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1260 VXI
SWITCHING CARD

1260-50C/D
200MHz
MULTIPLEXER MODULE

PUBLICATION NO. 980673-028

RACAL INSTRUMENTS

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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.

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

You may contact your customer service advisor by:

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	+852 2405 5500	(Hong Kong)
Fax:	+1 949 859 7309	(USA)
	+44(0) 1628 662017	(UK)
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RETURN of PRODUCT

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

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FOR YOUR SAFETY

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

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

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

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

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

Before operating this instrument:

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

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

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

If the instrument:

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

Do not operate until performance is checked by qualified personnel.

Racal Instruments

EC Declaration of Conformity

We

Racal Instruments Inc.
4 Goodyear Street
Irvine, CA 92718

declare under sole responsibility that the

1260-50C 200 MHz Multiplexer Module, P/N 407366-001
1260-50D 200 MHz Multiplexer Module, P/N 407366-002

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, May 10, 2002 Karen L. Tenst
Engineering Director

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Chapter 1
INTRODUCTION

1260-50C/D 200MHz Multiplexer Module

The 1260-50C/D provides eight/sixteen 1 x 4 multiplexers (refer to the Functional Diagram Figure 1-2). Relays CHI9, 29,..., 159 provide for the connections between the adjacent 1 x 4 groups under software control. Thus, the 1260-50C/D module can be configured as multiplexers up to 1 x 39/1 x 79 size. The 200 MHz bandwidth is guaranteed for all possible multiplexer sizes. The only restriction is the groups not needed for a connection between any two channels have to be disconnected to achieve 200 MHz bandwidth.

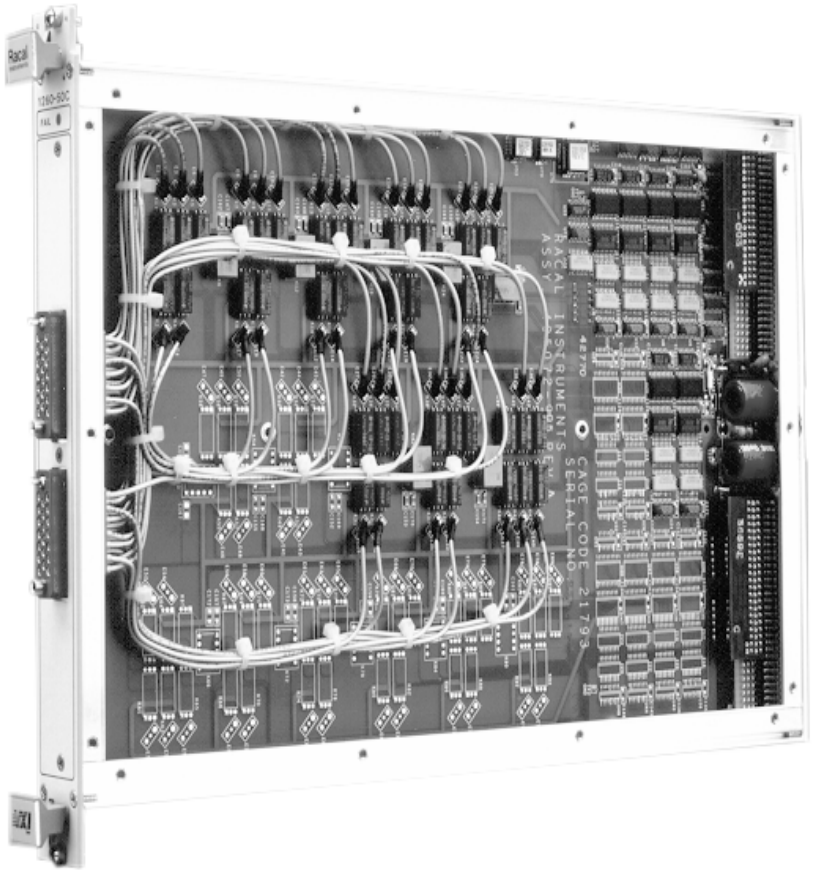


Figure 1-1, 1260-50C/D

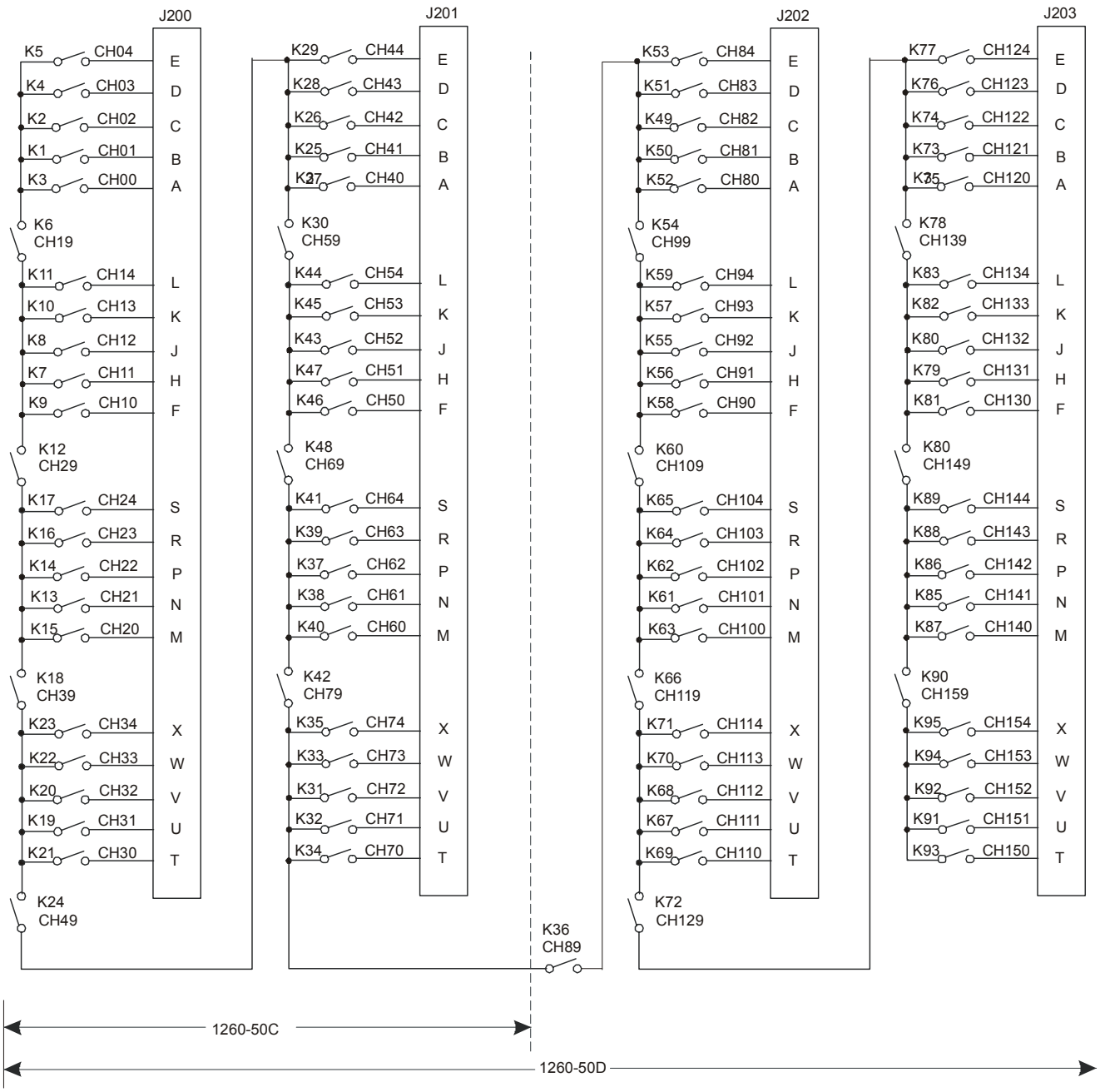


Figure 1-2, 1260-50C/D Functional Diagram

Specifications

Minimum Option 01 Firmware Revision	24.1
User Connector Housing: Contact:	 Burndy MSD20PM-118 Burndy RMDX60-36D28 for RG316 Coaxial Cable
Maximum Switchable Voltage (Signal to Ground)	200V DC/Peak AC Resistive Load
Maximum Switchable Current Per Channel	0.5A DC/Peak AC Resistive Load
Maximum Carry Current Per Channel	1A DC/Peak AC Resistive load
Life Expectancy Typical at Signal Level <1.0 V, .010 A	250×10^6
DC Performance	
Path Resistance (1X4 Multiplexer) (1X79 Multiplexer)	 <0.7Ω <2.0Ω
AC Performance	
Impedance	50 Ohm
Bandwidth (-3 dB)	>200 MHz
Insertion Loss (1 x 4 Multiplexer)	<0.70 dB at 100 MHz
Crosstalk Across Groups 50 Ohm Termination	10 MHz: <= -40 dB 100 MHz: <= -40 dB 200 MHz: <= -35 dB
Isolation Between Channels 50 Ohm Termination	10 MHz: <= -40 dB 100 MHz: <= -40 dB
VSWR (50 Ohm Termination) (1 x 4 Multiplexer)	1.3 :1 at 100 MHz

Rise Time (Typical 1 x 4 Multiplexer)	1.6 ns
Fall Time (Typical 1 x 4 Multiplexer)	1.6 ns
Propagtion Delay Time (Typical 1 x 4 Multiplexer)	3 ns
Switching Time	39 $\pm$ 5mS

Cooling Requirements

Airflow	4 litres / sec
Backpressure	0.5 mm H_20

Power Requirements ('pm)

+5 V	2.5 A
+12 V	0.5 A
Weight	1.174 Kg (2.59 lbs) without Option 01 1.315 Kg (2.90 lbs) with Option 01

Coaxial Cable, Optional

Racal Instruments P/N	Length, Feet	Insert ion Loss @200 MHz	VSWR @ 100 MHz
407368-001	2	<.5 dB	1.2:1
407368-003	6	< 1.0 dB	1.2:1
407368-006	12	<2.0 dB	1.2:1

Coaxial cables have been tested to 1GHz, and are available as an option. Each cable contains a coaxial pin at each end. The cables are available in 2, 6, and 12 feet, and can be cut by customers to any length. (Example: The 6-foot cable can be cut to two 3-foot or one 2-foot and one 4-foot cable.) Coax pins (P/N 602220-900) suitable for RG316 coaxial cable may be purchased separately. The 1260-50C requires 40, and the 1260-50D requires 80. To crimp coaxial pins, use crimp tool Hytool M10S-1 from Burndy.

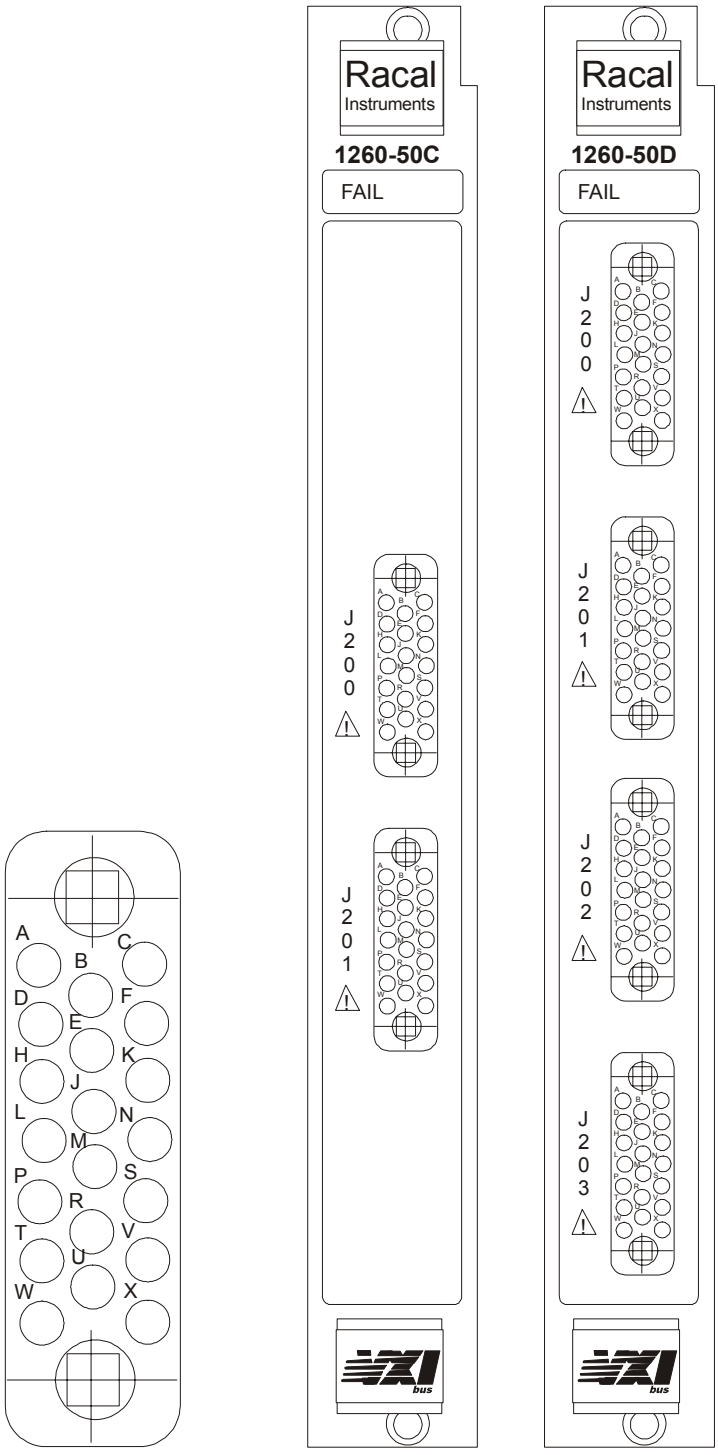


Figure 1-3, 1260-50C/D Front Panel and J200-J203 Connector Pin Configuration

Ordering Information

Model Number	Description	Part Number
1260-50C	8 1X4 50Ω Multiplexer 40 Channels	407366-001
1260-50D	16 1X4 50Ω Multiplexer 80 Channels	407366-002

Chapter 2
INSTALLATION INSTRUCTIONS

Unpacking and Inspection

1. Before unpacking the switching module, check the exterior of the shipping carton for any signs of damage. All irregularities should be noted on the shipping bill.

2. Remove the instrument from its carton, preserving the factory packaging as much as possible.

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 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 to the 1260-50C/D is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

Module Installation

Installation of the 1260-50C/D 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. The ID byte DIP switch, SW1-5 should be set OFF for the 1260-50C module and ON for the 1260-50D module.

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Chapter 3
MODULE SPECIFIC SYNTAX

1260-50C/D Module Specific Syntax

NOTE

The 1260-50C/D Coaxial switching module is supported by the Option 01 Operating Systems at Revision levels 24.1 and above.

The 1260-50C/D RF Multiplexer supports the OPEN, CLOSE, PSETUP, RESET and PDATAOUT commands.

Syntax

The module specific syntax for the 1260-50C/D RF Multiplexer is as follows:

OPEN

OPEN <module address>.<channel>[;<module address> . <channel>J

where <module address> is the address.

<channel> is the relay to be closed to connect an input to the output.

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

The range of values for <channel> is:

1260-50C: 00-04, 10-14, 19, 20-24, 29, 30-34, 39, 40-44, 49, 50-54, 59, 60-64, 69, 70-74, 79

1260-50D: 00-04, 10-14, 19 20-24, 29, 30-34, 39, 40-44, 49, 50-54, 59, 60-64, 69, 70-74, 79, 80-84, 89, 90-94, 99, 100-104, 109, 110-114, 119, 120-124, 129, 130-134, 139, 140-144, 149, 150-154, 159

CLOSE

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

PSETUP

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

PSETUP <module address> [;<module address>] [;<module address>]

where <module address> is the address.

The responses to the PSETUP command for the 1260-50C/D multiplexer is as follows:

1260-50C:

<module address>.1260-50C, 8 (1x4) 200 MHz MULTIPLEXER MODULE

<module address>.B BM

<module address>.END

1260-50D:

<module address>.1260-50D, 16 (1X4) 200 MHz MULTIPLEXER MODULE

<module address> .B BM

<module address> .END

PDATAOUT

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

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

The responses to the PDATAOUT command is as follows:

1260-50C:

<module address>. 1 260-50C 8 (1 x4) 200 MHz MULTIPLEXER MODULE

<module address> .<channel>[,<channel>] [,<channel>]

<module address> END

1260-50D:

<module address>.1260-50D 16 (1x4) 200 MHz MULTIPLEXER MODULE

<module address>.<channel>[,<channel>] [,<channel>]

<module address>.END

Chapter 4
DRAWINGS

407366-001, Final Assembly, 1260-50C 4-3

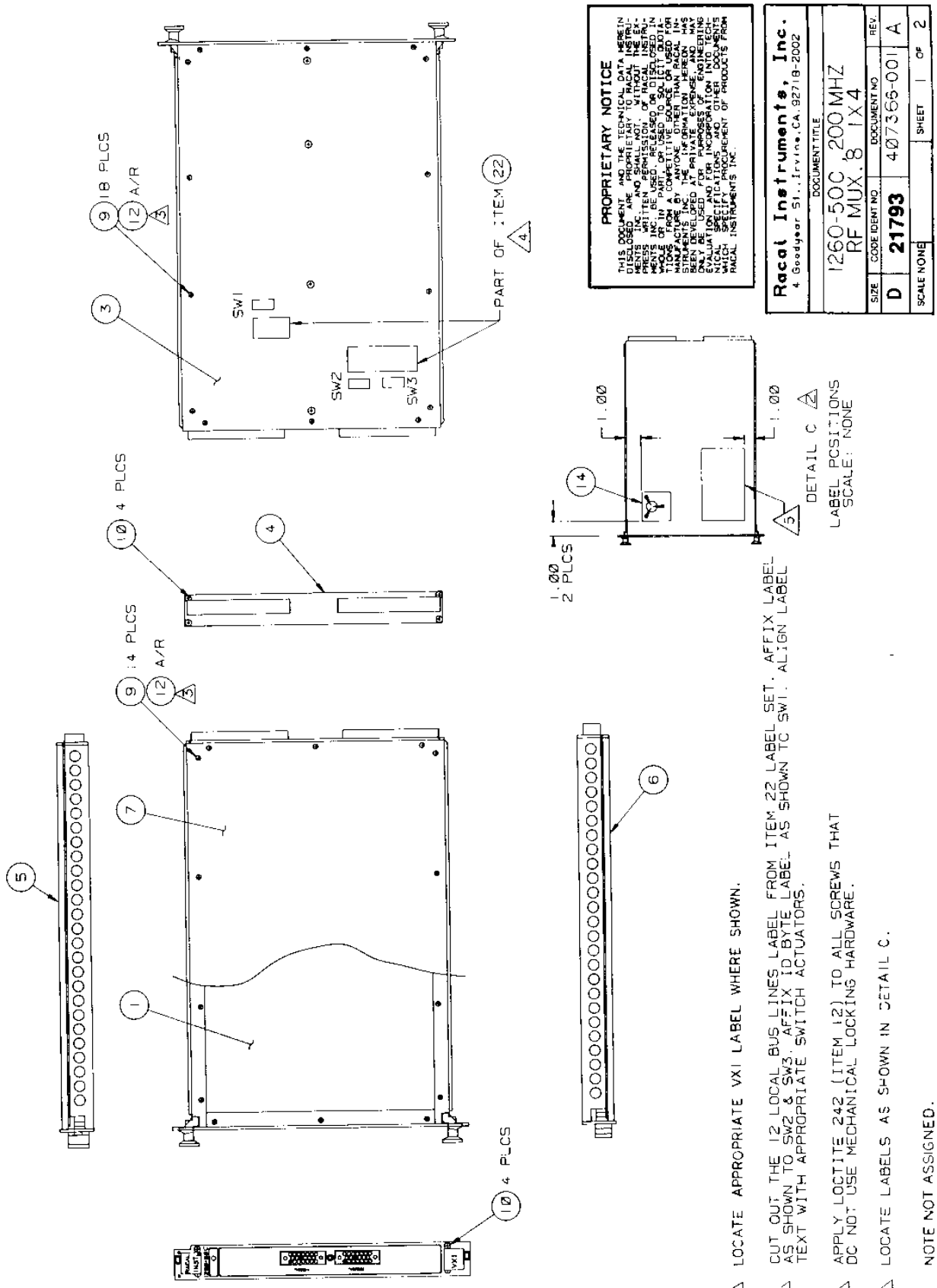
407366-002, Final Assembly, 1260-50D 4-4

