1260 VXI SWITCHING CARD

1260-36 F.E.T. MULTIPLEXER / SCANNER

PUBLICATION NO. 980673-017

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FOR YOUR SAFETY

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

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

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

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

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

Before operating this instrument:

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

If the instrument:

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

Do not operate until performance is checked by qualified personnel.

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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 that 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 that 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, 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 that are available for the 1260-01T.

Control Information for the 1260-36

This card has a unique control scheme that is NOT shared by any other 1260 series relay module. This card comprises 12 1x8 MUXes. There is a total of 6 control registers on the module. Each byte controls 2 1x8 MUXes.

The control bit assignment for each MUX is shown below:

Bit 7 (MSB)	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0 (LSB)
CODD	CEVEN	ODD2	ODD1	ODD0	EVEN2	EVEN1	EVEN0

Each MUX is controlled with one control bit and 3 select bits:

CEVEN	Control Bit for EVEN MUXes (0X, 2X, 4X, 6X, 8X, 10X, $X = 0$ to 7)
EVEN2 EVEN1 EVEN0	Select Bits for EVEN MUXes
CODD	Control Bit for ODD Muxes (1X,3X,5X,7X,9X,11X, X = 0 to 7)
ODD2 ODD1 ODD0	Select Bits for ODD MUXes

When the Control Bit for a MUX is 0, no channels in that MUX are closed. In this case, the value of the 3 Select Bits for the MUX do not affect the operation of the MUX.

When the Control bit is 1, the channel closed is selected by the Select Bits

0	Channel 0 of MUX is closed
1	Channel 1 of MUX is closed
2	Channel 2 of MUX is closed
3	Channel 3 of MUX is closed
4	Channel 4 of MUX is closed
5	Channel 5 of MUX is closed
6	Channel 6 of MUX is closed
7	Channel 7 of MUX is closed

So the following patterns control the ODD and EVEN MUXes within each control register:

EVEN MUX Select Patterns

Hex Patterr	n Binary Pattern	Channel Closed
00	x0xx x000	None (Control Bit = 0)
01	x0xx x001	None (Control Bit = 0)
02	x0xx x010	None (Control Bit $= 0$)
03	x0xx x011	None (Control Bit $= 0$)
04	x0xx x100	None (Control Bit $= 0$)
05	x0xx x101	None (Control Bit $= 0$)
06	x0xx x110	None (Control Bit $= 0$)
07	x0xx x111	None (Control Bit $= 0$)
40	x1xx x000	Channel 0 of EVEN MUX closed
41	x1xx x001	Channel 1 of EVEN MUX closed
42	x1xx x010	Channel 2 of EVEN MUX closed
43	x1xx x011	Channel 3 of EVEN MUX closed
44	x1xx x100	Channel 4 of EVEN MUX closed
45	x1xx x101	Channel 5 of EVEN MUX closed
46	x1xx x110	Channel 6 of EVEN MUX closed
47	x1xx x111	Channel 7 of EVEN MUX closed

ODD MUX Select Patterns

Hex Pattern 00	Binary Pattern 0x00 0xxx	Channel Closed None (Control Bit = 0)
08	0x00 1xxx	None (Control Bit = 0)
10	0x01 0xxx	None (Control Bit $= 0$)
18	0x01 1xxx	None (Control Bit = 0)
20	0x10 0xxx	None (Control Bit = 0)
28	0x10 1xxx	None (Control Bit = 0)
30	0x11 0xxx	None (Control Bit = 0)
38	0x11 1xxx	None (Control Bit = 0)
80	1x00 0xxx	Channel 0 of ODD MUX closed
88	1x00 1xxx	Channel 1 of ODD MUX closed
90	1x01 0xxx	Channel 2 of ODD MUX closed
98	1x01 1xxx	Channel 3 of ODD MUX closed
A0	1x10 0xxx	Channel 4 of ODD MUX closed
A8	1x10 1xxx	Channel 5 of ODD MUX closed
B0	1x11 0xxx	Channel 6 of ODD MUX closed
B8	1x11 1xxx	Channel 7 of ODD MUX closed

The control registers are formed by OR-ing the EVEN control pattern with the ODD control pattern.

Example:

Control Register 0 Value = B8 hexadecimal (= 1011 1000 binary)

EVEN MUX	No Channels Closed (Channels 00 through 07)
ODD MUX	Channel 7 of MUX Closed (= Channel 17)

Control Register 1 Value = 40 hexadecimal (= 0100 0000 binary)

EVEN MUX	Channel 0 of MUX Closed (= Channel 20)
ODD MUX	No Channels Closed (Channels 30 through 37)

Control Register 2 Value = F8 hexadecimal (= 1111 1000 binary) (= B8 ORed with 40)

EVEN MUX	Channel 0 of MUX Closed (= Channel 40)
ODD MUX	Channel 7 of MUX Closed (= Channel 57)

Control Register 3 Value = DA hexadecimal (= 1101 1010 binary) (= 42 ORed with 98)

EVEN MUX	Channel 2 of MUX Closed (= Channel 62)
ODD MUX	Channel 3 of MUX Closed (= Channel 73)

Control Register 4 Value = 33 hexadecimal (= 0011 0011) (= 30 ORed with 03)

EVEN MUX	No Channels Closed (= Channels 80 through 87) (CEVEN = 0)
ODD MUX	No Channels Closed (= Channels 90 through 97) (CODD = 0)

Control Register 5 Value = C6 hexadecimal (= 1100 0000) (= 80 ORed with 46)

EVEN MUX	Channel 6 of MUX Closed (= Channel 106)
ODD MUX	Channel 0 of MUX Closed (= Channel 110)

The A24 address of each control register is based on three items:

- the A24 Offset assigned by the Resource Manager
- the Module Address assigned to the relay module with DIP Switch SW-1
- which control register to write to (Control Register 0 through 5)

Control Register 0 is located at the base address for the module. For example:

Offset from Resource Manager = 200 000 hexadecimal Module Address = 3 (decimal) Module Address x 400 hex (1024 decimal) = C00 hex Base Offset of each 1260 Module = (A24 Offset) + ((Module Address) x 400 hex) + 1

 $(200\ 000) + (C00) + 1 = 200\ C01$

Control Registers are located only at odd addresses. Therefore, Control Registers would be located at the following addresses

200 C01
200 C03
200 C05
200 C07
200 C09
200 C0B

NOTE: When using VISA functions, such as viln8() and viOut8(), the A24 offset is already included by VISA. Therefore, when using a function such as viOut8() to write the value C6 (hex) to Control Register 5 in the example above, do **NOT** include the A24 in the function call:

Thus, the following function call may be used to write the value C6 to control register 5.

viOut8(hdl, 0xC0B, 0xC6);

The 1260-36 is the only 1260 Series Module where the data read back from the control register is NOT inverted. If the value C6 is written to a control register, the value read back will be C6.

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Chapter 1 MODULE SPECIFICATION

1260-36 Module Specification

The 1260-36 FET. Multiplexer/Scanner Module is a VXIbus switch module containing twelve 1 x 8 multiplexers. It has the capability of being configured as six 1 x 16 multiplexers, four 1 x 24 multiplexers, three 1 x 32 multiplexers, two 1 x 48 multiplexers, or one 1 x 96 multiplexer. The configuration is user selectable, but is supplied by the factory in one 1 x 96 multiplexer. A block diagram of the module is shown in Figure 3-2.



Figure 1-1, 1260-36 F.E.T. Multiplexer/Scanner Module

Specifications	Switch Configuration	Break-Before-Make Action
-	Analog Signal Range	-15V to +15V DC to 250 kHz -10V to +10V to 400 kHz -5V to +5V to 2 MHz
	Overvoltage Protection	\pm 35 V peak, continuously
	Input Impedance	Nominal 900k Ω ±15%
	Input Leakage Current (Off state)	<20 nA
	Capacitance Open Channel	20 pF typical
	OFF Isolation (3OVpp) (See Figure 1-1)	- 80dB at 1kHz, - 70dB at 10kHz - 60dB at 100kHz, - 50dB at 1MHz
	Crosstalk (3OVpp) (See Figure 1-1)	- 80dB at 1kHz, - 60dB at 10kHz - 50dB at 100kHz, - 30dB at 1MHz
	Bandwidth (-3dB)	DC to 2MHz (5 V_{pp})
	Slew Rate	> 25V/µs
	Phase Delay	<4° at 100kHz
	Gain Variation with Temperature	\pm 0.1dB (DC to 100kHz)
	Output Impedance	< 2Ω
	Output Offset Voltage	< \pm 30µV at 23 ^o C \pm 3 ^o C (Output current < 10mA) < \pm 120µV from 0 ^o C to 50 ^o C
	Maximum Output Current	\pm 35mA per group
	Maximum Switching Speed	100 operations/second
	Power Requirement	+5V 2.5A +24V 600mA maximum -24V 600mA maximum
	Cooling Requirement	4 I/Sec

	Dimension	C-size, sing	gle slot
	User Connectors	Twelve 20-pin, Positronics SGMC 20	
	Weight	1.45kg (3.19 lb.) w 1.590kg (3.50 lb.) v	•
Specifications	Configuration	Bandwidth	Input impedance
(Other	Six 1x16	1MHz	833kΩ // 40pF
Configurations)	Four 1x24	800kHz	770kΩ // 60pF

Three 1x32 500kHz 711kΩ // 3 Two 1x48 400kHz 625kΩ // 1	50pF
Two 1x48 400kHz 625kΩ //	30pF
	•
One 1x96 200kHz 454kΩ // 2	•

OFF Isolation Measuerment

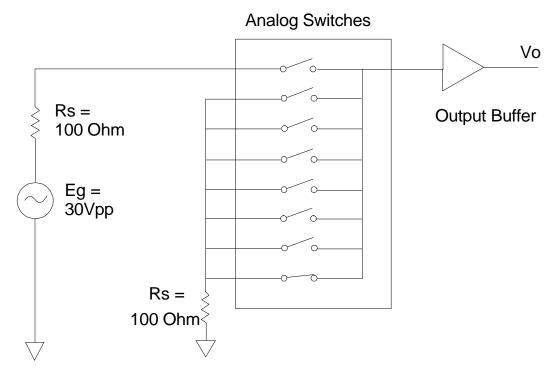


Figure 1-2, 1260-36 Off Isolation

Crosstalk Measurement

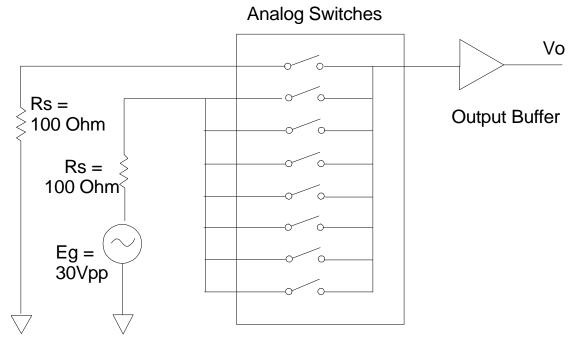


Figure 1-3, 1260-36 Crosstalk Measurement

Chapter 2 INSTALLATION INSTRUCTIONS

Before unpacking the switching module, check the exterior of the Unpacking and shipping carton for any signs of damage. All irregularities should Inspection be noted on the shipping bill. Remove the instrument from its carton, preserving the factory packaging as much as possible. Inspect the switching module for any defect or damage. Immediately notify the carrier if any damage is apparent. Have a qualified person check the instrument for safety before use. CAUTION Proper ESD handling procedures must always be used when packing, unpacking or installing any 1260 Series cards. Failure to do so may cause damage to the unit. Use the original packing when returning the switching module to Reshipment Racal Instruments for calibration or servicing. The original shipping Instructions carton and the instrument's plastic foam will provide the necessary support for safe reshipment. If the original packing is unavailable, wrap the switching module in plastic sheeting and use plastic spray foam to surround and protect the instrument. Reship in either the original or a new shipping carton. Installation of the Option 01 to the 1260-36 is described in the **Option 01** Installation Section of the 1260 Series VXIbus Switching Cards Installation Manual. Installation of the 1260-36 Switching Module into a VXIbus Module mainframe, including the setting of DIP switches, is described in Installation the Installation Section of the 1260 Series VXIbus Switching Cards Manual. Configuration of the PCBA and setting DIP switches S1-5 and S1-6 are described in the following sections.

Configuration Jumpers

The 1260-36 Multiplexer/Scanner Module is a user configurable switching module that may be configured in six different configurations as follows:

- 1) Twelve 1 x 8 multiplexer/scanners
- 2) Six 1 x 16 multiplexer/scanners
- 3) Four I x 24 multiplexer/scanners
- 4) Three I x 32 multiplexer/scanners
- 5) Two I x 48 multiplexer/scanners
- 6) One 1 x 96 multiplexer/scanners

The 1260-36 is shipped from the factory in the 1 x 96 multiplexer configuration. Table 2-I gives information necessary to configure the module into other possible configurations.

Table 2-1, 1260-36 Jumper Installation

An XXX indicates a jumper is to be fitted. A blank indicates no jumper is to be fitted.

	12(1x8)	6(1x16)	4 (1 x24)	3 (1x32)	2 (1x48)	1 (1x96)
W1		XXX	XXX	xxx	xxx	xxx
W2			XXX	XXX	XXX	ххх
W3		ХХХ		XXX	XXX	ххх
W4			XXX		XXX	ххх
W5		ХХХ	XXX	XXX	XXX	ххх
W6				XXX		ххх
W7		xxx	XXX	xxx	xxx	xxx
W8			XXX		XXX	xxx
W9		ХХХ		XXX	XXX	xxx
W10			xxx	xxx	xxx	xxx
W11		XXX	xxx	xxx	xxx	XXX

Chapter 3 MODULE SPECIFIC SYNTAX

1260-36 Module Specific Syntax	The Module Specific Syntax for the 1260-36 is required in the use of the OPEN and CLOSE commands. It also appears in data output by the Master in response to the PDATAOUT and PSETUP commands.
Syntax	The Module Specific Syntax for the 1260-36 F.E.T. Multiplexer/Scanner module is as follows: <module address="">.<group> <channel number=""> where <module address=""> is the address. <group> is the reference number of the mux on which a channel is to be closed; value 0 to 11 <channel number=""> is the reference number of the hannel to be closed; value 0 to 7</channel></group></module></channel></group></module>

NOTE

The <module address> used here is <u>not</u> the VXIbus defined logical address of the 1260 Series Master. It is unique 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 actual mapping of number to connector pins is given in Table 3-1. Figure 3-2 shows the physical location of the various connector pins.

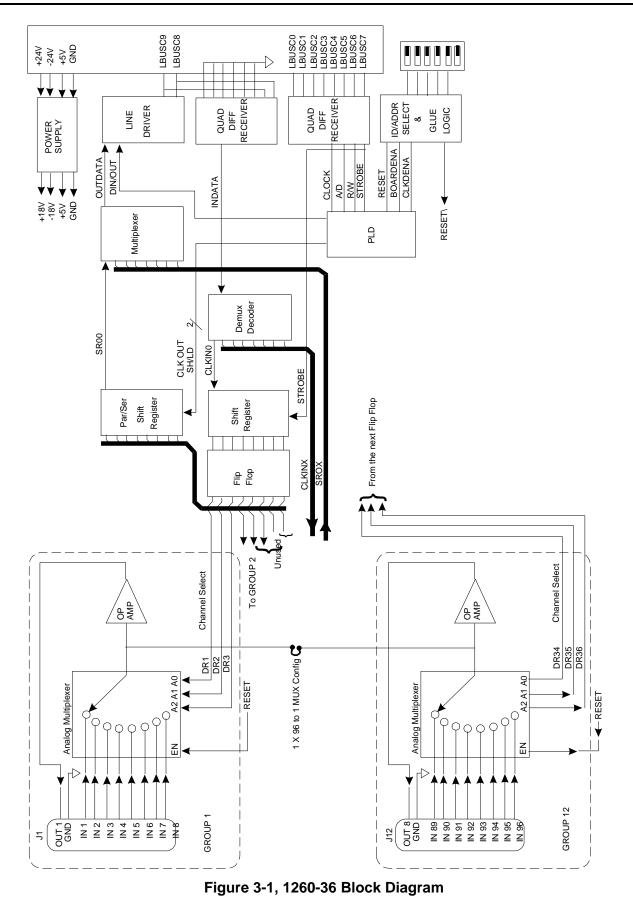
Table 3-1, 1260-36 Channel Closure

<group></group>	<channel></channel>	<channel> output pins to <channel> input pins</channel></channel>		
0	0	J0-J,M	J0-C	
	1	JO-J,M	J0-K	
	2	JO-J,M	J0-S	
	3	JO-J,M	J0-X	
	4	JO-J,M	J0-A	
		JO-J,M	J0-H	
	5 6	JO-J,M	J0-P	
	7	J0-J,M	JO-W	
1	0	J1-J,M	J1-C	
	1	J1-J,M	J1-K	
	2	J1-J,M	J1-S	
	3	J1-J,M	J1-X	
	4	J1-J,M	J1-A	
	5	J1-J,M	J1-H	
	6	J1-J,M	J1-P	
	7	J1-J,M	J1-W	
2	0	J2-J,M	J2-O	
	1	J2-J,M	J2-k	
	2	J2-J,M	J2-S	
	3	J2-J₁M	J2-X	
	4	J2-J,M	J2-A	
	5	J2-J,M	J2-H	
	6 7	J2-J₁M	J2-P	
		J2-J,M	J2-W	
3	0	J3-J,M	J3-C	
	1	J3-J₁M	J3-K	
	23	J3-J,M	J3-S	
	3	J3-J,M	J3-X	
	4	J3-J,M	J3-A	
	5 6	J3-J,M	J3-H	
	6	J3-J₁M	J3-P	
	7	J3-J,M	J3-W	
4	0	J4-J,M	J4-C	
	1	J4-J,M	J4-K	
	2	J4-J,M	J4-S	
	3	J4-J,M	J4-X	
	4	J4-J,M	J4-A	
	5	J4-J,M	J4-H	
	6	J4-J,M	J4-P	
	7	J4-J,M	J4-W	

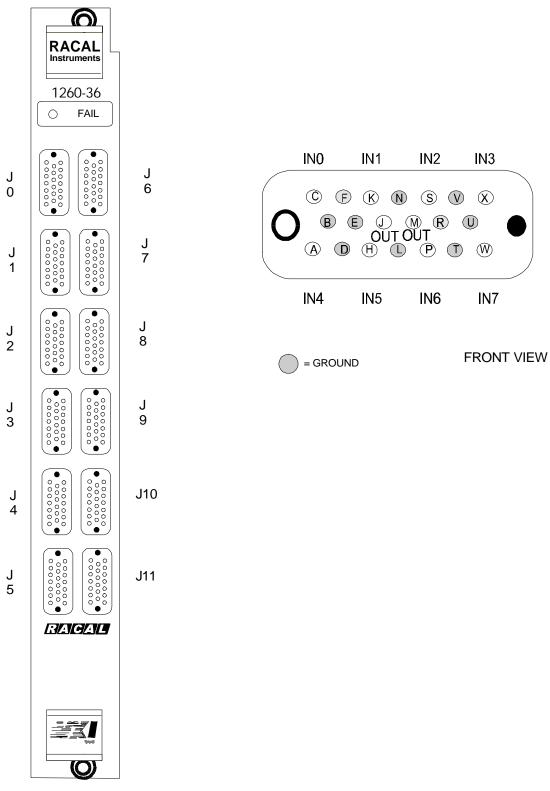
<group></group>	<channel></channel>	<pre><channel> output pins to <channel> input pins</channel></channel></pre>		
5	0	J5-J,M	J5-C	
	1	J5-J,M	J5-K	
	2	J5-J,M	J5-S	
	3	J5-J,M	J5-X	
	4	J5-J,M	J5-A	
	5	J5-J,M	J5-H	
	6	J5-J₁M	J5-P	
	7	J5-J,M	J5-W	
6	0	J6-J₁M	J6-C	
	1	J6-J,M	J6-K	
	2	J6-J,M	J6-S	
	3	J6-J,M	J6-X	
	4	J6-J,M	J6-A	
	5	J6-J,M	J6-H	
	6	J6-J,M	J6-P	
	7	J6-J,M	J6-W	
7	0	J7-J,M	J7-C	
	1	J7-J,M	J7-K	
	2	J7-J,M	J7-S	
	3	J7-J,M	J7-X	
	4	J7-J,M	J7-A	
	5	J7-J,M	J7-H	
	6	J7-J,M	J7-P	
	7	J7-J,M	J7-W	
8	0	J8-J,M	J8-C	
	1	J8-J₁M	J8-K	
	2	J8-J,M	J8-S	
	3	J8-J,M	J8-X	
	4	J8-J,M	J8-A	
	5	J8-J,M	J8-H	
	6	J8-J,M	J8-P	
	7	J8-J,M	J8-W	
9	0	J9-J,M	J9-C	
	1	J9-J,M	J9-K	
	2	J9-J,M	J9-S	
	3	J9-J,M	J9-X	
	4	J9-J,M	J9-A	
	5	J9-J,M	J9-H	
	6	J9-J,M	J9-P	
	7	J9-J,M	J9-W	

