

# **RACAL INSTRUMENTS™**

## **1260-40**

### **SWITCH MODULE**

**PUBLICATION NO. 980673-007**

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](mailto:info@eads-nadefense.com)  
[sales@eads-nadefense.com](mailto:sales@eads-nadefense.com)  
[helpdesk@eads-nadefense.com](mailto:helpdesk@eads-nadefense.com)  
<http://www.eads-nadefense.com>



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# FOR YOUR SAFETY

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



**CAUTION**  
RISK OF ELECTRICAL SHOCK  
DO NOT OPEN



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



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



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



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

Before operating this instrument:

1. Ensure the proper fuse is in place for the power source to operate.
2. Ensure all other devices connected to or in proximity to this instrument are properly grounded or connected to the protective third-wire earth ground.

If the instrument:

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

Do not operate until performance is checked by qualified personnel

# Racal Instruments

## EC Declaration of Conformity

We

Racal Instruments Inc.  
4 Goodyear Street  
Irvine, CA 92718

declare under sole responsibility that the

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

They conform to the following Product Specifications:

**Safety:** EN61010-1:1993+A2:1995

**EMC:** EN61326:1997+A1:1998

**Supplementary Information:**

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

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

Irvine, CA, April 25, 2002

  
Engineering Director

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**NOTE FOR SYSTEMS WITH 1260-OPT 01T**

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

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

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

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

The new syntax used to close a channel is:

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

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

CLOSE (@ 7 (0))

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

CLOSE 7.0

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

### Control Information for the 1260-40A

The following information describes the control-register-to-relay-channel mapping for a 1260-40A Relay Module. This information may be used to control a 1260-40A when using a 1260-01T in the register-based mode of operation.

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

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

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

Channel	Control Register	Control Bit
0000	0	0
0001	0	4
0002	3	0
0003	3	4
0004	1	0
0005	1	4
0006	4	0
0007	4	4
0008	2	0
0009	2	4
0010	5	0
0011	5	4
0012	6	0
0013	6	4
0014	9	0
0015	9	4
0016	7	0
0017	7	4
0018	10	0
0019	10	4
0020	8	0



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

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

**Control Information for the 1260-40B**

The following information describes the control-register-to-relay-channel mapping for a 1260-40B Relay Module. This information may be used to control a 1260-40B when using a 1260-01T in the register-based mode of operation.

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

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

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

Channel	Control Register	Control Bit
0000	0	0
0001	0	4
0002	3	0
0003	3	4
0004	1	0
0005	1	4
0006	4	0
0007	4	4
0008	2	0
0009	2	4
0010	5	0
0011	5	4
0100	0	1
0101	0	5
0102	3	1
0103	3	5
0104	1	1
0105	1	5
0106	4	1
0107	4	5
0108	2	1

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

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

### Control Information for the 1260-40C

The following information describes the control-register-to-relay-channel mapping for a 1260-40C Relay Module. This information may be used to control a 1260-40C when using a 1260-01T in the register-based mode of operation.

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

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

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

Channel	Control Register	Control Bit
0000	0	0
0001	0	4
0002	3	0
0003	3	4
0004	1	0
0005	1	4
0006	4	0
0007	4	4
0008	2	0
0009	2	4
0010	5	0
0011	5	4
0100	0	1
0101	0	5
0102	3	1
0103	3	5
0104	1	1
0105	1	5
0106	4	1
0107	4	5
0108	2	1

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

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



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# Chapter 1

## MODULE SPECIFICATION

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### 1260-40 Signal Matrix Module

