RACAL INSTRUMENTS™
1260-35
SWITCH MODULE

PUBLICATION NO. 980673-006

EADS North America Defense Test and Services, Inc.
4 Goodyear, Irvine, CA 92618
Tel: (800) 722-2528, (949) 859-8999; Fax: (949) 859-7139

info@eads-nadefense.com
sales@eads-nadefense.com
helpdesk@eads-nadefense.com
http://www.eads-nadefense.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 proper fuse is in place for the power source to operate.

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

If the instrument:

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

Do not operate until performance is checked by qualified personnel.

Racal Instruments

EC Declaration of Conformity

We

Racal Instruments Inc.
4 Goodyear Street
Irvine, CA 92718

declare under sole responsibility that the

1260-35 Signal Multiplexer/Scanner, P/N 404944
1260-35A Signal Multiplexer/Scanner, P/N 404944-001

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 8, 2002 Kam L Grewal
Engineering Director

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NOTE FOR SYSTEMS WITH 1260-OPT 01T

The “Module-Specific Syntax” section of this manual shows the command syntax for the 1260-01S Smart Card. If you are using the newer 1260-01T Smart Card, the commands will NOT work as shown.

Consult the 1260-01T Manual for a description of the commands which may be used with the 1260-01T Smart Card.

The channel numbers described in this manual are valid for the 1260-01T. The channel numbers continue to be used for the 1260-01T.

The syntax of the commands which use channel numbers has changed for those cards controlled by the 1260-01T.

The new syntax used to close a channel is:

CLOSE (@ <module address> (<channel>))

For example, with for a relay module whose <module address> is set to 7, closing <channel> 0 is performed with the command:

CLOSE (@ 7 (0))

Using the older 1260-01S, the command would be (as shown in this manual):

CLOSE 7.0

Many other command syntax differences exist. Please consult chapter 2 of the 1260-01T manual for a description of the commands which are available for the 1260-01T.

Control Information for the 1260-35A

The 1260-35A operates as a 4-wire MUX. Thus, when a channel is operated, 2 relays must be operated in parallel. For each channel, when a bit of Control Register X is set (or cleared), the same bit of Control Register X+6 must also be set (or cleared).

Each channel on this module is therefore controlled by setting or clearing **two** bits, one each in two different Control Registers. Control Registers on the module operate 8 channels simultaneously. There are eight control bits per Control Register. Setting the bit to a 1 closes the relay; setting the bit to a 0 opens the relay.

The table below shows the mapping between logical channels used to operate the relay module in message-based mode and the bits within the Control Registers which may be used to operate the channel in register-based mode.

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

For example, when closing channel 13, both byte 1 and byte 7 must have bit 5 set.

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

Channel	Control Register	Control Bit
33	4 and 10	1
34	4 and 10	2
35	4 and 10	3
36	4 and 10	4
37	4 and 10	5
38	4 and 10	6
39	4 and 10	7
40	5 and 11	0
41	5 and 11	1
42	5 and 11	2
43	5 and 11	3
44	5 and 11	4
45	5 and 11	5
46	5 and 11	6
47	5 and 11	7

Control Information for the 1260-35B

The following information describes the control-register-to-relay-channel mapping for a 1260-35B Relay Module. This information may be used to control a 1260-35B when using a 1260-01T in the register-based mode of operation.

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

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

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

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

Channel	Control Register	Control Bit
37	4	5
38	4	6
39	4	7
40	5	0
41	5	1
42	5	2
43	5	3
44	5	4
45	5	5
46	5	6
47	5	7
48	6	0
49	6	1
50	6	2
51	6	3
52	6	4
53	6	5
54	6	6
55	6	7
56	7	0
57	7	1
58	7	2
59	7	3
60	7	4
61	7	5
62	7	6
63	7	7
64	8	0
65	8	1
66	8	2
67	8	3
68	8	4
69	8	5
70	8	6
71	8	7
72	9	0
73	9	1
74	9	2
75	9	3
76	9	4
77	9	5
78	9	6
79	9	7
80	10	0
81	10	1
82	10	2
83	10	3
84	10	4
85	10	5
86	10	6
87	10	7
88	11	0
89	11	1
90	11	2
91	11	3
92	11	4
93	11	5
94	11	6
95	11	7
96	12	0

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Chapter 1

MODULE SPECIFICATION

1260-35 Module Specification

The 1260-35 Signal Multiplexer/Scanner Module is a 1 x 96 multiplexer. It switches two lines per channel and has the capability of being configured as two 1 x 48 multiplexers, four 1 x 24 multiplexers, eight 1 x 12 multiplexers, or sixteen 1 x 6 multiplexers. The configuration is user selectable, but is supplied by the factory in one 1 x 96 two-wire mode. A block diagram of the module is shown in Figure 3-1

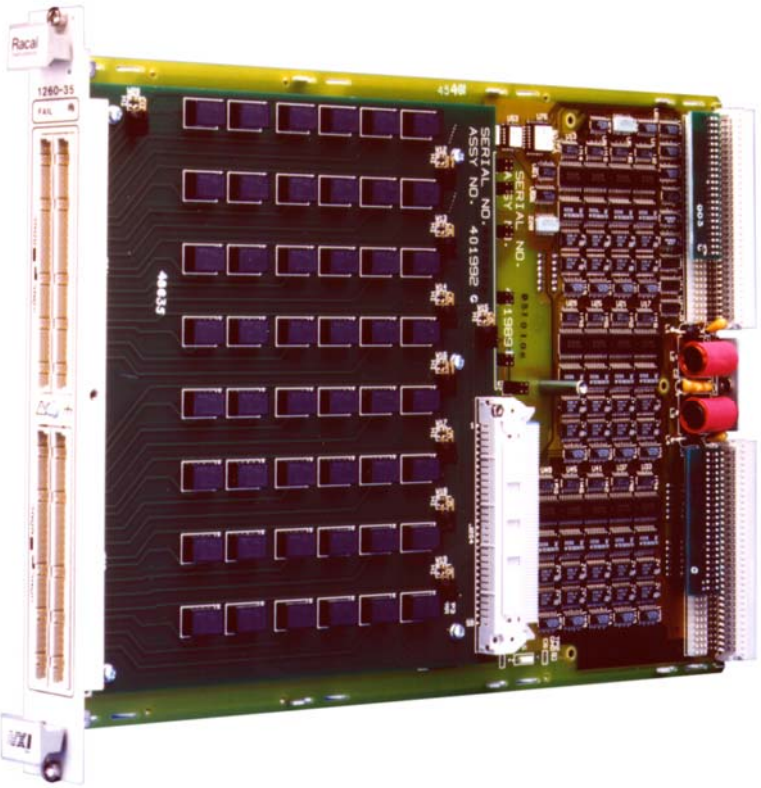

Figure 1-1, 1260-35 Signal Multiplexer/Scanner Module

Specifications

Switch Configurations	
Four-wire Mode	Any configuration
Two-wire Mode	Any configuration
User Connector	64-Pin (2 Row) IDC Quick Disconnect
Maximum Switchable Voltage (Terminal-Terminal or Terminal-Chassis	220VDC, 250VAC RMS
Maximum Switchable Current	1A DC or 1A RMS
Maximum Switchable Power Per Channel	30W DC, 62.5VA AC
Path Resistance	<0.5Ω (1 X 6 configuration) <1.0Ω (1 X 96 configuration)
Isolation Hi-Lo	>7.5 X 10^8Ω
Capacitance	
Open Channel	<600pf (1 x 96 configuration)
Channel-Chassis	<60pf (1 x 6 configuration) <200pf (1 x 96 configuration)
Hi-Lo	<50pf (1 x 6 configuration) <600pf (1 x 96 configuration)
Bandwidth (50Ω Termination)	>50 MHz (1 x 6 configuration) >15 MHz (1 x 48 configuration)

* A crimp connector kit is also available for this module (PIN 404975-001). A strain relief option can be ordered separately for this crimp connector kit.

Insertion Loss (50Ω) 1 x 6 Configuration	<.1 dB to 100kHz <.5 dB to 1MHz <1 dB to 10MHz
Insertion Loss (50Ω) 1 x 96 Configuration	<3 dB to 8MHz
Crosstalk (50Ω termination)	<-90 dB to 100kHz <-70 dB to 1 MHz <-23 dB to 10MHz
Cooling Requirement	

Airflow	4.0 liters/sec
Backpressure	0.5mm H_20

Power Requirements

+5V, I_{pm}	0.4A (2.8A with Option 01 installed)
+24V, I_{dm}	10mA per energized relay

Weight 3.07lbs (1.33Kg)
3.35lbs (1.51Kg) with Option 01 installed

Minimum Option 01 Firmware Revision 17.1

Ordering Information

Model Number	Description	Part Number
1260-35	1 X 96 Signal Multiplexer/ Scanner, User Conn: IDC	404944
1260-35A	1 X 96 Signal Multiplexer/ Scanner, User Conn: Crimp	404944-001

Safety

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

Product Support

EADS North America Defense Test and Services, Inc. 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 closest to your facility, refer to the website for the most complete information http://www.eads-nadefense.com.

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Chapter 2

INSTALLATION INSTRUCTIONS

Unpacking and Inspection

1. Remove the 1260-35 module and inspect it for damage. If any damage is apparent, inform the carrier immediately. Retain shipping carton and packing material for the carrier's inspection.

2. Verify that the pieces in the package you received contain the correct 1260-35 module option and the 1260-35 Users Manual. Notify EADS North America Defense Test and Services, Inc. if the module appears damaged in any way. Do not attempt to install a damaged module into a VXI chassis.

3. The 1260-35 module is shipped in an anti-static bag to prevent electrostatic damage to the module. Do not remove the module from the anti-static bag unless it is in a static-controlled area.

Reshipment Instructions

1. Use the original packing when returning the switching module to EADS North America Defense Test and Services, Inc. for calibration or servicing. The original shipping carton and the instrument's plastic foam will provide the necessary support for safe reshipment.

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

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

Option 01 Installation

Installation of the Option 01 to the 1260-35 is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

Module Installation

Installation of the 1260-35 Switching Module into a VXI mainframe, including the setting of DIP switches, is described in the Installation section of the 1260 Series VXI Switching Cards Manual. Configuration of the PCBA and setting of the DIP switches SW1-5 and SW1-6 are described in the following sections.

1260-35 ID Byte

Each configuration responds to different sets of values for <channel number>. The set of values the 1260-35 responds to is controlled by switch 5 on DIP switch 51 on the PCB. The switch settings that correspond to the two configurations are as follows:

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

Configuration

The 1260-35 Scanner Multiplexer is a user configurable switching module. Ten different configurations are available as follows:

1) Sixteen 1 x 6 two-wire scanner/multiplexers, P/N 404944-206
2) Eight 1 x 6 four-wire scanner/multiplexers, P/N 404944-406
3) Eight 1 x 12 two-wire scanner/multiplexers, P/N 404944-212
4) Four 1 x 12 four-wire scanner/multiplexers, P/N 404944-412
5) Four 1 x 24 two-wire scanner/multiplexers, P/N 404944-224
6) Two 1 x 24 four-wire scanner/multiplexers, P/N 404944-424
7) Two 1 x 48 two-wire scanner/multiplexers, P/N 404944-248
8) One 1 x 48 four-wire scanner/multiplexers, P/N 404944-448
9) One 1 x 96 two-wire scanner/multiplexers, P/N 404944-296
10) One 1 x 192 one-wire scanner/multiplexers, P/N 404944

Unless otherwise specified, the *1260-35* is shipped from the factory in the 1 x 192 single wire configuration. Table 2-1 gives the

necessary information to configure the module into the other possible configurations

Table 2-1, 1260-35 Jumper Installation

An X indicates a jumper is to be fitted. An (X) indicates the jumper is optional depending on whether access to the analog bus is required. A blank indicates no jumper is to be fitted.

