

Maintenance Manual

MASTR® III
BASE STATION

TABLE OF CONTENTS

T/R SHELF	LBI-38637
SYSTEM MODULE	LBI-38764
POWER MODULE	LBI-38752

MASTR III STATION
ISSUE 3

SYMBOL	PART NO.	DESCRIPTION
		----- 37" CABINET -----
	19D902838P1	37-inch Cabinet.
	19C852074P1	Equipment support rail (left side).
	19C852074P2	Equipment support rail (right side).
	344A3450G1	Hardware Kit.
	344A3450G2	Hardware Kit.
	19D902422P4	Rear Door.
	19D902422P4	Front Door.
	19J706152P5	Tie Strap.
	5491682P4	Key, sim to Yale & Towne #BF-10A
	5490407P29	Grommet.
		----- 69" CABINET -----
	19D417358G3	69-inch Cabinet.
	19D417623G4	Grill, Label.
	19A130031G12	Hardware Kit.
	19B226318P2	Plate.
	19B801476P1	Cover.
	19B801476P2	Cover.
	19B209539P1	Lock, rim.
	19B209539P2	Lock, rim.
	19B209539P3	Key, lock, rim.
	344A3450G21	Hardware Kit.
	5490407P29	Grommet.
		----- 83" CABINET -----
	19D902663G1	83-inch Cabinet.
	19C337428G1	Door.
	19C337428G2	Door.
	19B801476P1	Cover.
	19B801476P2	Cover.
	19B209539P2	Lock, rim.
	19B209239P2	Lock, rim.
	19B209539P3	Key, lock, rim.
	19B226318P2	Plate.
	344A2450P21	Hardware Kit.
		----- CABLES -----
	19B235871P1	Power Cable: Station Power Supply (J801) to T/R Shelf (A2-P102).
	19B801454P17	RF Cable: Low Pass Filter (J1) to Power Amplifier (J104). Replaced by 19B801454P43.
	19B801454P20	RF Cable: T/R Shelf (J2) to Duplexer Shelf (J2) (Used when Duplexer is installed).
	19B801454P19	RF Cable: T/R Shelf (J2) to Antenna Switch (J2).
	19B801454P16	RF Cable: T/R Shelf (J1) to Power Amplifier (J101).
	19B801454P43	RF Cable: Low Pass Filter (J1) to Power Amplifier (J104).

*COMPONENTS, ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

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INTRODUCTION

This manual contains information for the MASTR III Station including application information, cable diagrams and a parts list for the cabinet hardware. For additional information refer to the following manuals:

LBI-38636	Installation	How to install including Interconnection Diagrams.
LBI-39074	Installation	Installation, Configuration and Checkout for EDACS Basic or Level 1 System.
LBI-38754	VHF RF Package	Information on the VHF frequency equipment.
LBI-38675	UHF RF Package	Information on the UHF frequency equipment.
LBI-39025	800 MHz RF Package	Information on the 800 MHz frequency equipment.
LBI-38983	Antenna Systems	Information on typical antenna system installations.
LBI-38812	EDACS Interface Panels	Information on the panel used in EDACS applications.
LBI-38894	GETC	Information on the GETC equipment.
LBI-38625	Charger/Emer. Power	Information on the battery charger and emergency power equipment.

APPLICATIONS

OPTION NUMBER	APPLICATION ASSEMBLY	DESCRIPTION
SXCAIS	19D902845P1	Installation of one MASTR III station in a 37" indoor cabinet.
SXRB1J	19D902845P2	Installation of T/R shelf for MASTR III station.
SXSU3A	19D902845P3	Installation of coax switch.
SXDU1J	19D902845P4	Installation of VHF (150-162 MHz) duplexer.
SXDU1K		Installation of VHF (162-174 MHz) duplexer.
SXDU1M		Installation of UHF (450-470 MHz) duplexer.
SXCH1L/M	19D901845P5	Installation of battery charger with automobile battery emergency power in a 37" indoor cabinet.
SXCH1R	19D902845P6	Installation of battery charger with Gel Cell battery emergency power in a 37" indoor cabinet.
SXCH3A		
SXSU3D	19D902845P7	Installation of SOR Relay Kit.
SXMK3C	19D902845P8	Installation of MASTR II auxiliary receiver in a 37" or 69" cabinet.
	19D902845P8	Installation of MASTR III auxiliary receiver in a 37" or 69" cabinet.
SXMD3J	19D902845P9	Installation of GETC shelf in a 69" indoor cabinet.
SXVG3E	19D902845P11	Installation of GETC shelf for a E/E Voice Guard/Aegis repeater and remote/repeater in a 37" or 69" indoor cabinet.
SXVG3F		
SXVV1N	19D902845P12	Installation of E/D module (non-1027 version) in a 37" or 69" indoor cabinet.
SXVW1J		
SXVV1M		
SXVG3C	19D902845P13	Installation of E/D module (1027 version) in a 37" or 69" indoor cabinet.
SXVG3D		
SXDE5B	19D902845P14	Installation of transmit data board.
SXAP3K	19D902845P16	Installation of multi-station in a 69" or 83" indoor cabinet or open rail rack.
SXMNEY	19D902845P21	Installation in 69" indoor cabinet or open rail rack.
SXMD3M	19D902845P22	Installation of simulcast stations.
SXMD1S	19D902845P23	Installation and modification instructions for RIC telephone interconnect.
SXVT1B	19D902845P24	Modification for station receiver voting for RS-232.
	19D902845P25	Installation in 45" weatherproof cabinet.
SXVT1L	19D902845P26	Modem Voting installation.
SXCP5T	19D902845P27	CNI installation.

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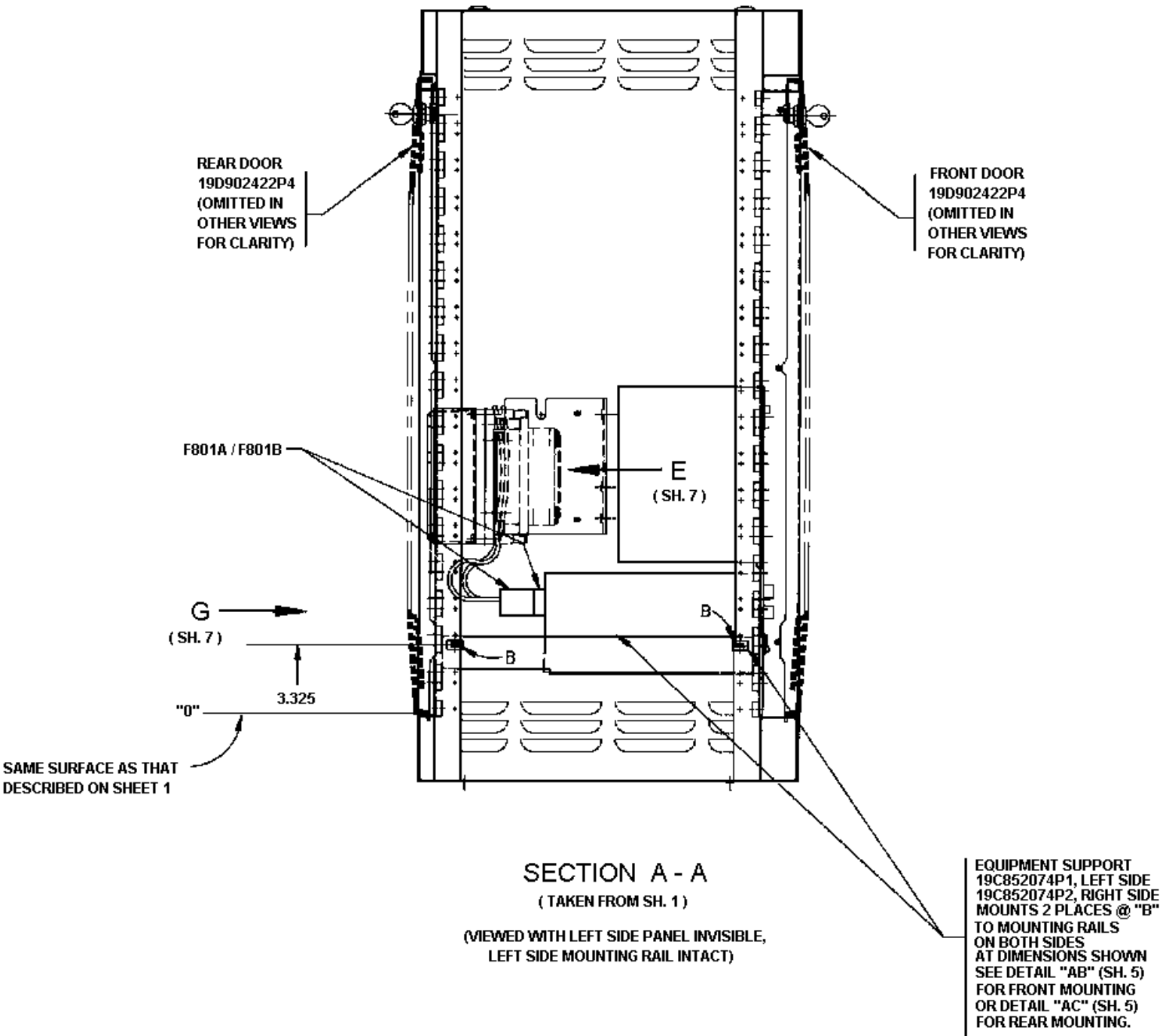


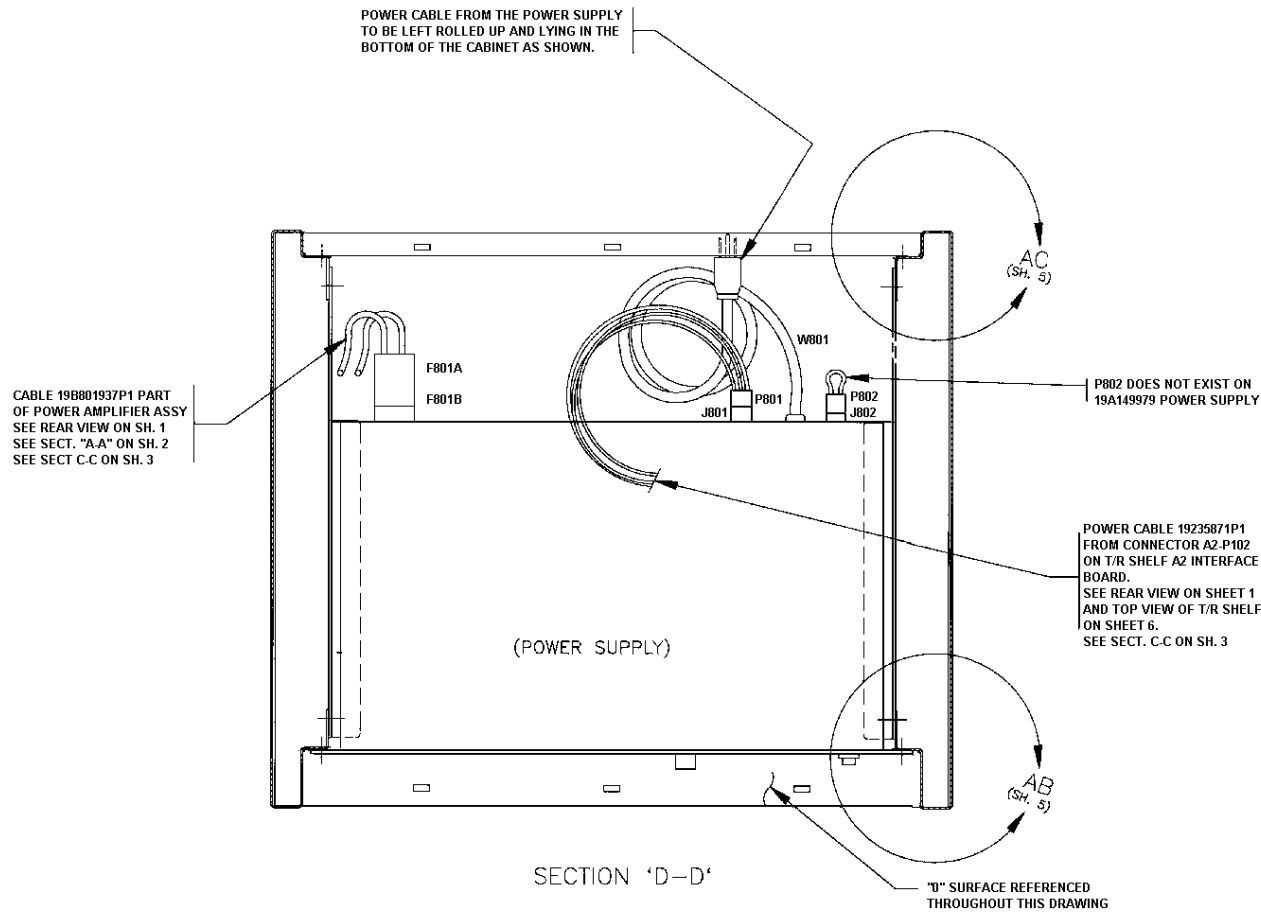
1 ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT P.L. 344A3450G1.

2. INSTALL CABLES AS SHOWN AND INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19D903635.

ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR
ON HARDWARE KIT P.L. 344A3450G2.

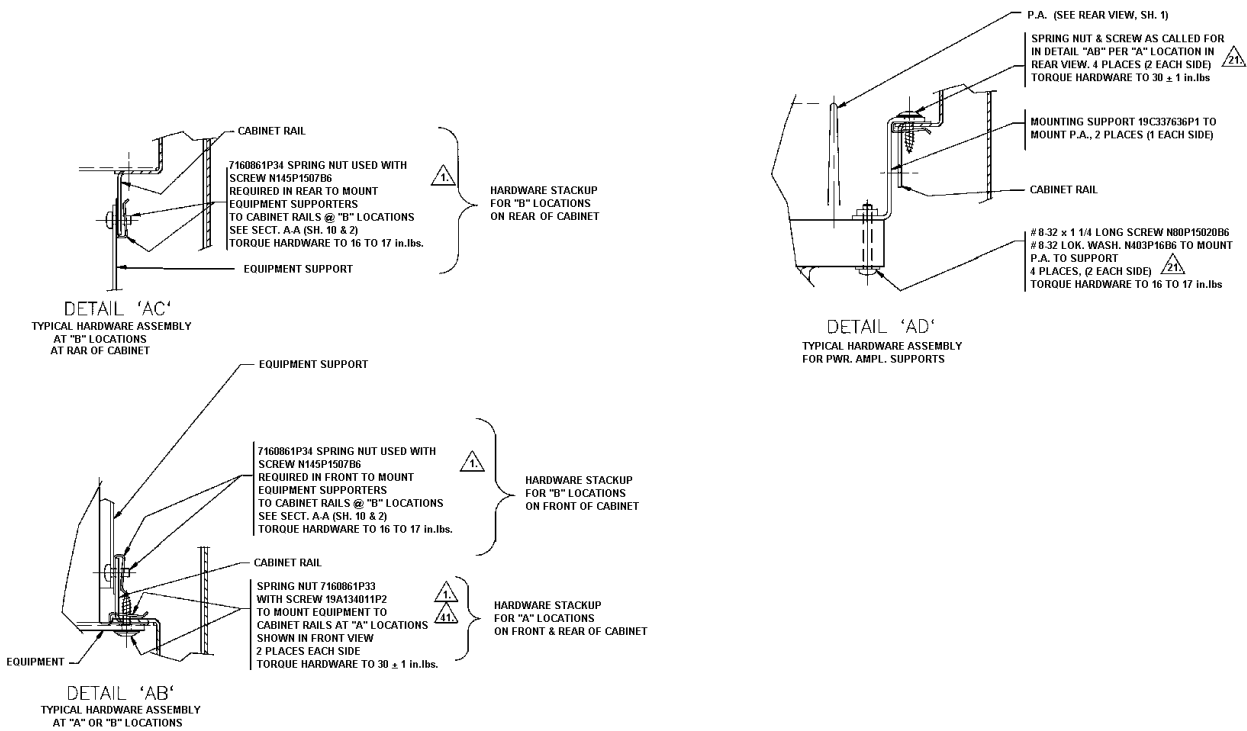
(19D902845, Sh. 1, Rev. 5)