<group></group>	<channel></channel>	<pre><channel> output pins to <channel> input pins</channel></channel></pre>		
10	0	J10-J,M	J10-C	
	1	J10-J,M	J10-K	
	2	J10-J,M	J10-S	
	3	J10-J,M	J10-X	
	4	J10-J,M	J10-A	
	5	J10-J,M	J10-H	
	6	J10-J,M	J10-P	
	7	J10-J,M	J10-W	
11	0	J11-J,M	J11-C	
	1	J11-J,M	J11-K	
	2	J11-J,M	J11-S	
	3	J11-J,M	J11-X	
	4	J11-J,M	J11-A	
	5	J11-J,M	J11-H	
	6	J11-J,M	J11-P	
	7	J11-J,M	J11-W	

Table 3-1, 1260-36 Channel Closure (Continued)



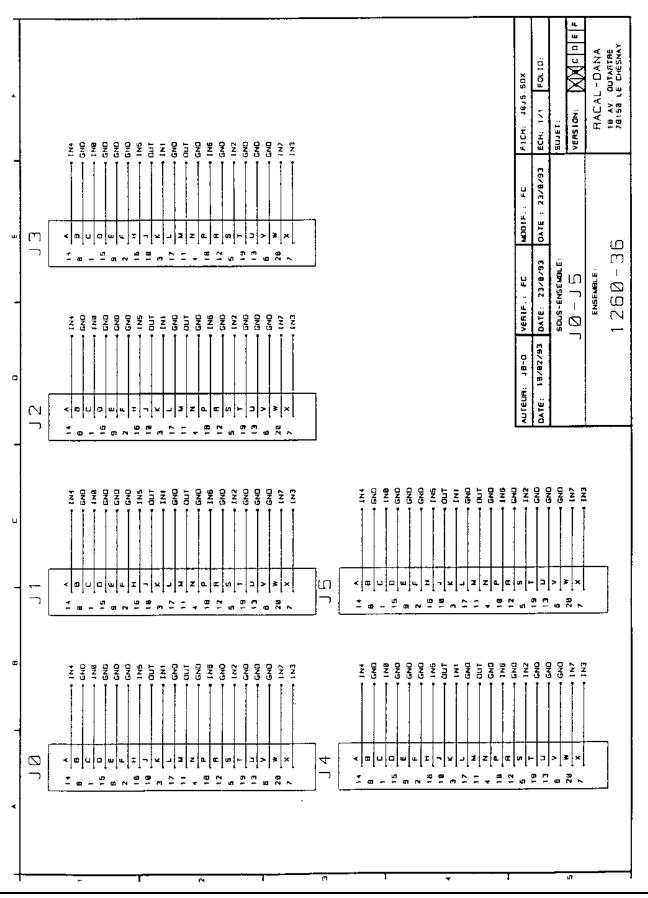
Module Specific Syntax 3-5

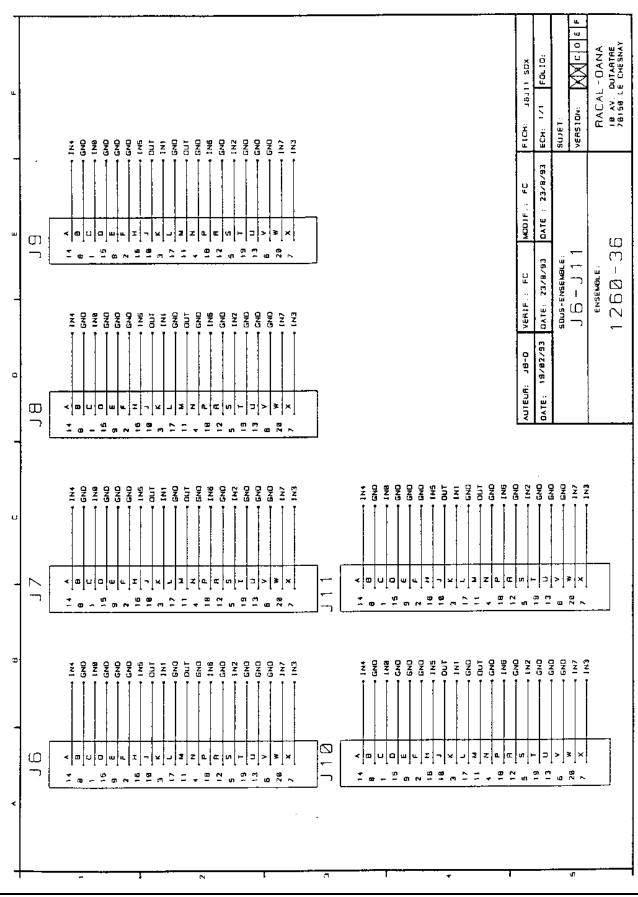




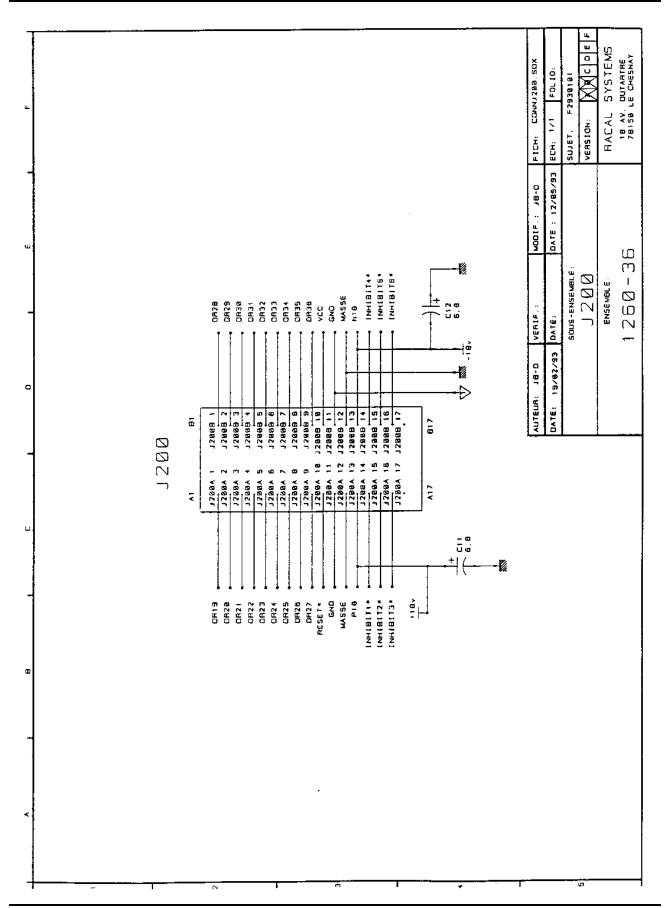
Chapter 4 DRAWINGS

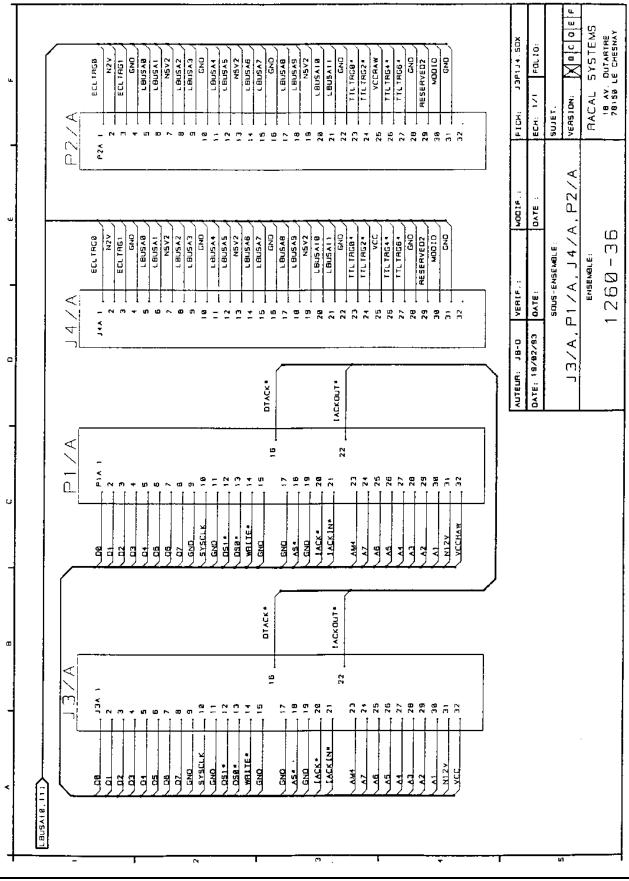
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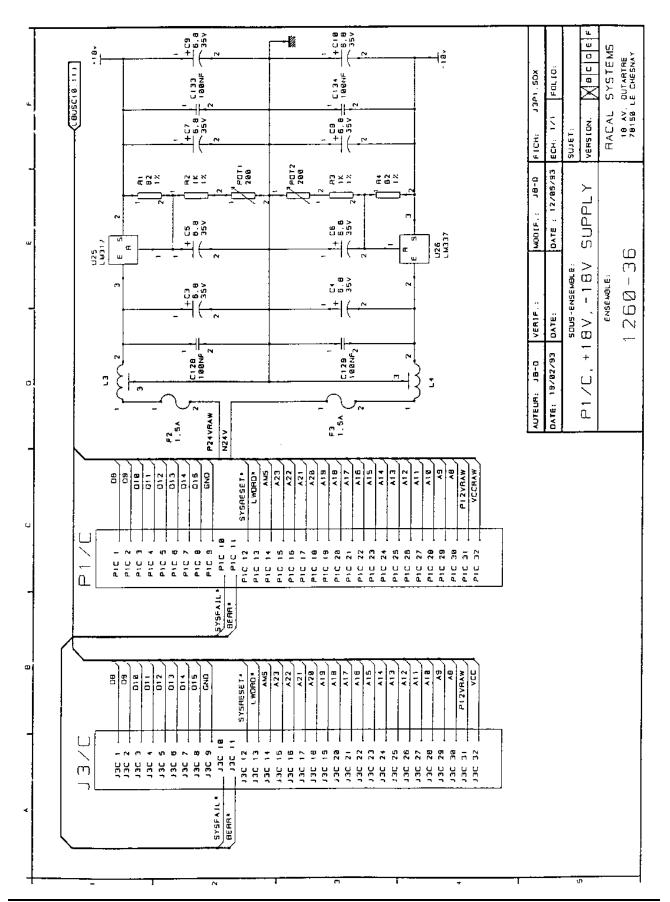
Drawings 4-4

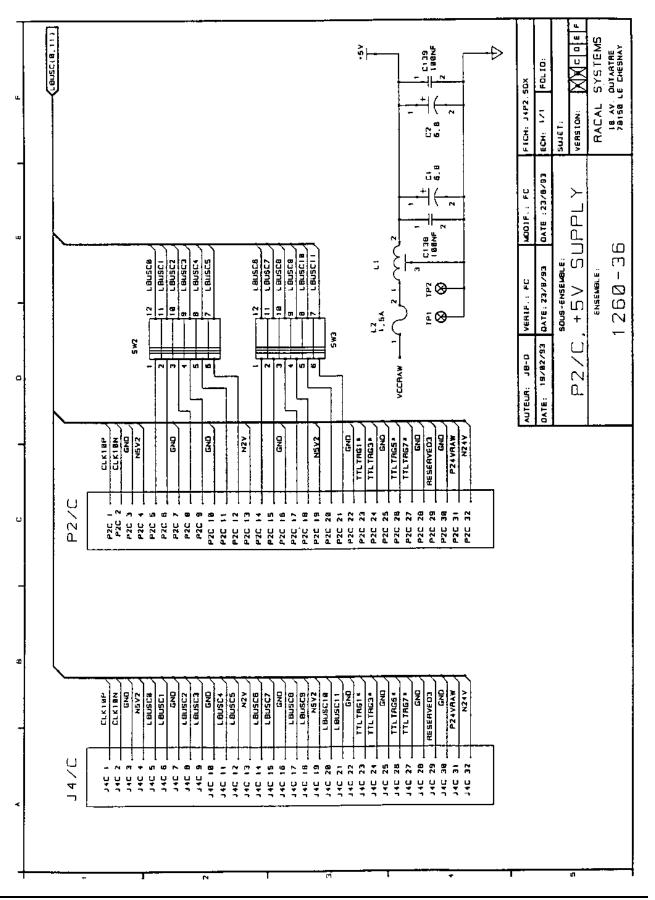


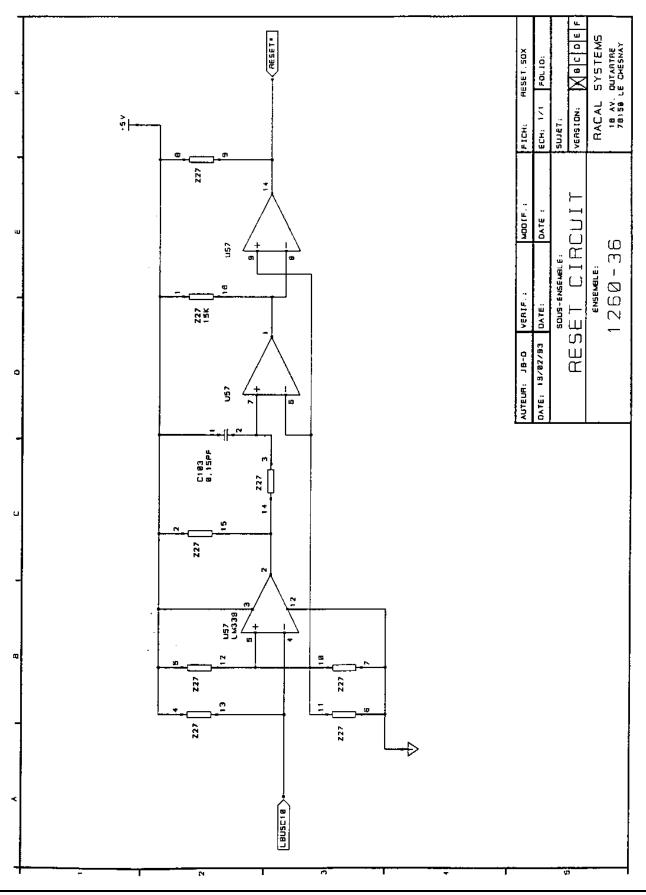


Drawings 4-6

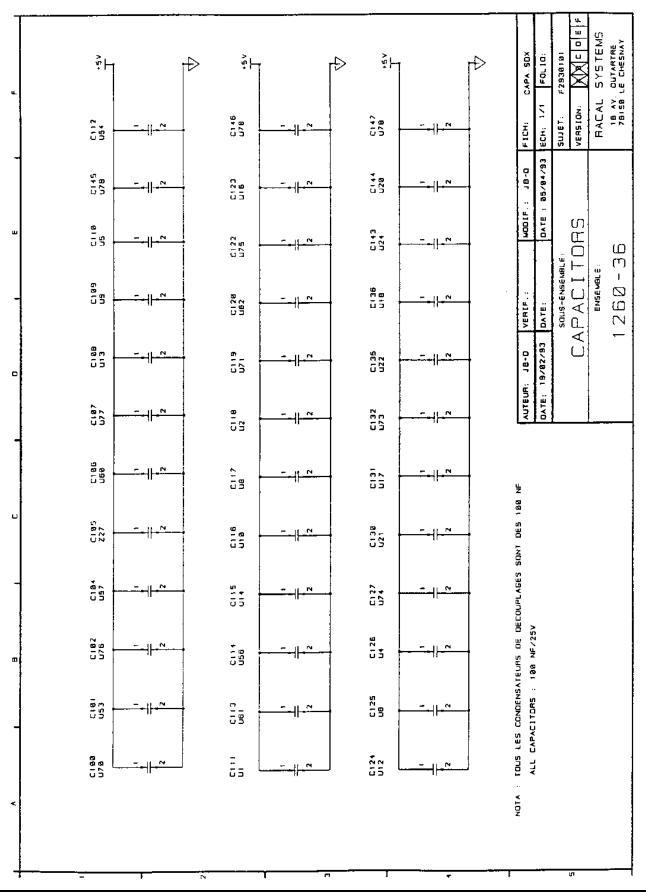
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U .	BG20ULT P1812 BG20ULT P1812 BG20ULT P1812 P1812 P1812 P1822 P1812 P1822 P1812 P1822 P1812 P1822 P1812 P1822 P1822 P1823 P1822 P1823 P1822 P1823 P1823 P1833 P1832 P1833 P1832 P1833 P1833 P1833 P1832	
	885x* 885x* 865x* 865x* 865x* 8630ur 8631n* 8630ur 860 860 660 863 660 1600 660 1600 1600 1600 1600 1600 1600 1600 1600 1600	
*) o