16(1x6) 2-wire	8(1x6) 4-wire	8(1x12) 2-wire	4(1x12) 4-wire	4(1x24) 2-wire	2(1x24) 4-wire	2(1x48) 2-wire	1(1x48) 4-wire	1(1x96) 2-wire
W2A, B						(X)	(X)	(X)
W3A, B		X	X	X	X	X	X	X
W4A, B				X	X	X	X	X
W5A, B		X	X	X	X	X	X	X
W6A, B						X	X	X
W7A, B								X
W8A, B		X	X	X	X	X	X	X
W9A, B				X	X	X	X	X
W10A, B		X	X	X	X	X	X	X
W11A, B					1(1x192)	1-WIRE	ONLY--->	X
W12A,B		X	X	X	X	X	X	X
W13A, B				X	X	X	X	X
W14A, B		X	X	X	X	X	X	X
W15A, B								X
W16A, B						X	X	X
W17A, B		X	X	X	X	X	X	X
W18A, B				X	X	X	X	X
W19A, B		X	X	X	X	X	X	X
W20A, B						(X)	(X)	(X)

Analog Bus

In most of the above configurations, the 1260-35 may be user configured to access an analog bus (refer to Figure 3-1). The analog bus allows internal expansion for the configuration of larger scanner/multiplexers than the module may achieve alone, by providing access to a common bus channel which may be daisy chained to other modules via the front panel.

To connect the module to the analog bus, install jumpers W2A, W2B, W20A, and W20B.

Chapter 3

MODULE SPECIFIC SYNTAX

1260-35 Module Specific Syntax

The Module Specific Syntax for the 1260-35 is required in the use of the OPEN and CLOSE commands. It will also appear in data output by the Master in response to the PDATAOUT and PSETUP commands.

Syntax

The Module Specific Syntax for the 1260-35 Signal Multiplexer/Scanner module is as follows:

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

where <module address> is the switch card 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.

NOTE

The <module address> used here is NOT the VXIbus defined logical address of the 1260 Series Master. It is peculiar to the 1260 Series and describes the switching module in relation to the Master. This address corresponds to the binary value of the switch setting of SW1 on the switching module PCB.

The range of values for <channel> is:

One-wire	00-96
Two-wire	00-95
Four-wire	00-47

The actual mapping of number to connector pins is given in Table 3-1. Figure 3-1 shows the physical location of the various connector pins.

Example:

OPEN 3.02

This open command will open channel 2 on the module at switch card address 3

CLOSE Command

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

PSETUP Command

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

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

The responses to the PSETUP command for the 1260-35 Multiplexer/Scanner is as follows:

1260-35: Two-wire

<module address>. 1260-35B, Two-wire Scanner/Multiplexer Module
<module address>. BBM
<module address>.END

1260-35: Four-wire

<module address>. 1260-35A, Four-wire Scanner/Multiplexer Module
<module address>. BBM
<module address>.END

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

PDATAOUT Command

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

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

The responses to the PDATAOUT command is as follows:

1260-35: Two-wire

<module address>. 1260-3 SB Two-wire Scanner/Multiplexer Module
<module address>. <channel>[,<channel>] [,<channel>]
<module address>.END

1260-35 Four-wire

<module address>. 1 260-35A Four-wire Scanner/Multiplexer Module
<module address>. <channel>[,<channel>] [,<channel>]
<module address>.END

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

Operation In Single-Wire Mode

The 1260-35 is delivered with all jumpers installed (refer to Table 2-1). In this configuration, the module is a 1 x 96 two-wire multiplexer (refer to Figure 3-1).

Channel 97 is a single pole, double throw (SPDT) relay with its common channel connected to J202, pin B2. The normally closed (NC) contact is connected to the "LO" side of the two-wire common bus, and the normally open (NO) contact is connected to the "HI" side of the common bus.

The common output of channel 96 is the single channel of the 192 x 1 multiplexer, and the 96 HI and 96 LO connections make up the 192 channels. By closing the appropriate channel (0-95) and opening or closing channel 96. a 192 x 1 multiplexer is achieved.

Example:

```
CLOSE    3.46
CLOSE    3.96
```

This would correct J202 pin B2 to J202 pin A4

Table 3-1, 1260-35 Channel Closure

channel interconnect for 1, 2 and 4-wire modes.

1-wire mode:

<channel> (channel 96 open)	<channel> output	<channel> input
0 thru 95	always J202- B2	(see 2-wire mode channels 0-95 input pins b-side of channel)
(channel 96 closed)		
0 thru 95	always J202- B2	(see 2-wire mode channels 0-95 input pins a-side of channel)

Thus, a one 1 x 191 1-wire mode is acheived.

2-wire mode:

channel>	<channel> output pins to	<channel> input pins
	a / b	a / b
	(HI) (Lo)	(HI) (LO)
0	J200- A30 / B30	J200- A29 / B29
1	J200- A30 / B30	J200- A28 / B28
2	J200- A30 / B30	J200- A27 / B27
3	J200- A30 / B30	J200- A26 / B26
4	J200- A30 / B30	J200- A25 / B25
5	J200- A30 / B30	J200- A24 / B24
6	J200- A23 / B23	J200- A22 / B22
7	J200- A23 / B23	J200- A21 / B21
8	J200- A23 / B23	J200- A20 / B20
9	J200- A23 / B23	J200- A19 / B19
10	J200- A23 / B23	J200- A18 / B18
11	J200- A23 / B23	J200- A17 / B17
12	J200- A16 / B16	J200- A15 / B15
13	J200- A16 / B16	J200- A14 / B14
14	J200- A16 / B16	J200- A13 / B13
15	J200- A16 / B16	J200- A12 / B12
16	J200- A16 / B16	J200- A11 / B11
17	J200- A16 / B16	J200- A10 / B10
18	J200- A9 / B9	J200- A8 / B8
19	J200- A9 / B9	J200- A7 / B7
20	J200- A9 / B9	J200- A6 / B6
21	J200- A9 / B9	J200- A5 / B5
22	J200- A9 / B9	J200- A4 / B4
23	J200- A9 / B9	J200- A3 / B3
24	J202- A30 / B30	J202- A29 / B29
25	J202- A30 / B30	J202- A28 / B28
26	J202- A30 / B30	J202- A27 / B27
27	J202- A30 / B30	J202- A26 / B26
28	J202- A30 / B30	J202- A25 / B25
29	J202- A30 / B30	J202- A24 / B24

Table 3-1, 1260-35 Channel Closure (continued)

30	J202 A23 / B23	J202 A22 / B22
31	J202 A23 / B23	J202 A21 / B21
32	J202 A23 / B23	J202 A20 / B20
33	J202 A23 / B23	J202 A19 / B19
34	J202 A23 / B23	J202 A18 / B18
35	J202 A23 / B23	J202 A17 / B17
36	J202 A16 / B16	J202 A15 / B15
37	J202 A16 / B16	J202 A14 / B14
38	J202 A16 / B16	J202 A13 / B13
39	J202 A16 / B16	J202 A12 / B12
40	J202 A16 / B16	J202 A11 / B11
41	J202 A16 / B16	J202 A10 / B10
42	J202 A9 / B9	J202 A8 / B8
43	J202 A9 / B9	J202 A7 / B7
44	J202 A9 / B9	J202 A6 / B6
45	J202 A9 / B9	J202 AS / B5
46	J202 A9 / B9	J202 A4 / B4
47	J202 A9 / B9	J202 A3 / B3
48	J201 A30 / B30	J201 A29 / B29
49	J201 A30 / B30	J201 A28 / B28
50	J201 A30 / B30	J201 A27 / B27
51	J201 A30 / B30	J201 A26 / B26
52	J201 A30 / B30	J201 A25 / B25
53	J201 A30 / B30	J201 A24 / B24
54	J201 A23 / B23	J201 A22 / B22
55	J201 A23 / B23	J201 A21 / B21
56	J201 A23 / B23	J201 A20 / B20
57	J201 A23 / B23	J201 A19 / B19
58	J201 A23 / B23	J201 A18 / B18
59	J201 A23 / B23	J201 A17 / B17
60	J201 A16 / B16	J201 A15 / B15
61	J201 A16 / B16	J201 A14 / B14
62	J201 A16 / B16	J201 A13 / B13
63	J201 A16 / B16	J201 A12 / B12
64	J201 A16 / B16	J201 A11 / B11
65	J201 A16 / B16	J201 A10 / B10
66	J201 A9 / B9	J201 A8 / B8
67	J201 A9 / B9	J201 A7 / B7
68	J201 A9 / B9	J201 A6 / B6
69	J201 A9 / B9	J201 AS / B5
70	J201 A9 / B9	J201 A4 / B4
71	J201 A9 / B9	J201 A3 / B3
72	J203 A30 / B30	J203 A29 / B29
73	J203 A30 / B30	J203 A28 / B28
74	J203 A30 / B30	J203 A27 / B27
75	J203 A30 / B30	J203 A26 / B26
76	J203 A30 / B30	J203 A25 / B25
77	J203 A30 / B30	J203 A24 / B324

Table 3-1, 1260-35 Channel Closure (continued)

78	J203 A23 / B23	J203 A22 / B22
79	J203 A23 / B23	J203 A21 / B21
80	J203 A23 / B23	J203 A20 / B20
81	J203 A23 / B23	J203 A19 / B19
82	J203 A23 / B23	J203 A18 / B18
83	J203 A23 / B23	J203 A17 / B17
84	J203 A16 / B16	J203 A15 / B15
85	J203 A16 / B16	J203 A14 / B14
86	J203 A16 / B16	J203 A13 / B13
87	J203 A16 / B16	J203 A12 / B12
88	J203 A16 / B16	J203 A11 / B11
89	J203 A16 / B16	J203 A10 / B10
90	J203 A9 / B9	J203 A8 / B8
91	J203 A9 / B9	J203 A7 / B7
92	J203 A9 / B9	J203 A6 / B6
93	J203 A9 / B9	J203 A5 / B5
94	J203 A9 / B9	J203 A4 / B4
95	J203 A9 / B9	J203 A3 / B3

96 (not used in 2-wire mode)

4-wire mode:

<channel>	refer to the following 2-wire channels for the input/output pins	<channel>	refer to the following 2-wire channels for the input/output pins
0	0,48	24	24,72
1	1,49	25	25,73
2	2,50	26	26,74
3	3,51	27	27,75
4	4, 52	28	28,76
5	5,53	29	29,77
6	6, 54	30	30,78
7	7,55	31	31,79
8	8,56	32	32,80
9	9 , 57	33	33,81
10	10, 58	34	34,82
11	11,59	35	35,83
12	12,60	36	36,84
13	13,61	37	37,85
14	14,62	38	38,86
15	15,63	39	39,87
16	16, 64	40	40,88
17	17,65	41	41,89
18	18,66	42	42,90
19	19,67	43	43,91
20	20,68	44	44,92
21	21,69	45	45,93
22	22,70	46	46,94
23	23,71	47	47,95

96 (not used in 4-wire mode)

