

Racal 1260-75B

Sixteen 1x4 75Ohm Multiplexer VXI Card



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RACAL INSTRUMENTS™
1260-75
100MHz
MULTIPLEXER MODULE

Publication No. 980673-025 Rev. A

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All Astronics Test Systems products are designed to exacting standards and manufactured in full compliance to our AS9100 Quality Management System processes.

This warranty does not apply to defects resulting from any modification(s) of any product or part without Astronics Test Systems express written consent, or misuse of any product or part. The warranty also does not apply to fuses, software, non-rechargeable batteries, damage from battery leakage, or problems arising from normal wear, such as mechanical relay life, or failure to follow instructions.

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

You may contact Customer Support by:

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Telephone:	+1 800 722 3262	(USA)
Fax:	+1 949 859 7139	(USA)

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FOR YOUR SAFETY

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



CAUTION
RISK OF ELECTRICAL SHOCK
DO NOT OPEN



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



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



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



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

Before operating this instrument:

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

If the instrument:

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

Do not operate until performance is checked by qualified personnel.

EC Declaration of Conformity

We

Astronics Test Systems
4 Goodyear
Irvine, CA 92618

declare under sole responsibility that the

**1260-75A 75 Ω Multiplexer Module, P/N 407354-001
and 1260-75B 75 Ω Multiplexer Module, P/N 407354-002**

conform to the following Product Specifications:

Safety: EN 61010-1

EMC: CISPR 11:1990/EN 55011 (1991): Group 1 Class A
IEC 801-2:1991/EN 50082-1 (1992): 4 kV CD, 8 kV AD
IEC 801-3:1984/EN 50082-1 (1992): 3 V/m, 27-500 MHz
IEC 801-4:1988/EN 50082-1 (1992): 1 kV

Supplementary Information:

The above specifications are met when the product is installed in an Astronics Test Systems 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.

Irvine, CA, December 8, 1997


Quality Manager

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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 1260-75A

The following information describes the control-register-to-relay-channel mapping for a 1260-75A and Relay Module. This information may be used to control a 1260-75A 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	2
1	0	0
2	0	1
3	0	3
4	0	4
10	1	0
11	0	6
12	0	7
13	1	1
14	1	2
19	0	5
20	1	6
21	1	5
22	1	6
23	1	7
24	2	0
29	1	3
30	2	4
31	2	2
32	2	3
33	2	5
34	2	6
39	2	1
40	3	2
41	3	0
42	3	1
43	3	3
44	3	4
49	2	7
50	5	5
51	5	6
52	5	2
53	5	4
54	5	3
59	3	5
60	4	7

Channel	Control Register	Control Bit
61	4	5
62	4	4
63	4	6
64	5	0
69	5	7
70	4	1
71	3	7
72	3	6
73	4	0
74	4	2
79	5	1
80	6	3
81	6	1
82	6	0
83	6	2
84	6	4
89	4	3
90	7	1
91	6	7
92	6	6
93	7	0
94	7	2
99	6	5
100	7	6
101	7	4
102	7	5
103	7	7
104	8	0
109	7	3
110	8	4
111	8	2
112	8	3
113	8	5
114	8	6
119	8	1
120	9	2
121	9	0
122	9	1
123	9	3
124	9	4
129	8	7
130	10	0
131	9	6
132	9	7
133	10	1
134	10	2
139	9	5
140	10	6
141	10	4
142	10	5
143	10	7
144	11	0
149	10	3
150	11	4
151	11	2
152	11	3
153	11	5
154	11	6
159	11	1

Control Information for the 1260-75B

The following information describes the control-register-to-relay-channel mapping for a 1260-75B Relay Module. This information may be used to control a 1260-75B 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	2
1	0	0
2	0	1
3	0	3
4	0	4
10	1	0
11	0	6
12	0	7
13	1	1
14	1	2
19	0	5
20	1	6
21	1	5
22	1	6
23	1	7
24	2	0
29	1	3
30	2	4
31	2	2
32	2	3
33	2	5
34	2	6
39	2	1
40	3	2
41	3	0
42	3	1
43	3	3
44	3	4
49	2	7
50	5	5
51	5	6
52	5	2
53	5	4
54	5	3
59	3	5
60	4	7
61	4	5

Channel	Control Register	Control Bit
62	4	4
63	4	6
64	5	0
69	5	7
70	4	1
71	3	7
72	3	6
73	4	0
74	4	2
79	5	1

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DOCUMENT CHANGE HISTORY

Revision	Date	Description of Change
A	02/09/10	Revised per EO 30036 Revised format to current standards. Company name revised throughout manual. Manual now revision letter controlled. Added Document Change History Page iii. Back of cover sheet. Revised Warranty Statement, Return of Product, Proprietary Notice and Disclaimer to current standards. (Chap2-1) Unpacking and inspection. Revise to current standards. Removed Reshipment Instructions in (Chap. 2-1) and removed (Chap 5). Information. Now appears in first 2 sheets behind cover sheet. Updated table of contents to reflect changes made. . Added company name to footer opposite of page no's i thru iv.

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Chapter 1

OVERVIEW

1260-75 100MHz Multiplexer Module

The 1260-75A/B provides eight or sixteen, respectively, 1x4 75 Ω multiplexers (refer to the Functional Diagram **Figure 1-2**). Relays CH19, 29,...,159 provide for the connections between the adjacent 1x4 groups under software control. Thus, the 1260-75A/B modules can be configured as multiplexers up to 1x39 or 1x79 in size. The 100 MHz bandwidth is guaranteed for all possible multiplexer sizes as long as only groups required for a specific connector are connected.

