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1260 VXI
SWITCHING CARD

1260-50C/D
200MHz
MULTIPLEXER MODULE

PUBLICATION NO. 980673-028

RACAL INSTRUMENTS

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PUBLICATION DATE: FEBRUARY 18, 2003

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This warranty is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular use. The remedies provided herein are buyer's sole and exclusive remedies.

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

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

You may contact your customer service advisor by:

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

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RETURN of PRODUCT

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

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FOR YOUR SAFETY

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

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

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

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

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

Before operating this instrument:

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

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

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

If the instrument:

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

Do not operate until performance is checked by qualified personnel.

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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 Tense
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.

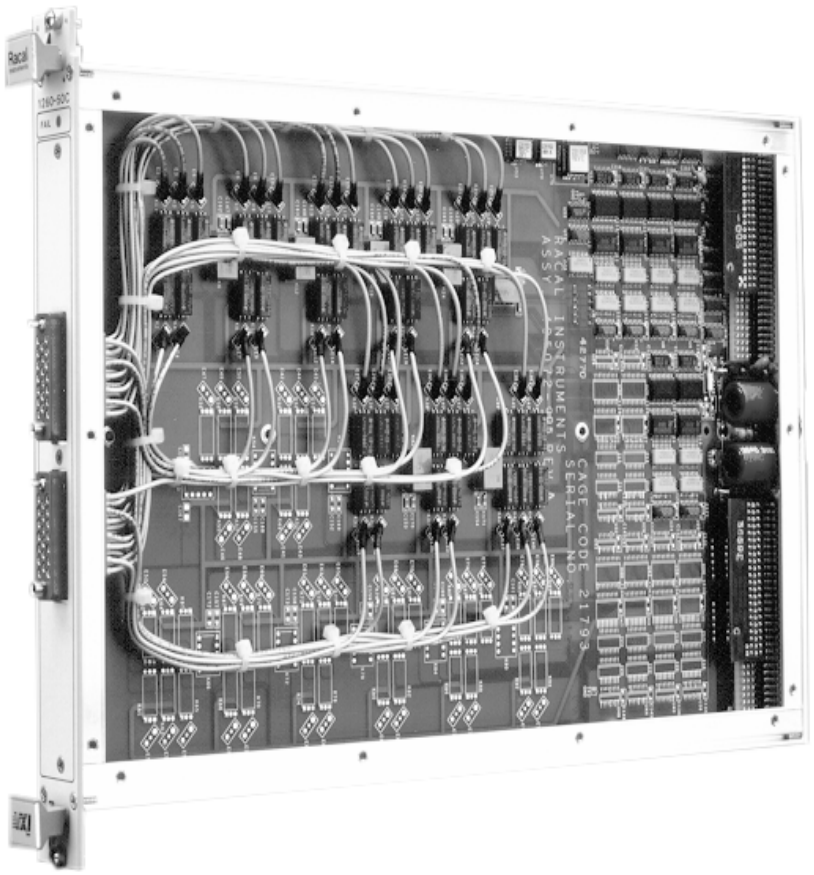


Figure 1-1, 1260-50C/D

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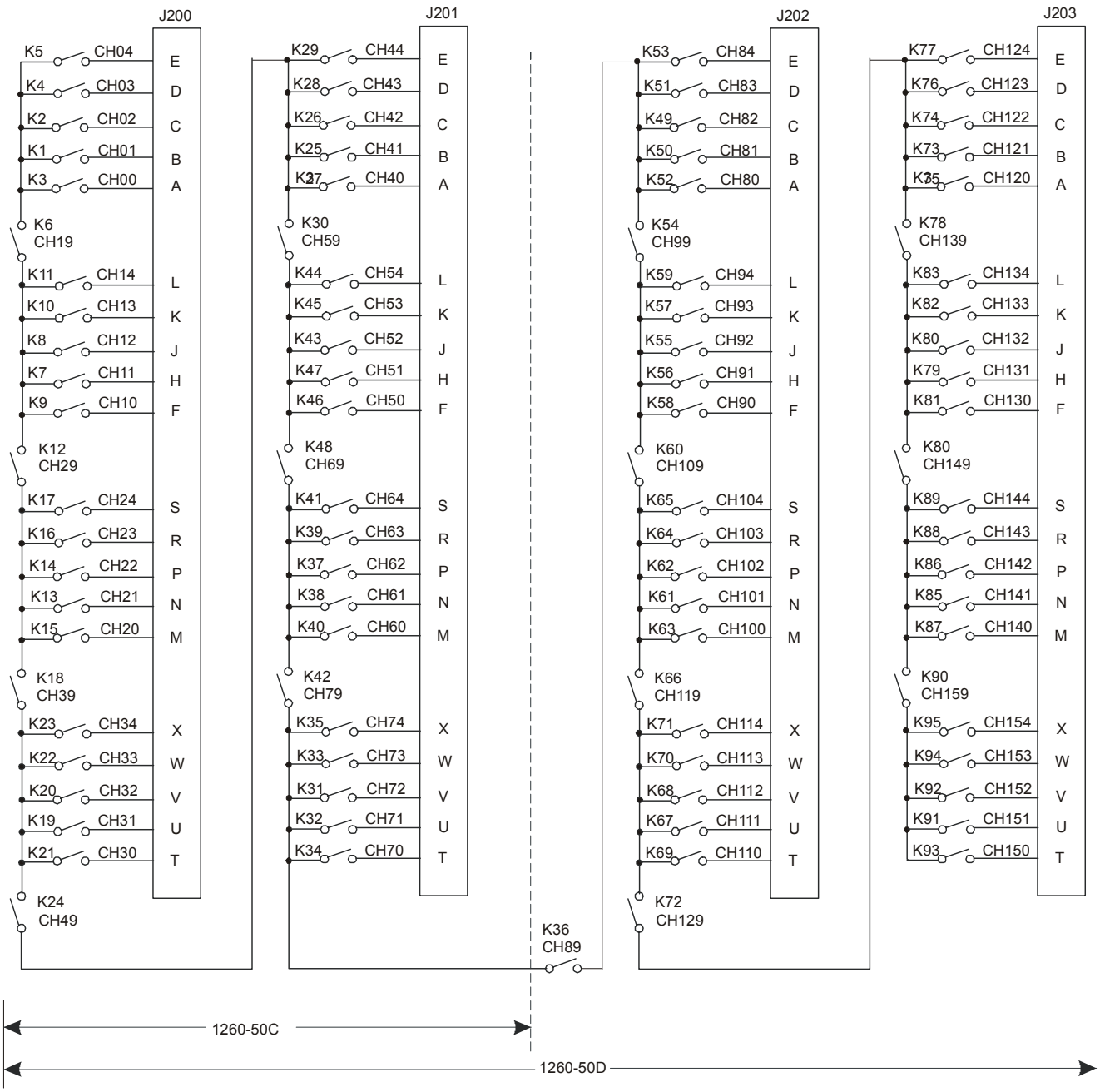


Figure 1-2, 1260-50C/D Functional Diagram

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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

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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 ± 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.

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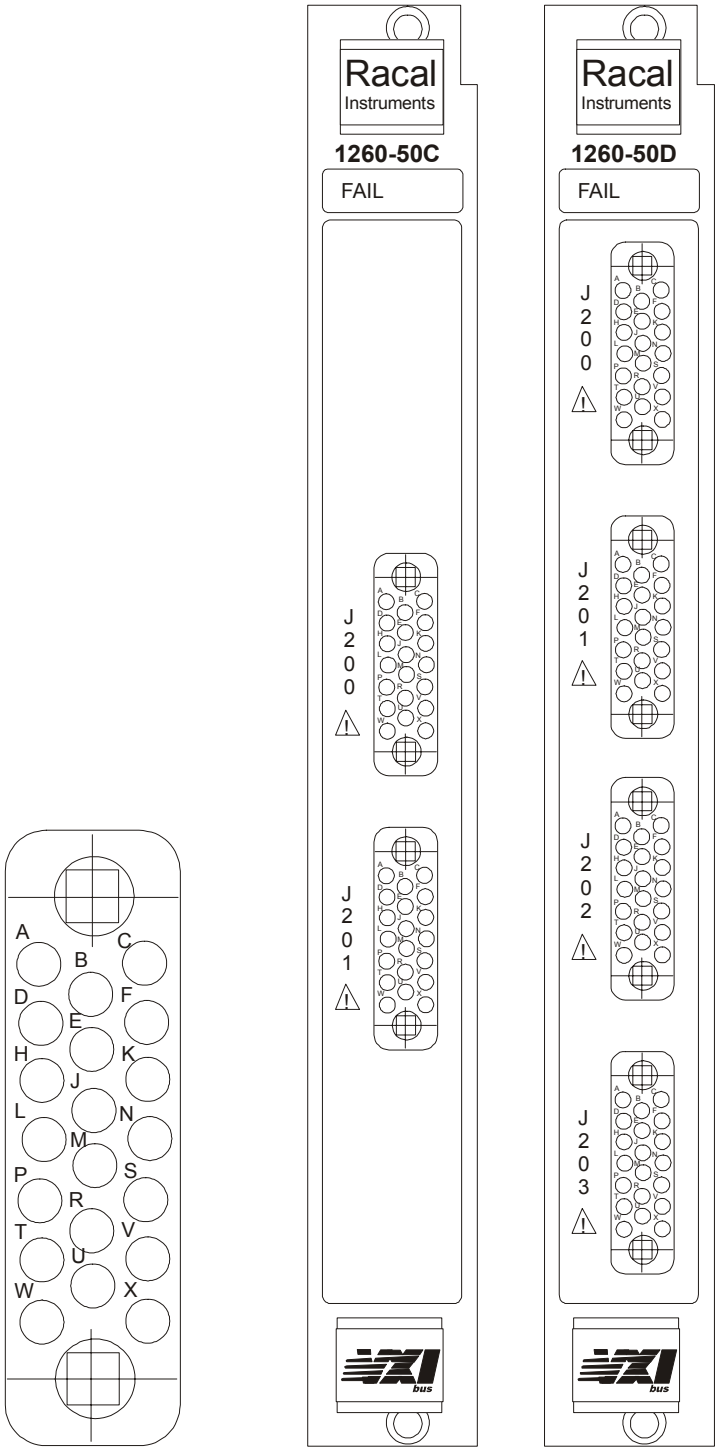


Figure 1-3, 1260-50C/D Front Panel and J200-J203 Connector Pin Configuration

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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

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Chapter 2
INSTALLATION INSTRUCTIONS

Unpacking and Inspection

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

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

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

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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

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Chapter 4
DRAWINGS

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

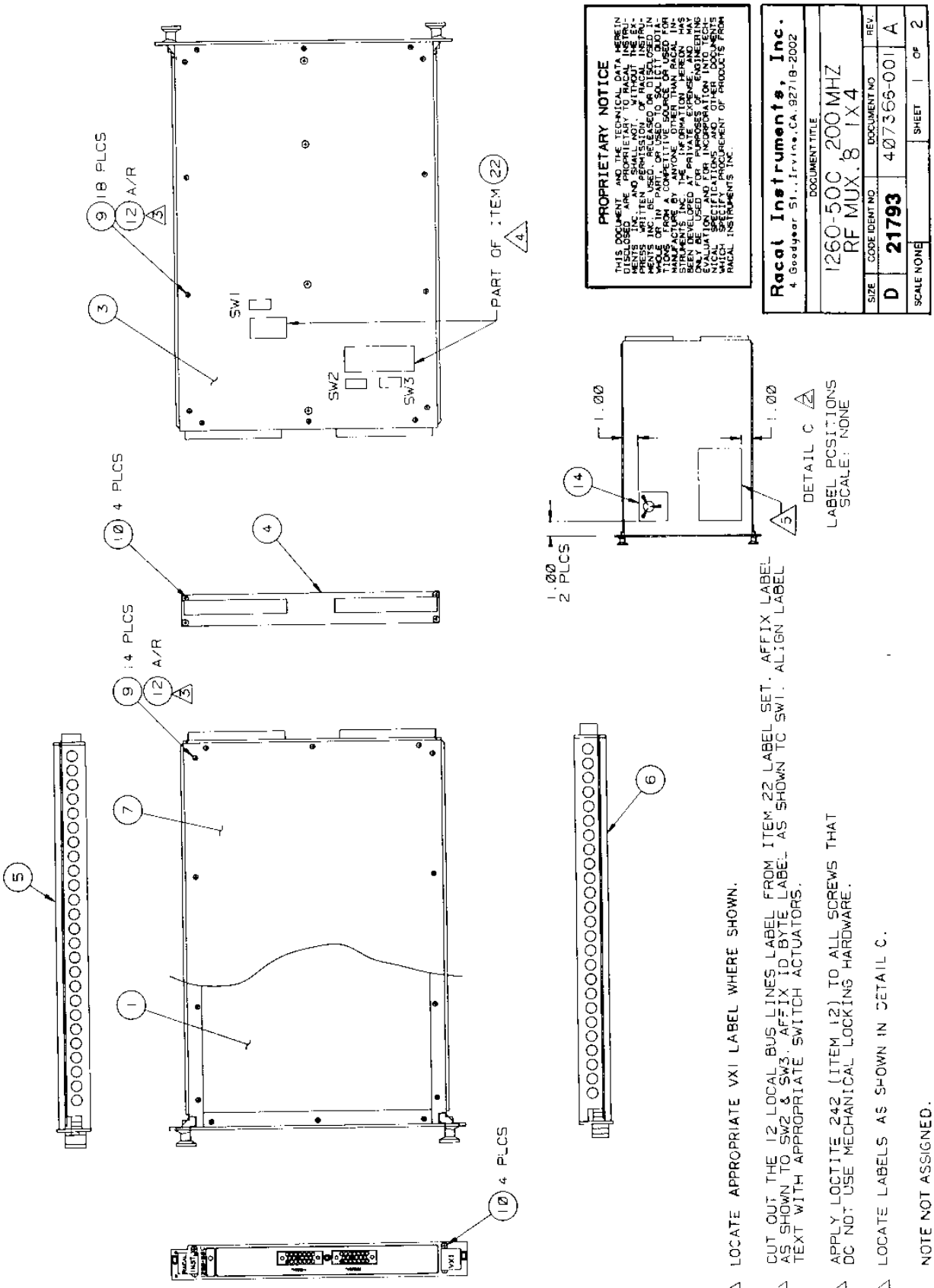
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435072, Schematic, 1260-50 4-7