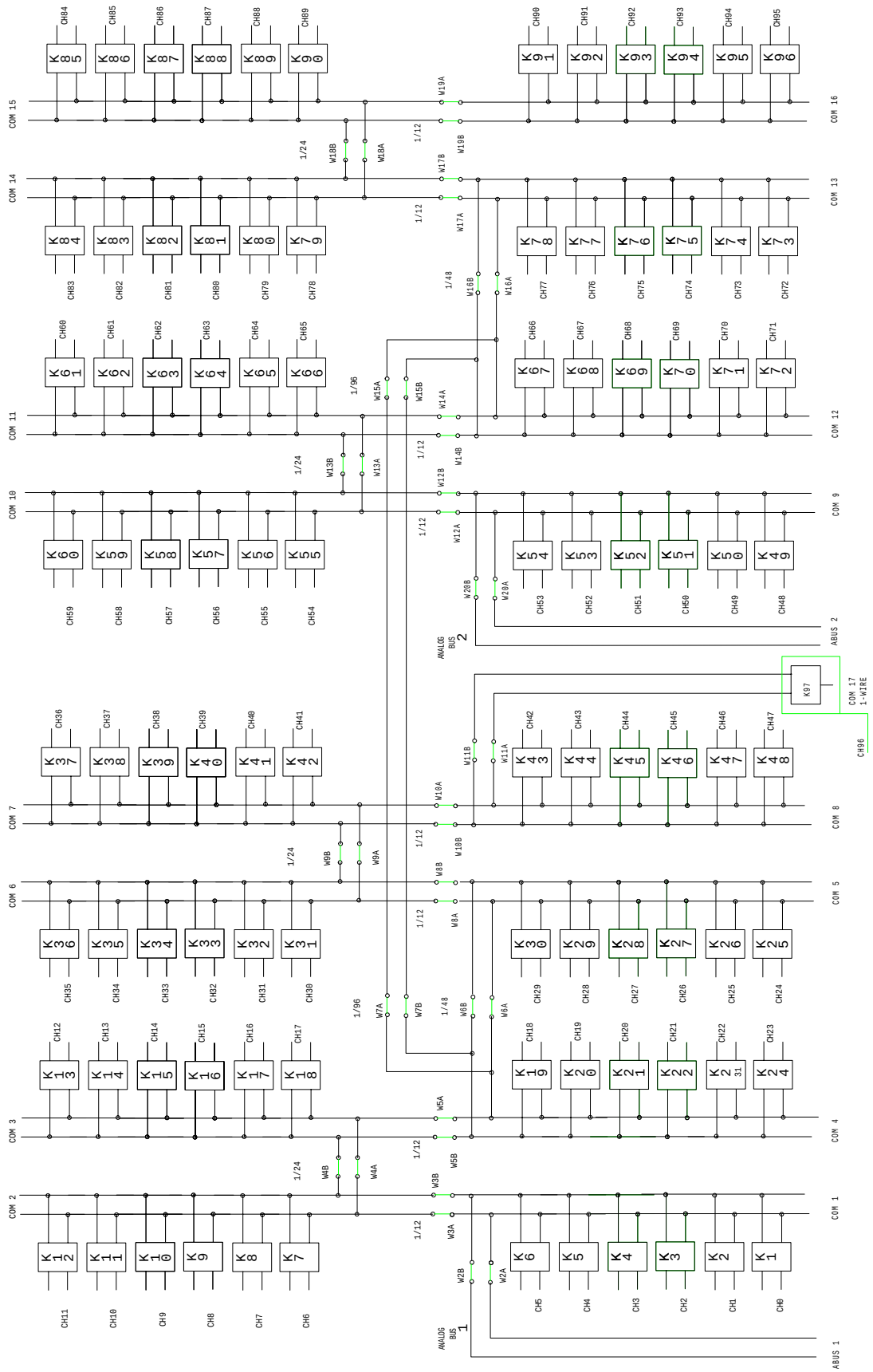

Figure 3-1, 1260-35 Block Diagram

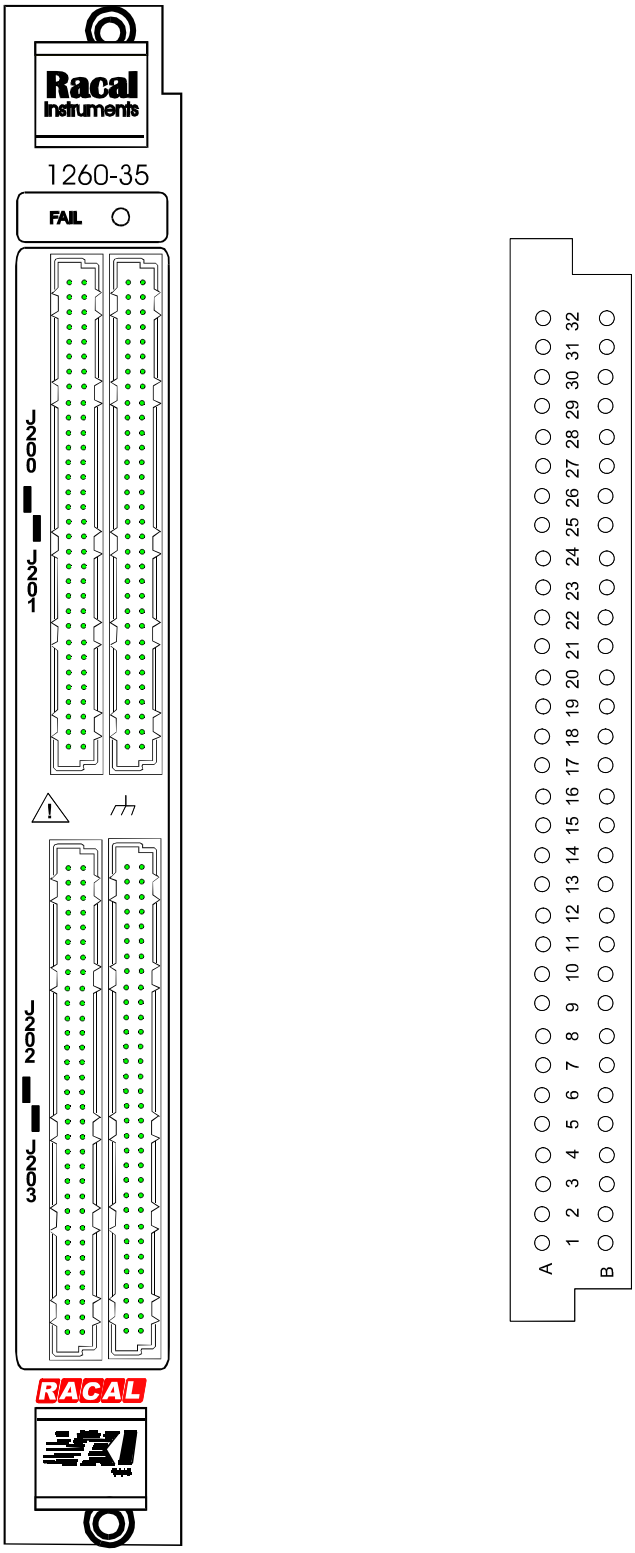

Figure 3-2, 1260-35 Pin Connections, Front View

Chapter 4
OPTIONAL HARNESS ASSEMBLIES

The following harness assemblies are used to connect 1260-35 to Freedom Series Test Receiver Interfaces.

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

407280	Virginia Panel, Inc. Series VP90 Interface Harness
407281	TTI Testron, Inc. Interface Harness

For more information on Racal Instruments™ complete line of Test Receivers Interface solution, contact your Sales Representative.

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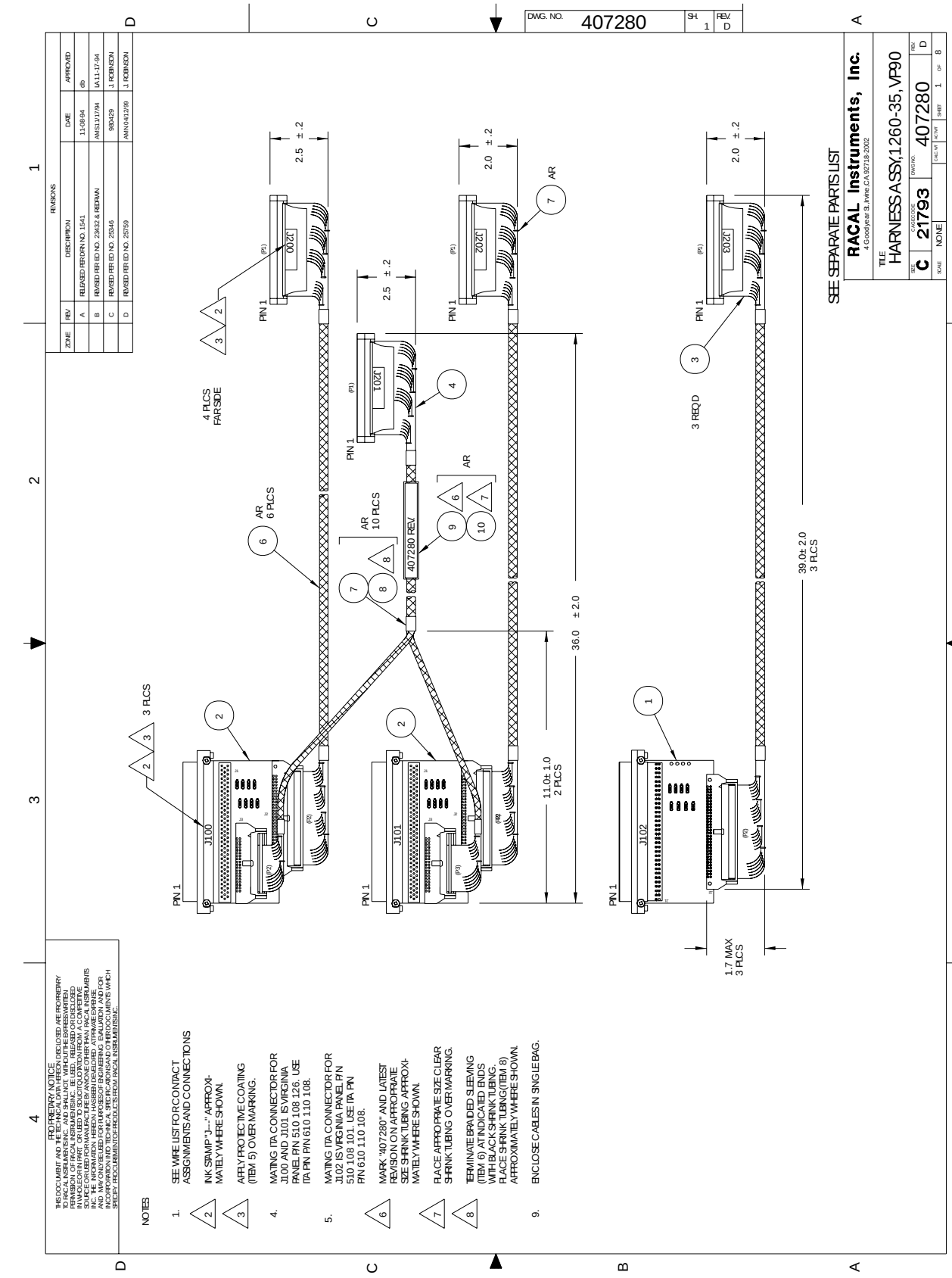
DWG. NO. 407280
SH 1
REV D
REVISIONS
ZONE | REV | DESCRIPTION | DATE | APPROVED
A | RELEASED PER DPN NO. 1541 | 11-08-94 | db
B | REVISED PER ECO NO. 23432 & REDRAWN | AM 5/11/7/94 | LA 11-17-94
C | REVISED PER ECO NO. 23546 | 980429 | J ROBINSON
D | REVISED PER ECO NO. 23759 | AMN 04/12/99 | J ROBINSON
SEE SEPARATE PARTS LIST
RACAL Instruments, Inc.
4 Goodyear St, Irvine CA 92718-2002
TITLE
HARNESS ASSY;1260-35,VP90
SIZE C
CAGE CODE 21793
DWG NO. 407280
REV D
SCALE NONE
SHEET 1 OF 8
980337 REV F
PROPRIETARY NOTICE
THIS DOCUMENT AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO RACAL INSTRUMENTS INC. AND SHALL NOT, WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAID COMPANY, BE REPRODUCED, USED, OR DISCLOSED TO OTHERS IN WHOLE OR IN PART, OR USED TO SOLICIT QUOTATION FROM A COMPETITIVE SOURCE OR USED FOR MANUFACTURE BY ANYONE OTHER THAN RACAL INSTRUMENTS INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY RACAL INSTRUMENTS INC. AND ONLY RELEASED FOR PURPOSES OF ENGINEERING EVALUATION AND FOR INCORPORATION INTO TECHNICAL SPECIFICATIONS AND OTHER DOCUMENTS WHICH SPECIFY PROCUREMENT OF PRODUCTS FROM RACAL INSTRUMENTS INC.
NOTES
1. SEE WIRE LIST FOR CONTACT ASSIGNMENTS AND CONNECTIONS
2 INK STAMP "J—" APPROXIMATELY WHERE SHOWN.
3 APPLY PROTECTIVE COATING (ITEM 5) OVER MARKING.
4. MATING ITA CONNECTOR FOR J100 AND J101 IS VIRGINIA PANEL P/N 510 108 126. USE ITA P/N P/N 610 110 108.
5. MATING ITA CONNECTOR FOR J102 IS VIRGINIA PANEL P/N 510 108 101. USE ITA P/N P/N 610 110 108.
6 MARK "407280" AND LATEST REVISION ON APPROPRIATE SIZE SHRINK TUBING APPROXIMATELY WHERE SHOWN.
7 PLACE APPROPRIATE SIZE CLEAR SHRINK TUBING OVER MARKING.
8 TERMINATE BRAIDED SLEEVING (ITEM 6) AT INDICATED ENDS WITH BLACK SHRINK TUBING. PLACE SHRINK TUBING (ITEM 8) APPROXIMATELY WHERE SHOWN.
9. ENCLOSE CABLES IN SINGLE BAG.
J100
J101
J102
J200
J201
J202
J203
PIN 1
3 PLCS
4 PLCS FAR SIDE
AR 6 PLCS
AR 10 PLCS
AR
3 REQ'D
407280 REV
2.5 ± .2
2.0 ± .2
36.0 ± 2.0
11.0± 1.0 2 PLCS
39.0± 2.0 3 PLCS
1.7 MAX 3 PLCS

