MAINTENANCE MANUAL

MULTISITE COORDINATOR II CARD CAGE 19D903310P1 AND BACKPLANE 19D903312P1

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SPECIFICATIONS

DIMENSIONS (H x W)	10.5" x 19" (26.67 cm x 48.26 cm) (6 Rack Units x 340 mm Card Cage)
INPUT VOLTAGE	+5 Vdc, +15 Vdc, -15 Vdc
NUMBER OF CARD SLOTS	21
CONNECTORS:	
P101-P119 P201-P219	96 Pins
P1E1, P1E2 P2E1, P2E2	96 Pin (long)
PA101-PA119 PA201-PA219	24 Pin
J1-J8	4 Pin Power Connector
JP101-JP119 JP201-JP219	24 Pin Header

ERICSSON

DESCRIPTION

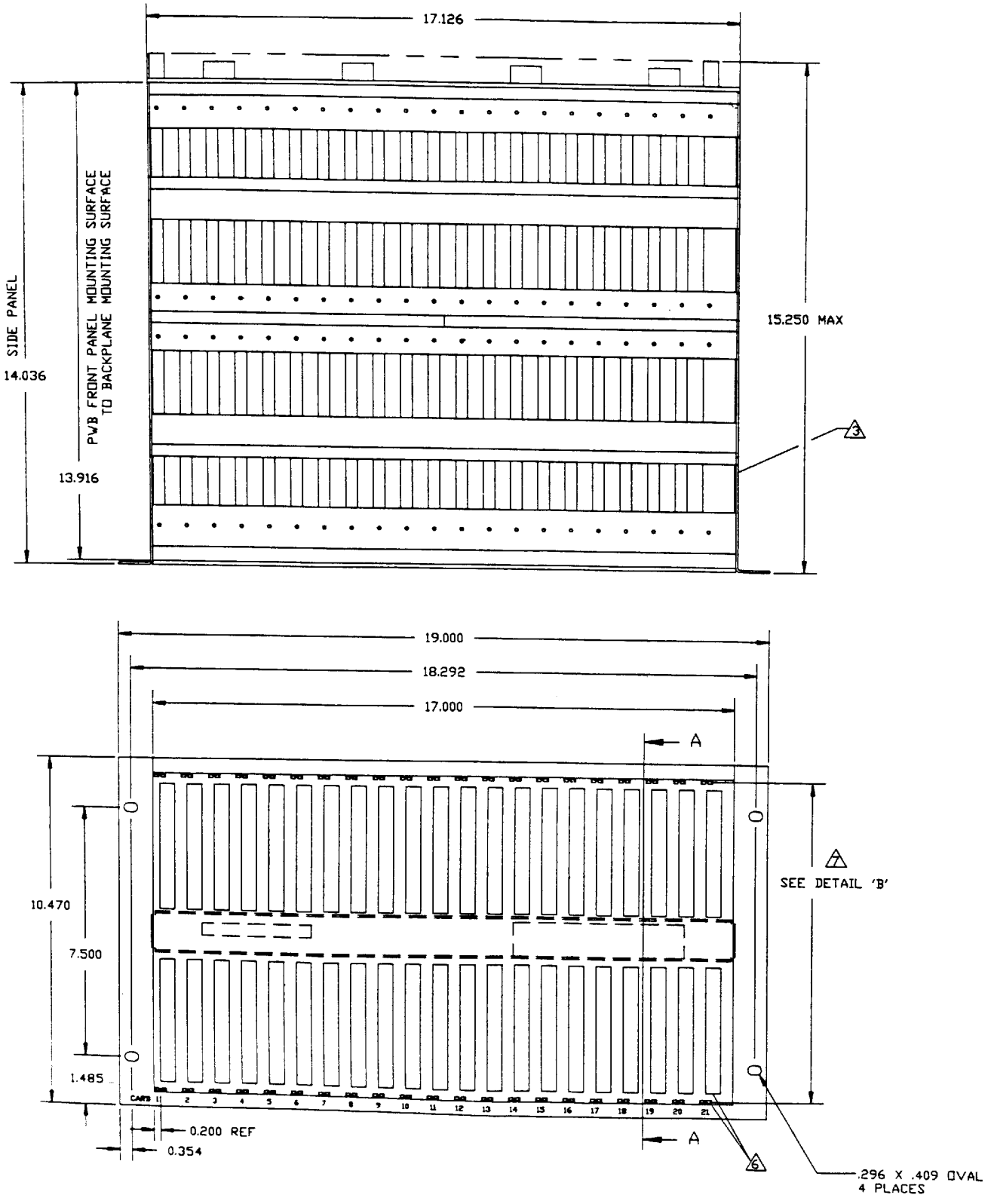
Card Cage 19D903310P1 along with Backplane 19D903312P1 provides housing and system interconnect for all printed circuit boards used in **M**ulti**S**ite **C**oordinator **II (MSC II)**. A single Card Cage and Backplane assembly provides twenty-one (21) card slots.