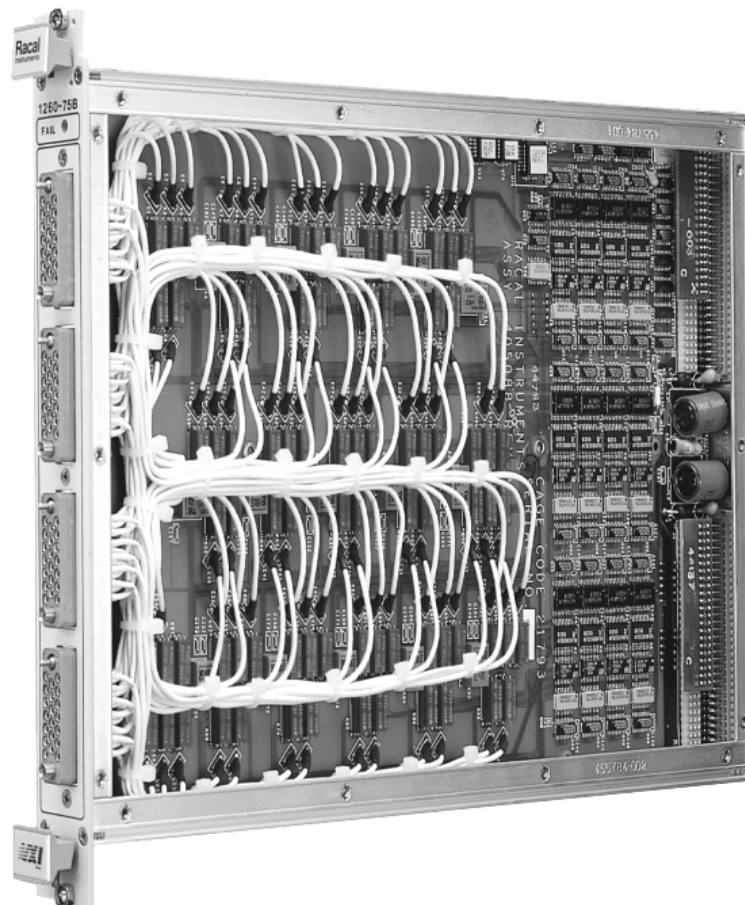


Figure 1-1, 1260-75A/B

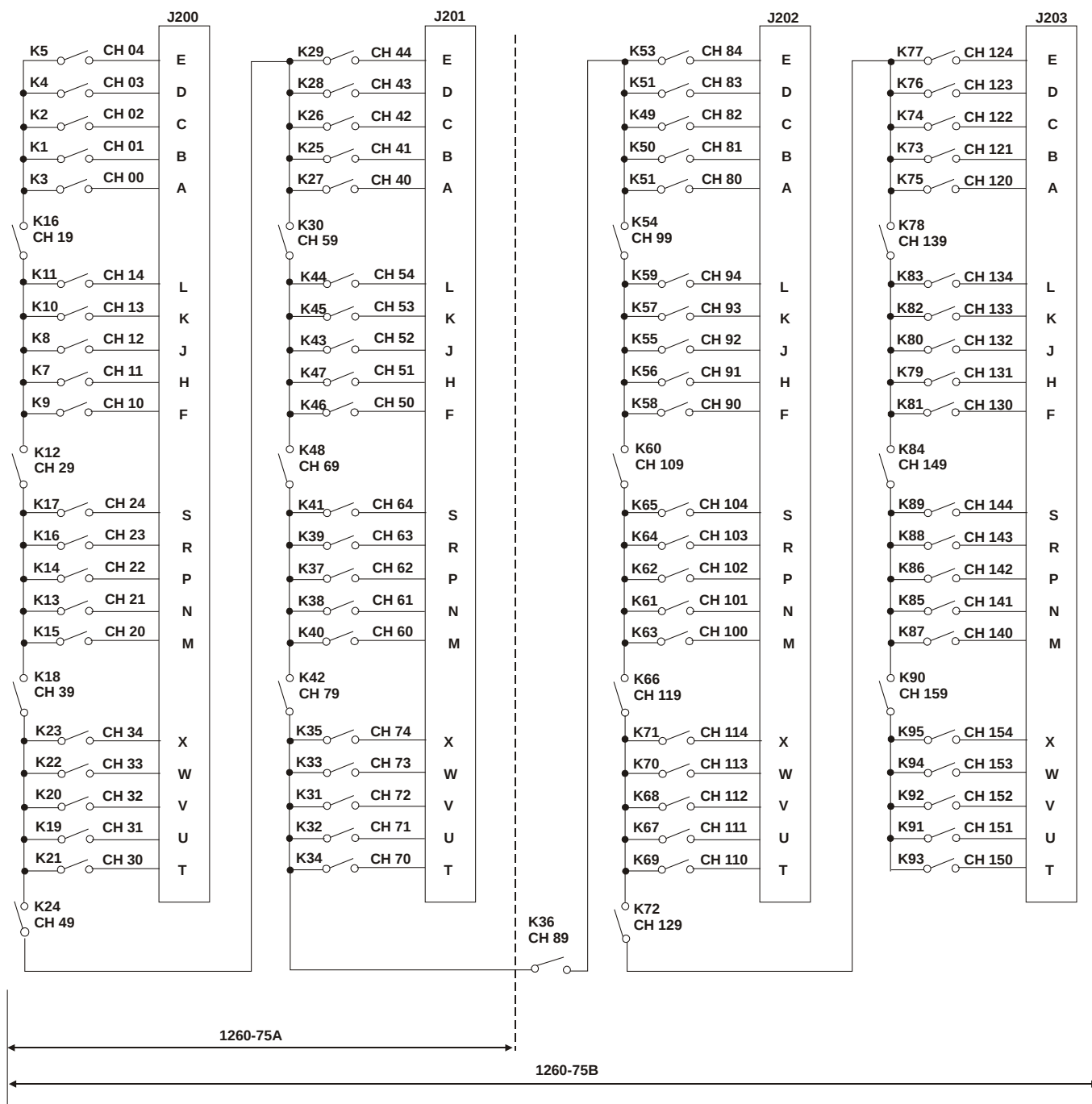


Figure 1-2, 1260-75A/B Functional Diagram

Specifications

Minimum Firmware Revision Option 01	23.1
User Connector	Housing: Burndy MSD20PM - 118 Contact: Burndy RMDX60- 36D28 for RG316 Coaxial Cable
Maximum Switchable Voltage (Signal to Ground)	200VDC, AC Peak Resistive Load
Maximum Switchable Current (Per Channel)	0.5ADC, AC Peak Resistive Load
Maximum Carry Current (Per Channel)	1ADC, AC Peak Resistive Load
Life Expectancy Typical at Signal Level <1.0V, .010A	250 x 10 ⁶ operations

DC Performance

Path Resistance	<2.0Ω
-----------------	-------

AC Performance

Impedance	75Ω
Bandwidth (-3 dB)	100 MHz (longest path) 200 MHz (1 x 4 Multiplexer)
Insertion Loss	<1.5dB at 100MHz (1 x 4 Multiplexer)
Crosstalk Across Groups 75Ω Termination	10MHz: <-50dB 100MHz: <-40dB
Isolation Between Channels 75Ω Termination	10MHz: >40dB 100MHz: >35dB
VSWR (75Ω Termination) (1 x 4 Multiplexer)	1.5:1 at 100MHz
Rise Time (Typical 1 x 4 Multiplexer)	<2.5nS
Fall Time (Typical 1 x 4 Multiplexer)	<2.5nS

Propagation Delay Time (Typical 1 x 4 Multiplexer)	<3nS
Switching Time	39±5ms
Cooling Requirements	
Airflow	4 liters/Sec
Backpressure	0.5mmH ₂ O
Power Requirements (I _{pm})	
+5V	0.4A without Option 01 2.5A with Option 01
+12V	0.5A
Weight	1.174Kg (2.59 lbs) without Option 01 1.315Kg (2.90 lbs) with Option 01

Coaxial Cable, Optional

P/N	Length, Feet
407363-001	2
407363-003	6
407363-006	12

Coaxial cables have been tested to 1GHz, and are available as an option. Each cable contains a coaxial pin at each end. The cables are available in 2, 6, and 12 feet, and can be cut by customers to any length. (Example: The 6-foot cable can be cut to two 3-foot, or one 2-foot and one 4-foot cable). Coaxial pins (P/N 602220-900 suitable for RG3 16 coaxial cable may be purchased separately. Coaxial pins (P/N 602220-901) suitable for coaxial cable smaller than RG3 16 may also be purchased separately (consult factory for details). The 1260-75A requires 40, and the 1260-75B requires 80. To crimp coaxial pins, use crimp tool Hytool M10S-1 from Bumdy.

Ordering Information

Model Number	Description	Part Number
1260-75A	6 1x4 75 Ω Multiplexer 40 Channels	407354-001
1260-75B	16 1x4 75 Ω Multiplexer 80 Channels	407354-002