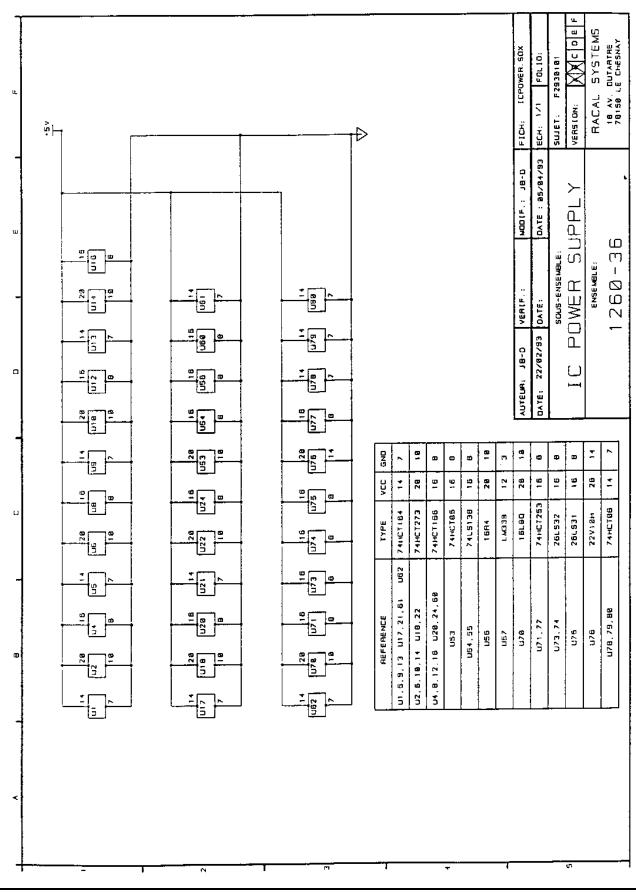






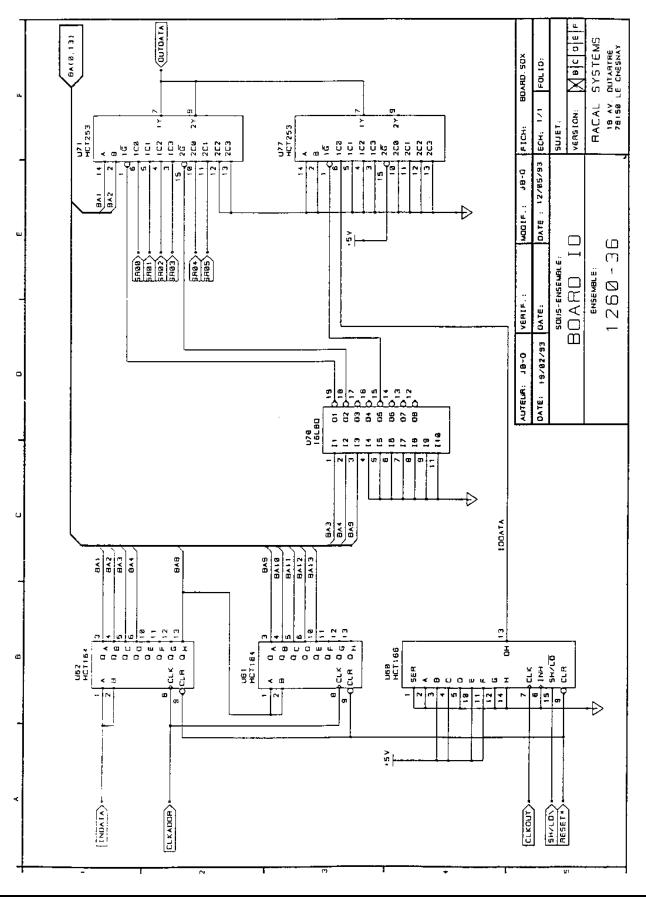


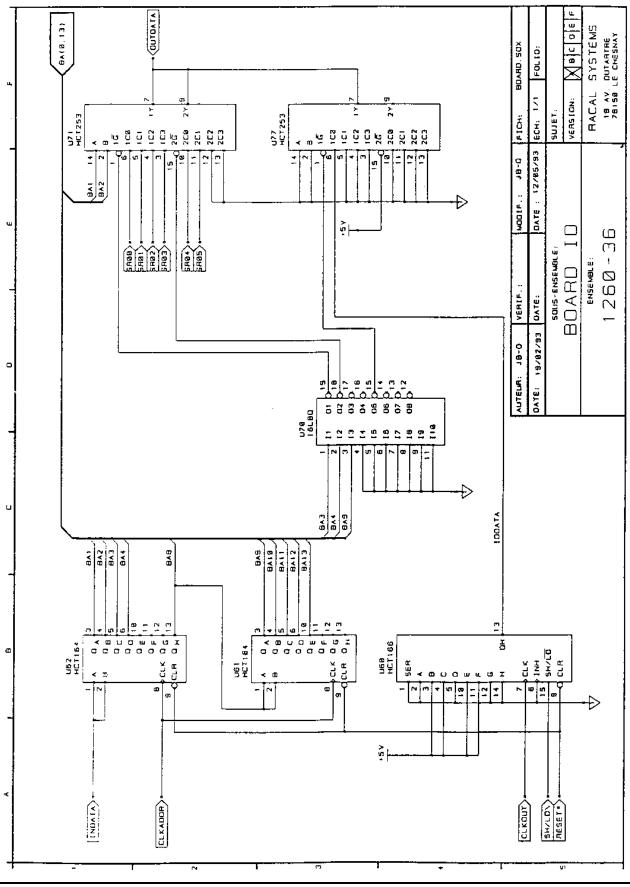


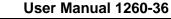


User Manual 1260-36

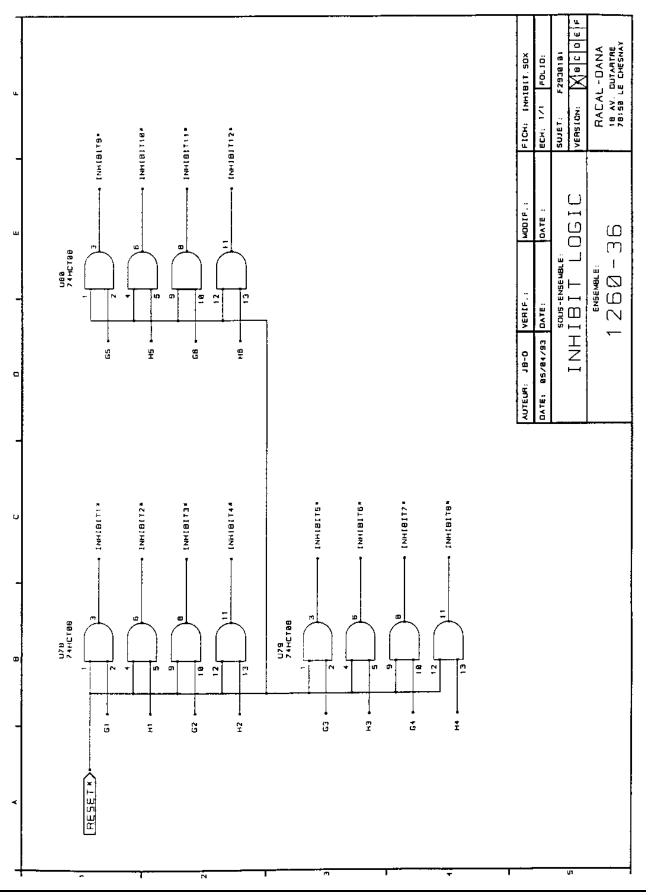
Drawings 4-12

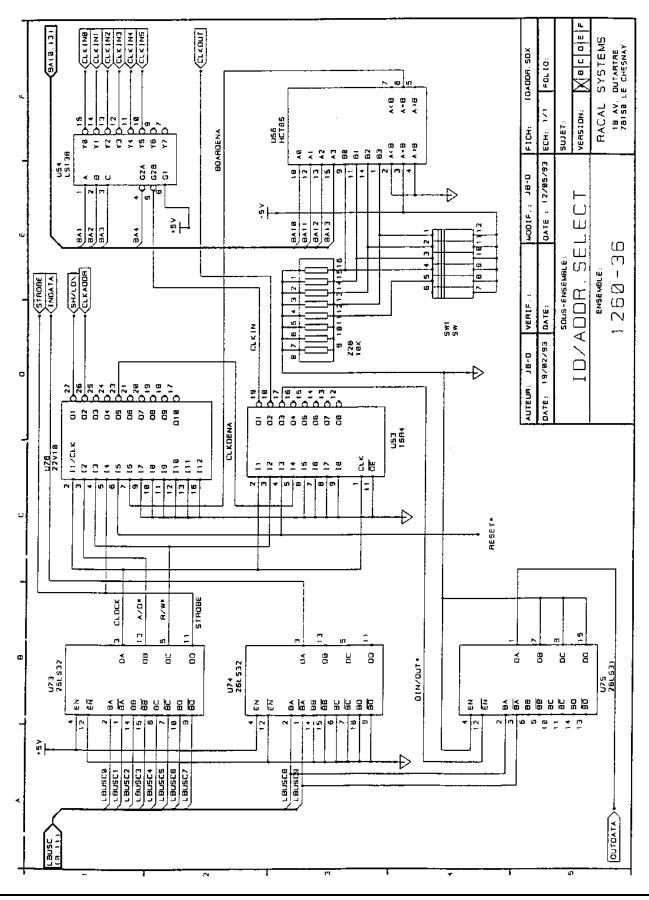


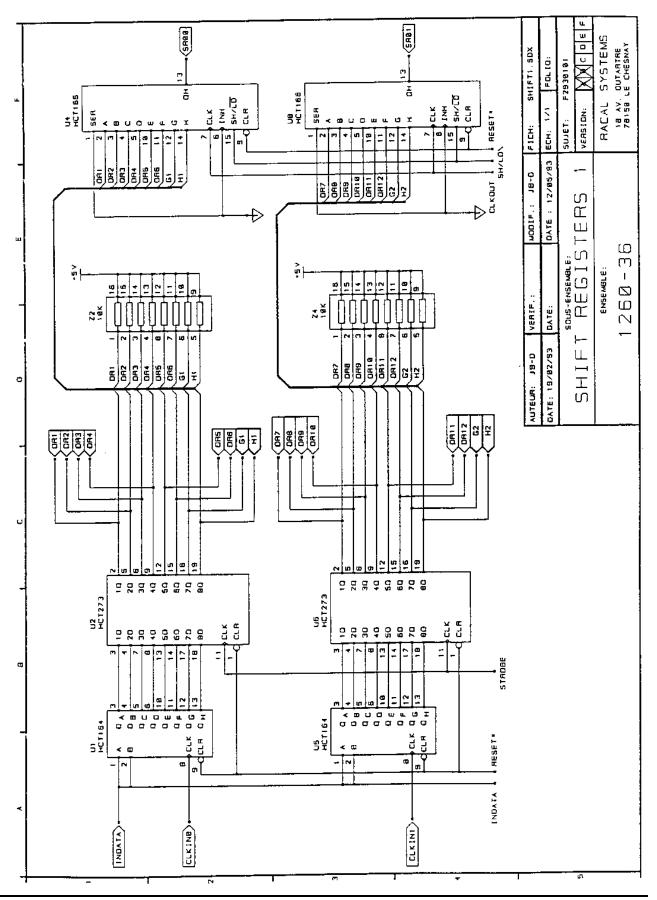


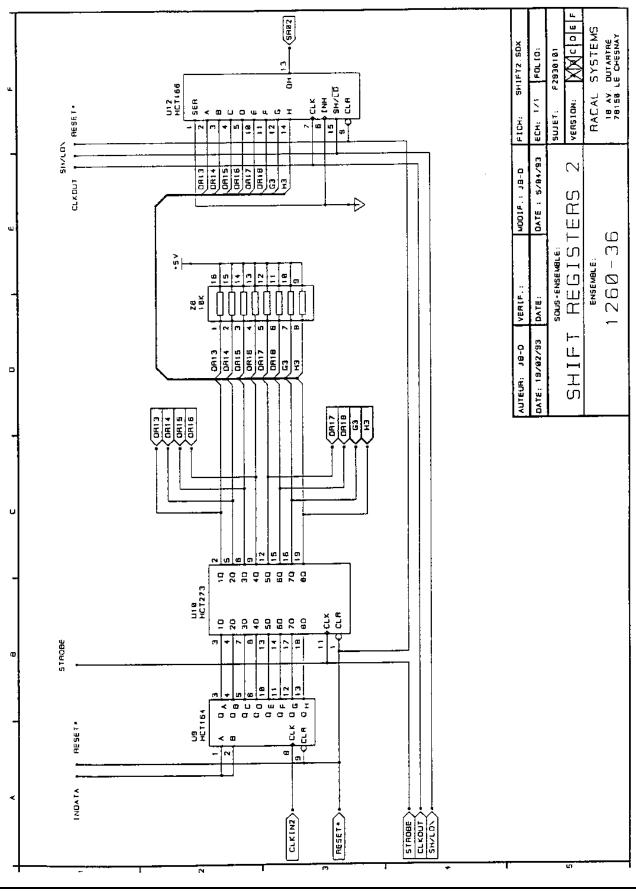


Drawings 4-14

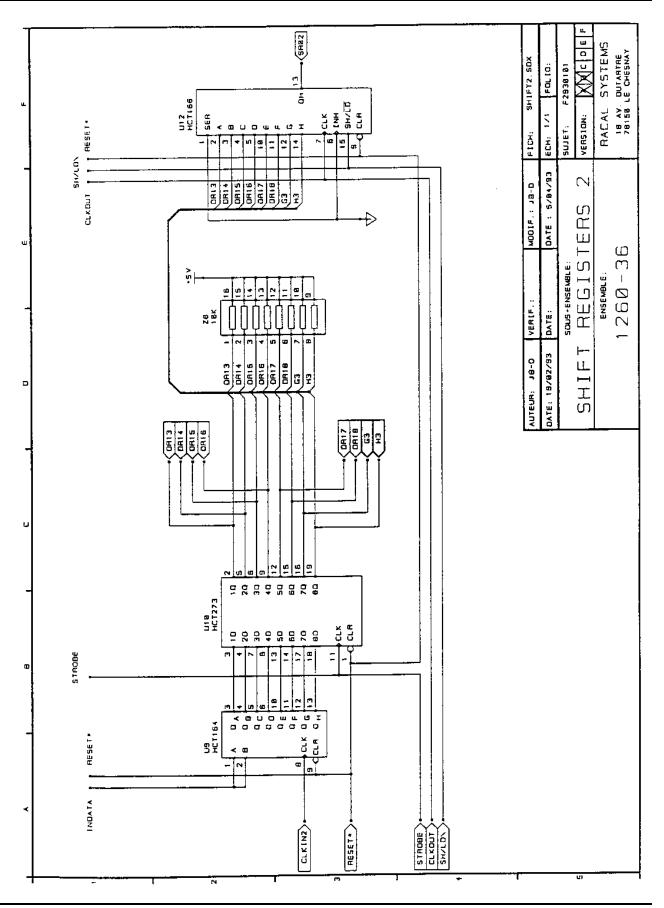


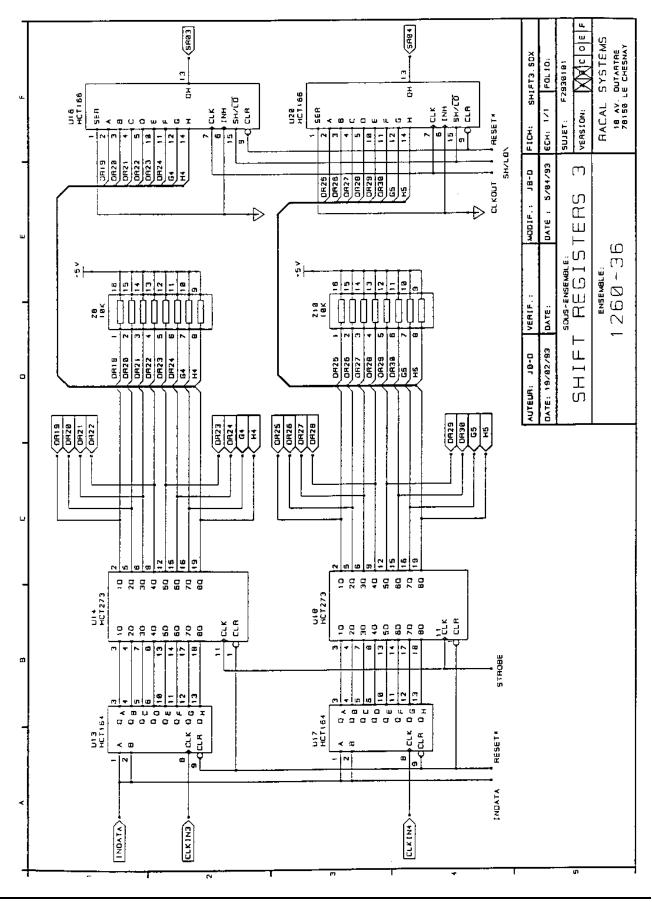




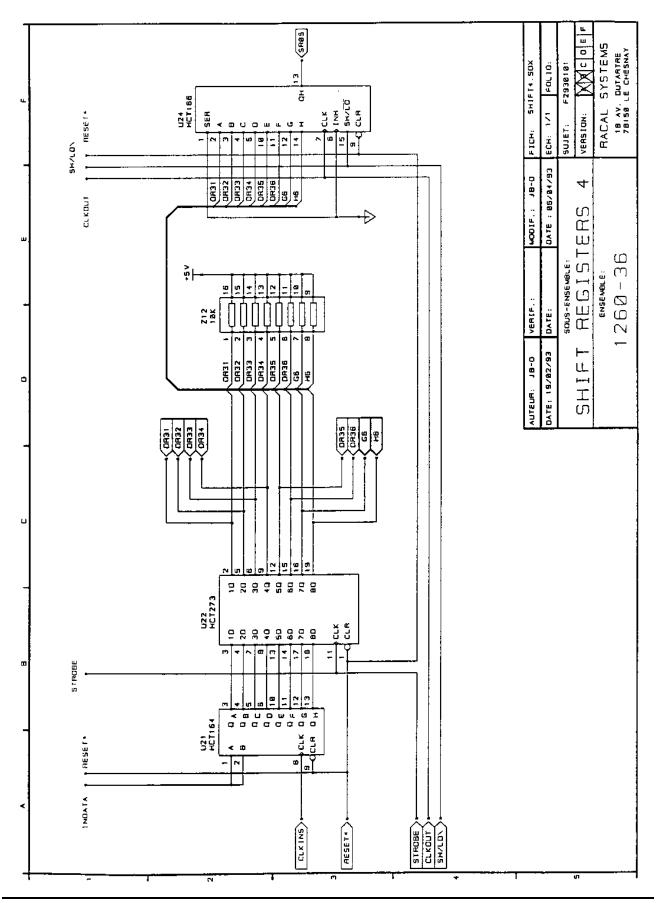


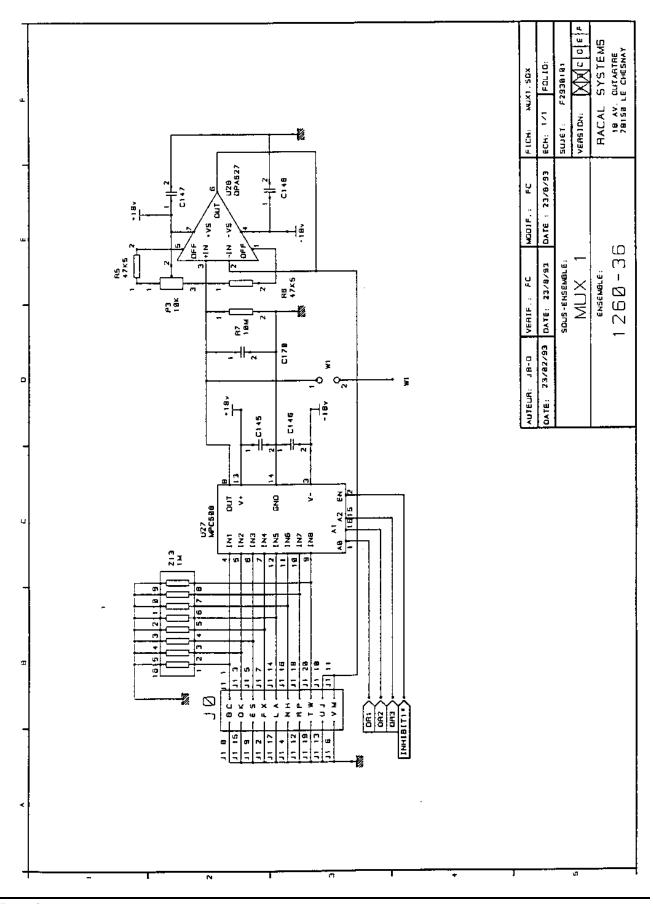
Drawings 4-18

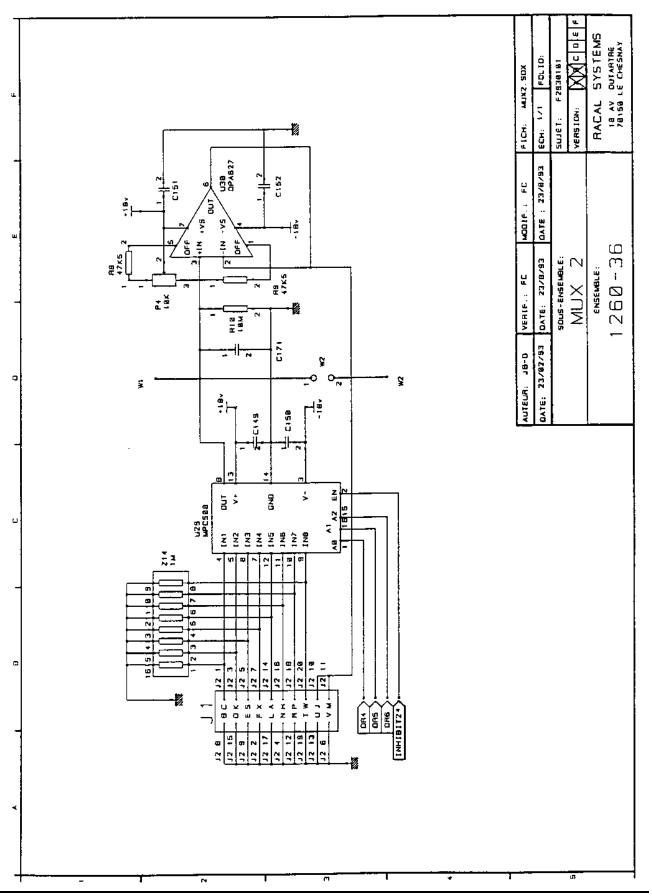


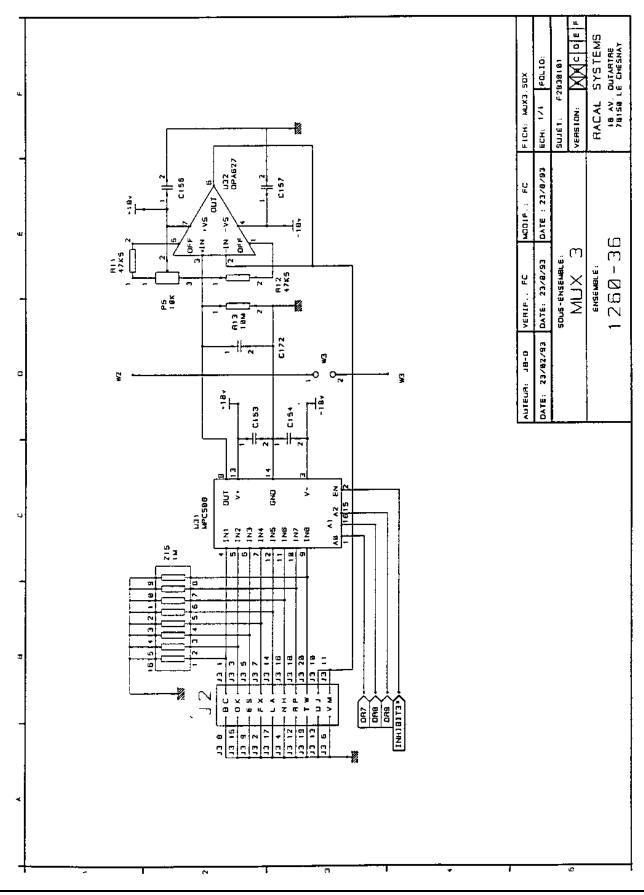


Drawings 4-20

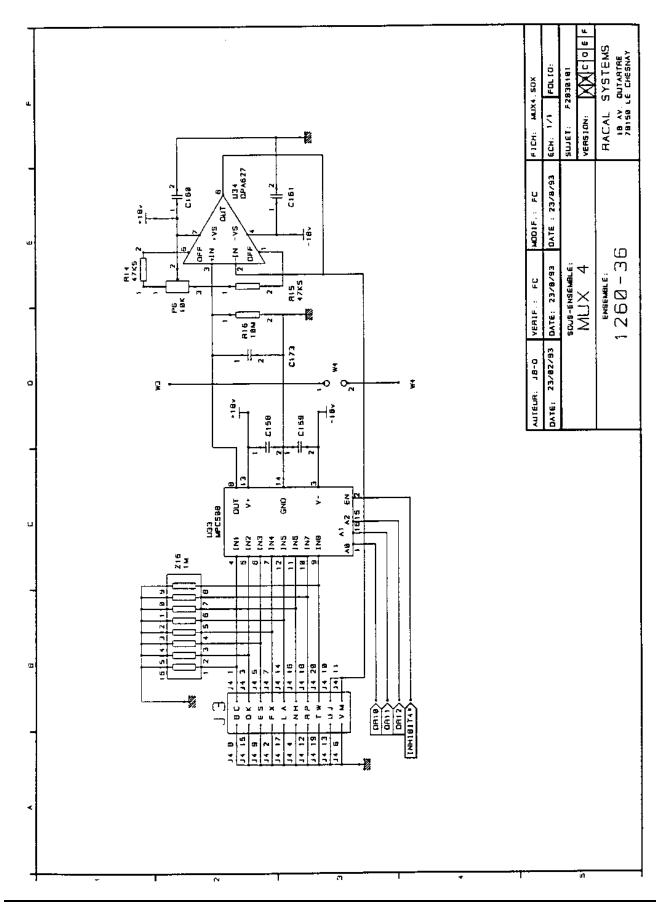


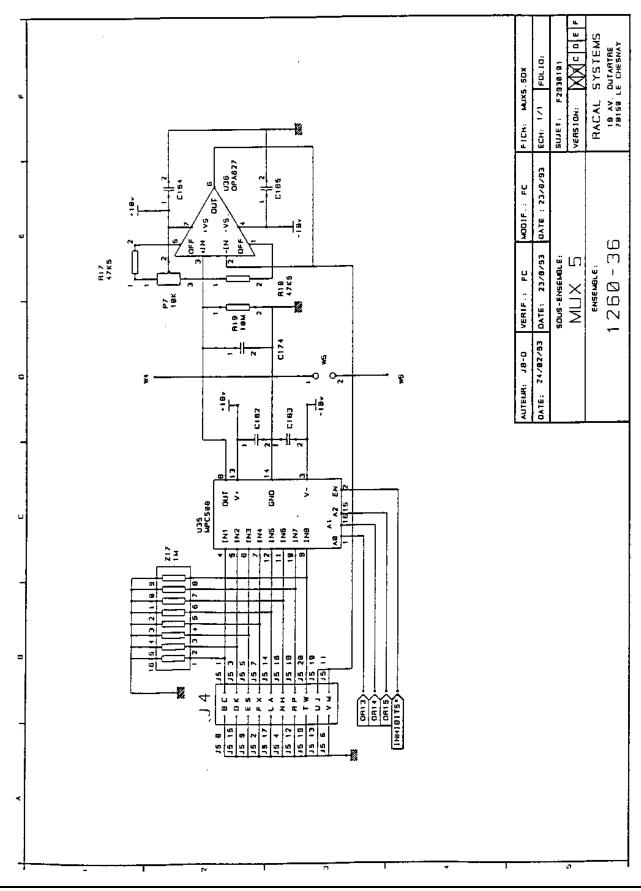




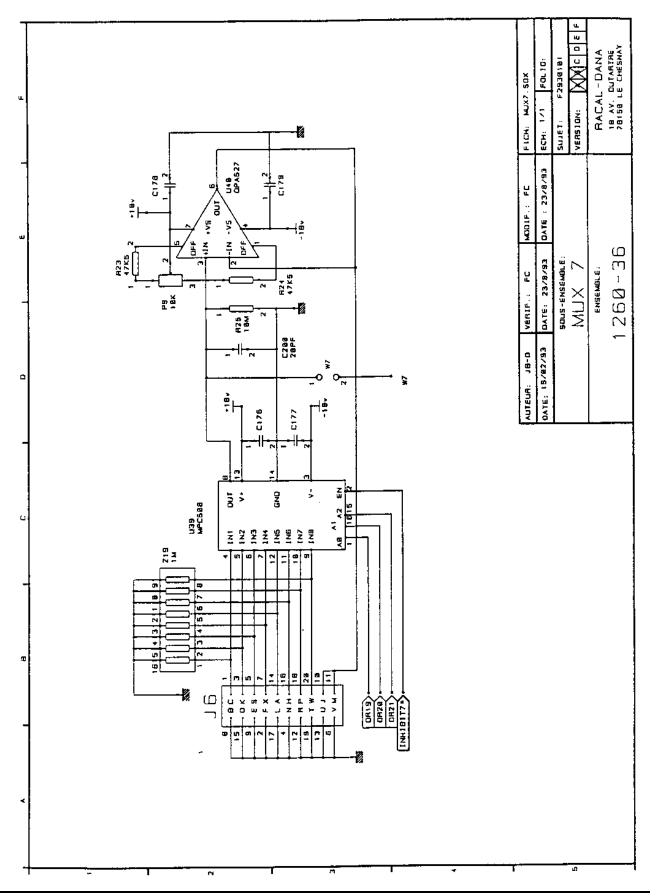


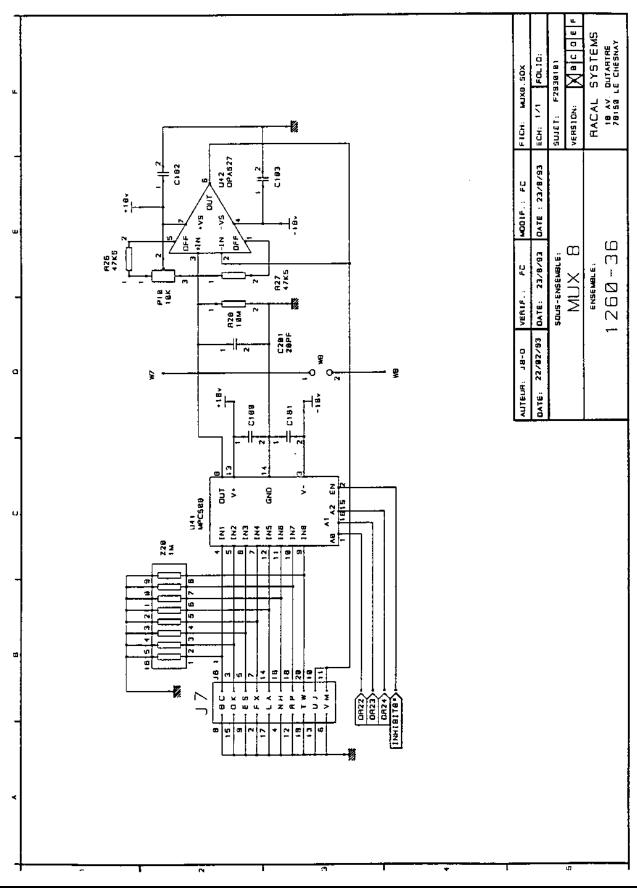
Drawings 4-24



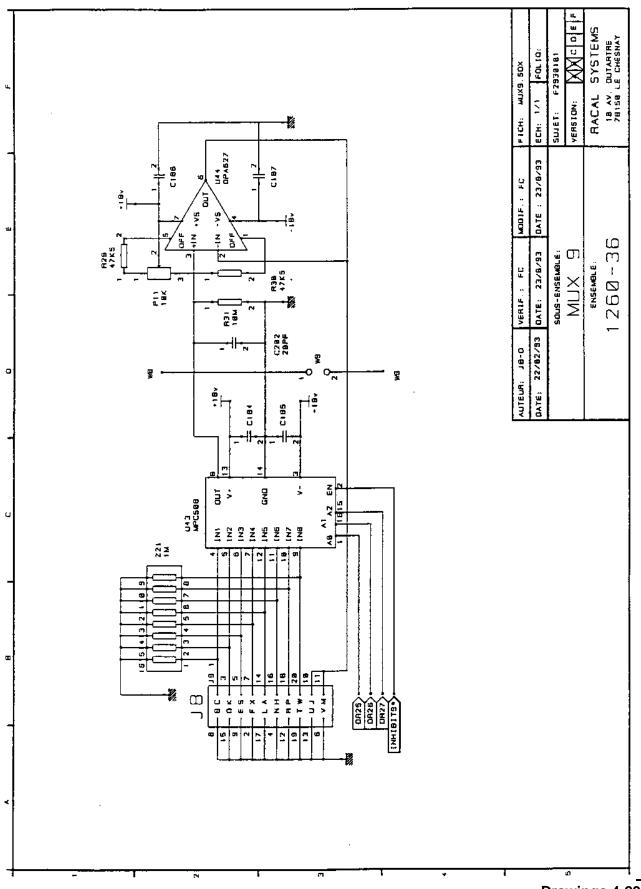


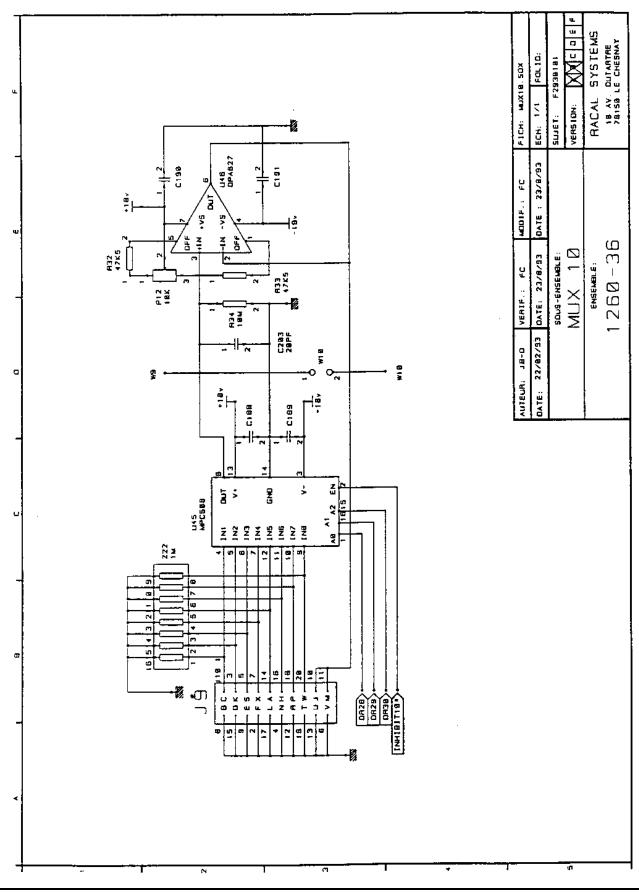
Drawings 4-26



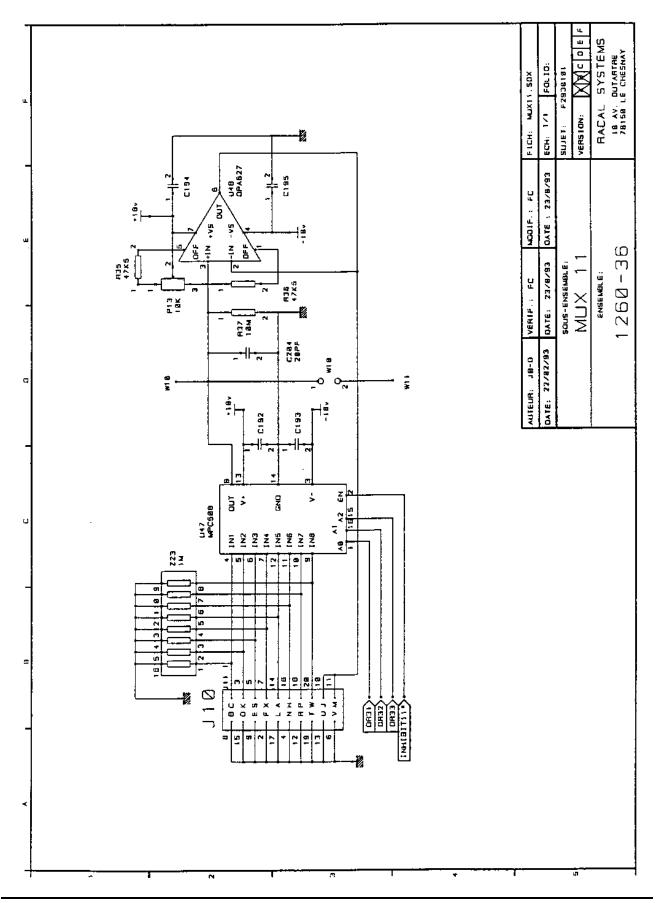


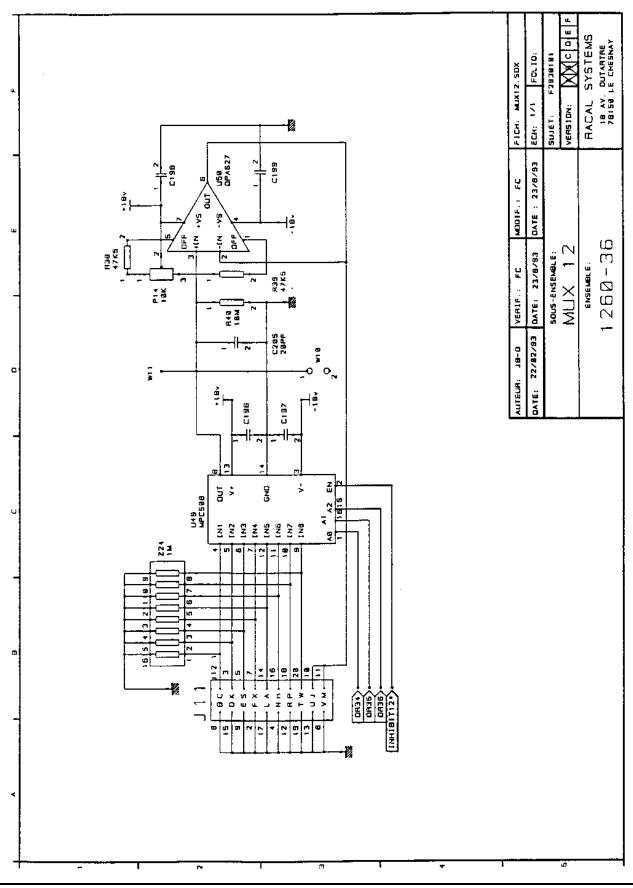
Drawings 4-28





Drawings 4-30





Drawings 4-32

