

MAINTENANCE MANUAL
GE-MARC™
MINI BACKPLANE
19D902308G1

TABLE OF CONTENTS

	Page
DESCRIPTION	Front Cover
REPEATER CONTROL BOARD	Front Cover
SUBSCRIBER REPEATER MODULE (SRM)	Front Cover
ICS REPEATER MODULE (IRM)	Front Cover
BACKPLANE OUTLINE DIAGRAM	1
RIBBON CABLE	1
BACKPLANE INTERCONNECTION DIAGRAM	2
PARTS LIST	3
APPLICATION DIAGRAMS:	
Sheet 35	3
Sheet 36	4
PANEL INSTALLATION	5
SYSTEM INTERCONNECTION DIAGRAM	6

DESCRIPTION

The **GE-MARC V** Trunked Mobile Radio repeater control shelf is a three rack unit which contains Mini Backplane 19D902308G1 and Control Panel 19B234871P1. This backplane accommodates three plug-in modules: SRM, IRM and Repeater Control and interconnects with the panel to accomplish station functions. These functions include trunking (interconnections), dispatch (validation) and basic repeating (no billing or validations).

The control shelf is located behind the receiver/exciter door and can be accessed by opening the receiver/exciter door (hinged).

The basic system contains the panel, Mini Backplane and a Repeater Control Module. Extender board 19D417458G1 is recommended for servicing plug-in modules while the system is operational.

The plug-in modules used with the Mini Backplane control shelf are as follows:

REPEATER CONTROL BOARD

This module plugs into the J1211 slot of the Mini Backplane. It monitors the **Receiver Unsquelched Sensor Operat-**

ing Switch (RUSOS) and the Busy Tone Detect Functions which control transmitter keying (refer to Maintenance Manual LBI-31035).

SUBSCRIBER REPEATER MODULE (SRM)

This module is used to provide dispatch service only for the **GE-MARC V** Repeater Station and provides the interface to the Pollar Unit. It is used in conjunction with a Subscriber Validation System (**SVS**), into Site Controller (**SC**) and **ICS Repeater Module (IRM)**. The **SRM** plugs into J1213 and the Mini Backplane.