Safety

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

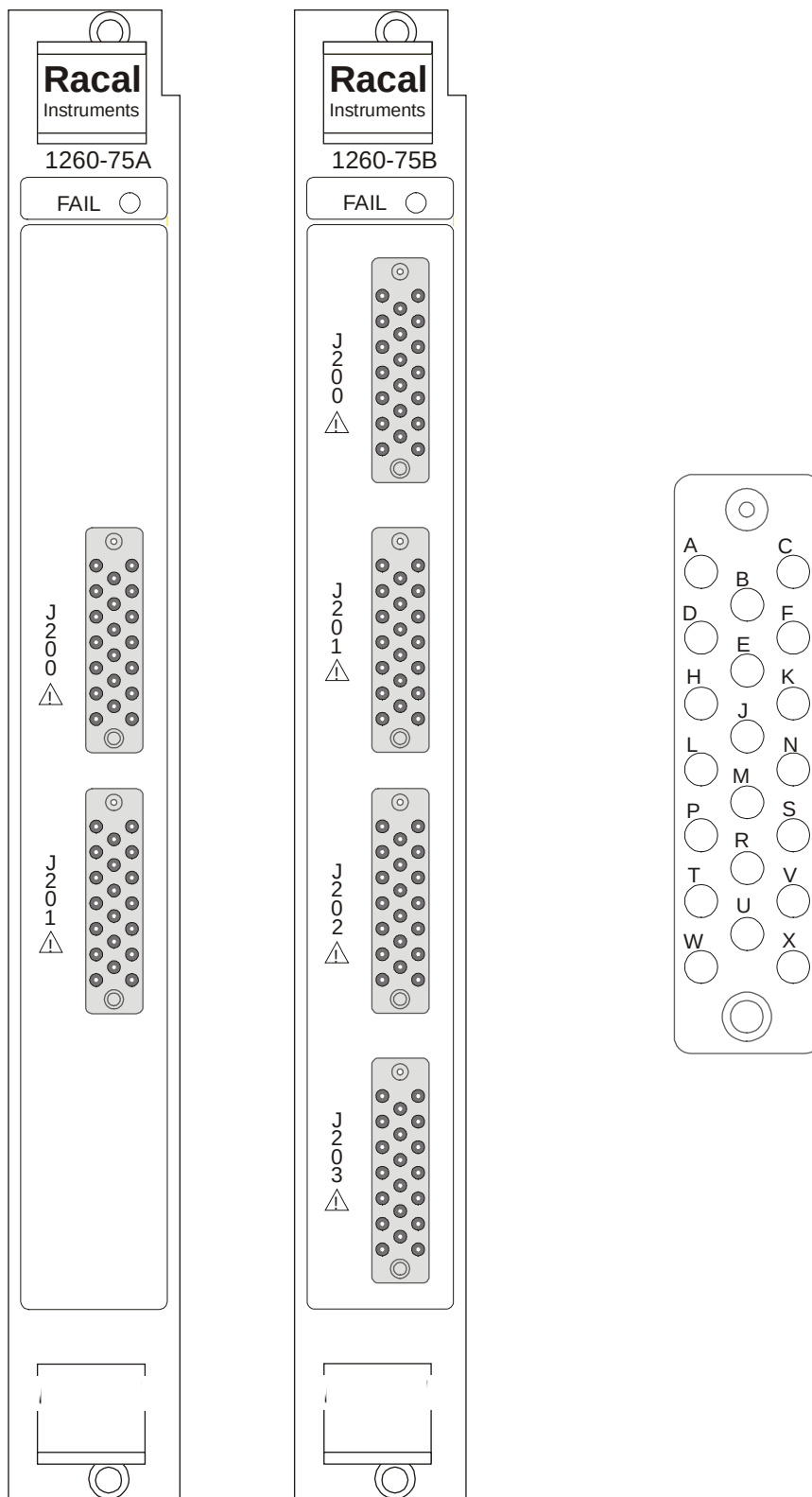


Figure 1-3, 1260-75A/B J200-J203 Connector Pin Configuration

Chapter 2

INSTALLATION INSTRUCTIONS

Unpacking and Inspection

1. Remove the 1260-75 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 1260-75 module option and the 1260-75 Users Manual. Notify Customer Support if the module appears damaged in any way. Do not attempt to install a damaged module into a VXI chassis.
3. The 1260-75 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.

Option 01 Installation

Installation of the Option 01 into the 1260-75A/B is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

Module Installation

Installation of the 1260-75A/B Switching Module into a VXI mainframe, including the setting of DIP switches, is described in the Installation section of the 1260 Series VXI Switching Cards Manual. The ID byte DIP switch, SW1-5 should be set to OFF for the 1260-75A module and to ON for the 1260-75B module.

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Chapter 3

MODULE SPECIFIC SYNTAX

1260-75 Module

The 1260-75A/B RF Multiplexer supports the OPEN, CLOSE, PSETUP, RESET and PDATAOUT commands.

Syntax

The module specific syntax for the 1260-75A/B RF Multiplexer is as follows:

`<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.

The range of values for `<channel>` is:

1260-75A: 00-04, 10-14, 19, 20-24, 29, 30-34, 39, 40-44, 49, 50-54, 59, 60-64, 69, 70-74, 79

1260-75B: 00-04, 10-14, 19, 20-24, 29, 30-34, 39, 40-44, 49, 50-54, 59, 60-64, 69, 70-74, 79, 80-84, 89, 90-94, 99, 100-104, 109, 110-114, 119, 120-124, 129, 130-134, 139, 140-144, 149, 150-154, 159

CLOSE and OPEN Command

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

Example:

For switch card address 5, channels 00, 19, 12

CLOSE 5.00; 5.19; 5.12

OPEN 5.00; 5.19; 5.12

OR

CLOSE 5.00, 19, 12

OPEN 5.00, 19, 12

The module address does not have to be specified each time if all channels are on the same module.

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 1260-75A/B multiplexer is as follows:

1260-75A:

<module address>.1260-75A, 8 (1x4) 75 OHM 100 MHz MULTIPLEXER MODULE
<module address>.BBM
<module address>.END

1260-75B:

<module address>.1260-75B, 16 (1X4) 75 OHM 100 MHz 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. 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 state of the CLOSED relays on the switching module. The syntax used is:

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

The responses to the PDATAOUT command is as follows:

1260-75A:

```
<module address>.1260-75A 8 (1x4) 75 OHM 100 MHz MULTIPLEXER MODULE  
<module address>.<channel>[,<channel>] [,<channel>]  
<module address>.END
```