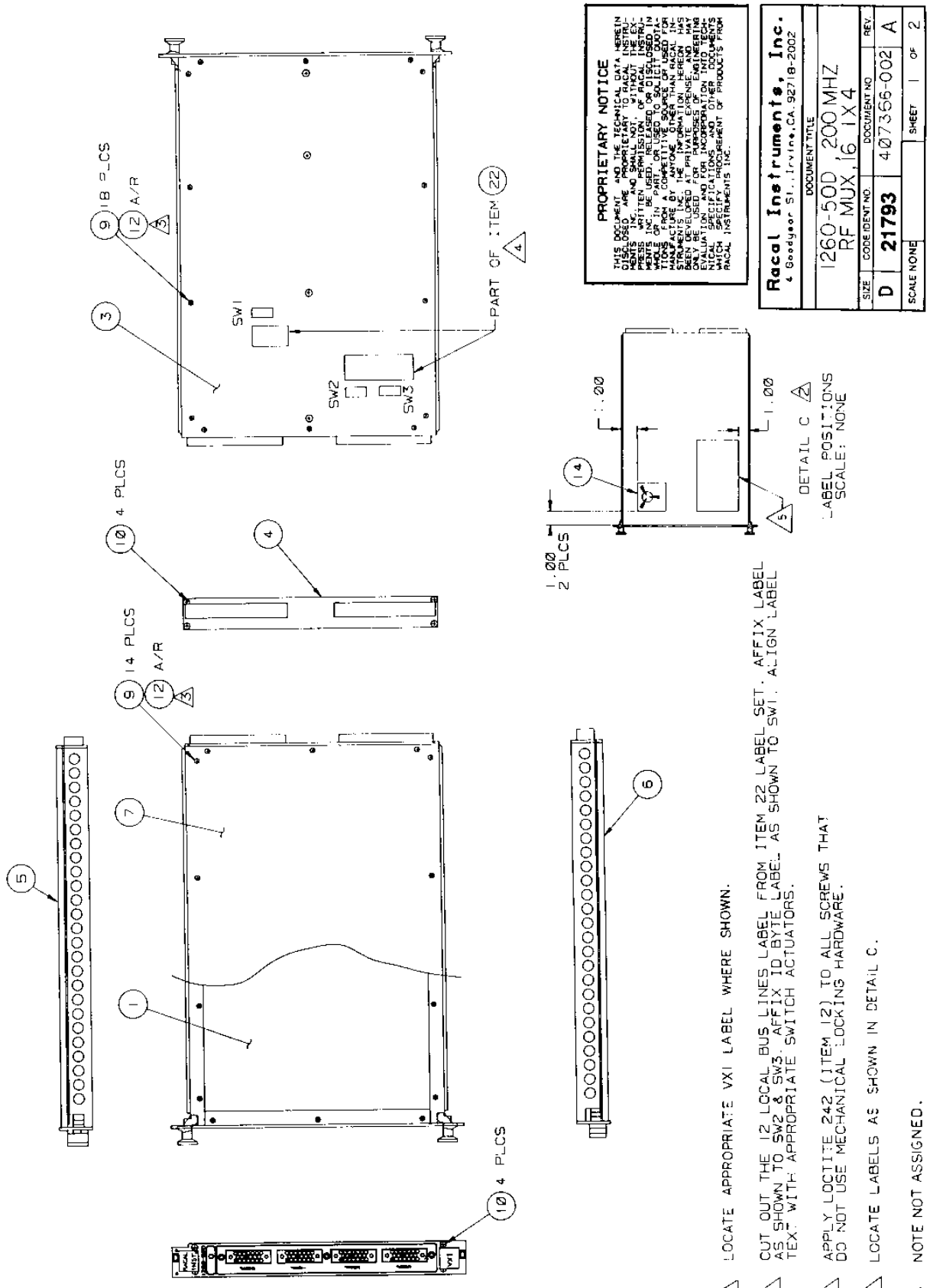
405072-005, PCB Assembly, 1260-50C 4-5

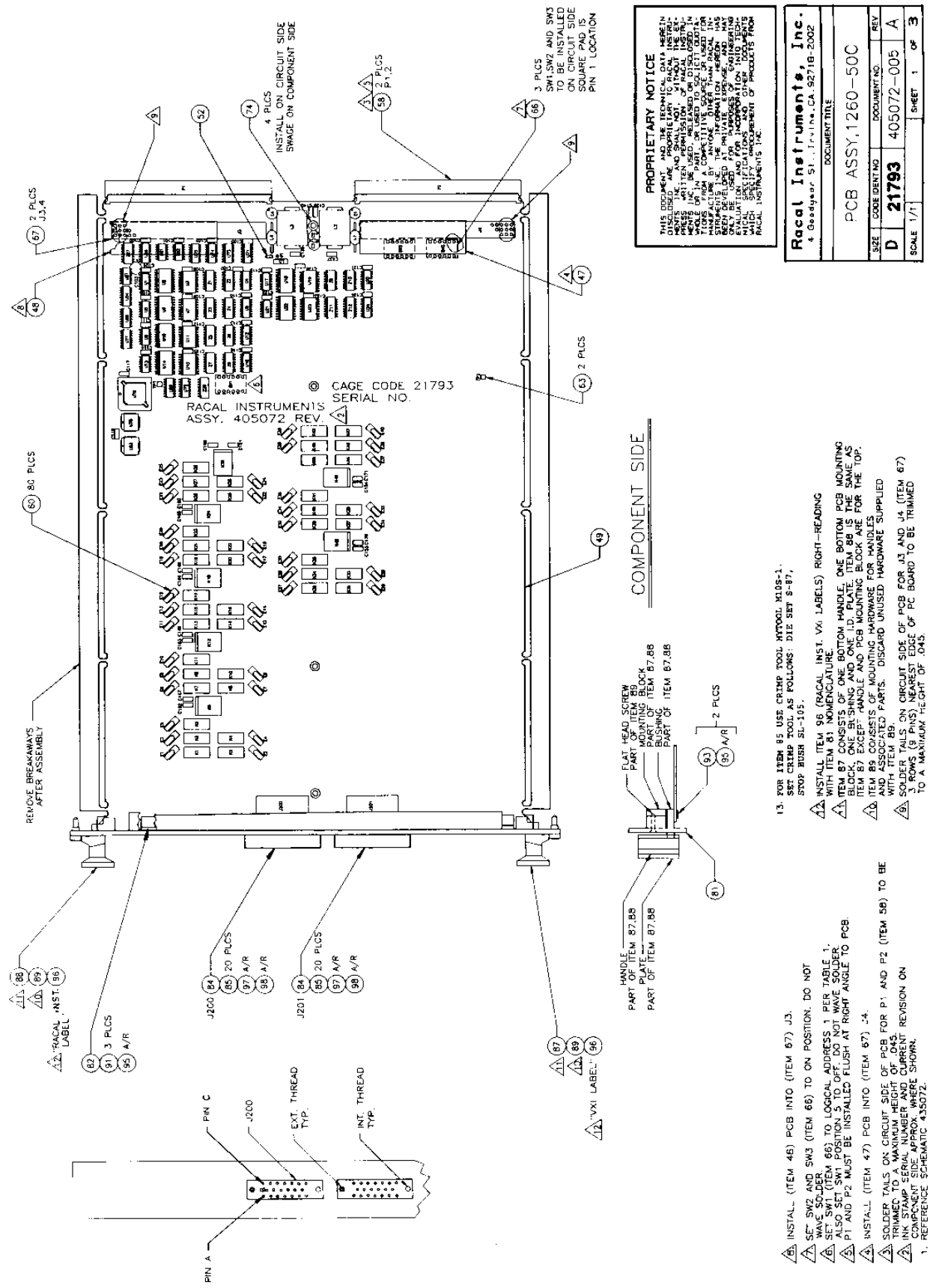
405072-006, PCB Assembly, 1260-50D 4-6

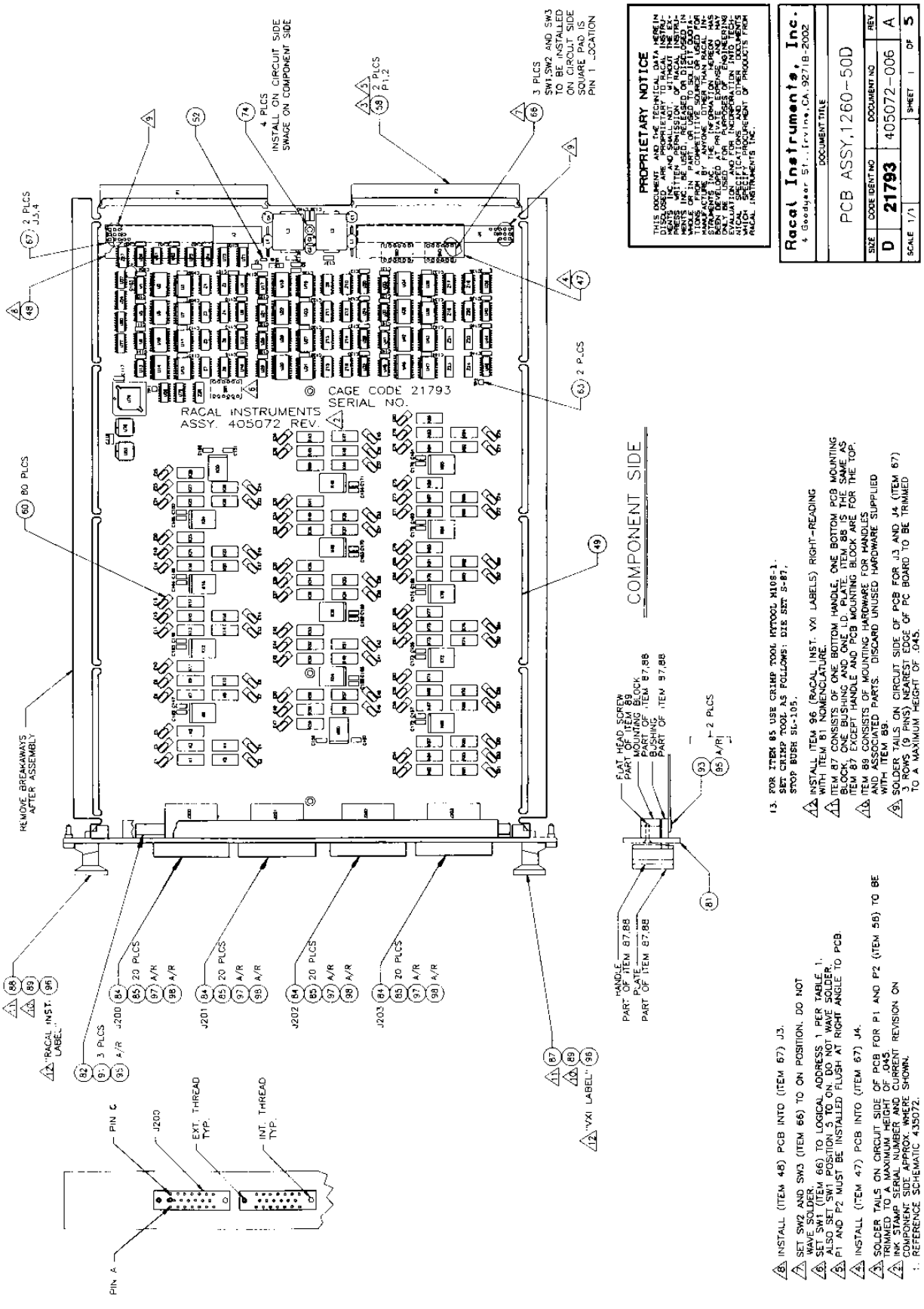
435072, Schematic, 1260-50 4-7

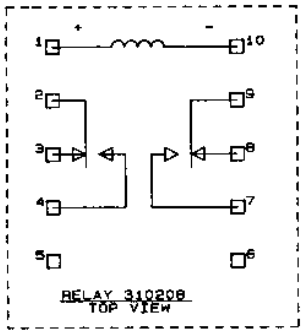
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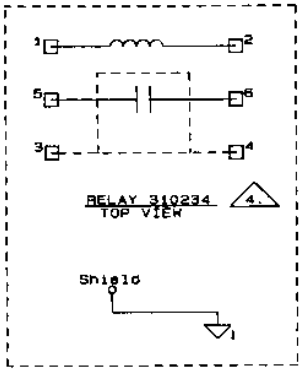

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DOCUMENT TITLE
1260-50C, 200 MHZ RF MUX, 8 1X4
SIZE D
CODE IDENT NO 21793
DOCUMENT NO 407365-001
REV A
SCALE NONE
SHEET 1 OF 2
18 PLCS
12 A/R
3
SW1
SW2
SW3
PART OF ITEM 22
4
10 4 PLCS
4
14 PLCS
12 A/R
7
1
5
10 4 PLCS
6
1.00
1.00
2 PLCS
14
5
DETAIL C
LABEL POSITIONS
SCALE: NONE
5 LOCATE APPROPRIATE VXI LABEL WHERE SHOWN.
4 CUT OUT THE 12 LOCAL BUS LINES LABEL FROM ITEM 22 LABEL SET. AFFIX LABEL AS SHOWN TO SW2 & SW3. AFFIX ID BYTE LABEL AS SHOWN TC SW1. ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
3 APPLY LOCTITE 242 (ITEM 12) TO ALL SCREWS THAT DO NOT USE MECHANICAL LOCKING HARDWARE.
2 LOCATE LABELS AS SHOWN IN DETAIL C.
1. NOTE NOT ASSIGNED.


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DOCUMENT TITLE
1260-50D 200 MHZ RF MUX, 16 1X4
SIZE D
CODE IDENT NO 21793
DOCUMENT NO 407366-002
REV A
SCALE NONE
SHEET 1 OF 2
SW1
SW2
SW3
PART OF ITEM 22
4
9 18 PLCS
12 A/R
3
10 4 PLCS
14 PLCS
7
1
5
6
DETAIL C
5
1.00
2 PLCS
.20
1.00
14
LABEL POSITIONS
SCALE: NONE
5 LOCATE APPROPRIATE VXI LABEL WHERE SHOWN.
4 CUT OUT THE 12 LOCAL BUS LINES LABEL FROM ITEM 22 LABEL SET. AFFIX LABEL AS SHOWN TO SW2 & SW3. AFFIX ID BYTE LABEL AS SHOWN TO SW1. ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.
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2 LOCATE LABELS AS SHOWN IN DETAIL C.
1. NOTE NOT ASSIGNED.


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DOCUMENT TITLE
PCB ASSY,1260-50C
SIZE
CODE IDENT NO
DOCUMENT NO
REV
D
21793
405072-005
A
SCALE 1/1
SHEET 1 OF 3
CAGE CODE 21793
SERIAL NO.
RACAL INSTRUMENTS
ASSY. 405072 REV.
COMPONENT SIDE
REMOVE BREAKAWAYS AFTER ASSEMBLY
RACAL INST. LABEL
VXI LABEL
J200
J201
PIN C
PIN A
EXT. THREAD TYP.
INT. THREAD TYP.
INSTALL ON CIRCUIT SIDE SWAGE ON COMPONENT SIDE
3 PLCS SW1,SW2 AND SW3 TO BE INSTALLED ON CIRCUIT SIDE SQUARE PAD IS PIN 1 LOCATION
2 PLCS J3,4
2 PLCS P1,2
80 PLCS
3 PLCS
20 PLCS
FLAT HEAD SCREW PART OF ITEM 85
MOUNTING BLOCK PART OF ITEM 87,88
BUSHING PART OF ITEM 87,88
HANDLE PART OF ITEM 87,88
PLATE PART OF ITEM 87,88
13. FOR ITEM 85 USE CRIMP TOOL HYTOOL M10S-1.
SET CRIMP TOOL AS FOLLOWS: DIE SET 8-87,
STOP BUSH SL-105.
INSTALL ITEM 96 (RACAL INST. VXI LABELS) RIGHT-READING WITH ITEM 81 NOMENCLATURE.
ITEM 87 CONSISTS OF ONE BOTTOM HANDLE, ONE BOTTOM PCB MOUNTING PLATE. ITEM 88 IS THE SAME AS ITEM 87 EXCEPT ONLY ONE PCB MOUNTING BLOCK ARE FOR THE TOP.
ITEM 89 CONSISTS OF MOUNTING HARDWARE FOR HANDLES
ITEM 85 CONSISTS OF PARTS. DISCARD UNUSED HARDWARE SUPPLIED WITH ITEM 85.
SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR J3 AND J4 (ITEM 67) 3 ROWS (9 PINS) NEAREST EDGE OF PC BOARD TO BE TRIMMED TO A MAXIMUM HEIGHT OF .045.
INSTALL (ITEM 46) PCB INTO (ITEM 67) J3.
SET SW2 AND SW3 (ITEM 66) TO ON POSITION. DO NOT WAVE SOLDER.
SET SW1 (ITEM 66) TO LOGICAL ADDRESS 1 PER TABLE 1. ALSO SET SW1 POSITION 5 TO OFF. DO NOT WAVE SOLDER.
P1 AND P2 MUST BE INSTALLED FLUSH AT RIGHT ANGLE TO PCB
INSTALL (ITEM 47) PCB INTO (ITEM 67) J4.
SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR P1 AND P2 (ITEM 58) TO BE TRIMMED TO A MAXIMUM HEIGHT OF .045
INK STAMP SERIAL NUMBER AND CURRENT REVISION ON COMPONENT SIDE APPROXIMATE AREA SHOWN.
1. REFERENCE SCHEMATIC 435072.

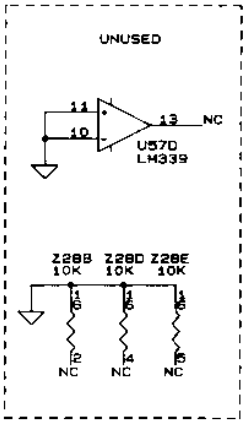

PROPRIETARY NOTICE
Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002
DOCUMENT TITLE
PCB ASSY,1260-50D
SIZE
CODE IDENT NO
DOCUMENT NO
REV
D
21793
405072-006
A
SCALE 1/1
SHEET 1 OF 5
CAGE CODE 21793
SERIAL NO.
RACAL INSTRUMENTS
ASSY. 405072 REV.
COMPONENT SIDE
REMOVE BREAKAWAYS AFTER ASSEMBLY
INSTALL ON CIRCUIT SIDE SMAGE ON COMPONENT SIDE
SW1,SW2 AND SW3 TO BE INSTALLED ON CIRCUIT SIDE SQUARE PAD IS PIN 1 LOCATION
RACAL INST. LABEL
"VXI LABEL"
J200
J201
J202
J203
PIN A
PIN C
EXT. THREAD TYP.
INT. THREAD TYP.
FLAT HEAD SCREW PART OF ITEM 89
MOUNTING BLOCK PART OF ITEM 87,88
BUSHING PART OF ITEM 87,88
HANDLE PART OF ITEM 87,88
PLATE PART OF ITEM 87,88
13. FOR ITEM 85 USE CRIMP TOOL M1900-1.
SET CRIMP TOOL AS FOLLOWS: DIE SET 5-87,
STOP BUSH 51-105.
INSTALL (ITEM 48) PCB INTO (ITEM 67) J3.
SET SW2 AND SW3 (ITEM 66) TO ON POSITION. DO NOT WAVE SOLDER.
SET SW1 (ITEM 66) TO LOGICAL ADDRESS 1 PER TABLE 1.
ALSO SET SW1 POSITION 5 TO ON. DO NOT WAVE SOLDER.
P1 AND P2 MUST BE INSTALLED FLUSH AT RIGHT ANGLE TO PCB.
INSTALL (ITEM 47) PCB INTO (ITEM 67) J4.
SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR P1 AND P2 (ITEM 56) TO BE TRIMMED TO A MAXIMUM HEIGHT OF .045.
INK STAMP SERIAL NUMBER AND CURRENT REVISION ON COMPONENT SIDE APPROX. WHERE SHOWN.
REFERENCE SCHEMATIC 435072.
INSTALL ITEM 96 (RACAL INST. VXI LABELS) RIGHT-READING WITH ITEM 81 NOMENCLATURE.
ITEM 87 CONSISTS OF ONE BOTTOM HANDLE, ONE BOTTOM PCB MOUNTING BLOCK, ONE BUSHING AND ONE L.D. PLATE. ITEM 88 IS THE SAME AS ITEM 87 EXCEPT HANDLE AND PCB MOUNTING BLOCK ARE FOR THE TOP.
ITEM 89 CONSISTS OF MOUNTING HARDWARE FOR HANDLES AND ASSOCIATED PARTS. DISCARD UNUSED HARDWARE SUPPLIED WITH ITEM 89.
SOLDER TAILS ON CIRCUIT SIDE OF PCB FOR J3 AND J4 (ITEM 67) 3 ROWS (9 PINS) NEAREST EDGE OF PC BOARD TO BE TRIMMED TO A MAXIMUM HEIGHT OF .045.





U76	231154 (22V10H)	28	14
U75	26LS31	16	8
U73, 74	26LS32	16	8
U71, 72, 77	74HCT253	16	8
U70	231152-001 (16L8Q)	20	10
U57	LM339	3	12
U56	74HCT85	16	8
U54, 55	74LS138	16	8
U53	231153 (18R4)	20	10
U4, 8, 12, 16, 20, 24, 28 U32, 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, 29, U33, 37, 41, 45, 61, 62	74HCT164	14	7
REF. DES.	IC TYPE	+5V PIN NO.	GND PIN NO.
IC POWER AND GROUND CONNECTIONS			

Z28
W1
U77
TP2
SW3
P2
L5
K87
J203
E80
C176
HIGHEST REF. DES.



6. PARTS INSTALLED FOR 405072-002 ONLY.
PARTS NOT INSTALLED FOR 405072-001.

5. C5 AND C6 ARE NOT INSTALLED.

4. RELAYS RACAL P/N 310234.
RELAYS ELECTROSTATIC SHIELDS (PIN 3, 4) TIED TO SIGNAL GROUND. ⏚1

3. ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.