A single system module used in the **MSC II** can have many individual circuit boards. **Example:** The **M**ASTR II **I**nterface **M**odule **(MIM)** uses up to nine (9) circuit boards: seven (7) Audio Boards and two (2) Controller Boards. Generally, to accommodate all **MSC II** system **"Nodes,"** more than one card cage and associated backplane is required in a system of any size.

Backplane 19D903312 is a four (4) layered circuit board. To show all layers in this manual, all outside layers are printed in color and all internal layers are printed as gray (refer to the Table of Contents for the **OUTLINE DIAGRAM** of the **Backplane**).

The **OUTLINE DIAGRAM** of the **Backplane** consists of two (2) sheets printed back-to-back. Sheet 1 shows the front side of the board as seen through the front or open side of the card cage. Assembly Drawing 19D903312, Sheet 1 is printed on the printed circuit layer labeled **CONNECTOR SIDE**. This layer is the colored layer (outside layer). The Assembly Drawing and the **CONNECTOR SIDE** printed circuit layer are printed on the printed circuit layer labeled **INNER SIGNAL 1. INNER SIGNAL 1** is the gray layer (internal layer). Sheet 1 of the **OUTLINE DIAGRAM** shows all of the connectors (P101 - P119, P201 - P219, P1E1, P1E2, P2E1, P2E2) where all the various circuit cards plug.

Sheet 2 of the **OUTLINE DIAGRAM** for the **Backplane** shows the back side of the board as seen from the back side or closed side of the card cage. Assembly Drawing 19D903312, Sheet 2 is printed on the printed circuit layer labeled **WIREWRAP SIDE**. This layer is the colored layer (outside layer). The Assembly Drawing and the **WIREWRAP SIDE** printed circuit layer are printed on the printed circuit layer labeled I**NNER SIGNAL 2. INNER SIGNAL 2** is the gray layer (internal layer). Sheet 2 of the **OUTLINE DIAGRAM** shows all of the wirewrap connectors on the back of the board (JP101 - JP119, JP201 - JP219, P1E1, P1E2, P2E1, P2E2, PA101 - PA118, PA201 - PA218, PA1-2E2, PA2-2E2 and jacks J1 - J8).



(19D903310, Rev. 4)