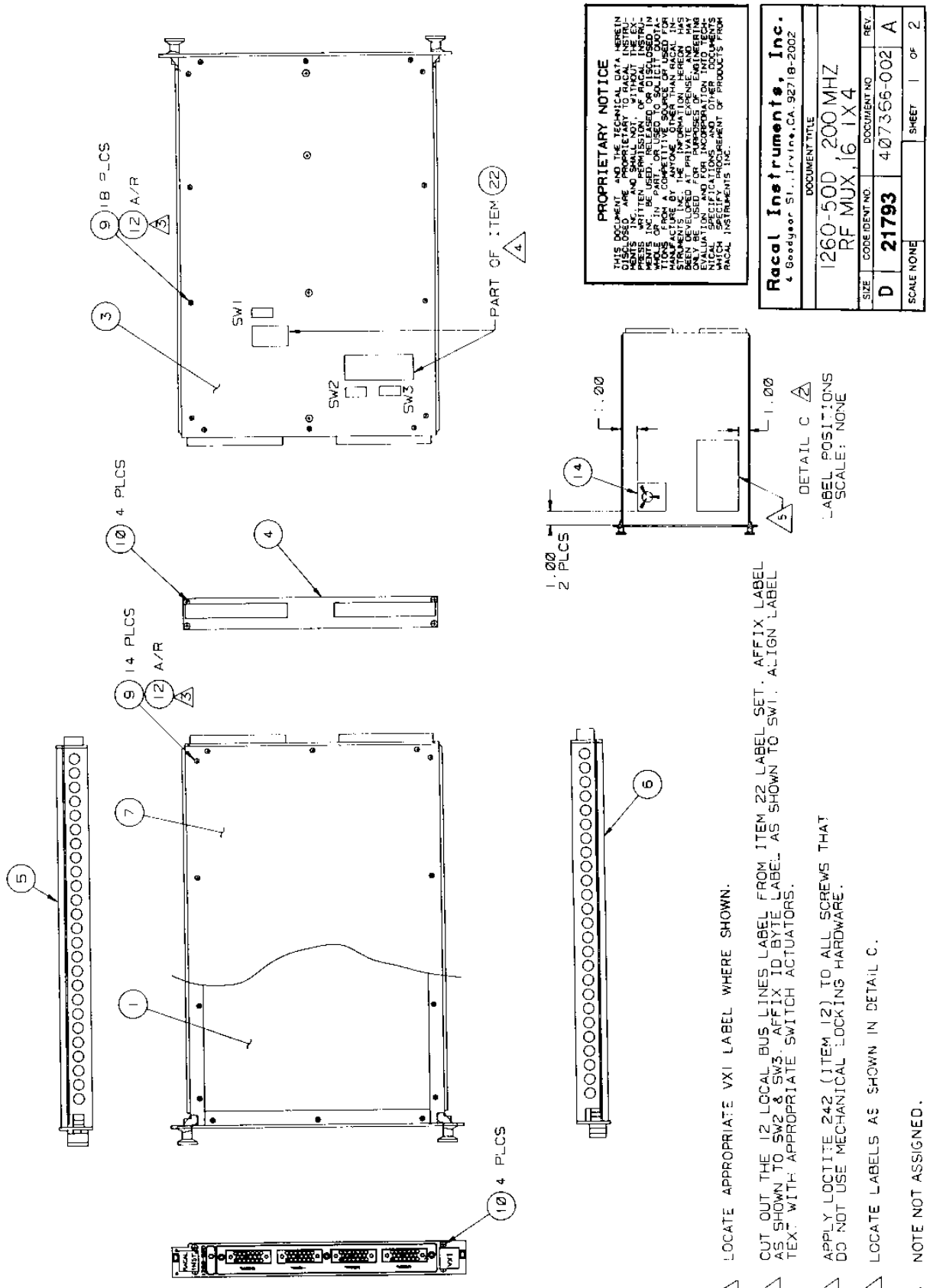
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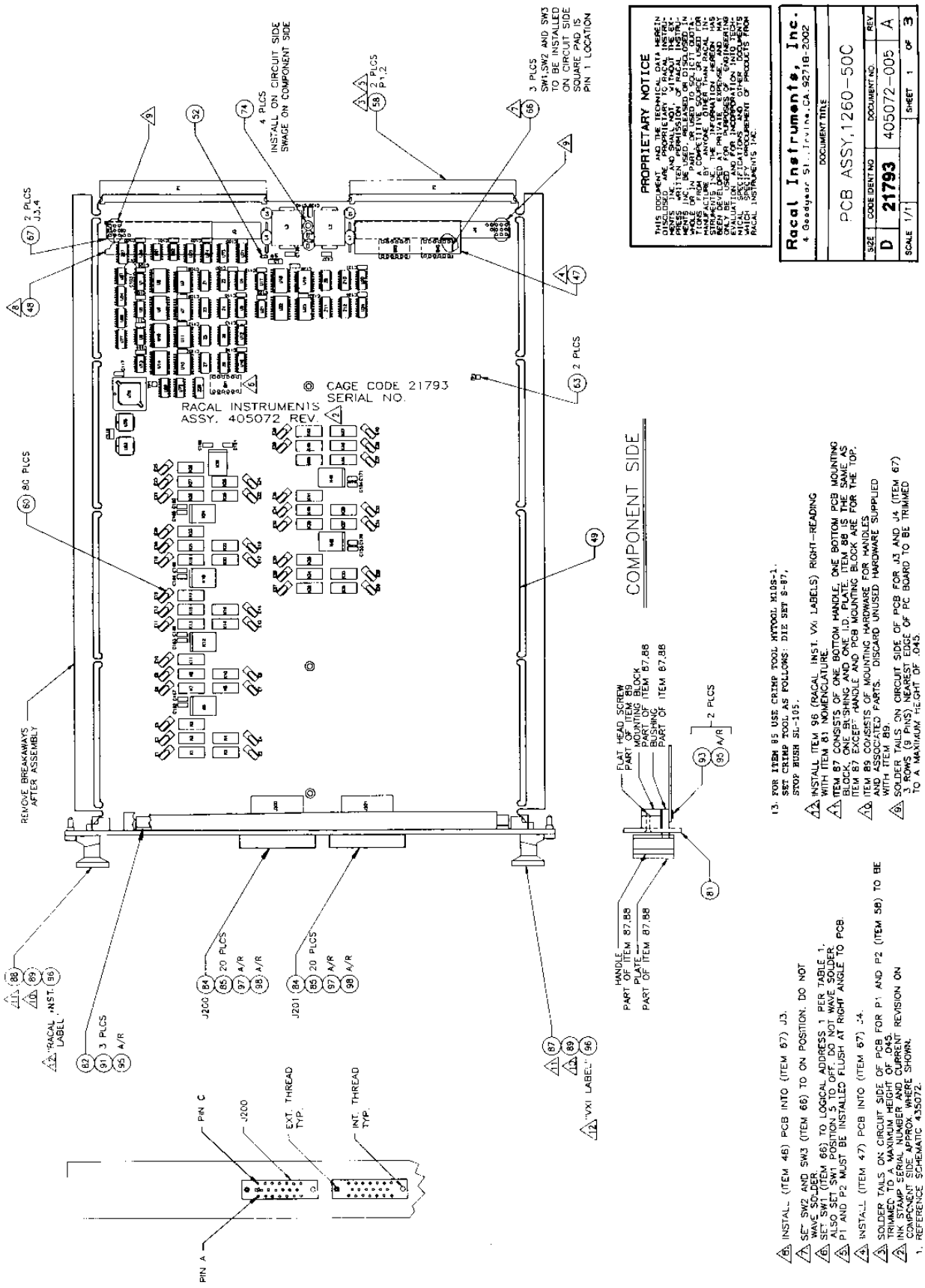
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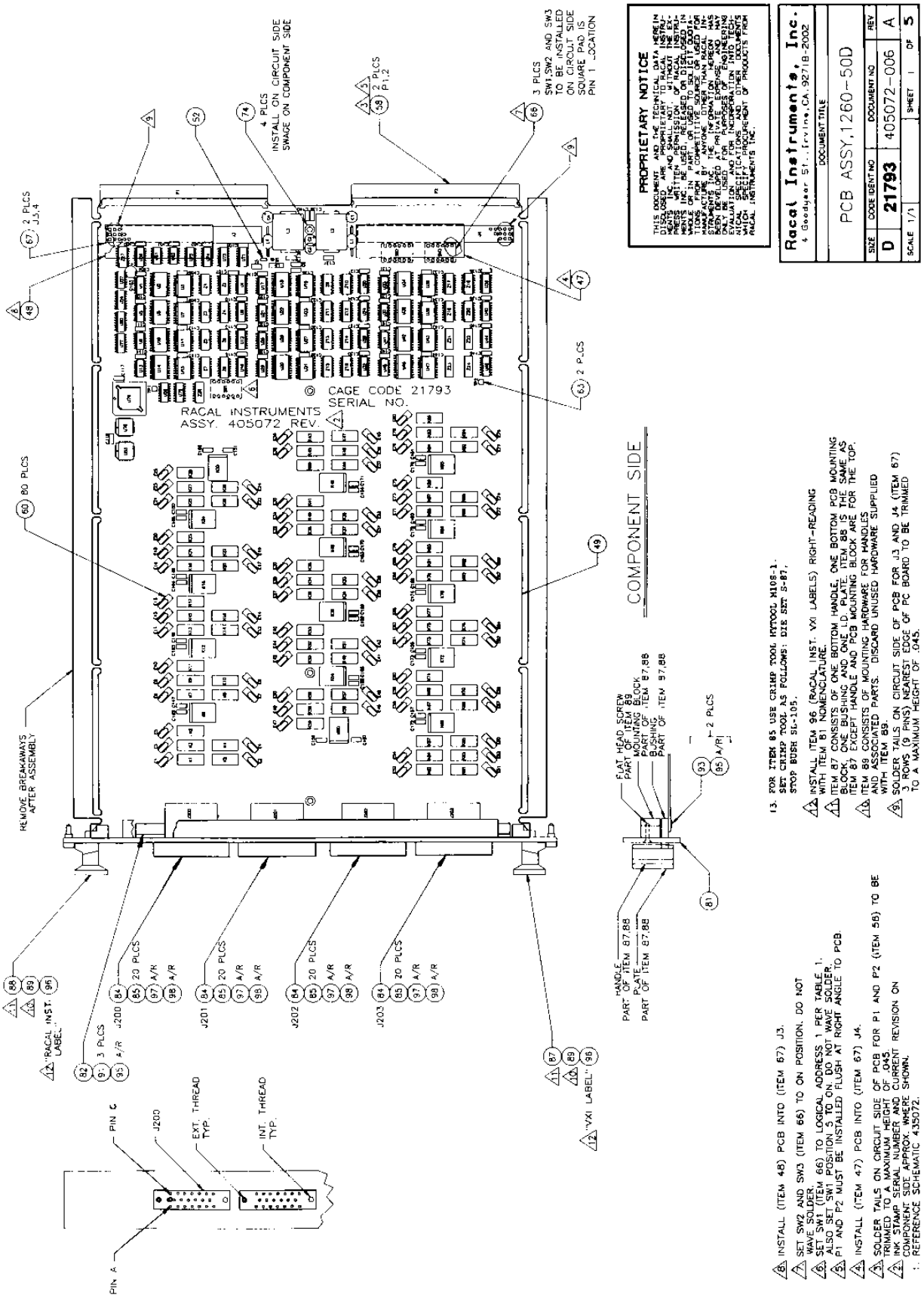
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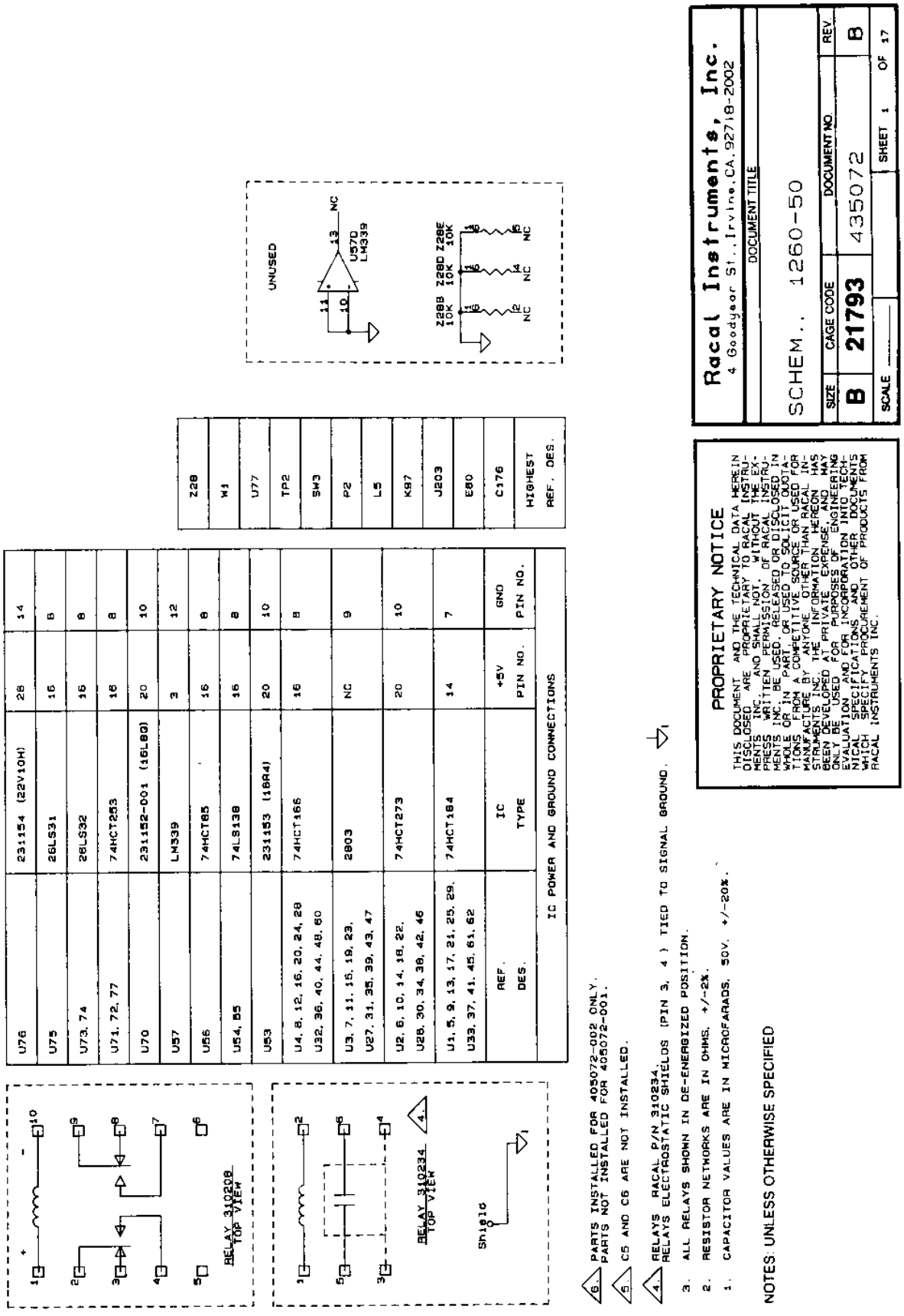
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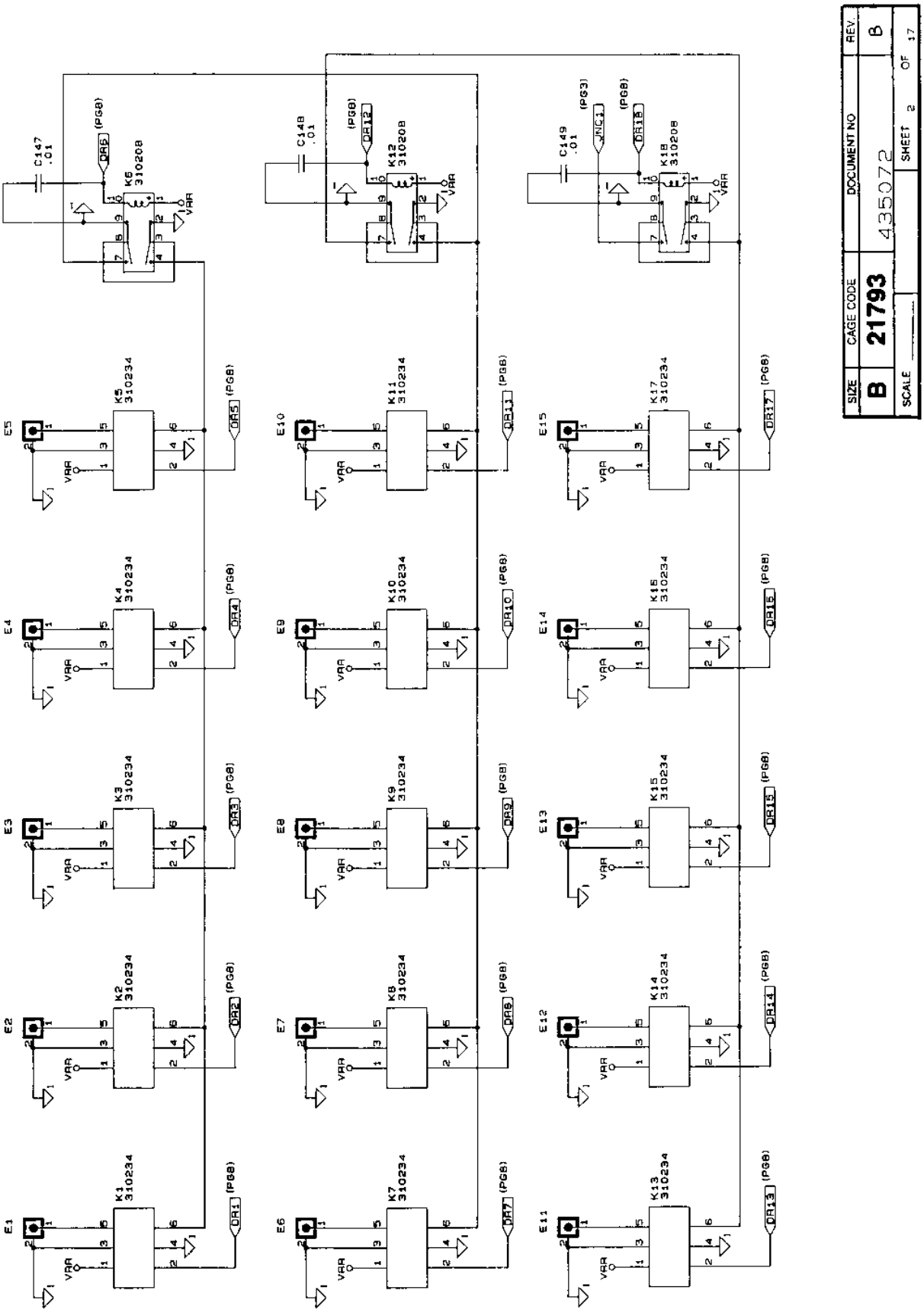
REF. DES.	IC TYPE	+5V PIN NO.	GND PIN NO.
IC POWER AND GROUND CONNECTIONS			
U1, 5, 9, 13, 17, 21, 25, 29, U33, 37, 41, 45, 61, 62	74HCT184	14	7
U2, 6, 10, 14, 18, 22, U28, 30, 34, 38, 42, 46	74HCT273	20	10
U3, 7, 11, 15, 19, 23, U27, 31, 35, 39, 43, 47	2803	NC	9
U4, 8, 12, 16, 20, 24, 28 U32, 36, 40, 44, 48, 60	74HCT166	16	8
U53	231153 (16R4)	20	10
U54, 55	74LS138	16	8
U56	74HCT85	16	8
U57	LM339	3	12
U70	231152-001 (16L8B)	20	10
U71, 72, 77	74HCT253	16	8
U73, 74	26LS32	16	8
U75	26LS31	16	8
U76	231154 (22V10H)	28	14