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

#### Switch Configurations

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

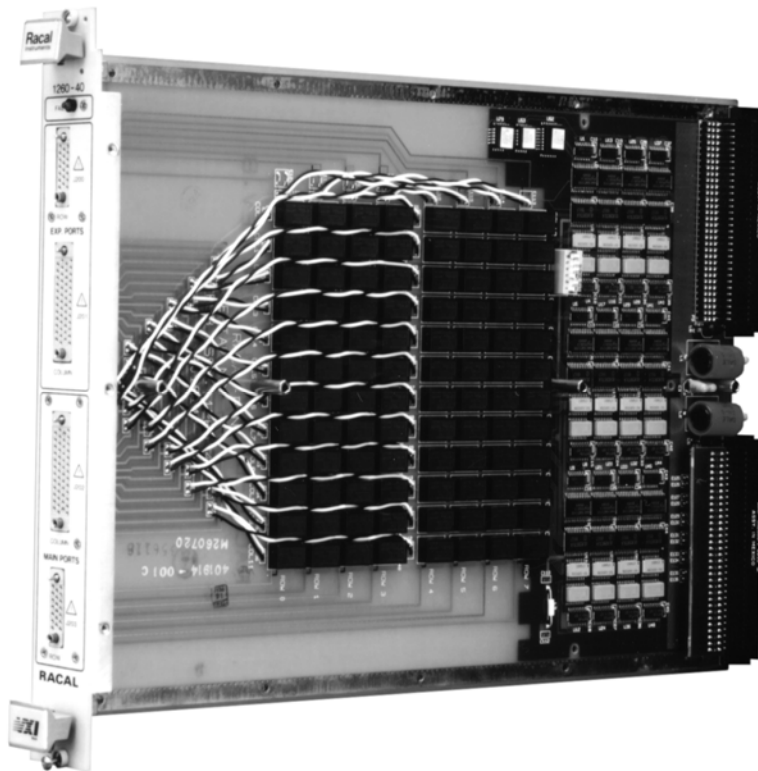
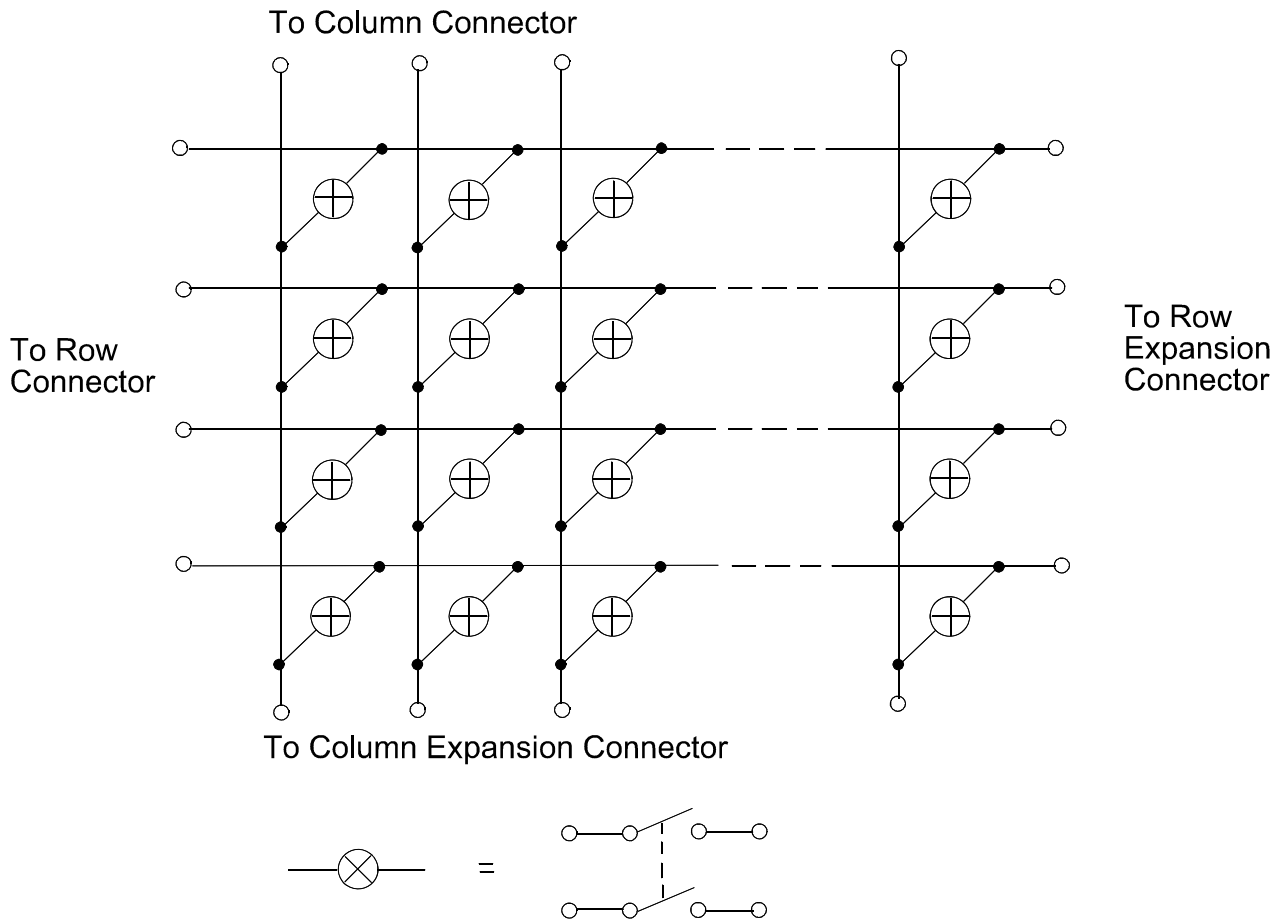


Figure 1-1 1260-40



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

Figure 1-2 1260-40 Functional Diagram.