Assembly 407280 HARNESS ASSY, 1260-35, VP90 Date 3/18/99 Revision D

#	Component	Description	U/N	Qty Reqd	Ref
1	405084	PCB ASSY, VP90 INTFC, 64CONTCT	EA	1.00000	
2	405085	PCB ASSY, VP90 INTFC, 96CONTCT	EA	2.00000	
3	407259	CABLE ASSY, IDC, 64COND,VP90	EA	3.00000	
4	407258	CABLE ASSY, IDC, 64SPLT,VP90	EA	1.00000	
5	910541	POLYURETHANE CONFORMAL COAT	EA	.00001	
6	GRP-I10-I/2	TBGWOV- POY. 250ID-BLACK	FT	.00001	
7	500005	TIE CORD NYLON	FT	.00001	
8	500017	TBGSRK- POF. 500ID-BLACK	FT	.00001	
9	M23053/5-109-4	TBGSRK- POF. 750ID-YELLOW	FT	.00001	
10	500104	TBGSRK- POF .750 ID-CLEAR	FT	.00001	

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J200,J201)	CABLE	407280		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (J201,J202)	CABLE	407280		
	BLK AA (J102)	Uxx-SLOT yy (J203)	CABLE	407280		

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 ASSY, 1260-35, VP90	A	21793	407280	D
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-44	J200-A1	RED	407259	41.5"	GND
2	J100-76	J200-A2	BRN	407259	41.5"	GND
3	J100-13	J200-A3	BLK	407259	41.5"	CHANNEL 23, A
4	J100-46	J200-A4	WHT	407259	41.5"	CHANNEL 22, A
5	J100-78	J200-A5	GRY	407259	41.5"	CHANNEL 21, A
6	J100-15	J200-A6	VIO	407259	41.5"	CHANNEL 20, A
7	J100-48	J200-A7	BLU	407259	41.5"	CHANNEL 19, A
8	J100-80	J200-A8	GRN	407259	41.5"	CHANNEL 18, A
9	J100-17	J200-A9	YEL	407259	41.5"	COMM 04, A
10	J100-50	J200-A10	ORN	407259	41.5"	CHANNEL 17, A
11	J100-82	J200-A11	RED	407259	41.5"	CHANNEL 16, A
12	J100-19	J200-A12	BRN	407259	41.5"	CHANNEL 15, A
13	J100-52	J200-A13	BLK	407259	41.5"	CHANNEL 14, A
14	J100-84	J200-A14	WHT	407259	41.5"	CHANNEL 13, A
15	J100-21	J200-A15	GRY	407259	41.5"	CHANNEL 12, A
16	J100-54	J200-A16	VIO	407259	41.5"	COMM 03, A
17	J100-86	J200-A17	BLU	407259	41.5"	CHANNEL 11, A
18	J100-23	J200-A18	GRN	407259	41.5"	CHANNEL 10, A
19	J100-56	J200-A19	YEL	407259	41.5"	CHANNEL 09, A
20	J100-88	J200-A20	ORN	407259	41.5"	CHANNEL 08, A
21	J100-25	J200-A21	RED	407259	41.5"	CHANNEL 07, A
22	J100-58	J200-A22	BRN	407259	41.5"	CHANNEL 06, A
23	J100-90	J200-A23	BLK	407259	41.5"	COMM 02, A
24	J100-27	J200-A24	WHT	407259	41.5"	CHANNEL 05, A
25	J100-60	J200-A25	GRY	407259	41.5"	CHANNEL 04, A
26	J100-92	J200-A26	VIO	407259	41.5"	CHANNEL 03, A
27	J100-29	J200-A27	BLU	407259	41.5"	CHANNEL 02, A
28	J100-62	J200-A28	GRN	407259	41.5"	CHANNEL 01, A
29	J100-94	J200-A29	YEL	407259	41.5"	CHANNEL 00, A
30	J100-31	J200-A30	ORN	407259	41.5"	COMM 01, A
31	J100-64	J200-A31	RED	407259	41.5"	J200-A31
32	J100-96	J200-A32	BRN	407259	41.5"	ABUS1, A
33	J100-75	J200-B1	TAN	407259	41.5"	GND
34	J100-12	J200-B2	TAN	407259	41.5"	GND
35	J100-45	J200-B3	TAN	407259	41.5"	CHANNEL 23, B
36	J100-77	J200-B4	TAN	407259	41.5"	CHANNEL 22, B
37	J100-14	J200-B5	TAN	407259	41.5"	CHANNEL 21, B
38	J100-47	J200-B6	TAN	407259	41.5"	CHANNEL 20, B
39	J100-79	J200-B7	TAN	407259	41.5"	CHANNEL 19, B
40	J100-16	J200-B8	TAN	407259	41.5"	CHANNEL 18, B
41	J100-49	J200-B9	TAN	407259	41.5"	COMM 04, B
42	J100-81	J200-B10	TAN	407259	41.5"	CHANNEL 17, B
43	J100-18	J200-B11	TAN	407259	41.5"	CHANNEL 16, B
44	J100-51	J200-B12	TAN	407259	41.5"	CHANNEL 15, B
45	J100-83	J200-B13	TAN	407259	41.5"	CHANNEL 14, B
46	J100-20	J200-B14	TAN	407259	41.5"	CHANNEL 13, B
47	J100-53	J200-B15	TAN	407259	41.5"	CHANNEL 12, B
48	J100-85	J200-B16	TAN	407259	41.5"	COMM 03, B

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HARNESS ASSEMBLY, 1260-35 TO VP90	A	21793	407280	D
	DRN			SHEET 3 of 8

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
49	J100-22	J200-B17	TAN	407259	41.5"	CHANNEL 11, B
50	J100-55	J200-B18	TAN	407259	41.5"	CHANNEL 10, B
51	J100-87	J200-B19	TAN	407259	41.5"	CHANNEL 09, B
52	J100-24	J200-B20	TAN	407259	41.5"	CHANNEL 08, B
53	J100-57	J200-B21	TAN	407259	41.5"	CHANNEL 07, B
54	J100-89	J200-B22	TAN	407259	41.5"	CHANNEL 06, B
55	J100-26	J200-B23	TAN	407259	41.5"	COMM 02, B
56	J100-59	J200-B24	TAN	407259	41.5"	CHANNEL 05, B
57	J100-91	J200-B25	TAN	407259	41.5"	CHANNEL 04, B
58	J100-28	J200-B26	TAN	407259	41.5"	CHANNEL 03, B
59	J100-61	J200-B27	TAN	407259	41.5"	CHANNEL 02, B
60	J100-93	J200-B28	TAN	407259	41.5"	CHANNEL 01, B
61	J100-30	J200-B29	TAN	407259	41.5"	CHANNEL 00, B
62	J100-63	J200-B30	TAN	407259	41.5"	COMM 01, B
63	J100-95	J200-B31	TAN	407259	41.5"	J200-A31
64	J100-32	J200-B32	TAN	407259	41.5"	ABUS1, B
65	J101-1	J201-A1	RED	407258	41.5"	GND
66	J101-34	J201-A2	BRN	407258	41.5"	GND
67	J101-66	J201-A3	BLK	407258	41.5"	CHANNEL 71, A
68	J101-3	J201-A4	WHT	407258	41.5"	CHANNEL 70, A
69	J101-36	J201-A5	GRY	407258	41.5"	CHANNEL 69, A
70	J101-68	J201-A6	VIO	407258	41.5"	CHANNEL 68, A
71	J101-5	J201-A7	BLU	407258	41.5"	CHANNEL 67, A
72	J101-38	J201-A8	GRN	407258	41.5"	CHANNEL 66, A
73	J101-70	J201-A9	YEL	407258	41.5"	COMM 12, A
74	J101-7	J201-A10	ORN	407258	41.5"	CHANNEL 65, A
75	J101-40	J201-A11	RED	407258	41.5"	CHANNEL 64, A
76	J101-72	J201-A12	BRN	407258	41.5"	CHANNEL 63, A
77	J101-9	J201-A13	BLK	407258	41.5"	CHANNEL 62, A
78	J101-42	J201-A14	WHT	407258	41.5"	CHANNEL 61, A
79	J101-74	J201-A15	GRY	407258	41.5"	CHANNEL 60, A
80	J101-11	J201-A16	VIO	407258	41.5"	COMM 11, A
81	J100-1	J201-A17	BLU	407258	41.5"	CHANNEL 59, A
82	J100-34	J201-A18	GRN	407258	41.5"	CHANNEL 58, A
83	J100-66	J201-A19	YEL	407258	41.5"	CHANNEL 57, A
84	J100-3	J201-A20	ORN	407258	41.5"	CHANNEL 56, A
85	J100-36	J201-A21	RED	407258	41.5"	CHANNEL 55, A
86	J100-68	J201-A22	BRN	407258	41.5"	CHANNEL 54, A
87	J100-5	J201-A23	BLK	407258	41.5"	COMM 10A
88	J100-38	J201-A24	WHT	407258	41.5"	CHANNEL 53, A
89	J100-70	J201-A25	GRY	407258	41.5"	CHANNEL 52, A
90	J100-7	J201-A26	VIO	407258	41.5"	CHANNEL 51, A
91	J100-40	J201-A27	BLU	407258	41.5"	CHANNEL 50, A
92	J100-72	J201-A28	GRN	407258	41.5"	CHANNEL 49, A
93	J100-9	J201-A29	YEL	407258	41.5"	CHANNEL 48, A
94	J100-42	J201-A30	ORN	407258	41.5"	COMM 09, A