REF. DES.
Z28
W1
U77
TP2
SW3
P2
L5
K97
J203
E80
C176
HIGHEST REF. DES.

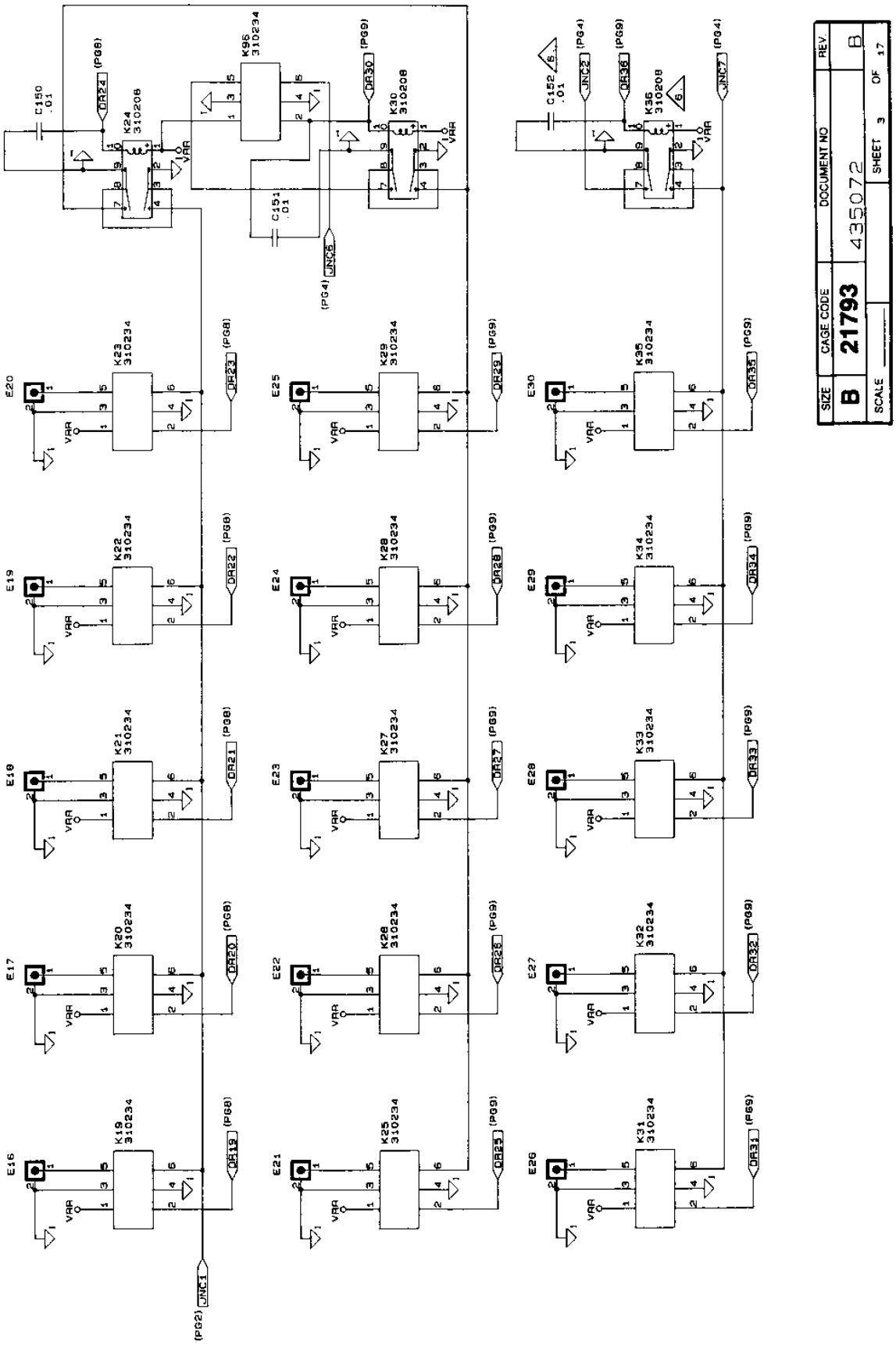
6. PARTS INSTALLED FOR 405072-002 ONLY.
PARTS NOT INSTALLED FOR 405072-001.
5. C5 AND C6 ARE NOT INSTALLED.
4. RELAYS RACAL P/N 310234.
RELAYS ELECTROSTATIC SHIELDS (PIN 3, 4) TIED TO SIGNAL GROUND.
3. ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.
2. RESISTOR NETWORKS ARE IN OHMS. +/-2%.
1. CAPACITOR VALUES ARE IN MICROFARADS, 50V, +/-20%.