2. RESISTOR NETWORKS ARE IN OHMS, +/-2%.

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

NOTES: UNLESS OTHERWISE SPECIFIED

PROPRIETARY NOTICE

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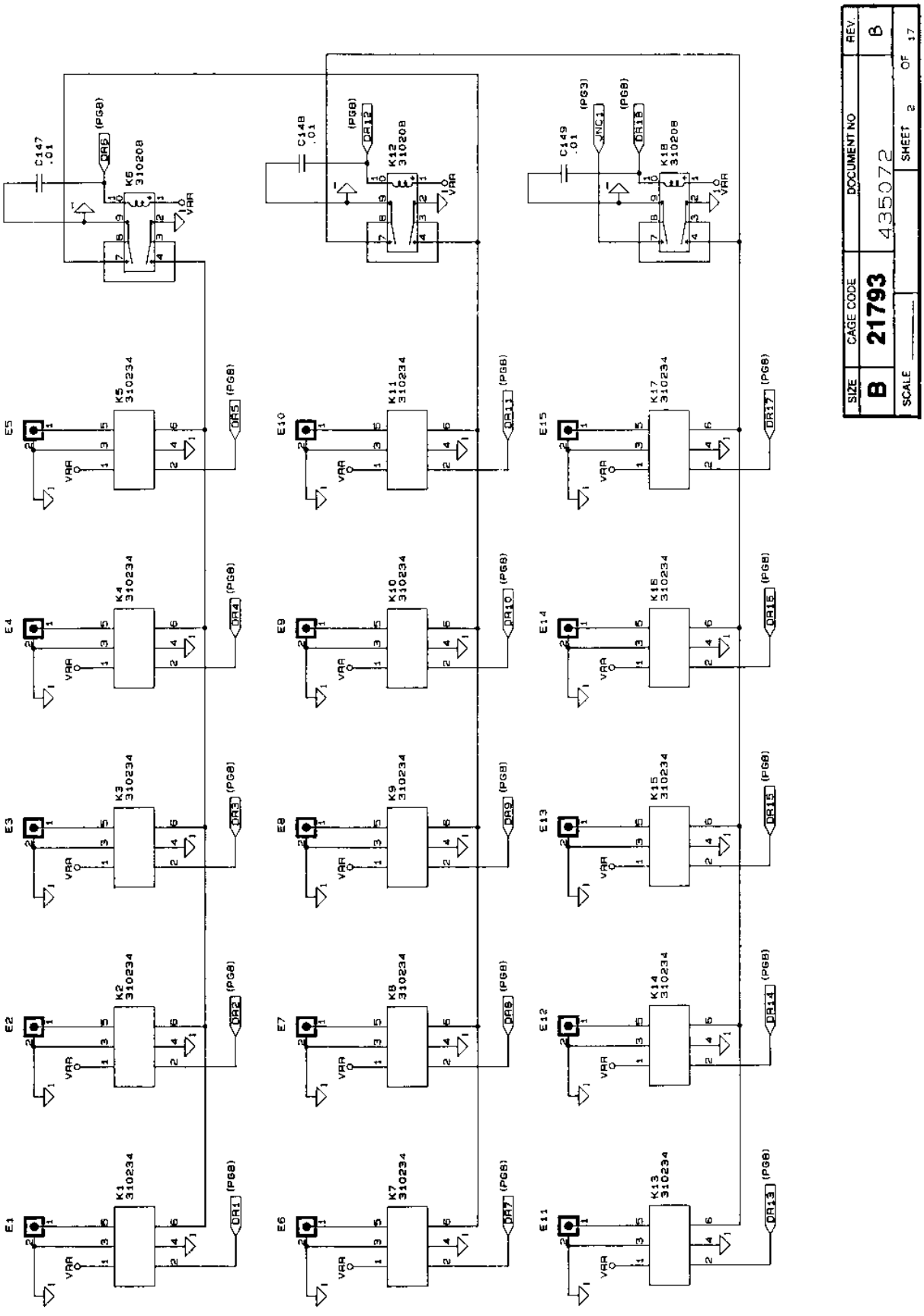
Racal Instruments, Inc.
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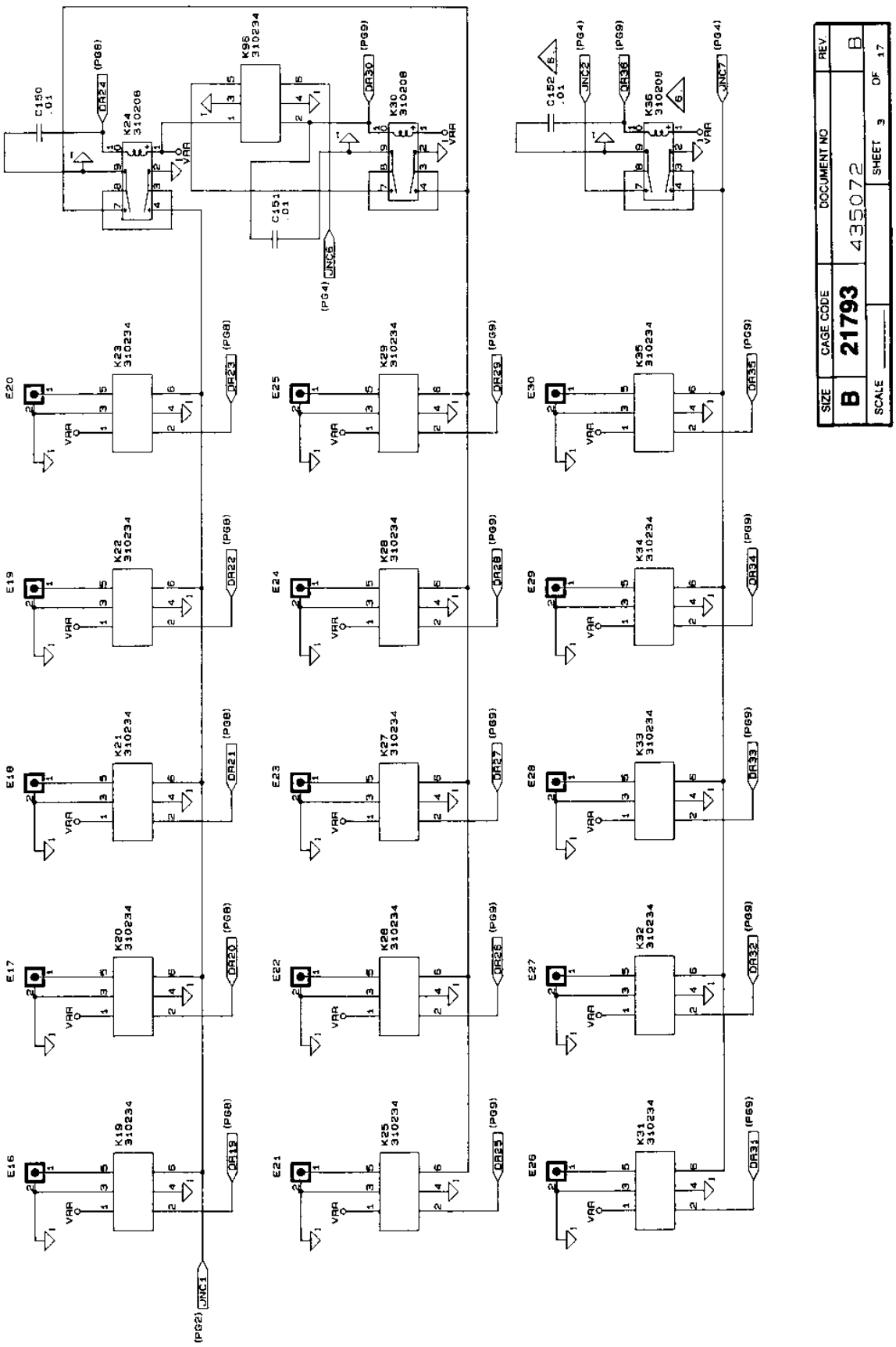
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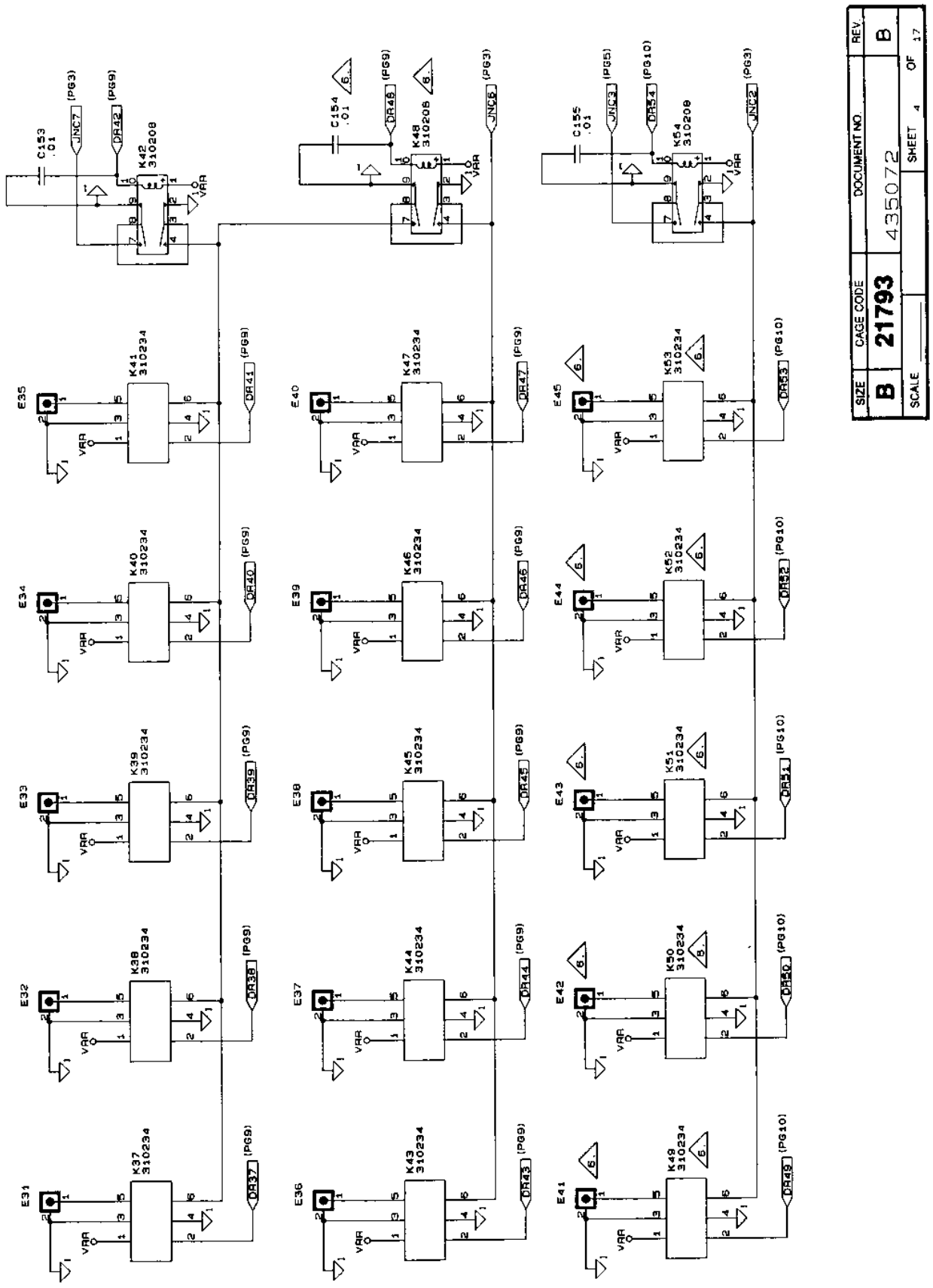
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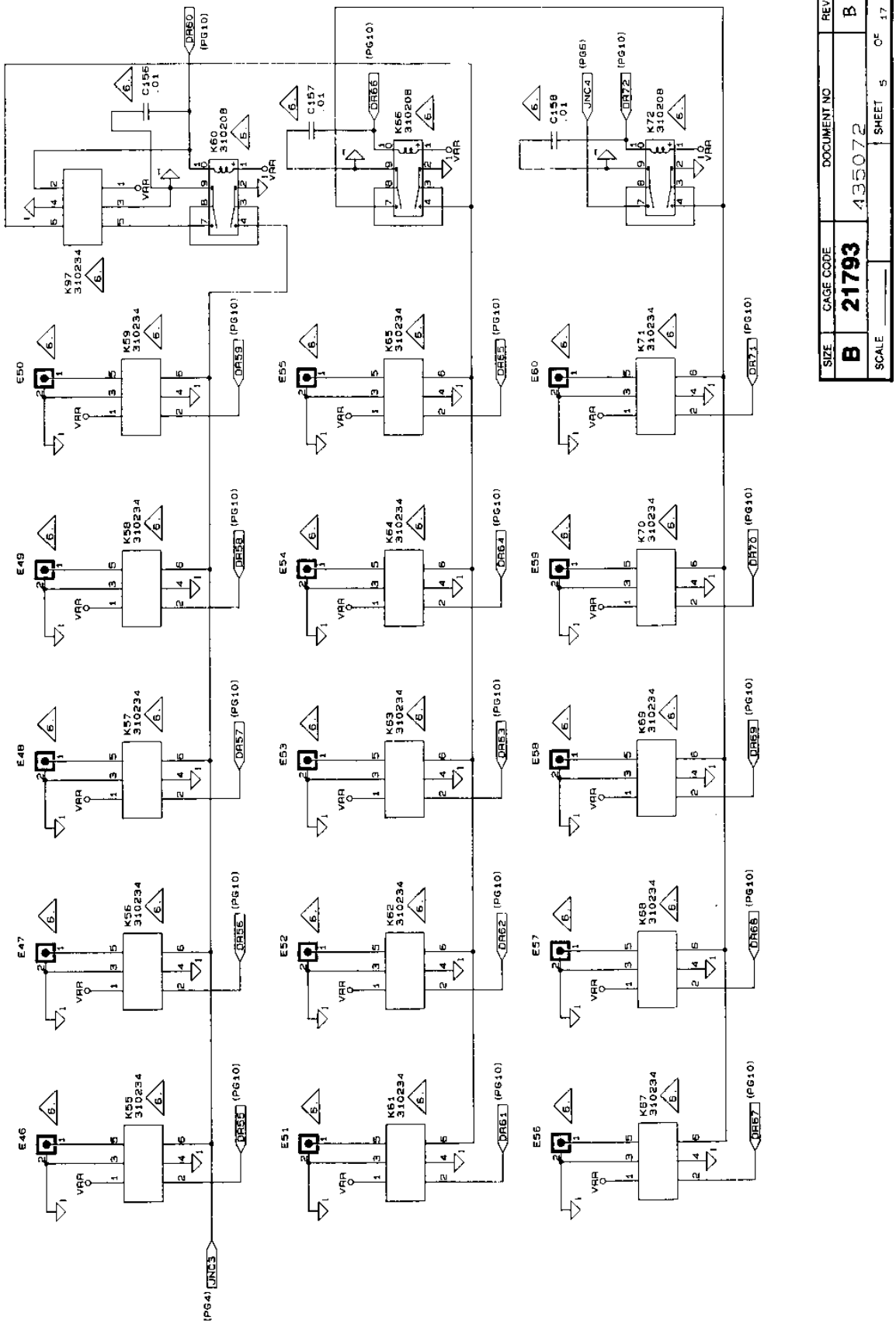
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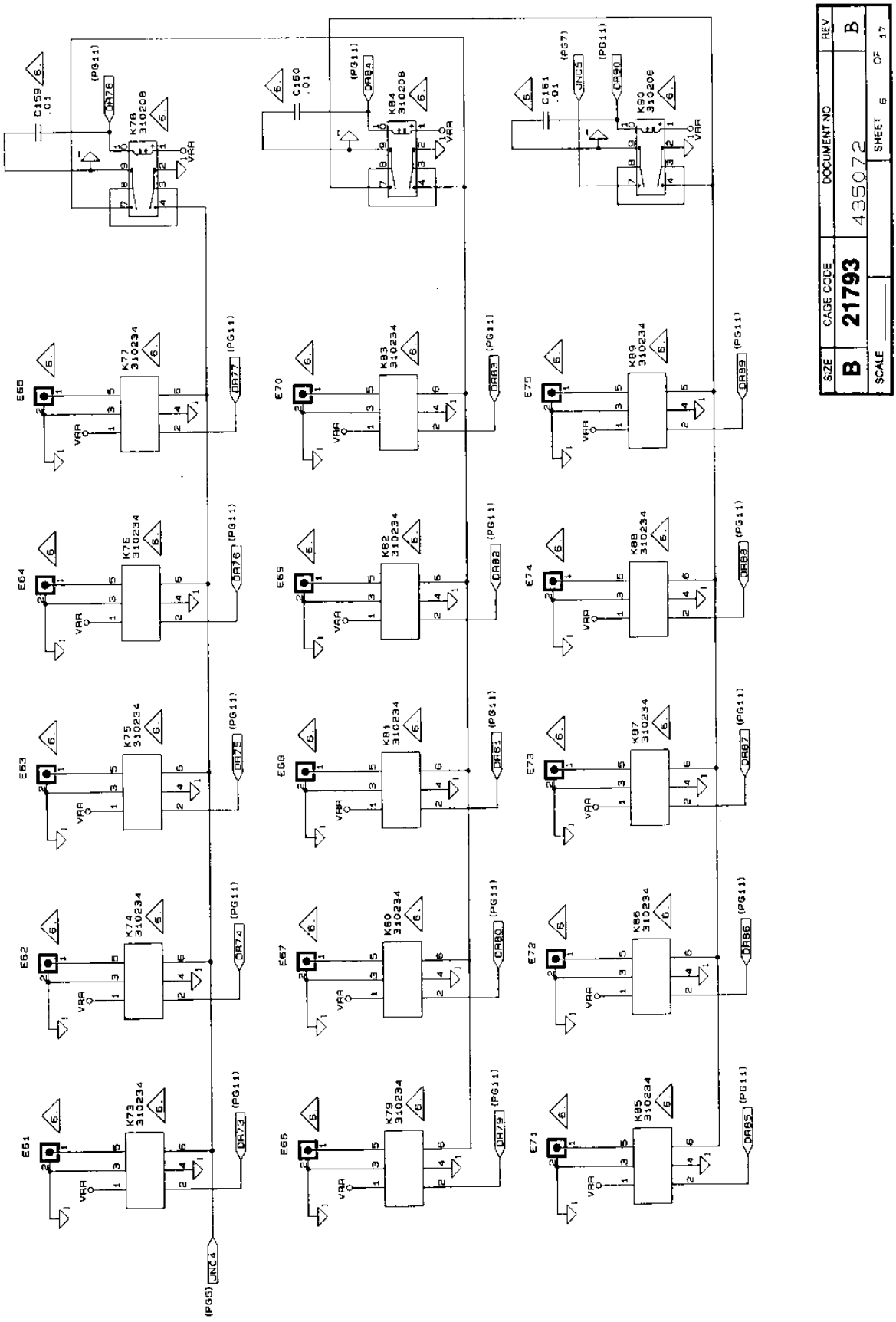
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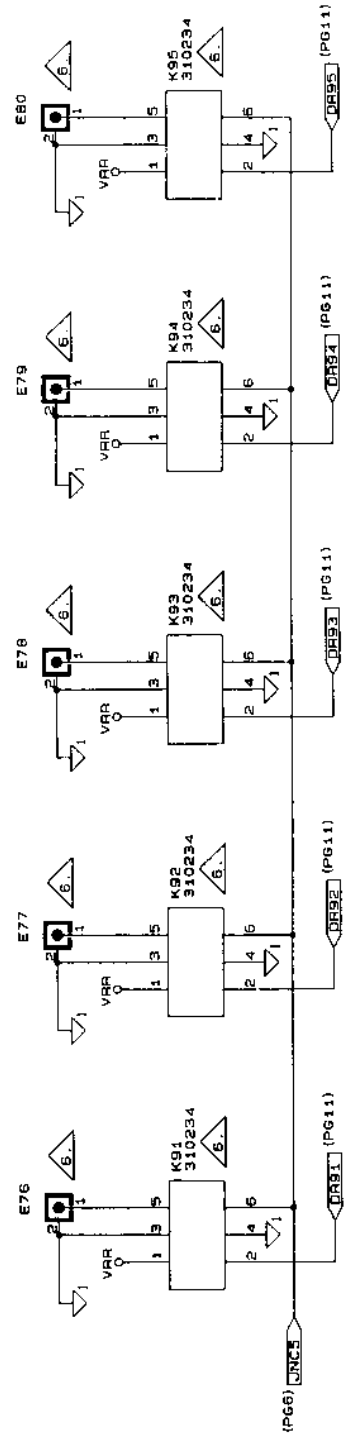

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DOCUMENT NO
435072
REV.
B
SCALE
SHEET 2 OF 17


SIZE
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DOCUMENT NO
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21793
435072
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SHEET 3 OF 17