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
95	J100-74	J201-A31	RED	407258	41.5"	J201-A31
96	J100-11	J201-A32	BRN	407258	41.5"	ABUS2, A
97	J101-33	J201-B1	TAN	407258	41.5"	GND
98	J101-65	J201-B2	TAN	407258	41.5"	GND
99	J101-2	J201-B3	TAN	407258	41.5"	CHANNEL 71, B
100	J101-35	J201-B4	TAN	407258	41.5"	CHANNEL 70, B
101	J101-67	J201-B5	TAN	407258	41.5"	CHANNEL 69, B
102	J101-4	J201-B6	TAN	407258	41.5"	CHANNEL 68, B
103	J101-37	J201-B7	TAN	407258	41.5"	CHANNEL 67, B
104	J101-69	J201-B8	TAN	407258	41.5"	CHANNEL 66, B
105	J101-6	J201-B9	TAN	407258	41.5"	COMM 12, B
106	J101-39	J201-B10	TAN	407258	41.5"	CHANNEL 65, B
107	J101-71	J201-B11	TAN	407258	41.5"	CHANNEL 64, B
108	J101-8	J201-B12	TAN	407258	41.5"	CHANNEL 63, B
109	J101-41	J201-B13	TAN	407258	41.5"	CHANNEL 62, B
110	J101-73	J201-B14	TAN	407258	41.5"	CHANNEL 61, B
111	J101-10	J201-B15	TAN	407258	41.5"	CHANNEL 60, B
112	J101-43	J201-B16	TAN	407258	41.5"	COMM 11, B
113	J100-33	J201-B17	TAN	407258	41.5"	CHANNEL 59, B
114	J100-65	J201-B18	TAN	407258	41.5"	CHANNEL 58, B
115	J100-2	J201-B19	TAN	407258	41.5"	CHANNEL 57, B
116	J100-35	J201-B20	TAN	407258	41.5"	CHANNEL 56, B
117	J100-67	J201-B21	TAN	407258	41.5"	CHANNEL 55, B
118	J100-4	J201-B22	TAN	407258	41.5"	CHANNEL 54, B
119	J100-37	J201-B23	TAN	407258	41.5"	COMM 10, B
120	J100-69	J201-B24	TAN	407258	41.5"	CHANNEL 53, B
121	J100-6	J201-B25	TAN	407258	41.5"	CHANNEL 52, B
122	J100-39	J201-B26	TAN	407258	41.5"	CHANNEL 51, B
123	J100-71	J201-B27	TAN	407258	41.5"	CHANNEL 50, B
124	J100-8	J201-B28	TAN	407258	41.5"	CHANNEL 49, B
125	J100-41	J201-B29	TAN	407258	41.5"	CHANNEL 48, B
126	J100-73	J201-B30	TAN	407258	41.5"	COMM 09, B
127	J100-10	J201-B31	TAN	407258	41.5"	J201-A31
128	J100-43	J201-B32	TAN	407258	41.5"	ABUS2, B
129	J101-44	J202-A1	RED	407259	41.5"	GND
130	J101-76	J202-A2	BRN	407259	41.5"	GND
131	J101-13	J202-A3	BLK	407259	41.5"	CHANNEL 47, A
132	J101-46	J202-A4	WHT	407259	41.5"	CHANNEL 46, A
133	J101-78	J202-A5	GRY	407259	41.5"	CHANNEL 45, A
134	J101-15	J202-A6	VIO	407259	41.5"	CHANNEL 44, A
135	J101-48	J202-A7	BLU	407259	41.5"	CHANNEL 43, A
136	J101-80	J202-A8	GRN	407259	41.5"	CHANNEL 42, A
137	J101-17	J202-A9	YEL	407259	41.5"	COMM 08A
138	J101-50	J202-A10	ORN	407259	41.5"	CHANNEL 41, A
139	J101-82	J202-A11	RED	407259	41.5"	CHANNEL 40, A
140	J101-19	J202-A12	BRN	407259	41.5"	CHANNEL 39, A

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HARNESS ASSEMBLY, 1260-35 TO VP90	A	21793	407280	D
	DRN			SHEET 5 of 8

DOC. NO. 407280

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
141	J101-52	J202-A13	BLK	407259	41.5"	CHANNEL 38 ,A
142	J101-84	J202-A14	WHT	407259	41.5"	CHANNEL 37 ,A
143	J101-21	J202-A15	GRY	407259	41.5"	CHANNEL 36, A
144	J101-54	J202-A16	VIO	407259	41.5"	COMM 07, A
145	J101-86	J202-A17	BLU	407259	41.5"	CHANNEL 35, A
146	J101-23	J202-A18	GRN	407259	41.5"	CHANNEL 34, A
147	J101-56	J202-A19	YEL	407259	41.5"	CHANNEL 33, A
148	J101-88	J202-A20	ORN	407259	41.5"	CHANNEL 32, A
149	J101-25	J202-A21	RED	407259	41.5"	CHANNEL 31, A
150	J101-58	J202-A22	BRN	407259	41.5"	CHANNEL 30, A
151	J101-90	J202-A23	BLK	407259	41.5"	COMM 06, A
152	J101-27	J202-A24	WHT	407259	41.5"	CHANNEL 29, A
153	J101-60	J202-A25	GRY	407259	41.5"	CHANNEL 28, A
154	J101-92	J202-A26	VIO	407259	41.5"	CHANNEL 27, A
155	J101-29	J202-A27	BLU	407259	41.5"	CHANNEL 26, A
156	J101-62	J202-A28	GRN	407259	41.5"	CHANNEL 25, A
157	J101-94	J202-A29	YEL	407259	41.5"	CHANNEL 24, A
158	J101-31	J202-A30	ORN	407259	41.5"	COMM 05, A
159	J101-64	J202-A31	RED	407259	41.5"	GND
160	J101-96	J202-A32	BRN	407259	41.5"	GND
161	J101-75	J202-B1	TAN	407259	41.5"	GND
162	J101-12	J202-B2	TAN	407259	41.5"	GND
163	J101-45	J202-B3	TAN	407259	41.5"	CHANNEL 47, B
164	J101-77	J202-B4	TAN	407259	41.5"	CHANNEL 46, B
165	J101-14	J202-B5	TAN	407259	41.5"	CHANNEL 45, B
166	J101-47	J202-B6	TAN	407259	41.5"	CHANNEL 44, B
167	J101-79	J202-B7	TAN	407259	41.5"	CHANNEL 43, B
168	J101-16	J202-B8	TAN	407259	41.5"	CHANNEL 42, B
169	J101-49	J202-B9	TAN	407259	41.5"	COMM 08, B
170	J101-81	J202-B10	TAN	407259	41.5"	CHANNEL 41, B
171	J101-18	J202-B11	TAN	407259	41.5"	CHANNEL 40, B
172	J101-51	J202-B12	TAN	407259	41.5"	CHANNEL 39, B
173	J101-83	J202-B13	TAN	407259	41.5"	CHANNEL 38, B
174	J101-20	J202-B14	TAN	407259	41.5"	CHANNEL 37, B
175	J101-53	J202-B15	TAN	407259	41.5"	CHANNEL 36, B
176	J101-85	J202-B16	TAN	407259	41.5"	COMM 07, B
177	J101-22	J202-B17	TAN	407259	41.5"	CHANNEL 35, B
178	J101-55	J202-B18	TAN	407259	41.5"	CHANNEL 34, B
179	J101-87	J202-B19	TAN	407259	41.5"	CHANNEL 33, B
180	J101-24	J202-B20	TAN	407259	41.5"	CHANNEL 32, B
181	J101-57	J202-B21	TAN	407259	41.5"	CHANNEL 31, B
182	J101-89	J202-B22	TAN	407259	41.5"	CHANNEL 30, B
183	J101-26	J202-B23	TAN	407259	41.5"	COMM 06, B
184	J101-59	J202-B24	TAN	407259	41.5"	CHANNEL 29, B
185	J101-91	J202-B25	TAN	407259	41.5"	CHANNEL 28, B
186	J101-28	J202-B26	TAN	407259	41.5"	CHANNEL 27, B
187	J101-61	J202-B27	TAN	407259	41.5"	CHANNEL 26, B
188	J101-93	J202-B28	TAN	407259	41.5"	CHANNEL 25, B

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

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HARNESS ASSEMBLY, 1260-35 TO VP90	A	21793	407280	D
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
189	J101-30	J202-B29	TAN	407259	41.5"	CHANNEL 24, B
190	J101-63	J202-B30	TAN	407259	41.5"	COMM 05, B
191	J101-95	J202-B31	TAN	407259	41.5"	GND
192	J101-32	J202-B32	TAN	407259	41.5"	GND
193	J102-33	J203-A1	RED	407259	41.5"	GND
194	J102-34	J203-A2	BRN	407259	41.5"	GND
195	J102-35	J203-A3	BLK	407259	41.5"	CHANNEL 95, A
196	J102-36	J203-A4	WHT	407259	41.5"	CHANNEL 94, A
197	J102-37	J203-A5	GRY	407259	41.5"	CHANNEL 93, A
198	J102-38	J203-A6	VIO	407259	41.5"	CHANNEL 92, A
199	J102-39	J203-A7	BLU	407259	41.5"	CHANNEL 91, A
200	J102-40	J203-A8	GRN	407259	41.5"	CHANNEL 90, A
201	J102-41	J203-A9	YEL	407259	41.5"	COMM 16, A
202	J102-42	J203-A10	ORN	407259	41.5"	CHANNEL 89, A
203	J102-43	J203-A11	RED	407259	41.5"	CHANNEL 88, A
204	J102-44	J203-A12	BRN	407259	41.5"	CHANNEL 87, A
205	J102-45	J203-A13	BLK	407259	41.5"	CHANNEL 86, A
206	J102-46	J203-A14	WHT	407259	41.5"	CHANNEL 85, A
207	J102-47	J203-A15	GRY	407259	41.5"	CHANNEL 84, A
208	J102-48	J203-A16	VIO	407259	41.5"	COMM 15, A
209	J102-49	J203-A17	BLU	407259	41.5"	CHANNEL 83, A
210	J102-50	J203-A18	GRN	407259	41.5"	CHANNEL 82, A
211	J102-51	J203-A19	YEL	407259	41.5"	CHANNEL 81, A
212	J102-52	J203-A20	ORN	407259	41.5"	CHANNEL 80, A
213	J102-53	J203-A21	RED	407259	41.5"	CHANNEL 79, A
214	J102-54	J203-A22	BRN	407259	41.5"	CHANNEL 78, A
215	J102-55	J203-A23	BLK	407259	41.5"	COMM 14, A
216	J102-56	J203-A24	WHT	407259	41.5"	CHANNEL 77, A
217	J102-57	J203-A25	GRY	407259	41.5"	CHANNEL 76, A
218	J102-58	J203-A26	VIO	407259	41.5"	CHANNEL 75, A
219	J102-59	J203-A27	BLU	407259	41.5"	CHANNEL 74, A
220	J102-60	J203-A28	GRN	407259	41.5"	CHANNEL 73, A
221	J102-61	J203-A29	YEL	407259	41.5"	CHANNEL 72, A
222	J102-62	J203-A30	ORN	407259	41.5"	COMM 13, A
223	J102-63	J203-A31	RED	407259	41.5"	GND
224	J102-64	J203-A32	BRN	407259	41.5"	GND
225	J102-1	J203-B1	TAN	407259	41.5"	GND
226	J102-2	J203-B2	TAN	407259	41.5"	GND
227	J102-3	J203-B3	TAN	407259	41.5"	CHANNEL 95, B
228	J102-4	J203-B4	TAN	407259	41.5"	CHANNEL 94, B
229	J102-5	J203-B5	TAN	407259	41.5"	CHANNEL 93, B
230	J102-6	J203-B6	TAN	407259	41.5"	CHANNEL 92, B
231	J102-7	J203-B7	TAN	407259	41.5"	CHANNEL 91, B
232	J102-8	J203-B8	TAN	407259	41.5"	CHANNEL 90, B
233	J102-9	J203-B9	TAN	407259	41.5"	COMM 16, B
234	J102-10	J203-B10	TAN	407259	41.5"	CHANNEL 89, B

