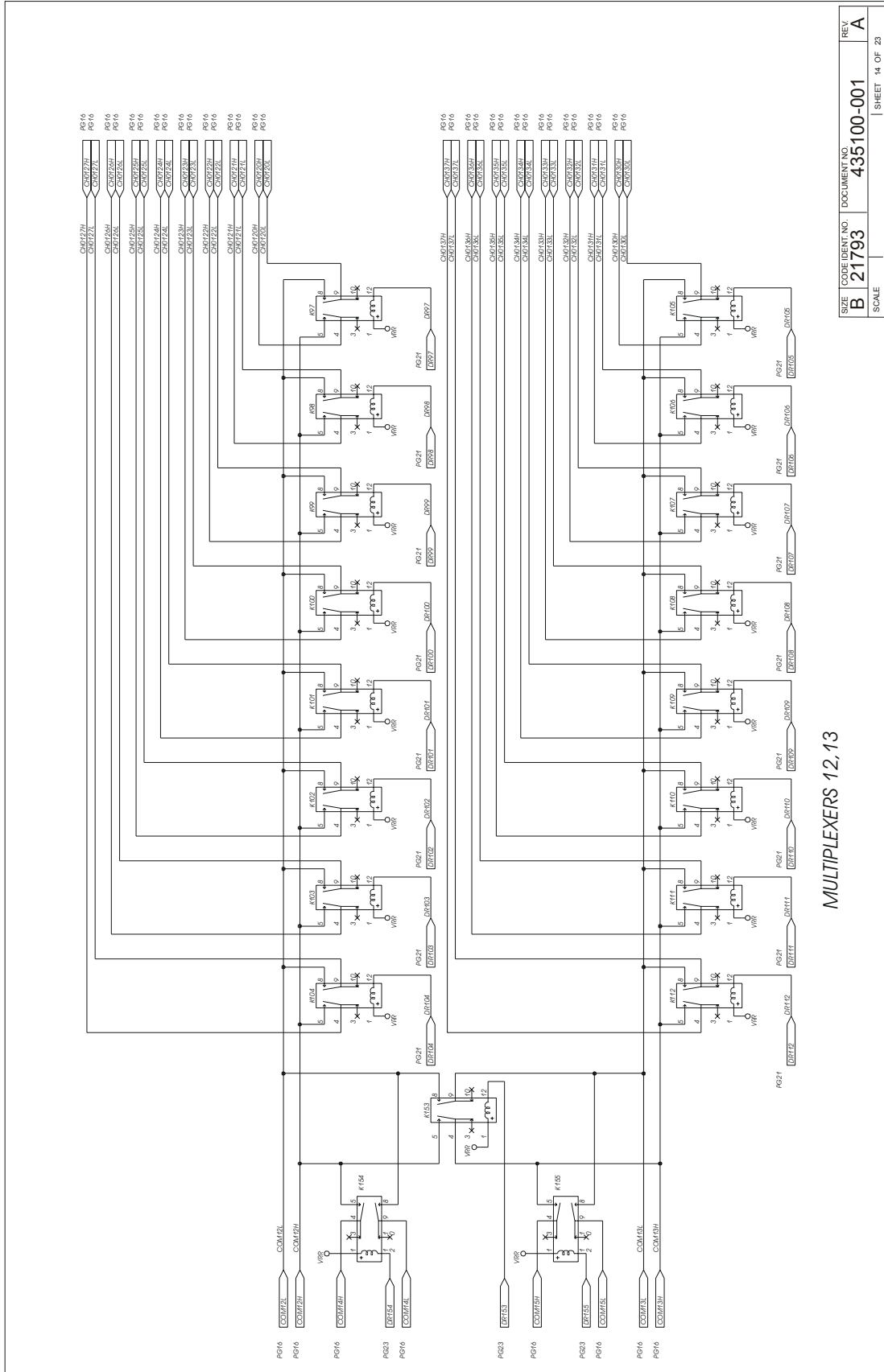
MULTIPLEXERS 06.07

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B	21793		435100-001	A
SCALE				SHEET 11 OF 23