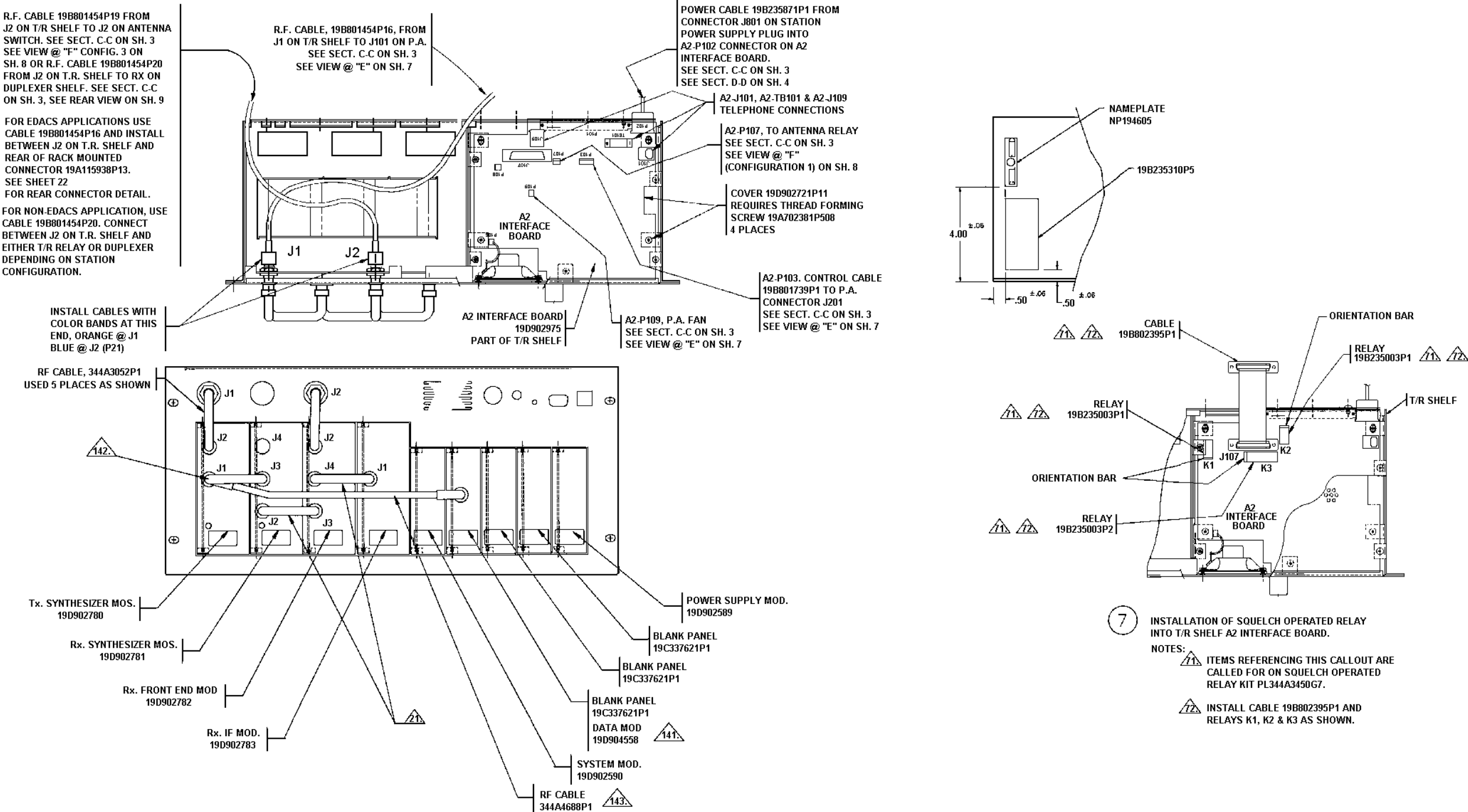
MASTR III STATION

(19D902845, Sh. 4, Rev. 1)



MASTR III STATION

(19D902845, Sh. 5, Rev. 3)



2 ASSEMBLY OF T/R SHELF FOR THE MASTR III INDOOR CABINET APPLICATION.

21 INSTALL R.F. CABLE 344A3052P3, IF SUPPLIED.

14 INSTALLATION OF DATA MODULE.

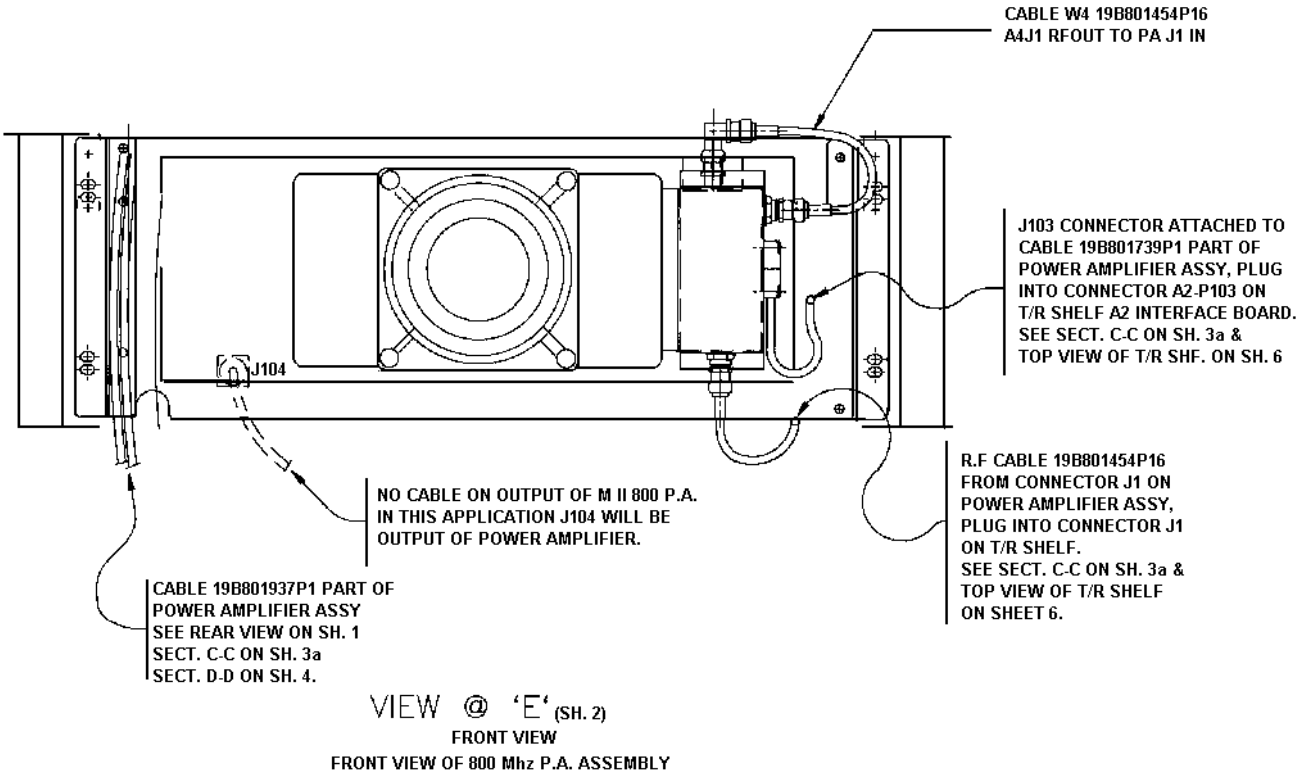
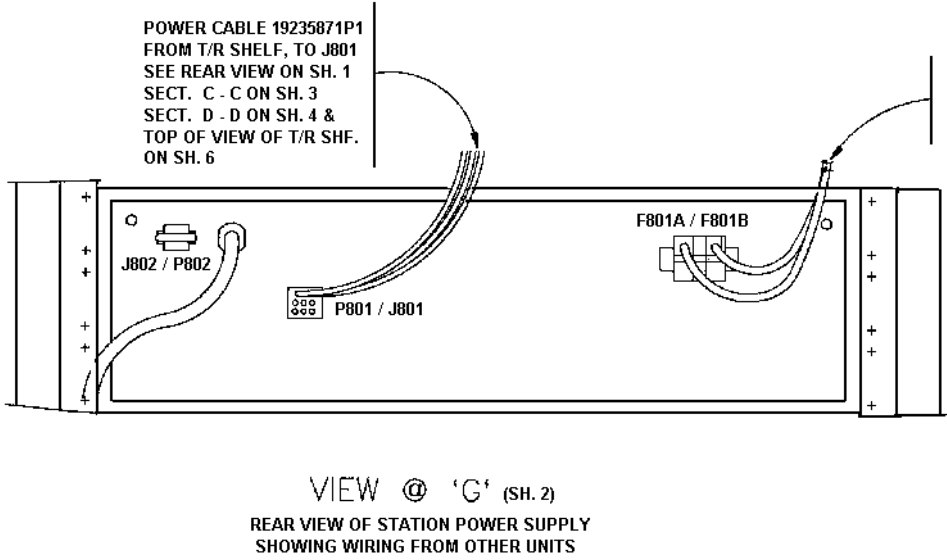
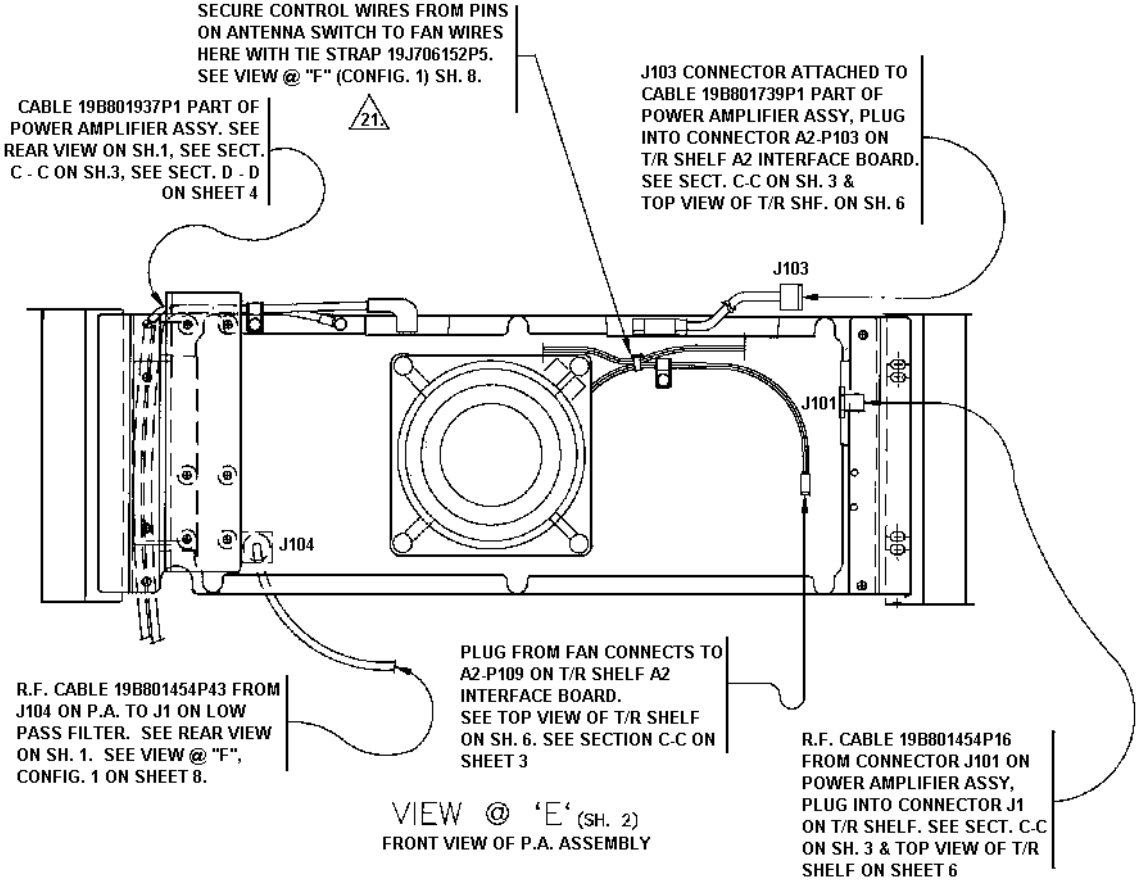
- NOTES:
- 141 INSTALL DATA MODULE IN SLOT AS SHOWN.
 - 142 DELETE RF CABLE 344A3052P1 FROM TX SYN MOD TO RX SYN MOD.
 - 143 CONNECT 344A4688P1 RF CABLE FROM TX SYN MOD TO DATA MODULE AS SHOWN.

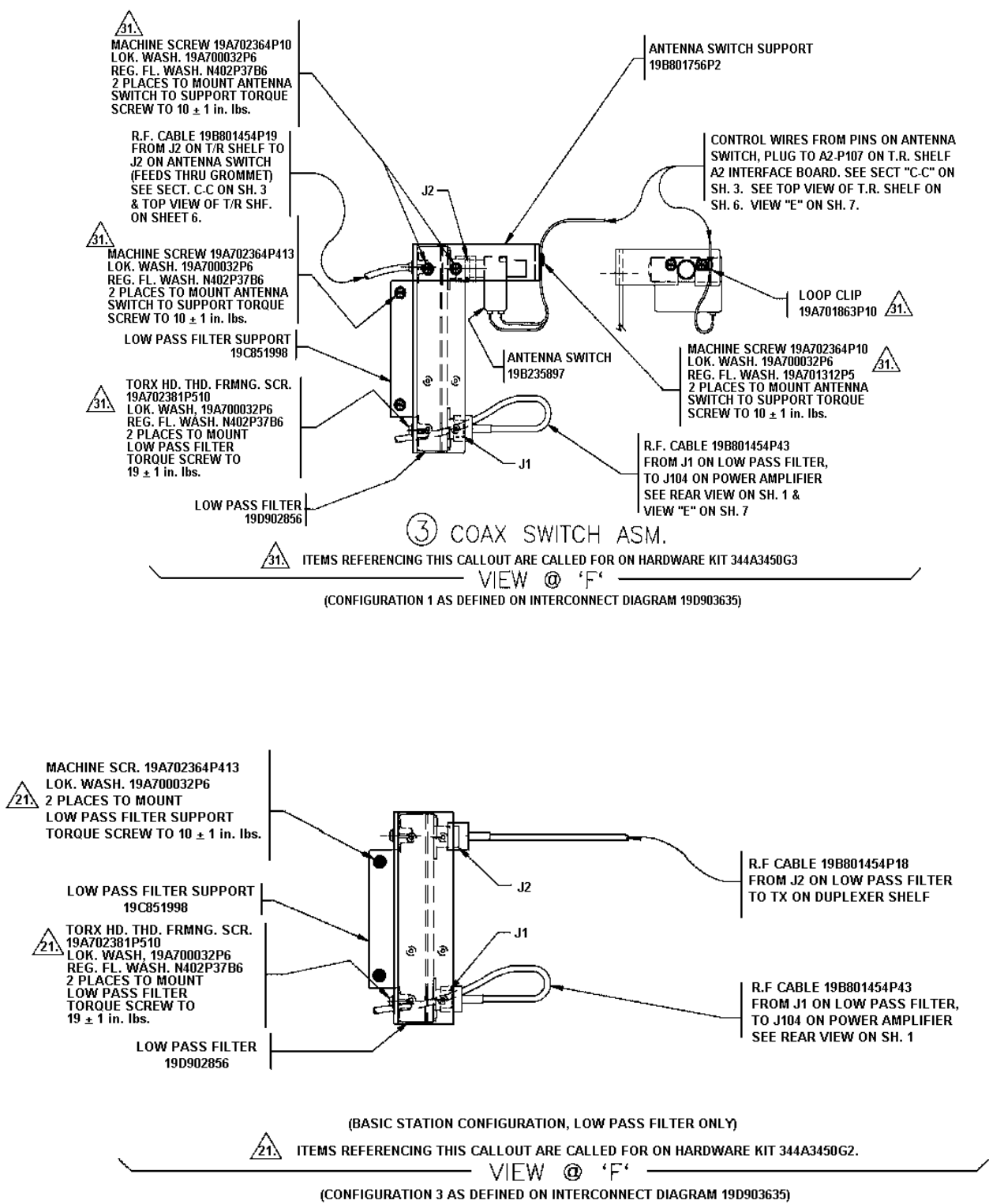
7 INSTALLATION OF SQUELCH OPERATED RELAY INTO T/R SHELF A2 INTERFACE BOARD.