1260-75B:

```
<module address>. 1260-75B 16 (1x4) 75 OHM 100 MHz 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.

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Chapter 4

OPTIONAL HARNESS ASSEMBLIES

General

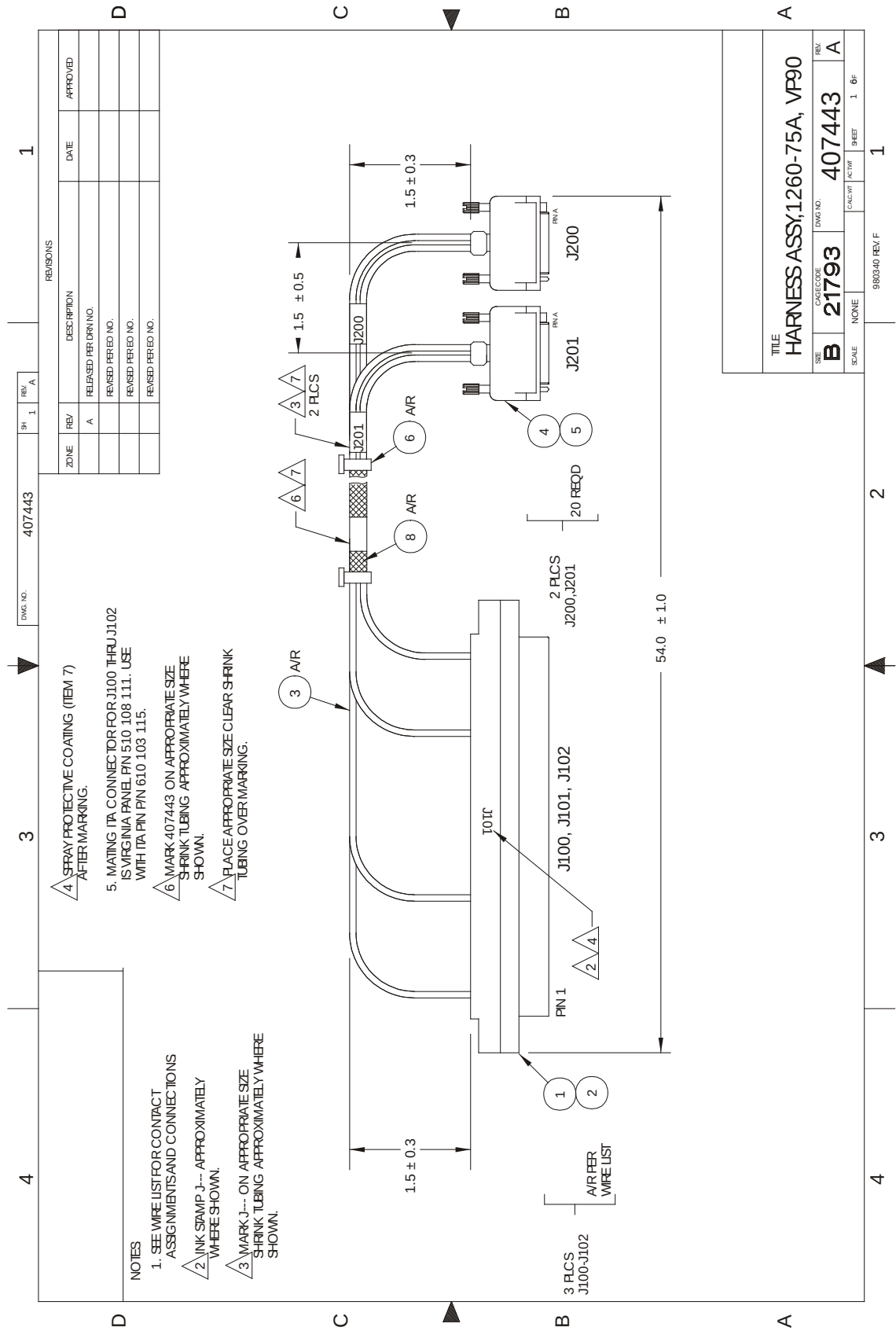
The following harness assemblies are used to connect 1260-75A/B to Freedom Series Test Receiver Interfaces.

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

407443	1260-75A Virginia Panel, Inc. Series VP90 Interface Harness
407445	1260-75B Virginia Panel, Inc. Series VP90 Interface Harness
407444	1260-75A TTI Testron, Inc. Interface Harness (TTI Receiver must be above chassis)
407444-002	1260-75B TTI Testron, Inc. Interface Harness (TTI Receiver must be above chassis)

For more information on the complete line of Test Receiver Interface solutions, contact our Customer Support Department.

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ENGINEERING PARTS LIST

[illegible]

DOC. NO. 407443

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J200)	CABLE	407443		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (J200,J201)	CABLE	407443		
	BLK AA (J102)	Uxx-SLOT yy (J201)	CABLE	407443		
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.						

DOC. NO.	407443
----------	--------

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 602201-902	J200-A 602220-900	COAX	500269	54"	CHANNEL 00
2	J100-2 602201-902	J200-B 602220-900	COAX	500269	54"	CHANNEL 01
3	J100-3 602201-902	J200-C 602220-900	COAX	500269	54"	CHANNEL 02
4	J100-4 602201-902	J200-D 602220-900	COAX	500269	54"	CHANNEL 03
5	J100-5 602201-902	J200-E 602220-900	COAX	500269	54"	CHANNEL 04
6	J100-6 602201-902	J200-F 602220-900	COAX	500269	54"	CHANNEL 10
7	J100-7 602201-902	J200-H 602220-900	COAX	500269	54"	CHANNEL 11
8	J100-8 602201-902	J200-J 602220-900	COAX	500269	54"	CHANNEL 12
9	J100-9 602201-902	J200-K 602220-900	COAX	500269	54"	CHANNEL 13
10	J100-10 602201-902	J200-L 602220-900	COAX	500269	54"	CHANNEL 14
11	J100-11 602201-902	J200-M 602220-900	COAX	500269	54"	CHANNEL 20
12	J100-12 602201-902	J200-N 602220-900	COAX	500269	54"	CHANNEL 21
13	J100-13 602201-902	J200-P 602220-900	COAX	500269	54"	CHANNEL 22
14	J100-14 602201-902	J200-R 602220-900	COAX	500269	54"	CHANNEL 23
15	J100-15 602201-902	J200-S 602220-900	COAX	500269	54"	CHANNEL 24
16	J100-16 NO CONNECT					
17	J100-17 NO CONNECT					
18	J100-18 NO CONNECT					
19	J100-19 NO CONNECT					
20	J101-1 602201-902	J200-T 602220-900	COAX	500269	54"	CHANNEL 30
21	J101-2 602201-902	J200-U 602220-900	COAX	500269	54"	CHANNEL 31
22	J101-3 602201-902	J200-V 602220-900	COAX	500269	54"	CHANNEL 32
23	J101-4 602201-902	J200-W 602220-900	COAX	500269	54"	CHANNEL 33
24	J101-5 602201-902	J200-X 602220-900	COAX	500269	54"	CHANNEL 34
25	J101-6 602201-902	J201-A 602220-900	COAX	500269	54"	CHANNEL 40

DOC. NO. 1407443

ENGINEERING WIRE LIST

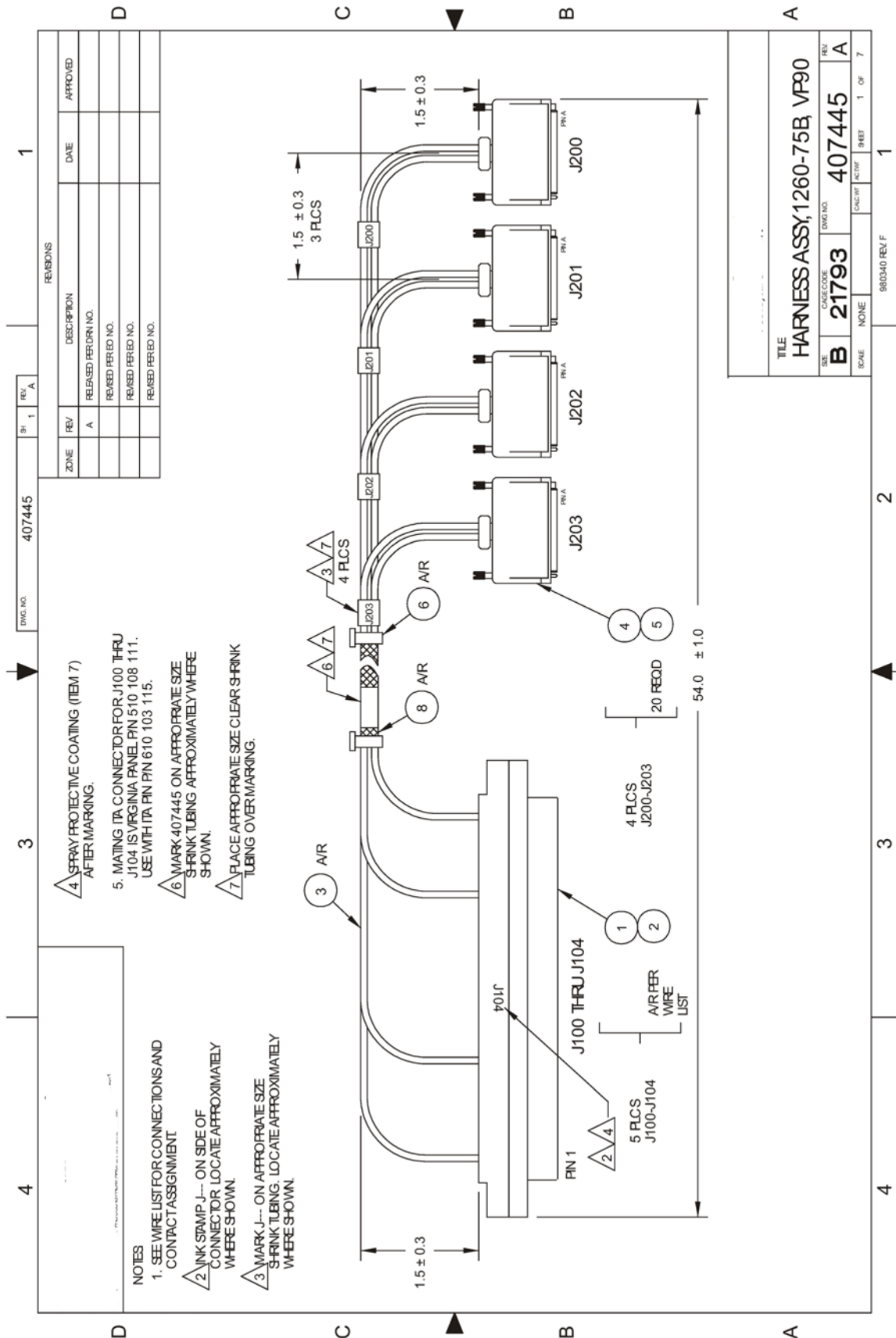
WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J101-7 602201-902	J201-B 602220-900	COAX	500269	54"	CHANNEL 41
27	J101-8 602201-902	J201-C 602220-900	COAX	500269	54"	CHANNEL 42
28	J101-9 602201-902	J201-D 602220-900	COAX	500269	54"	CHANNEL 43
29	J101-10 602201-902	J201-E 602220-900	COAX	500269	54"	CHANNEL 44
30	J101-11 602201-902	J201-F 602220-900	COAX	500269	54"	CHANNEL 50
31	J101-12 602201-902	J201-H 602220-900	COAX	500269	54"	CHANNEL 51
32	J101-13 602201-902	J201-J 602220-900	COAX	500269	54"	CHANNEL 52
33	J101-14 602201-902	J201-K 602220-900	COAX	500269	54"	CHANNEL 53
34	J101-15 602201-902	J201-L 602220-900	COAX	500269	54"	CHANNEL 54
35	J101-16 NO CONNECT					
36	J101-17 NO CONNECT					
37	J101-18 NO CONNECT					
38	J101-19 NO CONNECT					
39	J102-1 602201-902	J201-M 602220-900	COAX	500269	54"	CHANNEL 60
40	J102-2 602201-902	J201-N 602220-900	COAX	500269	54"	CHANNEL 61
41	J102-3 602201-902	J201-P 602220-900	COAX	500269	54"	CHANNEL 62
42	J102-4 602201-902	J201-R 602220-900	COAX	500269	54"	CHANNEL 63
43	J102-5 602201-902	J201-S 602220-900	COAX	500269	54"	CHANNEL 64
44	J102-6 602201-902	J201-T 602220-900	COAX	500269	54"	CHANNEL 70
45	J102-7 602201-902	J201-U 602220-900	COAX	500269	54"	CHANNEL 71
46	J102-8 602201-902	J201-V 602220-900	COAX	500269	54"	CHANNEL 72
47	J102-9 602201-902	J201-W 602220-900	COAX	500269	54"	CHANNEL 73
48	J102-10 602201-902	J201-X 602220-900	COAX	500269	54"	CHANNEL 74
49	J102-11 NO CONNECT					
50	J102-12 NO CONNECT					

DOC. NO. 1407443

ENGINEERING WIRE LIST

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

DOC. NO. 407443



ENGINEERING PARTS LIST

[illegible]

DOC. NO.	407445
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (J200)	CABLE	407445		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (J200,J201)	CABLE	407445		
	BLK AA (J102)	Uxx-SLOT yy (J201,J202)	CABLE	407445		
	BLK AA (J103)	Yxx-SLOT yy (J202,J203)	CABLE	407445		
	BLK AA (J104)	Uxx-SLOT yy (J203)	CABLE	407445		
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.						

DOC. NO. 407445

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 602201-902	J200-A 602220-900	COAX	500269	54"	CHANNEL 00
2	J100-2 602201-902	J200-B 602220-900	COAX	500269	54"	CHANNEL 01
3	J100-3 602201-902	J200-C 602220-900	COAX	500269	54"	CHANNEL 02
4	J100-4 602201-902	J200-D 602220-900	COAX	500269	54"	CHANNEL 03
5	J100-5 602201-902	J200-E 602220-900	COAX	500269	54"	CHANNEL 04
6	J100-6 602201-902	J200-F 602220-900	COAX	500269	54"	CHANNEL 10
7	J100-7 602201-902	J200-H 602220-900	COAX	500269	54"	CHANNEL 11