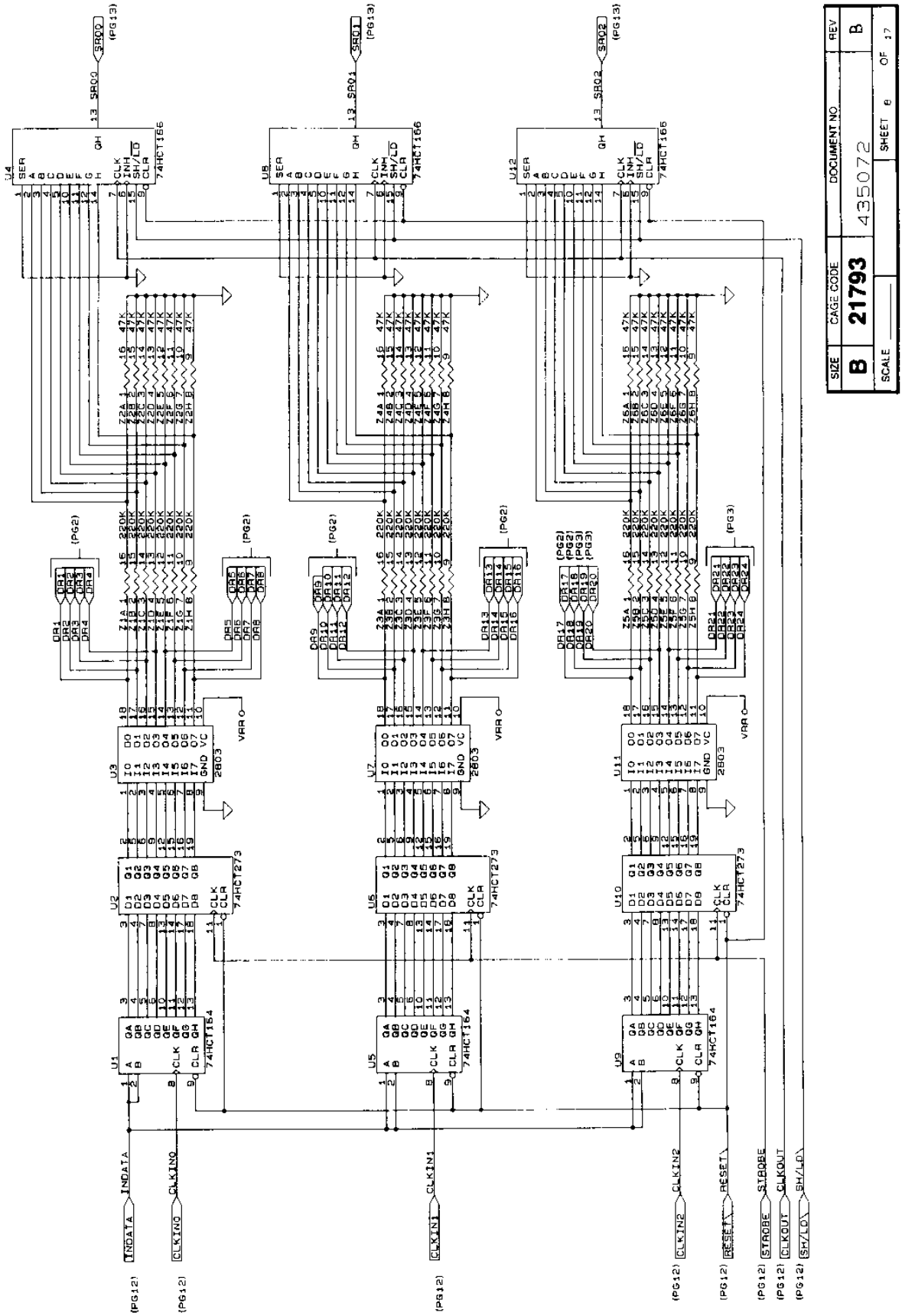

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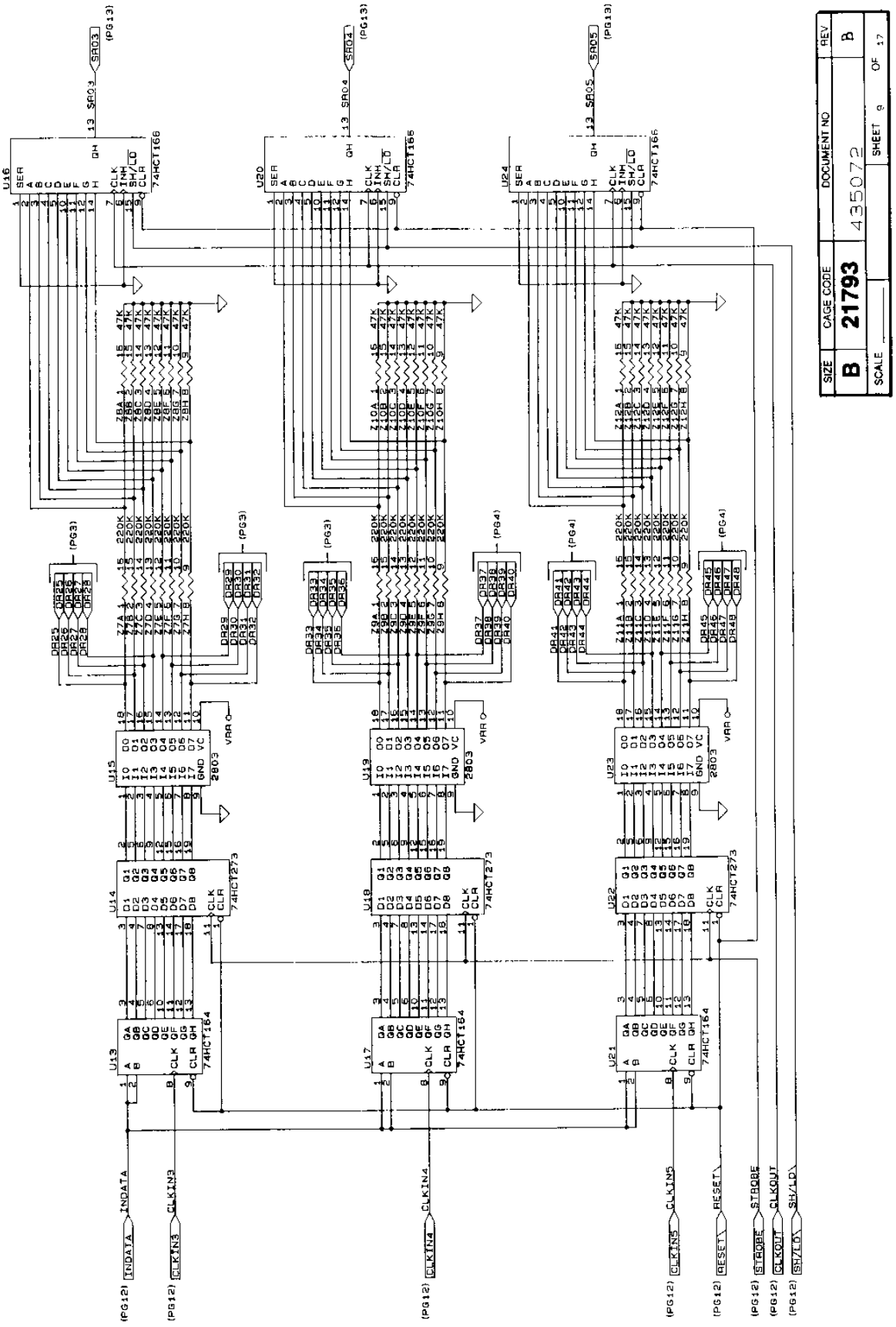

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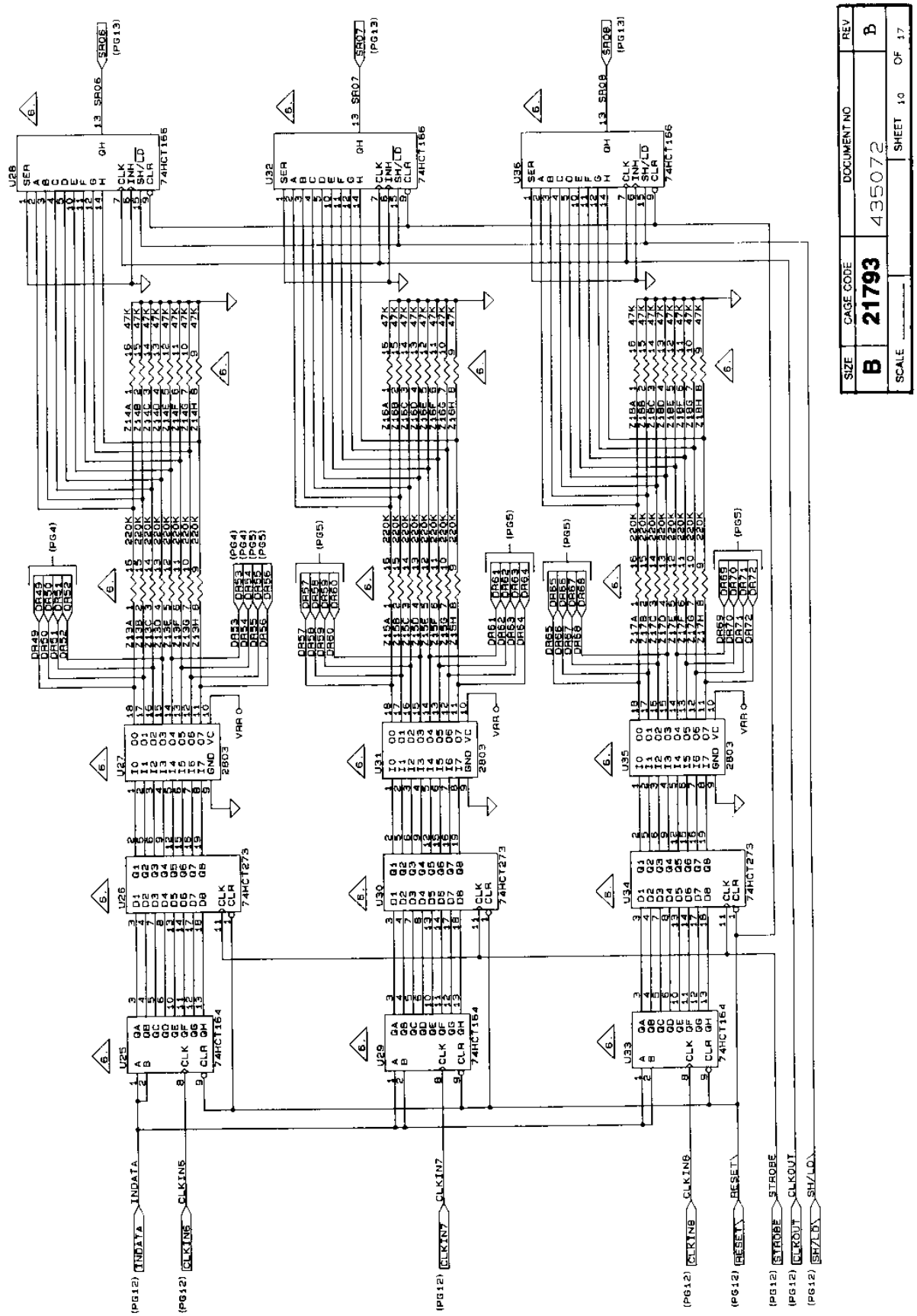

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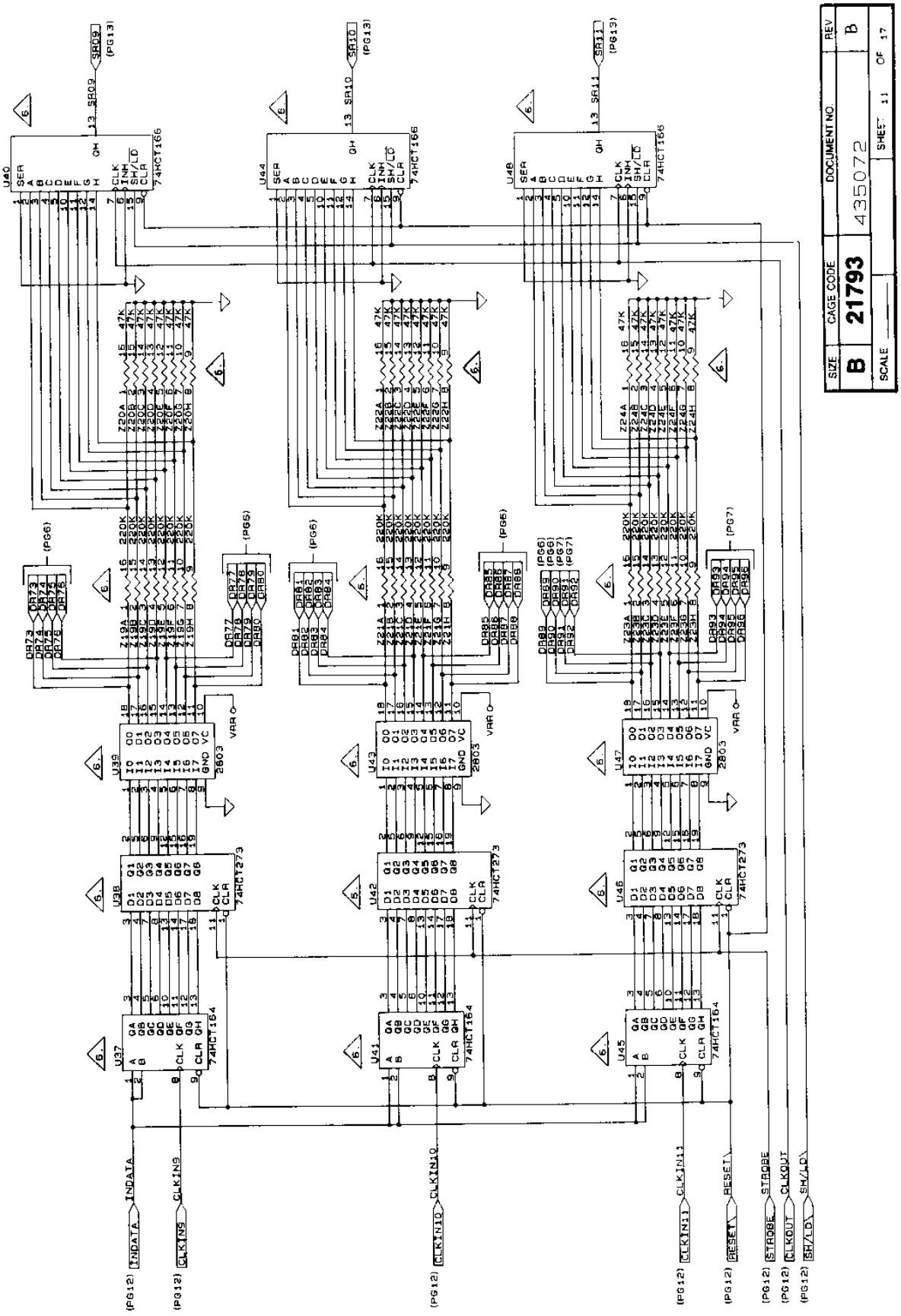


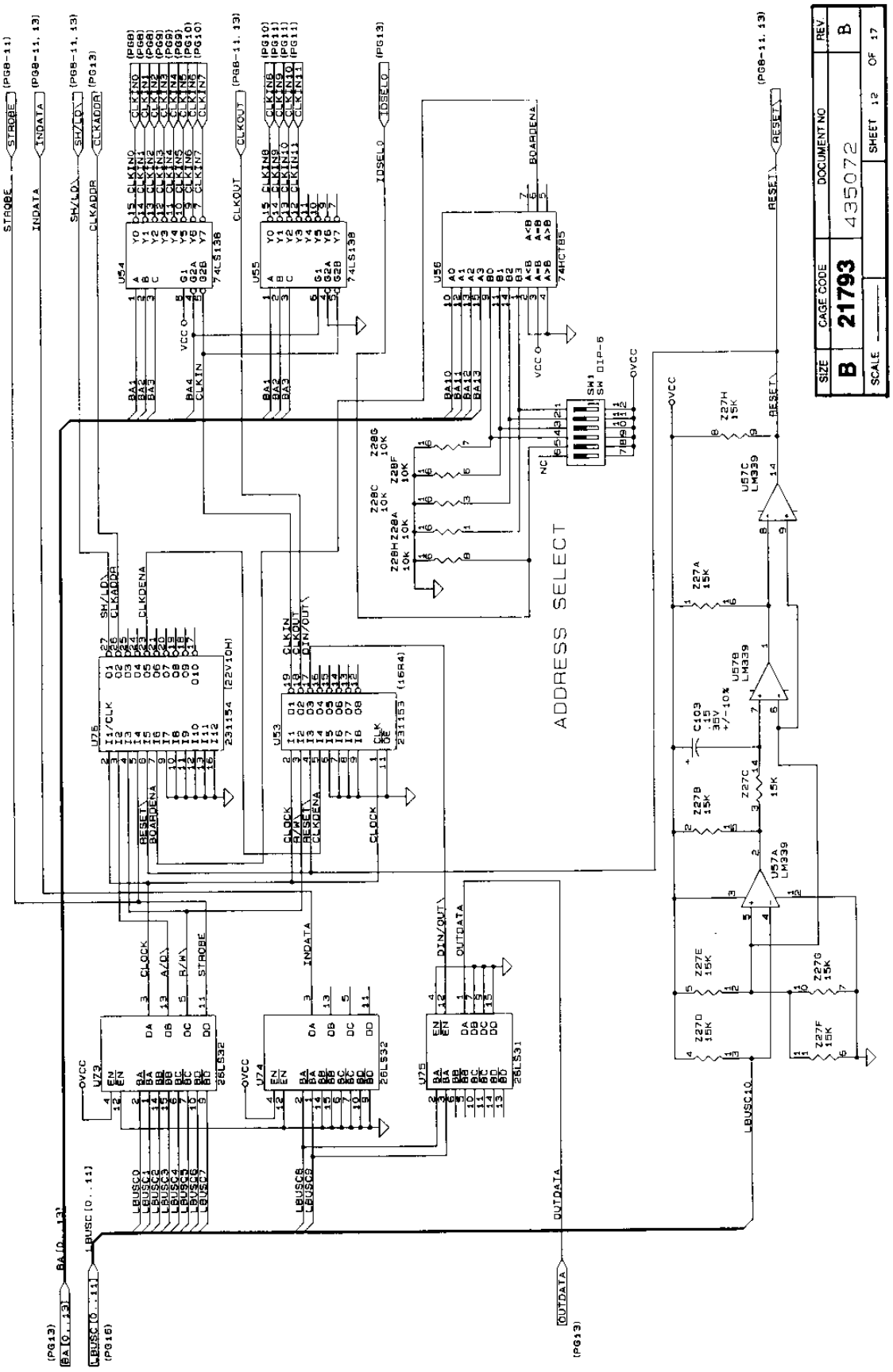
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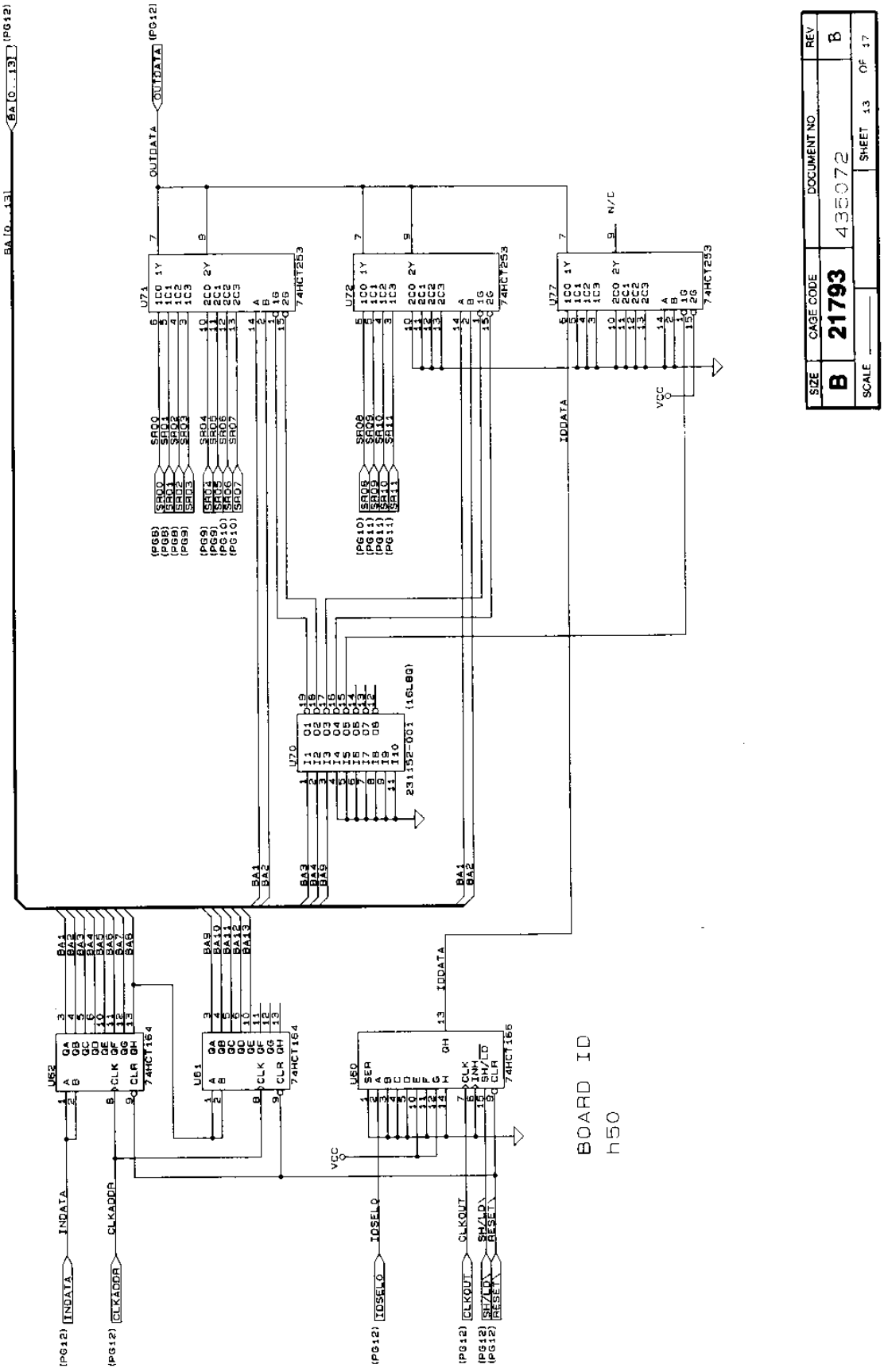

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DOCUMENT NO.
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SHEET 8 OF 17
INDATA
CLKIN0
CLKIN1
CLKIN2
RESET
STROBE
CLKOUT
SH/LD