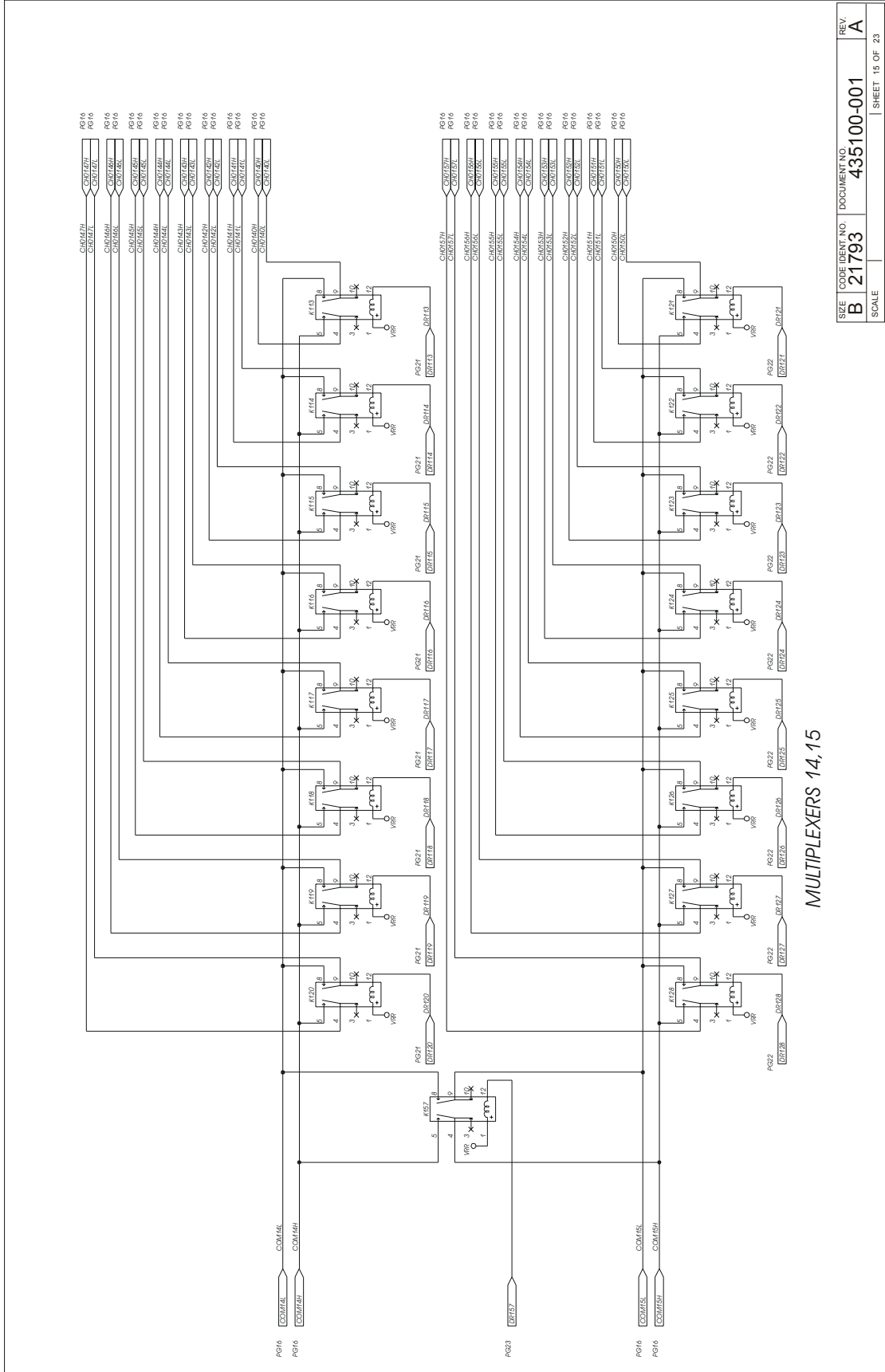
MULTIPLEXERS 10, 11

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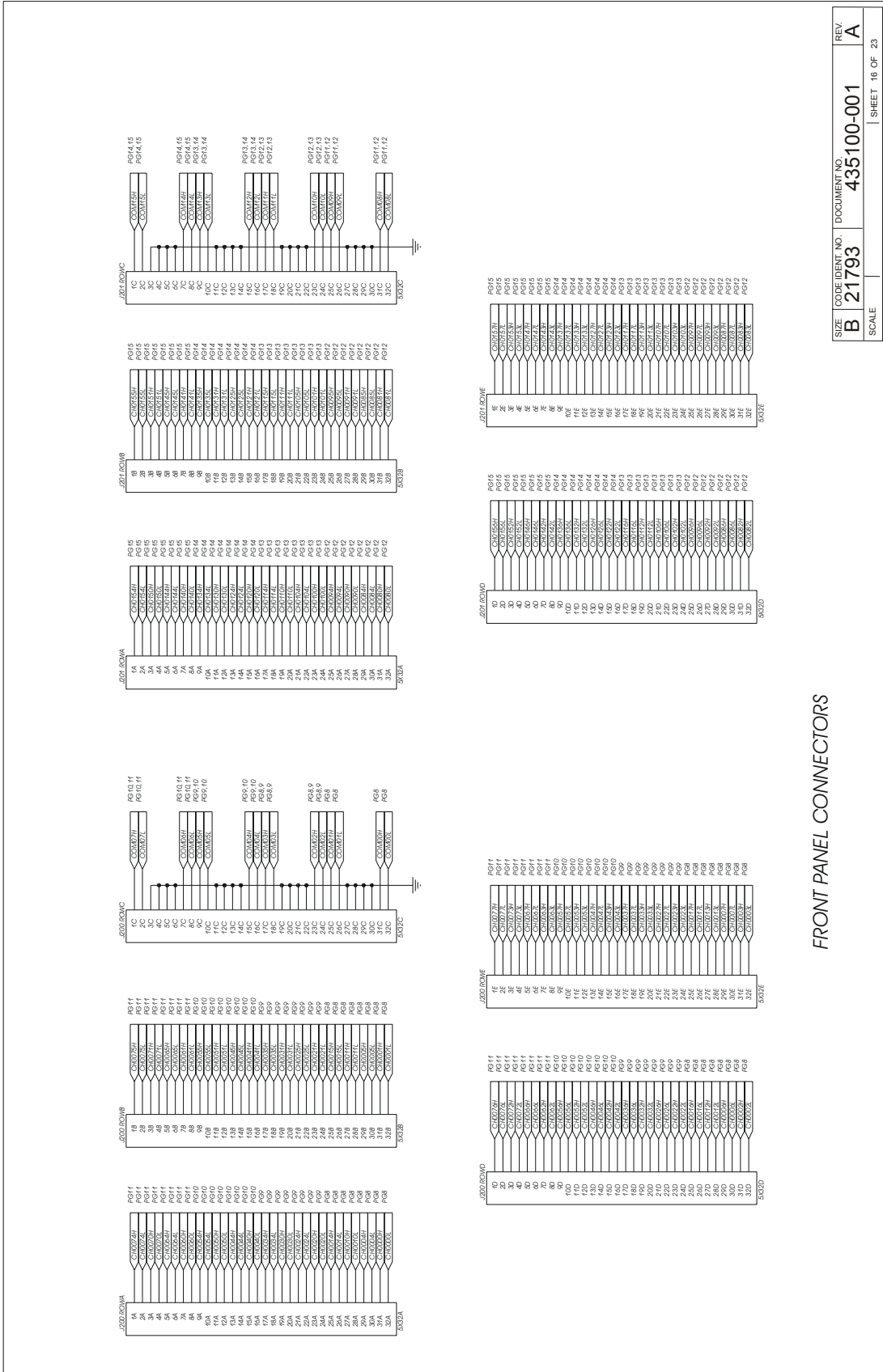
MULTIPLEXERS 12, 13