8	J100-8 602201-902	J200-J 602220-900	COAX	500269	54"	CHANNEL 12
9	J100-9 602201-902	J200-K 602220-900	COAX	500269	54"	CHANNEL 13
10	J100-10 602201-902	J200-L 602220-900	COAX	500269	54"	CHANNEL 14
11	J100-11 602201-902	J200-M 602220-900	COAX	500269	54"	CHANNEL 20
12	J100-12 602201-902	J200-N 602220-900	COAX	500269	54"	CHANNEL 21
13	J100-13 602201-902	J200-P 602220-900	COAX	500269	54"	CHANNEL 22
14	J100-14 602201-902	J200-R 602220-900	COAX	500269	54"	CHANNEL 23
15	J100-15 602201-902	J200-S 602220-900	COAX	500269	54"	CHANNEL 24
16	J100-16 NO CONNECT					
17	J100-17 NO CONNECT					
18	J100-18 NO CONNECT					
19	J100-19 NO CONNECT					
20	J101-1 602201-902	J200-T 602220-900	COAX	500269	54"	CHANNEL 30
21	J101-2 602201-902	J200-U 602220-900	COAX	500269	54"	CHANNEL 31
22	J101-3 602201-902	J200-V 602220-900	COAX	500269	54"	CHANNEL 32
23	J101-4 602201-902	J200-W 602220-900	COAX	500269	54"	CHANNEL 33
24	J101-5 602201-902	J200-X 602220-900	COAX	500269	54"	CHANNEL 34

DOC NO. 1407445

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
25	J101-6 602201-902	J201-A 602220-900	COAX	500269	54"	CHANNEL 40
26	J101-7 602201-902	J201-B 602220-900	COAX	500269	54"	CHANNEL 41
27	J101-8 602201-902	J201-C 602220-900	COAX	500269	54"	CHANNEL 42
28	J101-9 602201-902	J201-D 602220-900	COAX	500269	54"	CHANNEL 43
29	J101-10 602201-902	J201-E 602220-900	COAX	500269	54"	CHANNEL 44
30	J101-11 602201-902	J201-F 602220-900	COAX	500269	54"	CHANNEL 50
31	J101-12 602201-902	J201-H 602220-900	COAX	500269	54"	CHANNEL 51
32	J101-13 602201-902	J201-J 602220-900	COAX	500269	54"	CHANNEL 52
33	J101-14 602201-902	J201-K 602220-900	COAX	500269	54"	CHANNEL 53
34	J101-15 602201-902	J201-L 602220-900	COAX	500269	54"	CHANNEL 54
35	J101-16 NO CONNECT					
36	J101-17 NO CONNECT					
37	J101-18 NO CONNECT					
38	J101-19 NO CONNECT					
39	J102-1 602201-902	J201-M 602220-900	COAX	500269	54"	CHANNEL 60
40	J102-2 602201-902	J201-N 602220-900	COAX	500269	54"	CHANNEL 61
41	J102-3 602201-902	J201-P 602220-900	COAX	500269	54"	CHANNEL 62
42	J102-4 602201-902	J201-R 602220-900	COAX	500269	54"	CHANNEL 63
43	J102-5 602201-902	J201-S 602220-900	COAX	500269	54"	CHANNEL 64
44	J102-6 602201-902	J201-T 602220-900	COAX	500269	54"	CHANNEL 70
45	J102-7 602201-902	J201-U 602220-900	COAX	500269	54"	CHANNEL 71
46	J102-8 602201-902	J201-V 602220-900	COAX	500269	54"	CHANNEL 72
47	J102-9 602201-902	J201-W 602220-900	COAX	500269	54"	CHANNEL 73
48	J102-10 602201-902	J201-X 602220-900	COAX	500269	54"	CHANNEL 74

DOC. NO. 407445

ENGINEERING WIRE LIST

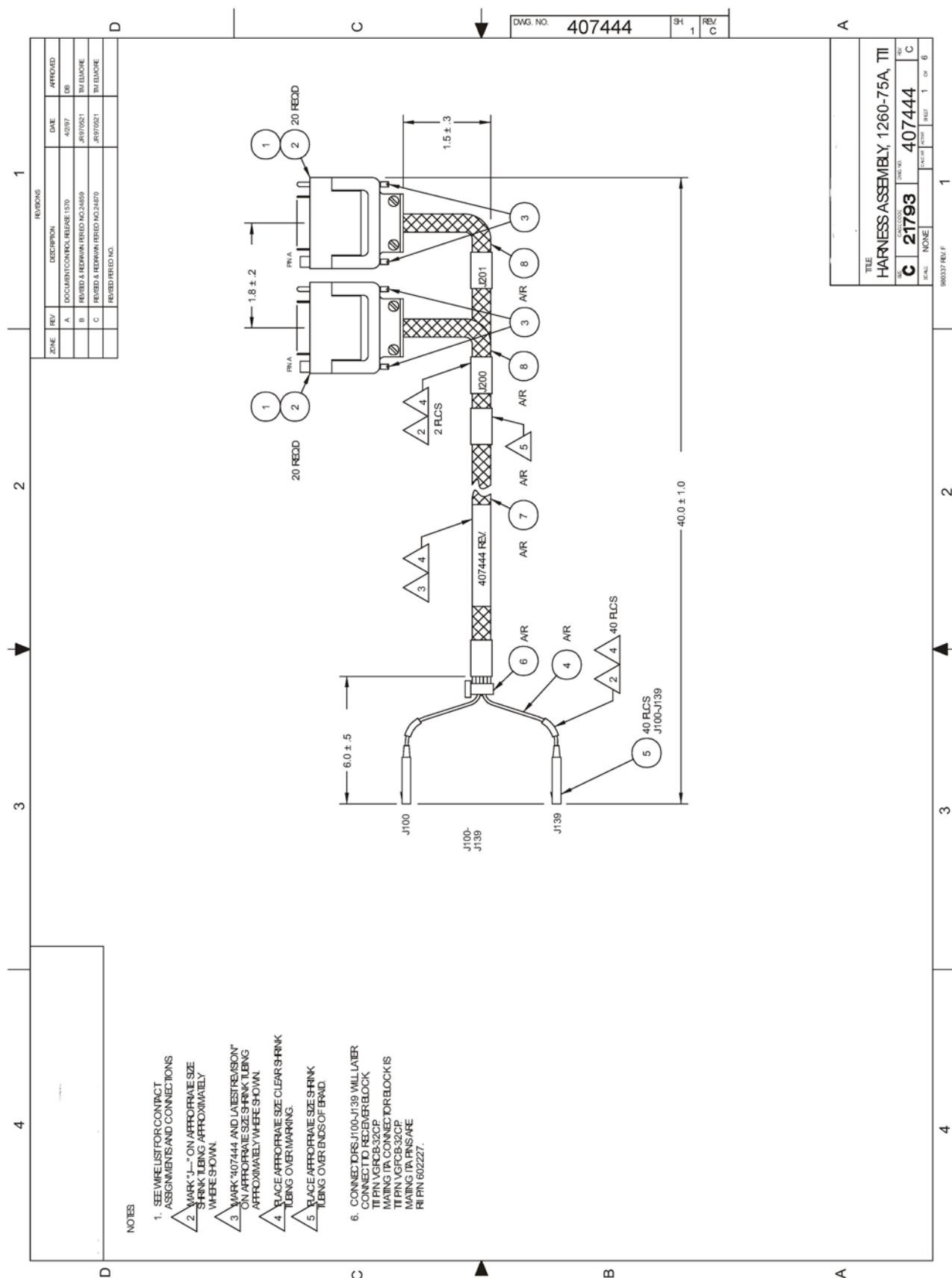
WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
49	J102-11 602201-902	J202-A 602220-900	COAX	500269	54"	CHANNEL 80
50	J102-12 602201-902	J202-B 602220-900	COAX	500269	54"	CHANNEL 81
51	J102-13 602201-902	J202-C 602220-900	COAX	500269	54"	CHANNEL 82
52	J102-14 602201-902	J202-D 602220-900	COAX	500269	54"	CHANNEL 83
53	J102-15 602201-902	J202-E 602220-900	COAX	500269	54"	CHANNEL 84
54	J102-16 NO CONNECT					
55	J102-17 NO CONNECT					
56	J102-18 NO CONNECT					
57	J102-19 NO CONNECT					
58	J103-1 602201-902	J202-F 602220-900	COAX	500269	54"	CHANNEL 90
59	J103-2 602201-902	J202-H 602220-900	COAX	500269	54"	CHANNEL 91
60	J103-3 602201-902	J202-J 602220-900	COAX	500269	54"	CHANNEL 92
61	J103-4 602201-902	J202-K 602220-900	COAX	500269	54"	CHANNEL 93
62	J103-5 602201-902	J202-L 602220-900	COAX	500269	54"	CHANNEL 94
63	J103-6 602201-902	J202-M 602220-900	COAX	500269	54"	CHANNEL 100
64	J103-7 602201-902	J202-N 602220-900	COAX	500269	54"	CHANNEL 101
65	J103-8 602201-902	J202-P 602220-900	COAX	500269	54"	CHANNEL 102
66	J103-9 602201-902	J202-R 602220-900	COAX	500269	54"	CHANNEL 103
67	J103-10 602201-902	J202-S 602220-900	COAX	500269	54"	CHANNEL 104
68	J103-11 602201-902	J202-T 602220-900	COAX	500269	54"	CHANNEL 110
69	J103-12 602201-902	J202-U 602220-900	COAX	500269	54"	CHANNEL 111
70	J103-13 602201-902	J202-V 602220-900	COAX	500269	54"	CHANNEL 112
71	J103-14 602201-902	J202-W 602220-900	COAX	500269	54"	CHANNEL 113

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
72	J103-15 602201-902	J202-X 602220-900	COAX	500269	54"	CHANNEL 114
73	J103-16 NO CONNECT					
74	J103-17 602201-902	J203-T 602220-900	COAX	500269	54"	CHANNEL 150
75	J103-18 602201-902	J203-U 602220-900	COAX	500269	54"	CHANNEL 151
76	J103-19 602201-902	J203-V 602220-900	COAX	500269	54"	CHANNEL 152
77	J104-1 602201-902	J203-A 602220-900	COAX	500269	54"	CHANNEL 120
78	J104-2 602201-902	J203-B 602220-900	COAX	500269	54"	CHANNEL 121
79	J104-3 602201-902	J203-C 602220-900	COAX	500269	54"	CHANNEL 122
80	J104-4 602201-902	J203-D 602220-900	COAX	500269	54"	CHANNEL 123
81	J104-5 602201-902	J203-E 602220-900	COAX	500269	54"	CHANNEL 124
82	J104-6 602201-902	J203-F 602220-900	COAX	500269	54"	CHANNEL 130
83	J104-7 602201-902	J203-H 602220-900	COAX	500269	54"	CHANNEL 131
84	J104-8 602201-902	J203-J 602220-900	COAX	500269	54"	CHANNEL 132
85	J104-9 602201-902	J203-K 602220-900	COAX	500269	54"	CHANNEL 133
86	J104-10 602201-902	J203-L 602220-900	COAX	500269	54"	CHANNEL 134
87	J104-11 602201-902	J203-M 602220-900	COAX	500269	54"	CHANNEL 140
88	J104-12 602201-902	J203-N 602220-900	COAX	500269	54"	CHANNEL 141
89	J104-13 602201-902	J203-P 602220-900	COAX	500269	54"	CHANNEL 142
90	J104-14 602201-902	J203-R 602220-900	COAX	500269	54"	CHANNEL 143
91	J104-15 602201-902	J203-S 602220-900	COAX	500269	54"	CHANNEL 144
92	J104-16 NO CONNECT					