## Specifications

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

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## INSTALLATION INSTRUCTIONS

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### Unpacking and Inspection



1. Remove the 1260-40 module and inspect it for damage. If any damage is apparent, inform the carrier immediately. Retain shipping carton and packing material for the carrier's inspection.
2. Verify that the pieces in the package you received contain the correct 1260-40 module option and the 1260-40 Users Manual. Notify 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 1260-40 module is shipped in an anti-static bag to prevent electrostatic damage to the module. Do not remove the module from the anti-static bag unless it is in a static-controlled area.

### Reshipment Instructions

1. Use the original packing when returning the switching module to 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 into the 1260-40 is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

## Module Installation

Installation of the 1260-40 Switching Module into a VXI mainframe, including the setting of DIP switches, is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

## 1260-40 ID Byte

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

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

## MODULE SPECIFIC SYNTAX

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### 1260-40 Module Specific Syntax

The Module Specific Syntax for the 1260-40 is required in the use of the OPEN and CLOSE commands. It will also appear in data output by the Master in response to the PDATAOUT and PSETUP commands.

---

### Syntax

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

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

where <module address> is the address.

---

**NOTE:**

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

---

<group number> is a reference to the matrix containing the relay to be switched. It is value 0 for the 1260-40A and 1260-40B, and value 0 or 1 for the 1260-40C. The 1260-40A and 1260-40B contain only one matrix and <group number> may be omitted if desired.

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

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

Refer to **Figures 3-1, 3-2 and 3-3** for the group numbers, row numbers, column numbers and connector pins to be used in the various configurations of the 124040. Note that **Figure 3-3** shows the <group number> and <row number> together.