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SCALE			SHEET 14 OF 23



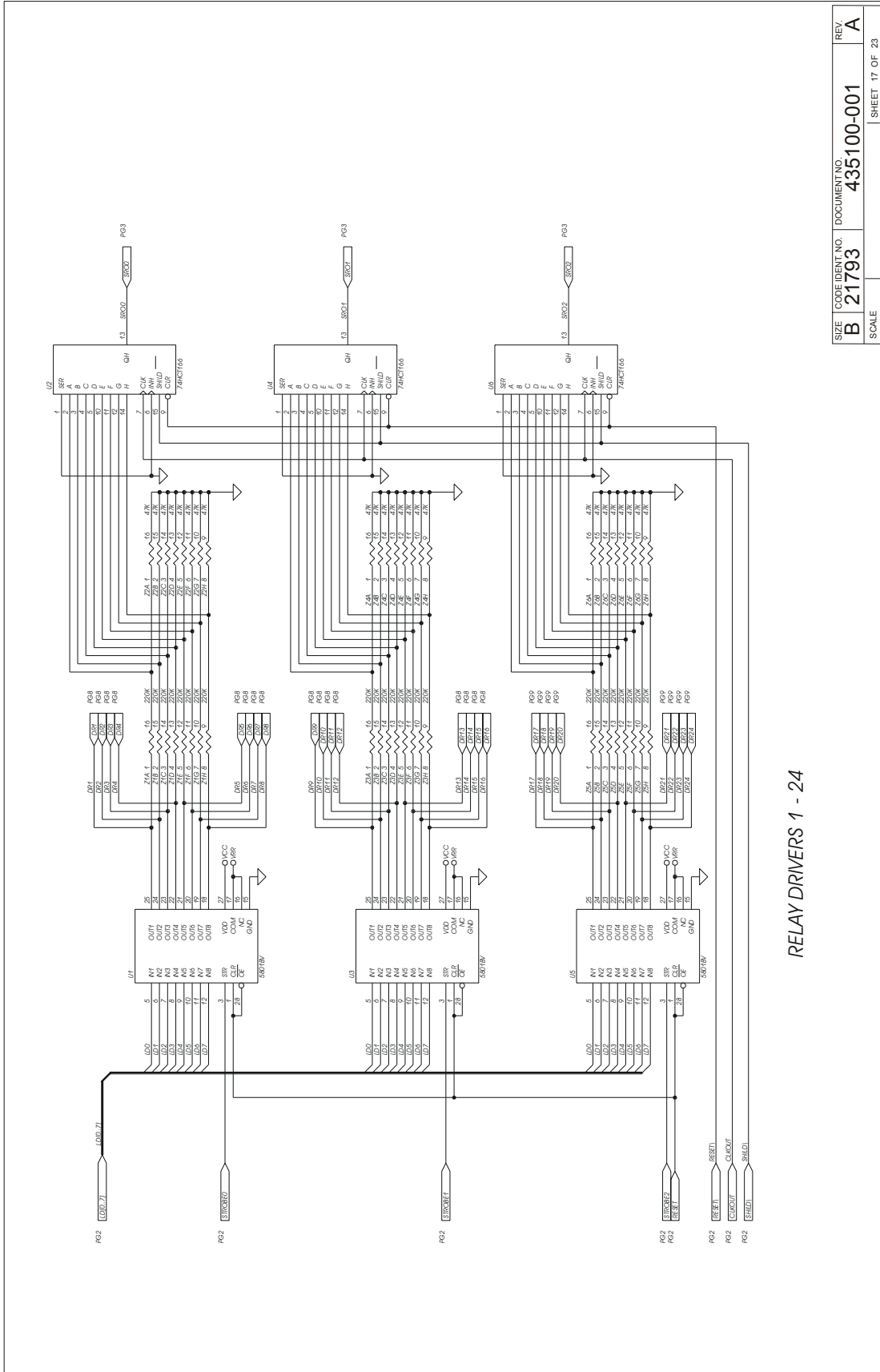
MULTIPLEXERS 14, 15

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SCALE		SHEET 15 OF 23	



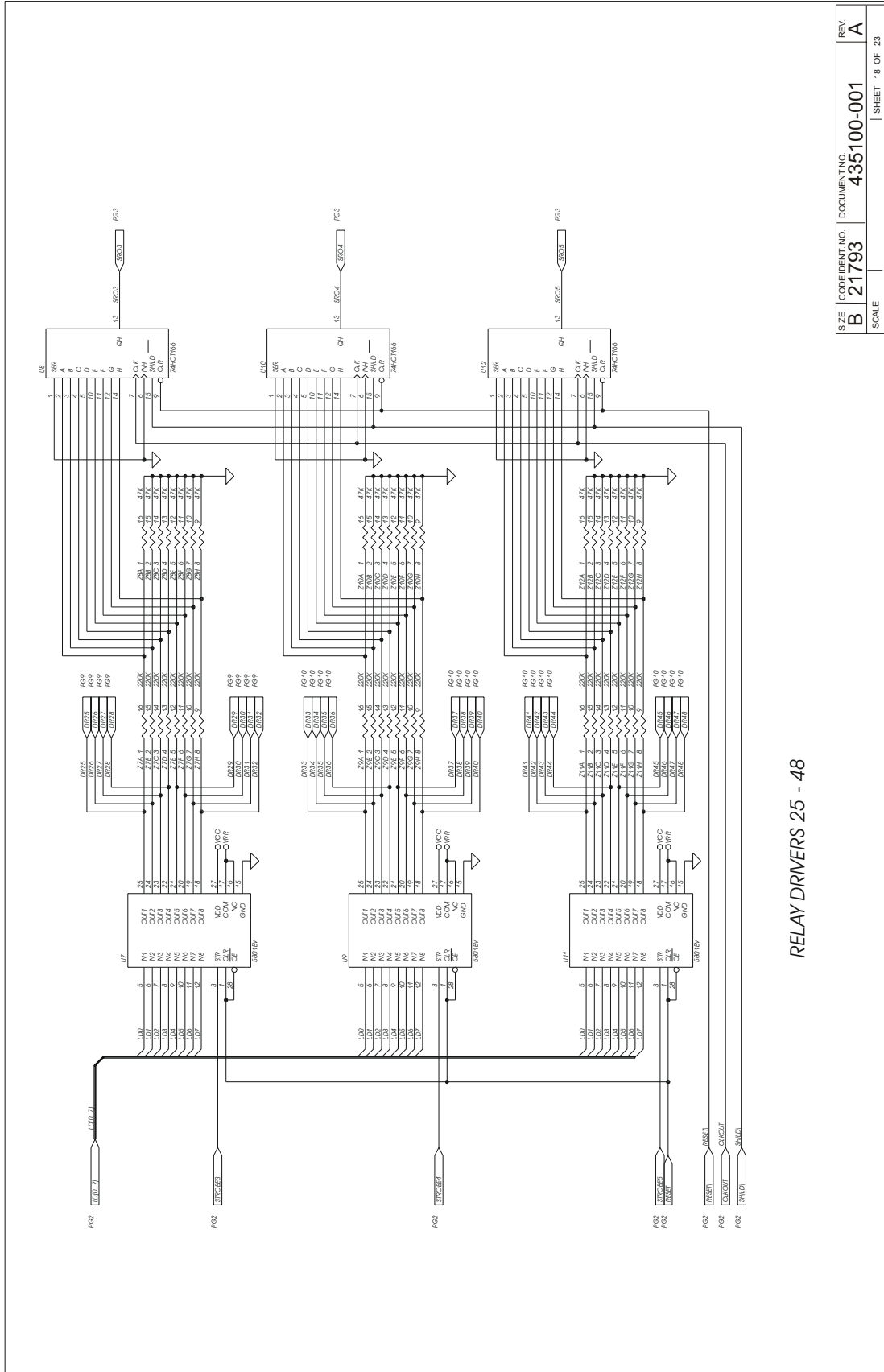
FRONT PANEL CONNECTORS

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SCALE			SHEET 16 OF 23



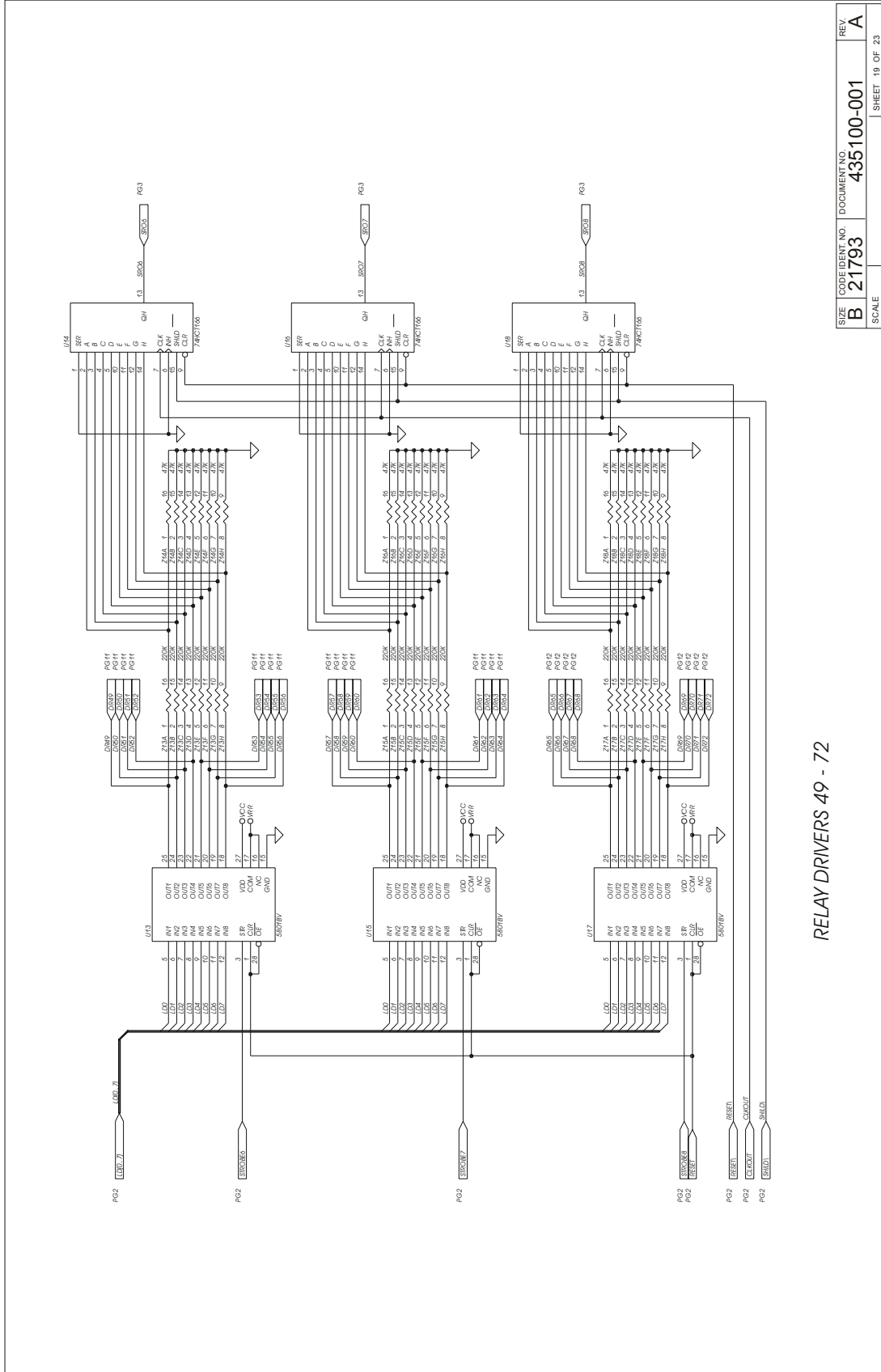
RELAY DRIVERS 1 - 24

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
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SCALE			SHEET 17 OF 23