Chapter 5 PARTS LIST

FS930194	Final Assembly, 1260-36	5-3
FS930100	Shipping Kit, 1260-36	5-3

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REF. DESIGN	RACAL-DANA P/N	DESCRIPTION	MANUFACTURER	MANUFACTURER'S P/N	μ
08	129 301 002	PCB ASSY., 1260-36	SOFRA-PCB	F5930101-C: 6230	-
ĘP	129 301 001	PCB ASSY., 1260-36D	SOFRA-PCB	F5930102-B:4725	-
HEB	809 301 001	FRONT PANEL	NETAL	F8930104-D	-
HET	680 000 007	HANDLE, EXTRACTOR, BOTTOM	SCHROFF	20817-327	-
нкт	680 000 006	HANDLE, EXTRACTOR, TOP	SCHROFF	20817-328	-
LCS	680 000 008	MOUNTING HARDWARE, HANDLE	SCHROFF	21100-745	-
LSVR	490 000 002	HARDWARE KIT TO220	COMATEL	4880 TO220	2
۲۸۱	809 301 002	LABEL, CAUTION, STATIC	RSE	F9930104-003	-
MB	809 301 003	LABEL SET, VXI, PACAL-DANA	RSE	F9930104-004	-
HHW	809 301 004	LABEL, VXI, 1260-36	RSE	F9930104-002	-
PSR	456239-002	PANEL, VXI BOTTOM	RACAL US	456239-002	-
PVT	456238-002	PANEL, VXI TOP	RACAL US	456238-002	-
STDI	809 301 005	STANDOFFS	NETAL	F8930105-4.3	2
STD2	809 301 006	STANDOFFS	NETAL	F8930105-7.8	9
STD3	809 301 007	STANDOFFS	NETAL	F8930105-19	-
STD2	809 301 008	SPACER	NETAL	F8930106-1A	-