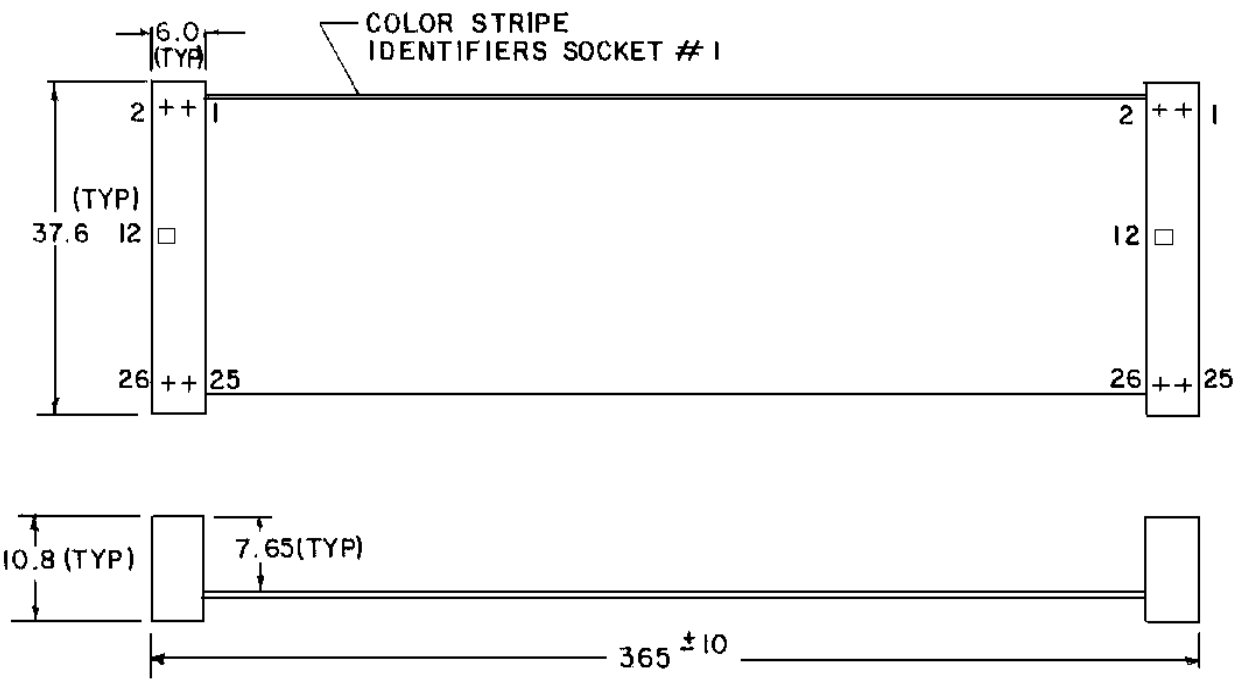
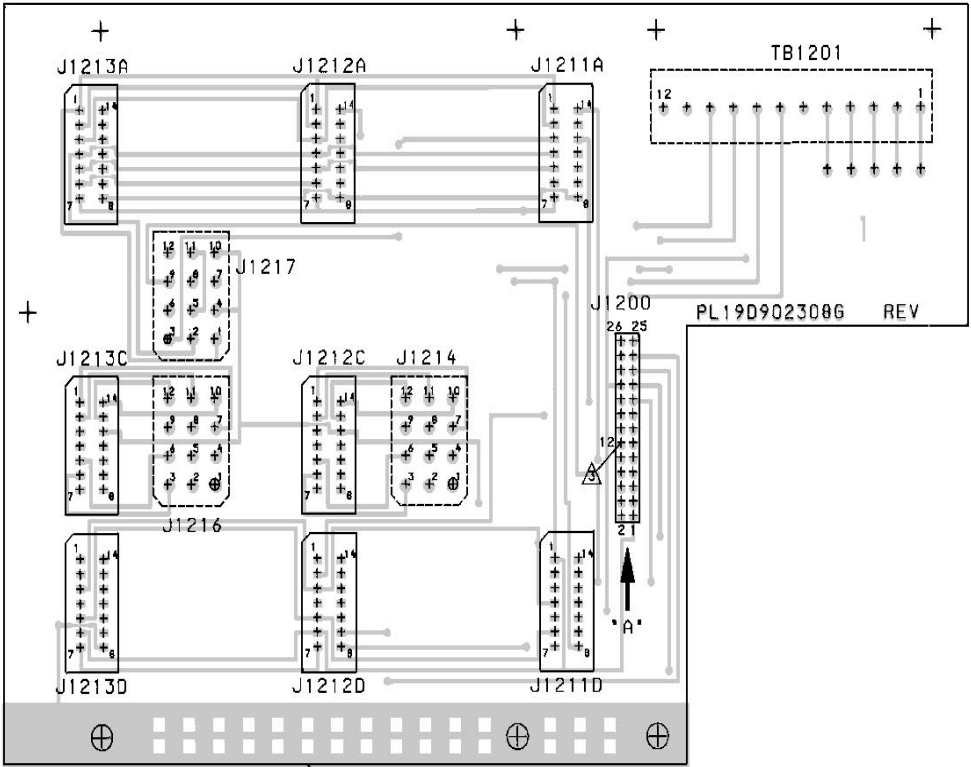
ICS REPEATER MODULE (IRM)

This module is used for telephone interconnect service. It plugs into J1212 on the Mini Backplane.

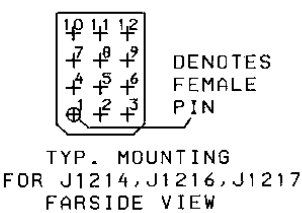
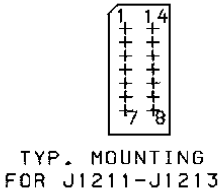
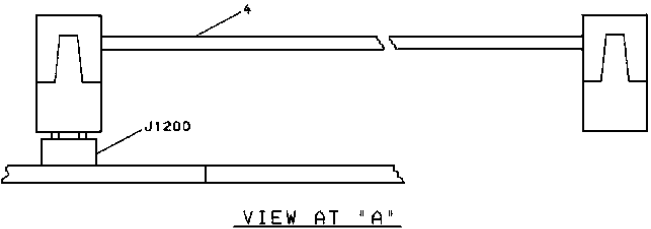
The control shelf is designed to accommodate the SRM and IRM modules. Individual instructions for the modules are provided as part of the validation or interconnect add ons.

Mini Backplane 19D902308G1 mounts to the back of the shelf containing Control Panel 19B234871P1 and connects to the Control Panel through Ribbon Cable 19B801253P4 (J1200). Refer to Application Assembly Diagram 19D424565.