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

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

Example:      OPEN 3.0101-0304

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

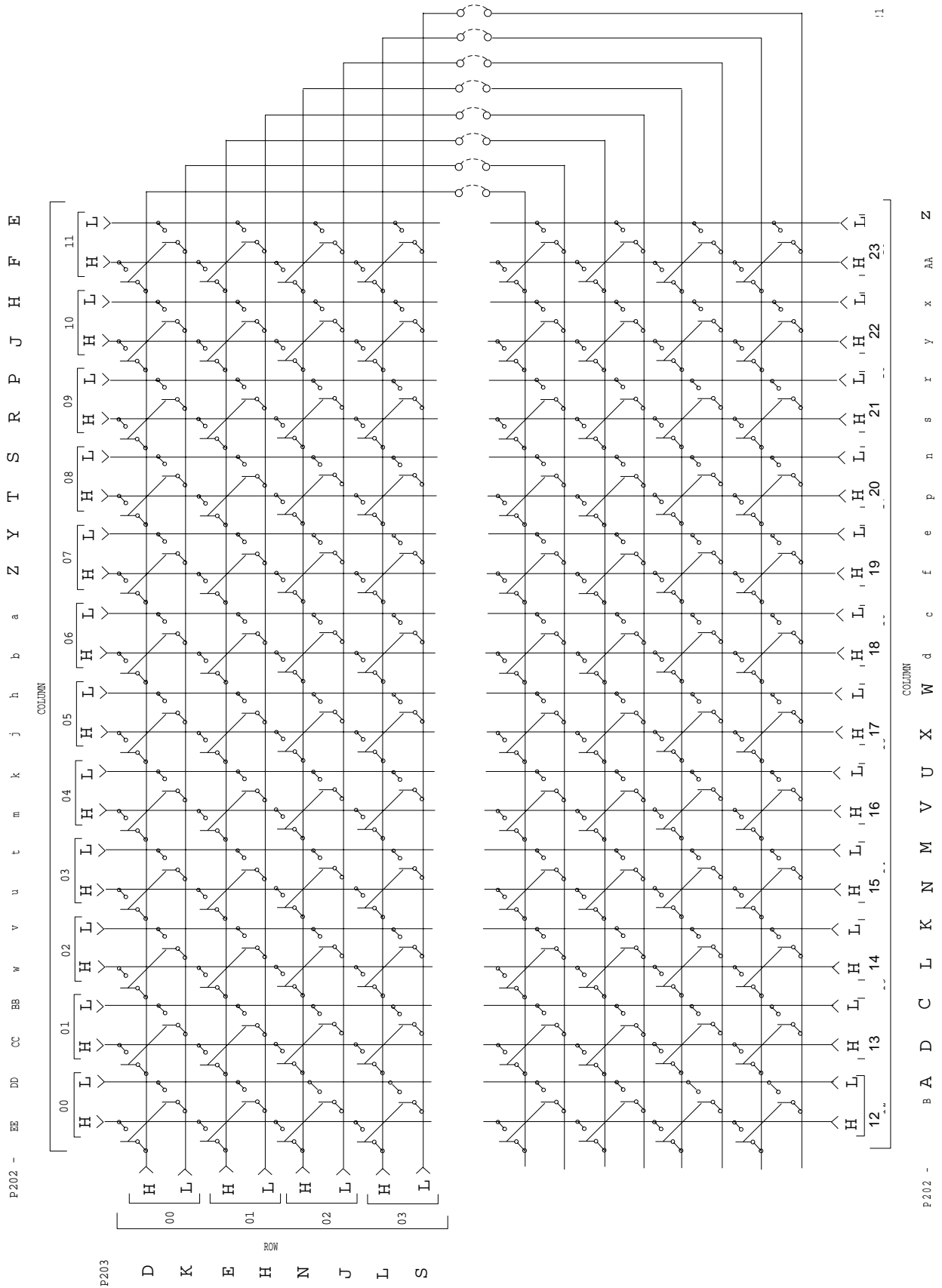


Figure 3-1 1260-40A Configuration

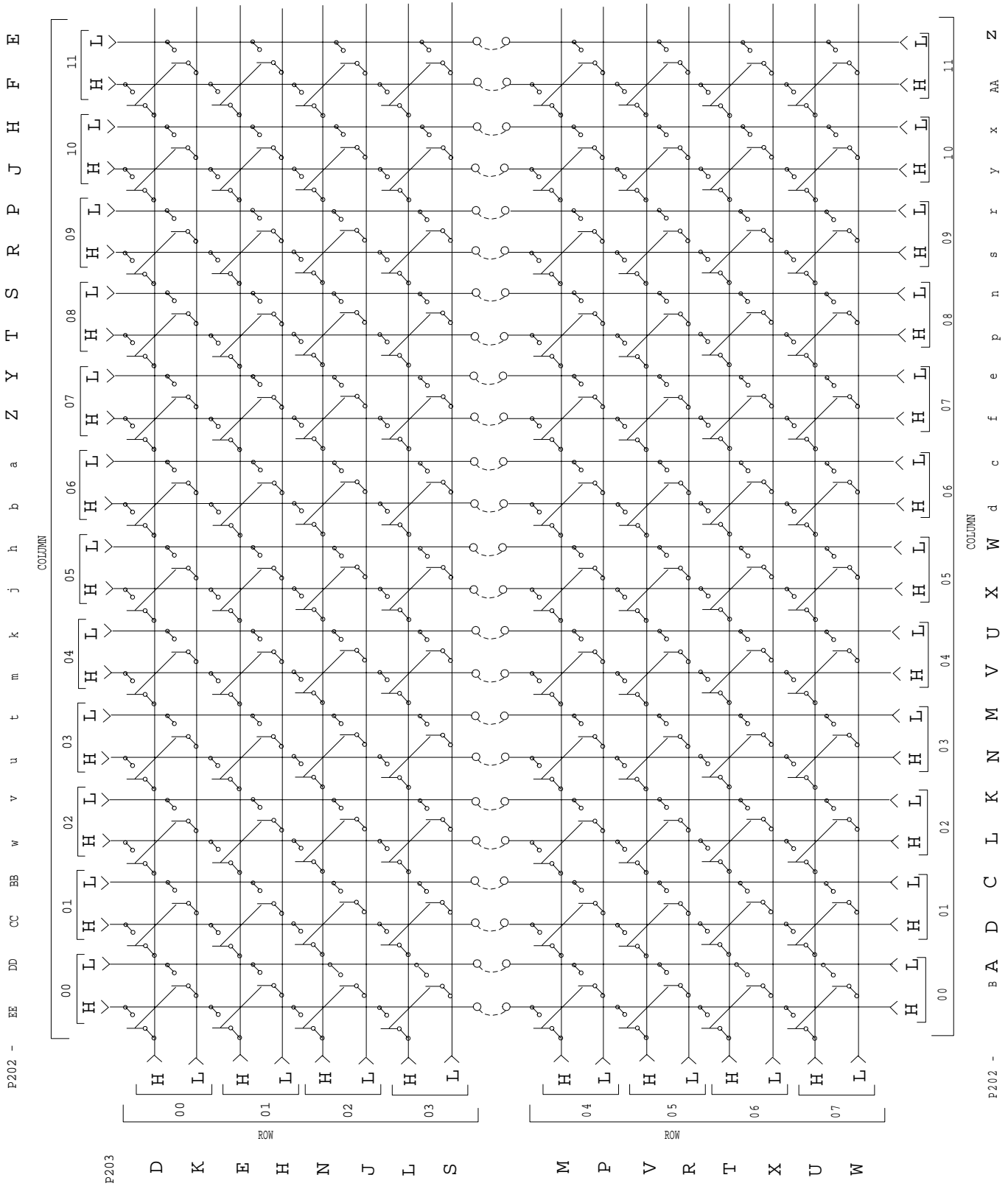


Figure 3-2 1260-40B Configuration

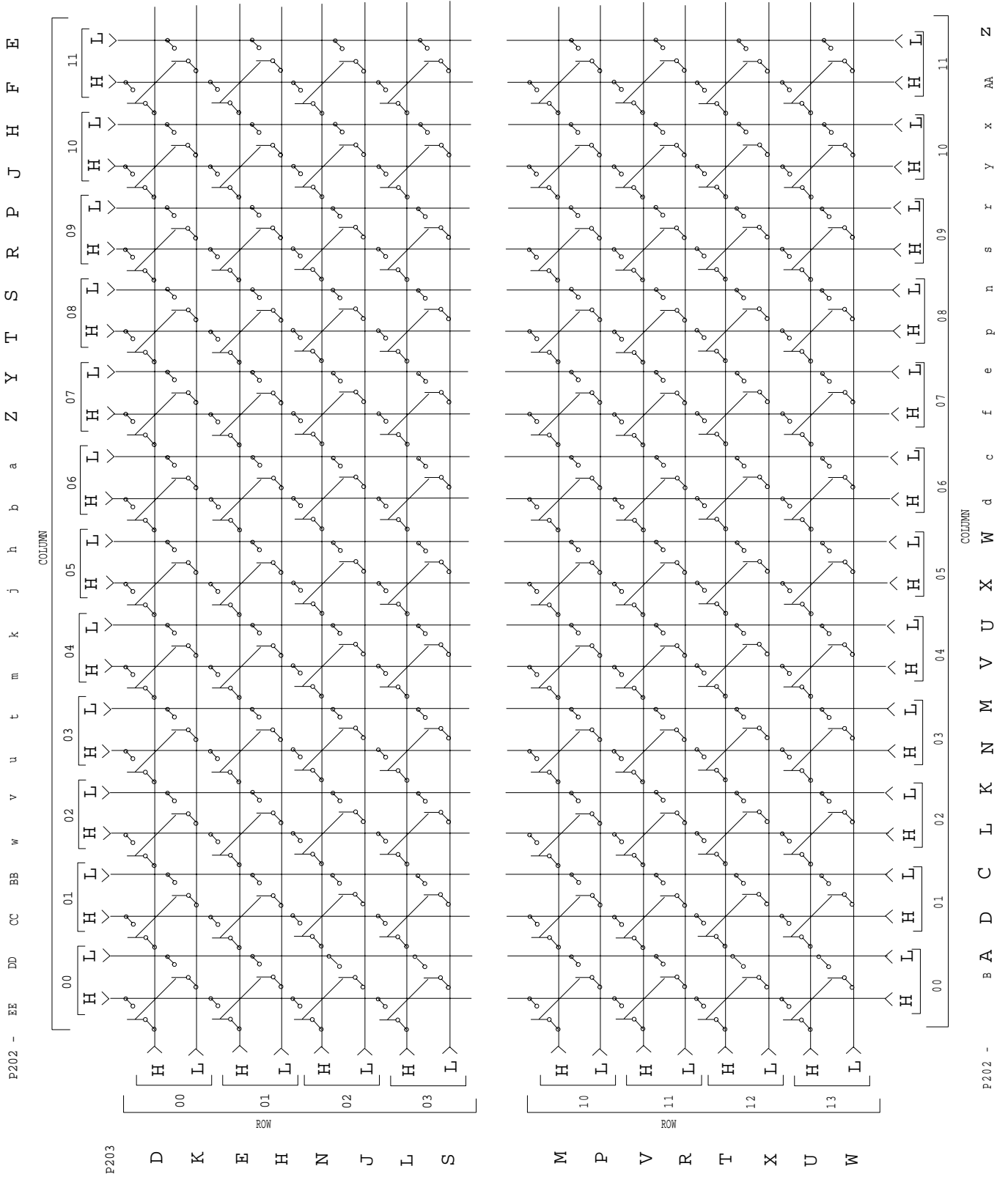


Figure 3-3 1260-40C Configuration

### 1260-40 Connector Pin Configuration

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

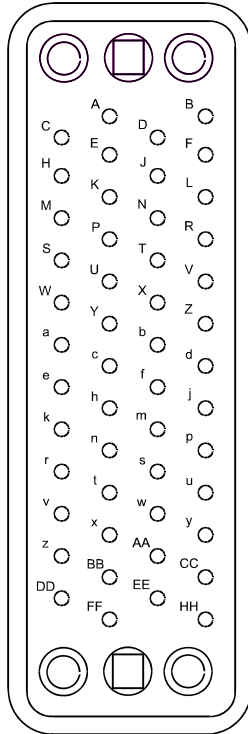


Figure 3-4 1260-40 P201 and P202 Pin Configuration

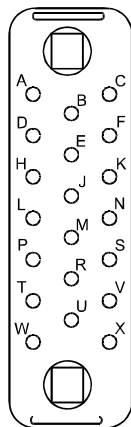
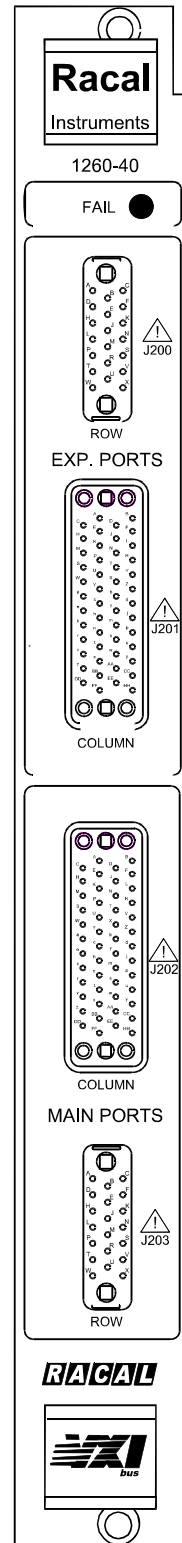


Figure 3-5 1260-40 P200 and P203 Pin Configuration





## 1260-40 Expansion Port

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

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

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

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

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## ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J202,J203)	CABLE	407284		SYSTEM WIRE LIST