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FS930100 SHIPPING KIT, 1260-36

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REF. DESIGN	RACAL-DANA P.N	DESCRIPTION	MANUFACTURER	MANUFACTURER'S P/N	ату
MJ1 to MJ12	149 301 001	CONNECTOR MALE, 20 PIN, + COVER	POSITRONIC	SGM20MSCE100J0	12
PAC	94VX10001	PACKAGING	REAL PACK		1
UM	939 301 001	USER MANUAL	RSE		-

					Ę
REF. DESIGN	RACAL-DANA P/N	DESCHIPTION	MANUFACIUHEH	MANUFACIUNENS F/N	
C1 to C12	330 000 006	CAP. TANTA., 6.8µF. 35V, 20%	AVX	6,8µF/35V	5
C170 to C175, C200 to C205	380 000 016	CAP. CERAM., 22pF/25V, SMD, 0805	AVX	22pF/25V	ũ
C97 to C199, C103	380 000 001	CAP. CERAM., 100nF/25V, SMD, 1206	AVX	100nF/25V	102
CX1 to CX3	380 000 999	CAP. CERAM., 1nF/1kV	MURATA / RS	DE805-979B102K2K	en
НР1,НР2	490 000 004	HEAT SINK	REDPOINT	TV1500	~
J1 to J12	149 301 002	CONNECTOR PCB, 20 PIN, SMPL20	POSITRONIC	SMPL20F0T0LB	5
S	859 301 001	SCREW, CONNECTOR SMPL20	POSITRONIC	2074-7-0-17	24
J200	149 301 003	CONNECTOR, 34 PINS	FUJISTSU	FCN-747B034-AU/0 : 115-9298	-
J3ABC,J4ABC	140 002 132	CONNECTOR, BOARD TO BOARD, 1X32	PRECIDIP	310-91-132-41-001-000	9
JW1 to JW1, JWA	149 301 004	CONNECTOR, RIGHT ANGLE, 2 PIN	AMP	5-826947-0	13
L1,L3,L4	530 000 002	CERAMIC FILTER 222M 250V	MURATA	DSS310H-55B222M250	6
F1	170 000 003	DELAYED FUSE 5A SMD	SCHURTER	3402.0017.11	
F2,F3	170 000 004	DELAYED FUSE 1.6A SMD	SCHURTER	3402.0011.11	2
L.J.1	401 951	PCB ASSY, LBUS JUMPER	RACAL US	401951	-
1,11		OPTION 01 FOR 1260	RACAL US	OU 1260-01	-
P1,P2	140 096 096	C SIZE DIN 41612 CONNECTOR 96/96	HARTING	09 03 196 6921	N
P200	149 301 011	CONNECTOR, RIGHT ANGLE, 34 PIN	HARTING	09 18 534 6913	-
POT1,POT2	219 301 001	POTENTIOMETER, 1 TURN, 2000	BECKMAN IND.	25PR200	N
POT3 to POT14	219 301 002	POTENTIOMETER, 25 T., 100ppm/°C, 10K0	BOURNS	3296P103	ş
PWA	149 301 005	COAX. LINKER	3M ELEC.	982323-017-011.9	0,5
R1,R4	229 301 001	RESISTOR 82,50, 25W, 1%	SPRAGUE	82,5Ω	2
R2,R3	220 200 101	RESISTOR 1kg, 25W, 1%	SPRAGUE	102	2
R24,26,27,29,30,32,33,35,36,38,39	229 301 002	RESISTOR 47.5k0, 1%, 50ppm/°C	PHILIPS COMP.	MRS25 4752	24
R5,6,8,9,11,12,14,15,17,18,20,21,23,	229 301 002	RESISTOR 47.5k0, 1%, 50ppm/°C	PHILIPS COMP.	MRS25 4752	
R7,10,13,16,19,22,25,28,31,34,37,40	239 301 001	RESISTOR 10MΩ, 25W	PHILIPS COMP.	SFR25 106	5
SW1,2,3	140 020 000	SWITCH, DIP 6 POS. LOW PROFILE	RS / APEM	132-2834 : IK 06	0
1200	149 301 006	TRANSITION CONNECTOR, 34 PINS	RS	145-0096	-
TP1 to TP5	149 301 010	TEST POINTS	RS	20-2137D / 101-2391	S
01,5,9,13,17,21,61,62	470HCT164	IC, SHIFT REGISTER, 74HCT164, SMD	PHILIPS COMP.	PC74HCT164D	8
U2,6,10,14,18,22	470HCT273	IC, DIGITAL, FLIP FLOP, 74HCT273, SMD	PHILIPS COMP.	PC74HCT273D	9
U25	4200LM317	IC, VOLT, REGULATOR, LM317	MOTOROLA	LM317T	-
U26	4200LM337	IC, VOLT. REGULATOR, LM337	MOTOROLA	LM337T	-

U27,29,31,33,35,37,39,41,43,45,47,49	42MPC508A	IC, ANALOG, MUX., MPC508AP	BURR BROWN	MPC508AP	12
U28,30,32,34,36,38,40,42,44,46,48,50	420PA627A	IC, ANALOG, OP. AMP., OPA627AP/BP	BURR BROWN	OPA627AP/BP	12
U4,8,12,16,20,24,60	470HCT166	IC, 8 BIT PAR/SER. S.R., 74HCT 166, SMD	PHILIPS COMP.	PC74HCT166D	7
U54	4700LS138	IC, DEMUX DECODER, 74LS138, SMD	SIGNETICS	N74LS138D	-
USE	4700HCT85	IC, 4 BIT COMPARATOR, 74HCT85, SMD	PHILIPS COMP.	PC74HCT85D	-
U57	4700LM339	IC, QUAD COMPARATOR, LM339, SMD	MOTOROLA	LM339D	-
070	470 001 6L8	IC, PROGRAMMED PLA, SMD, PLCC 20	TEXAS INSTR.	16LB-25CFN	***
US3	470 001 6R4	IC, PROGRAMMED PLA, SMD, PLCC 20	TEXAS INSTR.	16R4-15CFN	-
721,272	470HCT253	IC, MULTIPLEXER, 74HCT253, SMD	MOTOROLA	74HCT253D	2
U73,74	47026LS32	IC, QUAD DIFF, RECEIVER, 26LS32, SMD	TEXAS INSTR.	AM26LS32ACD	N
U75	47026LS31	IC, DIGITAL, LINE DRIVER, 26LS31, SMD	NATIONAL SEM.	DS26LS31MN	-
U76	470 022 V10	IC, PROGRAMMED PLA, SMD, PLCC 28	LATTICE	GAL22V10	
U78,79,80	4700HCT08	IC, GUAD AND, 74HCT08, SMD	MOTOROLA	74HCT08	n
W1 to W11	149 301 007	PLUG JUMPER, LOW PROFILE	AMP	142270-1	-
W200	149 301 008	FLAT CABLE, 34 WIRES, AWG 28, 5 M	ЯS	126-3094	-
WA	149 301 009	CONNECTOR COAX. PCB	ATI	22204-131	-
Z13 to Z24	239 301 002	RESISTOR ARRAY BX1MD	BECKMAN IND.	898-3-R1M	ş
Z2,4,6,8,10,12,28	280 000 005	RESISTOR ARRAY, 8x10k0, SMD	BECKMAN IND.	628A103J	~
227	280 000 007	RESISTOR ARRAY, 8x15k0, SMD	BECKMAN IND.	628A153J	-

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Chapter 6 OPTIONAL HARNESS ASSEMBLIES

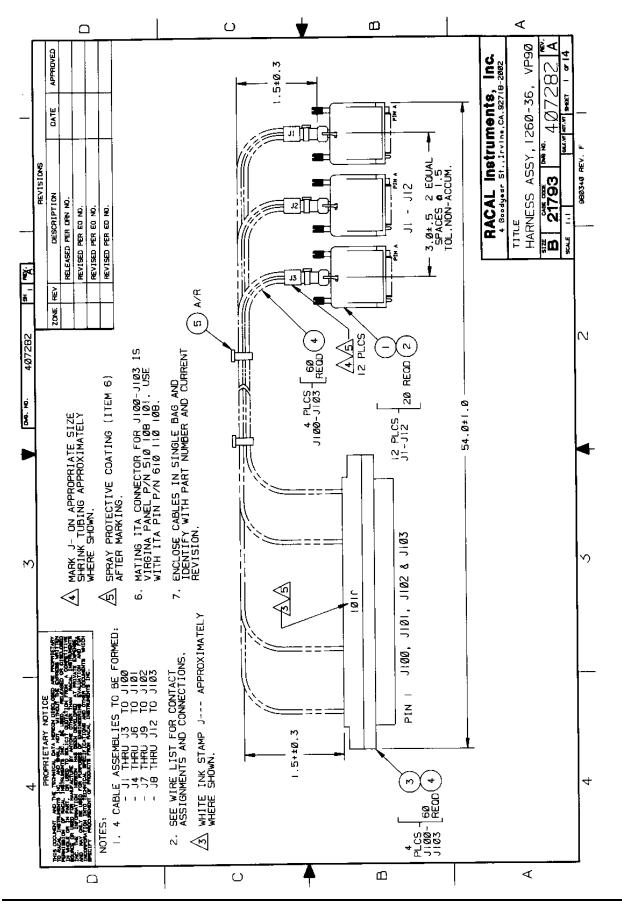
The following harness assemblies are used to connect Racal Instruments Model 1260-36 to Freedom Series Test Receiver Interfaces.

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

- 407282 Virginia Panel, Inc. Series VP90 Interface Harness
- 407283 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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Optional Harness Assemblies 6-3

ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DÉ	SCRIPTION	QTY	REFERE	ENCE
1		601855-020	CON-CAB-PL	G20CP	12	J1-J12	
		602092-001	CONT SGMC	MALE, CRIMP	240	W/J1-J12	
2		602201-001		.G064CD-VP90	4	J100-J103	
4		602201-806		,SIGNAL,24AWG,60"	240	W/J100-J103	
5		610777	TIE-CA-LKG		A/R		
6		910541		IANE CONF. COAT	A/R	· · · ·	
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	nakn	ESS ASSY, 1260	-30, VP90	DRN	1	SHEET 2 of	of 14

WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFERENCE
-	BLK AA (J100)	Uxx-SLOT yy (J1-J3)	CABLE	407282		SYSTEM WIRE LIST
	BLK AA	Uxx-SLOT yy	CABLE	407282		
	(J101) BLK AA	(J4-J6) Uxx-SLOT yy	CABLE	407282		
	(J102)	(J7-J9)		1		
	BLK AA	Uxx-SLOT yy (J10-J12)	CABLE	407282		
	(J103)					
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	th do	his system wirelis is harness assem bes not in any wa sembly.	bly into the	overall syste	m wirelist	. it
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	DOCUMEN	Inc., 4 Goodyear	SIZE	CA 92718 CODE NO. 21793	DOCL	

WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	ENCE	
1	J100-1 (602201-001)	J1-C 602092-001	24AWG WHT	602201- 806	54"	GRP 1, IN 1		
2	J100-33	J1-A	24AWG	602201-	54"	GRP 1, IN 5		
2		602092-001	WHT	806		OKP 1, IN 5		
	(602201-001)		24AWG	602201-	54"	GRP 1, GND		
3	J100-2	JI-B	WHT		54	OKP 1, OND		
	(602201-001)	602092-001	24AWG	806 602201-	54"	GRP I, GND		
4	J100-34	J1-D			54	GRP 1, GND		
	(602201-001)	602092-001	WHT	806	54"	CDD L CMD		
5	J100-3	JI-E	24AWG	602201-	54	GRP 1, GND		
	(602201-001)	602092-001	WHT	806	54"	CDD L CNTD		
6	J100-35	JI-F	24AWG	602201-	54	GRP 1, GND		
	(602201-001)	602092-001	WHT	806		000 (1110		
7	J100-4	J1-K	24AWG	602201-	54"	GRP 1, IN 2		
	(602201-001)	602092-001	WHT	806				
8	J100-36	J1- H	24AWG	602201-	54"	GRP I, IN 6		
	(602201-001)	602092-001	WHT	806	L			
9	J100-5	J1-J	24AWG	602201-	54"	GRP 1, OUT		
	(602201-001)	602092-001	WHT	806	ļ	<u>_</u>		
10	J100-37	JI-L	24AWG	602201-	54"	GRP 1, GND		
	(602201-001)	602092-001	WHT	806	<u> </u>	ļ		
11	J100-6	J1-N	24AWG	602201-	54"	GRP I, GND		
	(602201-001)	602092-001	WHT	806				
12	J100-38	J1-M	24AWG	602201-	54"	GRP 1, OUT		
	(602201-001)	602092-001	WHT	806			·	
13	J100-7	JI-S	24AWG	602201-	54"	GRP 1, IN 3		
	(602201-001)	602092-001	WHT	806	1			
14	J100-39	J1-P	24AWG	602201-	54"	GRP 1, IN 7		
• ·	(602201-001)	602092-001	WHT	806				
15	J100-8	J1-R	24AWG	602201-	54"	GRP 1, GND		
10	(602201-001)	602092-001	WHT	806		,		
16	J100-40	JI-T	24AWG	602201-	54"	GRP 1, GND		
10	(602201-001)	602092-001	WHT	806		1		
17	J100-9	JI-U	24AWG	602201-	54"	GRP 1, GND		
.,	(602201-001)	602092-001	WHT	806	1			
18	J100-41	J1-V	24AWG	602201-	54"	GRP 1, GND		
10	(602201-001)	602092-001	WHT	806	51			
10	J100-10	J1-X	24AWG	602201-	54"	GRP 1, IN 4		
19	1		WHT	806	1 7			
20	(602201-001)	602092-001	24AWG	602201-	54"	GRP 1, IN 8	<u> </u>	
20	J100-42	J1-W			, , , , , , , , , , , , , , , , , , ,			
	(602201-001)	602092-001	WHT	806	·†	1		
							<u>.</u>	
21	J100-11	J2-C	24AWG	602201-	54"	GRP 2, IN 1		
	(602201-001)	602092-001	WHT	806				
22	J100-43	J2-A	24AWG	602201-	54"	GRP 2, IN 5		
	(602201-001)	602092-001	WHT	806				
23	J100-12	J2-B	24AWG	602201-	54"	GRP 2, GND		
	(602201-001)	602092-001	WHT	806				
24	J100-44	J2-D	24AWG	602201-	54"	GRP 2, GND		
	(602201-001)	602092-001	WHT	806				
RACA		Inc., 4 Goodyear	St., Irvine,	CA 92718				
	DOCUMEN		SIZE	CODE NO.		MENT NO.	REV	
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HAG	NESS ASSEMB	LY, 1260-36, VP9	0 DRN			SHEET 4 o	c 1 A	

WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFEI	ENCE
25	J100-13 (602201-001)	J2-E 602092-001	24AWG WHT	602201- 806	54"	GRP 2, GND	
26	J100-45	J2-F 602092-001	24AWG WHT	602201- 806	54"	GRP 2, GND	
27	(602201-001) J100-14	J2-K	24AWG	602201-	54"	GRP 2, IN 2	
28	(602201-001) J100-46	602092-001 J2-H	WHT 24AWG	806 602201-	54"	GRP 2, IN 6	
29	(602201-001) J100-15	602092-001 J2-J	WHT 24AWG	806 602201-	54"	GRP 2, OUT	
30	(602201-001) J100-47	602092-001 J2-L	WHT 24AWG	806 602201-	54"	GRP 2, GND	
31	(602201-001) J100-16	602092-001 J2-N	WHT 24AWG	806 602201-	54"	GRP 2, GND	
32	(602201-001) J100-48	602092-001 J2-M	WHT 24AWG	806 602201-	54"	GRP 2, OUT	,
33	(602201-001) J100-17	602092-001 J2-S	WHT 24AWG	806 602201-	54"	GRP 2, IN 3	
34	(602201-001) J100-49	602092-001 J2-P	WHT 24AWG	806	54"	GRP 2, IN 7	
35	(602201-001) J100-18	602092-001 J2-R	WHT 24AWG	806	54"	GRP 2, GND	
	(602201-001) 1100-50	602092-001 J2-T	WHT 24AWG	806 602201-	54"	GRP 2, GND	
36	(602201-001)	602092-001	WHT	806	54"	GRP 2, GND	
37	J100-19 (602201-001)	J2-U 602092-001	24AWG WHT	602201- 806			·
38	J100-51 (602201-001)	J2-V 602092-001	24AWG WHT	602201- 806	54"	GRP 2, GND	
39	J100-20 (602201-001)	J2-X 602092-001	24AWG WHT	602201- 806	54"	GRP 2, IN 4	
40	J100-52 (602201-001)	J2-W 602092-001	24AWG WHT	602201- 806	54"	GRP 2, IN 8	<u></u>
41	J100-21	J3-C	24AWG	602201-	54"	GRP 3, IN 1	
42	(602201-001) J100-53	602092-001 J3-A	WHT 24AWG	806 602201-	54"	GRP 3, IN 5	
43	(602201-001) J100-22	602092-001 J3-B	WHT 24AWG	806 602201-	54"	GRP 3, GND	. <u>.</u>
44	(602201-001) J100-54	602092-001 J3-D	WHT 24AWG	806	54"	GRP 3, GND	57
45	(602201-001) J100-23	602092-001 J3-E	WHT 24AWG	806 602201-	54"	GRP 3, GND	
46	(602201-001) J100-55	602092-001 J3-F	WHT 24AWG	806 602201-	54"	GRP 3, GND	
47	(602201-001) J100-24	602092-001 J3-K	WHT 24AWG	806 602201-	54"	GRP 3, IN 2	,
48	(602201-001) J100-56	602092-001 J3-H	WHT 24AWG	806 602201-	54"	GRP 3, IN 6	
	(602201-001)	602092-001 Inc., 4 Goodyear	WHT	806 CA 92718	<u> </u>		
10 101	DOCUMEN		SIZE	CODE NO.	DOCU	MENT NO.	REV
	DOCUMEN		A	21793		07282	A
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFE	RENCE
49	J100-25 (602201-001)	J3-J 602092-001	24AWG WHT	602201- 806	54"	GRP 3, OUT	
50	J100-57 (602201-001)	J3-L 602092-001	24AWG WHT	602201- 806	54"	GRP 3, GND	- //
51	J100-26 (602201-001)	J3-N 602092-001	24AWG WHT	602201- 806	54"	GRP 3, GND	
52	J100-58 (602201-001)	J3-M 602092-001	24AWG WHT	602201- 806	54"	GRP 3, OUT	
53	J100-27 (602201-001)	J3-S 602092-001	24AWG WHT	602201- 806	54*	GRP 3, IN 3	
54	J100-59 (602201-001)	J3-P 602092-001	24AWG WHT	602201- 806	54"	GRP 3, IN 7	
55	J100-28 (602201-001)	J3-R 602092-001	24AWG WHT	602201- 806	54"	GRP 3, GND	
56	J100-60 (602201-001)	J3-T 602092-001	24AWG WHT	602201- 806	54"	GRP 3, GND	
57	J100-29 (602201-001)	J3-U 602092-001	24AWG WHT	602201- 806	54"	GRP 3, GND	
58	J100-61 (602201-001)	J3-V 602092-001	24AWG WHT	602201- 806	54"	GRP 3, GND	
59	J100-30 (602201-001)	J3-X 602092-001	24AWG WHT	602201- 806	54"	GRP 3, IN 4	
60	J100-62 (602201-001)	J3-W 602092-001	24AWG WHT	602201- 806	54"	GRP 3, IN 8	
61	J100-31 NO CONNECT						
62	J100-63 NO CONNECT						
63	J100-32 NO CONNECT						
64	J100-64 NO CONNECT						
65	J101-1 (602201-001)	J4-C 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 1	
66	J101-33 (602201-001)	J4-A 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 5	
67	J101-2 (602201-001)	J4-B 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
68	J101-34 (602201-001)	J4-D 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
69	J101-3 (602201-001)	J4-E 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
70	J101-35 (602201-001)	J4-F 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
71	J101-4 (602201-001)	J4-K 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 2	
72	J101-36 (602201-001)	J4-H 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 6	
<u>RAC</u> A	L Instruments, I	nc., 4 Goodyear S	t., Irvine, (A 92718			
	DOCUMEN		SIZE	CODE NO.	DOCU	MENT NO.	REV
			A	21793		07282	A
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFE	RENCE
73	J101-5 (602201-001)	J4-J 602092-001	24AWG WHT	602201- 806	54"	GRP 4, OUT	
74	J101-37 (602201-001)	J4-L 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
75	J101-6 (602201-001)	J4-N 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
76	J101-38 (602201-001)	J4-M 602092-001	24AWG WHT	602201- 806	54"	GRP 4, OUT	
77	J101-7 (602201-001)	J4-S 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 3	
78	J101-39 (602201-001)	J4-P 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 7	
79	J101-8 (602201-001)	J4-R 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
80	J101-40 (602201-001)	J4-T 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
81	J101-9 (602201-001)	J4-U 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
82	J101-41 (602201-001)	J4-V 602092-001	24AWG WHT	602201- 806	54"	GRP 4, GND	
83	J101-10 (602201-001)	J4-X 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 4	
84	J101-42 (602201-001)	J4-W 602092-001	24AWG WHT	602201- 806	54"	GRP 4, IN 8	
85	J101-11 (602201-001)	J5-C 602092-001	24AWG WHT	602201- 806	54"	GRP 5, IN 1	
86	J101-43 (602201-001)	J5-A 602092-001	24AWG WHT	602201- 806	54"	GRP 5, IN 5	
87	J101-12 (602201-001)	J5-B 602092-001	24AWG WHT	602201- 806	54"	GRP 5, GND	
88	J101-44 (602201-001)	J5-D 602092-001	24AWG WHT	602201- 806	54"	GRP 5, GND	
89	J101-13 (602201-001)	J5-E 602092-001	24AWG WHT	602201- 806	54"	GRP 5, GND	
90	J101-45 (602201-001)	J5-F 602092-001	24AWG WHT	602201- 806	54"	GRP 5, GND	
91	J101-14 (602201-001)	J5-K 602092-001	24AWG WHT	602201- 806	54"	GRP 5, IN 2	
92	J101-46 (602201-001)	J5-H 602092-001	24AWG WHT	602201- 806	54"	GRP 5, IN 6	
93	J101-15 (602201-001)	J5-J 602092-001	24AWG WHT	602201- 806	54"	GRP 5, OUT	
94	J101-47 (602201-001)	J5-L 602092-001	24AWG WHT	602201- 806	54"	GRP 5, GND	
95	J101-16 (602201-001)	J5-N 602092-001	24AWG WHT	602201- 806	54"	GRP 5, GND	
96	J101-48 (602201-001)	J5-M 602092-001	24AWG WHT	602201- 806	54"	GRP 5, OUT	
KACA		Inc., 4 Goodyear		CA 92718			DEV
	DOCUMEN	IT ITTLE	SIZE	CODE NO.		MENT NO.	REV
		LY, 1260-36, VP9	. A	21793	4	07282	A

WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	ENCE
97	J101-17 (602201-001)	J5-S 602092-001	24AWG WHT	602201- 806	54"	GRP 5, IN 3	
98	J101-49	J5-P 602092-001	24AWG WHT	602201- 806	54"	GRP 5, IN 7	
99	(602201-001) J101-18	J5-R	24AWG	602201-	54"	GRP 5, GND	
100	(602201-001) J101-50	602092-001 J5-T	WHT 24AWG	806 602201-	54"	GRP 5, GND	
101	(602201-001) J101-19	602092-001 J5-U	WHT 24AWG	806 602201-	54"	GRP 5, GND	
102	(602201-001) J101-51	602092-001 J5-V	WHT 24AWG	806 602201-	54"	GRP 5, GND	<u> </u>
103	(602201-001) J101-20	602092-001 J5-X	WHT 24AWG	806 602201-	54"	GRP 5, IN 4	
104	(602201-001) J101-52	602092-001 J5-W	WHT 24AWG	806 602201-	54"	GRP 5, IN 8	
	(602201-001)	602092-001	WHT	806			
105	J101-21 (602201-001)	J6-C 602092-001	24AWG WHT	602201- 806	54"	GRP 6, IN 1	
106	J101-53 (602201-001)	J6-A 602092-001	24AWG WHT	602201- 806	54"	GRP 6, IN 5	
107	J101-22	J6-B 602092-001	24AWG WHT	602201- 806	54"	GRP 6, GND	
108	(602201-001) J101-54 (602201-001)	J6-D 602092-001	24AWG WHT	602201- 806	54"	GRP 6, GND	
109	(602201-001) J101-23	J6-E 602092-001	24AWG WHT	602201- 806	54"	GRP 6, GND	
110	(602201-001) J101-55	J6-F 602092-001	24AWG WHT	602201-	54"	GRP 6, GND	
111	(602201-001) J101-24	J6-K	24AWG WHT	602201- 806	54"	GRP 6, IN 2	
112	(602201-001) J101-56	602092-001 J6-H	24AWG	602201-	54"	GRP 6, IN 6	<u>.</u>
113	(602201-001) J101-25	602092-001 J6-J	WHT 24AWG	602201-	54"	GRP 6, OUT	<u></u>
114	(602201-001) J101-57	602092-001 J6-L	24AWG	806 602201- 806	54"	GRP 6, GND	
115	(602201-001) J101-26	602092-001 J6-N	WHT 24AWG	602201- 806	54"	GRP 6, GND	
116	(602201-001) J101-58	602092-001 J6-M	WHT 24AWG	602201-	54"	GRP 6, OUT	
117	(602201-001) J101-27	602092-001 J6-S 602002-001	WHT 24AWG	806 602201- 806	54"	GRP 6, IN 3	<u> </u>
118	(602201-001) J101-59	602092-001 J6-P	24AWG	602201-	54"	GRP 6, IN 7	
119	(602201-001) J101-28	602092-001 J6-R	24AWG	<u>806</u> 602201-	54"	GRP 6, GND	
120	(602201-001) J101-60	602092-001 J6-T	WHT 24AWG	806 602201-	54"	GRP 6, GND	
	(602201-001)	602092-001	WHT	806 CA 92718			
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WIRE	FROM	то	ТҮРЕ	PART #	WIRE LEN	REFERENCE	
121	J101-29 (602201-001)	J6-U 602092-001	24AWG WHT	602201- 806	54"	GRP 6, GND	
122	J101-61	J6-V 602092-001	24AWG WHT	602201- 806	54"	GRP 6, GND	
123	(602201-001) J101-30 (602201-001)	J6-X 602092-001	24AWG WHT	602201- 806	54"	GRP 6, IN 4	
124	(602201-001) J101-62 (602201-001)	J6-W 602092-001	24AWG WHT	602201- 806	54"	GRP 6, IN 8	
125	JI01-31 NO CONNECT	002072-001		000			
126	J101-63 NO CONNECT				<u> </u>		
127	J101-32 NO CONNECT		,				
128	J101-64 NO CONNECT	*					
				(0000)	(A)	CDD 7 DV 1	. .
129	J102-1 (602201-001)	J7-C 602092-001	24AWG WHT	602201- 806	54"	GRP 7, IN 1	<u> </u>
130	J102-33 (602201-001)	J7-A 602092-001	24AWG WHT	602201- 806	54"	GRP 7, IN 5	<u></u>
131	J102-2 (602201-001)	J7-B 602092-001	24AWG WHT	602201- 806	54"	GRP 7, GND	
132	J102-34 (602201-001)	J7-D 602092-001	24AWG WHT	602201- 806	54"	GRP 7, GND	
133	J102-3 (602201-001)	J7-E 602092-001	24AWG WHT	602201- 806	54"	GRP 7, GND	,
134	J102-35 (602201-001)	J7-F 602092-001	24AWG WHT	602201- 806	54"	GRP 7, GND	
135	J102-4 (602201-001)	J7-K 602092-001	24AWG WHT	602201- 806	54"	GRP 7, IN 2	- u-
136	J102-36 (602201-001)	J7-H 602092-001	24AWG WHT	602201- 806	54"	GRP 7, IN 6	
137	J102-5 (602201-001)	J7-J 602092-001	24AWG WHT	602201- 806	54"	GRP 7, OUT	
138	J102-37 (602201-001)	J7-L 602092-001	24AWG	602201- 806	54"	GRP 7, GND	
139	J102-6 (602201-001)	J7-N 602092-001	24AWG WHT	602201- 806	54"	GRP 7, GND GRP 7, OUT	
140	J102-38 (602201-001)	J7-M 602092-001	24AWG WHT	602201- 806	54"	GRP 7, OU1	
141	J102-7 (602201-001)	J7-S 602092-001	24AWG WHT	602201- 806	54"	GRP 7, IN 3	<u></u>
142	J102-39 (602201-001)	J7-P 602092-001	24AWG WHT	602201- 806 602201-	54"	GRP 7, IN 7 GRP 7, GND	
143	J102-8 (602201-001)	J7-R 602092-001	24AWG WHT 24AWG	806 602201-	54"	GRP 7, GND	
144	J102-40 (602201-001)	J7-T 602092-001 Inc., 4 Goodyear S	WHT	806 CA 92718	J4		
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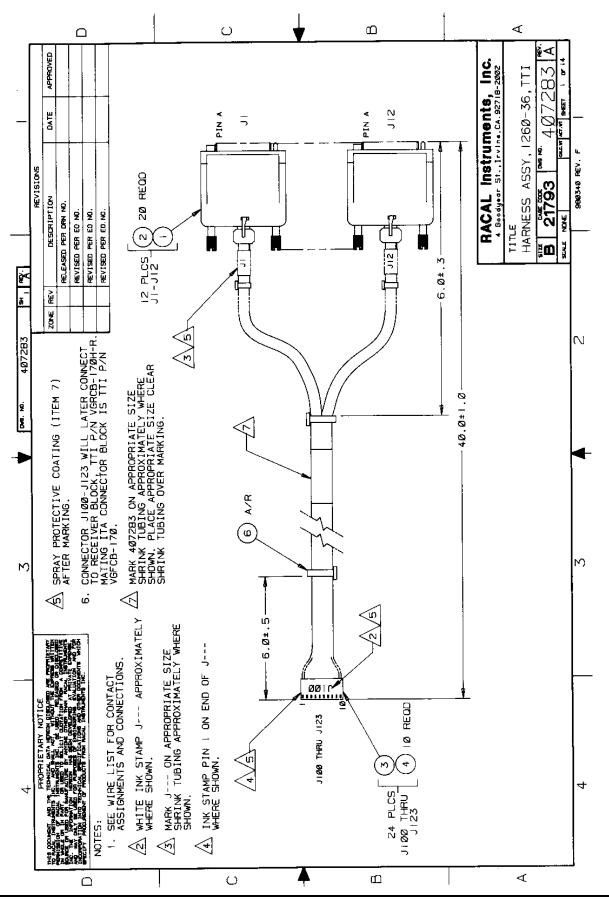
WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFERENCE	
145	J102-9 (602201-001)	J7-U 602092-001	24AWG WHT	602201- 806	54"	GRP 7, GND	
146 147	J102-41	J7-V	24AWG	602201-	54"	GRP 7, GND	· · ·
	(602201-001)	602092-001	WHT	806			
	J102-10	J7-X	24AWG	602201-	54"	GRP 7, IN 4	
14,	(602201-001)	602092-001	WHT	806			
148	J102-42	J7-W	24AWG	602201-	54"	GRP 7, IN 8	
140	(602201-001)	602092-001	WHT	806			
149	J102-11	J8-C	24AWG	602201-	54"	GRP 8, IN 1	
	(602201-001)	602092-001	WHT	806			<u> </u>
150	J102-43	J8-A	24AWG	602201-	54"	GRP 8, IN 5	
	(602201-001)	602092-001	WHT	806	<u> </u>		
151	J102-12	J8-B	24AWG	602201-	54"	GRP 8, GND	
	(602201-001)	602092-001	WHT	806			
152	J102-44	J8-D	24AWG	602201-	54"	GRP 8, GND	
	(602201-001)	602092-001	WHT	806		1	
153	J102-13	J8-E	24AWG	602201-	54"	GRP 8, GND	
	(602201-001)	602092-001	WHT	806			
154	J102-45	J8-F	24AWG	602201-	54"	GRP 8, GND	
	(602201-001)	602092-001	WHT	806			
155	J102-14	J8-K	24AWG	602201-	54"	GRP 8, IN 2	
155	(602201-001)	602092-001	WHT	806			
156	J102-46	J8-H	24AWG	602201-	54"	GRP 8, IN 6	
100	(602201-001)	602092-001	WHT	806			
157	J102-15	J8-J	24AWG	602201-	54"	GRP 8, OUT	
•	(602201-001)	602092-001	WHT	806			
158	J102-47	J8-L	24AWG	602201-	54"	GRP 8, GND	
	(602201-001)	602092-001	WHT	806			
159	J102-16		24AWG	602201-	54"	GRP 8, GND	
1.77	(602201-001)	602092-001	WHT	806			
160	J102-48		24AWG	602201-	54"	GRP 8, OUT	
100	(602201-001)	602092-001	WHT	806			
161	J102-17	002092-001 J8-S		602201-	54"	GRP 8, IN 3	
101	(602201-001)	602092-001	WHT	806			
162	J102-49	J8-P	24AWG	602201-	54"	GRP 8, IN 7	
102		602092-001	WHT	806	.		
162	(602201-001)		24AWG	602201-	54"	GRP 8, GND	
163	J102-18	J8-R		806) ³⁴	UNE 0, UND	
16	(602201-001)	602092-001	WHT		54"	GRP 8, GND	<u>.</u>
164	J102-50	J8-T	24AWG	602201-	⁵⁴	UKP 8, UND	
	(602201-001)	602092-001	WHT	806	E 417	CBD & CMD	·
165	J102-19	J8-U	24AWG	602201-	54"	GRP 8, GND	
	(602201-001)	602092-001	WHT	806	E 412	CDD 8 CDTD	<u></u>
166	J102-51	J8-V	24AWG	602201-	54"	GRP 8, GND	
	(602201-001)	602092-001	WHT	806	+- <u></u>		
167	J102-20	J8-X	24AWG	602201-	54"	GRP 8, IN 4	
	(602201-001)	602092-001	WHT	806	<u> </u>		
168	J102-52	J8-W	24AWG	602201-	54"	GRP 8, IN 8	
	(602201-001)	602092-001	WHT	806			
RACA		Inc., 4 Goodyean		CA 92718	~~		
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFERE	NCE
169	J102-21	J9-C	24AWG	602201-	54"	GRP 9, IN 1	
<u></u>	(602201-001)	602092-001	WHT	806		CDD C DUS	
170	J102-53	J9-A	24AWG	602201-	54"	GRP 9, IN 5	
	(602201-001)	602092-001	WHT	806	54"	GRP 9. GND	
171	J102-22	J9-B	24AWG	602201-	54	GRP 9, GND	
180	(602201-001)	602092-001	24AWG	806	54"	GRP 9, GND	
172	J102-54 (602201-001)	602092-001	WHT	806	54		
173	J102-23	J9-E	24AWG	602201-	54"	GRP 9, GND	
175	(602201-001)	602092-001	WHT	806	5,		
174	J102-55	J9-F	24AWG	602201-	54"	GRP 9, GND	
1/4	(602201-001)	602092-001	WHT	806	1 -		
175	J102-24	J9-K	24AWG	602201-	54"	GRP 9, IN 2	
	(602201-001)	602092-001	WHT	806			
176	J102-56	J9-H	24AWG	602201-	54"	GRP 9, IN 6	
	(602201-001)	602092-001	WHT	806			
177	J102-25	J9-J	24AWG	602201-	54"	GRP 9, OUT	
	(602201-001)	602092-001	WHT	806	1	ļ	. <u> </u>
178	J102-57	J9-L	24AWG	602201-	54"	GRP 9, GND	
	(602201-001)	602092-001	WHT	806			
179	J102-26	J9-N	24AWG	602201-	54"	GRP 9, GND	
	(602201-001)	602092-001	WHT	806			
180	J102-58	J9-M	24AWG	602201-	54"	GRP 9, OUT	
	(602201-001)	602092-001	WHT	806			<u>.</u>
181	J102-27	J9-S	24AWG	602201-	54"	GRP 9, IN 3	
	(602201-001)	602092-001	WHT	806	54"	CODO DUZ	
182	J102-59	J9-P	24AWG	602201-	54	GRP 9, IN 7	
	(602201-001)	602092-001	WHT 24AWG	806	54"	GRP 9, GND	
183	J102-28	J9-R	WHT	802201-	34		
10.4	(602201-001)	602092-001 J9-T		602201-	54"	GRP 9, GND	
184	J102-60	602092-001	WHT	806	54		
105	(602201-001) J102-29	J9-U		602201-	54"	GRP 9, GND	
185	(602201-001)	602092-001	WHT	806	54		
186	J102-61	J9-V	24AWG	602201-	54"	GRP 9, GND	
160	(602201-001)	602092-001	WHT	806	0.		
187	J102-30	J9-X	24AWG	602201-	54"	GRP 9, IN 4	
107	(602201-001)	602092-001	WHT	806			
188	J102-62	J9-W	24AWG	602201-	54"	GRP 9, IN 8	
100	(602201-001)	602092-001	WHT	806			
189	J102-31						
	NO CONNECT						
190	J102-63				l		
	NO CONNECT						
191	J102-32						
	NO CONNECT						
192	J102-64						
	NO CONNECT						·
RACA	L Instruments, I			CA 92718			
	DOCUMEN	r title	SIZE	CODE NO.	DOCL	MENT NO.	REV
	NESS ASSEMBI		A	21793	4	07282 SHEET 11 of	A

WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	ENCE
193	J103-1	J10-C	24AWG	602201-	54"	GRP 10, IN 1	
	(602201-001)	602092-001	WHT	806	54"		
194	J103-33	J10-A	24AWG	602201-	54	GRP 10, IN 5	
105	(602201-001)	602092-001 J10-B	WHT 24AWG	806 602201-	54"	GRP 10, GND	
195	J103-2 (602201-001)	602092-001	WHT	806	_ 		
196	J103-34	J10-D	24AWG	602201-	54"	GRP 10, GND	
190	(602201-001)	602092-001	WHT	806			
197	J103-3	J10-E	24AWG	602201-	54"	GRP 10, GND	
171	(602201-001)	602092-001	WHT	806	÷.		
198	J103-35	J10-F	24AWG	602201-	54"	GRP 10, GND	
	(602201-001)	602092-001	WHT	806			
199	J103-4	J10-K	24AWG	602201-	54"	GRP 10, IN 2	
	(602201-001)	602092-001	WHT	806			
200	J103-36	J10-H	24AWG	602201-	54"	GRP 10, IN 6	
	(602201-001)	602092-001	WHT	806			
201	J103-5	J10-J	24AWG	602201-	54"	GRP 10, OUT	
	(602201-001)	602092-001	WHT	806			
202	J103-37	J10-L	24AWG	602201-	54"	GRP 10, GND	
	(602201-001)	602092-001	WHT	806			
203	J103-6	J10-N	24AWG	602201-	54"	GRP 10, GND	
	(602201-001)	602092-001	WHT	806			· · · ·
204	J103-38	J10-M	24AWG	602201-	54"	GRP 10, OUT	
	(602201-001)	602092-001	WHT	806			
205	J103-7	J10-S	24AWG	602201-	54"	GRP 10, IN 3	
	(602201-001)	602092-001	WHT	806			
206	J103-39	J10-P	24AWG	602201-	54"	GRP 10, IN 7	
	(602201-001)	602092-001	WHT	806	54"	GRP 10, GND	
207	J103-8	J10-R	24AWG		54	GRP 10, GND	
200	(602201-001)	602092-001	WHT 24AWG	806	54"	GRP 10, GND	
208	J103-40	J10-T		806	54		
200	(602201-001)	602092-001 J10-U		602201-	54"	GRP 10, GND	
209	J103-9	602092-001	WHT	806	34		
210	(602201-001) J103-41	J10-V	24AWG	602201-	54"	GRP 10, GND	
210	(602201-001)	602092-001	WHT	806			
211	J103-10	J10-X		602201-	54"	GRP 10, IN 4	
211	(602201-001)	602092-001	WHT	806			
212	J103-42		24AWG	602201-	54"	GRP 10, IN 8	
212	(602201-001)	602092-001	WHT	806	-		
	1		1				
]				
213	J103-11	J11-C	24AWG	602201-	54"	GRP 11, IN 1	
	(602201-001)	602092-001	WHT	806			·
214	J103-43	J11-A	24AWG	602201-	54"	GRP 11, IN 5	
	(602201-001)	602092-001	WHT	806			_ _
215	J103-12	J11-B	24AWG	602201-	54"	GRP 11, GND	
	(602201-001)	602092-001	WHT	806			
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	RENCE
216	J103-44 (602201-001)	J11-D 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
217	J103-13 (602201-001)	J11-E 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
218	J103-45 (602201-001)	Jt1-F 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
219	J103-14 (602201-001)	J11-K 602092-001	24AWG WHT	602201- 806	54"	GRP 11, IN 2	
220	J103-46 (602201-001)	J11-H 602092-001	24AWG WHT	602201- 806	54"	GRP 11, IN 6	
221	J103-15 (602201-001)	J11-J 602092-001	24AWG WHT	602201- 806	54"	GRP 11, OUT	
222	J103-47 (602201-001)	J11-L 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
223	J103-16 (602201-001)	J11-N 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
224	J103-48 (602201-001)	J11-M 602092-001	24AWG WHT	602201- 806	54"	GRP 11, OUT	
225	J103-17 (602201-001)	J11-S 602092-001	24AWG WHT	602201- 806	54"	GRP 11, IN 3	
226	J103-49 (602201-001)	J11-P 602092-001	24AWG WHT	602201- 806	54"	GRP 11, IN 7	
227	J103-18 (602201-001)	J11-R 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
228	J103-50 (602201-001)	J11-T 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
229	J103-19 (602201-001)	J11-U 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
230	J103-51 (602201-001)	J11-V 602092-001	24AWG WHT	602201- 806	54"	GRP 11, GND	
231	J103-20 (602201-001)	J11-X 602092-001	24AWG WHT	602201- 806	54"	GRP 11, IN 4	
232	J103-52 (602201-001)	JI1-W 602092-001	24AWG WHT	602201- 806	54"	GRP 11, IN 8	
233	J103-21 (602201-001)	J12-C 602092-001	24AWG WHT	602201- 806	54"	GRP 12, IN 1	
234	J103-53 (602201-001)	J12-A 602092-001	24AWG WHT	602201- 806	54"	GRP 12, IN 5	
235	J103-22 (602201-001)	J12-B 602092-001	24AWG WHT	602201- 806	54"	GRP 12, GND	
236	J103-54 (602201-001)	J12-D 602092-001	24AWG WHT	602201- 806	54"	GRP 12, GND	
237	J103-23 (602201-001)	J12-E 602092-001	24AWG WHT	602201- 806	54"	GRP 12, GND	
238	J103-55 (602201-001)	J12-F 602092-001	24AWG WHT	602201- 806	54"	GRP 12, GND	
239	J103-24 (602201-001)	J12-K 602092-001	24AWG WHT	602201- 806 CA 92718	54"	GRP 12, IN 2	
RACA		Inc., 4 Goodyear S			PACT	MENT NO	DEV
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WIRE	FROM	то	ТҮРЕ	PART #	WIRE LEN	REFER	RENCE
240	J103-56	J12-H	24AWG	602201-	54"	GRP 12, IN 6	
	(602201-001)	602092-001	WHT 24AWG	806	54"	GRP 12, OUT	
241	J103-25	J12-J	WHT	806	54	GRP 12, 001	
343	(602201-001)	602092-001 J12-L	24AWG	602201-	54"	GRP 12, GND	
242	J103-57		WHT	806	54		
- 242	(602201-001)	602092-001 J12-N	24AWG	602201-	54"	GRP 12, GND	
243	J103-26	602092-001	WHT	806	27		
244	(602201-001) J103-58	J12-M	24AWG	602201-	54"	GRP 12, OUT	
244	(602201-001)	602092-001	WHT	806			
245	J103-27	J12-S	24AWG	602201-	54"	GRP 12, IN 3	
24.)	(602201-001)	602092-001	WHT	806			
246	J103-59	J12-P	24AWG	602201-	54"	GRP 12, IN 7	,, i
270	(602201-001)	602092-001	WHT	806			
247	J103-28	J12-R	24AWG	602201-	54"	GRP 12, GND	
247	(602201-001)	602092-001	WHT	806			ļ
248	J103-60	J12-T	24AWG	602201-	54"	GRP 12, GND	
240	(602201-001)	602092-001	WHT	806			
249	J103-29	J12-U	24AWG	602201-	54"	GRP 12, GND	
215	(602201-001)	602092-001	WHT	806			
250	J103-61	J12-V	24AWG	602201-	54"	GRP 12, GND	
-00	(602201-001)	602092-001	WHT	806			
251	J103-30	J12-X	24AWG	602201-	54"	GRP 12, IN 4	-
	(602201-001)	602092-001	WHT	806			
252	J103-62	J12-W	24AWG	602201-	54"	GRP 12, IN 8	
	(602201-001)	602092-001	WHT	806			
253	J103-31						
	NO CONNECT						
254	J103-63						
	NO CONNECT					ļ	
255	J103-32						
	NO CONNECT						
256	J103-64		1				
	NO CONNECT						
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Optional Harness Assemblies 6-17