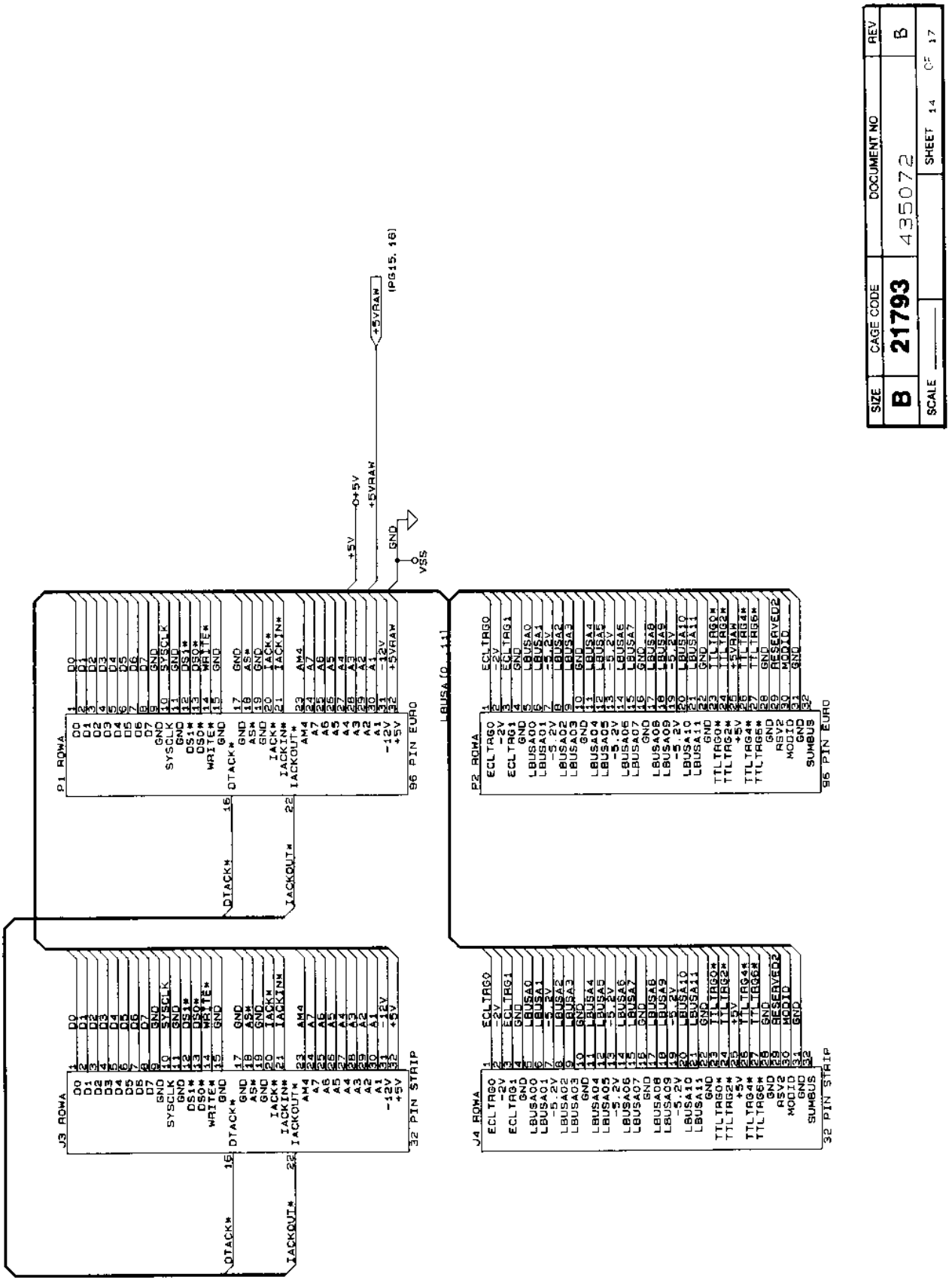

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21793
DOCUMENT NO
435072
REV
B
SCALE
SHEET 9 OF 17
74HCT166
74HCT273
74HCT164
2803
INDATA
CLKIN3
CLKIN4
CLKIN5
RESET
STROBE
CLKOUT
SH/LD

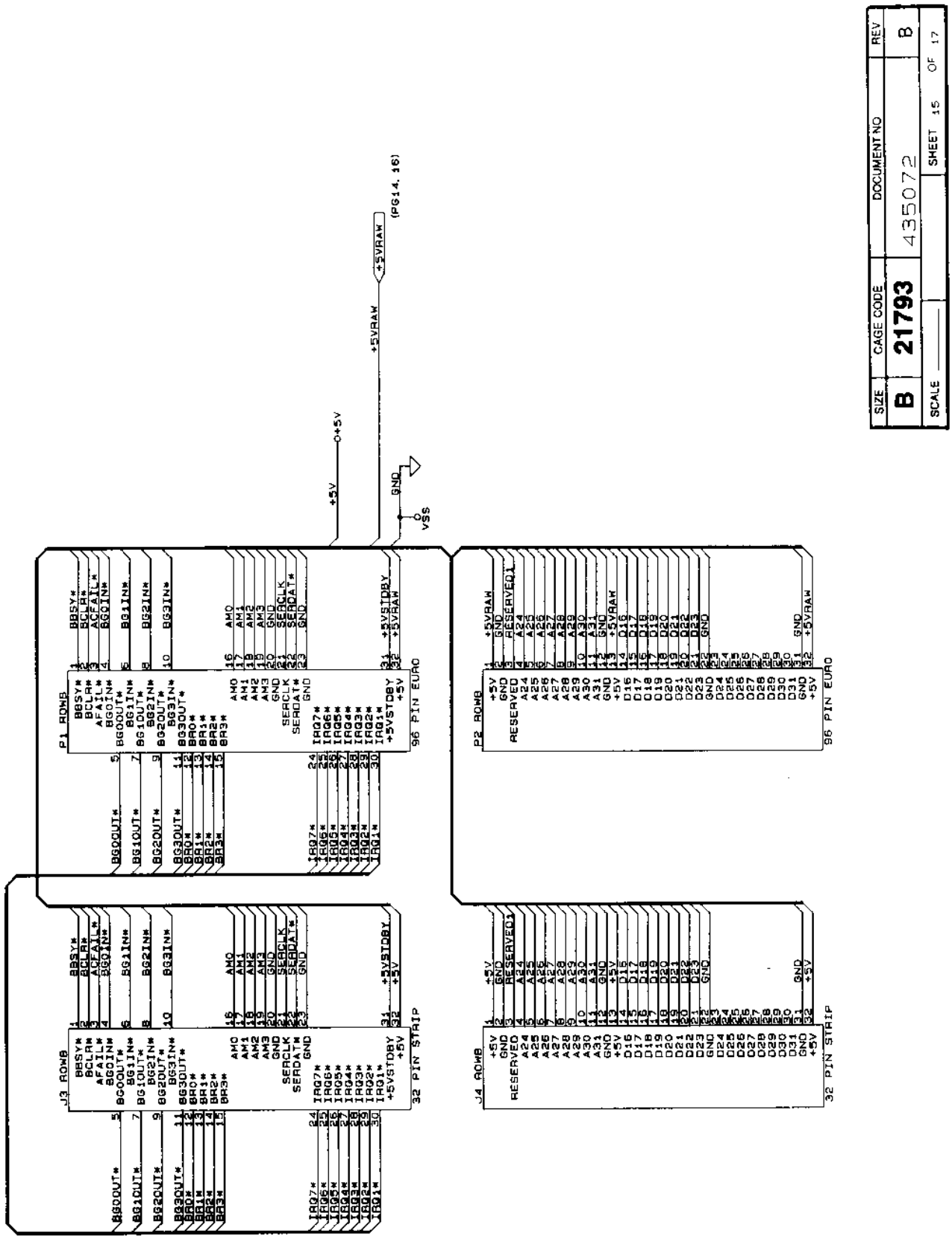

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21793
DOCUMENT NO
435072
REV
B
SCALE
SHEET 10 OF 17
INDATA
CLKIN6
CLKIN7
CLKIN8
RESET
STROBE
CLKOUT
SH/LD

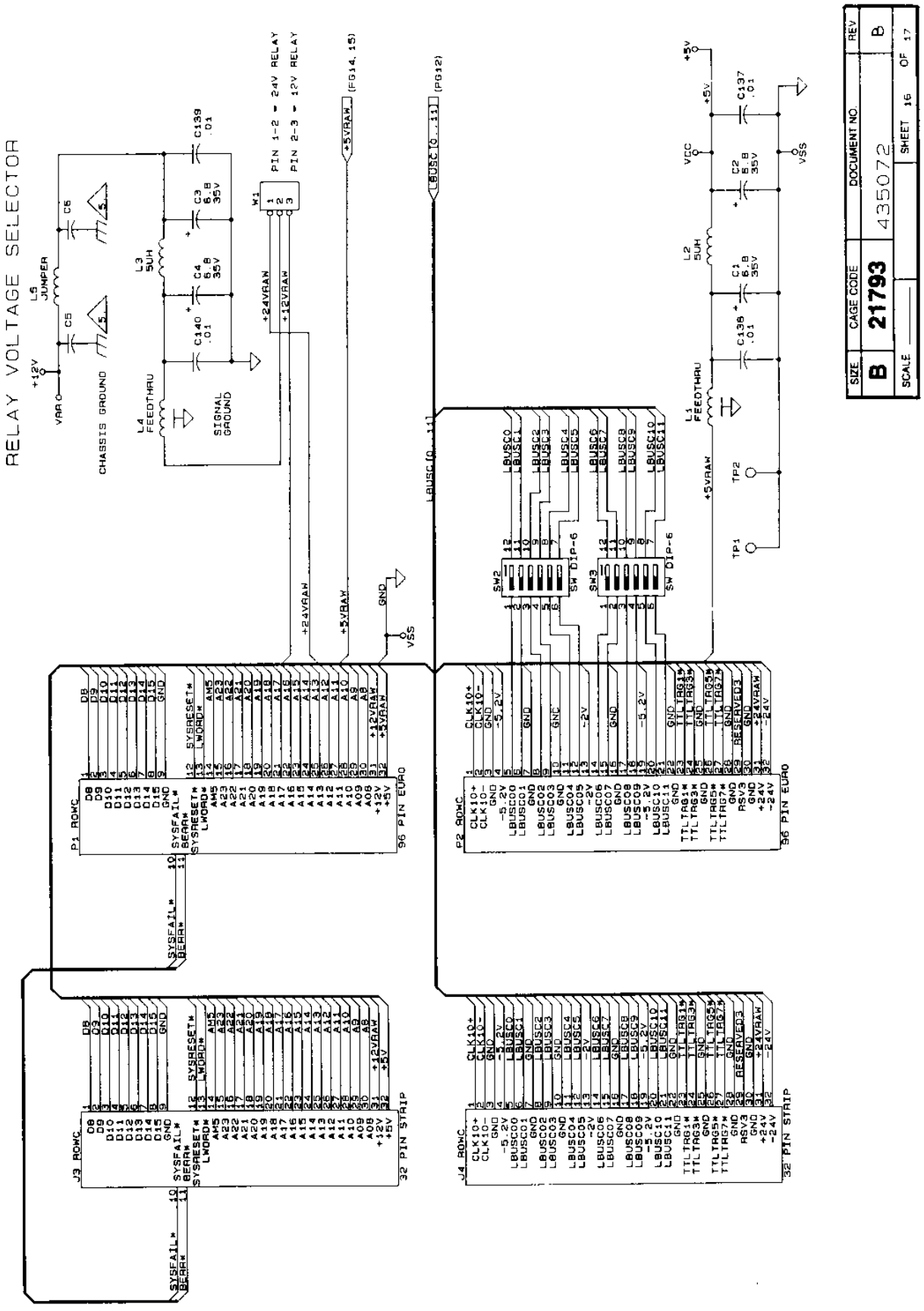

SIZE
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DOCUMENT NO.
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REV
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SCALE
SHEET 11 OF 17
74HCT166
74HCT273
74HCT164
2803
220K
47K
INDATA
CLKIN9
CLKIN10
CLKIN11
RESET
STROBE
CLKOUT
SH/LD

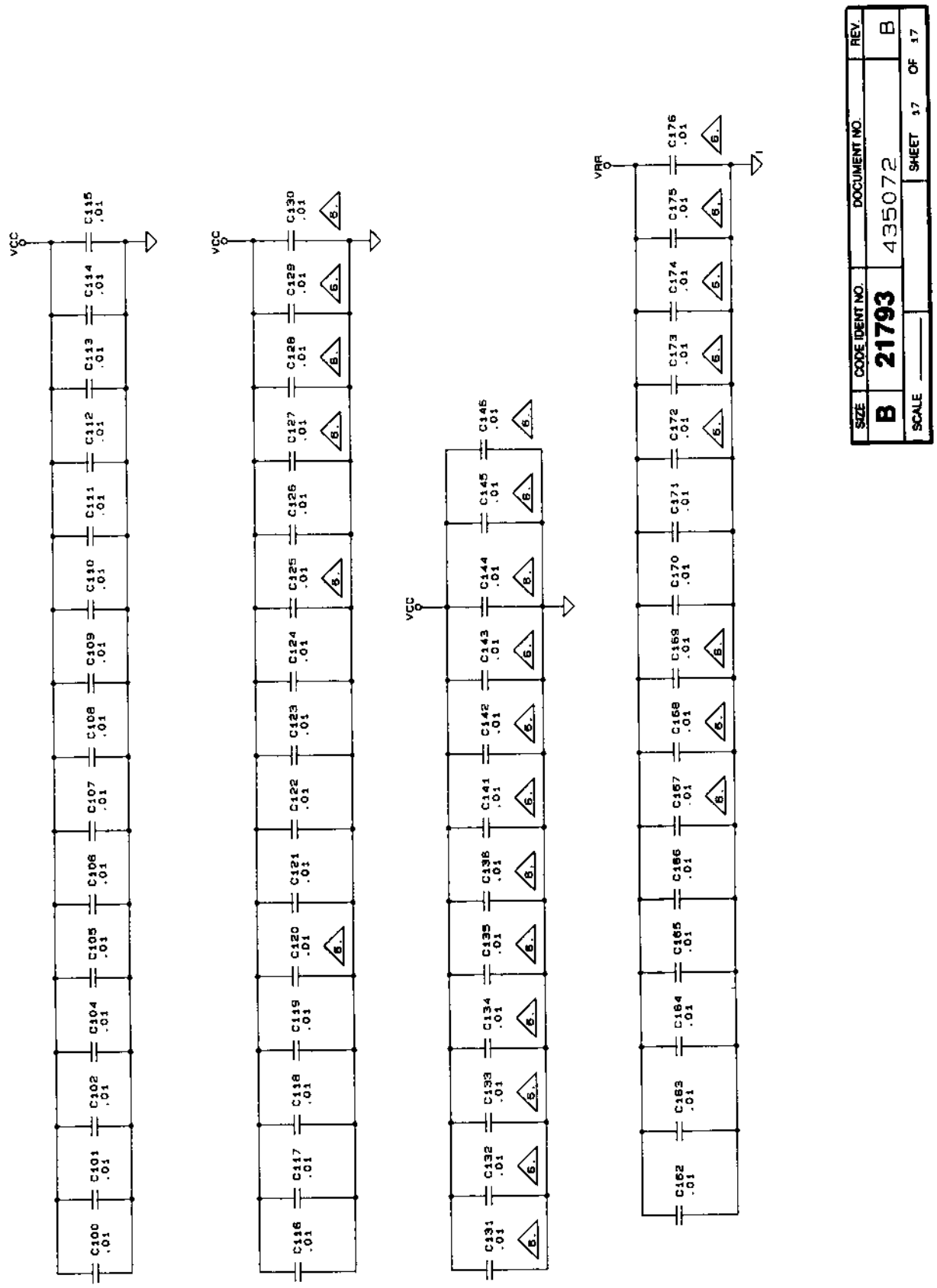

ADDRESS SELECT
SIZE
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21793
DOCUMENT NO
435072
REV.
B
SCALE
SHEET 12 OF 17


BA[0..13]
OUTDATA
SIZE B
CAGE CODE 21793
DOCUMENT NO 43072
REV B
SHEET 13 OF 17
SCALE
BOARD ID
h50
INDATA
CLKADDR
IOSEL0
CLKOUT
SH/LD
RESET
IODATA
VCC
74HCT253
74HCT164
74HCT166
231152-001 (16L8Q)


P1 ROWA
P2 ROWA
J3 ROWA
J4 ROWA
96 PIN EURO
32 PIN STRIP
+5V
+5VRAW
GND
VSS
(PG15, 16)
LBUSA(0..11)
SIZE
CAGE CODE
DOCUMENT NO
REV
B
21793
435072
B
SCALE
SHEET 14 OF 17


SIZE
B
CAGE CODE
21793
DOCUMENT NO
435072
REV
B
SCALE
SHEET 15 OF 17
+5V
+5VRAW
(PG14, 16)
GND
VSS
P1 ROW8
P2 ROW8
J3 ROW8
J4 ROW8
96 PIN EURO
32 PIN STRIP


RELAY VOLTAGE SELECTOR
SIZE
B
CAGE CODE
21793
DOCUMENT NO
435072
REV
B
SCALE
SHEET 16 OF 17
P1 ROWC
P2 ROWC
J3 ROWC
J4 ROWC
96 PIN EURO
32 PIN STRIP
SW DIP-6
+12V
+5V
+24VRAW
+12VRAW
+5VRAW
-5.2V
-2V
-24V
GND
VSS
VCC
L1 FEEDTHRU
L2 5UH
L3 5UH
L4 FEEDTHRU
L5 JUMPER
C1 6.8 35V
C2 6.8 35V
C3 6.8 35V
C4 6.8 35V
C5
C6
C137 .01
C138 .01
C139 .01
C140 .01
W1
PIN 1-2 = 24V RELAY
PIN 2-3 = 12V RELAY
CHASSIS GROUND
SIGNAL GROUND
TP1
TP2
LBUSC[0..11]
(PG12)
(PG14, 15)


VCC
VCC
VCC
VRR
SIZE
CODE IDENT NO.
DOCUMENT NO.
REV.
B
21793
435072
B
SCALE
SHEET 17 OF 17

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Chapter 5
PARTS LIST

407366-001, Final Assembly, 1260-50C 5-3
407366-002, Final Assembly, 1260-50D 5-3
405072-005, PCB Assembly, 1260-50C 5-4
405072-006, PCB Assembly, 1260-50D 5-6
407367-001, Shipping Kit, 1260-50C 5-9
407367-002, Shipping Kit, 1260-50D 5-9
List of Suppliers 5-10

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407366-001 - 1260-50C, 200 MHZ RF MUX, 8 1X4

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	405072-005	PCB ASSY, 1260-50C	21793	405074-005
{3}1	455779-003	PANEL, SIDE, LEFT	21793	455779-003
{4}1	455781	PANEL, REAR, SINGLE	21793	455781
{5}1	455784-001	PANEL, VXI TOP	21793	455784-001
{6}1	455784-002	PANEL, VXI BOTTOM	21793	455784-002
{7}1	455901	PANEL, RIGHT SIDE	21793	455901
{9}32	615539	SCREW, PFH, 4-40X. 125	-	-
{10}8	616480	SCREW, PFH, 4-40 X .375	-	-
{12}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{14}1	921059	LABEL, CAUTION, STATIC	21793	921059
{22}1	921309	LABEL, VXI SWITCH ID	21793	921309
{23}1	407367-001	SHIP KIT, 1260-50C	21793	407367-001

407366-002 - 1260-50D, 200 MHZ RF MUX, 16 1X4

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	405072-006	PCB ASSY, 1260-50D	21793	405072-006
{3}1	455779-003	PANEL, SIDE, LEFT	21793	455779-003
{4}1	455781	PANEL, REAR, SINGLE	21793	455781
{5}1	455784-001	PANEL, VXI TOP	21793	455784-001
{6}1	455784-002	PANEL, VXI BOTTOM	21793	455784-002
{7}1	455901	PANEL, RIGHT SIDE	21793	455901
{9}32	615539	SCREW, PFH, 4-40X. 125	-	-
{10}8	616480	SCREW, PFH, 4-40 X .375	-	-
{12}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{14}1	921059	LABEL, CAUTION, STATIC	21793	921059
{22}1	921309	LABEL, VXI SWITCH ID	21793	921309
{24}1	407367-002	SHIPPING KIT, 1260-50D	21793	407367-002

405072-005 - PCB ASSY., 1260-50C

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-C4	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C100-C102	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C103	110165	CAP, TANTA, .15 MF, 35V, 10PCT	05397	T355A154K035AS
C104-C119	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C121-C124	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C126	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C147-C151	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C153	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C154	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C162-C166	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C170	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C171	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	602221-020	CONNECTOR,COAXIAL,RECEPT 20 POSITION,3 ROW	09922	MSD20RM-58
J201	602221-020	CONNECTOR,COAXIAL,RECEPT 20 POSITION,3 ROW	09922	MSD20RM-58
K1-K5	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K6	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K7-K11	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K12	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K13-K17	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K18	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K19-K23	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K24	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K25-K29	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K30	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K31-K35	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K37-K41	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K42	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K43-K47	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K48	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K96	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
L1	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L2	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L3	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L4	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L5	600245	JUMPER, INSULATED	52210	L-2007-1
P1	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
P2	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
SW1-SW3	601969	SWITCH, DIP 6 POS, LOW PROFILE	65832	K406S
TP1	601197	POST, TEST, .025 SQ	00779	6-87022-6
TP2	601197	POST, TEST, .025 SQ	00779	6-87022-6
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