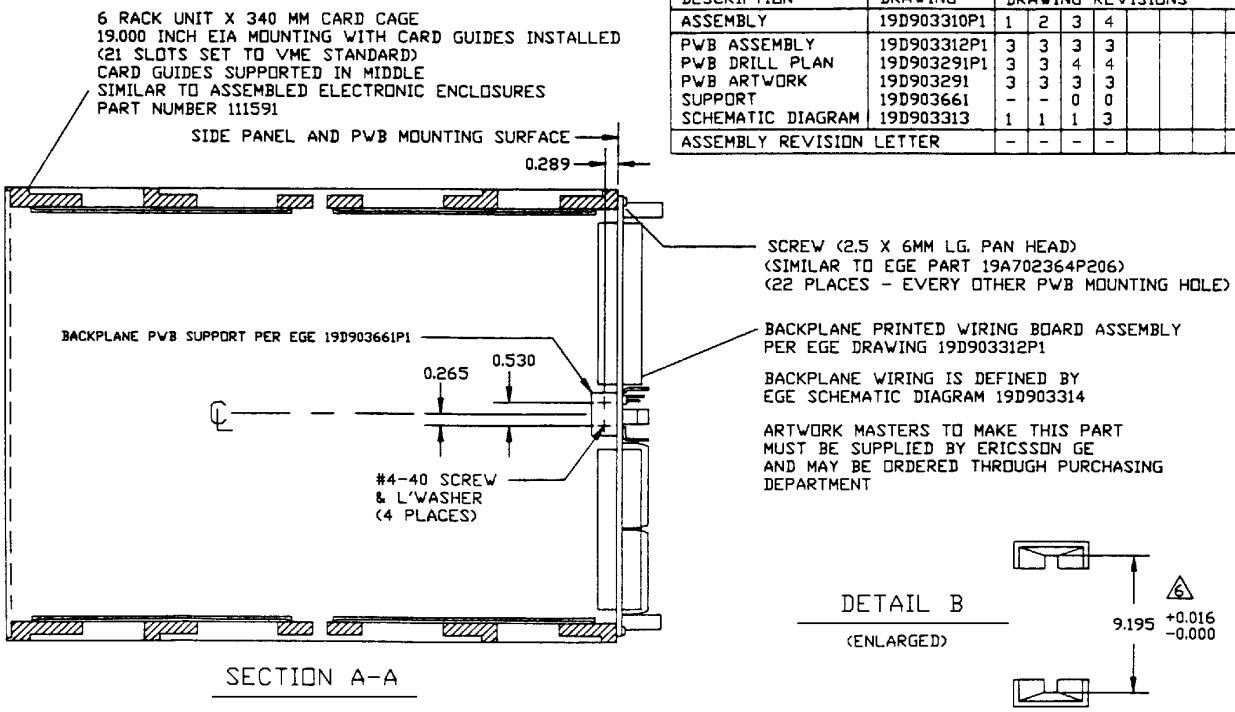
Card Cage

PART (1) VME CARD CAGE AND BACKPLANE ASSEMBLY

UNLESS OTHERWISE SPECIFIED, VENDOR SHALL BUILD TO THE HIGHEST ASSEMBLY REVISION LISTED IN THE REVISION HISTORY CHART.

REVISION HISTORY CHART

DESCRIPTION	DRAWING	DRAWING REVISIONS							
ASSEMBLY	19D903310P1	1	2	3	4				
PWB ASSEMBLY	19D903312P1	3	3	3	3				
PWB DRILL PLAN	19D903291P1	3	3	4	4				
PWB ARTWORK	19D903291	3	3	3	3				
SUPPORT	19D903661	-	-	0	0				
SCHEMATIC DIAGRAM	19D903313	1	1	1	3				
ASSEMBLY REVISION LETTER		-	-	-	-				