- NOTES:
- 71 ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON SQUELCH OPERATED RELAY KIT PL344A3450G7.
 - 72 INSTALL CABLE 19B802395P1 AND RELAYS K1, K2 & K3 AS SHOWN.

MASTR III STATION
19D902845P2, P7 & P14

(19D902845, Sh. 6, Rev. 8)



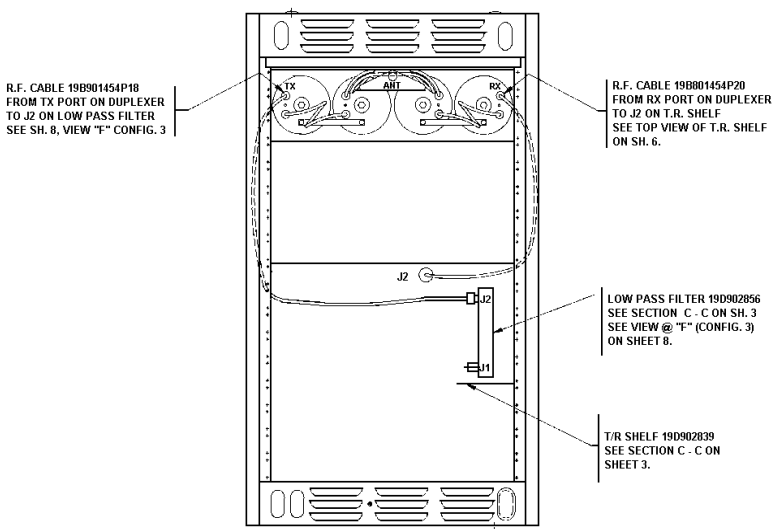
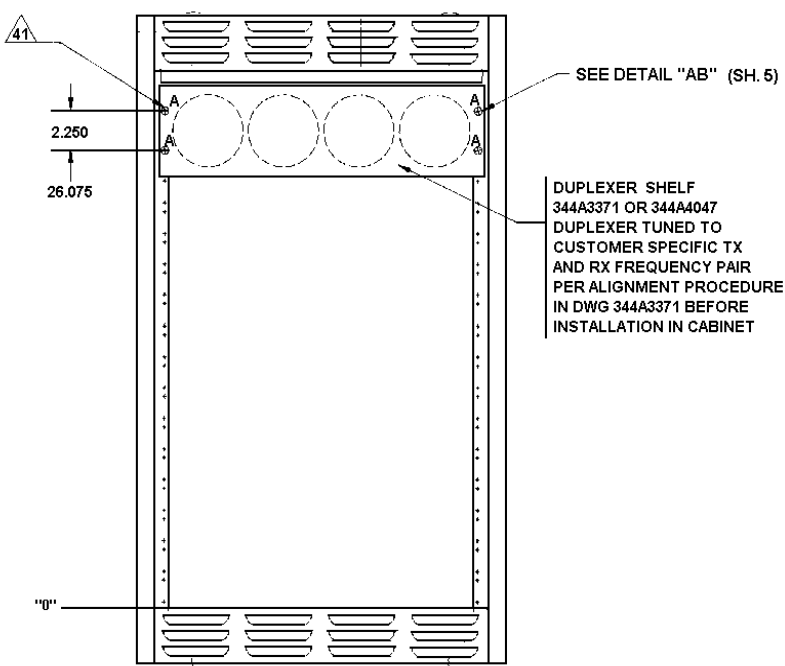


**MASTR III STATION
19D902845P3**

(19D902845, Sh. 8, Rev. 5)

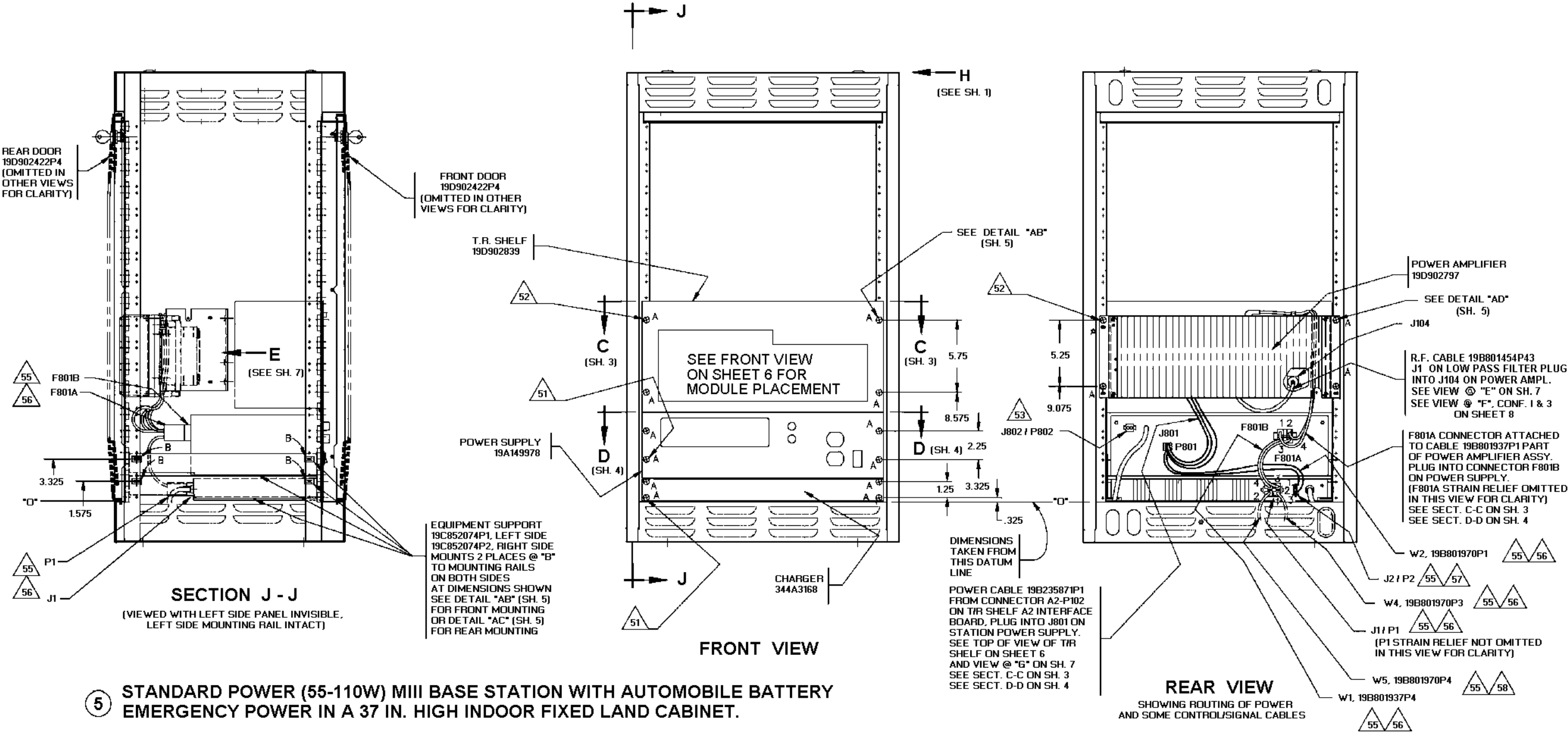
**MASTR III STATION
19D902854P4**

(19D902845, Sh. 9, Rev. 3)



**④ 37in. HIGH INDOOR FIXED LAND CABINET
MASTR III STATION WITH DUPLEXER SHELF**

- NOTES:
41. ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT P.L. 344A3450G4.
 2. INSTALL CABLES AS SHOWN AND INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19D903635 (CONFIGURATION 3).



NOTES:

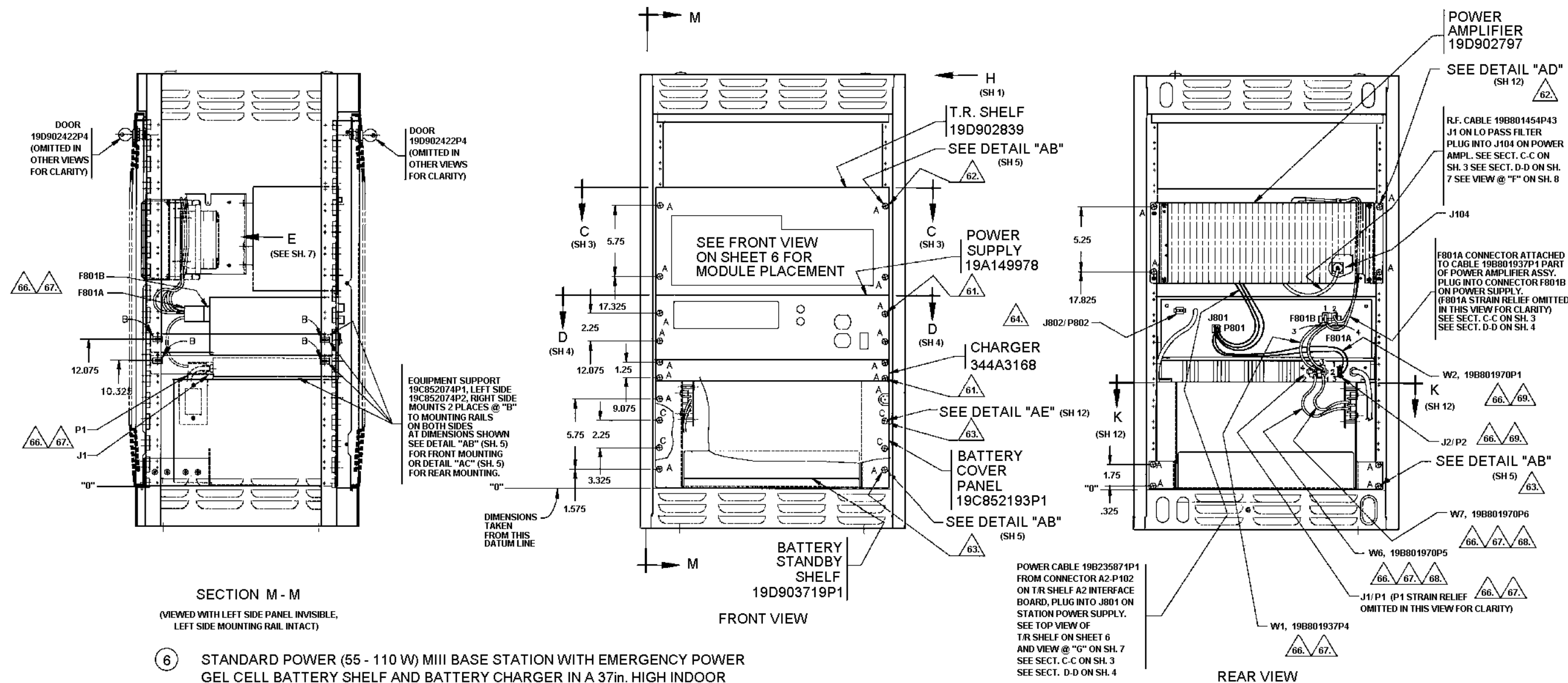
51. ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT PL344A3450G1.
52. ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT PL344A3450G2.
53. REMOVE P802 FROM J802 ON POWER SUPPLY 19A149978.
54. INSTALL CABLES AS SHOWN AND INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19D903635. SEE ALSO NOTES 55, 56, & 57.
55. INTERCONNECTION OF CABLES IN NOTES 56 & 57 TO BE CONSISTENT WITH INTERCONNECT DRAWING 19D903635.

56. REMOVE F801A OF PA LEAD ASSEMBLY 19B801937P1 FROM F801B OF POWER SUPPLY. REMOVE STRAIN RELIEFS FROM F801A AND FROM P1 OF W1. INSERT THE BROWN WIRE OF W1 INTO THE NUMBER 3 CAVITY OF F801A. INSERT THE BLACK WIRE OF W1 INTO THE NUMBER 4 CAVITY OF F801A. INSERT THE CONTACT END OF W4 INTO THE NUMBER 1 CAVITY OF P1 OF W1. INSERT THE CONTACT END OF W5 INTO THE NUMBER 2 CAVITY OF P1 OF W1. REINSTALL STRAIN RELIEFS FOR P1 OF W1 AND F801A. PLUG P1 OF W1 INTO J1 OF THE CHARGER. PLUG F801A INTO F801B OF THE POWER SUPPLY. CABLES W4 AND W5 ARE TO BE LEFT ROLLED UP AND LYING ON THE FLOOR OF THE CABINET.
57. PLUG P2 OF W2 INTO J2 ON THE CHARGER. INSERT THE ORANGE WIRE OF W2 INTO THE NUMBER 8 CAVITY OF P801 OF CABLE ASSEMBLY 19B23587IP1. INSERT THE BLACK WIRE OF W2 INTO THE NUMBER 9 CAVITY OF P801 OF CABLE ASSEMBLY 19B23587IP1.

58. FOR 13 INCH DEEP CABINET MOUNTING, USE REAR SUPPORTS 19B226160 SUPPLIED WITH HARDWARE KIT 344A3696G1. RETURN ANY UNUSED SUPPORTS TO STOCK.

MASTR III STATION
19D902845P5

(19D902845, Sh. 10, Rev. 2)



6 STANDARD POWER (55 - 110 W) MIII BASE STATION WITH EMERGENCY POWER GEL CELL BATTERY SHELF AND BATTERY CHARGER IN A 37in. HIGH INDOOR FIXED LAND CABINET.

NOTES:

- 61.
- 62.
- 63.
- 64.
- 65.
- 66.

ITEMS REFERENCING THIS CALLED OUT ARE CALLED FOR ON HARDWARE KIT PL344A3450G1.
ITEMS REFERENCING THIS CALLED OUT ARE CALLED FOR ON HARDWARE KIT PL344A3450G2.
ITEMS REFERENCING THIS CALLED OUT ARE CALLED FOR ON HARDWARE KIT PL344A3450G5.
REMOVE P802 FROM J802 ON POWER SUPPLY 19A149978.
INSTALL CABLES AS SHOWN AND INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19D903635. SEE ALSO NOTES 66, 67, 68 & 69.
INTERCONNECTION OF CABLES IN NOTES 67, 68 & 69 TO BE CONSISTENT WITH INTERCONNECTION DRAWING 19D903635.

- 67.
- 68.