<p>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.</p>						
<p style="font-size: small;">RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718</p>						
DOCUMENT TITLE			SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, VP90			A	21793	407284	A
			DRN	SHEET 3 of 7		

DOC. NO. 407284

## ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-33 (602201-003)	J203-K 602092-001	24 AWG WHT	602201- 806	54"	ROW 0A
2	J100-1 (602201-003)	J203-D 602092-001	24 AWG WHT	602201- 806	54"	ROW 0B
3	J100-65 (602201-003)	J203-H 602092-001	24 AWG WHT	602201- 806	54"	ROW 1A
4	J100-34 (602201-003)	J203-E 602092-001	24 AWG WHT	602201- 806	54"	ROW 1B
5	J100-2 (602201-003)	J203-J 602092-001	24 AWG WHT	602201- 806	54"	ROW 2A
6	J100-66 (602201-003)	J203-N 602092-001	24 AWG WHT	602201- 806	54"	ROW 2B
7	J100-35 (602201-003)	J203-S 602092-001	24 AWG WHT	602201- 806	54"	ROW 3A
8	J100-3 (602201-003)	J203-L 602092-001	24 AWG WHT	602201- 806	54"	ROW 3B
9	J100-67 (602201-003)	J203-P 602092-001	24 AWG WHT	602201- 806	54"	ROW 4A
10	J100-36 (602201-003)	J203-M 602092-001	24 AWG WHT	602201- 806	54"	ROW 4B