ENGINEERING PARTS LIST

ГТЕМ	BIN	PART NO.	DES	CRIPTION	QTY	REFER	ENCE
1		601855-020	CON-CAB-PLG	20CP.	12	J1-J12	
2		602092-001	CONT,SGMC M		240	W/J1-J12	
3		602193-010	CON-CAB-RCP		24	J100-J123	
4		602199-001		MP,RECPT,28-22GA	240	W/J100-J123	
			WRTEF-STR24		240 	W/J100-J125	· · ·
5		524999					
6		610777	TIE-CA-LKG0		A/R		·····
7		910541	<u>POLYURETHA</u>	NE CONFORMAL CO	DAT A/R		
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VIRE	FROM	ТО	TYPE	PART #	WIRE LEN	REFE	RENCE
	BLK AAx RW 01 (J100)	Uxx-SLOT yy (J1)	CABLE	407283		SYSTEM WIRE	ELIST
	BLK AAx RW 02 (J101)	Uxx-SLOT yy	CABLE	407283			
	BLK AAx RW 03 (J102)	Uxx-SLOT yy (J2)	CABLE	407283			
	BLK AAx RW 04 (J103)	Uxx-SLOT yy (J2)	CABLE	407283			
	BLK AAx RW 05 (J104)	Uxx-SLOT yy (J3)	CABLE	407283			
	BLK AAx RW 06 (J105)	Uxx-SLOT yy (J3)	CABLE	407283			
	BLK AAx RW 07 (J106)	Uxx-SLOT yy (J4)	CABLE	407283			
	BLK AAx RW 08 (J107)	Uxx-SLOT yy (J4)	CABLE	407283			
	BLK AAx RW 09 (J108)	Uxx-SLOT yy (J5)	CABLE	407283			
	BLK AAx RW 10 (J109)	Uxx-SLOT yy (J5)	CABLE	407283			
	BLK AAx RW 11 (J110)	Uxx-SLOT yy (J6)	CABLE	407283			
	BLK AAx RW 12 (J111)	Uxx-SLOT yy (J6)	CABLE	407283			
	BLK AAx RW 13 (J112)	Uxx-SLOT yy (J7)	CABLE	407283			
	BLK AAx RW 14 (J113)	Uxx-SLOT yy (J7)	CABLE	407283			
	BLK AAx RW 15 (J114)	Uxx-SLOT yy (J8)	CABLE	407283			
	BLK AAx RW 16 (J115)	Uxx-SLOT yy (J8)	CABLE	407283			
	BLK AAx RW 17 (J116)	Uxx-SLOT yy (J9)	CABLE	407283	<u> </u>		
	BLK AAx RW 18 (J117)	Uxx-SLOT yy (J9)	CABLE	407283			,
	BLK AAx RW 19 (J118)	Uxx-SLOT yy (J10)	CABLE	407283			
	BLK AAx RW 20 (J119)	Uxx-SLOT yy (J10)	CABLE	407283			
	BLK AAx RW 21 (J120)	Uxx-SLOT yy (J11)	CABLE	407283	ļ	1	
	BLK AAx RW 22 (J121)	Uxx-SLOT yy (J11)	CABLE	407283			
	BLK AAx RW 23 (J122)	Uxx-SLOT yy (J12)	CABLE	407283	ļ		
	BLK AAx RW 24 (J123)	Uxx-SLOT yy (J12)	CABLE This system wireli	407283 st serves as a template for mbly into the overall syste	y incorporating	I	
DACT	T Total Transformer		does not in any w assembly	ay affect the fabrication o	I this hamess		· · ···
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	ENCE
1	J100-1 602199-001	J1-C 602092-001	24AWG WHT	524999	40"	GRP 1, IN 1	
2	J100-2 602199-001	J1-A 602092-001	24AWG WHT	524999	40"	GRP 1, IN 5	
3	J100-3 602199-001	J1-B 602092-001	24AWG WHT	524999	4 0"	GRP 1, GND	
4	J100-4 602199-001	J1-D 602092-001	24AWG WHT	524999	40"	GRP I, GND	
5	J100-5 602199-001	J1-E 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
6	J100-6	J1-F 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
7	602199-001 J100-7	JI-K	24AWG	524999	40"	GRP 1, IN 2	
8	602199-001 J100-8	602092-001 J1-H	WHT 24AWG WHT	524999	40"	GRP 1, IN 6	
9	602199-001 J100-9	602092-001 J1-J 602092-001	24AWG WHT	524999	40"	GRP 1, OUT	
10	602199-001 J100-10 602199-001	J1-L 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
	002177*001	004072-001					
11	J101-10 602199-001	J1-N 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
12	J101-9 602199-001	J1-M 602092-001	24AWG WHT	524999	40"	GRP 1, OUT	
13	J101-8 602199-001	J1-S 602092-001	24AWG WHT	524999	40"	GRP 1, IN 3	ini -
14	J101-7 602199-001	J1-P 602092-001	24AWG WHT	524999	40"	GRP 1, IN 7	
15	J101-6 602199-001	J1-R 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
1 6	J101-5 602199-001	J1-T 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
17	J101-4 602199-001	J1-U 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
18	J101-3 602199-001	J1-V 602092-001	24AWG WHT	524999	40"	GRP 1, GND	
19	J101-2 602199-001	J1-X 602092-001	24AWG WHT	524999	40"	GRP 1, IN 4	
20	J101-1 602199-001	J1-W 602092-001	24AWG WHT	524999	40"	GRP 1, IN 8	
21	J102-1 602199-001	J2-C 602092-001	24AWG WHT	524999	40"	GRP 2, IN 1	
22	J102-2 602199-001	J2-A 602092-001	24AWG WHT	524999	40"	GRP 2, IN 5	
23	J102-3 602199-001	J2-B 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
RACA		Inc., 4 Goodyear		CA 92718			
	DOCUME		SIZE	CODE NO.		MENT NO.	REV
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	ENCE
24	J102-4 602199-001	J2-D 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
25	J102-5 602199-001	J2-E 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
26	J102-6	J2-F 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
27	602199-001 J102-7 602199-001	J2-K 602092-001	24AWG WHT	524999	40"	GRP 2, IN 2	+ · ·
28	J102-8 602199-001	J2-H 602092-001	24AWG WHT	524999	40"	GRP 2, IN 6	
29	J102-9	J2-J	24AWG WHT	524999	40"	GRP 2, OUT	··-
30	602199-001 J102-10 602199-001	602092-001 J2-L 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
31	J103-10 602199-001	J2-N 602092-001	24AWG WHT	524999	40°	GRP 2, GND	
32	J103-9 602199-001	J2-M 602092-001	24AWG WHT	524999	40"	GRP 2, OUT	
33	J103-8 602199-001	J2-S 602092-001	24AWG WHT	524999	40"	GRP 2, IN 3	
34	J103-7 602199-001	J2-P 602092-001	24AWG WHT	524999	40"	GRP 2, IN 7	
35	J103-6 602199-001	J2-R 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
36	J103-5 602199-001	J2-T 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
37	J103-4 602199-001	J2-U 602092-001	24AWG WHT	524999	40"	GRP 2, GND	
38	J103-3 602199-001	J2-V 602092-001	24AWG WHT	524999	40"	GRP 2, GND	<u></u> .
39	J103-2 602199-001	J2-X 602092-001	24AWG WHT	524999	40"	GRP 2, IN 4	
40	J103-1 602199-001	J2-W 602092-001	24AWG WHT	524999	40"	GRP 2, IN 8	
41	J104-1	J3-C	24AWG	524999	40"	GRP 3, IN 1	
42	602199-001 J104-2	602092-001 J3-A	WHT 24AWG	524999	40"	GRP 3, IN 5	
43	602199-001 J104-3 602100-001	602092-001 J3-B 602092-001	WHT 24AWG WHT	524999	40"	GRP 3, GND	
44	602199-001 J104-4 602199-001	602092-001 J3-D 602092-001	24AWG WHT	524999	40"	GRP 3, GND	
45	J104-5 602199-001	J3-E 602092-001	24AWG WHT	524999	40°	GRP 3, GND	
46	J104-6 602199-001	J3-F 602092-001	24AWG WHT	524999	40"	GRP 3, GND	
RACA	L Instruments.	Inc., 4 Goodyean		CA 92718			
	DOCUME	NT TITLE	SIZE	CODE NO.		IMENT NO.	REV
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	RENCE
47	J104-7 602199-001	J3-K 602092-001	24AWG WHT	524999	40"	GRP 3, IN 2	
48	J104-8	J3-H	24AWG WHT	524999	40"	GRP 3, IN 6	
49	602199-001 J104-9	602092-001 J3-J	24AWG	524999	40"	GRP 3, OUT	
50	602199-001 J104-10	602092-001 J3-L 602092-001	WHT 24AWG WHT	524999	40"	GRP 3, GND	
	602199-001	002092-001	WA1	+			
51	J105-10	J3-N	24AWG	524999	40"	GRP 3, GND	
52	602199-001 J105-9	602092-001 J3-M	24AWG	524999	40"	GRP 3, OUT	
53	602199-001 J105-8	602092-001 J3-S	WHT 24AWG	524999	40"	GRP 3, IN 3	
54	602199-001 J105-7	602092-001 J3-P	WHT 24AWG	524999	40"	GRP 3, IN 7	
55	602199-001 J105-6	602092-001 J3-R	WHT 24AWG	524999	40"	GRP 3, GND	
56	602199-001 J105-5	602092-001 J3-T	24AWG	524999	40"	GRP 3, GND	
57	602199-001 J105-4	602092-001 J3-U	WHT 24AWG	524999	40"	GRP 3, GND	
58	602199-001 J105-3	602092-001 J3-V	WHT 24AWG	524999	40"	GRP 3, GND	
59	602199-001 J105-2	602092-001 J3-X	24AWG	524999	40"	GRP 3, IN 4	
60	602199-001 J105-1	602092-001 J3-W	24AWG WHT	524999	40"	GRP 3, IN 8	
	602199-001	602092-001	WI				
61	J106-1	J4-C	24AWG	524999	40"	GRP 4, IN 1	<u></u>
62	602199-001 J106-2	602092-001 J4-A	24AWG	524999	40"	GRP 4, IN 5	<u></u>
63	602199-001 J106-3	602092-001 J4-B	24AWG	524999	40"	GRP 4, GND	- \
64	602199-001 J106-4 602100-001		24AWG WHT	524999	40"	GRP 4, GND	<u></u>
65	602199-001 J106-5 602199-001	602092-001 J4-E 602092-001	24AWG WHT	524999	40"	GRP 4, GND	
66	J106-6 602199-001	J4-F 602092-001	24AWG WHT	524999	40"	GRP 4, GND	
67	J106-7 602199-001	J4-K 602092-001	24AWG WHT	524999	40"	GRP 4, IN 2	
68	J106-8 602199-001	J4-H 602092-001	24AWG WHT	524999	40"	GRP 4, IN 6	
69	J106-9 602199-001	J4-J 602092-001	24AWG WHT	524999	40"	GRP 4, OUT	
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70	J106-10	J4-L	24AWG	524999	40"	GRP 4, GND	
	602199-001	602092-001	WHT		<u> </u>		
71	J107-10	J4-N	24AWG	524999	40"	GRP 4, GND	
	602199-001	602092-001	WHT	524999	40"	GRP 4, OUT	
72	J107-9 602199-001	J4-M 602092-001	24AWG WHT	524999	40	GKF 4, 001	
73	J107-8		24AWG	524999	40°	GRP 4, IN 3	··-
15	602199-001	602092-001	WHT				
74	J107-7	J4-P	24AWG	524999	40"	GRP 4, IN 7	
	602199-001	602092-001	WHT				
75	J107-6	J4-R	24AWG	524999	40"	GRP 4, GND	
	602199-001	602092-001	WHT				
76	J107-5	J4-T	24AWG	524999	40"	GRP 4, GND	
	602199-001	602092-001	WHT	524999	40"	GRP 4, GND	
77	J107-4	J4-U 602092-001	24AWG WHT	324999	40	OKE 4, OND	
78	602199-001 J107-3	J4-V	24AWG	524999	40"	GRP 4, GND	
/0	602199-001	602092-001	WHT	524777			
79	J107-2	J4-X	24AWG	524999	40"	GRP 4, IN 4	
17	602199-001	602092-001	WHT			,	
80	J107-1	J4-W	24AWG	524999	40"	GRP 4, IN 8	
••	602199-001	602092-001	WHT				<u></u>
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81	J108-1		24AWG	524999	40"	GRP 5, IN 1	
61	602199-001	602092-001	WHT	521777	1.0		
82	J108-2	J5-A	24AWG	524999	40"	GRP 5, IN 5	
02	602199-001	602092-001	WHT				
83	J108-3	J5-B	24AWG	524999	40"	GRP 5, GND	
	602199-001	602092-001	WHT				
84	J108-4	J5-D	24AWG	524999	40"	GRP 5, GND	
	602199-001	602092-001	WHT		401		
85	J108-5	J5-E	24AWG	524999	40"	GRP 5, GND	
	<u>602199-001</u>	602092-001	WHT 24AWG	524999	40"	GRP 5, GND	·
86	J108-6 602199-001	J5-F 602092-001	WHT	524777			
87	J108-7	J5-K		524999	40"	GRP 5, IN 2	
07	602199-001	602092-001	WHT		1 -		
88	J108-8	J5-H	24AWG	524999	40"	GRP 5, IN 6	
20	602199-001	602092-001	WHT				
89	J108-9	J5-J	24AWG	524999	40"	GRP 5, OUT	
	602199-001	602092-001	WHT				
9 0	J108-10	J5-L	24AWG	524999	40"	GRP 5, GND	
	602199-001	602092-001	WHT			•••	
91	J109-10	J5-N	24AWG	524999	40"	GRP 5, GND	
71	602199-001	602092-001	WHT				
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92	J109-9	J5-M	24AWG WHT	524999	40"	GRP 5, OUT	
93	602199-001 J109-8	602092-001 J5-S	24AWG	524999	40"	GRP 5, IN 3	
94	602199-001 J109-7	602092-001 J5-P	WHT 24AWG	524999	40"	GRP 5, IN 7	
	602199-001	602092-001	WHT	52 4000	407	CDD 5 CUD	
95	J109-6 602199-001	J5-R 602092-001	24AWG WHT	524999	40"	GRP 5, GND	
96	J109-5 602199-001	J5-T 602092-001	24AWG WHT	524999	40"	GRP 5, GND	
97	J109-4	J5-U	24AWG	524999	40"	GRP 5, GND	
98	602199-001 J109-3	602092-001	WHT 24AWG	524999	40"	GRP 5, GND	
90	602199-001	602092-001	WHT	524333	-0		
99	J109-2	J5-X	24AWG	524999	40"	GRP 5, IN 4	
100	602199-001 J109-1	602092-001 J5-W	WHT 24AWG	524999	40"	GRP 5, IN 8	
	602199-001	602092-001	WHT			· · · · · ·	
101	J110-1	J6-C	24AWG WHT	524999	40"	GRP 6, IN 1	
102	602199-001 J110-2	<u>602092-001</u> J6-A	24AWG	524999	40"	GRP 6, IN 5	
102	602199-001	602092-001	WHT				- <u></u>
103	J110-3 602199-001	J6-B 602092-001	24AWG WHT	524999	40"	GRP 6, GND	
104	J110-4	J6-D	24AWG	524999	40"	GRP 6, GND	±
105	602199-001 J110-5	602092-001 J6-E		524999	40"	GRP 6, GND	
	602199-001	602092-001	WHT			<u> </u>	<u> </u>
106	J110-6 602199-001	J6-F 602092-001	24AWG WHT	524999	40"	GRP 6, GND	
107	J110-7	J6-K	24AWG	524999	40"	GRP 6, IN 2	
108	602199-001 J110-8	602092-001 J6-H	24AWG	524999	40"	GRP 6, IN 6	·
100	602199-001	602092-001	WHT	52()))			
109	J110-9 602199-001	J6-J 602092-001	24AWG WHT	524999	40"	GRP 6, OUT	
110	J110-10	J6-L 602092-001	24AWG WHT	524999	40"	GRP 6, GND	
	602199-001	002092-001		-		1	
111	J111-10	J6-N	24AWG	524999	40"	GRP 6, GND	
112	602199-001 J111-9	602092-001 J6-M	WHT 24AWG	524999	40"	GRP 6, OUT	
112	602199-001	602092-001	WHT	J#7777		-	
113	J111-8	J6-S	24AWG	524999	40"	GRP 6, IN 3	
	602199-001	602092-001	WHT	524000	40"	CPD4 IN 7	
114	J111-7 602199-001	J6-P 602092-001	24AWG WHT	524999	40"	GRP 6, IN 7	
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115	J111-6 602199-001	J6-R 602092-001	24AWG WHT	524999	40"	GRP 6, GND	
116	J111-5 602199-001	J6-T 602092-001	24AWG WHT	524999	40"	GRP 6, GND	
117	J111-4 602199-001	J6-U 602092-001	24AWG WHT	524999	40"	GRP 6, GND	
118	J111-3 602199-001	J6-V 602092-001	24AWG WHT	524999	40"	GRP 6, GND	
119	J111-2 602199-001	J6-X 602092-001	24AWG WHT	524999	40"	GRP 6, IN 4	
120	J111-1 602199-001	J6-W 602092-001	24AWG WHT	524999	40"	GRP 6, IN 8	
121	J112-1	J7-C	24AWG	524999	40"	GRP 7, IN 1	
122	602199-001 J112-2	602092-001 J7-A	WHT 24AWG	524999	40"	GRP 7. IN 5	
123	602199-001 J112-3 602199-001	602092-001 J7-B 602092-001	WHT 24AWG WHT	524999	40"	GRP 7, GND	
121	J112-4 602199-001	J7-D 602092-001	24AWG WHT	524999	40"	GRP 7, GND	
125	J112-5 602199-001	J7-E 602092-001	24AWG WHT	524999	40"	GRP 7, GND	
126	J112-6 602199-001	J7-F 602092-001	24AWG WHT	524999	40"	GRP 7, GND	
127	J112-7 602199-001	J7-K 602092-001	24AWG WHT	524999	40"	GRP 7, IN 2	
128	J112-8 602199-001	J7-H 602092-001	24AWG WHT	524999	40"	GRP 7, IN 6	
129	J112-9 602199-001	J7-J 602092-001	24AWG WHT	524999	40"	GRP 7, OUT	
130	J112-10 602199-001	J7-L 602092-001	24AWG WHT	524999	40"	GRP 7, GND	
131	J113-10	J7-N	24AWG	524999	40"	GRP 7, GND	
132	602199-001 J113-9 602199-001	602092-001 J7-M 602092-001	24AWG WHT	524999	40"	GRP 7, OUT	
133	J113-8 602199-001	J7-S 602092-001	24AWG WHT	524999	40"	GRP 7, IN 3	
134	J113-7 602199-001	J7-P 602092-001	24AWG WHT	524999	40"	GRP 7, IN 7	
135	J113-6 602199-001	J7-R 602092-001	24AWG WHT	524999	40"	GRP 7, GND	
136	J113-5 602199-001	J7-T 602092-001	24AWG WHT	524999	40"	GRP 7, GND	
137	J113-4 602199-001	J7-U 602092-001	24AWG WHT	524999	40"	GRP 7, GND	
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138 139	J113-3			PART #	LEN	KEFER	RENCE	
139	602199-001	J7-V 602092-001	24AWG WHT	524999	40"	GRP 7, GND		
	J113-2 602199-001	J7-X 602092-001	24AWG WHT	524999	40"	GRP 7, IN 4		
140	J113-1 602199-001	J7-W 602092-001	24AWG WHT	524999	40"	GRP 7, IN 8		
141	J114-1 602199-001	J8-C 602092-001	24AWG WHT	524999	40"	GRP 8, IN 1		
142	J114-2 602199-001	J8-A 602092-001	24AWG WHT	524999	40"	GRP 8, IN 5		
143	J114-3 602199-001	J8-B 602092-001	24AWG WHT	524999	40"	GRP 8, GND		
144	J114-4 602199-001	J8-D 602092-001	24AWG WHT	524999	40"	GRP 8, GND		
145	J114-5 602199-001	J8-E 602092-001	24AWG WHT	524999	40"	GRP 8, GND		
146	J114-6 602199-001	J8-F 602092-001	24AWG WHT	524999	40"	GRP 8, GND		
147	J114-7 602199-001	J8-K 602092-001	24AWG WHT	524999	40"	GRP 8, IN 2		
148	J114-8 602199-001	J8-H 602092-001	24AWG WHT	524999	40"	GRP 8, IN 6	<u></u>	
149	J114-9 602199-001	J8-J 602092-001	24AWG WHT	524999	40"	GRP 8, OUT		
150	J114-10 602199-001	J8+L 602092+001	24AWG WHT	524999	40"	GRP 8, GND	-	
151	J115-10	J8-N		524999	40"	GRP 8, GND		
152	602199-001 J115-9	602092-001 J8-M	WHT 24AWG	524999	40"	GRP 8, OUT		
153	602199-001 J115-8	602092-001 J8-S	WHT 24AWG	524999	40"	GRP 8, IN 3		
154	602199-001 J115-7	602092-001 J8-P	WHT 24AWG	524999	40"	GRP 8, IN 7	. <u>.</u>	
155	602199-001 J115-6	602092-001 J8-R	24AWG	524999	40"	GRP 8, GND		
156	602199-001 J115-5 602100-001	602092-001 J8-T 602092-001	24AWG WHT	524999	40"	GRP 8, GND		
157	602199-001 J115-4 602199-001	J8-U 602092-001	24AWG WHT	524999	40"	GRP 8, GND		
158	J115-3 602199-001	J8-V 602092-001	24AWG WHT	524999	40"	GRP 8, GND		
159	J115-2 602199-001	J8-X 602092-001	24AWG WHT	524999	40"	GRP 8, IN 4		
160	J115-1 602199-001	J8-W 602092-001	24AWG WHT	524999	40"	GRP 8, IN 8		
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161	J116-1 602199-001	J9-C 602092-001	24AWG WHT	524999	40"	GRP 9, IN 1	
162	J116-2 602199-001	J9-A 602092-001	24AWG WHT	524999	40"	GRP 9, IN 5	
163	J116-3 602199-001	J9-B 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
164	J116-4 602199-001	J9-D 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
165	J116-5 602199-001	J9-E 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
166	J116-6 602199-001	J9-F 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
167	J116-7 602199-001	J9-K 602092-001	24AWG WHT	524999	40"	GRP 9, IN 2	
168	J116-8 602199-001	J9-H 602092- <u>00</u> 1	24AWG WHT	524999	40"	GRP 9, IN 6	
169	J116-9 602199-001	J9-J 602092-001	24AWG WHT	524999	40"	GRP 9, OUT	
170	J116-10 602199-001	J9-L 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
171	J117-10 602199-001	J9-N 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
172	J117-9 602199-001	J9-M 602092-001	24AWG WHT	524999	40"	GRP 9, OUT	
173	J117-8 602199-001	J9-S 602092-001	24AWG WHT	524999	40"	GRP 9, IN 3	
174	J117-7 602199-001	J9-P 602092-001	24AWG WHT	524999	40"	GRP 9, IN 7	
175	J117-6 602199-001	J9-R 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
176	J117-5 602199-001	J9-T 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
177	J117-4 602199-001	J9-U 602092-001	24AWG WHT	524999	40"	GRP 9, GND	<u></u>
178	J117-3 602199-001	J9-V 602092-001	24AWG WHT	524999	40"	GRP 9, GND	
179	J117-2 602199-001	J9-X 602092-001	24AWG WHT	524999	40" 40"	GRP 9, IN 4 GRP 9, IN 8	
180	J117-1 602199-001	J9-W 602092-001	24AWG WHT	524999	40	GRF 9, 1N 8	
181	J118-1 602199-001	J10-C 602092-001	24AWG WHT	524999	40"	GRP 10, IN 1	
182	J118-2 602199-001	J10-A 602092-001	24AWG WHT	524999	40"	GRP 10, IN 5	
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183	J118-3 602199-001	J10-B 602092-001	24AWG WHT	524999	40"	GRP 10, GND	
184	J118-4	J10-D	24AWG	524999	40"	GRP 10, GND	
10-	602199-001	602092-001	WHT				
185	J118-5	J10-E	24AWG	524999	40"	GRP 10, GND	-
105	602199-001	602092-001	WHT		1	,	
186	J118-6	J10-F	24AWG	524999	40"	GRP 10, GND	
100	602199-001	602092-001	WHT			,,	
187	J118-7	J10-K	24AWG	524999	40"	GRP 10, IN 2	
107	602199-001	602092-001	WHT				
188	J118-8	J10-H	24AWG	524999	40"	GRP 10, IN 6	
100	602199-001	602092-001	WHT				
189	J118-9	J10-J	24AWG	524999	40"	GRP 10, OUT	
107	602199-001	602092-001	WHT		1		
190	J118-10	J10-L	24AWG	524999	40"	GRP 10, GND	·
170	602199-001	602092-001	WHT				
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191	J119-10	J10-N	24AWG	524999	40"	GRP 10, GND	
	602199-001	602092-001	WHT		<u> </u>		
192	J119-9	J10-M	24AWG	524999	40"	GRP 10, OUT	
	602199-001	602092-001	WHT				
193	J119-8	J10-S	24AWG	524999	40"	GRP 10, IN 3	
	602199-001	602092-001	WHT		_		
194	J119-7	J10-P	24AWG	524999	40"	GRP 10, IN 7	
	602199-001	602092-001	WHT				
195	J119-6	J10-R	24AWG	524999	40"	GRP 10, GND	
	602199-001	602092-001	WHT				
196	J119-5	J10-T	24AWG	524999	40"	GRP 10, GND	
	602199-001	602092-001	WHT				
197	J119-4	J10-U	24AWG	524999	40"	GRP 10, GND	
	602199-001	602092-001	WHT				
198	J119-3	J10-V	24AWG	524999	40"	GRP 10, GND	
	602199-001	602092-001	WHT				<u>.</u>
199	J119-2	J10-X	24AWG	524999	40"	GRP 10, IN 4	
	602199-001	602092-001	WHT	1			
200	J119-1	J10-W	24AWG	524999	40"	GRP 10, IN 8	
	602199-001	602092-001	WHT				
	1100 1		244390	524999	40"	GRP 11, IN 1	
201	J120-1	J11-C	24AWG	324999	40		
	602199-001	602092-001	24AWG	524999	40"	GRP 11, IN 5	······
202	J120-2	J11-A		324999	40		
002	602199-001	602092-001	WHT	524999	40"	GRP 11, GND	
203	J120-3	J11-B	24AWG	324999	40		
	602199-001	602092-001	WHT	524999	40"	GRP 11, GND	
204	J120-4	J11-D	24AWG	J24999	1 **		
005	602199-001	602092-001	WHT	524999	40"	GRP 11, GND	
205	J120-5	JII-E	24AWG	324999	40		
DAG	602199-001	602092-001	WHT St Invine (CA 92718		L	
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206	J120-6 602199-001	J11-F 602092-001	24AWG WHT	524999	40"	GRP 11, GND	
207	J120-7 602199-001	J11-K 602092-001	24AWG WHT	524999	40"	GRP 11, IN 2	
208	J120-8 602199-001	J11-H 602092-001	24AWG WHT	524999	40"	GRP 11, IN 6	
209	J120-9 602199-001	J11-J 602092-001	24AWG WHT	524999	40"	GRP 11, OUT	
210	J120-10 602199-001	J11-L 602092-001	24AWG WHT	524999	40"	GRP 11, GND	
211	J121-10	J11-N	24AWG	524999	40"	GRP 11, GND	
212	602199-001 J121-9	602092-001 J11-M	WHT 24AWG WHT	524999	40"	GRP 11, OUT	
213	602199-001 J121-8 602199-001	602092-001 J11-S 602092-001	24AWG WHT	524999	40"	GRP 11, IN 3	
214	J121-7 602199-001	J11-P 602092-001	24AWG WHT	524999	40"	GRP 11, IN 7	
215	J121-6 602199-001	J11-R 602092-001	24AWG WHT	524999	40"	GRP 11, GND	
216	J121-5 602199-001	J11-T 602092-001	24AWG WHT	524999	40"	GRP 11, GND	
217	J121-4 602199-001	J11-U 602092-001	24AWG WHT	524999	40"	GRP 11, GND	
218	J121-3 602199-001	J11-V 602092-001	24AWG WHT	524999	40"	GRP 11, GND	
219	J121-2 602199-001	J11-X 602092-001	24AWG WHT	524999	40"	GRP 11, IN 4	
220	J121-1 602199-001	J11-W 602092-001	24AWG WHT	524999	40"	GRP 11, IN 8	
221	J122-1 602199-001	J12-C 602092-001	24AWG WHT	524999	40"	GRP 12, IN 1	
222	J122-2 602199-001	J12-A 602092-001	24AWG WHT	524999	40"	GRP 12, IN 5	
223	J122-3 602199-001	J12-B 602092-001	24AWG WHT	524999	40"	GRP 12, GND	
224	J122-4 602199-001	J12-D 602092-001	24AWG WHT	524999	40"	GRP 12, GND	
225	J122-5 602199-001	J12-E 602092-001	24AWG WHT	524999	40"	GRP 12, GND	
226	J122-6 602199-001	J12-F 602092-001	24AWG WHT	524999	40"	GRP 12, GND	
227	J122-7 602199-001	J12-K 602092-001	24AWG WHT	524999	40"	GRP 12, IN 2	
228	J122-8 602199-001	J12-H 602092-001	24AWG WHT	524999	40"	GRP 12, IN 6	
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WIRE	FROM	то	TYPE	PART #	WIRE LEN	REFER	ENCE
229	J122-9	J12-J	24AWG WHT	524999	40"	GRP 12, OUT	
230	602199-001 J122-10	602092-001 J12-L	24AWG	524999	40"	GRP 12, GND	
	602199-001	602092-001	WHT		······		
231	J123-10	J12-N	24AWG	524999	40"	GRP 12, GND	
232	602199-001 J123-9	602092-001 J12-M	WHT 24AWG	524999	40"	GRP 12, OUT	
233	602199-001 J123-8	602092-001 J12-S	WHT 24AWG	524999	40"	GRP 12, IN 3	
234	602199-001 J123-7	602092-001 J12-P	WHT 24AWG	524999	40"	GRP 12, IN 7	
235	602199-001 J123-6	602092-001 J12-R 602092-001	WHT 24AWG	524999	40"	GRP 12, GND	
236	602199-001 J123-5 (02100-001	602092-001 J12-T 602092-001	WHT 24AWG WHT	524999	40"	GRP 12, GND	
237	602199-001 J123-4 602199-001	602092-001 J12-U 602092-001	24AWG WHT	524999	40"	GRP 12, GND	
238	602199-001 J123-3 602199-001	602092-001 J12-V 602092-001	24AWG WHT	524999	40"	GRP 12, GND	<u>u</u>
239	J123-2 602199-001	J12-X 602092-001	24AWG WHT	524999	40"	GRP 12, IN 4	
240	J123-1 602199-001	J12-W 602092-001	24AWG WHT	524999	40"	GRP 12, IN 8	<u></u>
RACA	L Instruments, 1	nc., 4 Goodyear S	t., Irvine, C	CA 92718			
ļ	DOCUMEN	T TITLE		CODE NO.	DOCUMENT NO		
111	RNESS ASSEMB	LY, 1260-36, TTI	A DRN	21793	4	SHEET 14 c	A

Chapter 7 PRODUCT SUPPORT

Product Support	Racal Instruments has a complete Service and Parts Department. If you need technical assistance or should it be necessary to return your product for repair or calibration, call 1-800-722-3262. If parts are required to repair the product at your facility, call 1-949-859- 8999 and ask for the Parts Department.
	When sending your instrument in for repair, complete the form in the back of this manual.
	For worldwide support and the office closes to your facility, refer to the Support Offices section on the following page.
Reshipment Instructions	Use the original packing material when returning the 1260-36 to Racal Instruments for calibration or servicing. The original shipping crate and associated packaging material will provide the necessary protection for safe reshipment.
	If the original packing material is unavailable, contact Racal Instruments Customer Service for information.

Support Offices

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4 Goodyear St., Irvine, CA 92618-2002 Tel: (800) 722-3262, FAX: (949) 859-7309

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