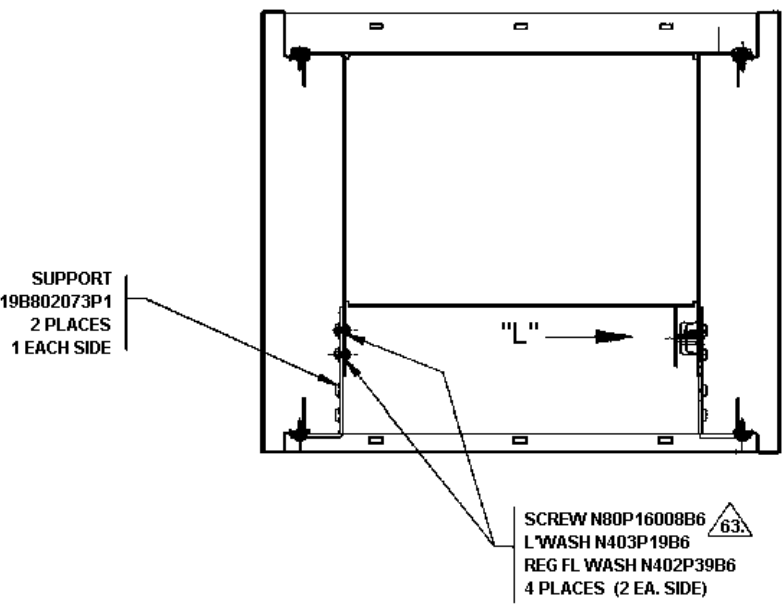
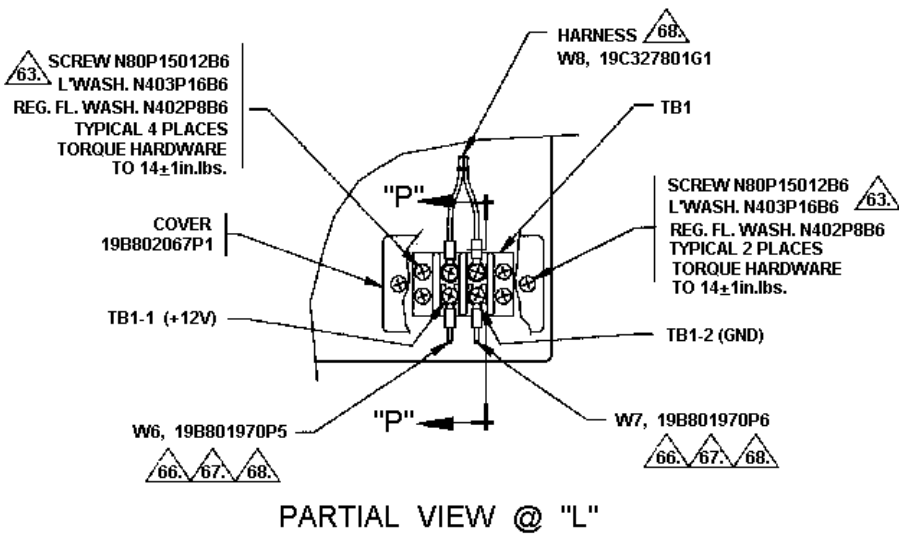
REMOVE STRAIN RELIEFS FROM F801A OF THE PA LEAD ASSEMBLY, 19B801937P1. AND FROM P1 OF W1 (19B801937P4). INSERT THE BROWN WIRE OF W1 INTO THE NUMBER 3 CAVITY OF F801A. INSERT THE BLACK WIRE OF W1 INTO THE NUMBER 4 CAVITY OF F801A. INSERT THE HERMAPHRODITIC CONTACT OF W6 (19B801970P5) INTO THE NUMBER 1 CAVITY OF P1 OF W1. INSERT THE HERMAPHRODITIC CONTACT OF W7 (19B801970P6) INTO THE NUMBER 2 CAVITY OF P1 OF W1. REINSTALL STRAIN RELIEFS FOR P1 OF W1 AND F801A OF THE PA LEAD ASSEMBLY. PLUG P1 OF W1 INTO J1 OF THE CHARGER. PLUG F801A INTO F801B OF THE POWER SUPPLY.
CONNECT W6 TO THE " +12V " TERMINAL OF THE W8 (19C327801G1) TERMINAL BOARD. (TB1-1).
CONNECT W7 TO THE " GND " TERMINAL OF THE W8 (19C327801G1) TERMINAL BOARD. (TB1-2).

- 69.

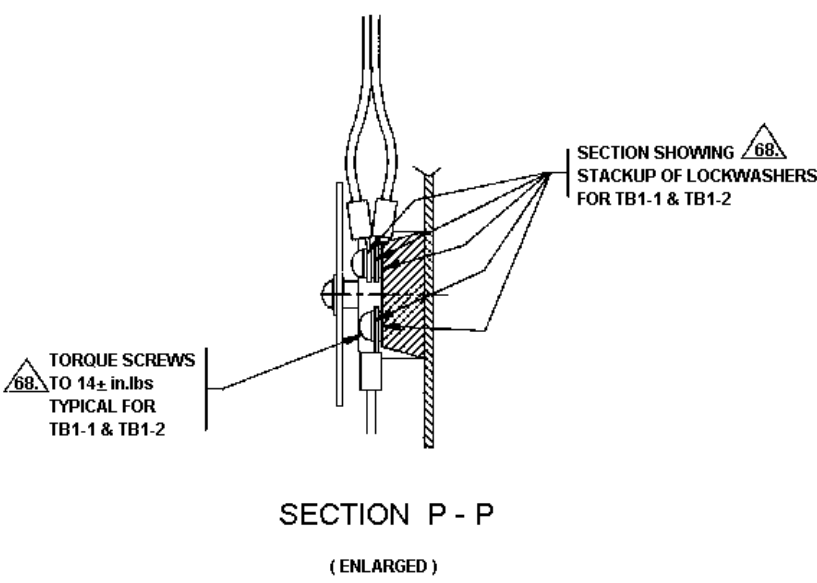
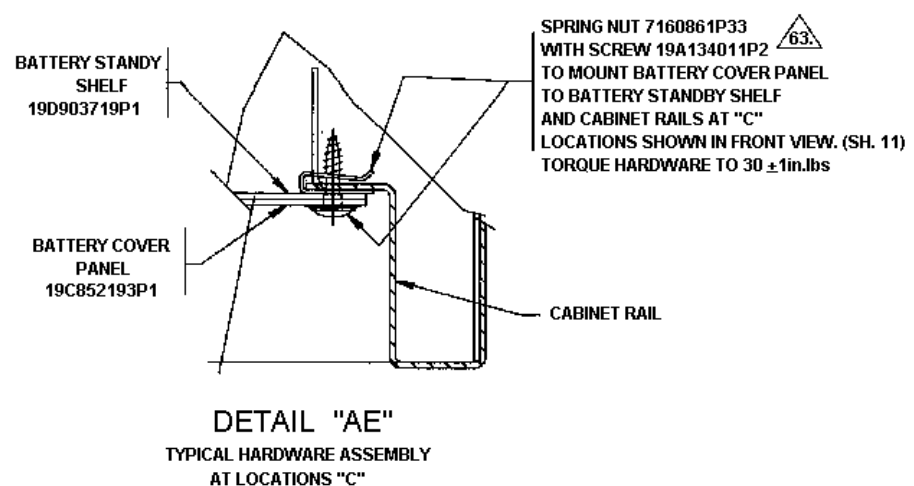
PLUG P2 OF W2 (19B801970P1) INTO J2 ON THE CHARGER. INSERT THE ORANGE WIRE OF W2 INTO THE NUMBER 8 CAVITY OF P801 OF CABLE ASSEMBLY 19B235871P1. INSERT THE BLACK WIRE OF W2 INTO THE NUMBER 9 CAVITY OF P801 OF CABLE ASSEMBLY 19B235871P1.

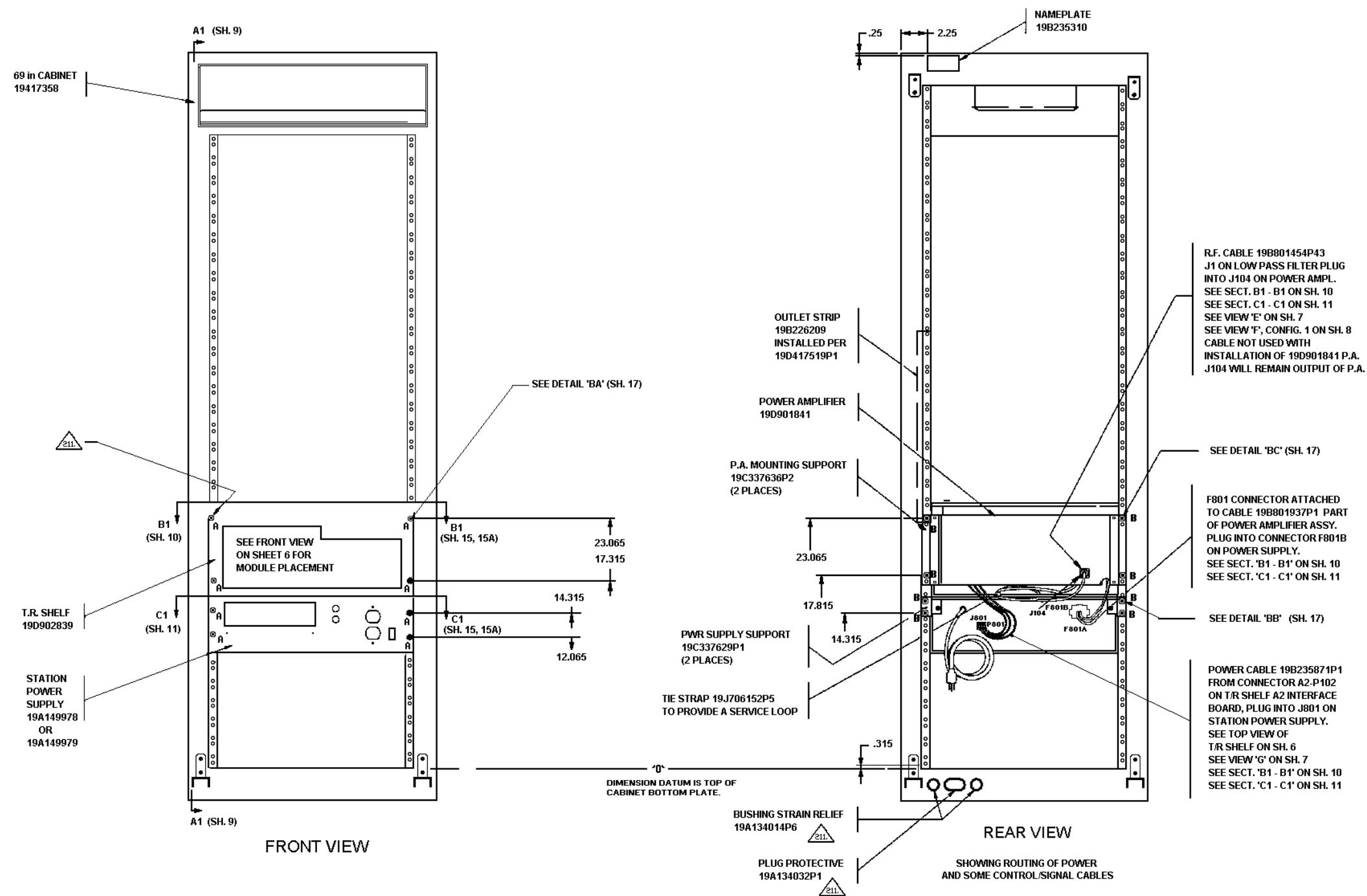
MASTR III STATION
19D902845P6

(19D902845, Sh. 11, Rev. 1)



SECTION K - K





21 69 in. HIGH INDOOR FIXED LAND CABINET WITH
(1) MASTR III TRANSMIT/RECEIVE BASE STATION

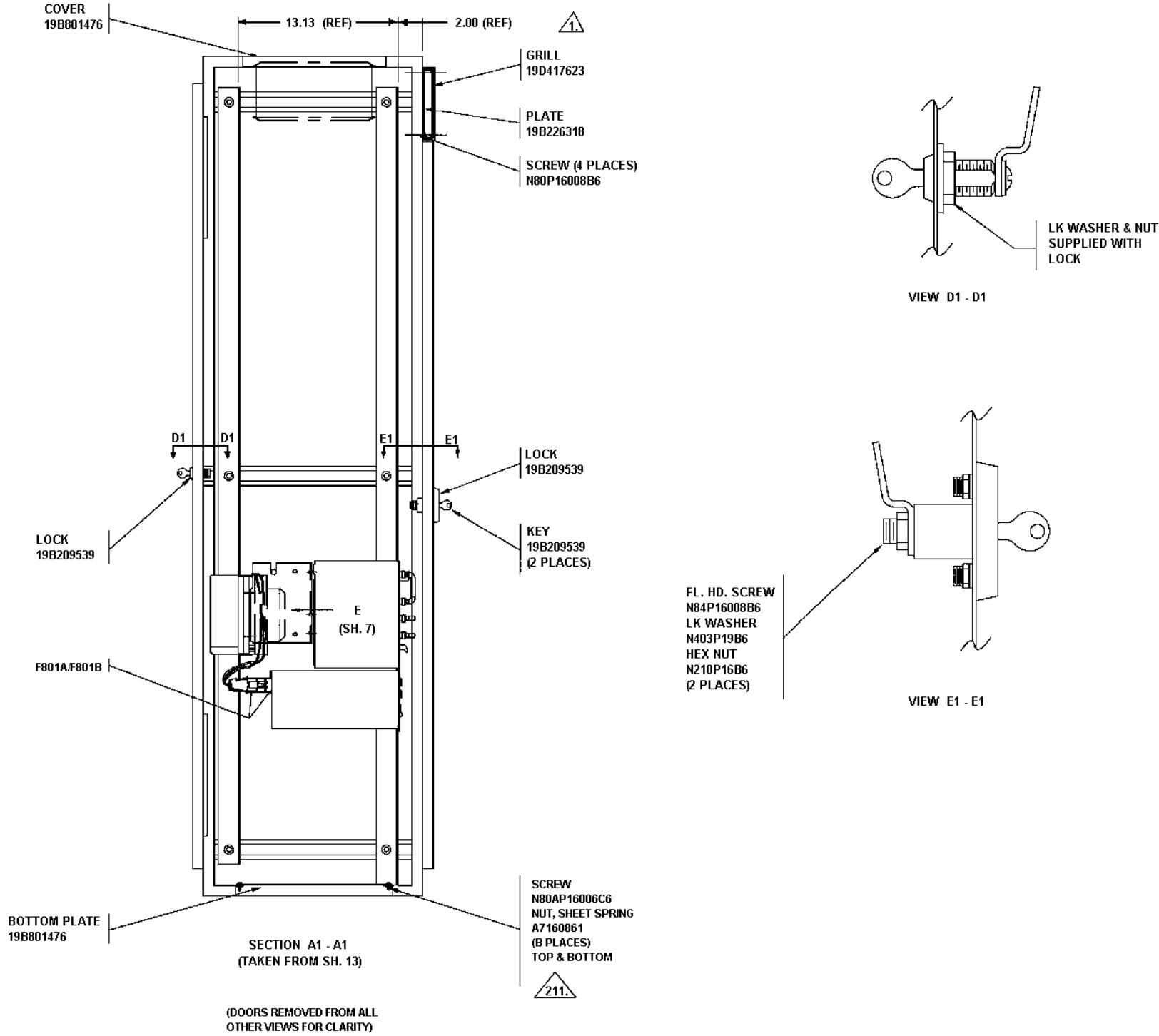
211. ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON
HARDWARE KIT P.L. 344A3450G21.