11	J100-4 (602201-003)	J203-R 602092-001	24 AWG WHT	602201- 806	54"	ROW 5A
12	J100-68 (602201-003)	J203-V 602092-001	24 AWG WHT	602201- 806	54"	ROW 5B
13	J100-37 (602201-003)	J203-X 602092-001	24 AWG WHT	602201- 806	54"	ROW 6A
14	J100-5 (602201-003)	J203-T 602092-001	24 AWG WHT	602201- 806	54"	ROW 6B
15	J100-69 (602201-003)	J203-W 602092-001	24 AWG WHT	602201- 806	54"	ROW 7A
16	J100-38 (602201-003)	J203-U 602092-001	24 AWG WHT	602201- 806	54"	ROW 7B
17	J100-6 (602201-003)	J203-A 602092-001	24 AWG WHT	602201- 806	54"	CHASSIS GND
18	J100-70 (602201-003)	J203-B 602092-001	24 AWG WHT	602201- 806	54"	CHASSIS GND
19	J100-39 (602201-003)	J203-C 602092-001	24 AWG WHT	602201- 806	54"	CHASSIS GND
20	J100-7 (602201-003)	J203-F 602092-001	24 AWG WHT	602201- 806	54"	CHASSIS GND
21	J100-71 NO CONNECT					
22	J100-40 NO CONNECT					
23	J100-8 NO CONNECT					
24	J100-72 NO CONNECT					
25	J100-41 (602201-003)	J202-DD 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 0A
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HARNESS ASSEMBLY, 1260-40, VP90			A	21793	407284	A
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DOC NO. 407284