93	J104-17 NO CONNECT					
94	J104-18 602201-902	J203-W 602220-900	COAX	500269	54"	CHANNEL 153
95	J104-19 602201-902	J203-X 602220-900	COAX	500269	54"	CHANNEL 154

DOC. NO. 407445



ENGINEERING PARTS LIST

[illegible]

DOC. NO. 407444

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 01 (J100)	Uxx-SLOT yy (J200)	CABLE	407444		SYSTEM WIRE LIST
	BLK AAx PN 02 (J101)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 03 (J102)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 04 (J103)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 05 (J104)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 06 (J105)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 07 (J106)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 08 (J107)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 09 (J108)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 10 (J109)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 11 (J100)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 12 (J111)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 13 (J112)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 14 (J113)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 15 (J114)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 16 (J115)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 17 (J116)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 18 (J117)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 19 (J118)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 20 (J119)	Uxx-SLOT yy (J200)	CABLE	407444		
	BLK AAx PN 21 (J120)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 22 (J121)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 23 (J122)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 24 (J123)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 25 (J124)	Uxx-SLOT yy (J201)	CABLE	407444		

DOC. NO. 407444

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 26 (J125)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 27 (J126)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 28 (J127)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 29 (J128)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 30 (J129)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 31 (J130)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 32 (J131)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 33 (J132)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 34 (J133)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 35 (J134)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 36 (J135)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 37 (J136)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 38 (J137)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 39 (J138)	Uxx-SLOT yy (J201)	CABLE	407444		
	BLK AAx PN 40 (J139)	Uxx-SLOT yy (J201)	CABLE	407444		
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.						

DOC. NO. 407444

ENGINEERING WIRE LIST

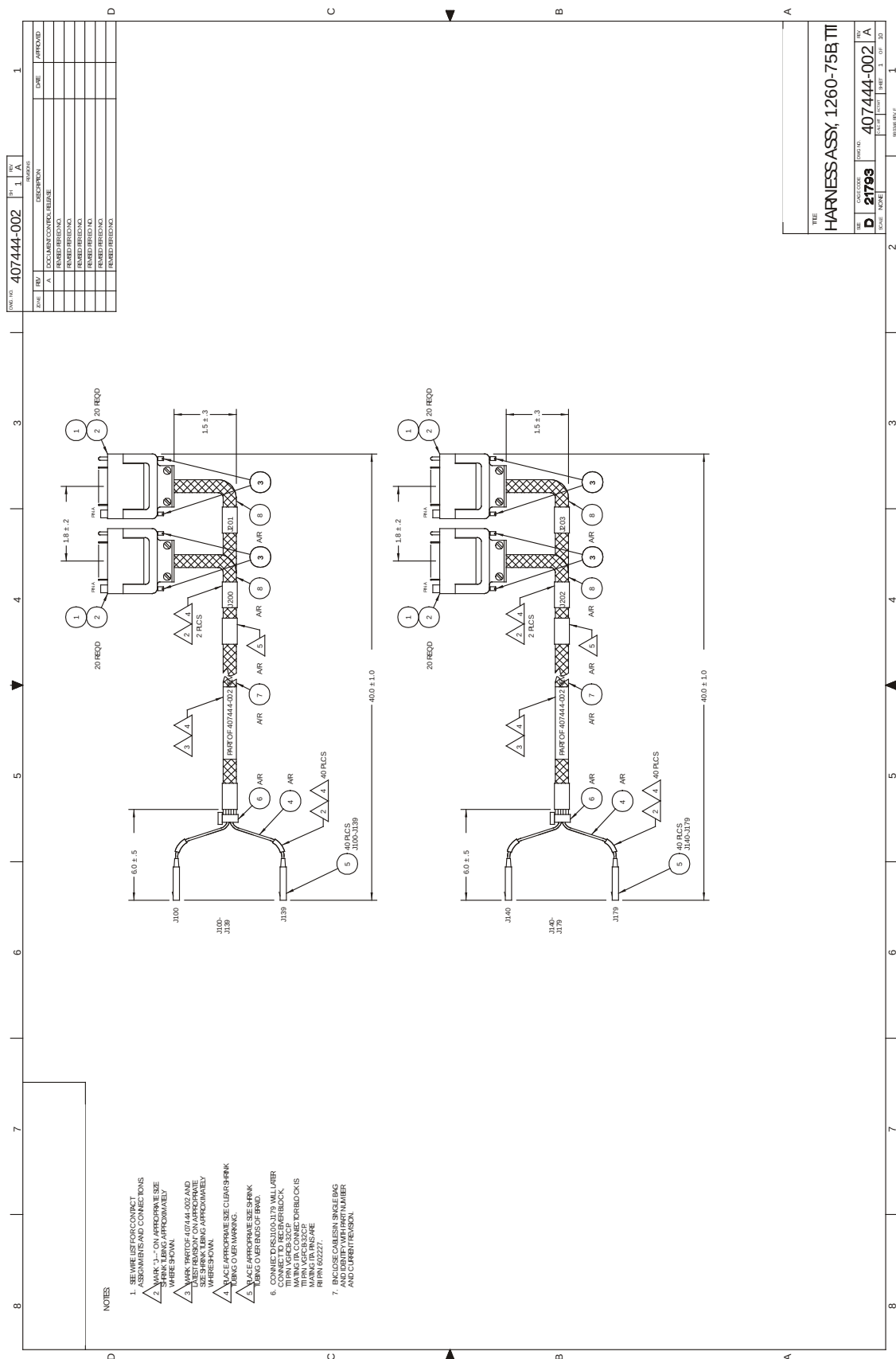
WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100 602196-900	J200-A 602220-900	COAX	500269	40"	CHANNEL 00
2	J101 602196-900	J200-B 602220-900	COAX	500269	40"	CHANNEL 01
3	J102 602196-900	J200-C 602220-900	COAX	500269	40"	CHANNEL 02
4	J103 602196-900	J200-D 602220-900	COAX	500269	40"	CHANNEL 03
5	J104 602196-900	J200-E 602220-900	COAX	500269	40"	CHANNEL 04
6	J105 602196-900	J200-F 602220-900	COAX	500269	40"	CHANNEL 10
7	J106 602196-900	J200-H 602220-900	COAX	500269	40"	CHANNEL 11
8	J107 602196-900	J200-J 602220-900	COAX	500269	40"	CHANNEL 12
9	J108 602196-900	J200-K 602220-900	COAX	500269	40"	CHANNEL 13
10	J109 602196-900	J200-L 602220-900	COAX	500269	40"	CHANNEL 14
11	J110 602196-900	J200-M 602220-900	COAX	500269	40"	CHANNEL 20
12	J111 602196-900	J200-N 602220-900	COAX	500269	40"	CHANNEL 21
13	J112 602196-900	J200-P 602220-900	COAX	500269	40"	CHANNEL 22
14	J113 602196-900	J200-R 602220-900	COAX	500269	40"	CHANNEL 23
15	J114 602196-900	J200-S 602220-900	COAX	500269	40"	CHANNEL 24
16	J115 602196-900	J200-T 602220-900	COAX	500269	40"	CHANNEL 30
17	J116 602196-900	J200-U 602220-900	COAX	500269	40"	CHANNEL 31
18	J117 602196-900	J200-V 602220-900	COAX	500269	40"	CHANNEL 32
19	J118 602196-900	J200-W 602220-900	COAX	500269	40"	CHANNEL 33
20	J119 602196-900	J200-X 602220-900	COAX	500269	40"	CHANNEL 34
21	J120 602196-900	J201-A 602220-900	COAX	500269	40"	CHANNEL 40
22	J121 602196-900	J201-B 602220-900	COAX	500269	40"	CHANNEL 41
23	J122 602196-900	J201-C 602220-900	COAX	500269	40"	CHANNEL 42
24	J123 602196-900	J201-D 602220-900	COAX	500269	40"	CHANNEL 43
25	J124 602196-900	J201-E 602220-900	COAX	500269	40"	CHANNEL 44

DOC NO. 407444

ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J125 602196-900	J201-F 602220-900	COAX	500269	40"	CHANNEL 50
27	J126 602196-900	J201-H 602220-900	COAX	500269	40"	CHANNEL 51
28	J127 602196-900	J201-J 602220-900	COAX	500269	40"	CHANNEL 52
29	J128 602196-900	J201-K 602220-900	COAX	500269	40"	CHANNEL 53
30	J129 602196-900	J201-L 602220-900	COAX	500269	40"	CHANNEL 54
31	J130 602196-900	J201-M 602220-900	COAX	500269	40"	CHANNEL 60
32	J131 602196-900	J201-N 602220-900	COAX	500269	40"	CHANNEL 61
33	J132 602196-900	J201-P 602220-900	COAX	500269	40"	CHANNEL 62
34	J133 602196-900	J201-R 602220-900	COAX	500269	40"	CHANNEL 63
35	J134 602196-900	J201-S 602220-900	COAX	500269	40"	CHANNEL 64
36	J135 602196-900	J201-T 602220-900	COAX	500269	40"	CHANNEL 70