212. INSTALL CABLES AS SHOWN AND INTERCONNECT IN
ACCORDANCE WITH INTERCONNECT DIAGRAM 19D903635.

213. IF ADDITIONAL CONVENTIONAL STATION IS SUPPLIED TO
BE MOUNTED IN CABINET, MOUNT FIRST STATION AS SHOWN
AND SECOND STATION 3 RACK UNITS ABOVE FIRST STATION.

MASTR III STATION
19D902845P21

(19D902845, Sh. 13, Rev. 2)

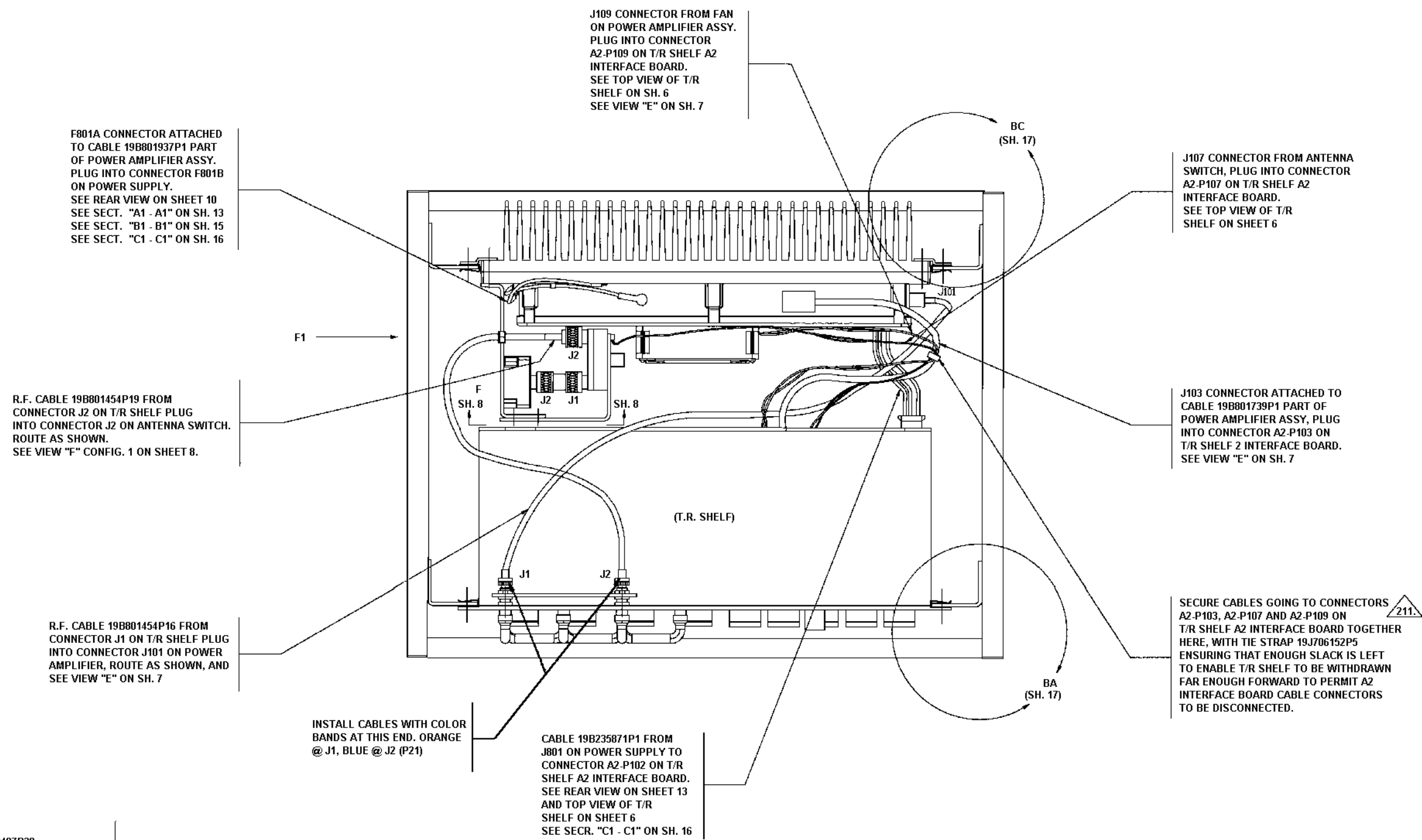


NOTES:

1 IF ERICSSON NAMEPLATE IS SUPPLIED, RETURN
GE NAMEPLATE TO STOCK OR DISCARD.

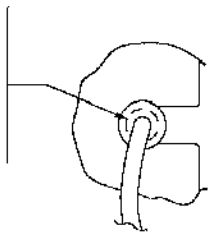
MASTR III STATION

(19D902845, Sh. 14, Rev. 3)



GROMMET, 549D407P29
CUT THRU GROMMET,
SLIP OVER CABLE,
AND SLIDE ENTIRE
ASSEMBLY INTO SLOT
ON SUPPORT AS SHOWN

31. (SEE SHEET 8)

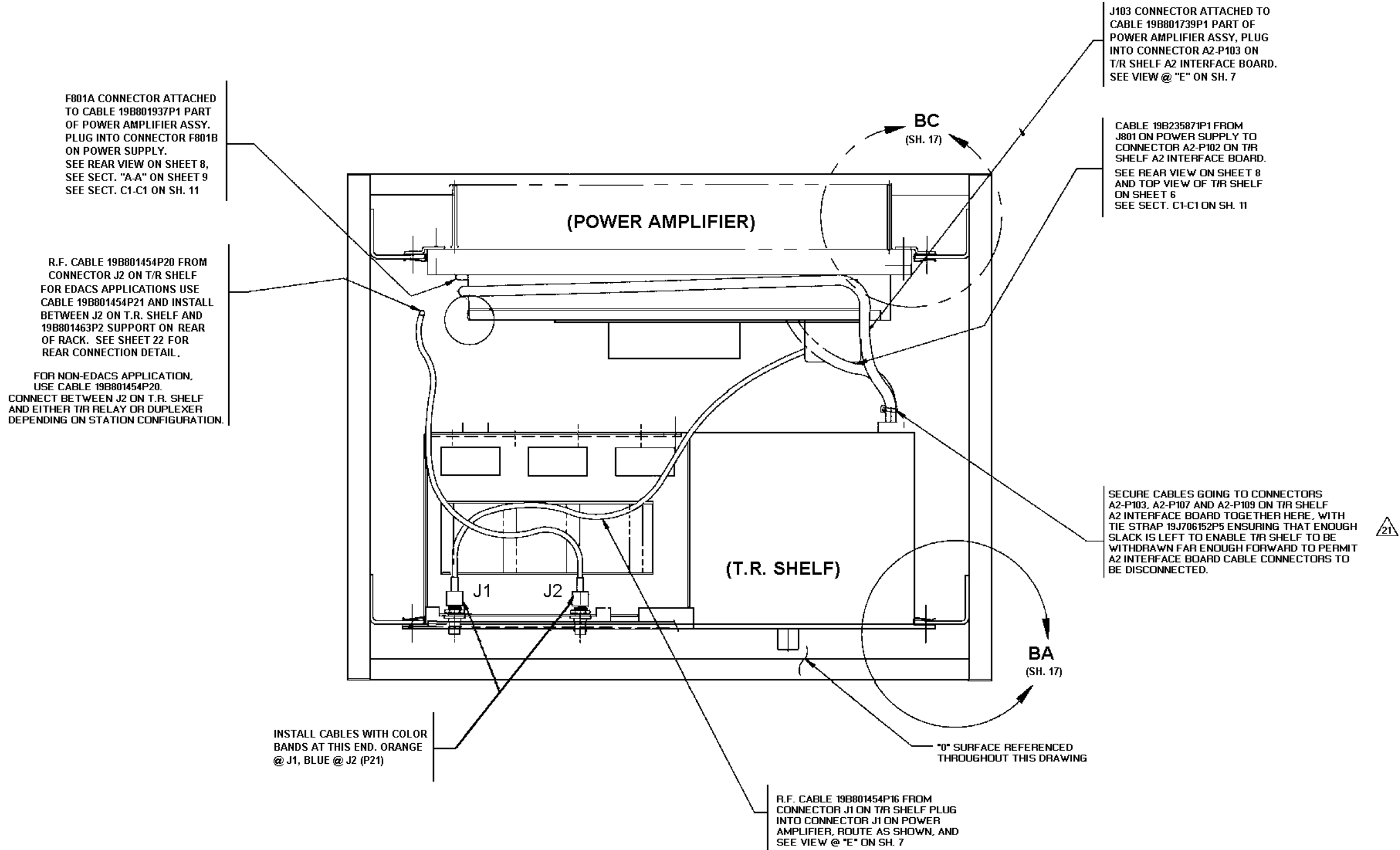


VIEW AT "F1"

SECTION "B1 - B1 "

MASTR III STATION

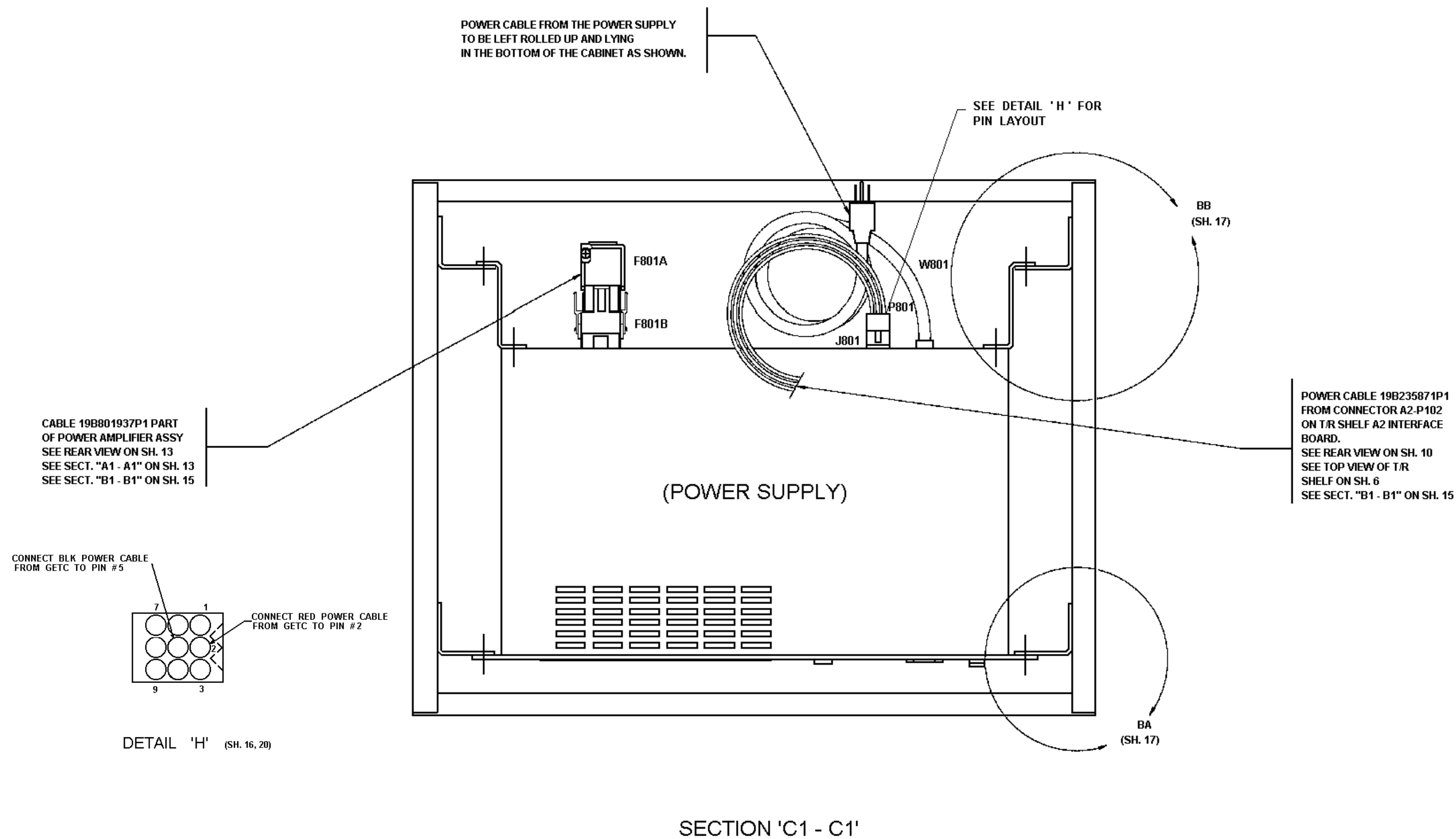
(19D902845, Sh. 15, Rev. 3)



SECTION B1 - B1
800 MHz PA ASSEMBLY

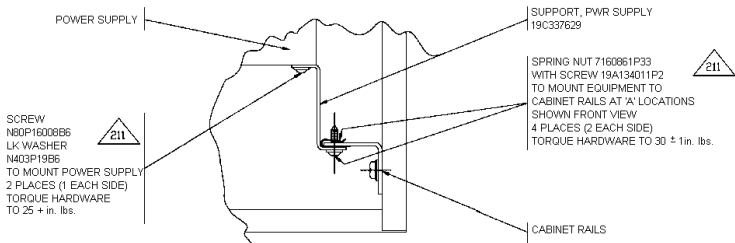
MASTR III STATION

19D902845, Sh. 15A, Rev. 3)

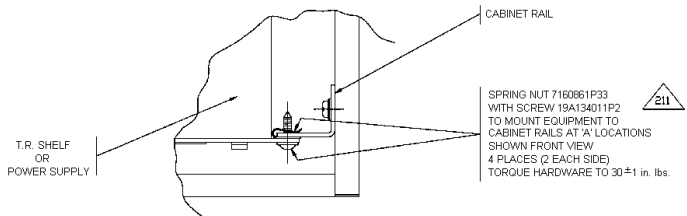


MASTR III STATION

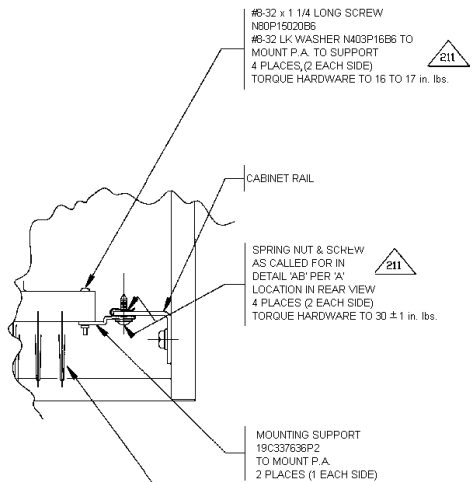
(19D902845, Sh. 16, Rev. 2)



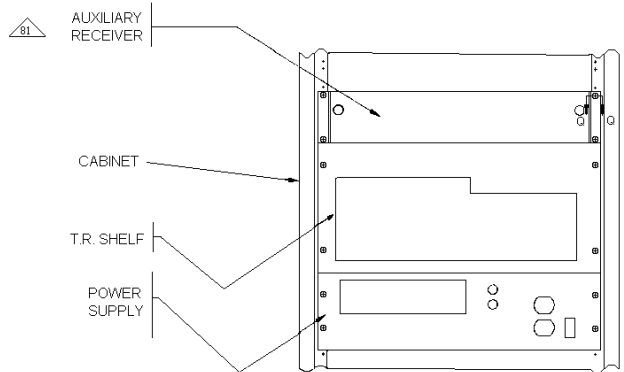
DETAIL BB
TYPICAL HARDWARE ASSEMBLY
AT 'B' LOCATIONS AT REAR
OF CABINET.