## ENGINEERING WIRE LIST

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

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## ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
51	J100-81 (602201-003)	J202-C 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 13A
52	J100-50 (602201-003)	J202-D 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 13B
53	J100-18 (602201-003)	J202-K 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 14A
54	J100-82 (602201-003)	J202-L 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 14B
55	J100-51 (602201-003)	J202-M 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 15A
56	J100-19 (602201-003)	J202-N 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 15B
57	J100-83 (602201-003)	J202-U 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 16A
58	J100-52 (602201-003)	J202-V 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 16B
59	J100-20 (602201-003)	J202-W 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 17A
60	J100-84 (602201-003)	J202-X 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 17B
61	J100-53 (602201-003)	J202-c 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 18A
62	J100-21 (602201-003)	J202-d 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 18B
63	J100-85 (602201-003)	J202-e 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 19A
64	J100-54 (602201-003)	J202-f 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 19B
65	J100-22 (602201-003)	J202-n 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 20A
66	J100-86 (602201-003)	J202-p 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 20B
67	J100-55 (602201-003)	J202-r 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 21A
68	J100-23 (602201-003)	J202-s 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 21B
69	J100-87 (602201-003)	J202-x 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 22A
70	J100-56 (602201-003)	J202-y 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 22B
71	J100-24 (602201-003)	J202-z 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 23A
72	J100-88 (602201-003)	J202-AA 602092-001	24 AWG WHT	602201- 806	54"	COLUMN 23B
73	J100-57 NO CONNECT					
74	J100-25 NO CONNECT					
75	J100-89 NO CONNECT					
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DOCUMENT TITLE			SIZE	CODE NO.	DOCUMENT NO.	REV
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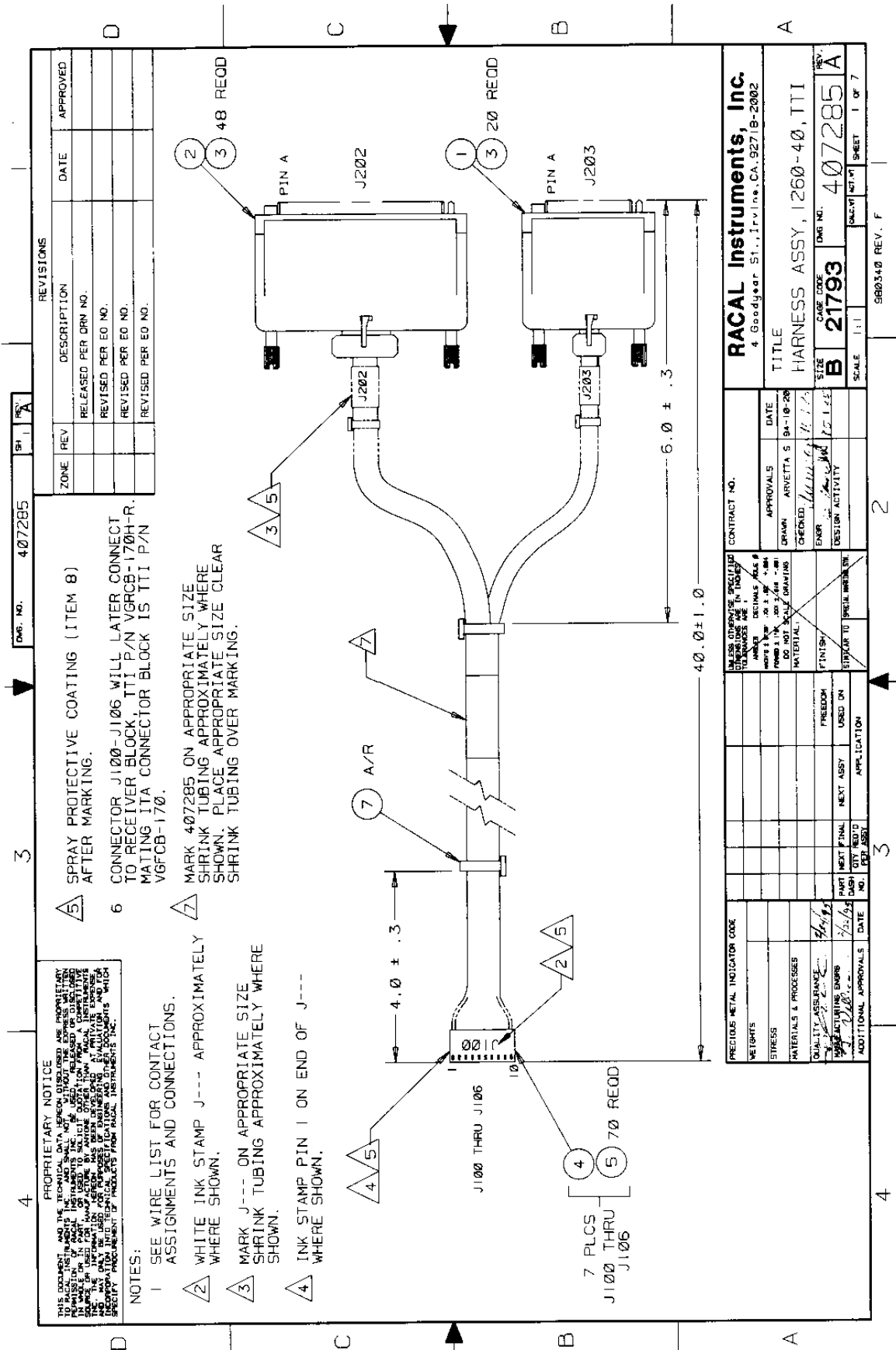
DOC. NO. 407284