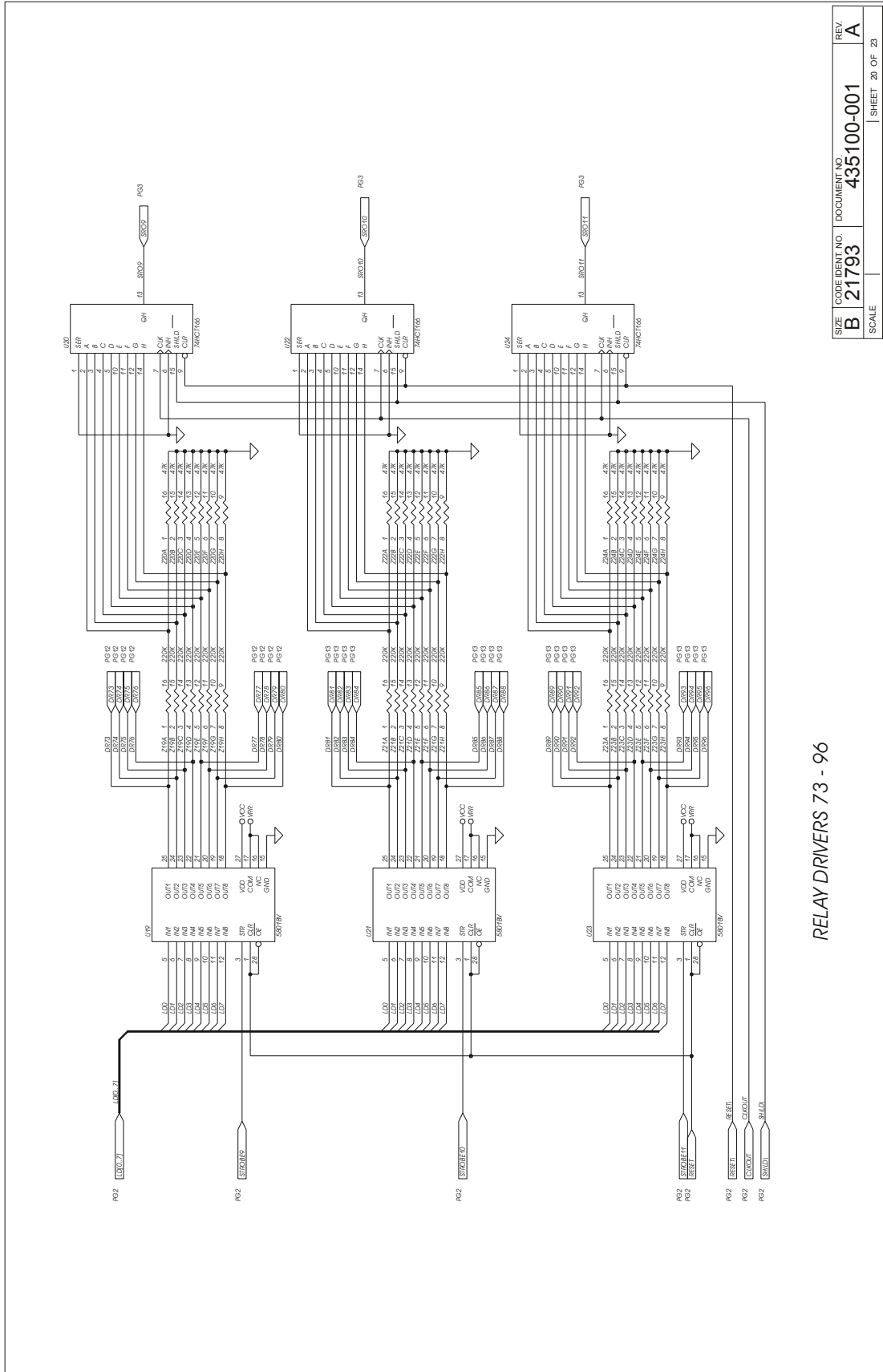
RELAY DRIVERS 25 - 48

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
B	21793	435100-001	A
SCALE			SHEET 18 OF 23



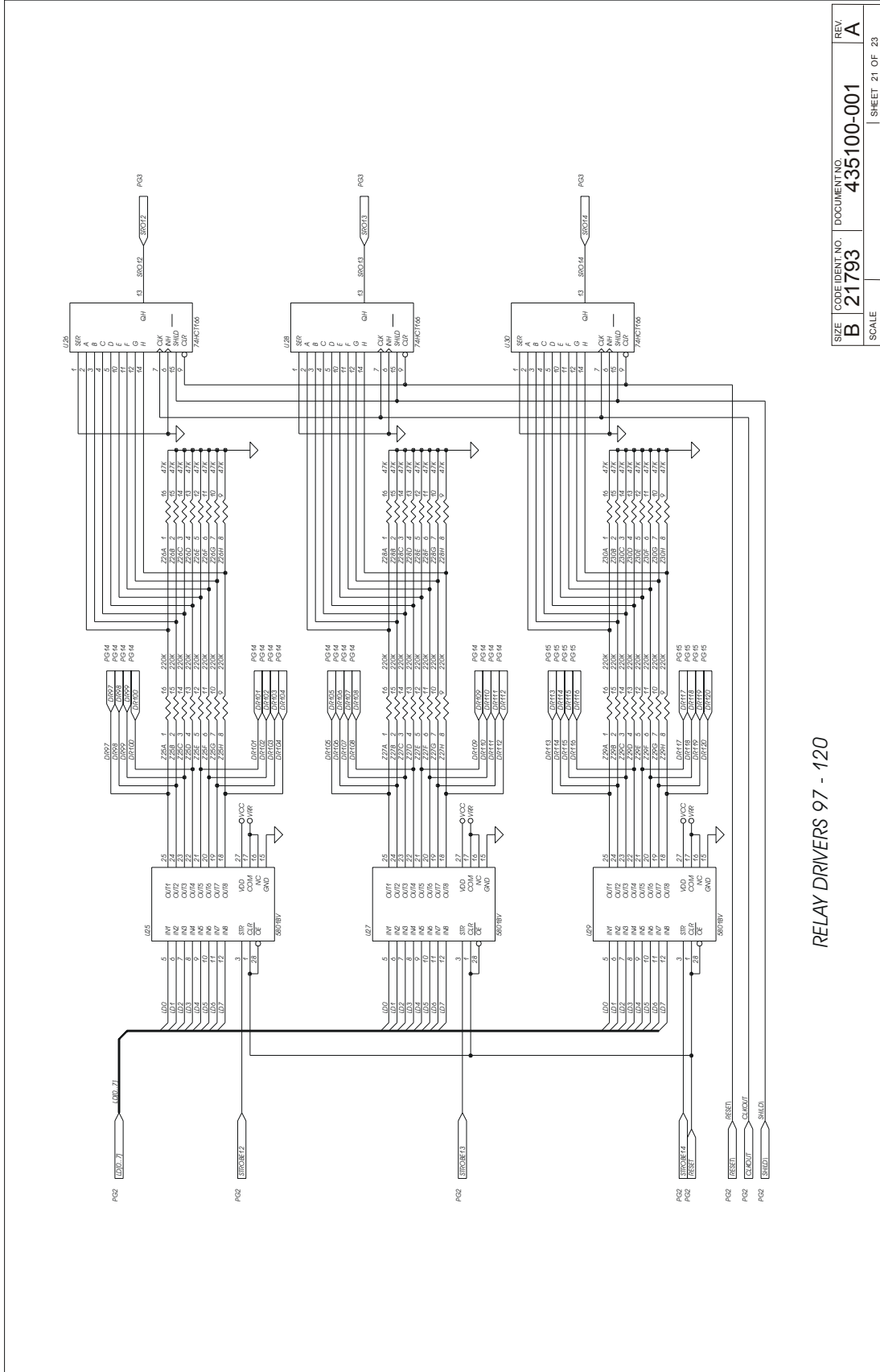
RELAY DRIVERS 49 - 72

SIZE	CODE	NO.	DOCUMENT NO.	REV.
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SCALE				SHEET 19 OF 23