405072-005 - PCB ASSY., 1260-50C

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
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
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	231152-001	IC, DIGITAL 16L8, PAL	21793	231152-001
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
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
Z27	080114	RES NETWORK, 16P8R, 15K	73138	628-AL-153J
Z28	080120	RES NETWORK, 10K	11236	767-161R10K
(47)1	401951	PCB ASSY., LBUS JUMPER	21793	401951
(48)1	401951-003	PCB ASSY., P3 JUMPER	21793	401951-003
(49)1	415072-002	PCB, 1260-50 (UNLOADED)	21793	415072-002
(52)A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
(53)A/R	500009	TUBING, SHRINK,. 12 ID, BLK	29005	RNF-100-1-1/8
(60)40	455520	COAX TERMINAL, PCB MOUNT	21793	455520
(61)A/R	500254	CABLE, COAXIAL, 50 OHM	92194	9178B
(62)A/R	610777	CABLE TIE	16956	08-432
(74)4	611258-001	STANDOFF, SWAGE 4-40 X .170	06540	8091-11B-B-440-28
(81)1	456123-003	PANEL, FRONT, 1260-50C	21793	456123-003
(82)1	456124	BRACKET, CONNECTOR MOUNTING	21793	456124
(85)40	602221-901	CONNECTOR, SUBMIN COAX, RECEPT 1 COND.	09922	RCDX60-16D28
(87)1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
(88)1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
(89).5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
(91)3	615541	SCREW, PFH, 4-40X.250	-	-
(93)2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
(95)A/R	920962	LOCTITE, 242, MED STR.	05972	272
(96)1	921148-001	LABEL SET VXI	21793	921148-001
(97)A/R	921279	LOCQUIC, PRIMER	05972	74756
(98)A/R	921280	LOCTITE, HIGH STRENGTH	05972	27121

405072-006 - PCB ASSY., 1260-50D

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-C4	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C100-C102	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C103	110165	CAP, TANTA, .15 MF, 35V, 10PCT	05397	T355A154K035AS
C104-C136	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C141-C176	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-J203	602221-020	CONNECTOR,COAXIAL,RECEPT,20 POSITION,3ROW	09922	MSD20RM-58
K1-K5	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K6	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K7-K11	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K12	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K13-K17	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K18	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K19-K23	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K24	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K25-K29	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K30	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K31-K35	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K36	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K37-K41	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K42	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K43-K47	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K48	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K49-K53	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K54	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K55-K59	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K60	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K61-K65	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K66	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K67-K71	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K72	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K73-K77	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K78	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K79-K83	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K84	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K85-K89	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
K90	310208	RELAY, 2 FORM C	61529	TQ2E-12V
K91-K97	310234	RELAY, 50 OHM COAX, 1 FORM A, 12V	71707	9402-12-03
L1	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L2	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L3	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L4	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L5	600245	JUMPER, INSULATED	52210	L-2007-1
P1	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
P2	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
SW1-SW3	601969	SWITCH, DIP 6 POS, LOW PROFILE	65832	K406S
TP1	601197	POST, TEST, .025 SQ	00779	6-87022-6
TP2	601197	POST, TEST, .025 SQ	00779	6-87022-6
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

405072-006 - PCB ASSY., 1260-50D

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
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
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
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	231152-001	IC, DIGITAL 16L8, PAL	21793	231152-001
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
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

415072-006 - PCB ASSY., 1260-50D

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
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
Z27	080114	RES NETWORK, 16P8R, 15K	73138	628-AL-153J
Z28	080120	RES NETWORK, 10K	11236	767-161R10K
{47}1	401951	PCB ASSY., LBUS JUMPER	21793	401951
{48}1	401951-003	PCB ASSY., P3 JUMPER	21793	401951-003
{49}1	415072-002	PCB, 1260-50 (UNLOADED)	21793	415072-002
{52}A/R	500022	WIRE, BARE COPPER/TIN, 22 GA	21793	500022
{53}A/R	500009	TUBING, SHRINK,. 12 ID, BLK	29005	RNF-100-1-1/8
{60}80	455520	COAX TERMINAL, PCB MOUNT	21793	455520
{61}A/R	500254	CABLE, COAXIAL, 50 OHM	92194	9178B
{62}A/R	610777	CABLE TIE	16956	08-432
{74}4	611258-001	STANDOFF, SWAGE 4-40 X .170	06540	8091-11B-B-440-28
{81}1	456123-004	PANEL, FRONT, 1260-50D	21793	456123-004
{82}1	456124	BRACKET, CONNECTOR MOUNTING	21793	456124
{85}80	602221-901	CONNECTOR, SUBMIN COAX, RECEPT 1 COND.	09922	RCDX60-16D28
{87}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{88}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{89}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{91}3	615541	SCREW, PFH, 4-40X.250	-	-
{93}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-
{95}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{96}1	921148-001	LABEL SET VXI	21793	921148-001
{97}A/R	921279	LOCQUIC, PRIMER	05972	74756
{98}A/R	921280	LOCTITE, HIGH STRENGTH	05972	27121

407367-001 - SHIP KIT, 1260-50C

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	602220-020	CONNECTOR, COAXIAL, PLUG, 20 POSITION	09922	MSD20PM-118{M
{7}3	615013	SCREW, PPF, 2-56 X .188	-	-
{1}	980673-002	MANUAL, 1260-50C/D	21793	980673-028

407367-002 - SHIP KIT, 1260-50D

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}4	602220-020	CONNECTOR, COAXIAL, PLUG, 20 POSITION	09922	MSD20PM-118{M
{7}3	615013	SCREW, PPF, 2-56 X .188	-	-
{1}	980673-002	MANUAL, 1260-50C/D	21793	980673-028

List of Suppliers

FSC	SUPPLIER
00779	AMP, INC. HARRISBURG, PA
01295	TEXAS INSTRUMENTS, INC. DALLAS, TX
04713	MOTOROLA, INC. (SEMICONDUCTOR PRODUCTS DIV.) PHOENIX, AZ
05397	UNION CARBIDE CORP. (MATERIALS SYSTEMS DIV.) CLEVELAND, OH
05972	LOCTITE CORP. HARTFORD, CT
06540	AMATOM ELECTRONIC HARDWARE NEW ROCHELLE, NY
11236	CTS OF BERNE, INC. BERNE, IN
16956	DENNISON MFG. CO. FRAMINGTON, MA
18324	SIGNETICS, INC. SUNNYVALE, CA
21793	RACAL INSTRUMENTS IRVINE, CA
27014	NATIONAL SEMI-CONDUCTOR CORP. SANTA CLARA, CA
28198	POSITRONIC INDUSTRIES INC. SPRINGFIELD, MO
29005	STORM PRODUCTS CO. LOS ANGELES, CA
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
65832	AMERICAN RESEARCH & ENGINEERING ELGIN, IL
71707	COTO-COIL CO., INC. PROVIDENCE, RI

FSC	SUPPLIER
73138	BECKMAN INSTRUMENTS FULLERTON, CA
91637	DALE ELECTRONICS, INC. COLUMBUS, NE
92194	ALPHA WIRE ELIZABETH, NJ
95275	VITRAMON, INC. BRIDGEPORT, CT

Chapter 6

OPTIONAL HARNESS ASSEMBLIES

The following harness assemblies are used to connect Racal Instruments Model 1260-50C/D to Freedom Series Test Receiver Interfaces.

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

407288, 1260-50C Virginia Panel, Inc. Series VP90 Interface Harness..... 6-3

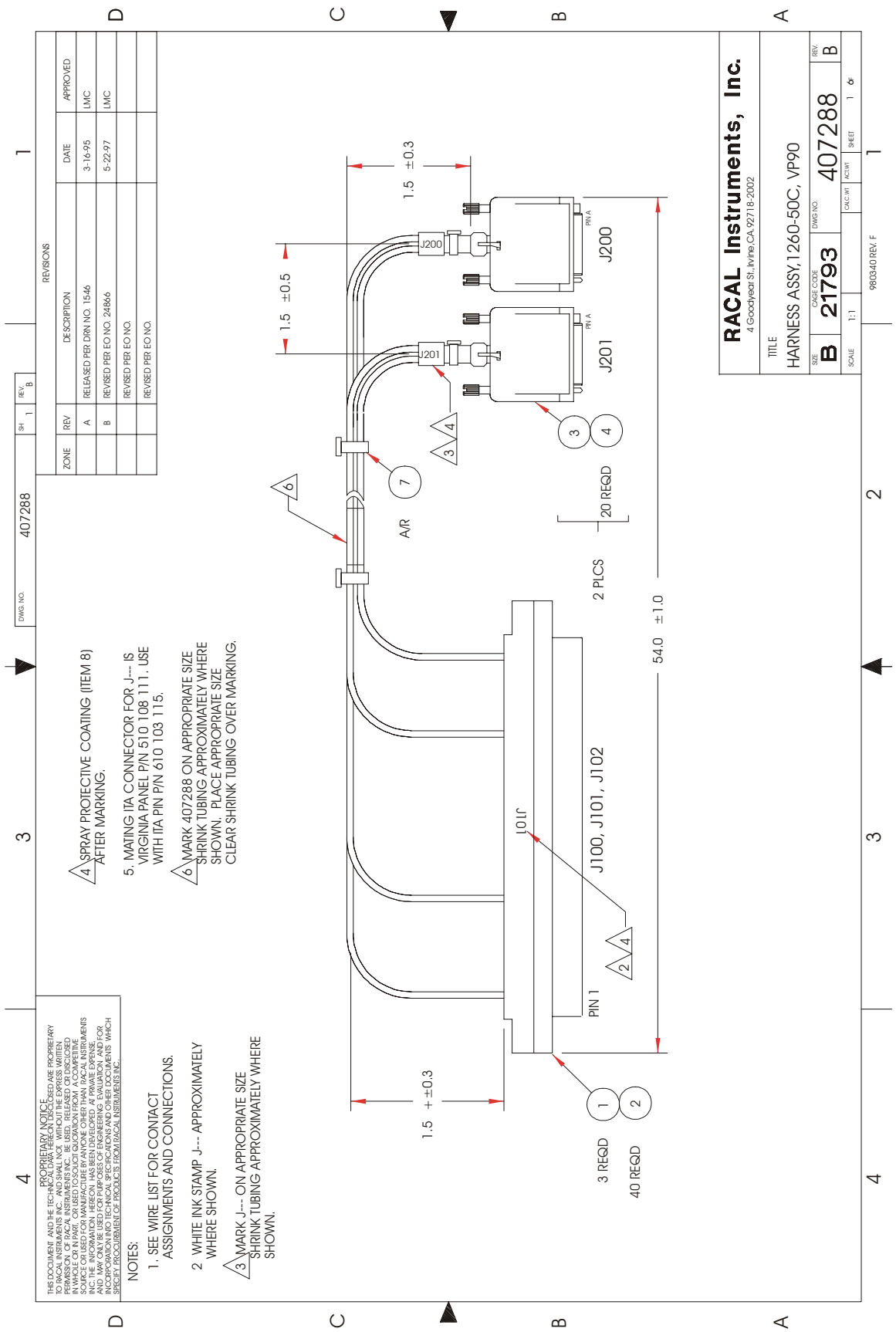
407289, 1260-50D Virginia Panel, Inc. Series VP90 Interface Harness..... 6-9

407290, 1260-50C TTI Testron, Inc. Interface Harness 6-16
(TTI Receiver must be above chassis)

407290-002, 1260-50C TTI Testron, Inc. Interface Harness 6-22
(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, 1260-50C, VP90
SIZE B
CAGE CODE 21793
DWG NO. 407288
REV. B
SCALE 1:1
SHEET 1 OF 1
980340 REV. F
DWG. NO. 407288
SH 1
REV. B
REVISIONS
ZONE | REV | DESCRIPTION | DATE | APPROVED
A | RELEASED PER DRN NO. 1546 | 3-16-95 | LMC
B | REVISED PER ECO NO. 24866 | 5-22-97 | LMC
REVISED PER ECO NO.
REVISED PER ECO NO.
PROPRIETARY NOTICE
THIS DOCUMENT AND THE TECHNICAL DATA HEREON DISCLOSED ARE PROPRIETARY TO RACAL INSTRUMENTS INC. AND SHALL NOT, WITHOUT THE EXPRESS WRITTEN PERMISSION OF RACAL INSTRUMENTS INC., BE USED, RELEASED OR DISCLOSED IN WHOLE OR IN PART OUTSIDE OF RACAL INSTRUMENTS INC., NOR BE USED AS A SOURCE OF AID TO ANY SOURCE OR USED FOR MANUFACTURE BY ANYONE OTHER THAN RACAL INSTRUMENTS INC. THE INFORMATION HEREON HAS BEEN DEVELOPED AT PRIVATE EXPENSE, AND MAY ONLY BE USED FOR PURPOSES OF ENGINEERING EVALUATION AND FOR ACCOMMODATION OF RACAL SPECIFICATIONS AND ORDERS CONTAINING WHICH SPECIFY PROCUREMENT OF PRODUCTS FROM RACAL INSTRUMENTS INC.
NOTES:
1. SEE WIRE LIST FOR CONTACT ASSIGNMENTS AND CONNECTIONS.
2 WHITE INK STAMP J--- APPROXIMATELY WHERE SHOWN.
3 MARK J--- ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
4 SPRAY PROTECTIVE COATING (ITEM 8) AFTER MARKING.
5. MATING ITA CONNECTOR FOR J--- IS VIRGINIA PANEL P/N 510 108 111. USE WITH ITA PIN P/N 610 103 115.
6 MARK 407288 ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN. PLACE APPROPRIATE SIZE CLEAR SHRINK TUBING OVER MARKING.
J100, J101, J102
J101
PIN 1
3 REQD
40 REQD
1.5 ±0.3
1.5 ±0.5
1.5 ±0.3
54.0 ±1.0
2 PLCS
A/R
J200
J201
PIN A
20 REQD

ENGINEERING PARTS LIST

ITEM	REV	PART NO.	DESCRIPTION	QTY	REEERENCE
1		602201-008	CON-RCV-PLG019C.---S-VP90	3	J100-J102
2		602201-807	PATCHCORD,MINI-COAX,500HM 60”	40	W/J100-J102
3		602220-020	CON-CXL-PLG020C.	2	J200, J201
4		602220-900	CON-CXL-PLG0001C.	40	W/J200, J201
5					
6					
7		610777	TIE-CA-LKG-.062-.074	A/R	
8		910541	POLYURETHANE CONF. COAT	A/R	
9					

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, VP90	**A**	21793	**407288**	**B**
	DRN		SHEET 2 of 6	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J200)	CABLE	407288		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (J200,J201)	CABLE	407288		
	BLK AA (J102)	Uxx-SLOT yy (J201)	CABLE	407288		

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.

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, VP90	**A**	21793	**407288**	**B**
	DRN			SHEET 3 of 6

ENGINERRING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 (602201-008)	J200-A 602220-900	COAX	602201-807	54"	CHANNEL 00
2	J100-2 (602201-008)	J200-B 602220-900	COAX	602201-807	54"	CHANNEL 01
3	J100-3 (602201-008)	J200-C 602220-900	COAX	602201-807	54"	CHANNEL 02
4	J100-4 (602201-008)	J200-D 602220-900	COAX	602201-807	54"	CHANNEL 03
5	J100-5 (602201-008)	J200-E 602220-900	COAX	602201-807	54"	CHANNEL 04
6	J100-6 (602201-008)	J200-F 602220-900	COAX	602201-807	54"	CHANNEL 10
7	J100-7 (602201-008)	J200-H 602220-900	COAX	602201-807	54"	CHANNEL 11
8	J100-8 (602201-008)	J200-3 602220-900	COAX	602201-807	54"	CHANNEL 12
9	J100-9 (602201-008)	J200-K 602220-900	COAX	602201-807	54"	CHANNEL 13
10	J100-10 (602201-008)	J200-L 602220-900	COAX	602201-807	54"	CHANNEL 14
11	J100-11 (602201-008)	J200-M 602220-900	COAX	602201-807	54"	CHANNEL 20
12	J100-12 (602201-008)	J200-N 602220-900	COAX	602201-807	54"	CHANNEL 21
13	J100-13 (602201-008)	J200-P 602220-900	COAX	602201-807	54"	CHANNEL 22
14	J100-14 (602201-008)	J200-R 602220-900	COAX	602201-807	54"	CHANNEL 23
15	J100-15 (602201-008)	J200-S 602220-900	COAX	602201-807	54"	CHANNEL 24
16 17	J100-16 J100-17	NO CONNECT NO CONNECT				
18 19	J100-18 J100-19	NO CONNECT NO CONNECT				
20	J101-1 (602201-008)	J200-T 602220-900	COAX	602201-807	54"	CHANNEL 30
21	J101-2 (602201-008)	J200-U 602220-900	COAX	602201-807	54"	CHANNEL 31
22	J101-3 (602201-008)	J200-V 602220-900	COAX	602201-807	54"	CHANNEL 32
23	J101-4 (602201-008)	J200-W 602220-900	COAX	602201-807	54"	CHANNEL 33
24	J101-5 (602201-008)	J200-X 60222Q-900	COAX	602201-807	54"	CHANNEL 34
25	J101-6 (602201-008)	J201-A 602220-900	COAX	602201-807	54"	CHANNEL 40

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, VP90	**A**	21793	**407288**	**B**
	DRN			SHEET 4 of 6

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART	WIRE LEN	REFERENCE
26	J101-7 (602201-008)	J201-B 602220-900	COAX	602201-807	54"	CHANNEL 41
27	J101-8 (602201-008)	J201-C 602220-900	COAX	602201-807	54"	CHANNEL 42
28	J101-9 (602201-008)	J201-D 602220-900	COAX	602201-807	54"	CHANNEL 43
29	J101-10 (602201-008)	J201-E 602220-900	COAX	602201-807	54"	CHANNEL 44
30	J101-11 (602201-008)	J201-F 602220-900	COAX	602201-807	54"	CHANNEL 50
31	J101-12 (602201-008)	J201-H 602220-900	COAX	602201-807	54"	CHANNEL 51
32	J101-13 (602201-008)	J201-3 602220-900	COAX	602201-807	54"	CHANNEL 52
33	J101-14 (602201-008)	J201-K 602220-900	COAX	602201-807	54"	CHANNEL 53
34	J101-15 (602201-008)	J201-L 602220-900	COAX	602201-807	54"	CHANNEL 54
35	J101-16	NO CONNECT				
36	J101-17	NO CONNECT				
37	J101-18	NO CONNECT				
38	J101-19	NO CONNECT				
39	J102-1 (602201-008)	J201-M 602220-900	COAX	602201-807	54"	CHANNEL 60
40	J102-2 (602201-008)	J201-N 602220-900	COAX	602201-807	54"	CHANNEL 61
41	J102-3 (602201-008)	J201-P 602220-900	COAX	602201-807	54"	CHANNEL 62
42	J102-4 (602201-008)	J201-R 602220-900	COAX	602201-807	54"	CHANNEL 63
43	J102-5 (602201-008)	J201-S 602220-900	COAX	602201-807	54"	CHANNEL 64
44	J102-6 (602201-008)	J201-T 602220-900	COAX	602201-807	54"	CHANNEL 70
45	J102-7 (602201-008)	J201-U 602220-900	COAX	602201-807	54"	CHANNEL71
46	J102-8 (602201-008)	J201-V 602220-900	COAX	602201-807	54"	CHANNEL 72
47	J102-9 (602201-008)	J201-W 602220-900	COAX	602201-807	54"	CHANNEL 73
48	J102-10 (602201-008)	J201-X 602220-900	COAX	602201-807	54"	CHANNEL 74
49	J102-11	NO CONNECT				
50	J102-12	NO CONNECT				

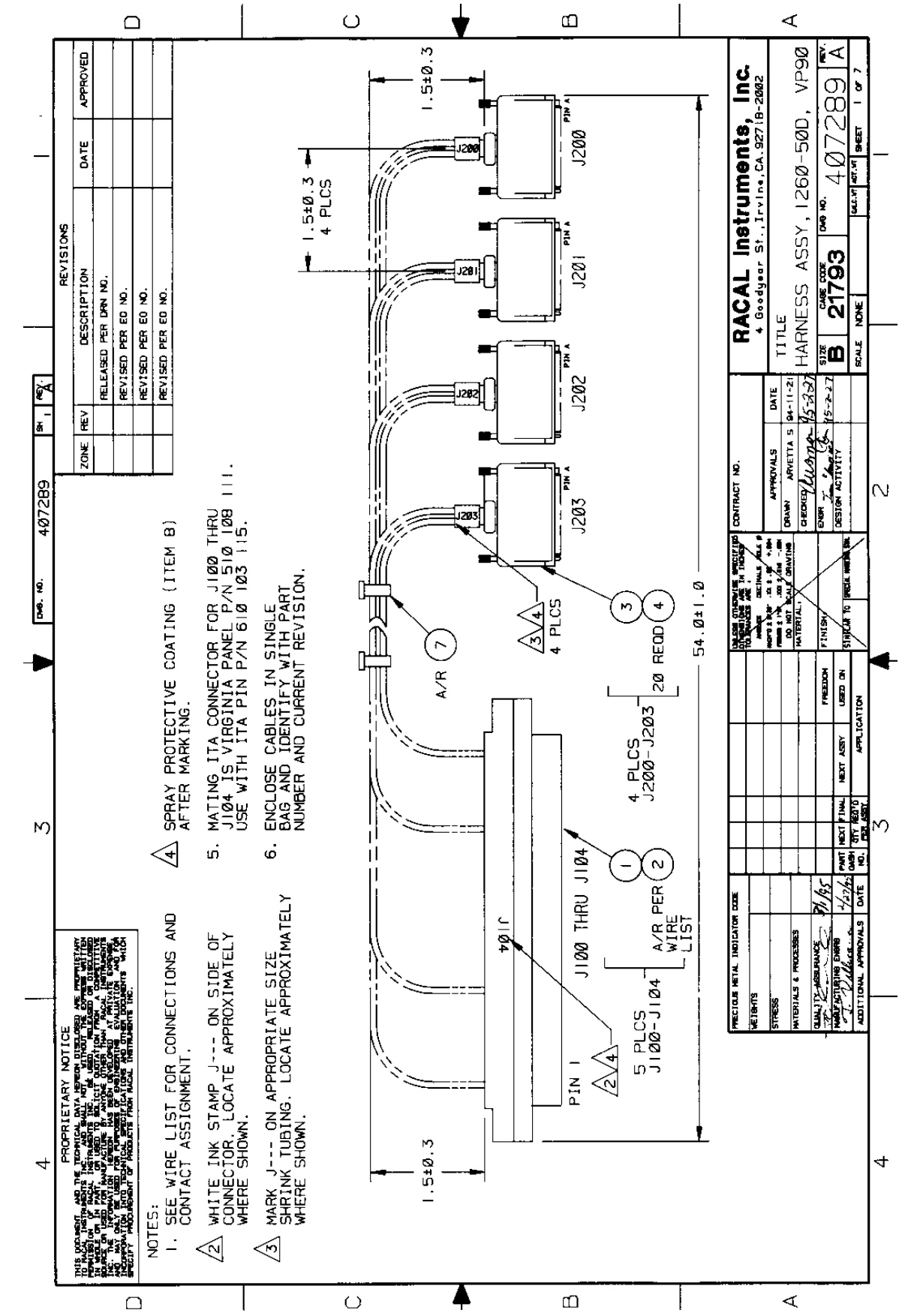
RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, VP90	**A**	21793	**407288**	**B**
	DRN			SHEET 5 of 6