## ENGINEERING WIRE LIST

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

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## ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx RW 01 (J100)	Uxx-SLOT yy (J203)	CABLE	407285		SYSTEM WIRE LIST
	BLK AAx RW 02 (J101)	Uxx-SLOT yy (J203)	CABLE	407285		
	BLK AAx RW 03 (J102)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 04 (J103)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 05 (J104)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 06 (J105)	Uxx-SLOT yy (J202)	CABLE	407285		
	BLK AAx RW 07 (J106)	Uxx-SLOT yy (J202)	CABLE	407285		
<p>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.</p>						
<p><b>RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718</b></p>						
DOCUMENT TITLE			SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, TTI			A	21793	407285	A
			DRN	SHEET 3 of 7		

DOC. NO. 407285



### ENGINEERING WIRE LIST

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

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## ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
24	J102-4 602199-001	J202-CC 602092-001	24AWG WHT	524999	40"	COLUMN 1B
25	J102-5 602199-001	J202-v 602092-001	24AWG WHT	524999	40"	COLUMN 2A
26	J102-6 602199-001	J202-w 602092-001	24AWG WHT	524999	40"	COLUMN 2B
27	J102-7 602199-001	J202-t 602092-001	24AWG WHT	524999	40"	COLUMN 3A
28	J102-8 602199-001	J202-u 602092-001	24AWG WHT	524999	40"	COLUMN 3B
29	J102-9 602199-001	J202-k 602092-001	24AWG WHT	524999	40"	COLUMN 4A
30	J102-10 602199-001	J202-m 602092-001	24AWG WHT	524999	40"	COLUMN 4B
31	J103-10 602199-001	J202-h 602092-001	24AWG WHT	524999	40"	COLUMN 5A
32	J103-9 602199-001	J202-j 602092-001	24AWG WHT	524999	40"	COLUMN 5B
33	J103-8 602199-001	J202-a 602092-001	24AWG WHT	524999	40"	COLUMN 6A
34	J103-7 602199-001	J202-b 602092-001	24AWG WHT	524999	40"	COLUMN 6B
35	J103-6 602199-001	J202-Y 602092-001	24AWG WHT	524999	40"	COLUMN 7A
36	J103-5 602199-001	J202-Z 602092-001	24AWG WHT	524999	40"	COLUMN 7B
37	J103-4 602199-001	J202-S 602092-001	24AWG WHT	524999	40"	COLUMN 8A
38	J103-3 602199-001	J202-T 602092-001	24AWG WHT	524999	40"	COLUMN 8B
39	J103-2 602199-001	J202-P 602092-001	24AWG WHT	524999	40"	COLUMN 9A
40	J103-1 602199-001	J202-R 602092-001	24AWG WHT	524999	40"	COLUMN 9B
41	J104-1 602199-001	J202-H 602092-001	24AWG WHT	524999	40"	COLUMN 10A
42	J104-2 602199-001	J202-J 602092-001	24AWG WHT	524999	40"	COLUMN 10B
43	J104-3 602199-001	J202-E 602092-001	24AWG WHT	524999	40"	COLUMN 11A
44	J104-4 602199-001	J202-F 602092-001	24AWG WHT	524999	40"	COLUMN 11B
45	J104-5 602199-001	J202-A 602092-001	24AWG WHT	524999	40"	COLUMN 12A
46	J104-6 602199-001	J202-B 602092-001	24AWG WHT	524999	40"	COLUMN 12B
<b>RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718</b>						
DOCUMENT TITLE			SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, TTI			A	21793	407285	A
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ENGINEERING WIRE LIST

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

DOC. NO. 407285

<b>RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718</b>					
DOCUMENT TITLE		SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, TTI		A	21793	407285	A
DRN			SHEET 6 of 7		

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
70	J106-10 602199-001	NO CONNECT				
<b>RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718</b>						
DOCUMENT TITLE			SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-40, TTI			A	21793	407285	A
			DRN		SHEET 7 of 7	

DOC. NO. 407285

## PRODUCT SUPPORT

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### 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 1260-40 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.