NOTES: UNLESS OTHERWISE SPECIFIED

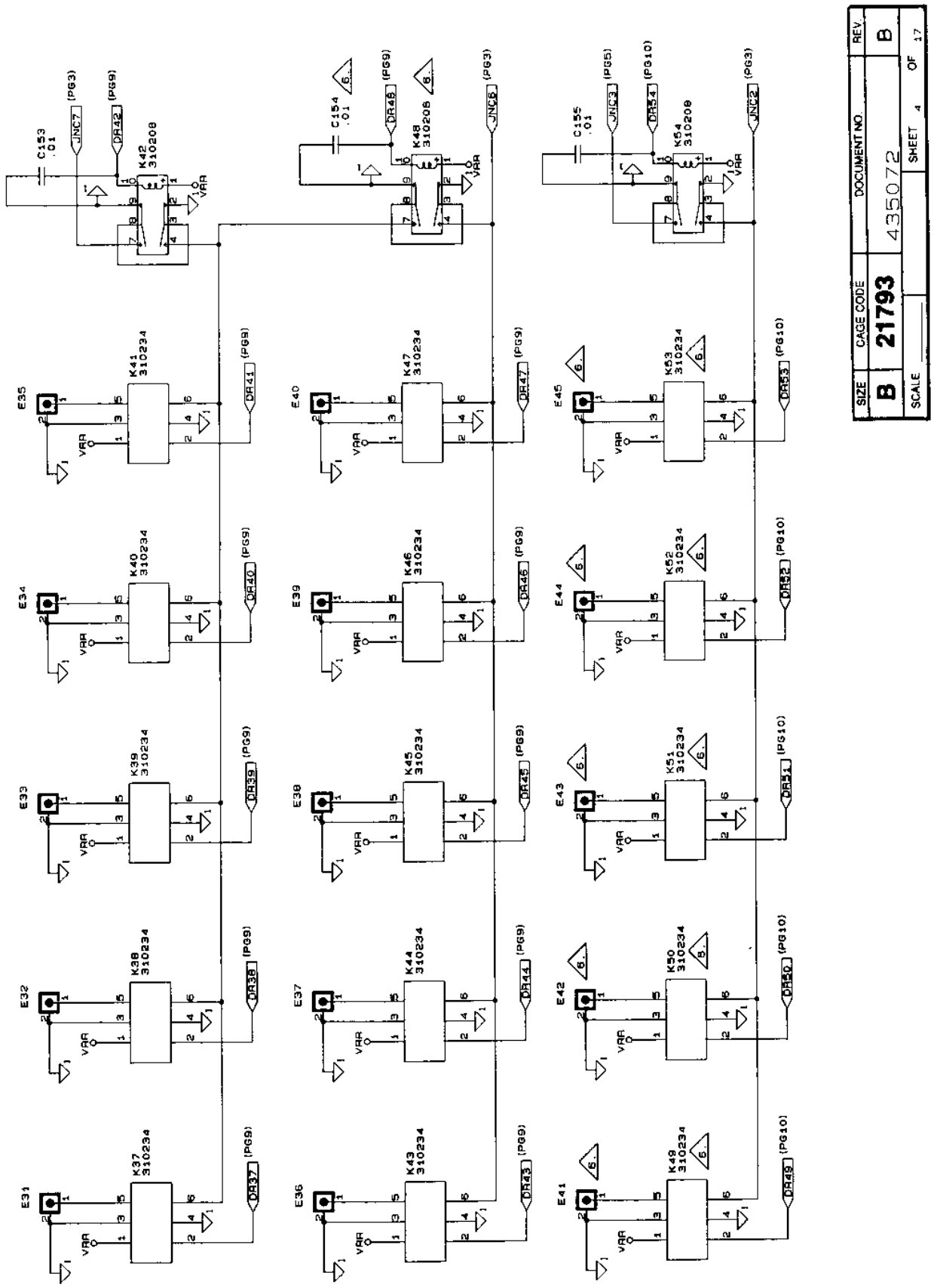
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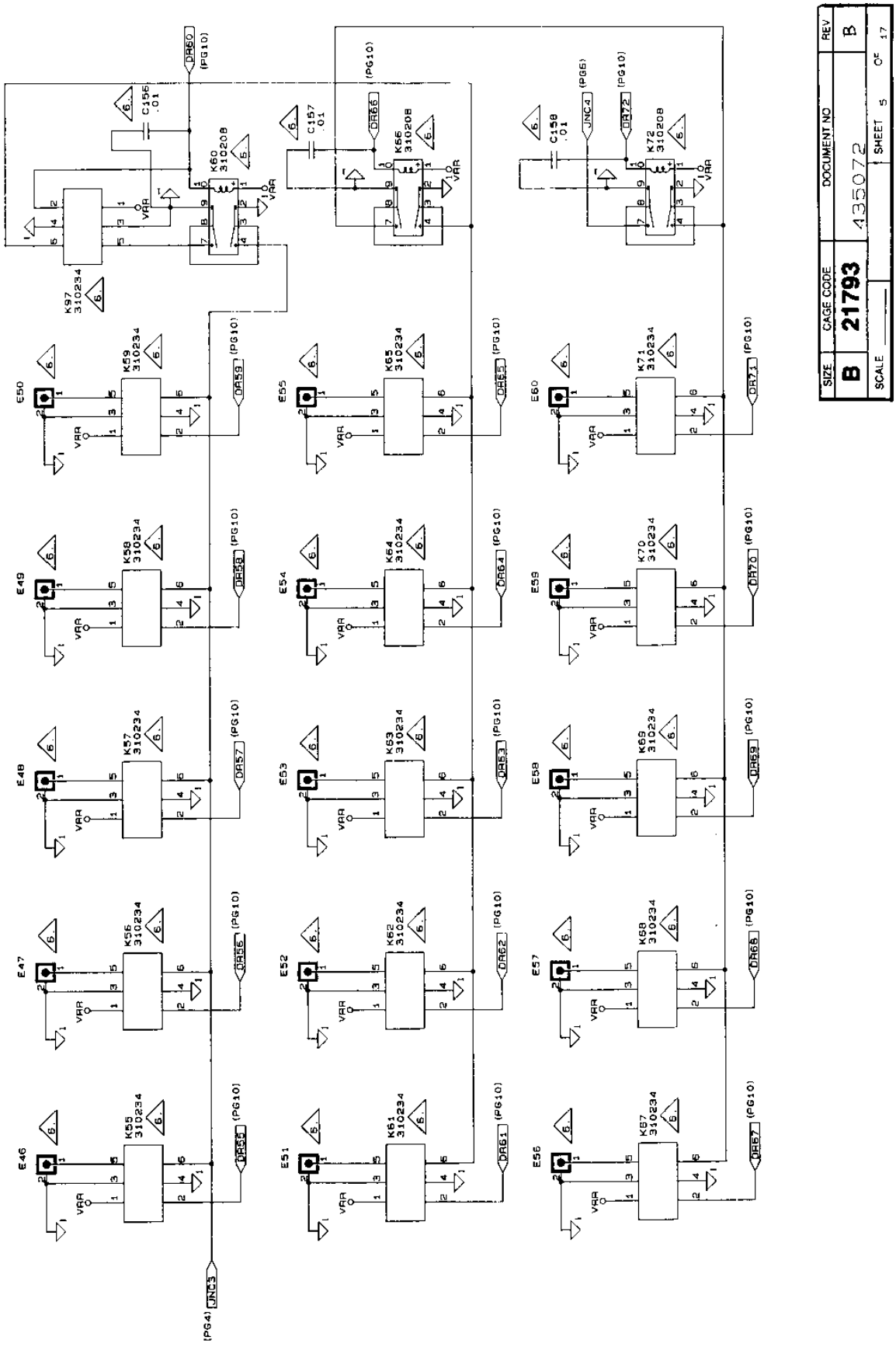
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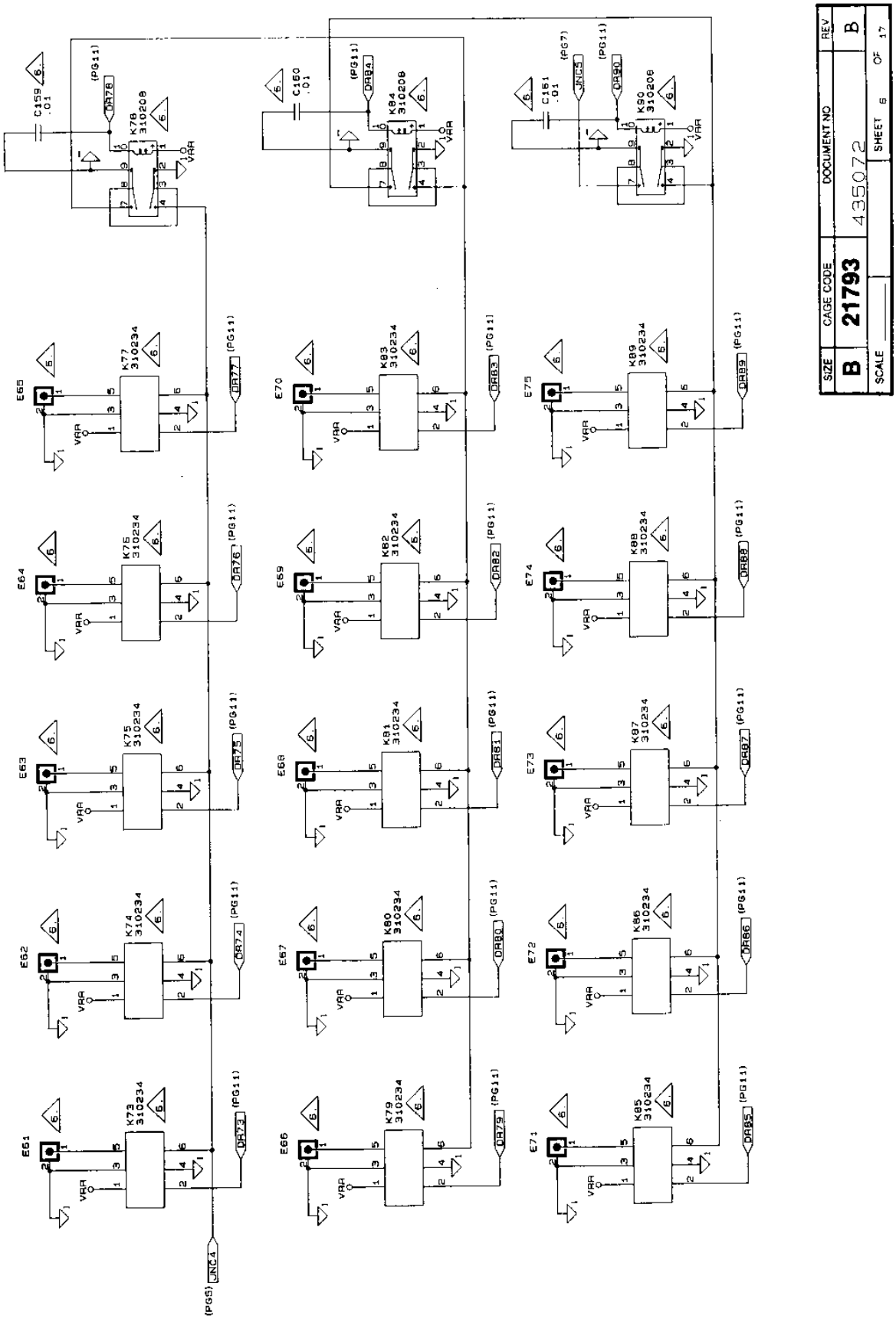
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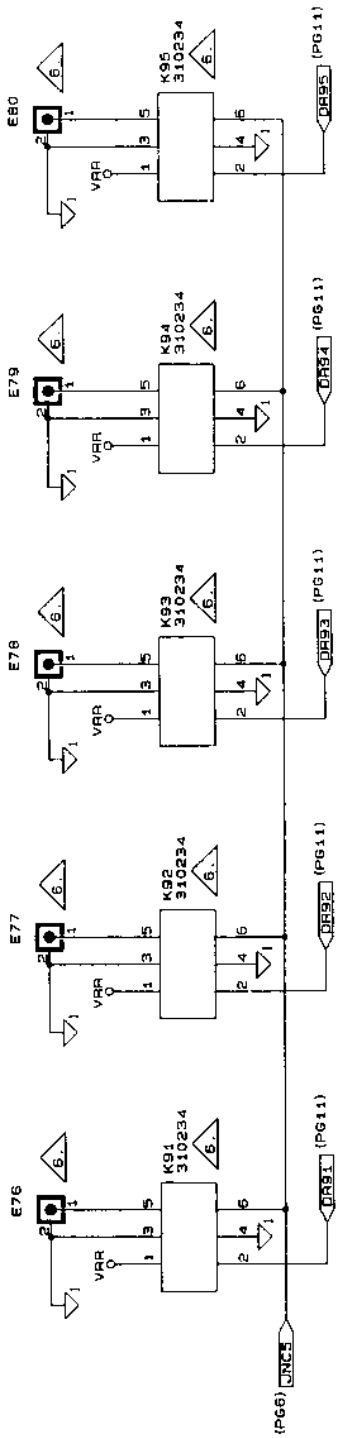
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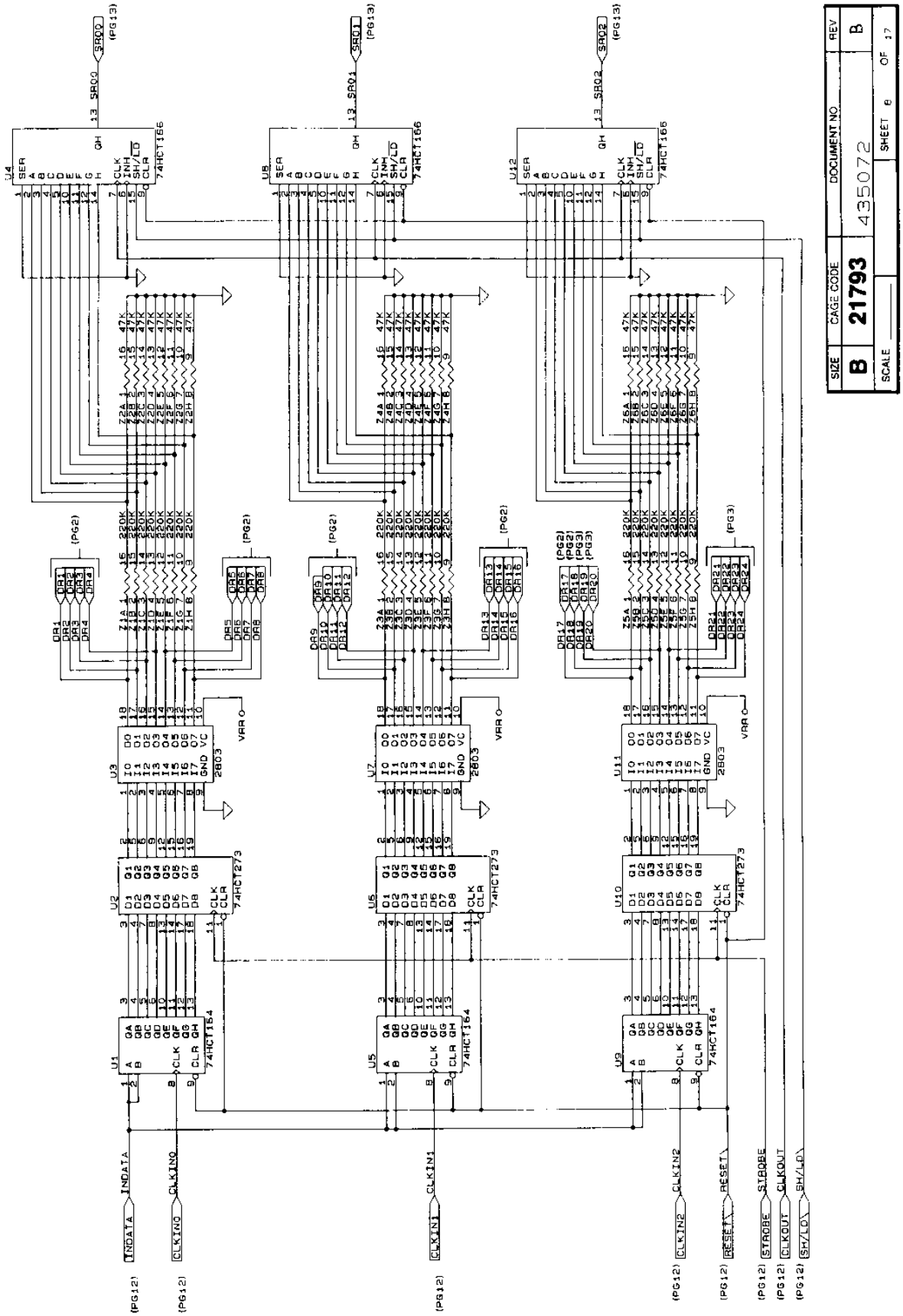