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
51	J102-13	NO CONNECT				
52	J102-14	NO CONNECT				
53	J102-15	NO CONNECT				
54	J102-16	NO CONNECT				
55	J102-17	NO CONNECT				
56	J102-18	NO CONNECT				
57	J102-19	NO CONNECT				

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, VP90	**A**	21793	**407288**	**B**
	DRN		SHEET 6 of 6	


PROPRIETARY NOTICE
NOTES:
1. SEE WIRE LIST FOR CONNECTIONS AND CONTACT ASSIGNMENT.
2 WHITE INK STAMP J--- ON SIDE OF CONNECTOR. LOCATE APPROXIMATELY WHERE SHOWN.
3 MARK J--- ON APPROPRIATE SIZE SHRINK TUBING. LOCATE APPROXIMATELY WHERE SHOWN.
4 SPRAY PROTECTIVE COATING (ITEM 8) AFTER MARKING.
5. MATING ITA CONNECTOR FOR J100 THRU J104 IS VIRGINIA PANEL P/N 510 108 111. USE WITH ITA PIN P/N 610 103 115.
6. ENCLOSE CABLES IN SINGLE BAG AND IDENTIFY WITH PART NUMBER AND CURRENT REVISION.
REVISIONS
ZONE REV DESCRIPTION DATE APPROVED
RELEASED PER DRN NO.
REVISED PER EO NO.
REVISED PER EO NO.
REVISED PER EO NO.
REVISED PER EO NO.
DWG. NO. 407289 SH 1 REV A
J100 THRU J104
5 PLCS J100-J104
A/R PER WIRE LIST
PIN 1
4 PLCS J200-J203
20 REQD
A/R
4 PLCS
1.5±0.3
1.5±0.3
4 PLCS
54.0±1.0
J200
J201
J202
J203
RACAL Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002
TITLE
HARNESS ASSY, 1260-50D, VP90
SIZE B
CAGE CODE 21793
DWG NO. 407289
REV. A
SCALE NONE
SHEET 1 OF 7

ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REEERENCE
1		602201-008	CON-RCV-PLG019C.---S-VP90	5	J100-J104
2		602201-807	PATCHCORD,MINICOAX,500HM 60"	80	W/J100-J104
3		602220-020	CON-CXL-PLG020C	4	J200-J203
4		602220-900	CON-CXL-PLG0001C.	80	W/J200-J203
5					
6					
7		610777	TIE-CA-LKG-.062,.075	A/R	
8		910541	POLYURETHANE CONF. COAT	A/R	

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, VP90	**A**	21793	**407289**	A
	DRN			SHEET 2 of 7

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J200)	CABLE	407289		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (J200,J201)	CABLE	407289		
	BLK AA (J102)	Uxx-SLOT yy (J201 ,J202)	CABLE	407289		
	BLK AA (J103)	Yxx-SLOT yy (J202,J203)	CABLE	407289		
	BLK AA (J104)	Uxx-SLOT yy (J203)	CABLE	407289		

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.

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, VP90	**A**	21793	**407289**	A
	DRN		SHEET 3 of 7	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 (602201-008)	J200-A 602220-900	COAX	602201-807	54"	CHANNEL 00
2	J100-2 (602201-008)	J200-B 602220-900	COAX	602201-807	54"	CHANNEL 01
3	J100-3 (602201-008)	J200-C 602220-900	COAX	602201-807	54"	CHANNEL 02
4	J100-4 (602201-008)	J200-D 602220-900	COAX	602201-807	54"	CHANNEL 03
5	J100-5 (602201-008)	J200-E 602220-900	COAX	602201-807	54"	CHANNEL 04
6	J100-6 (602201-008)	J200-F 602220-900	COAX	602201-807	54"	CHANNEL 10
7	J100-7 (602201-008)	J200-H 602220-900	COAX	602201-807	54"	CHANNEL 11
8	J100-8 (602201-008)	J200-J 602220-900	COAX	602201-807	54"	CHANNEL 12
9	J100-9 (602201-008)	J200-K 602220-900	COAX	602201-807	54"	CHANNEL 13
10	J100-10 (602201-008)	J200-L 602220-900	COAX	602201-807	54"	CHANNEL 14
11	J100-11 (602201-008)	J200-M 602220-900	COAX	602201-807	54"	CHANNEL 20
12	J100-12 (602201-008)	J200-N 602220-900	COAX	602201-807	54"	CHANNEL 21
13	J100-13 (602201-008)	J200-P 602220-900	COAX	602201-807	54"	CHANNEL 22
14	J100-14 (602201-008)	J200-R 602220-900	COAX	602201-807	54"	CHANNEL 23
15	J100-15 (602201-008)	J200-S 602220-900	COAX	602201-807	54"	CHANNEL 24
16	J100-16 NO CONNECT					
17	J100-17 NO CONNECT					
18	J100-18 NO CONNECT					
19	J100-19 NO CONNECT					
20	J101-1 (602201-008)	J200-T 602220-900	COAX	602201-807	54"	CHANNEL 30
21	J101-2 (602201-008)	J200-U 602220-900	COAX	602201-807	54"	CHANNEL 31
22	J101-3 (602201-008)	J200-V 602220-900	COAX	602201-807	54"	CHANNEL 32
23	J101-4 (602201-008)	J200-W 602220-900	COAX	602201-807	54"	CHANNEL 33
24	J101-5 (602201-008)	J200-X 602220-900	COAX	602201-807	54"	CHANNEL 34

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, VP90	**A**	21793	**407289**	A
	DRN		SHEET 4 of 7	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
25	J101-6 (602201-008)	J201-A 602220-900	COAX	602201-807	54"	CHANNEL 40
26	J101-7 (602201-008)	J201-B 602220-900	COAX	602201-807	54"	CHANNEL 41
27	J101-8 (602201-008)	J20 1-C 602220-900	COAX	602201-807	54"	CHANNEL 42
28	J101-9 (602201-008)	J201-D 602220-900	COAX	602201-807	54"	CHANNEL 43
29	J101-10 (602201-008)	J201-E 602220-900	COAX	602201-807	54"	CHANNEL 44
30	J101-11 (602201-008)	J201-F 602220-900	COAX	602201-807	54"	CHANNEL 50
31	J101-12 (602201-008)	J201-H 602220-900	COAX	602201-807	54"	CHANNEL 51
32	J101-13 (602201-008)	J201-J 602220-900	COAX	602201-807	54"	CHANNEL 52
33	J101-14 (602201-008)	J201-K 602220-900	COAX	602201-807	54"	CHANNEL 53
34	J101-15 (602201-008)	J201-L 602220-900	COAX	602201-807	54"	CHANNEL 54
35	J101-16 NO CONNECT					
36	J101-17 NO CONNECT					
37	J101-18 NO CONNECT					
38	J101-19 NO CONNECT					
39	J102-1 (602201-008)	J201-M 602220-900	COAX	602201-807	54"	CHANNEL 60
40	J102-2 (602201-008)	J201-N 602220-900	COAX	602201-807	54"	CHANNEL 61
41	J102-3 (602201-008)	J20 1-P 602220-900	COAX	602201-807	54"	CHANNEL 62
42	J102-4 (602201-008)	J201-R 602220-900	COAX	602201-807	54"	CHANNEL 63
43	J102-5 (602201-008)	J20 1-S 602220-900	COAX	602201-807	54"	CHANNEL 64
44	J102-6 (602201-008)	J201-T 602220-900	COAX	602201-807	54"	CHANNEL 70
45	J102-7 (602201-008)	J201-U 602220-900	COAX	602201-807	54"	CHANNEL 71
46	J102-8 (602201-008)	J20 1-V 602220-900	COAX	602201-807	54"	CHANNEL 72
47	J102-9 (602201-008)	J201-W 602220-900	COAX	602201-807	54"	CHANNEL 73
48	J102-10 (602201-008)	J201-X 602220-900	COAX	602201-807	54"	CHANNEL 74

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, VP90	**A**	21793	**407289**	A
	DRN			SHEET 5 of 7

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
49	J102-11 (602201-008)	J202-A 602220-900	COAX	602201-807	54"	CHANNEL 80
50	J102-12 (602201-008)	J202-B 602220-900	COAX	602201-807	54"	CHANNEL 81
51	3102-13 (602201-008)	J202-C 602220-900	COAX	602201-807	54"	CHANNEL 82
52	J102-14 (602201-008)	J202-D 602220-900	COAX	602201-807	54"	CHANNEL 83
53	J102-15 (602201-008)	J202-E 602220-900	COAX	602201-807	54"	CHANNEL 84
54	J102-16 NO CONNECT					
55	J102-17 NO CONNECT					
56	J102-18 NO CONNECT					
57	J102-19 NO CONNECT					
58	J103-1 (602201-008)	J202-F 602220-900	COAX	602201-807	54"	CHANNEL 90
59	J103-2 (602201-008)	J202-H 602220-900	COAX	602201-807	54"	CHANNEL 91
60	J103-3 (602201-008)	J202-J 602220-900	COAX	602201-807	54"	CHANNEL 92
61	J103-4 (602201-008)	J202-K 602220-900	COAX	602201-807	54"	CHANNEL 93
62	J103-5 (602201-008)	J202-L 602220-900	COAX	602201-807	54"	CHANNEL 94
63	J103-6 (602201-008)	J202-M 602220-900	COAX	602201-807	54"	CHANNEL 100
64	J103-7 (602201-008)	J202-N 602220-900	COAX	602201-807	54"	CHANNEL 101
65	J103-8 (602201-008)	J202-P 602220-900	COAX	602201-807	54"	CHANNEL 102
66	J103-9 (602201-008)	J202-R 602220-900	COAX	602201-807	54"	CHANNEL 103
67	J103-10 (602201-008)	J202-S 602220-900	COAX	602201-807	54"	CHANNEL 104
68	J103-11 (602201-008)	J202-T 602220-900	COAX	602201-807	54"	CHANNEL 110
69	J103-12 (602201-008)	J202-U 602220-900	COAX	602201-807	54"	CHANNEL 111
70	J103-13 (602201-008)	J202-V 602220-900	COAX	602201-807	54"	CHANNEL 112
71	J103-14 (602201-008)	J202-W 602220-900	COAX	602201-807	54"	CHANNEL 113

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

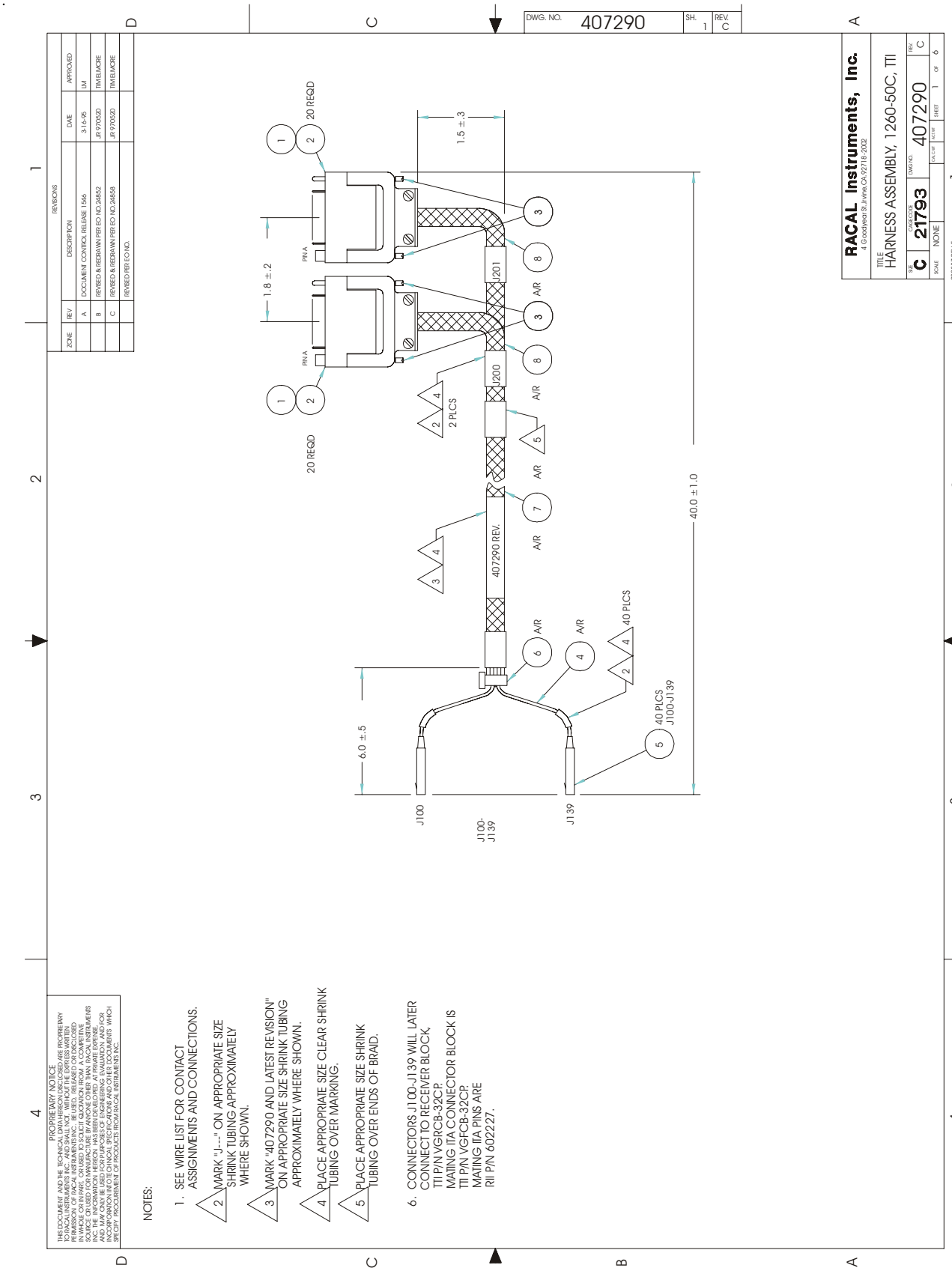
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, VP90	**A**	21793	**407289**	A
	DRN		SHEET 6 of 7	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
72	J103-15 (602201-008)	J202-X 602220-900	COAX	602201-807	54"	CHANNEL114
73	J103-16 NO CONNECT					
74	J103-17 (602201-008)	J203-T 602220-900	COAX	602201-807	54"	CHANNEL 150
75	J103-18 (602201-008)	J203-U 602220-900	COAX	602201-807	54"	CHANNEL 151
76	J103-19 (602201-008)	J203-V 602220-900	COAX	602201-807	54"	CHANNEL 152
77	J104-1 (602201-008)	J203-A 602220-900	COAX	602201-807	54"	CHANNEL 120
78	J104-2 (602201-008)	J203-B 602220-900	COAX	602201-807	54"	CHANNEL 121
79	J104-3 (602201-008)	J203-C 602220-900	COAX	602201-807	54"	CHANNEL 122
80	J104-4 (602201-008)	J203-D 602220-900	COAX	602201-807	54"	CHANNEL 123
81	J104-5 (602201-008)	J203-E 602220-900	COAX	602201-807	54"	CHANNEL 124
82	J104-6 (602201-008)	J203-F 602220-900	COAX	602201-807	54"	CHANNEL 130
83	J104-7 (602201-008)	J203-H 602220-900	COAX	602201-807	54"	CHANNEL 131
84	J104-8 (602201-008)	J203-J 602220-900	COAX	602201-807	54"	CHANNEL 132
85	J104-9 (602201-008)	J203-K 602220-900	COAX	602201-807	54"	CHANNEL 133
86	J104-10 (602201-008)	J203-L 602220-900	COAX	602201-807	54"	CHANNEL 134
87	J104-11 (602201-008)	J203-M 602220-900	COAX	602201-807	54"	CHANNEL 140
88	J104-12 (602201-008)	J203-N 602220-900	COAX	602201-807	54"	CHANNEL 141
89	J104-13 (602201-008)	J203-P 602220-900	COAX	602201-807	54"	CHANNEL 142
90	J104-14 (602201-008)	J203-R 602220-900	COAX	602201-807	54"	CHANNEL 143
91	J104-15 (602201-008)	J203-S 602220-900	COAX	602201-807	54"	CHANNEL 144
92	J104-16 NO CONNECT					
93	J104-17 NO CONNECT					
94	J104-18 (602201-008)	J203-W 602220-900	COAX	602201-807	54"	CHANNEL 153
95	J104-19 (602201-008)	J203-X 602220-900	COAX	602201-807	54"	CHANNEL 154

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, VP90	**A**	21793	**407289**	A
	DRN		SHEET 7 of 7	


DWG. NO. 407290
SH. 1
REV. C
RACAL Instruments, Inc.
4 Goodyear St.,Irvine,CA 92718-2002
TITLE
HARNESS ASSEMBLY, 1260-50C, TTI
SIZE C
CAGE CODE 21793
DWG NO. 407290
REV. C
SCALE NONE
SHEET 1 OF 6
980337 REV. F
REVISIONS
ZONE REV DESCRIPTION DATE APPROVED
A DOCUMENT CONTROL RELEASE 1646 3-16-95 LM
B REVISED & REDRAWN PER ECO NO.24852 JR 970520 TIM ELMORE
C REVISED & REDRAWN PER ECO NO.24858 JR 970520 TIM ELMORE
REVISED PER ECO NO.
PROPRIETARY NOTICE
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NOTES:
1. SEE WIRE LIST FOR CONTACT ASSIGNMENTS AND CONNECTIONS.
2 MARK "J---" ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
3 MARK "407290 AND LATEST REVISION" ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
4 PLACE APPROPRIATE SIZE CLEAR SHRINK TUBING OVER MARKING.
5 PLACE APPROPRIATE SIZE SHRINK TUBING OVER ENDS OF BRAID.
6. CONNECTORS J100-J139 WILL LATER CONNECT TO RECEIVER BLOCK. TTI P/N VGRCB-32CP. MATING ITA CONNECTOR BLOCK IS TTI P/N VGFCB-32CP. MATING ITA PINS ARE RII P/N 602227.
20 REQD
PIN A
1.8 ±.2
1.5 ±.3
2 PLCS
J200
J201
A/R
407290 REV.
40 PLCS
40 PLCS J100-J139
6.0 ±.5
40.0 ±1.0
J100
J100-J139
J139

ENGINEERING PARTS LIST

ITEM	REV	PART NO.	DESCRIPTION	QTY	REFERENCE
1		602220-020	CON-CXL-PLG020C.	2	J200-J201
2		602220-900	CON-CXL-PLG0001C.	40	W/J200-J201
3		611376	JACKSCREW, SHORT TURN, GMCT	2	W/J200-J201
4		500295	CACX-SHD-01C26G-1STR-50 OHM	A/R	
5		602196-900	CONTACT,CXL,MINI,TTI	40	J100-J139
6		610777	TIE-CA-LKG-.062-.075	A/R	
7		GRP-110-3/4	SLEEVING,BRMDED POLY,3/4	A/R	
8		GRP-110-1/2	SLEEVING,BRAIDED POLY,1/2	A/R	

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, TTI	**A**	21793	**407290**	C
	DRN		SHEET 2 of 6	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 01 (J100)	Uxx-SLOT yy (J200)	CABLE	407290		SYSTEM WIRE LIST
	BLK AAx PN 02 (J101)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 03 (J102)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 04 (J103)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 05 (J104)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 06 (J105)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 07 (J106)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 08 (J107)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 09 (J108)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 10 (J109)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 11 (J100)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 12 (J111)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 13 (J112)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 14 (J113)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 15 (J114)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 16 (J115)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 17 (J116)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 18 (J117)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 19 (J118)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 20 (J119)	Uxx-SLOT yy (J200)	CABLE	407290		
	BLK AAx PN 21 (J120)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 22 (J121)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 23 (J122)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 24 (J123)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 25 (J124)	Uxx-SLOT yy (J201)	CABLE	407290		

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, TTI	**A**	21793	**407290**	C
	DRN			SHEET 3 of 6

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 26 (J125)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 27 (J126)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 28 (J127)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 29 (J128)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 30 (J129)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 31 (J130)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 32 (J131)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 33 (J132)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 34 (J133)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 35 (J134)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 36 (J135)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 37 (J136)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 30 (J137)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 39 (J138)	Uxx-SLOT yy (J201)	CABLE	407290		
	BLK AAx PN 40 (J139)	Uxx-SLOT yy (J201)	CABLE	407290		
	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.					