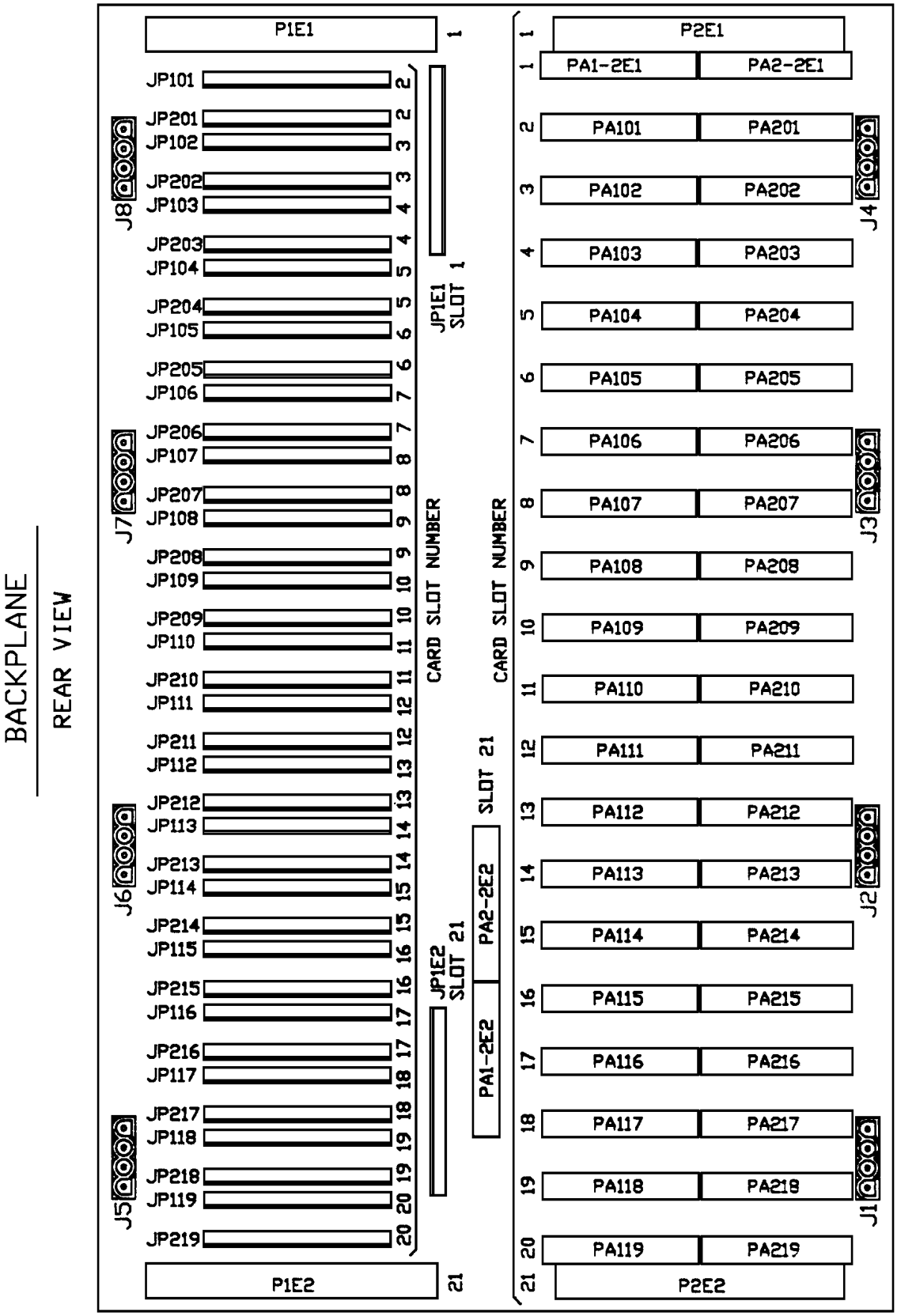
1. THIS PRODUCT SHALL MEET ALL REQUIREMENTS OF THIS DRAWING PLUS EGE DRAWINGS:
   - 19D903312P1 PWB ASSEMBLY
   - 19D903291P1 PWB DRILL PLAN
   - 19D903291 PWB ARTWORK
   - 19D903313 SCHEMATIC DIAGRAM
2. THIS ASSEMBLY IS SUBJECT TO ALL THE VENDOR TEST REQUIREMENTS LISTED IN 344A3886 WITH THE EXCEPTION OF REQUIREMENTS 3, 4, 8, 10, 11 AND 13.
3. MARK SIDE PANEL OF CARD CAGE AS SHOWN BELOW. CHARACTERS .125 MIN. HIGH IN CONTRASTONG COLOR.