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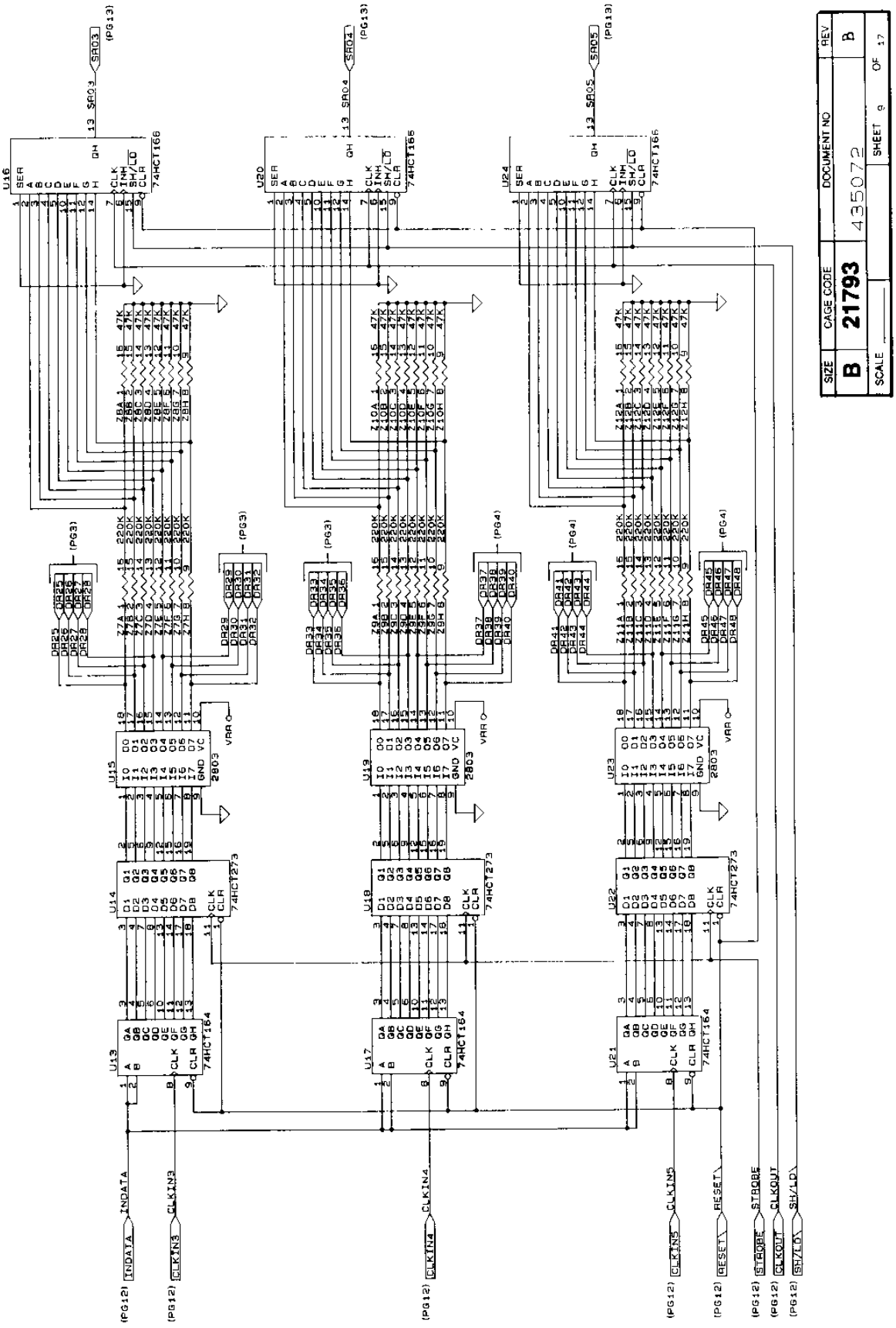


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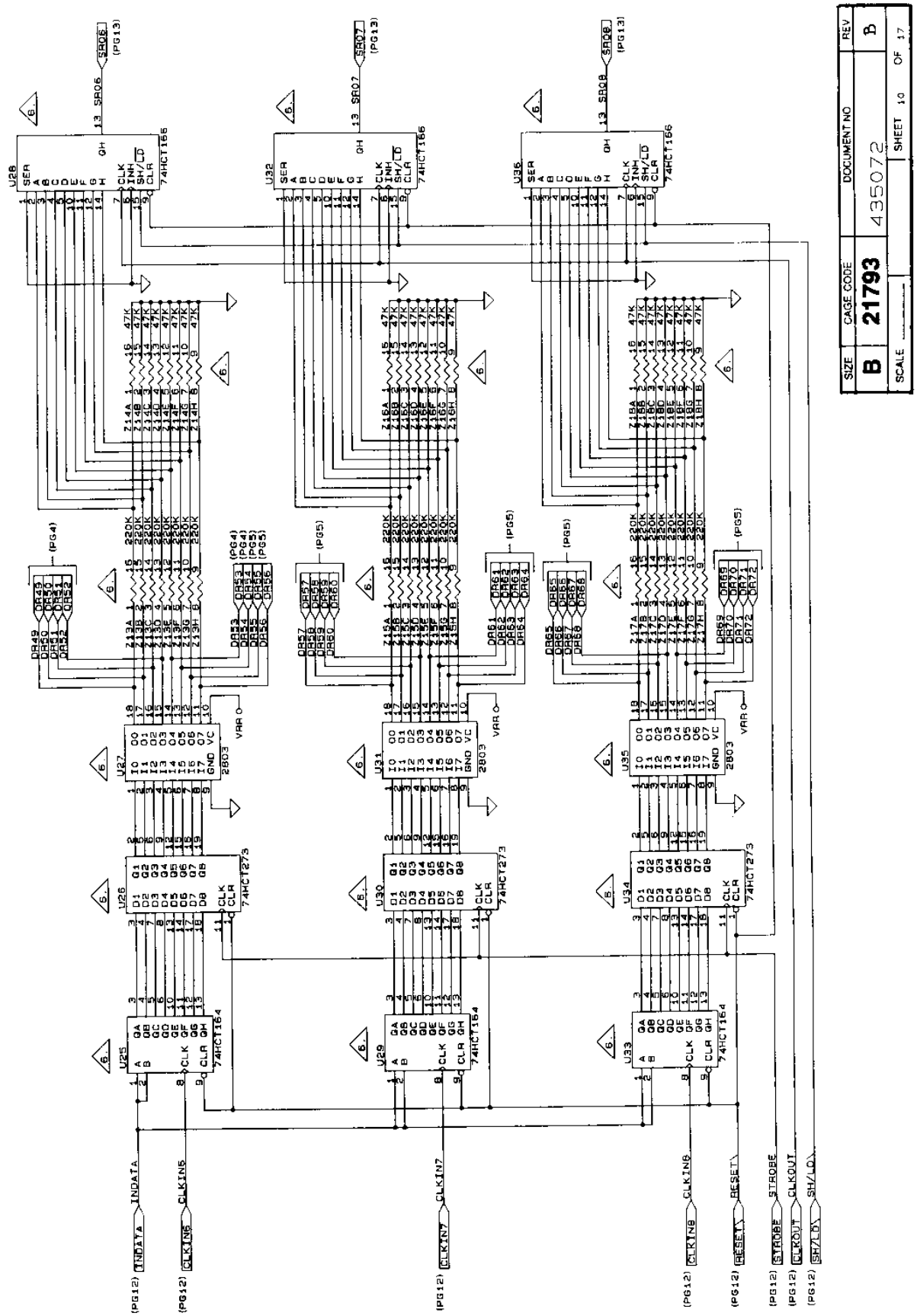
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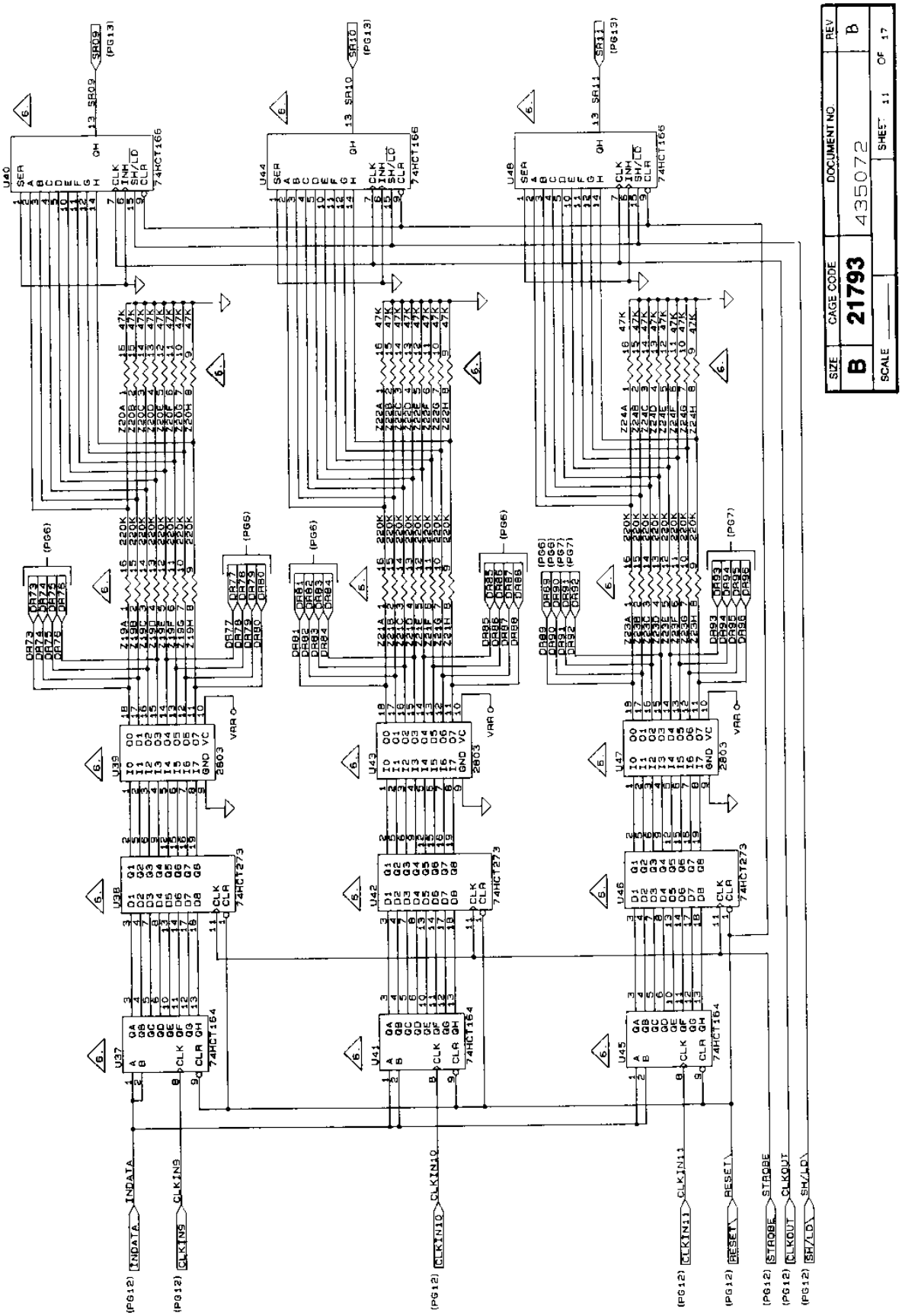