37	J136 602196-900	J201-U 602220-900	COAX	500269	40"	CHANNEL 71
38	J137 602196-900	J201-V 602220-900	COAX	500269	40"	CHANNEL 72
39	J138 602196-900	J201-W 602220-900	COAX	500269	40"	CHANNEL 73
40	J139 602196-900	J201-X 602220-900	COAX	500269	40"	CHANNEL 74

DOC. NO.	407444
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ENGINEERING PARTS LIST

[illegible]

DOC. NO.	407444-0
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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 01 (J100)	Uxx-SLOT yy (J200)	CABLE	407444- 002		SYSTEM WIRE LIST
	BLK AAx PN 02 (J101)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 03 (J102)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 04 (J103)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 05 (J104)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 06 (J105)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 07 (J106)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 08 (J107)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 09 (J108)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 10 (J109)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 11 (J100)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 12 (J111)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 13 (J112)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 14 (J113)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 15 (J114)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 16 (J115)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 17 (J116)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 18 (J117)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 19 (J118)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 20 (J119)	Uxx-SLOT yy (J200)	CABLE	407444- 002		
	BLK AAx PN 21 (J120)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAx PN 22 (J121)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAx PN 23 (J122)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAx PN 24 (J123)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAx PN 25 (J124)	Uxx-SLOT yy (J201)	CABLE	407444- 002		

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAX PN 26 (J125)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 27 (J126)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 28 (J127)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 29 (J128)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 30 (J129)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 31 (J130)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 32 (J131)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 33 (J132)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 34 (J133)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 35 (J134)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 36 (J135)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 37 (J136)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 38 (J137)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 39 (J138)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 40 (J139)	Uxx-SLOT yy (J201)	CABLE	407444- 002		
	BLK AAX PN 41 (J140)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 42 (J141)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 43 (J142)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 44 (J143)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 45 (J144)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 46 (J145)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 47 (J146)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 48 (J147)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 49 (J148)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAX PN 50 (J149)	Uxx-SLOT yy (J202)	CABLE	407444- 002		

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 51 (J150)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 52 (J151)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 53 (J152)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 54 (J153)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 55 (J154)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 56 (J155)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 57 (J156)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 58 (J157)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 59 (J158)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 60 (J159)	Uxx-SLOT yy (J202)	CABLE	407444- 002		
	BLK AAx PN 61 (J160)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 62 (J161)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 63 (J162)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 64 (J163)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 65 (J164)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 66 (J165)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 67 (J166)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 68 (J167)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 69 (J168)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 70 (J169)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 71 (J170)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 72 (J171)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 73 (J172)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 74 (J173)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 75 (J174)	Uxx-SLOT yy (J203)	CABLE	407444- 002		