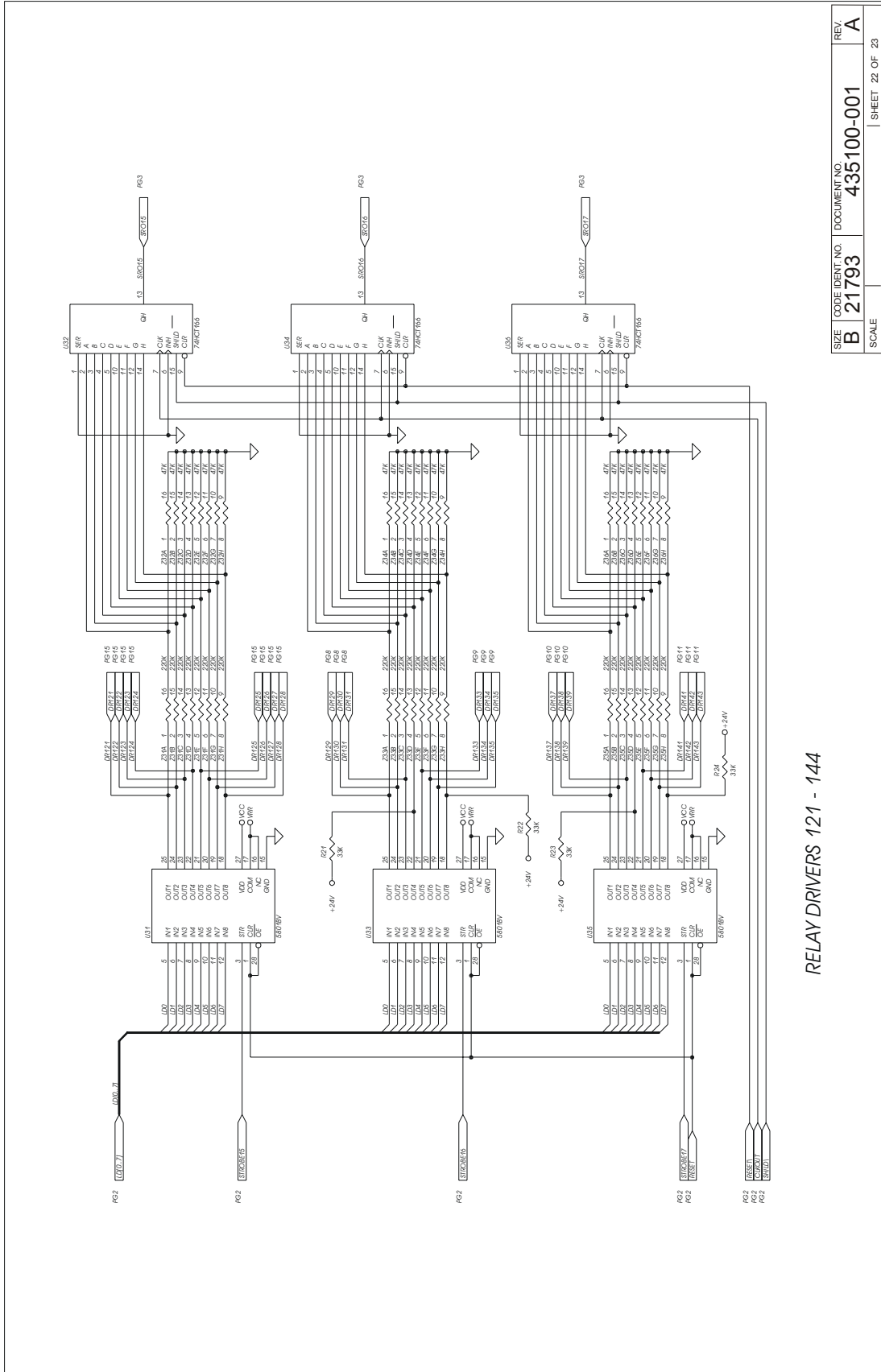
RELAY DRIVERS 73 - 96

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
B	21793	435100-001	A
SCALE	SHEET 20 OF 23		



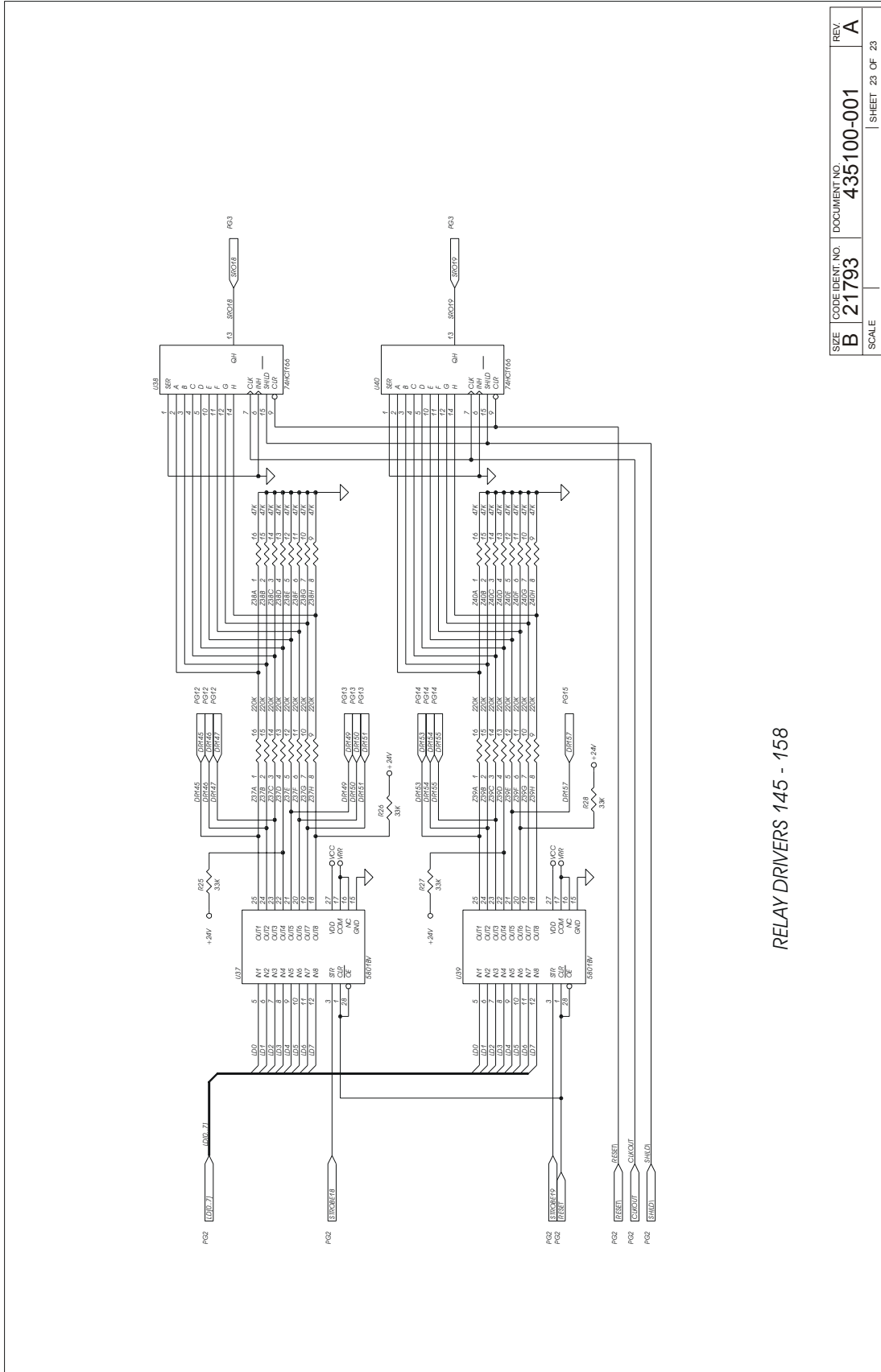
RELAY DRIVERS 97 - 120

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
B	21793	435100-001	A
SCALE	SHEET 21 OF 23		