   REV NUMBER OF THIS DRAWING

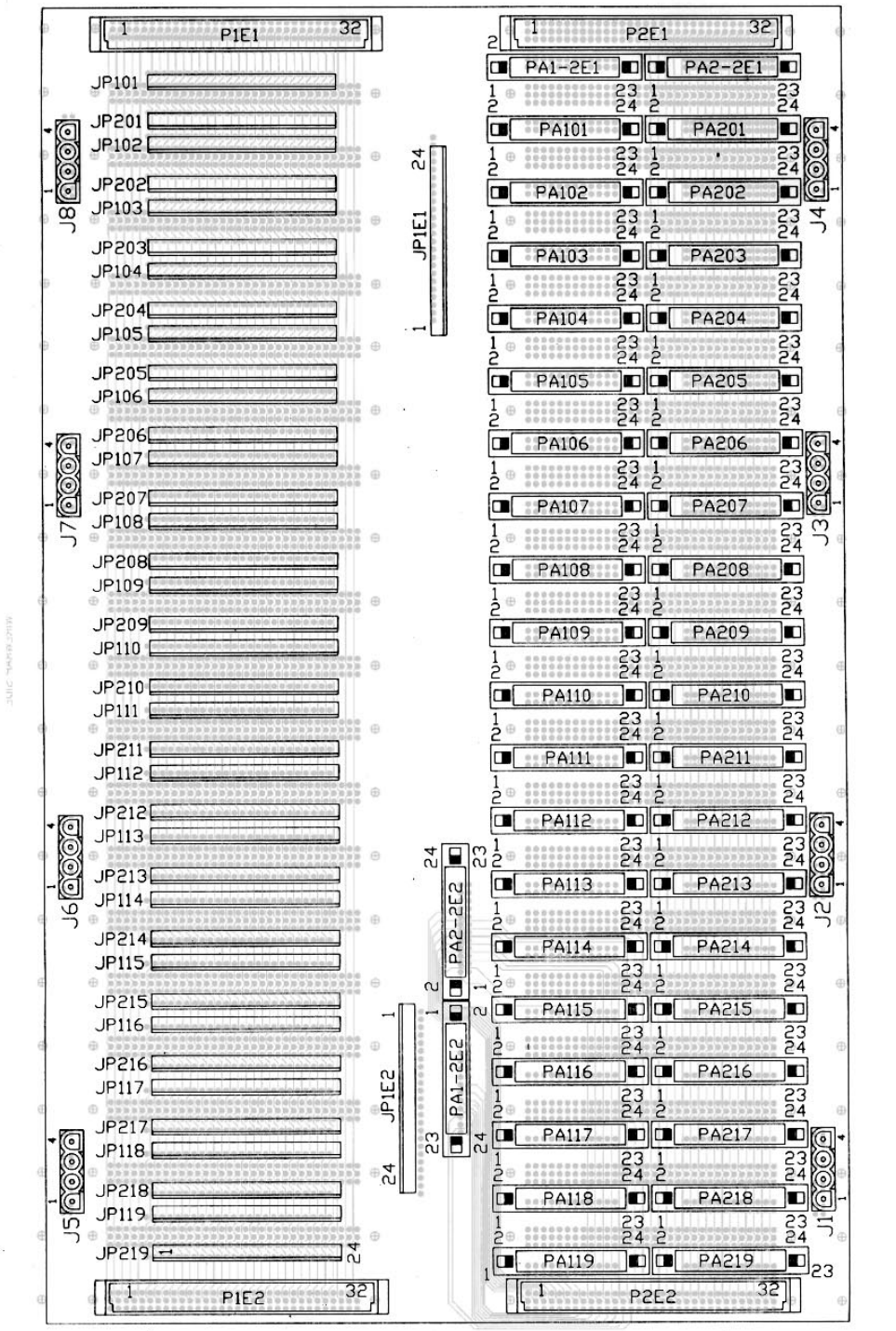
   19D903310P1 R_ REV_ ← REV LETTER SHOWN IN REVISION HISTORY CHART
   VENDOR IDENTIFICATION
   COUNTRY OF ORIGIN
4. SHIP ONE CARD CAGE ASSEMBLY TO A BOX.
5. MARK DRAWING NUMBER, DRAWING REVISION NO, REVISION LETTER, VENDOR ID, COUNTRY OF ORIGIN (PER NOTE 3) ON OUTSIDE OF BOX
6. BACKPLANE/CARD GUIDE RELATIONSHIP IS CRITICAL AND WILL REQUIRE AN ASSEMBLY FIXTURE EQUIVALENT TO EGE CLOCK BOARD 19D903305 LOCATED IN CARD POSITIONS 1 AND 21

   ASSEMBLY MUST ACCEPT ANY COMBINATION OF:
   - 19D903299P1 - CONTROLLER BOARD
   - 19D903302P1 - AUDIO BOARD
   - 19D903305P1 - CLOCK BOARD
7. STANDARD VME CARD CAGE DIMENSION AND TOLERANCE