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, TTI	**A**	21793	**407290**	C
	DRN		SHEET 4 of 6	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100 602196-900	J200-A 602220-900	COAX	500295	40"	CHANNEL 00
2	J101 602196-900	J200-B 602220-900	COAX	500295	40"	CHANNEL 01
3	J102 602196-900	J200-C 602220-900	COAX	500295	40"	CHANNEL 02
4	J103 602196-900	J200-D 602220-900	COAX	500295	40"	CHANNEL 03
5	J104 602196-900	J200-E 602220-900	COAX	500295	40"	CHANNEL 04
6	J105 602196-900	J200-F 602220-900	COAX	500295	40"	CHANNEL 10
7	J106 602196-900	J200-H 602220-900	COAX	500295	40"	CHANNEL 11
8	J107 602196-900	J2004 602220-900	COAX	500295	40"	CHANNEL 12
9	J108 602196-900	J200-K 602220-900	COAX	500295	40"	CHANNEL 13
10	J109 602196-900	J200-L 602220-900	COAX	500295	40"	CHANNEL 14
11	J110 602196-900	J200-M 602220-900	COAX	500295	40"	CHANNEL 20
12	J111 602196-900	J200-N 602220-900	COAX	500295	40"	CHANNEL 21
13	J112 602196-900	J200-P 602220-900	COAX	500295	40"	CHANNEL 22
14	J113 602196-900	J200-R 602220-900	COAX	500295	40"	CHANNEL 23
15	J114 602196-900	J200-S 602220-900	COAX	500295	40"	CHANNEL 24
16	J115 602196-900	J200-T 602220-900	COAX	500295	40"	CHANNEL 30
17	J116 602196-900	J200-U 602220-900	COAX	500295	40"	CHANNEL 31
18	J117 602196-900	J200-V 602220-900	COAX	500295	40"	CHANNEL 32
19	J118 602196-900	J200-W 602220-900	COAX	500295	40"	CHANNEL 33
20	J119 602196-900	J200-X 602220-900	COAX	500295	40"	CHANNEL 34
21	J120 602196-900	J201-A 602220-900	COAX	500295	40"	CHANNEL 40
22	J121 602196-900	J201-B 602220-900	COAX	500295	40"	CHANNEL41
23	J122 602196-900	J201-C 602220-900	COAX	500295	40"	CHANNEL 42
24	J123 602196-900	J201-D 602220-900	COAX	500295	40"	CHANNEL 43
25	J124 602196-900	J201-E 602220-900	COAX	500295	40"	CHANNEL 44

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

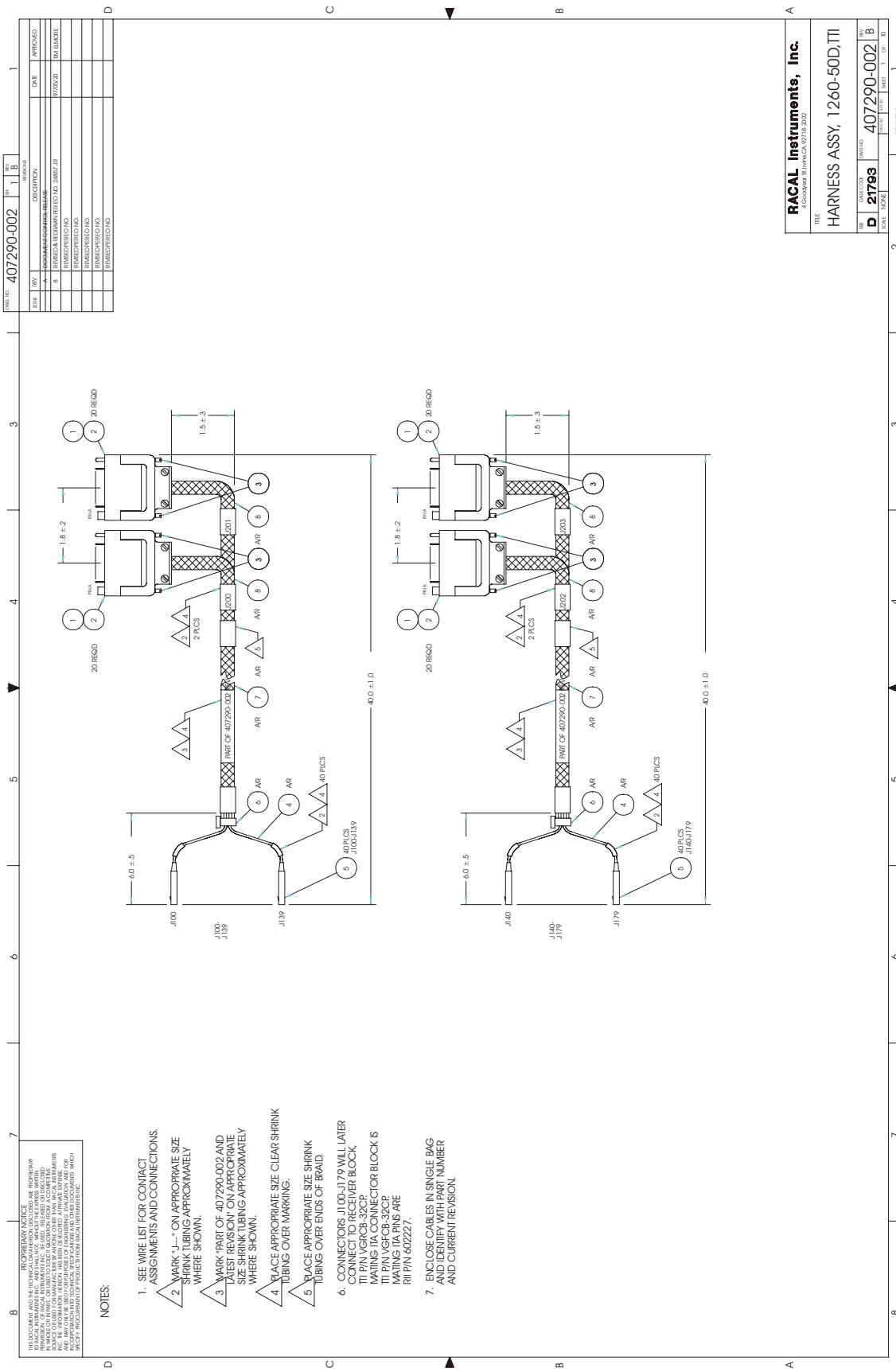
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, TTI	**A**	21793	**407290**	C
	DRN		SHEET 5 of 6	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J125 602196-900	J201-F 602220-900	COAX	500295	40"	CHANNEL 50
27	J126 602196-900	J201-H 602220-900	COAX	500295	40"	CHANNEL 51
28	J127 602196-900	J201-1 602220-900	COAX	500295	40"	CHANNEL 52
29	J128 602196-900	J201-K 602220-900	COAX	500295	40"	CHANNEL 53
30	J129 602196-900	J201-L 602220-900	COAX	500295	40"	CHANNEL 54
31	J130 602196-900	J201-M 602220-900	COAX	500295	40"	CHANNEL 60
32	J131 602196-900	J201-N 602220-900	COAX	500295	40"	CHANNEL 61
33	J132 602196-900	J201-P 602220-900	COAX	500295	40"	CHANNEL 62
34	J133 602196-900	J201-R 602220-900	COAX	500295	40"	CHANNEL 63
35	J134 602196-900	J201-S 602220-900	COAX	500295	40"	CHANNEL 64
36	J135 602196-900	J201-T 602220-900	COAX	*500295*	40"	CHANNEL 70
37	J136 602196-900	J201-U 602220-900	COAX	500295	40"	CHANNEL 71
38	J137 602196-900	J201-V 602220-900	COAX	500295	40"	CHANNEL 72
39	J138 602196-900	J201-W 602220-900	COAX	500295	40"	CHANNEL 73
40	J139 602196-900	J201-X 602220-900	COAX	500295	40"	CHANNEL 74

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50C, TTI	**A**	21793	**407290**	C
	DRN		SHEET 6 of 6	


RACAL Instruments, Inc.
HARNESS ASSY, 1260-50D,TTI
407290-002
NOTES:
1. SEE WIRE LIST FOR CONTACT ASSIGNMENTS AND CONNECTIONS.
2 MARK "J--" ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
3 MARK "PART OF 407290-002 AND LATEST REVISION" ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
4 PLACE APPROPRIATE SIZE CLEAR SHRINK TUBING OVER MARKING.
5 PLACE APPROPRIATE SIZE SHRINK TUBING OVER ENDS OF BRAID.
6. CONNECTORS J100-J179 WILL LATER CONNECT TO RECEIVER BLOCK. TTI P/N VGRCB-32CP. MATING ITA CONNECTOR BLOCK IS TTI P/N VGFCB-32CP. MATING ITA PINS ARE RR P/N 602227.
7. ENCLOSE CABLES IN SINGLE BAG AND IDENTIFY WITH PART NUMBER AND CURRENT REVISION.
J100
J139
J140
J179
20 REQD
2 PLCS
40 PLCS
PART OF 407290-002
6.0 ±.5
1.8 ±.2
1.5 ±.3
40.0 ±1.0
PROPRIETARY NOTICE

ENGINEERING PARTS LIST

ITEM	REV	PART NO.	DESCRIPTION	QTY	REEERENCE
1		602220-020	CON-CXL-PLG020C.	4	J200-J203
2		602220-900	CON-CXL-PLG0001C.	80	W/J200-J203
3		611376	JACKSCREW, SHORT TURN, GMCT	4	W/J200-J203
4		500295	CACX-SHD-01C26G-1STR-50 OHM	A/R	
5		602196-900	CONTACT,CXL,MINI,TTI	80	J100-J179
6		610777	TIE-CA-LKG-.062-.075	A/R	
7		GRP-110-3/4	SLEEVING,BRAIDED POLY,314	A/R	
8		GRP-110-1/2	SLEEVING,BRAIDED POLY,1/2	A/R	

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, TTI	**A**	21793	**407290-002**	B
	DRN		SHEET 2 of 10	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 01 (J100)	Uxx-SLOT yy (J200)	CABLE	407290-002		SYSTEM WIRE LIST
	BLK AAx PN 02 (J101)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 03 (J102)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 04 (J103)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN Os (J104)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 06 (J105)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 07 (J106)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 08 (J107)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 09 (J108)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 10 (J109)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 11 (J100)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 12 (J111)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 13 (J112)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 14 (J113)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 15 (J114)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 16 (J115)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 17 (J116)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 18 (J117)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 19 (J118)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 20 (J119)	Uxx-SLOT yy (J200)	CABLE	407290-002		
	BLK AAx PN 21 (J120)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 22 (J121)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 23 (J122)	Uxx-SLOT *yy* (J201)	CABLE	407290-002		
	BLK AAx PN 24 (J123)	Uxx-SLOT *yy* (J201)	CABLE	407290-002		
	BLK AAx PN 25 (J124)	Uxx-SLOT yy (J201)	CABLE	407290-002		

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, TTI	**A**	21793	**407290-002**	B
	DRN			SHEET 3 of 10

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 26 (J125)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 27 (J126)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 28 (J127)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 29 (J128)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 30 (J129)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 31 (J130)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 32 (J131)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 33 (J132)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 34 (J133)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 35 (J134)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 36 (J135)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 37 (J136)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 38 (J137)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 39 (J138)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 40 (J139)	Uxx-SLOT yy (J201)	CABLE	407290-002		
	BLK AAx PN 41 (J140)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 42 (J141)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 43 (J142)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 44 (J143)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 45 (J144)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN46 (J145)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 47 (J146)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 48 (J147)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 49 (J148)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 50 (J149)	Uxx-SLOT yy (J202)	CABLE	407290-002		

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, TTI	**A**	21793	**407290-002**	B
	DRN			SHEET 4 of 10

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 51 (J150)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 52 (J151)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 53 (J152)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 54 (J153)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 55 (J154)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 56 (J155)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 57 (J156)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 58 (J157)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 59 (J158)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 60 (J159)	Uxx-SLOT yy (J202)	CABLE	407290-002		
	BLK AAx PN 61 (J160)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 62 (J161)	Uxx-SLOT yy *(J203)*	CABLE	407290-002		
	BLK AAx PN 63 (J162)	Uxx-SLOT (J203)	CABLE	407290-002		
	BLK AAx PN 64 (J163)	Uxx-SLOT yy *(J203)*	CABLE	407290-002		
	BLK AAx PN 65 (J164)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 66 *(J165)*	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 67 (J166)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 68 (J167)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 69 (J168)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 70 (J169)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 71 (J170)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 72 (J171)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 73 (J172)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 74 (J173)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 75 (J174)	Uxx-SLOT yy (J203)	CABLE	407290-002		

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, TTI	**A**	21793	**407290-002**	B
	DRN			SHEET 5 of 10

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 76 (J175)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 77 (J176)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 78 (J177)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 79 (J178)	Uxx-SLOT yy (J203)	CABLE	407290-002		
	BLK AAx PN 80 (J179)	Uxx-SLOT yy (J203)	CABLE	407290-002		

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.

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, TTI	**A**	21793	**407290-002**	B
	DRN		SHEET 6 of 10	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100 602196-900	J200-A 602220-900	COAX	500295	40"	CHANNEL 00
2	J101 602196-900	J200-B 602220-900	COAX	500295	40"	CHANNEL 01
3	J102 602196-900	J200-C 602220-900	COAX	500295	40"	CHANNEL 02
4	J103 602196-900	J200-D 602220-900	COAX	500295	40"	CHANNEL 03
5	J104 602196-900	J200-E 602220-900	COAX	500295	40"	CHANNEL 04
6	J105 602196-900	J200-F 602220-900	COAX	500295	40"	CHANNEL 10
7	J106 602196-900	J200-H 602220-900	COAX	500295	40"	CHANNEL 11
8	J107 602196-900	J200-3 602220-900	COAX	500295	40"	CHANNEL 12
9	J108 602196-900	J200-K 602220-900	COAX	500295	40"	CHANNEL 13
10	J109 602196-900	J200-L 602220-900	COAX	500295	40"	CHANNEL 14
11	J110 602196-900	J200-M 602220-900	COAX	500295	40"	CHANNEL 20
12	J111 602196-900	J200-N 602220-900	COAX	500295	40"	CHANNEL 21
13	J112 602196-900	J200-P 602220-900	COAX	500295	40"	CHANNEL 22
14	J113 602196-900	J200-R 602220-900	COAX	500295	40"	CHANNEL 23
15	J114 602196-900	J200-S 602220-900	COAX	500295	40"	CHANNEL 24
16	J115 602196-900	J200-T 602220-900	COAX	500295	40"	CHANNEL 30
17	J116 602196-900	J200-U 602220-900	COAX	500295	40"	CHANNEL 31
18	J117 602196-900	J200-V 602220-900	COAX	500295	40"	CHANNEL 32
19	J118 602196-900	J200-W 602220-900	COAX	500295	40"	CHANNEL 33
20	J119 602196-900	J200-X 602220-900	COAX	500295	40"	CHANNEL 34
21	J120 602196-900	J201-A 602220-900	COAX	500295	40"	CHANNEL 40
22	J121 602196-900	J201-B 602220-900	COAX	500295	40"	CHANNEL 41
23	J122 602196-900	J201-C 602220-900	COAX	500295	40"	CHANNEL 42
24	J123 602196-900	J201-D 602220-900	COAX	500295	40"	CHANNEL 43
25	J124 602196-900	J201-E 602220-900	COAX	500295	40"	CHANNEL 44

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J125 602196-900	J201-F 602220-900	COAX	500295	40"	CHANNEL 50
27	J126 602196-900	J201-H 602220-900	COAX	500295	40"	CHANNEL 51
28	J127 602196-900	J201-3 602220-900	COAX	500295	40"	CHANNEL 52
29	J128 602196-900	J201-K 602220-900	COAX	500295	40"	CHANNEL 53
30	J129 602196-900	J201-L 602220-900	COAX	500295	40"	CHANNEL 54
31	J130 602196-900	J201-M 602220-900	COAX	500295	40"	CHANNEL 60
32	J131 602196-900	J201-N 602220-900	COAX	500295	40"	CHANNEL 61
33	J132 602196-900	J201-P 602220-900	COAX	500295	40"	CHANNEL 62
34	J133 602196-900	J201-R 602220-900	COAX	500295	40"	CHANNEL63
35	J134 602196-900	J201-S 602220-900	COAX	500295	40"	CHANNEL64
36	J135 602196-900	J201-T 602220-900	COAX	500295	40"	CHANNEL 70
37	J136 602196-900	J201-U 602220-900	COAX	500295	40"	CHANNEL 71
38	J137 602196-900	J201-V 602220-900	COAX	500295	40"	CHANNEL 72
39	J138 602196-900	J201-W 602220-900	COAX	500295	40"	CHANNEL 73
40	J139 602196-900	J201-X 602220-900	COAX	500295	40"	CHANNEL 74
41	J140 602196-900	J202-A 602220-900	COAX	500295	40"	CHANNEL 80
42	J141 602196-900	J202-B 602220-900	COAX	500295	40"	CHANNEL 81
43	J142 602196-900	J202-C 602220-900	COAX	500295	40"	CHANNEL 82
44	J143 602196-900	J202-D 602220-900	COAX	500295	40"	CHANNEL 83
45	J144 602196-900	J202-E 602220-900	COAX	500295	40"	CHANNEL 84
46	J145 602196-900	J202-F 602220-900	COAX	500295	40"	CHANNEL 90
47	J146 602196-900	J202-H 602220-900	COAX	500295	40"	CHANNEL 91
48	J147 602196-900	J202-3 602220-900	COAX	500295	40"	CHANNEL 92
49	J148 602196-900	J202-K 602220-900	COAX	500295	40"	CHANNEL 93

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HARNESS ASSEMBLY, 1260-50D, TTI	**A**	21793	**407290-002**	B
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
50	J149 602196-900	J202-L 602220-900	COAX	500295	40"	CHANNEL 94
51	J150 602196-900	J202-M 602220-900	COAX	500295	40"	CHANNEL 100
52	J151 602196-900	J202-N 602220-900	COAX	500295	40"	CHANNEL 101
53	J152 602196-900	J202-P 602220-900	COAX	500295	40"	CHANNEL 102
54	J153 602196-900	J202-R 602220-900	COAX	500295	40"	CHANNEL 103
55	J154 602196-900	J202-S 602220-900	COAX	500295	40"	CHANNEL 104
56	J155 602196-900	J202-T 602220-900	COAX	500295	40"	CHANNEL 110
57	J156 602196-900	J202-U 602220-900	COAX	500295	40"	CHANNEL 111
58	J157 602196-900	J202-V 602220-900	COAX	500295	40"	CHANNEL 112
59	J158 602196-900	J202-W 602220-900	COAX	500295	40"	CHANNEL 113
60	J159 602196-900	J202-X 602220-900	COAX	500295	40"	CHANNEL 114
61	J160 602196-900	J203-A 602220-900	COAX	500295	40"	CHANNEL 120
62	J161 602196-900	J203-B 602220-900	COAX	500295	40"	CHANNEL 121
63	J162 602196-900	J203-C 602220-900	COAX	500295	40"	CHANNEL 122
64	J163 602196-900	J203-D 602220-900	COAX	500295	40"	CHANNEL 123
65	J164 602196-900	J203-E 602220-900	COAX	500295	40"	CHANNEL 124
66	J165 602196-900	J203-F 602220-900	COAX	500295	40"	CHANNEL 130
67	J166 602196-900	J203-H 602220-900	COAX	500295	40"	CHANNEL 131
68	J167 602196-900	J203-3 602220-900	COAX	500295	40"	CHANNEL 132
69	J168 602196-900	J203-K 602220-900	COAX	500295	40"	CHANNEL 133
70	J169 602196-900	J203-L 602220-900	COAX	500295	40"	CHANNEL 134
71	J170 602196-900	J203-M 602220-900	COAX	500295	40"	CHANNEL 140
72	J171 602196-900	J203-N 602220-900	COAX	500295	40"	CHANNEL 141
73	J172 602196-900	J203-P 602220-900	COAX	500295	40"	CHANNEL 142
74	J173 602196-900	J203-R 602220-900	COAX	500295	40"	CHANNEL 143

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
75	J174 602196-900	J203-S 602220-900	COAX	500295	40"	CHANNEL 144
76	J175 602196-900	J203-T 602220-900	COAX	500295	40"	CHANNEL 150
77	J176 602196-900	J203-U 602220-900	COAX	500295	40"	CHANNEL 151
78	J177 602196-900	J203-V 602220-900	COAX	500295	40"	CHANNEL 152
79	J178 602196-900	J203-W 602220-900	COAX	500295	40"	CHANNEL 153
80	J179 602196-900	J203-X 602220-900	COAX	500295	40"	CHANNEL 154

RACAL Instruments, Inc., 4 Goodyear ST. Irvine CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-50D, TTI	**A**	21793	**407290-002**	B
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Chapter 7
PRODUCT SUPPORT

Product Support

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

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

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

Reshipment Instructions

Use the original packing material when returning the 1260-50C/D to Racal Instruments for calibration or servicing. The original shipping crate and associated packaging material will provide the necessary protection for safe reshipment.

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

Support Offices

Racal Instruments, Inc.
4 Goodyear St., Irvine, CA 92618-2002
Tel: (800) RACAL-ATE, (800) 722-2528,
(949) 859-8999; FAX: (949) 859-7139

Racal Instruments, Ltd.
480 Bath Road, Slough, Berkshire, SL1 6BE, United Kingdom
Tel: +44 (0) 1628 604455; FAX: +44 (0) 1628 662017

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

Racal Systems Elettronica s.r.l.
Strada 2-Palazzo C4, 20090 Milanofiori Assago, Milan, Italy
Tel: +39 (0)2 5750 1796; FAX +39 (0)2 5750 1828

Racal Elektronik System GmbH.
Technologiepark Bergisch Gladbach, Friedrich-Ebert-Strasse,
D-51429 Bergisch Gladbach, Germany
Tel.: +49 2204 8442 00; FAX: +49 2204 8442 19

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

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 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 Ship instruments to nearest support office.
Note: We do not accept "collect" shipments.

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