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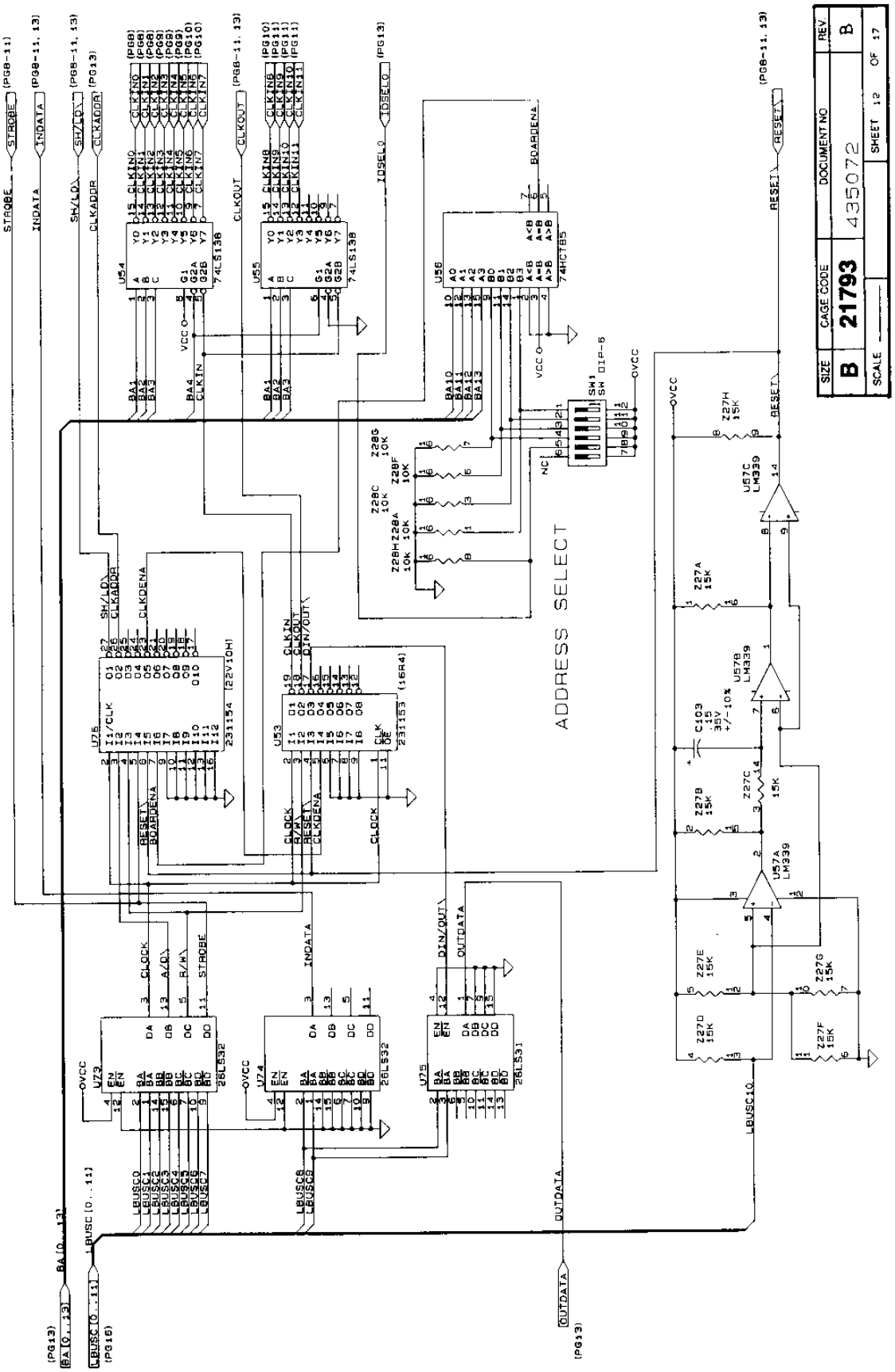