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RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
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HARNESS ASSEMBLY, 1260-35 TO VP90	A	21793	407280	D
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
235	J102-11	J203-B11	TAN	407259	41.5"	CHANNEL 88, B
236	J102-12	J203-B12	TAN	407259	41.5"	CHANNEL 87, B
237	J102-13	J203-B13	TAN	407259	41.5"	CHANNEL 86, B
238	J102-14	J203-B14	TAN	407259	41.5"	CHANNEL 85, B
239	J102-15	J203-B15	TAN	407259	41.5"	CHANNEL 84, B
240	J102-16	J203-B16	TAN	407259	41.5"	COMM 15, B
241	J102-17	J203-B17	TAN	407259	41.5"	CHANNEL 83, B
242	J102-18	J203-B18	TAN	407259	41.5"	CHANNEL 82, B
243	J102-19	J203-B19	TAN	407259	41.5"	CHANNEL 81, B
244	J102-20	J203-B20	TAN	407259	41.5"	CHANNEL 80, B
245	J102-21	J203-B21	TAN	407259	41.5"	CHANNEL 79, B
246	J102-22	J203-B22	TAN	407259	41.5"	CHANNEL 78, B
247	J102-23	J203-B23	TAN	407259	41.5"	COMM 14, B
248	J102-24	J203-B24	TAN	407259	41.5"	CHANNEL 77, B
249	J102-25	J203-B25	TAN	407259	41.5"	CHANNEL 76, B
250	J102-26	J203-B26	TAN	407259	41.5"	CHANNEL 75, B
251	J102-27	J203-B27	TAN	407259	41.5"	CHANNEL 74, B
252	J102-28	J203-B28	TAN	407259	41.5"	CHANNEL 73, B
253	J102-29	J203-B29	TAN	407259	41.5"	CHANNEL 72, B
254	J102-30	J203-B30	TAN	407259	41.5"	COMM 13, B
255	J102-31	J203-B31	TAN	407259	41.5"	GND
256	J102-32	J203-B32	TAN	407259	41.5"	GND

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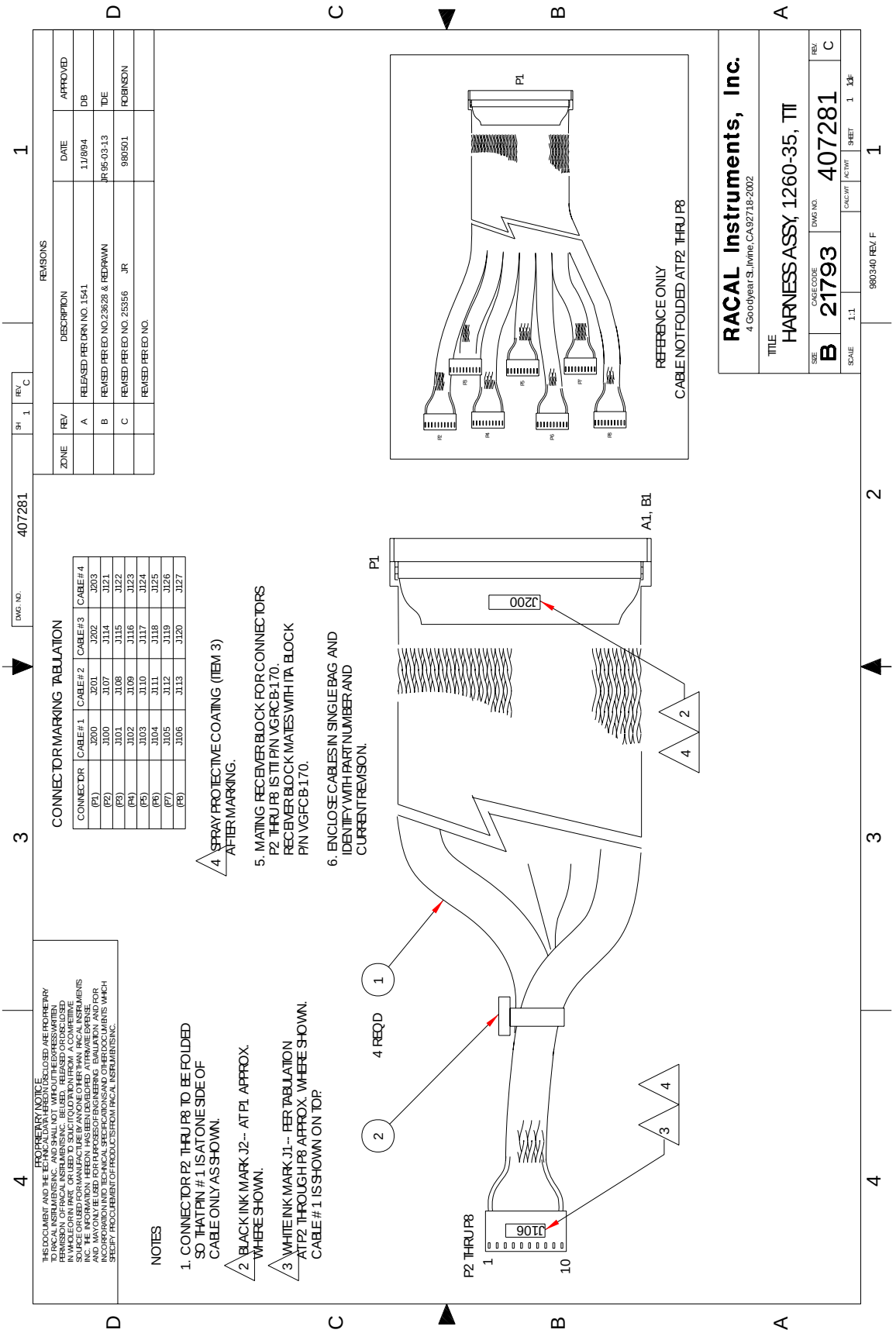
RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-35 TO VP90	A	21793	407280	D
	DRN		SHEET 8 of 8	



ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		407260	CABLE ASSY, IDC, 64-COND, TTI	4	
2		610777	TIE-CA-LGK-.065-.075	A/R	
3		910541	POLYURETHANE CONF. COAT	A/R	

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RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-35, TTI	A	21793	407281	C
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx RW 01 (J100)	Uxx-SLOT yy (J200)	CABLE	407281		SYSTEM WIRE LIST
	BLK AAx RW 02 (J101)	Uxx-SLOT yy (J200)	CABLE	407281		
	BLK AAx RW 03 (J102)	Uxx-SLOT yy (J200)	CABLE	407281		
	BLK AAx RW 04 (J103)	Uxx-SLOT yy (J200)	CABLE	407281		
	BLK AAx RW 05 (J104)	Uxx-SLOT yy (J200)	CABLE	407281		
	BLK AAx RW 06 (J105)	Uxx-SLOT yy (J200)	CABLE	407281		
	BLK AAx RW 07 (J106)	Uxx-SLOT yy (J200)	CABLE	407281		
	BLK AAx RW 08 (J107)	Uxx-SLOT yy (J201)	CABLE	407281		
	BLK AAx RW 09 (J108)	Uxx-SLOT yy (J201)	CABLE	407281		
	BLK AAx RW 10 (J109)	Uxx-SLOT yy (J201)	CABLE	407281		
	BLK AAx RW 11 (J110)	Uxx-SLOT yy (J201)	CABLE	407281		
	BLK AAx RW 12 (J111)	Uxx-SLOT yy (J201)	CABLE	407281		
	BLK AAx RW 13 (J112)	Uxx-SLOT yy (J201)	CABLE	407281		
	BLK AAx RW 14 (J113)	Uxx-SLOT yy (J201)	CABLE	407281		
	BLK AAx RW 15 (J114)	Uxx-SLOT yy (J202)	CABLE	407281		
	BLK AAx RW 16 (J115)	Uxx-SLOT yy (J202)	CABLE	407281		
	BLK AAx RW 17 (J116)	Uxx-SLOT yy (J202)	CABLE	407281		
	BLK AAx RW 18 (J117)	Uxx-SLOT yy (J202)	CABLE	407281		
	BLK AAx RW 19 (J118)	Uxx-SLOT yy (J202)	CABLE	407281		
	BLK AAx RW 20 (J119)	Uxx-SLOT yy (J202)	CABLE	407281		
	BLK AAx RW 21 (J120)	Uxx-SLOT yy (J202)	CABLE	407281		
	BLK AAx RW 21 (J121)	Uxx-SLOT yy (J203)	CABLE	407281		
	BLK AAx RW 23 (J122)	Uxx-SLOT yy (J203)	CABLE	407281		
	BLK AAx RW 24 (J123)	Uxx-SLOT yy (J203)	CABLE	407281		
	BLK AAx RW 25 (J124)	Uxx-SLOT yy (J203)	CABLE	407281		

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HARNESS ASSY, 1260-35, TTI	A	21793	407281	C
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx RW 26 (J125)	Uxx-SLOT yy (J203)	CABLE	407281		
	BLK AAx RW 27 (J126)	Uxx-SLOT yy (J203)	CABLE	407281		
	BLK AAx RW 28 (J127)	Uxx-SLOT yy (J203)	CABLE	407281		