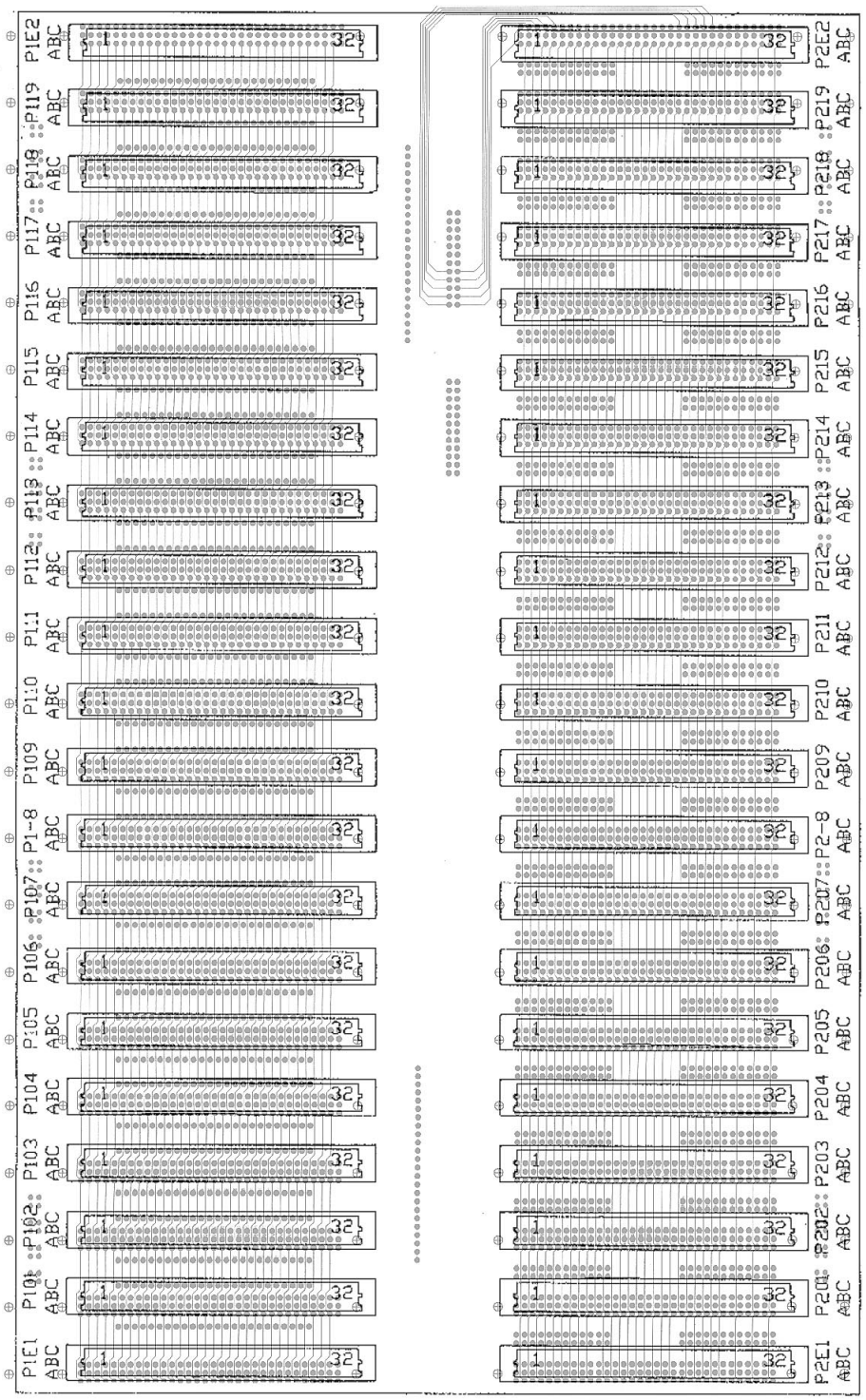
(19D903310, Rev. 4)