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 76 (J175)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 77 (J176)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 78 (J177)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 79 (J178)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
	BLK AAx PN 80 (J179)	Uxx-SLOT yy (J203)	CABLE	407444- 002		
This system wirelist serves as a template for incorporating this harness assembly into the overall system wirelist. It does not in any way affect the fabrication of this harness assembly.						

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100 602196-900	J200-A 602220-900	COAX	500269	40"	CHANNEL 00
2	J101 602196-900	J200-B 602220-900	COAX	500269	40"	CHANNEL 01
3	J102 602196-900	J200-C 602220-900	COAX	500269	40"	CHANNEL 02
4	J103 602196-900	J200-D 602220-900	COAX	500269	40"	CHANNEL 03
5	J104 602196-900	J200-E 602220-900	COAX	500269	40"	CHANNEL 04
6	J105 602196-900	J200-F 602220-900	COAX	500269	40"	CHANNEL 10
7	J106 602196-900	J200-H 602220-900	COAX	500269	40"	CHANNEL 11
8	J107 602196-900	J200-J 602220-900	COAX	500269	40"	CHANNEL 12
9	J108 602196-900	J200-K 602220-900	COAX	500269	40"	CHANNEL 13
10	J109 602196-900	J200-L 602220-900	COAX	500269	40"	CHANNEL 14
11	J110 602196-900	J200-M 602220-900	COAX	500269	40"	CHANNEL 20
12	J111 602196-900	J200-N 602220-900	COAX	500269	40"	CHANNEL 21
13	J112 602196-900	J200-P 602220-900	COAX	500269	40"	CHANNEL 22
14	J113 602196-900	J200-R 602220-900	COAX	500269	40"	CHANNEL 23
15	J114 602196-900	J200-S 602220-900	COAX	500269	40"	CHANNEL 24
16	J115 602196-900	J200-T 602220-900	COAX	500269	40"	CHANNEL 30
17	J116 602196-900	J200-U 602220-900	COAX	500269	40"	CHANNEL 31
18	J117 602196-900	J200-V 602220-900	COAX	500269	40"	CHANNEL 32
19	J118 602196-900	J200-W 602220-900	COAX	500269	40"	CHANNEL 33
20	J119 602196-900	J200-X 602220-900	COAX	500269	40"	CHANNEL 34
21	J120 602196-900	J201-A 602220-900	COAX	500269	40"	CHANNEL 40
22	J121 602196-900	J201-B 602220-900	COAX	500269	40"	CHANNEL 41
23	J122 602196-900	J201-C 602220-900	COAX	500269	40"	CHANNEL 42
24	J123 602196-900	J201-D 602220-900	COAX	500269	40"	CHANNEL 43
25	J124 602196-900	J201-E 602220-900	COAX	500269	40"	CHANNEL 44

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J125 602196-900	J201-F 602220-900	COAX	500269	40"	CHANNEL 50
27	J126 602196-900	J201-H 602220-900	COAX	500269	40"	CHANNEL 51
28	J127 602196-900	J201-J 602220-900	COAX	500269	40"	CHANNEL 52
29	J128 602196-900	J201-K 602220-900	COAX	500269	40"	CHANNEL 53
30	J129 602196-900	J201-L 602220-900	COAX	500269	40"	CHANNEL 54
31	J130 602196-900	J201-M 602220-900	COAX	500269	40"	CHANNEL 60
32	J131 602196-900	J201-N 602220-900	COAX	500269	40"	CHANNEL 61
33	J132 602196-900	J201-P 602220-900	COAX	500269	40"	CHANNEL 62
34	J133 602196-900	J201-R 602220-900	COAX	500269	40"	CHANNEL 63
35	J134 602196-900	J201-S 602220-900	COAX	500269	40"	CHANNEL 64
36	J135 602196-900	J201-T 602220-900	COAX	500269	40"	CHANNEL 70
37	J136 602196-900	J201-U 602220-900	COAX	500269	40"	CHANNEL 71
38	J137 602196-900	J201-V 602220-900	COAX	500269	40"	CHANNEL 72
39	J138 602196-900	J201-W 602220-900	COAX	500269	40"	CHANNEL 73
40	J139 602196-900	J201-X 602220-900	COAX	500269	40"	CHANNEL 74
41	J140 602196-900	J202-A 602220-900	COAX	500269	40"	CHANNEL 80
42	J141 602196-900	J202-B 602220-900	COAX	500269	40"	CHANNEL 81
43	J142 602196-900	J202-C 602220-900	COAX	500269	40"	CHANNEL 82
44	J143 602196-900	J202-D 602220-900	COAX	500269	40"	CHANNEL 83
45	J144 602196-900	J202-E 602220-900	COAX	500269	40"	CHANNEL 84
46	J145 602196-900	J202-F 602220-900	COAX	500269	40"	CHANNEL 90
47	J146 602196-900	J202-H 602220-900	COAX	500269	40"	CHANNEL 91
48	J147 602196-900	J202-J 602220-900	COAX	500269	40"	CHANNEL 92
49	J148 602196-900	J202-K 602220-900	COAX	500269	40"	CHANNEL 93

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
50	J149 602196-900	J202-L 602220-900	COAX	500269	40"	CHANNEL 94
51	J150 602196-900	J202-M 602220-900	COAX	500269	40"	CHANNEL 100
52	J151 602196-900	J202-N 602220-900	COAX	500269	40"	CHANNEL 101
53	J152 602196-900	J202-P 602220-900	COAX	500269	40"	CHANNEL 102
54	J153 602196-900	J202-R 602220-900	COAX	500269	40"	CHANNEL 103
55	J154 602196-900	J202-S 602220-900	COAX	500269	40"	CHANNEL 104
56	J155 602196-900	J202-T 602220-900	COAX	500269	40"	CHANNEL 110
57	J156 602196-900	J202-U 602220-900	COAX	500269	40"	CHANNEL 111
58	J157 602196-900	J202-V 602220-900	COAX	500269	40"	CHANNEL 112
59	J158 602196-900	J202-W 602220-900	COAX	500269	40"	CHANNEL 113
60	J159 602196-900	J202-X 602220-900	COAX	500269	40"	CHANNEL 114
61	J160 602196-900	J203-A 602220-900	COAX	500269	40"	CHANNEL 120
62	J161 602196-900	J203-B 602220-900	COAX	500269	40"	CHANNEL 121
63	J162 602196-900	J203-C 602220-900	COAX	500269	40"	CHANNEL 122
64	J163 602196-900	J203-D 602220-900	COAX	500269	40"	CHANNEL 123
65	J164 602196-900	J203-E 602220-900	COAX	500269	40"	CHANNEL 124
66	J165 602196-900	J203-F 602220-900	COAX	500269	40"	CHANNEL 130
67	J166 602196-900	J203-H 602220-900	COAX	500269	40"	CHANNEL 131
68	J167 602196-900	J203-J 602220-900	COAX	500269	40"	CHANNEL 132
69	J168 602196-900	J203-K 602220-900	COAX	500269	40"	CHANNEL 133
70	J169 602196-900	J203-L 602220-900	COAX	500269	40"	CHANNEL 134
71	J170 602196-900	J203-M 602220-900	COAX	500269	40"	CHANNEL 140
72	J171 602196-900	J203-N 602220-900	COAX	500269	40"	CHANNEL 141
73	J172 602196-900	J203-P 602220-900	COAX	500269	40"	CHANNEL 142
74	J173 602196-900	J203-R 602220-900	COAX	500269	40"	CHANNEL 143

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