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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RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSY, 1260-35, TTI	A	21793	407281	C
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J106-3	J200-A1	RED	407260	41.5"	GND
2	J106-1	J200-A2	BRN	407260	41.5"	GND
3	J105-2	J200-A3	BLK	407260	41.5"	CHANNEL 23, A
4	J105-4	J200-A4	WHT	407260	41.5"	CHANNEL 22, A
5	J105-6	J200-A5	GRY	407260	41.5"	CHANNEL 21, A
6	J105-8	J200-A6	VIO	407260	41.5"	CHANNEL 20, A
7	J105-10	J200-A7	BLU	407260	41.5"	CHANNEL 19, A
8	J104-9	J200-A8	GRN	407260	41.5"	CHANNEL 18, A
9	J104-7	J200-A9	YEL	407260	41.5"	COMM 04, A
10	J104-5	J200-A10	ORN	407260	41.5"	CHANNEL 17, A
11	J104-3	J200-A11	RED	407260	41.5"	CHANNEL 16, A
12	J104-1	J200-A12	BRN	407260	41.5"	CHANNEL 15, A
13	J103-2	J200-A13	BLK	407260	41.5"	CHANNEL 14, A
14	J103-4	J200-A14	WHT	407260	41.5"	CHANNEL 13, A
15	J103-6	J200-A15	GRY	407260	41.5"	CHANNEL 12, A
16	J103-8	J200-A16	VIO	407260	41.5"	COMM 03, A
17	J103-10	J200-A17	BLU	407260	41.5"	CHANNEL 11, A
18	J102-9	J200-A18	GRN	407260	41.5"	CHANNEL 10, A
19	J102-7	J200-A19	YEL	407260	41.5"	CHANNEL 09, A
20	J102-5	J200-A20	ORN	407260	41.5"	CHANNEL 08, A
21	J102-3	J200-A21	RED	407260	41.5"	CHANNEL 07, A
22	J102-1	J200-A22	BRN	407260	41.5"	CHANNEL 06, A
23	J101-2	J200-A23	BLK	407260	41.5"	COMM 02, A
24	J101-4	J200-A24	WHT	407260	41.5"	CHANNEL 05, A
25	J101-6	J200-A25	GRY	407260	41.5"	CHANNEL 04, A
26	J101-8	J200-A26	VIO	407260	41.5"	CHANNEL 03, A
27	J101-10	J200-A27	BLU	407260	41.5"	CHANNEL 02, A
28	J100-9	J200-A28	GRN	407260	41.5"	CHANNEL 01, A
29	J100-7	J200-A29	YEL	407260	41.5"	CHANNEL 00, A
30	J100-5	J200-A30	ORN	407260	41.5"	COMM 01, A
31	J100-3	J200-A31	RED	407260	41.5"	J200-A31
32	J100-1	J200-A32	BRN	407260	41.5"	ABUS1, A
33	J106-4	J200-B1	TAN	407260	41.5"	GND
34	J106-2	J200-B2	TAN	407260	41.5"	GND
35	J105-1	J200-B3	TAN	407260	41.5"	CHANNEL 23, B
36	J105-3	J200-B4	TAN	407260	41.5"	CHANNEL 22, B
37	J105-5	J200-B5	TAN	407260	41.5"	CHANNEL 21, B
38	J105-7	J200-B6	TAN	407260	41.5"	CHANNEL 20, B
39	J105-9	J200-B7	TAN	407260	41.5"	CHANNEL 19, B
40	J104-10	J200-B8	TAN	407260	41.5"	CHANNEL 18, B
41	J104-8	J200-B9	TAN	407260	41.5"	COMM 04, B
42	J104-6	J200-B10	TAN	407260	41.5"	CHANNEL 17, B
43	J104-4	J200-B11	TAN	407260	41.5"	CHANNEL 16, B
44	J104-2	J200-B12	TAN	407260	41.5"	CHANNEL 15, B
45	J103-1	J200-B13	TAN	407260	41.5"	CHANNEL 14, B
46	J103-3	J200-B14	TAN	407260	41.5"	CHANNEL 13, B
47	J103-5	J200-B15	TAN	407260	41.5"	CHANNEL 12, B
48	J103-7	J200-B16	TAN	407260	41.5"	COMM 03, B

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

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-35, TTI	A	21793	407281	C
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
49	J103-9	J200-B17	TAN	407260	41.5"	CHANNEL 11, B
50	J102-10	J200-B18	TAN	407260	41.5"	CHANNEL 10, B
51	J102-8	J200-B19	TAN	407260	41.5"	CHANNEL 09, B
52	J102-6	J200-B20	TAN	407260	41.5"	CHANNEL 08, B
53	J102-4	J200-B21	TAN	407260	41.5"	CHANNEL 07, B
54	J102-2	J200-B22	TAN	407260	41.5"	CHANNEL 06, B
55	J101-1	J200-B23	TAN	407260	41.5"	COMM 02, B
56	J101-3	J200-B24	TAN	407260	41.5"	CHANNEL 05, B
57	J101-5	J200-B25	TAN	407260	41.5"	CHANNEL 04, B
58	J101-7	J200-B26	TAN	407260	41.5"	CHANNEL 03, B
59	J101-9	J200-B27	TAN	407260	41.5"	CHANNEL 02, B
60	J100-10	J200-B28	TAN	407260	41.5"	CHANNEL 01, B
61	J100-8	J200-B29	TAN	407260	41.5"	CHANNEL 00, B
62	J100-6	J200-B30	TAN	407260	41.5"	COMM 01, B
63	J100-4	J200-B31	TAN	407260	41.5"	J200-A31
64	J100-2	J200-B32	TAN	407260	41.5"	ABUS1, B
65	J113-3	J201-A1	RED	407260	41.5"	GND
66	J113-1	J201-A2	BRN	407260	41.5"	GND
67	J112-2	J201-A3	BLK	407260	41.5"	CHANNEL 71, A
68	J112-4	J201-A4	WHT	407260	41.5"	CHANNEL 70, A
69	J112-6	J201-A5	GRY	407260	41.5"	CHANNEL 69, A
70	J112-8	J201-A6	VIO	407260	41.5"	CHANNEL 68, A
71	J112-10	J201-A7	BLU	407260	41.5"	CHANNEL 67, A
72	J111-9	J201-A8	GRN	407260	41.5"	CHANNEL 66, A
73	J111-7	J201-A9	YEL	407260	41.5"	COMM 12, A
74	J111-5	J201-A10	ORN	407260	41.5"	CHANNEL 65, A
75	J111-3	J201-A11	RED	407260	41.5"	CHANNEL 64, A
76	J111-1	J201-A12	BRN	407260	41.5"	CHANNEL 63, A
77	J110-2	J201-A13	BLK	407260	41.5"	CHANNEL 62, A
78	J110-4	J201-A14	WHT	407260	41.5"	CHANNEL 61, A
79	J110-6	J201-A15	GRY	407260	41.5"	CHANNEL 60, A
80	J110-8	J201-A16	VIO	407260	41.5"	COMM 11, A
81	J110-10	J201-A17	BLU	407260	41.5"	CHANNEL 59, A
82	J109-9	J201-A18	GRN	407260	41.5"	CHANNEL 58, A
83	J109-7	J201-A19	YEL	407260	41.5"	CHANNEL 57, A
84	J109-5	J201-A20	ORN	407260	41.5"	CHANNEL 56, A
85	J109-3	J201-A21	RED	407260	41.5"	CHANNEL 55, A
86	J109-1	J201-A22	BRN	407260	41.5"	CHANNEL 54, A
87	J108-2	J201-A23	BLK	407260	41.5"	COMM 10A
88	J108-4	J201-A24	WHT	407260	41.5"	CHANNEL 53, A
89	J108-6	J201-A25	GRY	407260	41.5"	CHANNEL 52, A
90	J108-8	J201-A26	VIO	407260	41.5"	CHANNEL 51, A
91	J108-10	J201-A27	BLU	407260	41.5"	CHANNEL 50, A
92	J107-9	J201-A28	GRN	407260	41.5"	CHANNEL 49, A
93	J107-7	J201-A29	YEL	407260	41.5"	CHANNEL 48, A
94	J107-5	J201-A30	ORN	407260	41.5"	COMM 09, A
95	J107-3	J201-A31	RED	407260	41.5"	J201-A31
96	J107-1	J201-A32	BRN	407260	41.5"	ABUS2, A

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

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
97	J113-4	J201-B1	TAN	407260	41.5"	GND
98	J113-2	J201-B2	TAN	407260	41.5"	GND
99	J112-1	J201-B3	TAN	407260	41.5"	CHANNEL 71, B
100	J112-3	J201-B4	TAN	407260	41.5"	CHANNEL 70, B
101	J112-5	J201-B5	TAN	407260	41.5"	CHANNEL 69, B
102	J112-7	J201-B6	TAN	407260	41.5"	CHANNEL 68, B
103	J112-9	J201-B7	TAN	407260	41.5"	CHANNEL 67, B
104	J111-10	J201-B8	TAN	407260	41.5"	CHANNEL 66, B
105	J111-8	J201-B9	TAN	407260	41.5"	COMM 12, B
106	J111-6	J201-B10	TAN	407260	41.5"	CHANNEL 65, B
107	J111-4	J201-B11	TAN	407260	41.5"	CHANNEL 64, B
108	J111-2	J201-B12	TAN	407260	41.5"	CHANNEL 63, B
109	J110-1	J201-B13	TAN	407260	41.5"	CHANNEL 62, B
110	J110-3	J201-B14	TAN	407260	41.5"	CHANNEL 61, B
111	J110-5	J201-B15	TAN	407260	41.5"	CHANNEL 60, B
112	J110-7	J201-B16	TAN	407260	41.5"	COMM 11, B
113	J110-9	J201-B17	TAN	407260	41.5"	CHANNEL 59, B
114	J109-10	J201-B18	TAN	407260	41.5"	CHANNEL 58, B
115	J109-8	J201-B19	TAN	407260	41.5"	CHANNEL 57, B
116	J109-6	J201-B20	TAN	407260	41.5"	CHANNEL 56, B
117	J109-4	J201-B21	TAN	407260	41.5"	CHANNEL 55, B
118	J109-2	J201-B22	TAN	407260	41.5"	CHANNEL 54, B
119	J108-1	J201-B23	TAN	407260	41.5"	COMM 10, B
120	J108-3	J201-B24	TAN	407260	41.5"	CHANNEL 53, B
121	J108-5	J201-B25	TAN	407260	41.5"	CHANNEL 52, B
122	J108-7	J201-B26	TAN	407260	41.5"	CHANNEL 51, B
123	J108-9	J201-B27	TAN	407260	41.5"	CHANNEL 50, B
124	J107-10	J201-B28	TAN	407260	41.5"	CHANNEL 49, B
125	J107-8	J201-B29	TAN	407260	41.5"	CHANNEL 48, B
126	J107-6	J201-B30	TAN	407260	41.5"	COMM 09, B
127	J107-4	J201-B31	TAN	407260	41.5"	J201-A31
128	J107-2	J201-B32	TAN	407260	41.5"	ABUS2, B
129	J120-3	J202-A1	RED	407260	41.5"	GND
130	J120-1	J202-A2	BRN	407260	41.5"	GND
131	J119-2	J202-A3	BLK	407260	41.5"	CHANNEL 47, A
132	J119-4	J202-A4	WHT	407260	41.5"	CHANNEL 46, A
133	J119-6	J202-A5	GRY	407260	41.5"	CHANNEL 45, A
134	J119-8	J202-A6	VIO	407260	41.5"	CHANNEL 44, A
135	J119-10	J202-A7	BLU	407260	41.5"	CHANNEL 43, A
136	J118-9	J202-A8	GRN	407260	41.5"	CHANNEL 42, A
137	J118-7	J202-A9	YEL	407260	41.5"	COMM 08A
138	J118-5	J202-A10	ORN	407260	41.5"	CHANNEL 41, A
139	J118-3	J202-A11	RED	407260	41.5"	CHANNEL 40, A
140	J118-1	J202-A12	BRN	407260	41.5"	CHANNEL 39, A
141	J117-2	J202-A13	BLK	407260	41.5"	CHANNEL 38 ,A
142	J117-4	J202-A14	WHT	407260	41.5"	CHANNEL 37 ,A