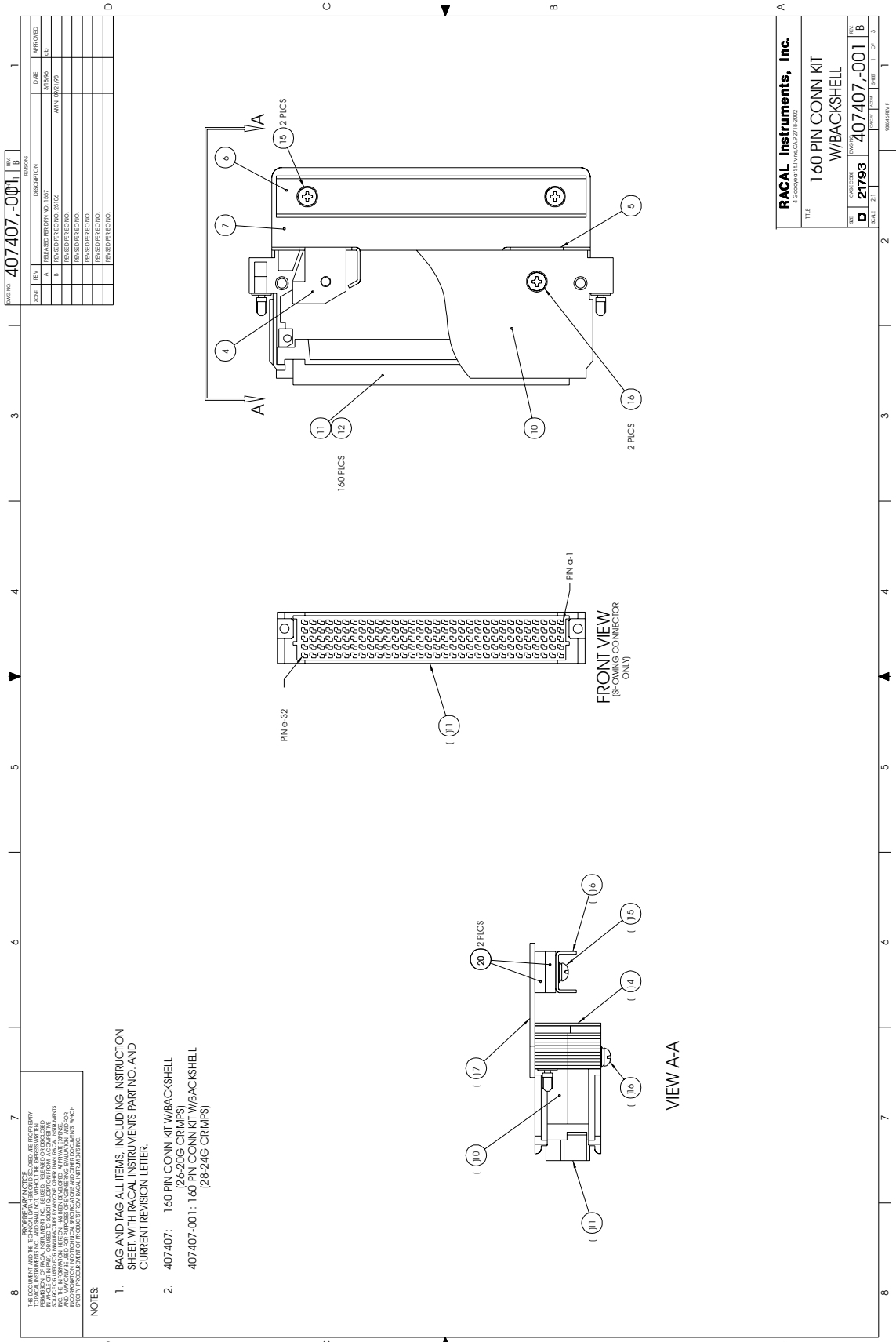
RELAY DRIVERS 121 - 144

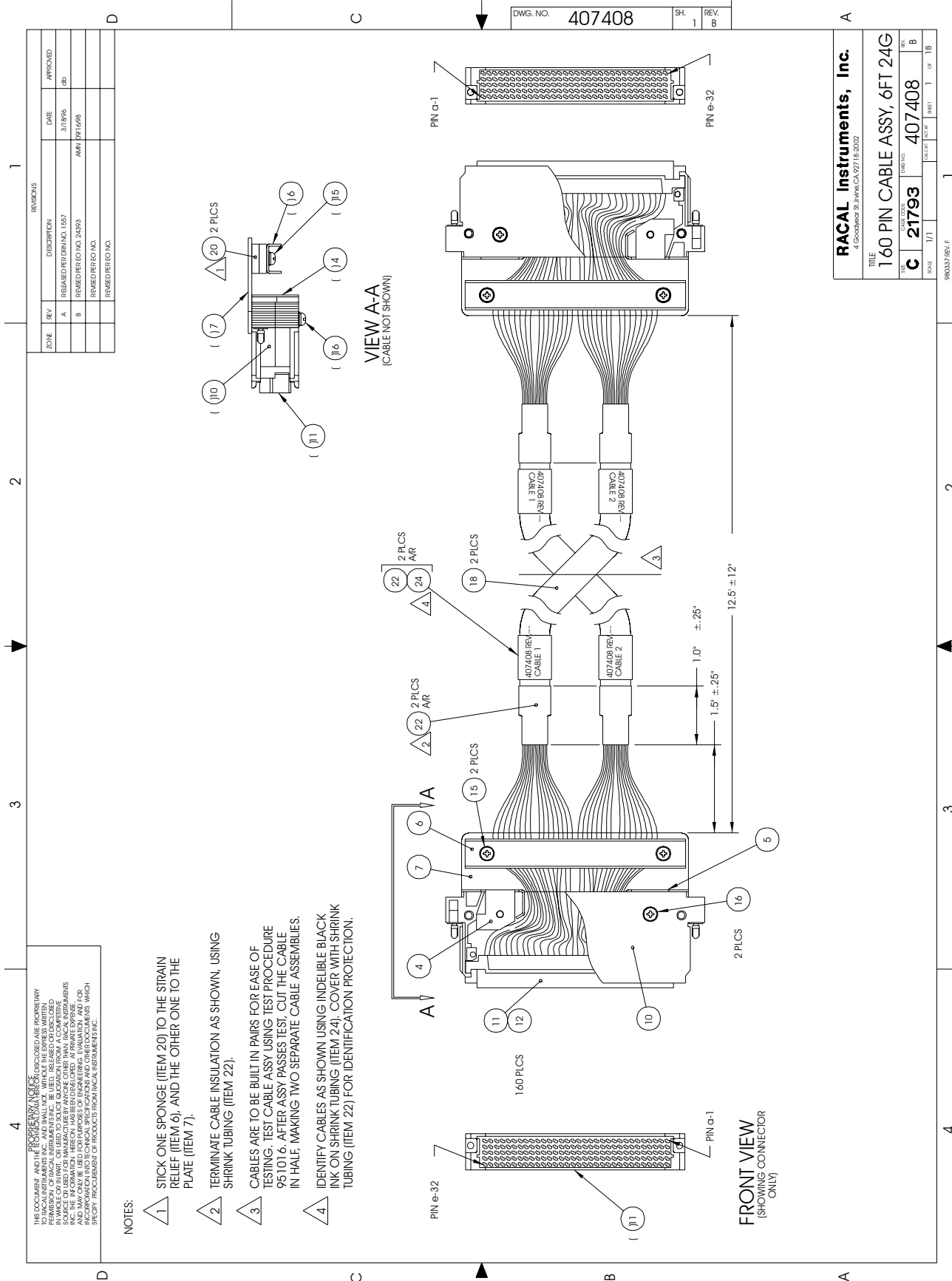
SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
B	21793	435100-001	A
SCALE	SHEET 22 OF 23		