SIZE	CAGE CODE	DOCUMENT NO	REV
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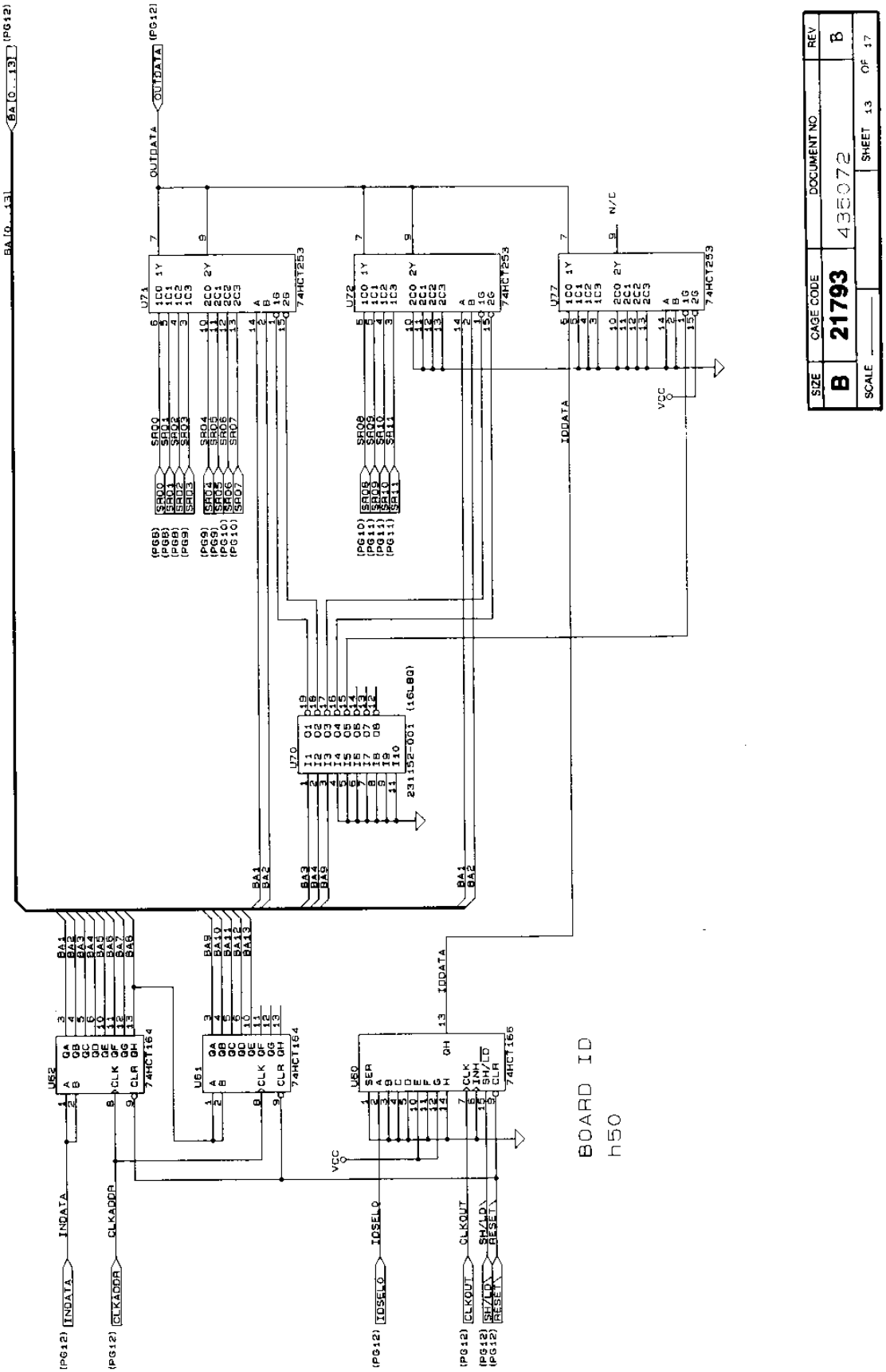
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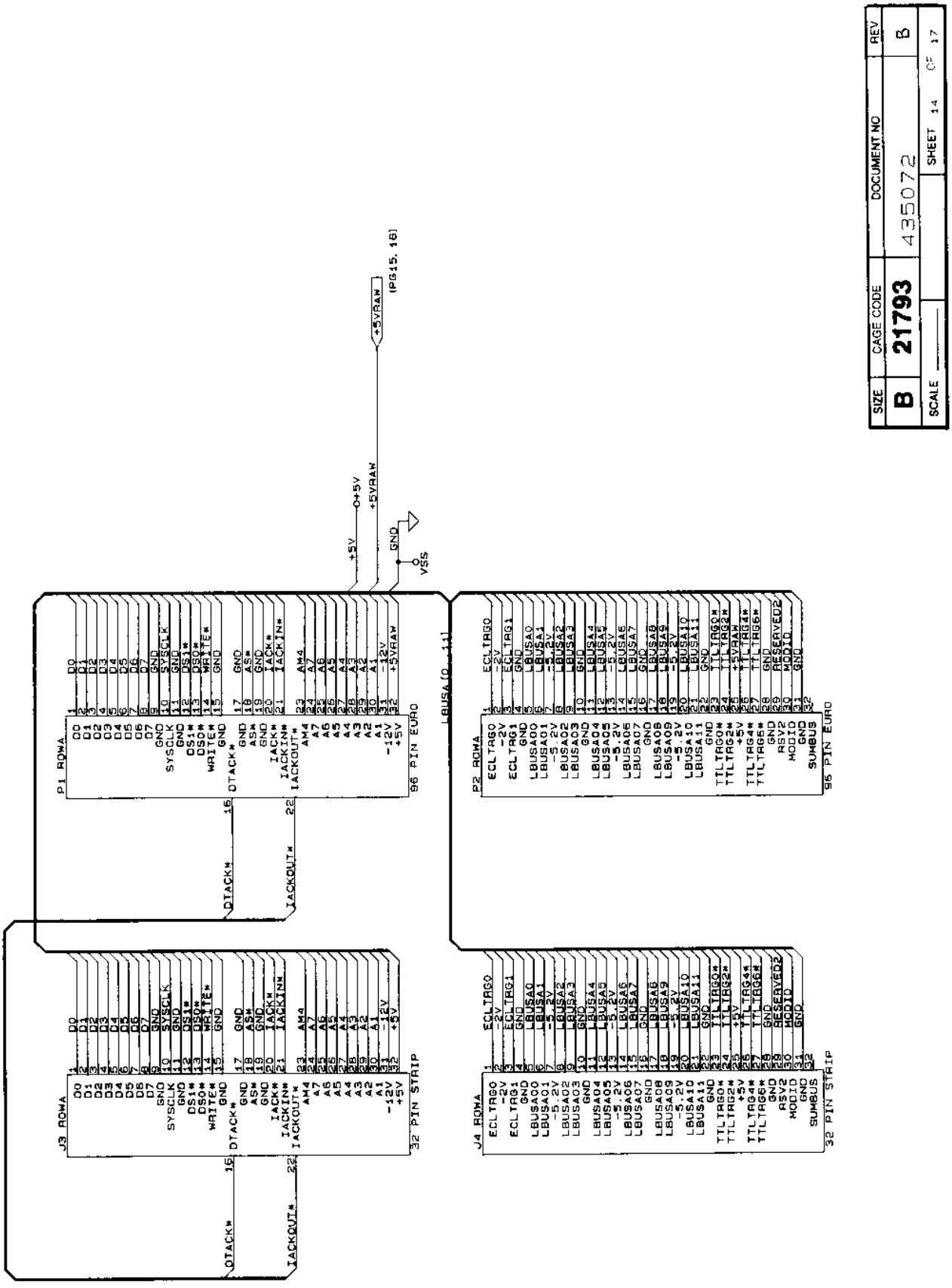
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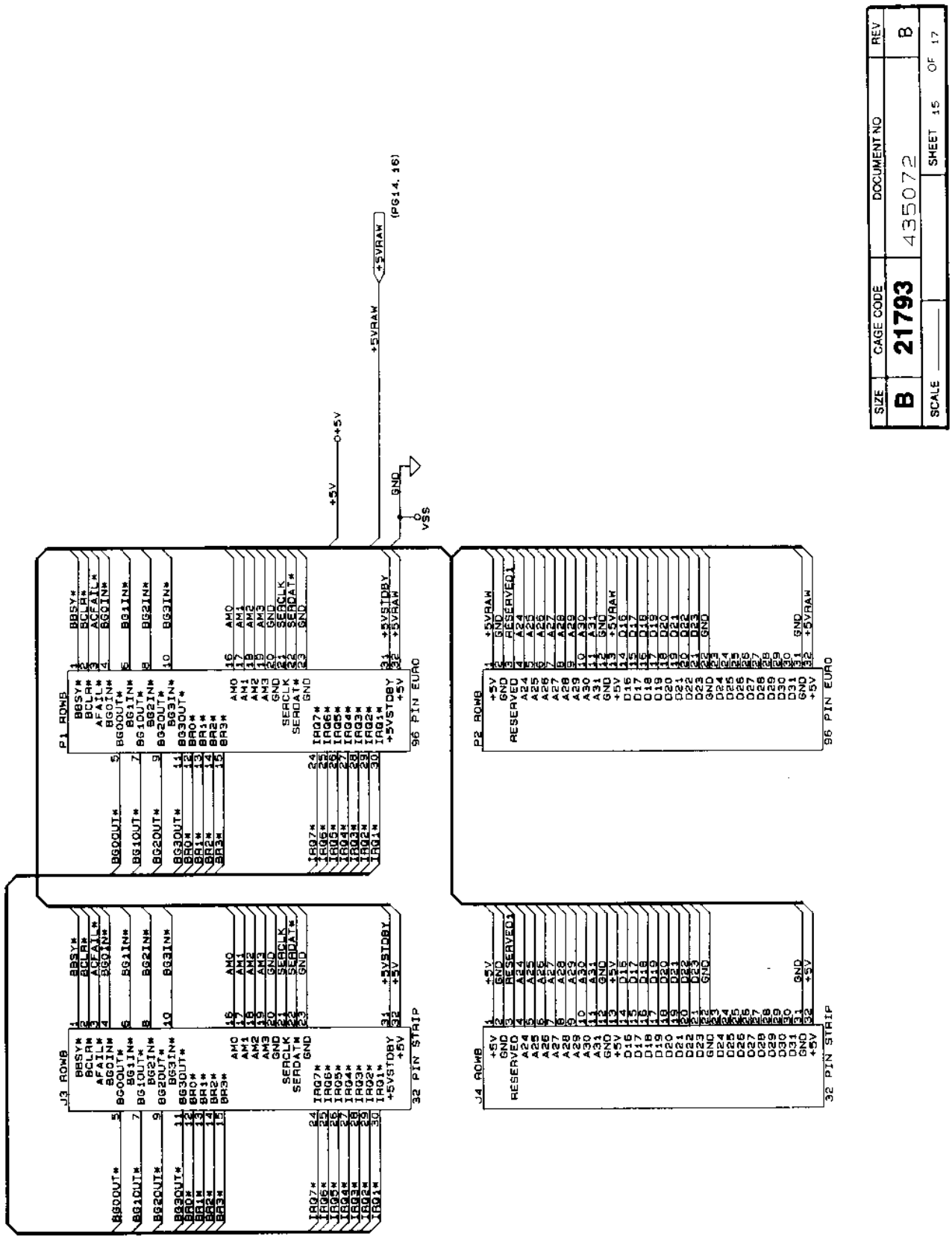
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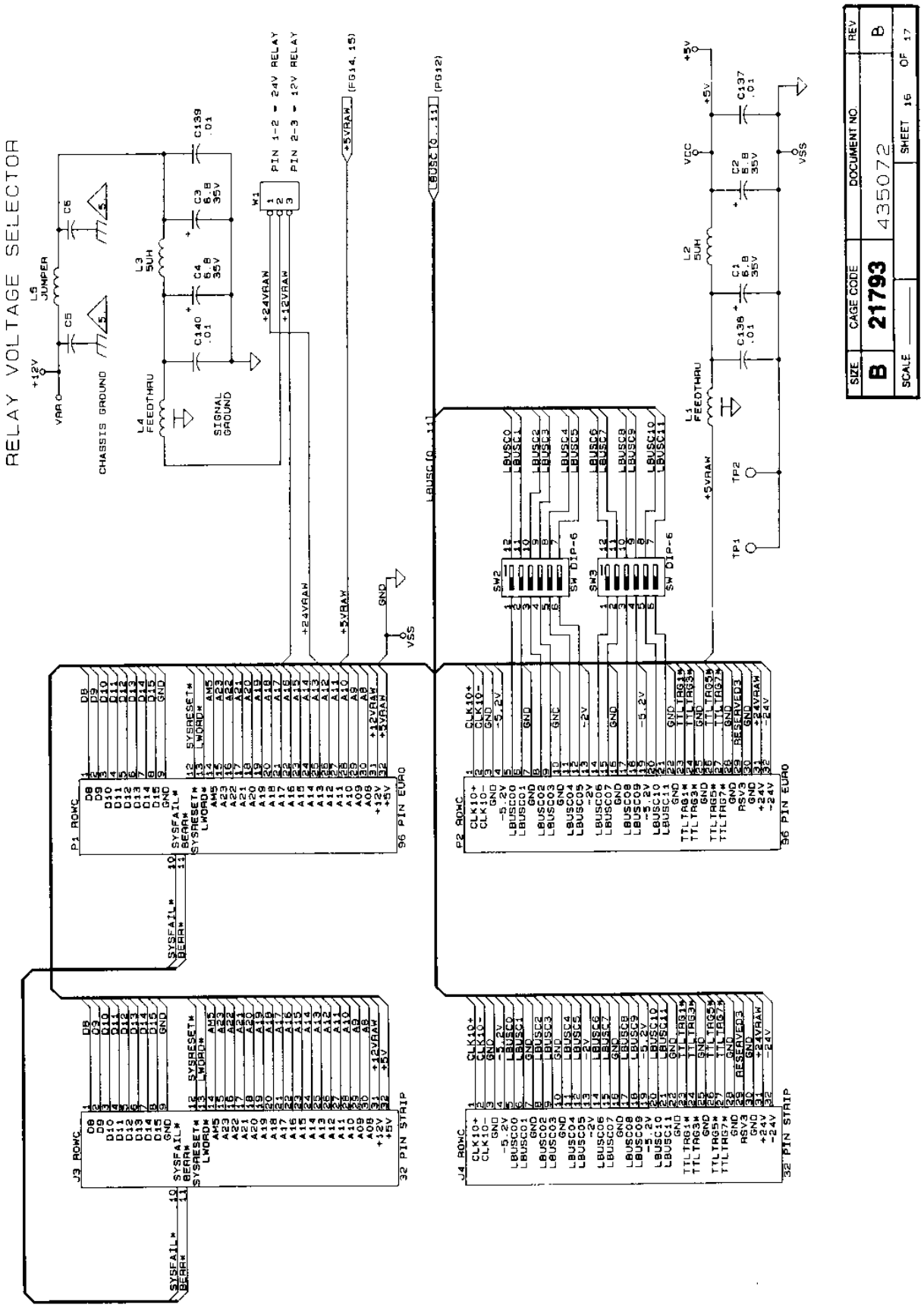
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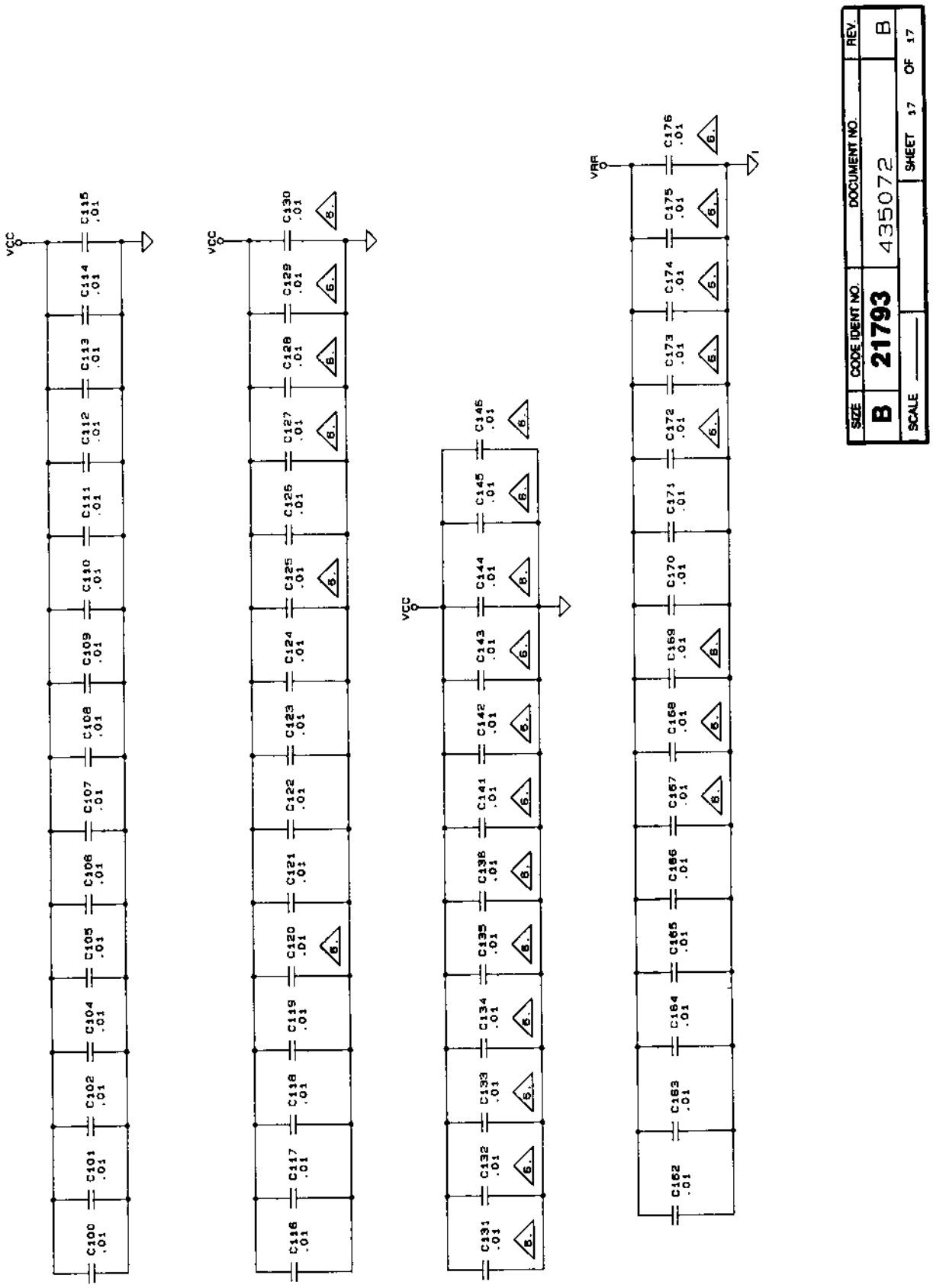
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Chapter 5
PARTS LIST

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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

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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	T355F685M035AS
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

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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

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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

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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

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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

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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

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

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Chapter 6

OPTIONAL HARNESS ASSEMBLIES

The following harness assemblies are used to connect Racal Instruments Model 1260-50C/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)

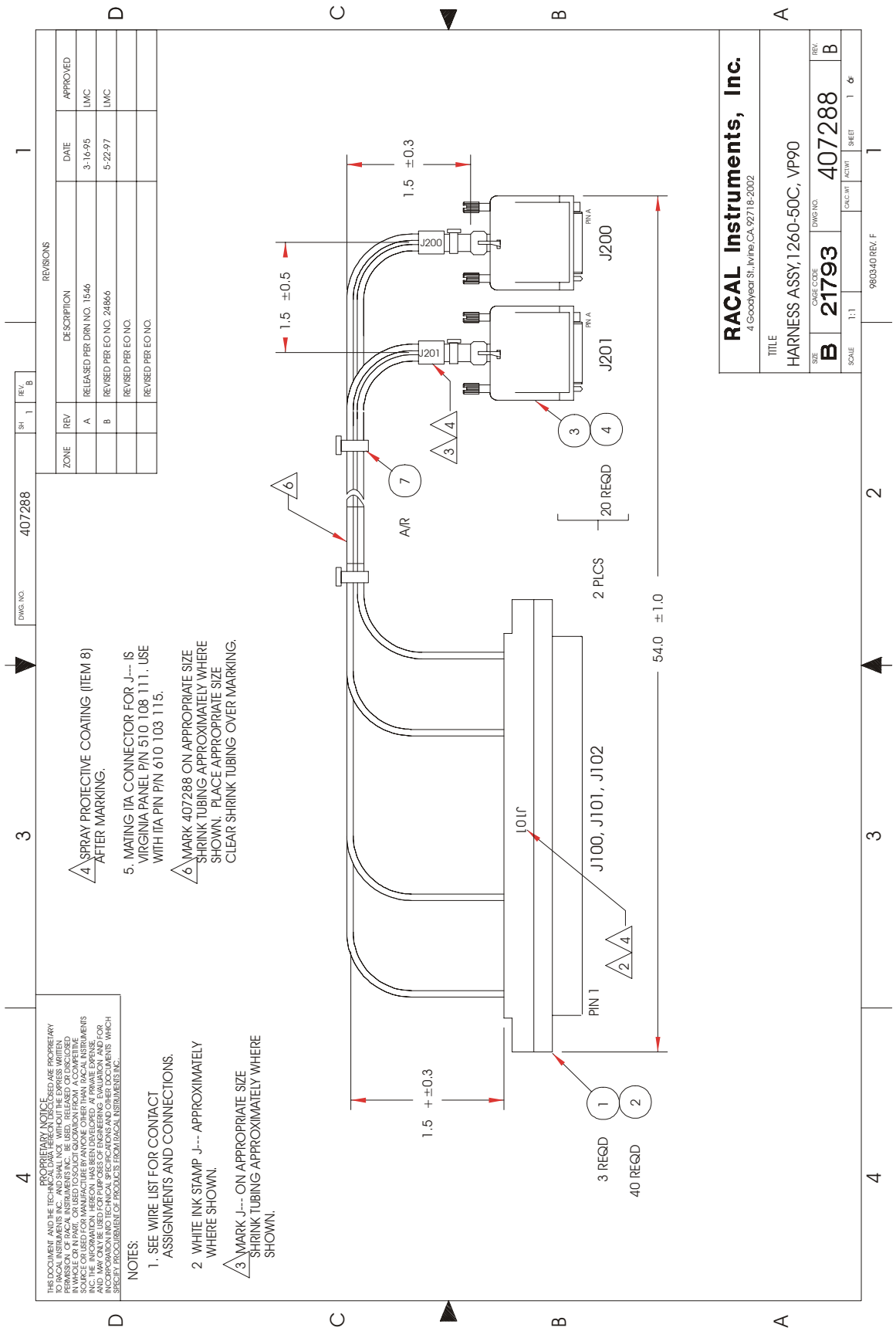
407290-002, 1260-50C TTI Testron, Inc. Interface Harness 6-22
(TTI Receiver must be above chassis)