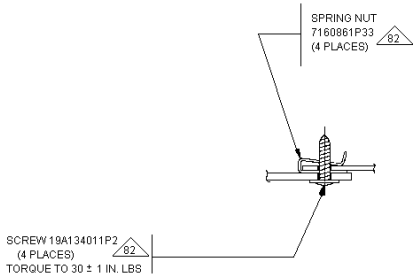
DETAIL BA
TYPICAL HARDWARE ASSEMBLY
AT 'A' LOCATIONS AT FRONT
OF CABINET.



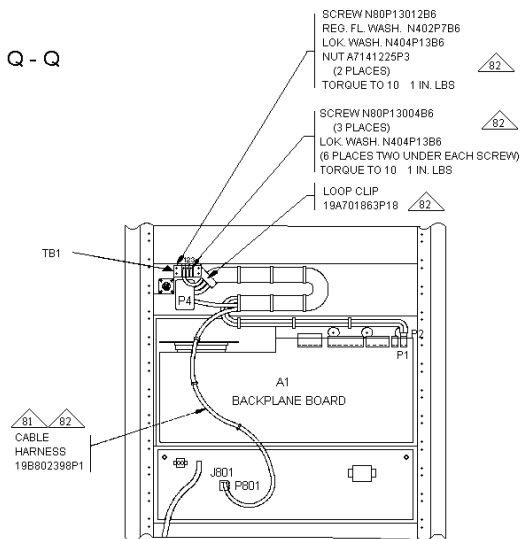
DETAIL BC
TYPICAL HARDWARE ASSEMBLY
AT 'B' LOCATIONS AT REAR
OF CABINET.



PARTIAL FRONT VIEW OF CABINET



PARTIAL SECTION Q - Q



PARTIAL REAR VIEW OF CABINET

8 37 AND 69 INCH. HIGH INDOOR FIXED LAND CABINETS
MASTR III STATION WITH AUXILIARY RECEIVER.

NOTES:

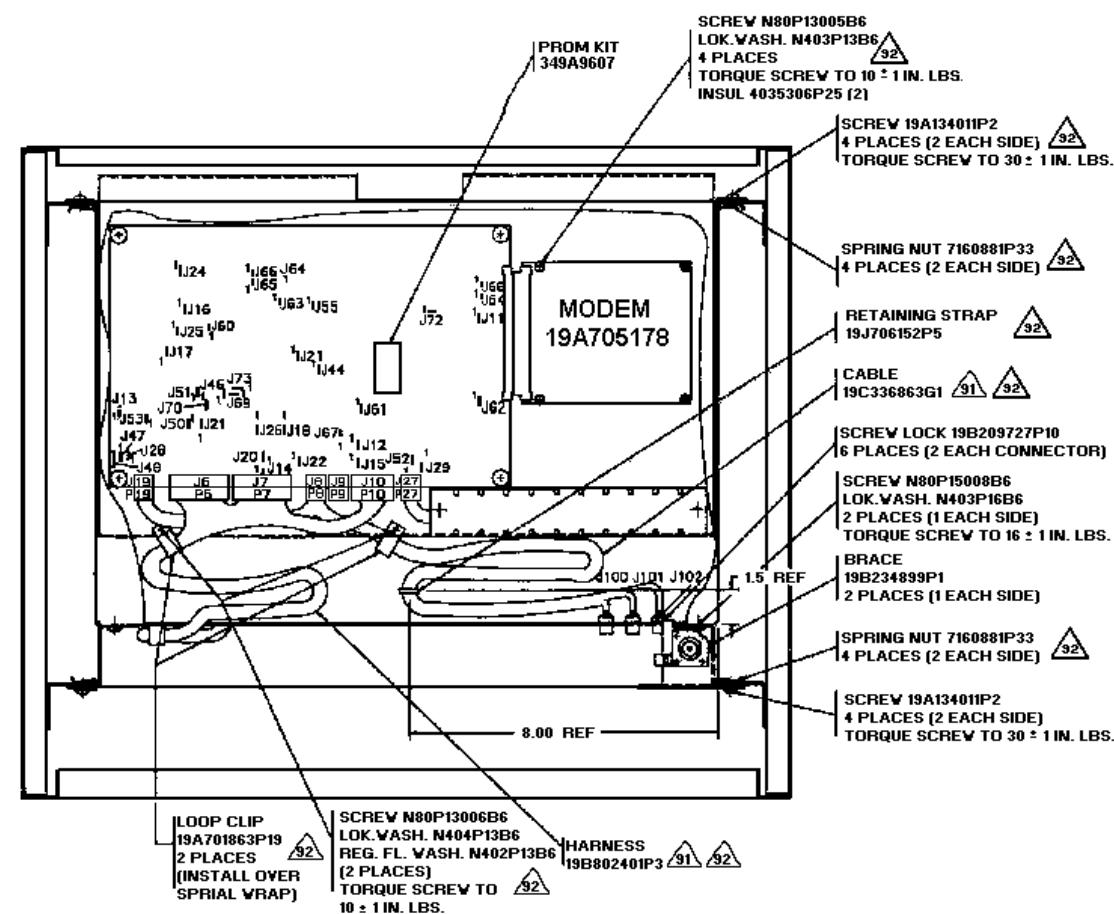
- 81 INSTALL THE AUXILIARY RECEIVER SHELF AND CABLE HARNESS 19B802398P1 AS SHOWN. INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19B802439.
- 82 ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT PL344A345008.

MASTR III STATION

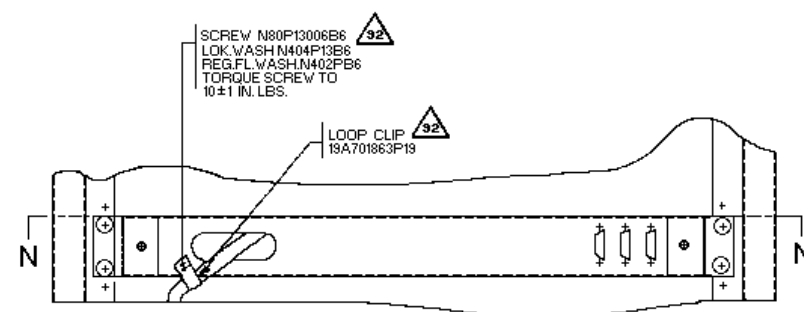
(19D902845, Sh. 17, Rev. 1)

MASTR III STATION WITH
MASTR II AUXILIARY RECEIVER
19D902845P8

(19D902845, Sh. 18, Rev. 3)



SECTION N - N



PARTIAL REAR VIEW OF CABINET

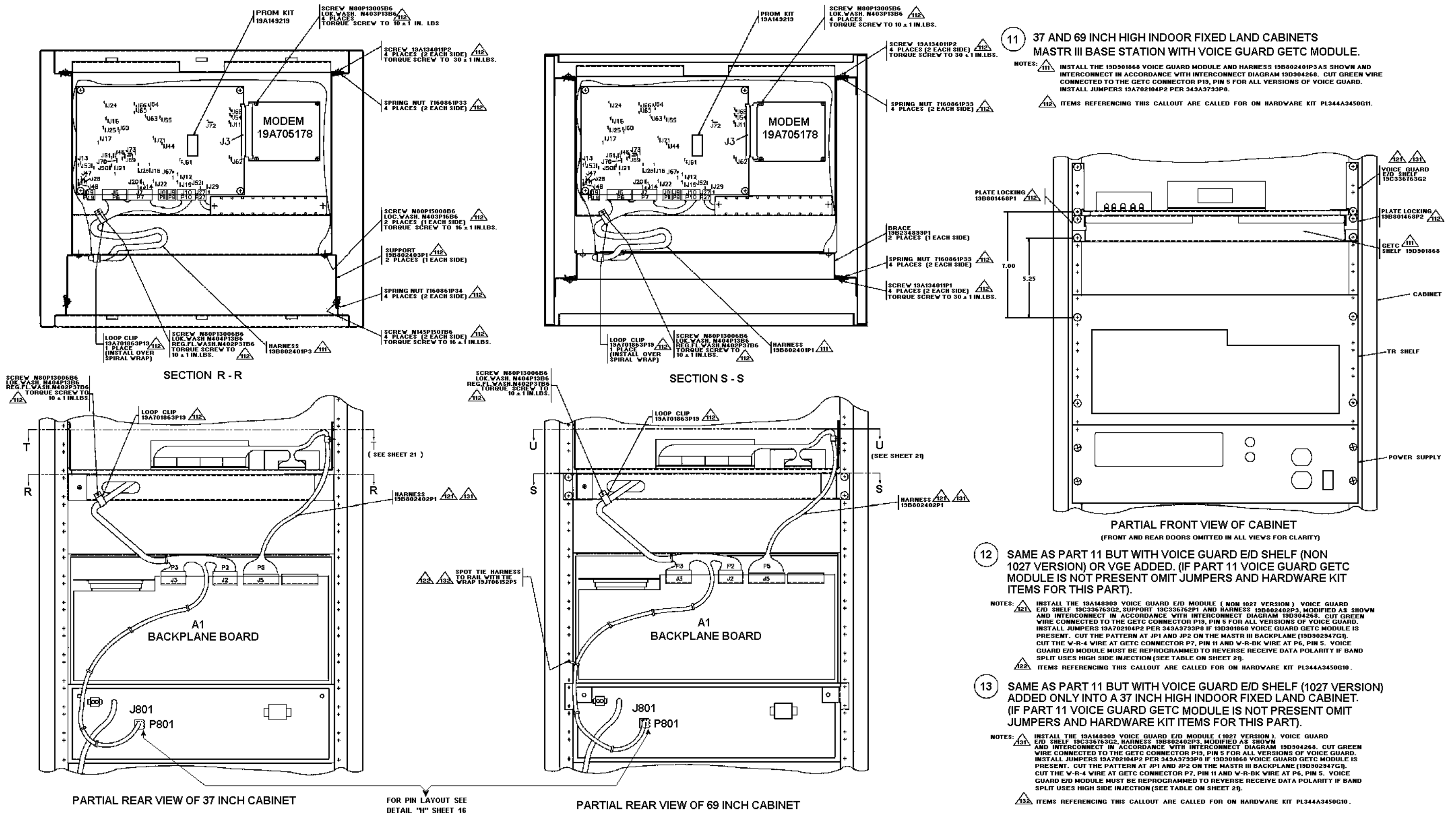
9 69 INCH HIGH INDOOR FIXED LAND CABINET
MASTR III BASE STATION WITH GETC SHELF.

NOTES:

91. INSTALL THE GETC SHELF 19D901868, HARNESS 19B802401P3 AND CABLE 19C336863G1 AS SHOWN AND INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19D904268. INSTALL JUMPERS 19A702104P2 PER 343A3793P13. 19B802401P3 HARNESS MUST BE MODIFIED FOR USE WITH BACKPLANE 19D902947G1 REV. B OR EARLIER.
92. ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT PL344A3450G9.
93. INSTALL EDACS INTERFACE PANEL 19D904003P1 PER 19D904003P101 AND INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19D904268. MOUNTING SCREWS AND SPRING NUTS ARE CALLED FOR ON HARDWARE KIT PL344A3450G9.
134. REMOVE WIRE FROM P19-5 ON 802401P1 AND INSTALL IN P19-5 ON 19C336863.

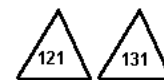
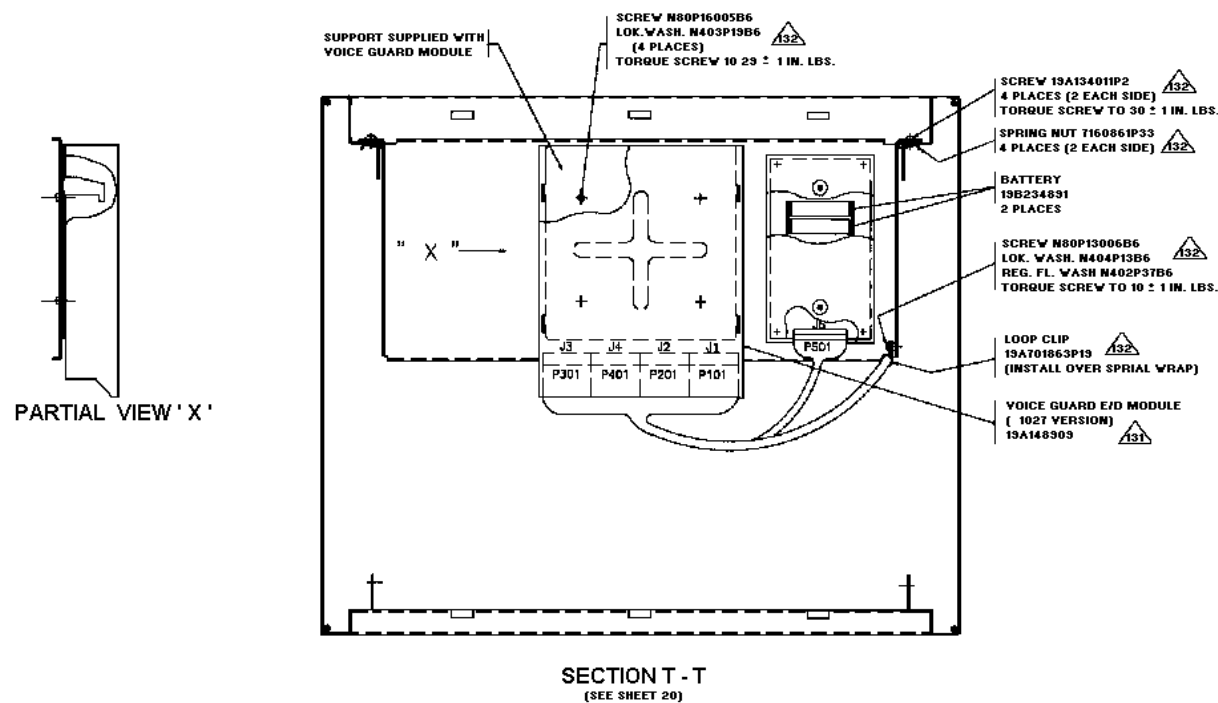
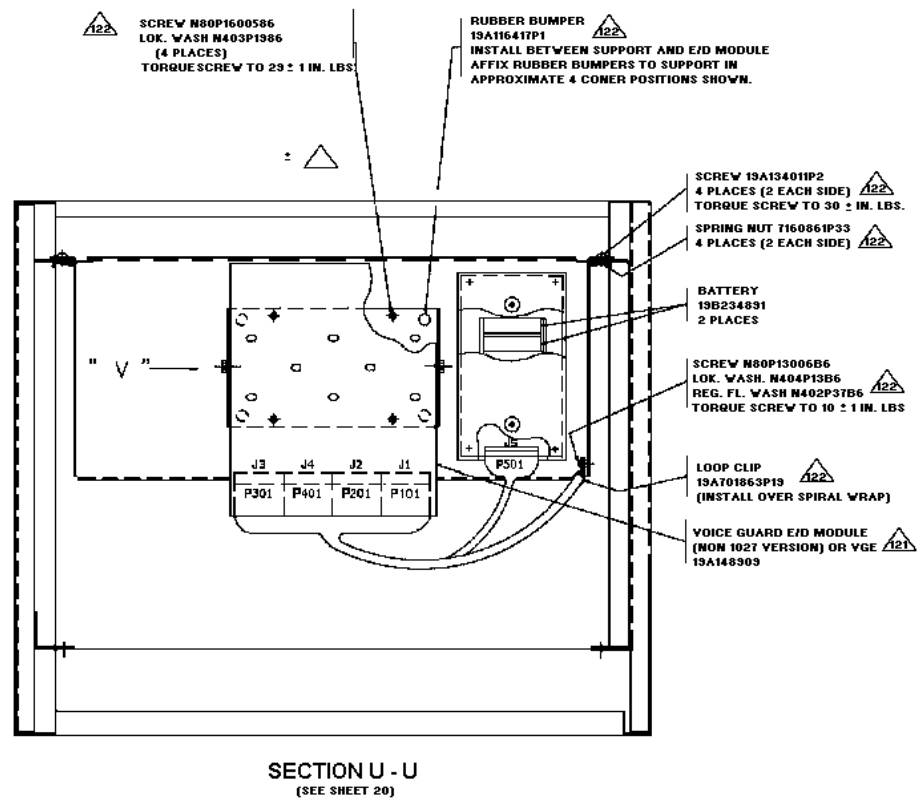
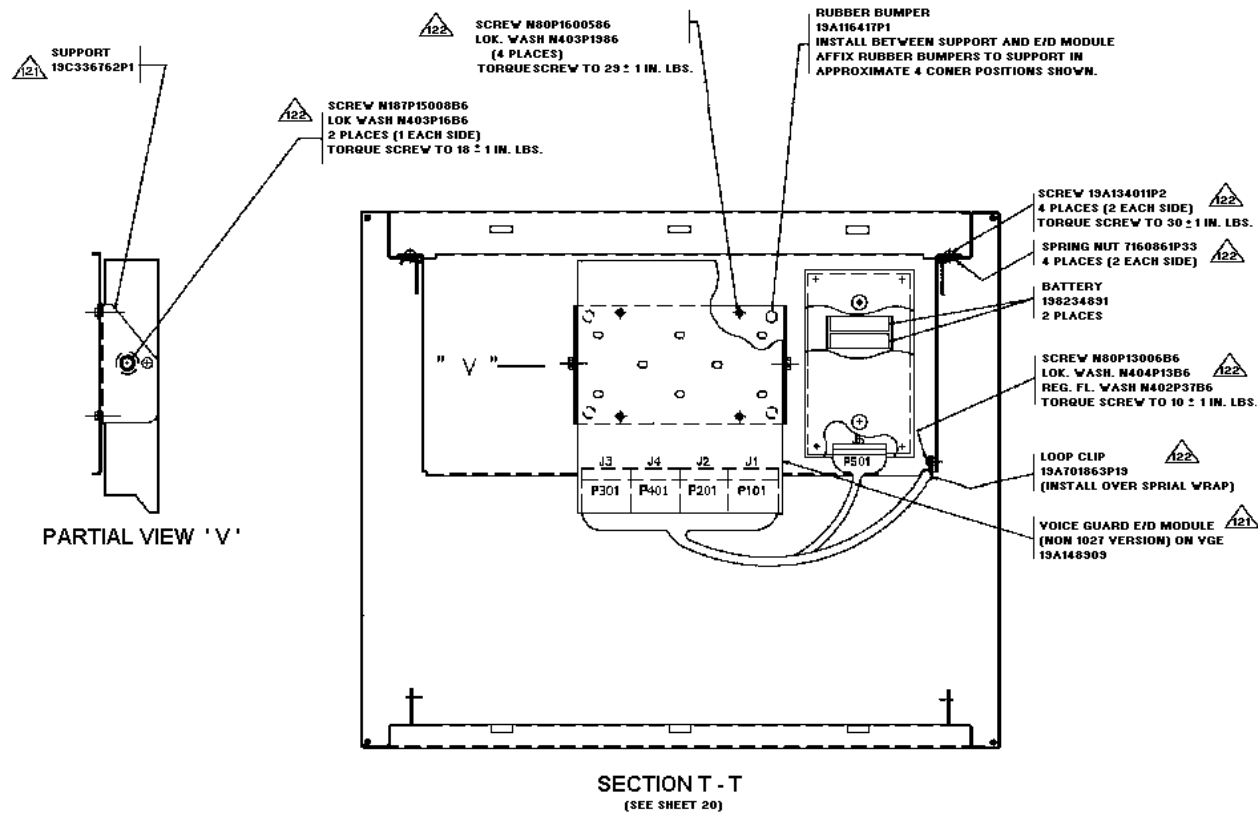
MASTR III STATION
19D902845P9