RELAY DRIVERS 145 - 158

SIZE	CODE IDENT. NO.	DOCUMENT NO.	REV.
B	21793	435100-001	A
SCALE			SHEET 23 OF 23





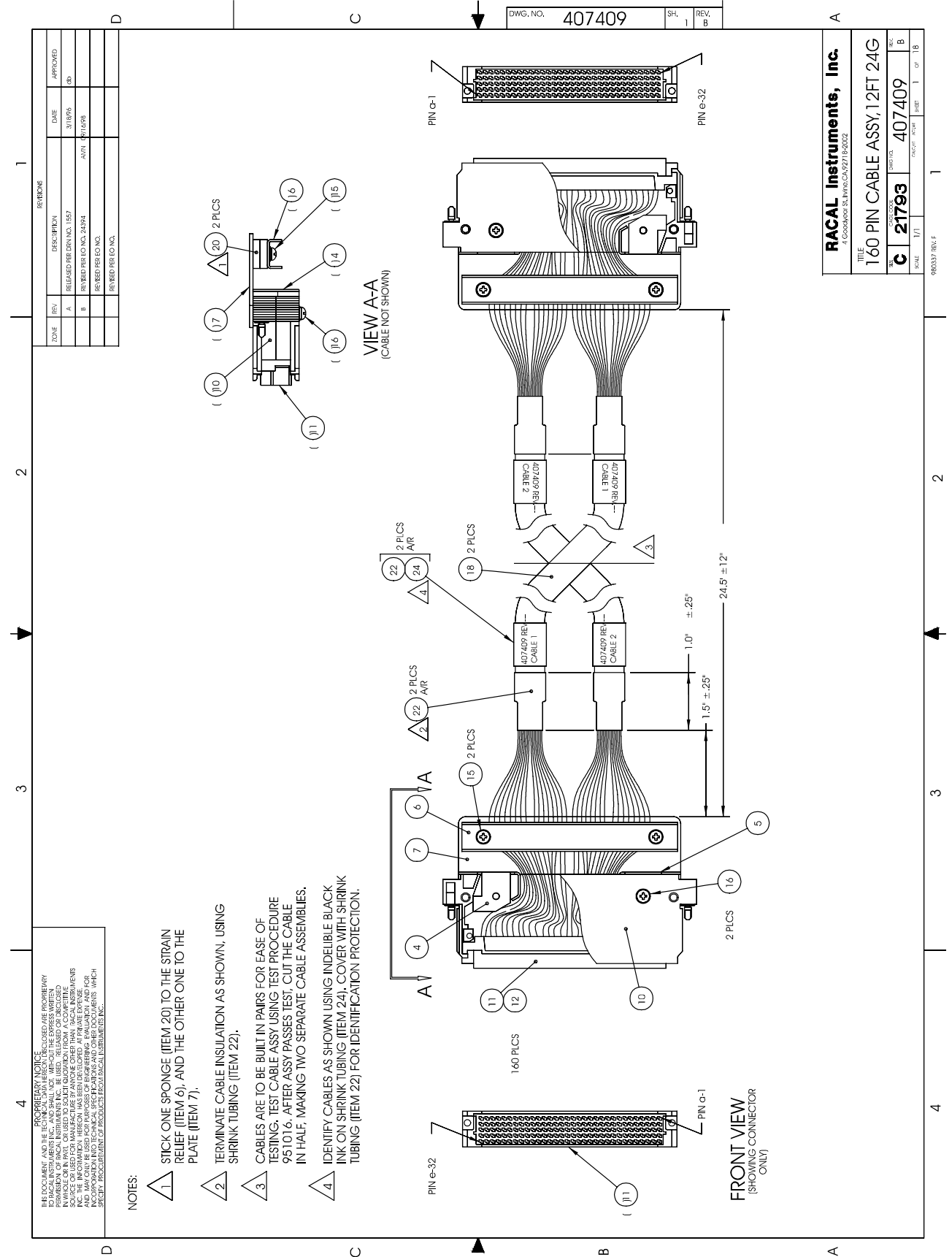
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NOTES:

- 1. STICK ONE SPONGE (ITEM 20) TO THE STRAIN RELIEF (ITEM 6), AND THE OTHER ONE TO THE PLATE (ITEM 7).
- 2. TERMINATE CABLE INSULATION AS SHOWN, USING SHRINK TUBING (ITEM 22).
- 3. CABLES ARE TO BE BUILT IN PAIRS FOR EASE OF TESTING. TEST CABLE ASSY USING TEST PROCEDURE 951016. AFTER ASSY PASSES TEST, CUT THE CABLE IN HALF, MAKING TWO SEPARATE CABLE ASSEMBLIES.
- 4. IDENTIFY CABLES AS SHOWN USING INDELIBLE BLACK INK ON SHRINK TUBING (ITEM 24). COVER WITH SHRINK TUBING (ITEM 22) FOR IDENTIFICATION PROTECTION.

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		RELEASED PER NO. 1557	3/19/96	GB
B		RELEASED PER NO. 24933	AWA 09/16/98	
		RELEASED PER NO. 1		
		RELEASED PER NO. 2		

RACAL Instruments, Inc.	
4 Goodwood St, Warrimoo NSW 2570	
TITLE 160 PIN CABLE ASSY, 6FT 24G	
REV C	REV. NO. 407408
SCALE 1/1	SHEET 1 OF 18



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- NOTES:
1. STICK ONE SPONGE (ITEM 20) TO THE STRAIN RELIEF (ITEM 6), AND THE OTHER ONE TO THE PLATE (ITEM 7).
 2. TERMINATE CABLE INSULATION AS SHOWN, USING SHRINK TUBING (ITEM 22).
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 4. IDENTIFY CABLES AS SHOWN USING INDELIBLE BLACK INK ON SHRINK TUBING (ITEM 24). COVER WITH SHRINK TUBING (ITEM 22) FOR IDENTIFICATION PROTECTION.

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Chapter 5

PARTS LIST

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407410-001 - FINAL ASSEMBLY, 1260-38T

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{6}1	407417-001	SHIP KIT, 1260-38T	21793	407417-001
{7}1	405100-001	PCB ASSY, 1260-38T	21793	405100-001
{10}1	456238-002	PANEL, RIGHT, 1260 SERIES	21793	456238-002
{11}2	456438-001	BRACKET, CONNECTOR MOUNTING, TOP	21793	456438-001
{12}2	456438-002	BRACKET, CONNECTOR MOUNTING, BOTTOM	21793	456438-002
{13}1	456239-002	PANEL, LEFT, 1260 SERIES	21793	456239-002
{16}1	456441	PANEL, FRONT, 1260-38	21793	456441
{18}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{19}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{20}0.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{23}4	616305	SCREW, PPH, M2.5X12	-	-
{24}8	616400	SCREW, PFH, M2.5X 4	-	-
{28}2	616405	SCREW, PFH, M2.5X12	-	-
{29}6	616414	SCREW, PFH, M3.0X5	-	-
{30}4	617127	WASHER, LOCK, #4, LIGHT SERIES	-	-
{32}1	920927	BUMPER, ADHESIVE BACK	53387	8J-5003BUMPON
{33}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{35}1	921059	LABEL, CAUTION, STATIC	21793	921059
{36}1	921148-001	LABEL SET VXI	21793	921148-001
{37}1	921309	LABEL, VXI SWITCH ID	21793	921309

407417 - SHIP KIT, 1260-38T

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, C	21793	455541
{3}2	455542	KEY, LOCKOUT, TTL, A	21793	455542
{4}3	615013	SCREW, PPF, 2-56 X .188	-	-
{5}1	980673-042	MANUAL, 1260-38T	21793	980673-042

405100-001 - PCB ASSY, 1260-38T

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-C4	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C5	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C6	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C100-C102	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C103	1130198	CAP, CHIP, 150NF, 35V, 10PCT	04222	TAJA154K035R
C104-C106	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C108	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C110	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C113	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C116-C118	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C120-C125	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C127-C140	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C141-C144	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C166	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C167	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
J3	1601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J4	1601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J200	1602249-116	CONNECTOR, PCB, PLUG, 160 PIN, 5 ROW	58730	MVC160-0122-2
J201	1602249-116	CONNECTOR, PCB, PLUG, 160 PIN, 5 ROW	58730	MVC160-0122-2
K1-K131	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
K133-K135	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
K137-K139	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
K141-K143	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
K145-K147	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
K149-K151	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
K153-K155	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
K157	1310256	RELAY, ELECTRO-MECH, 2P2T, 2A, 24V	61529	TX2-24V
L1	1100164	CAP, FEED-THRU, 800PF, 50V	00779	842448-2
L2	1310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L3	1310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L4	1100164	CAP, FEED-THRU, 800PF, 50V	00779	842448-2
L5	1600245	JUMPER, INSULATED	52210	IL-2007-1
P1	1601675	CONNECTOR, EUROCARD TYPE C, 96-PIN	00779	532505-1
P2	1601675	CONNECTOR, EUROCARD TYPE C, 96-PIN	00779	532505-1
Q1	1200320	TRANSISTOR, NPN	04713	MMBT3904
R17	050000-102	RES, CHIP, 1K, .06W, 5PCT	91637	CRCW-0805SERIES
R18	050000-332	RES, CHIP, 3.3K, .06W, 5PCT	91637	CRCW0805SERIES
R19	050000-102	RES, CHIP, 1K, .06W, 5PCT	91637	CRCW-0805SERIES
R20	050000-102	RES, CHIP, 1K, .06W, 5PCT	91637	CRCW-0805SERIES
R21-R28	050000-333	RES, CHIP, 33K, .06W, 5PCT	91637	CRCW08053302J
SW1-SW3	1601969	SWITCH, DIP 6 POS, LOW PROFILE	65832	K406S
TP1	1601197	POST, TEST, .025 SQ	00779	16-87022-6
TP2	1601197	POST, TEST, .025 SQ	00779	16-87022-6
U1	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U2	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U3	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U4	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U5	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U6	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U7	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U8	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U9	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U10	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U11	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U12	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U13	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U14	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U15	1231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	160496	MIC5801BV
U16	1231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D