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

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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	

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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

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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

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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 36	J101-16 J101-17	NO CONNECT NO CONNECT				
37 38	J101-18 J101-19	NO CONNECT 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 50	J102-11 J102-12	NO CONNECT 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	

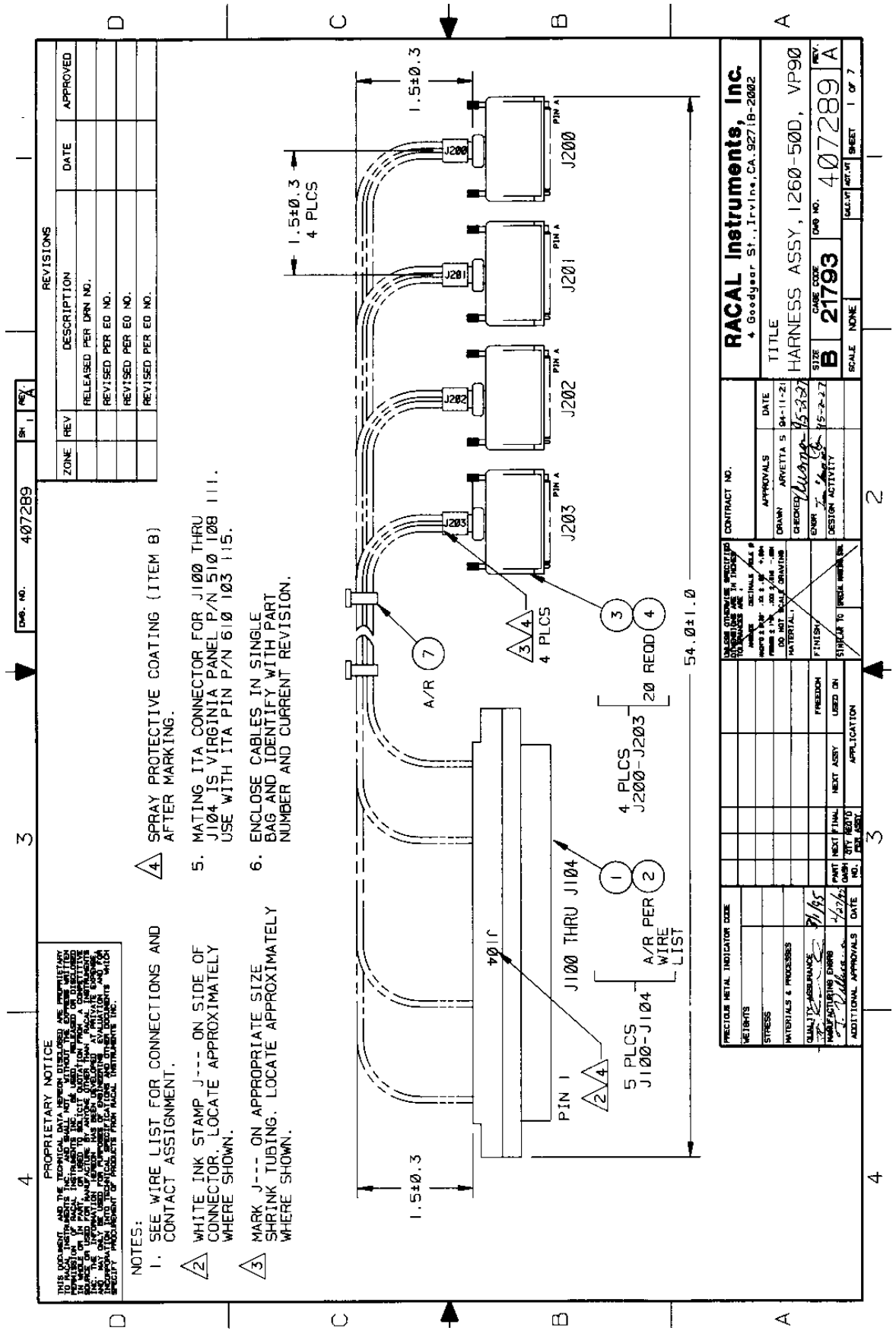
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ENGINEERING WIRE LIST

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	

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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

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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	

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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

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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

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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

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

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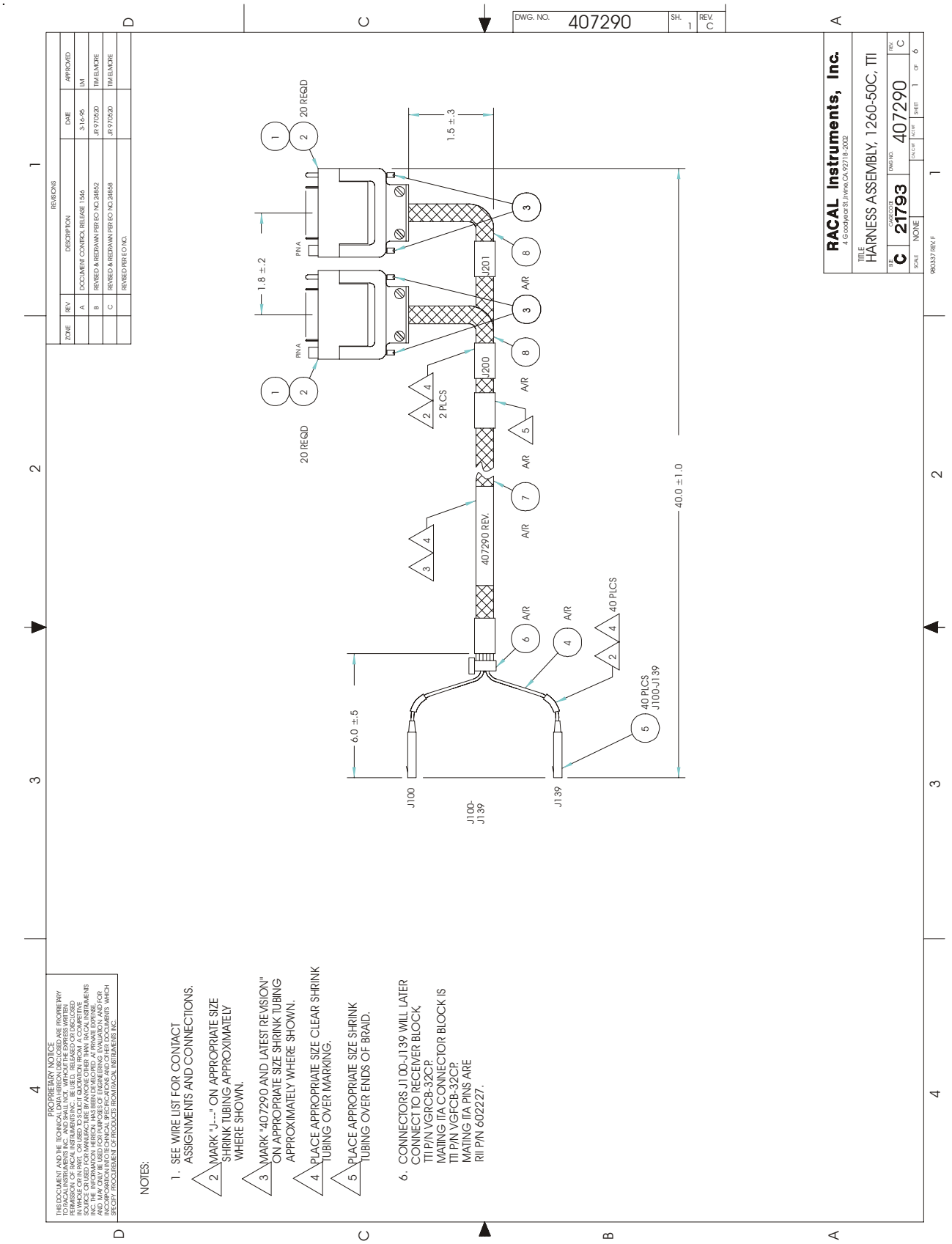
ENGINEERING WIRE LIST

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
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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	

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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		

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

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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	

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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	

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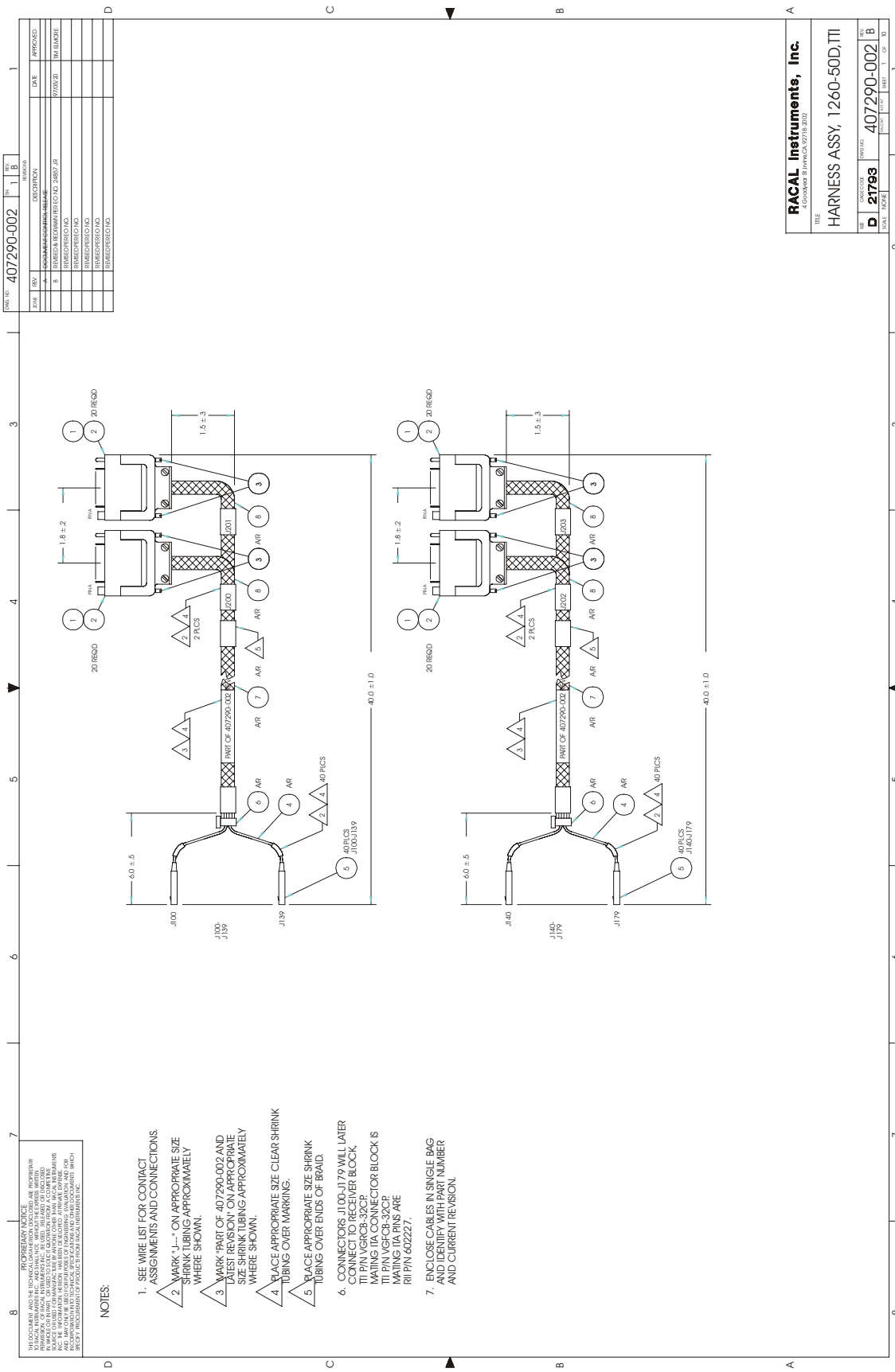
ENGINEERING WIRE LIST

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	J201-1 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	

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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	

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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
	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		

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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
	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
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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		

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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
	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.

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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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
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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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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
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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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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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DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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
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

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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.

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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

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Racal Systems Elettronica s.r.l.
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Racal Elektronik System GmbH.
Technologiepark Bergisch Gladbach, Friedrich-Ebert-Strasse,
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Tel.: +49 2204 8442 00; FAX: +49 2204 8442 19

Racal Instruments, Ltd.
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Tel: +852 2405 5500, FAX: +852 2416 4335

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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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