(19D902845, Sh. 19, Rev. 7)



MASTR III STATION
19D902845P11 - P13

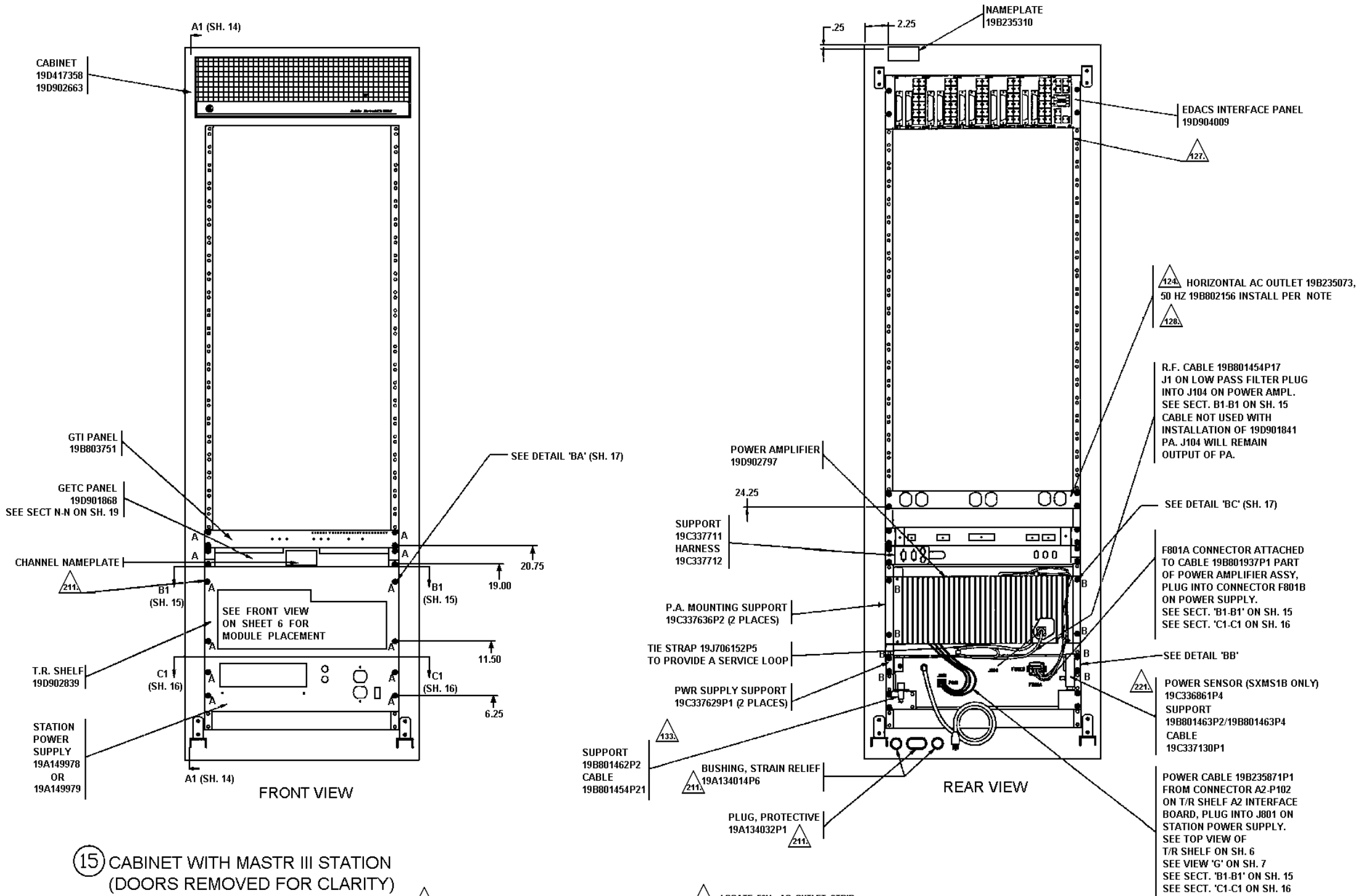
(19D902845, Sh. 20, Rev. 6)



Freq Band (MHz)	Inj. side	RX Data Polarity Inv.
136 - 150.8	High	No
150.8 - 174	Low	Yes
380 - 403	High	No
403 - 425	High	No
425 - 450	High	No
450 - 470	Low	Yes
470 - 494	Low	Yes
494 - 512	Low	Yes
800	Low	Yes

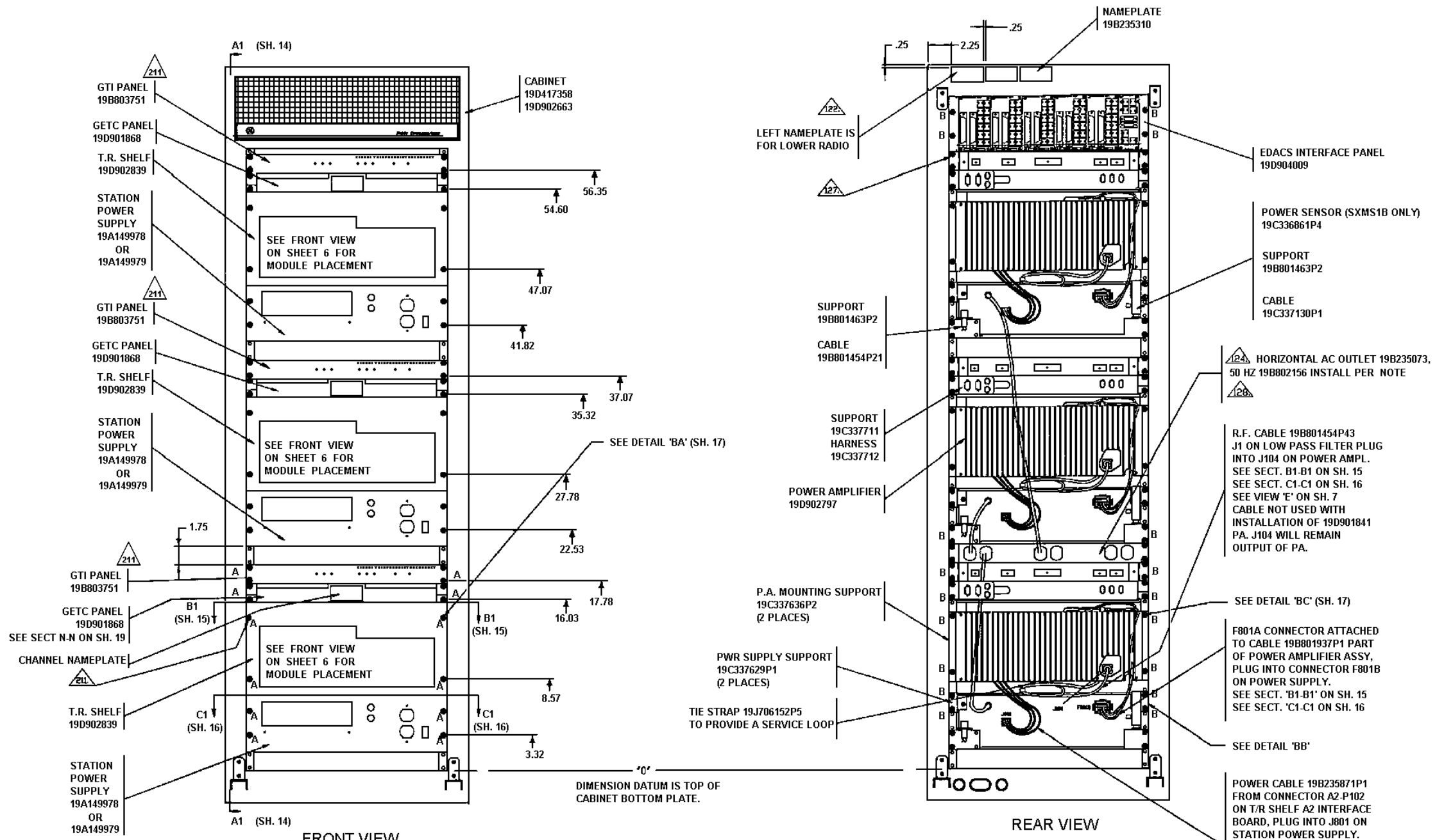
MASTR III STATION

(19D902845, Sh. 21, Rev. 3)



MASTR III STATION
19D902845P15

(19D902845, Sh. 22, Rev. 8)

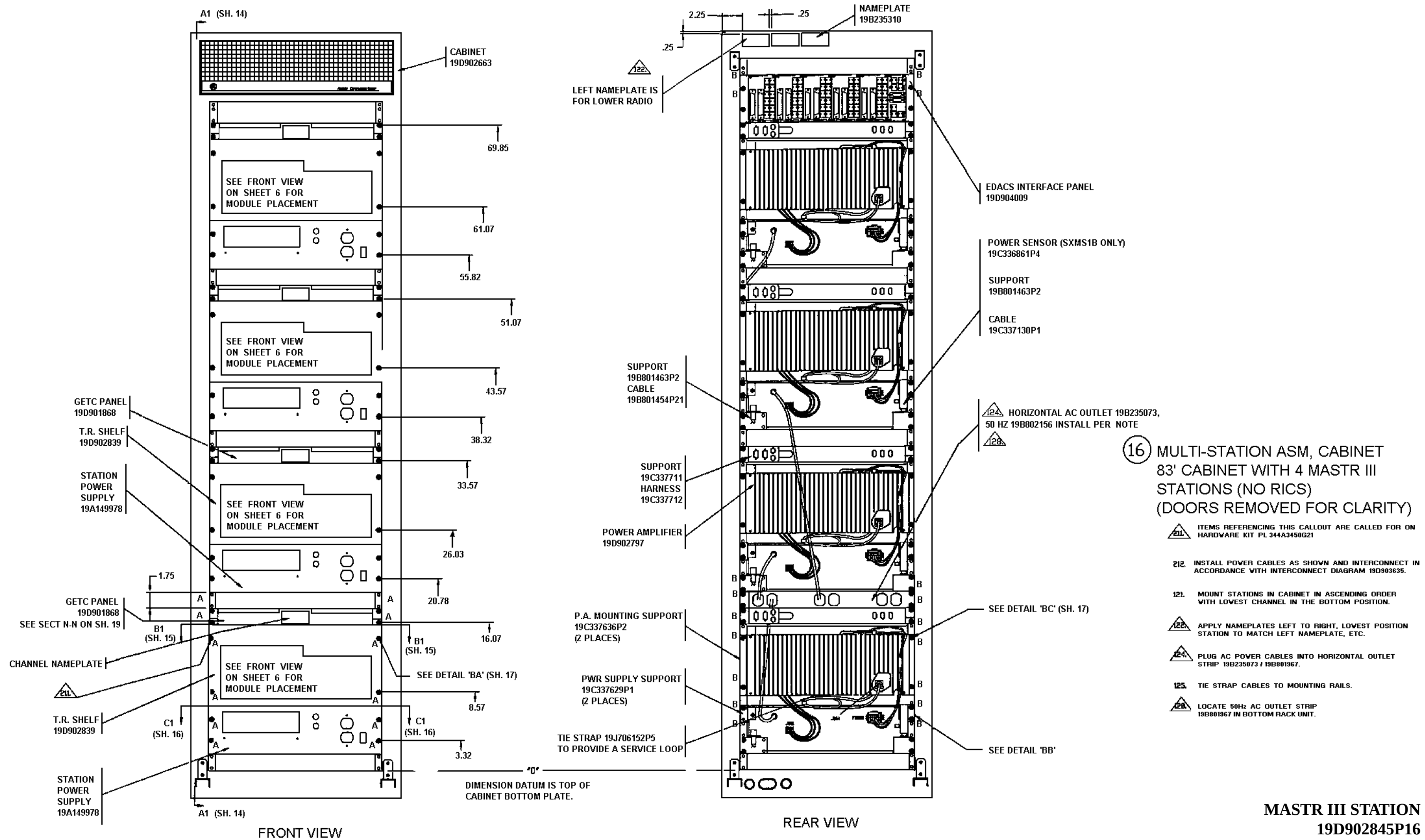


16 MULTI-STATION ASM, CABINET
(DOORS REMOVED FOR CLARITY)

- 211. ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT PL 344A3450G21.
- 212. INSTALL CABLES AS SHOWN AND INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19D903635.
- 121. MOUNT STATIONS IN CABINET IN ASCENDING ORDER WITH LOWEST CHANNEL IN THE BOTTOM POSITION.
- 122. APPLY NAMEPLATES LEFT TO RIGHT, LOWEST POSITION STATION TO MATCH LEFT NAMEPLATE, ETC.
- 123. MOUNT THIRD STATION WITH SIMILAR SPACING AS SECOND STATION.