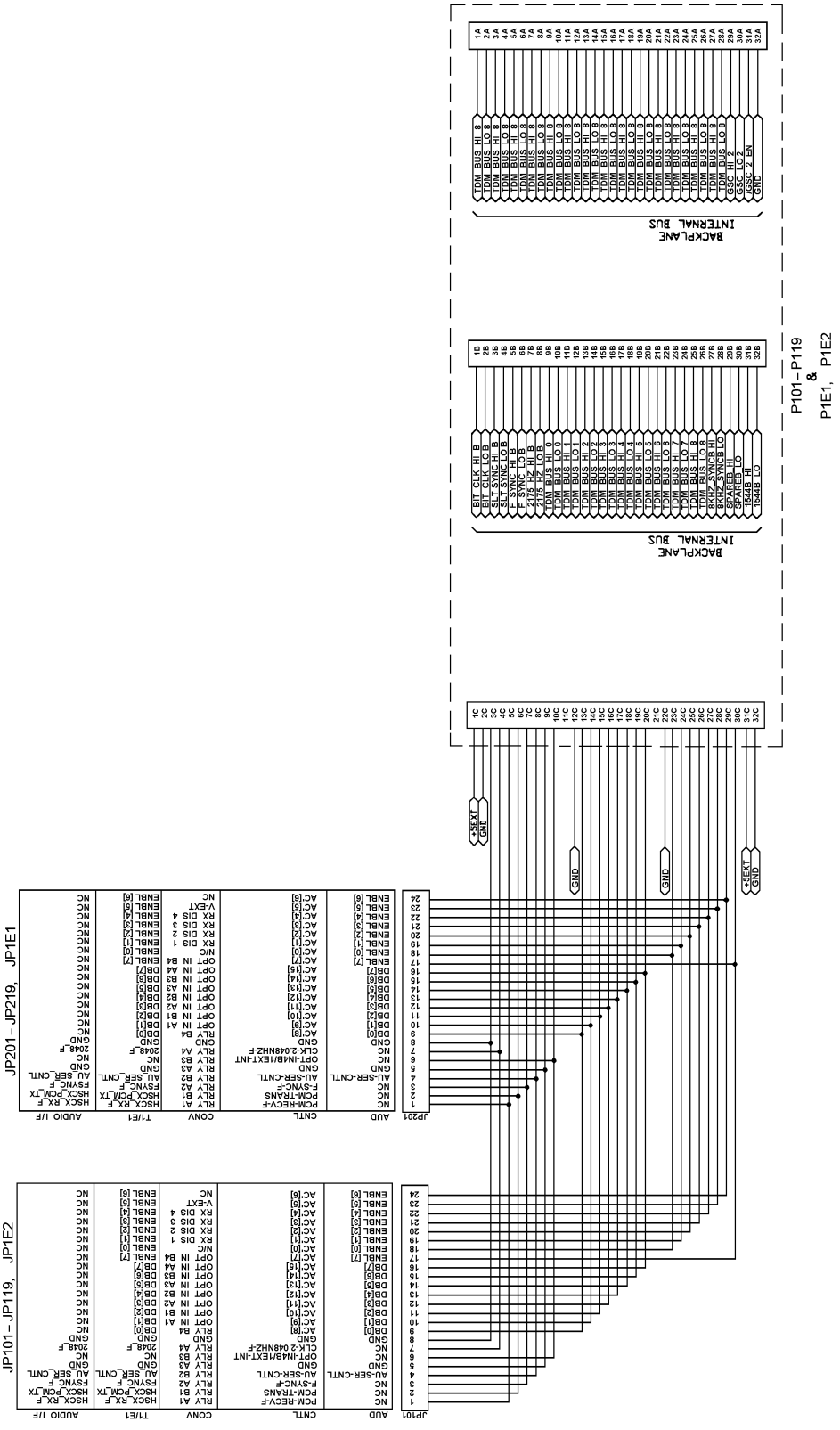
(19D903313, Rev. 3)