1260-38T User Manual

405100-001 - PCB ASSY, 1260-38T

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
U17	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U18	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U19	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U20	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U21	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U22	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U23	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U24	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U25	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U26	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U27	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U28	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U29	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U30	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U31	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U32	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U33	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U34	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U35	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U36	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U37	231555	IC, BIT PARALLEL-INPUT LACHED DRIVERS	60496	MIC5801BV
U38	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U39	231555	IC, BIT PARALLEL-INPUT LATCHED DRIVERS	60496	MIC5801BV
U40	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U53	231153-001	IC, PROGRAMMED, PAL	21793	231153-001
U54	231445	IC, 3-TO-8 LINE DECODER/MUX	18324	74HCT138D
U55	231445	IC, 3-TO-8 LINE DECODER/MUX	18324	74HCT138D
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	231152-002	IC, PROGRAMMED, PAL	21793	231152-002
U71	231147	IC, MULTIPLEXER	04713	74HC253D
U72	231147	IC, MULTIPLEXER	04713	74HC253D
U73	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U74	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U75	231125	IC, DIGITAL, LINE DRIVER	27014	DS26LS31MN
U76	231154	IC, PROGRAMMED PLA	21793	231154
U77	231147	IC, MULTIPLEXER	04713	74HC253D
U78	231445	IC, 3-TO-8 LINE DECODER/MUX	18324	74HCT138D
U79	231091	IC, OCTAL BUFFER	18324	74HC240D
U80	231091	IC, OCTAL BUFFER	18324	74HC240D
U81	231091	IC, OCTAL BUFFER	18324	74HC240D
U82	231119	IC, SHIFT REGISTER	18324	74HCT299D
U83	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

405100-001 - PCB ASSY, 1260-38T

REF DESIG	RACAL P/N	INST DESCRIPTION	FSC	MANUFACTURER'S P/N
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	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z26	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z27	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z28	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z29	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z30	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z31	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z32	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z33	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z34	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z35	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z36	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z37	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z38	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z39	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z40	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z127	080114	RES NETWORK, 16P8R, 15K	73138	628-AL-153J
Z128	080120	RES NETWORK, 10K	11236	1767-161R10K
{58}1	401951	PCB ASSY., LBUS JUMPER	21793	401951
{59}1	401951-003	PCB ASSY., P3 JUMPER	21793	401951-003
{60}1	415100-001	PCB, 1260-38T (UNLOADED)	21793	415100-001
{64}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{81}2	611367	STANDOFF, ROUND SWAGE, M3X0.5X4.3	106540	121003B-B-0350-28(L4.3)
{82}1	611366	STANDOFF, ROUND SWAGE, M3X0.5X19	106540	121017-B-0350-28

407407 - 160 PIN CONNECTOR KIT W/BACKSHELL

407407 - 160 PIN CONNECTOR KIT W/BACKSHELL

REF	RACAL INST	DESCRIPTION	FSC	MANUFACTURER'S P/N
DESIG	P/N			
{4}1	456437-001	BRACKET, STIFFENER, TOP	21793	456437-001
{5}1	456437-002	BRACKET, STIFFENER, BOTTOM	21793	456437-002
{6}1	456439	STRAIN RELIEF	21793	456439
{7}1	456440	PLATE, SHELL MOUNTING	21793	456440
{10}1	602255-001	HOUSING CABLE, MODIFIED	21793	602255-001
{11}1	602258-116	CONNECTOR, CABLE, RECEPTACLE, 160 PIN	16V439	024070
{12}160	602258-900	TERMINAL, CRIMP, SNAP-IN, 26-20 GA	16V439	014728
{15}2	616252	SCREW, PPH, SEMS ASSY, 4-40X.312	178189	SEMS W/SQ CONE WA.
{16}2	616254	SCREW, PPH, SEMS ASSY., 4-40 X .500	178189	SEMS W/SQ CONE WA.
{20}2	456502	SPONGE, PRESSURE, 1260-38	21793	456502
{24}1	1980785	INSTRUCTION SHEET, 160 PIN KIT	21793	1980785

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{4}1	1456437-001	BRACKET, STIFFENER, TOP	21793	1456437-001
{5}1	1456437-002	BRACKET, STIFFENER, BOTTOM	21793	1456437-002
{6}1	1456439	STRAIN RELIEF	21793	1456439
{7}1	1456440	PLATE, SHELL MOUNTING	21793	1456440
{10}1	1602255-001	HOUSING CABLE, MODIFIED	21793	1602255-001
{11}1	1602258-116	CONNECTOR, CABLE, RECEPTACLE, 160 PIN	16V439	1024070
{12}160	1602258-900	TERMINAL, CRIMP, SNAP-IN, 26-20 GA	16V439	1014728
{15}2	1616252	SCREW, PPH, SEMS ASSY, 4-40X.312	178189	SEMS W/SQ CONE WA.
{16}1	1616254	SCREW, PPH, SEMS ASSY., 4-40 X .500	178189	SEMS W/SQ CONE WA.
{18}A/R	1500319	CABLE, 40 CONDUCTOR, 24 GA UNSHIELDED	192194	15020/80C
{19}2	1456502	SPONGE, PRESSURE, 1260-38	21793	1456502
{22}A/R	1M23053/5-109-0	SLEEVING, INSUL. HEAT SHRINK, .75D, CLR	181349	1M23053/5-109-0
{24}A/R	1M23053/5-109-4	SLEEVING, INSUL. HEAT SHRINK, .75D, YEL	181349	1M23053/5-109-4

List of Suppliers

FSC	SUPPLIER	FSC	SUPPLIERS
00779	AMP, INC. HARRISBURG, PA	73138	BECKMAN INSTRUMENTS FULLERTON, CA
01121	ALLEN BRADLEY CO. MILWAUKEE, WI	78189	ILLINOIS TOOL WORKS, INC. (SHAKEPROOF DIV.) ELGIN, IL
01295	TEXAS INSTRUMENTS, INC. DALLAS, TX	91637	DALE ELECTRONICS, INC. COLUMBUS, NE
04222	AEROVOX CORP. (HI-Q DIV.) MYRTLE BEACH, SC	92194	ALPHA WIRE ELIZABETH, NJ
04713	MOTOROLA, INC. (SEMICONDUCTOR PRODUCTS DIV.) PHOENIX, AZ	95275	VITRAMON, INC. BRIDGEPORT, CT
05397	UNION CARBIDE CORP. (MATERIALS SYSTEMS DIV.) CLEVELAND, OH		
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		
52072	CIRCUIT ASSY. CORP. COSTA MESA, CA		
52210	GETTING ENGRG. & MFG. CO. SPRING MILLS, PA		
53387	THREE M (3M) CO. ST. PAUL, MN		
58730	THOMAS & BETTS CO. ELIZABETH, NJ		
60496	MICREL INC. SUNNYVALE, CA		
61529	AROMAT CORP. CUPERTINO, CA		
62559	SCHROFF, INC. WARWICK, RI		
65832	AMERICAN RESEARCH & ENGINEERING ELGIN, IL		
6V439	ERNI COMPONENTS INC. RICHMOND, VA		

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Chapter 6

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 1260-38T 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

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

Technologie Park, Friedrich Ebert Strasse, 51429 Bergisch Gladbach, Germany
Tel: +49 (0) 2204 844200; Fax: +49 (0) 2204 844219