COMPONENT SIDE



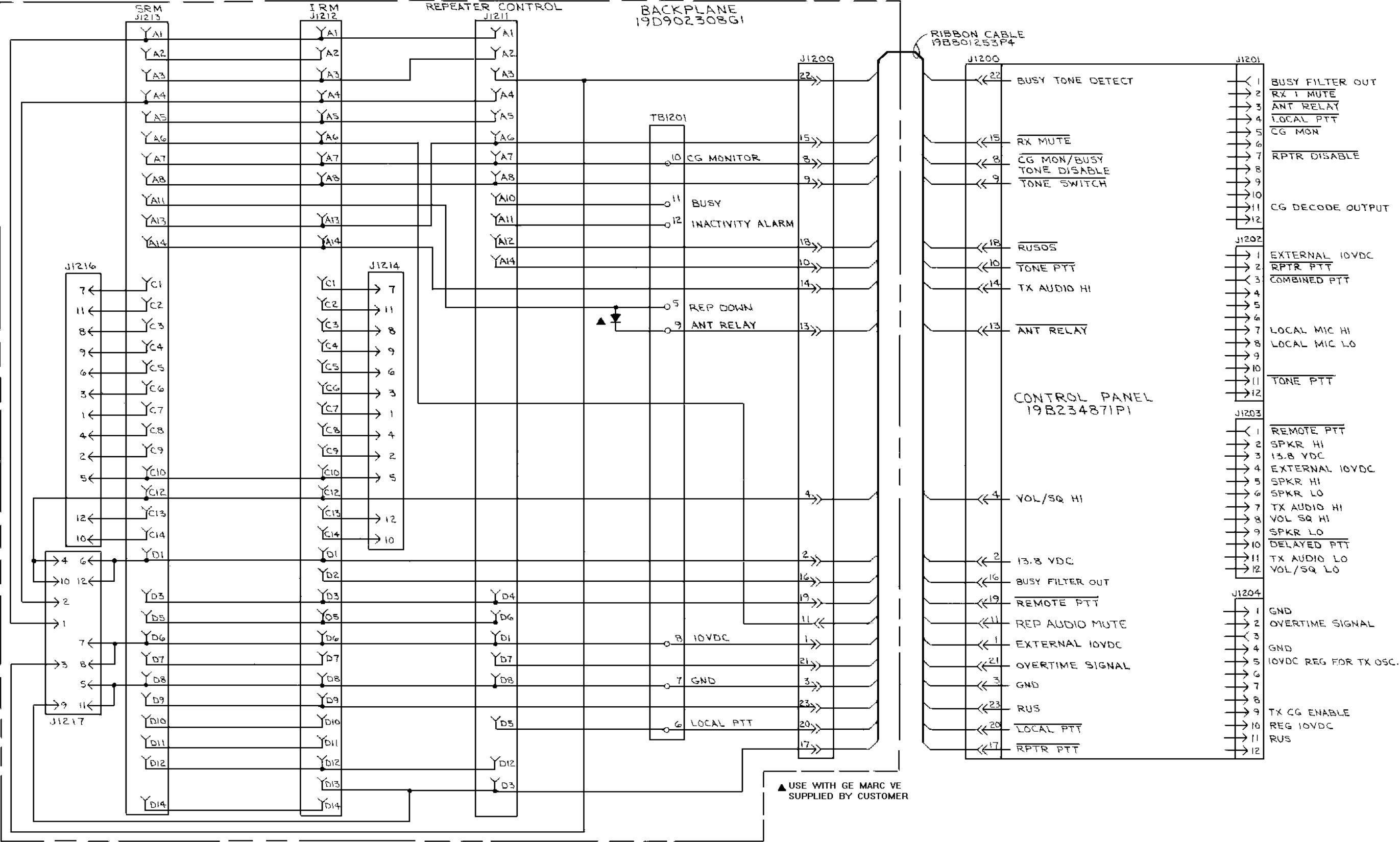
(19D902308, Sh. 1, Rev. 1)
(19D902307, Solder Side Rev. 3A)



CAUTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

GE-MARC MINI BACKPLANE
19D902308G1

RIBBON CABLE
19B801253P4

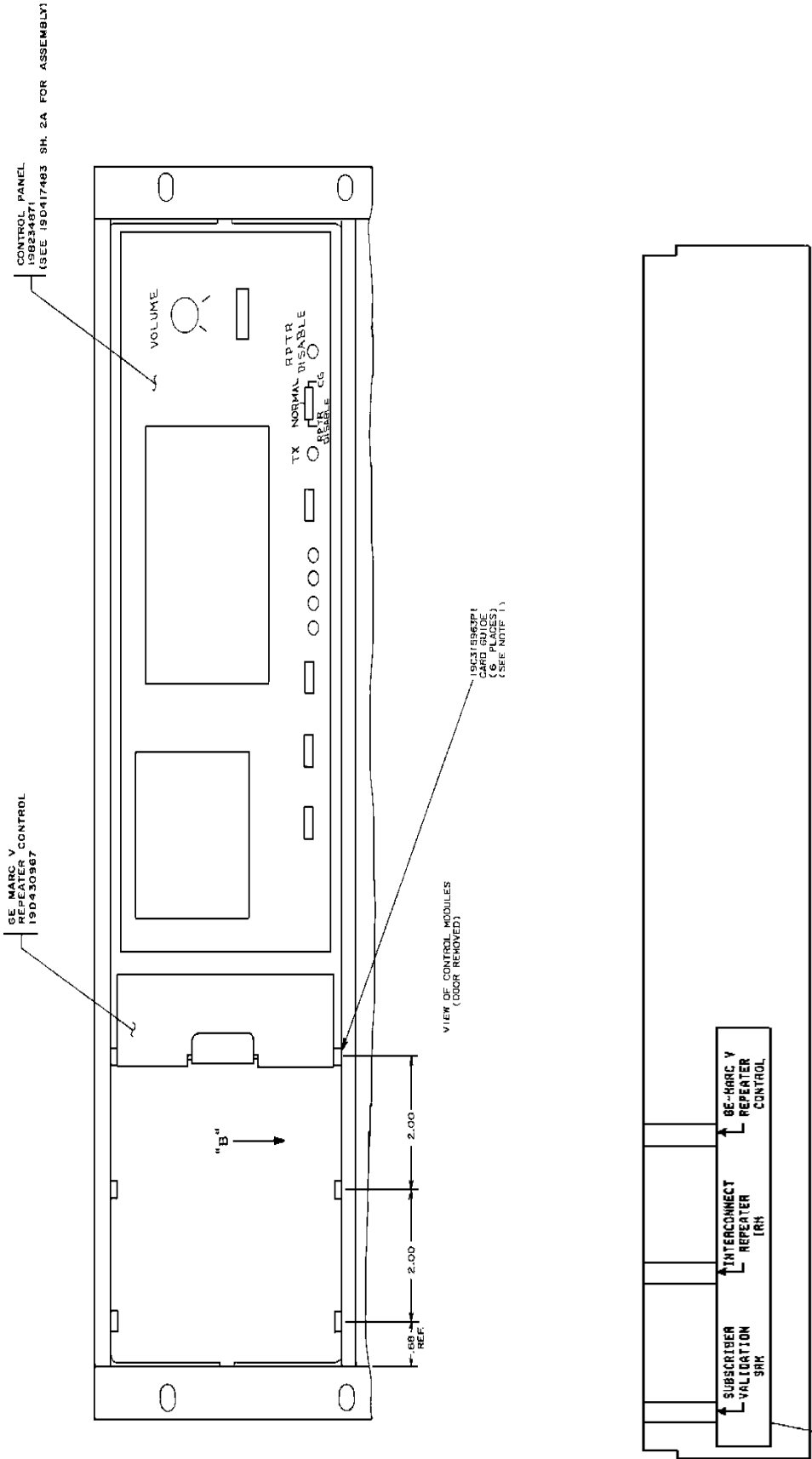


GE-MARC MINI BACKPLANE
19D902308G1

GE MARC MINI BACK PLANE
19090220801
ISSUE 1

SYMBOL	GE PART NO.	DESCRIPTION
----- JACKS -----		
J1200	19A702313P54	Connector, printed wiring, two part: 26 pins rated at 1 amp; sim to Dupont 78207-110.
J1211A	19A116446P5	Connector, printed wiring: 14 contacts rated at 3 amps.
J1211D and J1212A	19A116446P5	Connector, printed wiring: 14 contacts rated at 3 amps.
J1212C	19A116446P5	Connector, printed wiring: 14 contacts rated at 3 amps.
J1212D and J1213A	19A116446P5	Connector, printed wiring: 14 contacts rated at 3 amps.
J1213C	19A116446P5	Connector, printed wiring: 14 contacts rated at 3 amps.
J1213D	19A116446P5	Connector, printed wiring: 14 contacts rated at 3 amps.
J1214	19A116647P4	Connector, printed wiring: 12 terminals; sim to Molex 09-18-5121.
J1216	19A116647P4	Connector, printed wiring: 12 terminals; sim to Molex 09-18-5121.
J1217	19A116647P6	Connector, printed wiring: 12 terminals; sim to Molex 09-18-5927.
----- TERMINAL BOARDS -----		
TB1201	19A705820P12	Terminal board.
----- MISCELLANEOUS -----		
	19B801253P4	Cable assembly.

COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



NOTES:
1. PART OF MOTHER BD., HOM. KIT PL19A130031G3.
2. ALIGN ARROW WITH CENTER OF FIRST GUIDE WITHIN .06.