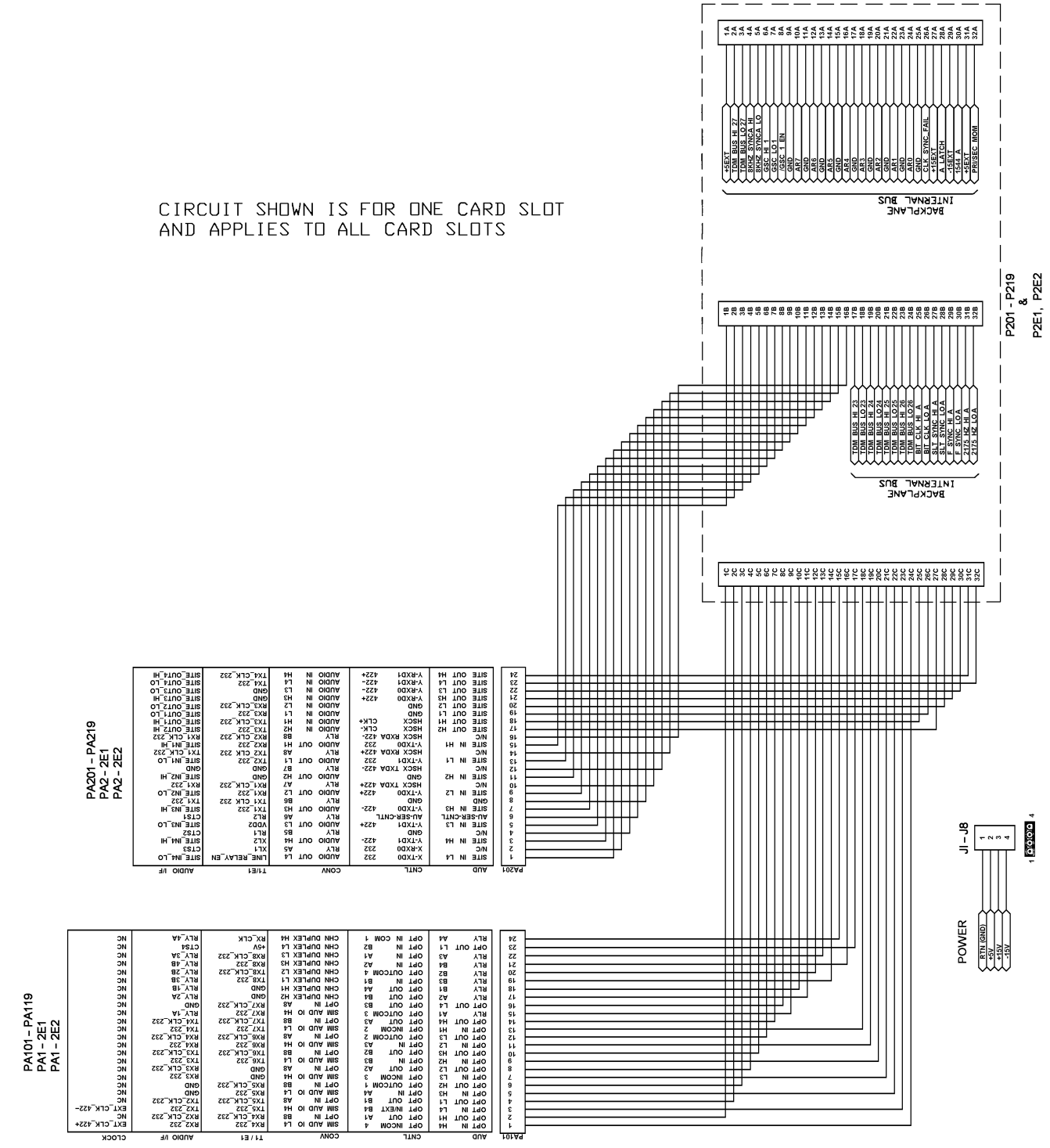
(19D903312, Sh. 2, Rev. 3)
(19D903291, Wirewrap Side. Rev. 3)



(19D903312, Sh. 1, Rev. 3)
(19D903291, Wirewrap Side. Rev. 3)



(19D903313, Rev. 3)


CIRCUIT SHOWN IS FOR ONE CARD SLOT
AND APPLIES TO ALL CARD SLOTS
P201 - P219
&
P2E1, P2E2
BACKPLANE
INTERNAL BUS
PA201 - PA219
PA2 - 2E1
PA2 - 2E2
PA101 - PA119
PA1 - 2E1
PA1 - 2E2
J1 - J8
POWER
RTN (GND)
+15V
-15V

Card Cage 19D903310P1
Backplane 19D903312P1

Issue 2

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - ASSEMBLIES - - - - - - - - - -
		CARD CAGE 19D903310P1
		BACKPLANE 19D903312P1
		- - - - - - - - - - CONNECTORS - - - - - - - - - -
P101 thru P119 and P201 thru P219		AMP 535032-4, 96 Pin Connector (Quantity 38)
P1E1, P1E2, P2E1, P2E2		AMP 1-215614-4, 96 (long) Pin Connector (Quantity 4)
PA101, thru PA118 and PA201 thru PA218		AMP 499582-5, 24 Pin Connector (Quantity 42)
JP101 thru JP119 and JP201 thru JP219		AMP 1-102898-7, 24 Pin Header (Quantity 40)
J1 thru J8		AMP 173926-1, 4 Pin Power Connector (Quantity 8)
		- - - - - - - - - MISCELLANEOUS - - - - - - - - -
1	19D903291P1	Printed Wire Board (Quantity 1)
2		AMP 535074-2, Shroud (w/mtg. holes) (Quantity 4)
3	19B235546P3	AMP 102320-1, Latch (Quantity 84)

Ericsson Inc.
Private Radio Systems
Mountain View Road
Lynchburg, Virginia 24502
1-800-528-7711 (Outside USA, 804-528-7711)