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
143	J117-6	J202-A15	GRY	407260	41.5"	CHANNEL 36, A
144	J117-8	J202-A16	VIO	407260	41.5"	COMM 07, A
145	J117-10	J202-A17	BLU	407260	41.5"	CHANNEL 35, A
146	J116-9	J202-A18	GRN	407260	41.5"	CHANNEL 34, A
147	J116-7	J202-A19	YEL	407260	41.5"	CHANNEL 33, A
148	J116-5	J202-A20	ORN	407260	41.5"	CHANNEL 32, A
149	J116-3	J202-A21	RED	407260	41.5"	CHANNEL 31, A
150	J116-1	J202-A22	BRN	407260	41.5"	CHANNEL 30, A
151	J115-2	J202-A23	BLK	407260	41.5"	COMM 06, A
152	J115-4	J202-A24	WHT	407260	41.5"	CHANNEL 29, A
153	J115-6	J202-A25	GRY	407260	41.5"	CHANNEL 28, A
154	J115-8	J202-A26	VIO	407260	41.5"	CHANNEL 27, A
155	J115-10	J202-A27	BLU	407260	41.5"	CHANNEL 26, A
156	J114-9	J202-A28	GRN	407260	41.5"	CHANNEL 25, A
157	J114-7	J202-A29	YEL	407260	41.5"	CHANNEL 24, A
158	J114-5	J202-A30	ORN	407260	41.5"	COMM 05, A
159	J114-3	J202-A31	RED	407260	41.5"	GND
160	J114-1	J202-A32	BRN	407260	41.5"	GND
161	J120-4	J202-B1	TAN	407260	41.5"	GND
162	J120-2	J202-B2	TAN	407260	41.5"	GND
163	J119-1	J202-B3	TAN	407260	41.5"	CHANNEL 47, B
164	J119-3	J202-B4	TAN	407260	41.5"	CHANNEL 46, B
165	J119-5	J202-B5	TAN	407260	41.5"	CHANNEL 45, B
166	J119-7	J202-B6	TAN	407260	41.5"	CHANNEL 44, B
167	J119-9	J202-B7	TAN	407260	41.5"	CHANNEL 43, B
168	J118-10	J202-B8	TAN	407260	41.5"	CHANNEL 42, B
169	J118-8	J202-B9	TAN	407260	41.5"	COMM 08, B
170	J118-6	J202-B10	TAN	407260	41.5"	CHANNEL 41, B
171	J118-4	J202-B11	TAN	407260	41.5"	CHANNEL 40, B
172	J118-2	J202-B12	TAN	407260	41.5"	CHANNEL 39, B
173	J117-1	J202-B13	TAN	407260	41.5"	CHANNEL 38, B
174	J117-3	J202-B14	TAN	407260	41.5"	CHANNEL 37, B
175	J117-5	J202-B15	TAN	407260	41.5"	CHANNEL 36, B
176	J117-7	J202-B16	TAN	407260	41.5"	COMM 07, B
177	J117-9	J202-B17	TAN	407260	41.5"	CHANNEL 35, B
178	J116-10	J202-B18	TAN	407260	41.5"	CHANNEL 34, B
179	J116-8	J202-B19	TAN	407260	41.5"	CHANNEL 33, B
180	J116-6	J202-B20	TAN	407260	41.5"	CHANNEL 32, B
181	J116-4	J202-B21	TAN	407260	41.5"	CHANNEL 31, B
182	J116-2	J202-B22	TAN	407260	41.5"	CHANNEL 30, B
183	J115-1	J202-B23	TAN	407260	41.5"	COMM 06, B
184	J115-3	J202-B24	TAN	407260	41.5"	CHANNEL 29, B
185	J115-5	J202-B25	TAN	407260	41.5"	CHANNEL 28, B
186	J115-7	J202-B26	TAN	407260	41.5"	CHANNEL 27, B
187	J115-9	J202-B27	TAN	407260	41.5"	CHANNEL 26, B
188	J114-10	J202-B28	TAN	407260	41.5"	CHANNEL 25, B
189	J114-8	J202-B29	TAN	407260	41.5"	CHANNEL 24, B
190	J114-6	J202-B30	TAN	407260	41.5"	COMM 05, B

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
191	J114-4	J202-B31	TAN	407260	41.5"	GND
192	J114-2	J202-B32	TAN	407260	41.5"	GND
193	J127-3	J203-A1	RED	407260	41.5"	GND
194	J127-1	J203-A2	BRN	407260	41.5"	GND
195	J126-2	J203-A3	BLK	407260	41.5"	CHANNEL 95, A
196	J126-4	J203-A4	WHT	407260	41.5"	CHANNEL 94, A
197	J126-6	J203-A5	GRY	407260	41.5"	CHANNEL 93, A
198	J126-8	J203-A6	VIO	407260	41.5"	CHANNEL 92, A
199	J126-10	J203-A7	BLU	407260	41.5"	CHANNEL 91, A
200	J125-9	J203-A8	GRN	407260	41.5"	CHANNEL 90, A
201	J125-7	J203-A9	YEL	407260	41.5"	COMM 16, A
202	J125-5	J203-A10	ORN	407260	41.5"	CHANNEL 89, A
203	J125-3	J203-A11	RED	407260	41.5"	CHANNEL 88, A
204	J125-1	J203-A12	BRN	407260	41.5"	CHANNEL 87, A
205	J124-2	J203-A13	BLK	407260	41.5"	CHANNEL 86, A
206	J124-4	J203-A14	WHT	407260	41.5"	CHANNEL 85, A
207	J124-6	J203-A15	GRY	407260	41.5"	CHANNEL 84, A
208	J124-8	J203-A16	VIO	407260	41.5"	COMM 15, A
209	J124-10	J203-A17	BLU	407260	41.5"	CHANNEL 83, A
210	J123-9	J203-A18	GRN	407260	41.5"	CHANNEL 82, A
211	J123-7	J203-A19	YEL	407260	41.5"	CHANNEL 81, A
212	J123-5	J203-A20	ORN	407260	41.5"	CHANNEL 80, A
213	J123-3	J203-A21	RED	407260	41.5"	CHANNEL 79, A
214	J123-1	J203-A22	BRN	407260	41.5"	CHANNEL 78, A
215	J122-2	J203-A23	BLK	407260	41.5"	COMM 14, A
216	J122-4	J203-A24	WHT	407260	41.5"	CHANNEL 77, A
217	J122-6	J203-A25	GRY	407260	41.5"	CHANNEL 76, A
218	J122-8	J203-A26	VIO	407260	41.5"	CHANNEL 75, A
219	J122-10	J203-A27	BLU	407260	41.5"	CHANNEL 74, A
220	J121-9	J203-A28	GRN	407260	41.5"	CHANNEL 73, A
221	J121-7	J203-A29	YEL	407260	41.5"	CHANNEL 72, A
222	J121-5	J203-A30	ORN	407260	41.5"	COMM 13, A
223	J121-3	J203-A31	RED	407260	41.5"	GND
224	J121-1	J203-A32	BRN	407260	41.5"	GND
225	J127-4	J203-B1	TAN	407260	41.5"	GND
226	J127-2	J203-B2	TAN	407260	41.5"	GND
227	J126-1	J203-B3	TAN	407260	41.5"	CHANNEL 95, B
228	J126-3	J203-B4	TAN	407260	41.5"	CHANNEL 94, B
229	J126-5	J203-B5	TAN	407260	41.5"	CHANNEL 93, B
230	J126-7	J203-B6	TAN	407260	41.5"	CHANNEL 92, B
231	J126-9	J203-B7	TAN	407260	41.5"	CHANNEL 91, B
232	J125-10	J203-B8	TAN	407260	41.5"	CHANNEL 90, B
233	J125-8	J203-B9	TAN	407260	41.5"	COMM 16, B
234	J125-6	J203-B10	TAN	407260	41.5"	CHANNEL 89, B
235	J125-4	J203-B11	TAN	407260	41.5"	CHANNEL 88, B
236	J125-2	J203-B12	TAN	407260	41.5"	CHANNEL 87, B

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
237	J124-1	J203-B13	TAN	407260	41.5"	CHANNEL 86, B
238	J124-3	J203-B14	TAN	407260	41.5"	CHANNEL 85, B
239	J124-5	J203-B15	TAN	407260	41.5"	CHANNEL 84, B
240	J124-7	J203-B16	TAN	407260	41.5"	COMM 15, B
241	J124-9	J203-B17	TAN	407260	41.5"	CHANNEL 83, B
242	J123-10	J203-B18	TAN	407260	41.5"	CHANNEL 82, B
243	J123-8	J203-B19	TAN	407260	41.5"	CHANNEL 81, B
244	J123-6	J203-B20	TAN	407260	41.5"	CHANNEL 80, B
245	J123-4	J203-B21	TAN	407260	41.5"	CHANNEL 79, B
246	J123-2	J203-B22	TAN	407260	41.5"	CHANNEL 78, B
247	J122-1	J203-B23	TAN	407260	41.5"	COMM 14, B
248	J122-3	J203-B24	TAN	407260	41.5"	CHANNEL 77, B
249	J122-5	J203-B25	TAN	407260	41.5"	CHANNEL 76, B
250	J122-7	J203-B26	TAN	407260	41.5"	CHANNEL 75, B
251	J122-9	J203-B27	TAN	407260	41.5"	CHANNEL 74, B
252	J121-10	J203-B28	TAN	407260	41.5"	CHANNEL 73, B
253	J121-8	J203-B29	TAN	407260	41.5"	CHANNEL 72, B
254	J121-6	J203-B30	TAN	407260	41.5"	COMM 13, B
255	J121-4	J203-B31	TAN	407260	41.5"	GND
256	J121-2	J203-B32	TAN	407260	41.5"	GND
257	J106-5	NO CONNECT				
258	J106-6	NO CONNECT				
259	J106-7	NO CONNECT				
260	J106-8	NO CONNECT				
261	J106-9	NO CONNECT				
262	J106-10	NO CONNECT				
263	J113-5	NO CONNECT				
264	J113-6	NO CONNECT				
265	J113-7	NO CONNECT				
266	J113-8	NO CONNECT				
267	J113-9	NO CONNECT				
268	J113-10	NO CONNECT				
269	J120-5	NO CONNECT				
270	J120-6	NO CONNECT				
271	J120-7	NO CONNECT				
272	J120-8	NO CONNECT				
273	J120-9	NO CONNECT				
274	J120-10	NO CONNECT				
275	J127-5	NO CONNECT				
276	J127-6	NO CONNECT				
277	J127-7	NO CONNECT				
278	J127-8	NO CONNECT				

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
279	J127-9	NO CONNECT				
280	J127-10	NO CONNECT				

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RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718				
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
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Chapter 5
PRODUCT SUPPORT

Product Support

EADS North America Defense Test and Services, Inc. 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 closest to your facility, refer to the website for the most complete information http://www.eads-nadefense.com.

Warranty

Use the original packing material when returning the 1260-35 to EADS North America Defense Test and Services, Inc. for calibration or servicing. The original shipping container and associated packaging material will provide the necessary protection for safe reshipment.

If the original packing material is unavailable, contact EADS North America Defense Test and Services, Inc. Customer Service at 1-800-722-3262 for information.

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 EADS North America Defense Test and Service, Inc. Repair Facility.

Model_____ Serial No._____ Date_____

Company Name_____ Purchase Order #_____

Billing Address_____

City

State/Province Zip/Postal Code Country

Shipping Address_____

City

State/Province Zip/Postal Code Country

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

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

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

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

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

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

Ship instruments to nearest support office.