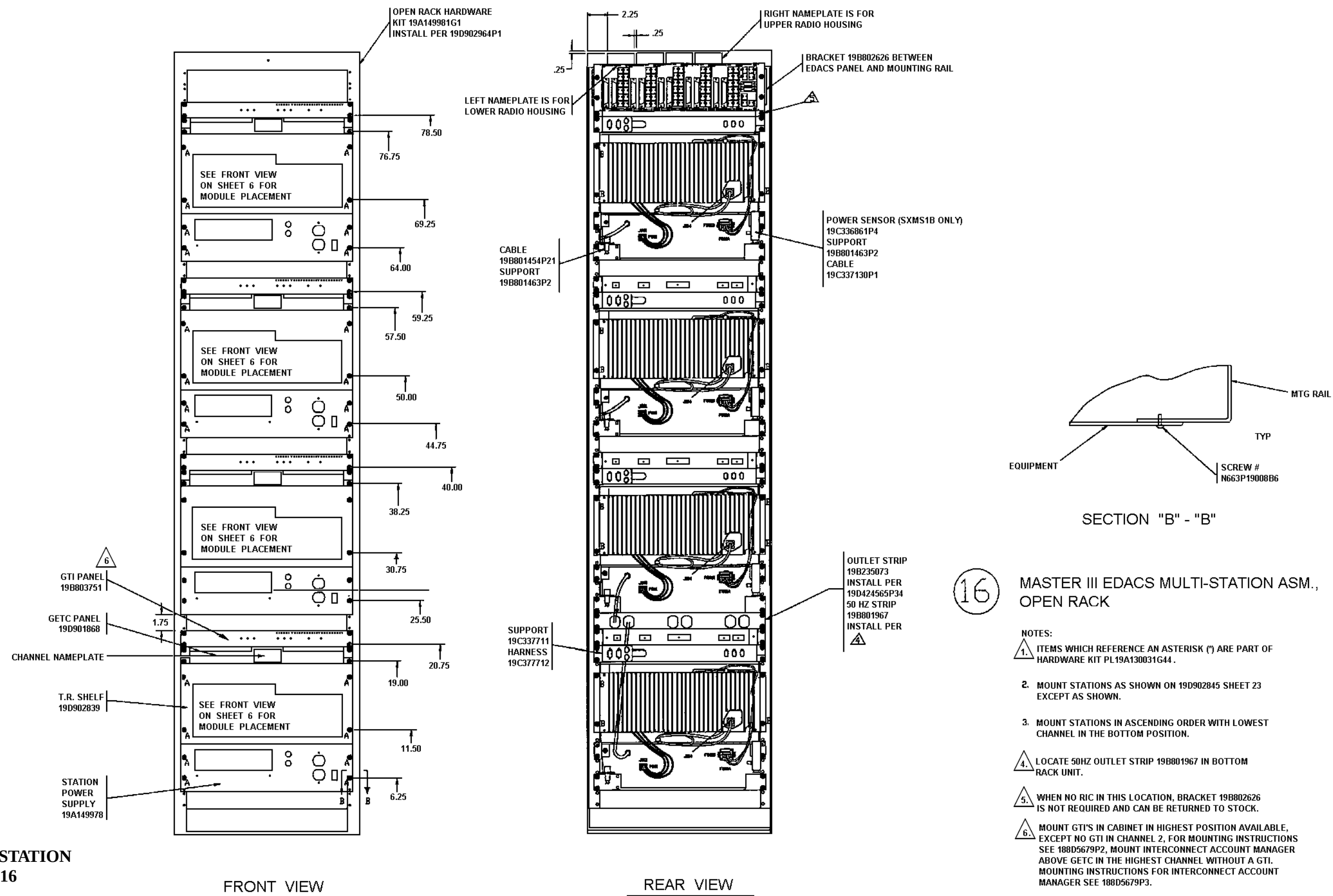
- 124. PLUG AC POWER CABLES INTO HORIZONTAL OUTLET STRIP 19B235073 / 19B801967.
- 125. TIE STRAP CABLES TO MOUNTING RAILS.
- 126. FOR 83" CABINET (19D9026630), MOUNT STATIONS AS SHOWN WITH EDACS INTERFACE PANEL IN TOP RACK UNITS AS SHOWN. FOR 83" CABINET WITH 4 STATIONS AND NO RICS, SEE SHEET 23A.
- 127. WHEN THERE IS NO RIC PANEL 19C337482 IN THIS POSITION, THE EDACS INT. PANEL CAN BE MOUNTED 1 RACK UNIT LOWER FOR EASIER CABLE ROUTING.
- 128. LOCATE 50Hz AC OUTLET STRIP 19B801967 IN BOTTOM RACK UNIT.
- 129. FOR 4 MASTR III STATIONS MOUNTED IN 83 INCH CABINET, SEE SHEET 23A FOR MOUNTING CONFIGURATION.
- 222. MOUNT GTI'S IN HIGHEST POSITION AVAILABLE, EXCEPT NO GTI IN CHANNEL 2, FOR MOUNTING INSTRUCTIONS SEE 188D5679P2, MOUNT INTERCONNECT ACCOUNT MANAGER (19B803753P1) ABOVE GETC IN THE HIGHEST CHANNEL WITHOUT A GTI FOR INTERCONNECT ACCOUNT MANAGER MOUNTING INSTRUCTIONS SEE 188D5679P3.

MASTR III STATION
19D902845P16
(19D902845, Sh. 23, Rev. 9)



MASTR III STATION
19D902845P16

(19D902845, Sh. 23A, Rev. 5)



MASTR III STATION
19D902845P16

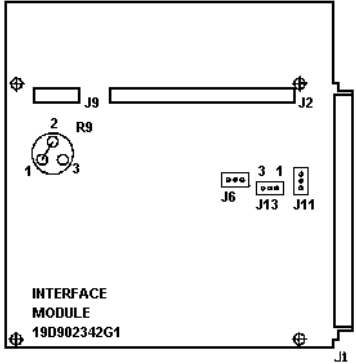
(19D902845, Sh. 24, Rev. 7)

DETAIL SIMULCAST GETC
FOR STATION RACK-UP SEE SHEET 28

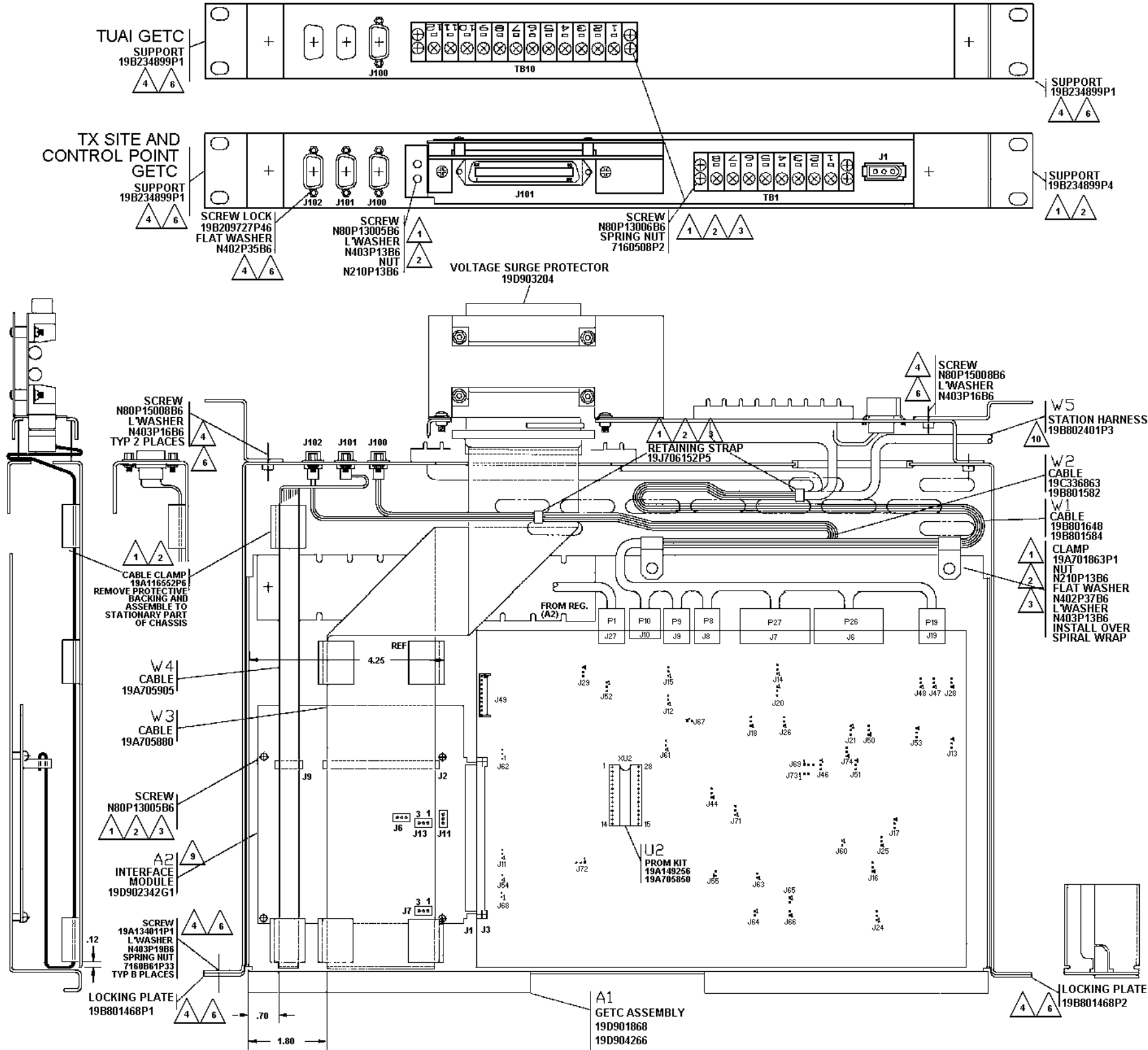
- NOTES:**
- 1 PART OF HARDWARE KIT PL19A149821G1
 - 2 PART OF HARDWARE KIT PL19A149821G2
 - 3 PART OF HARDWARE KIT PL19A149821G3
 - 4 PART OF HARDWARE KIT PL19A130031G30
 - 5 PART OF HARDWARE KIT PL19A130031G40
 - 6 PART OF HARDWARE KIT PL19A130031G41

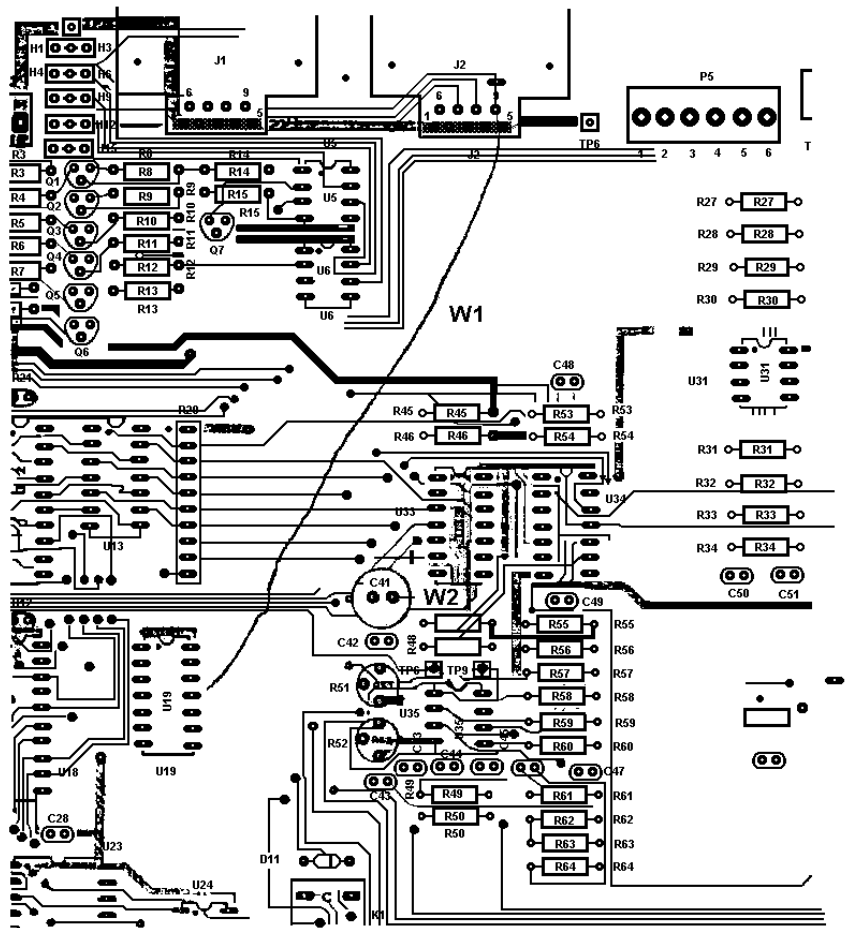
- 7. SEE DRAWING 349A9793P2 FOR JUMPER CONFIGURATION
- 8. THESE INSTRUCTIONS SUPERCEDE GETC ASSEMBLY INSTRUCTIONS SHOWN ON APPLICATION ASSEMBLY 19D417483.

- 9 REMOVE R9 FROM INTFC MODULE (19D902342G1). INSTALL WIRE FROM P1-P2 WHERE POT WAS REMOVED.



- 10 REMOVE THE CONTACTS FROM P19-3, P19-5 OF THE 19B802401 HARNESS, AND INSTALL IN P19-3 AND P19-5 OF THE 19C226863G1 HARNESS. REMOVE THE CONTACTS FROM P27-6, P27-8 AND J26-16 OF THE 19B802401 HARNESS. INSTALL THE CONTACTS FROM THE 19B801648 HARNESS INTO THE 19B802401 HARNESS PER THE 188D5025 INTERCONNECT DIAGRAM.
- 11 REMOVE C10 FROM INTFC MODULE (19D902342G1). INSTALL BYPASS WIRE IN PLACE OF C10.
- 12 REMOVE T1 FROM INTFC MODULE (19D902342G1). INSTALL TWO (2) BYPASS WIRES AS FOLLOWS: T1-1 TO T1-6 & T1-3 TO T1-4.





MODIFICATION INSTRUCTION

- 1) CUT PATTERN AT J2 PIN 9, U19 PIN 11, AND U33 PIN 6.
- 2) CONNECT W1 FROM J2 PIN 9 TO U19 PIN 11.
- 3) CONNECT W2 FROM U33 PIN 6 TO U33 PIN 7.
- 4) CUT THE LOCAL PTT LINE ON THE 19B802401P1 HARNESS AT P7 PIN 8 ON THE GETC.
- 5) MATERIAL SUPPLIED IN 349A9784G1 MOD KIT.

MASTR III STATION
19D902845P23

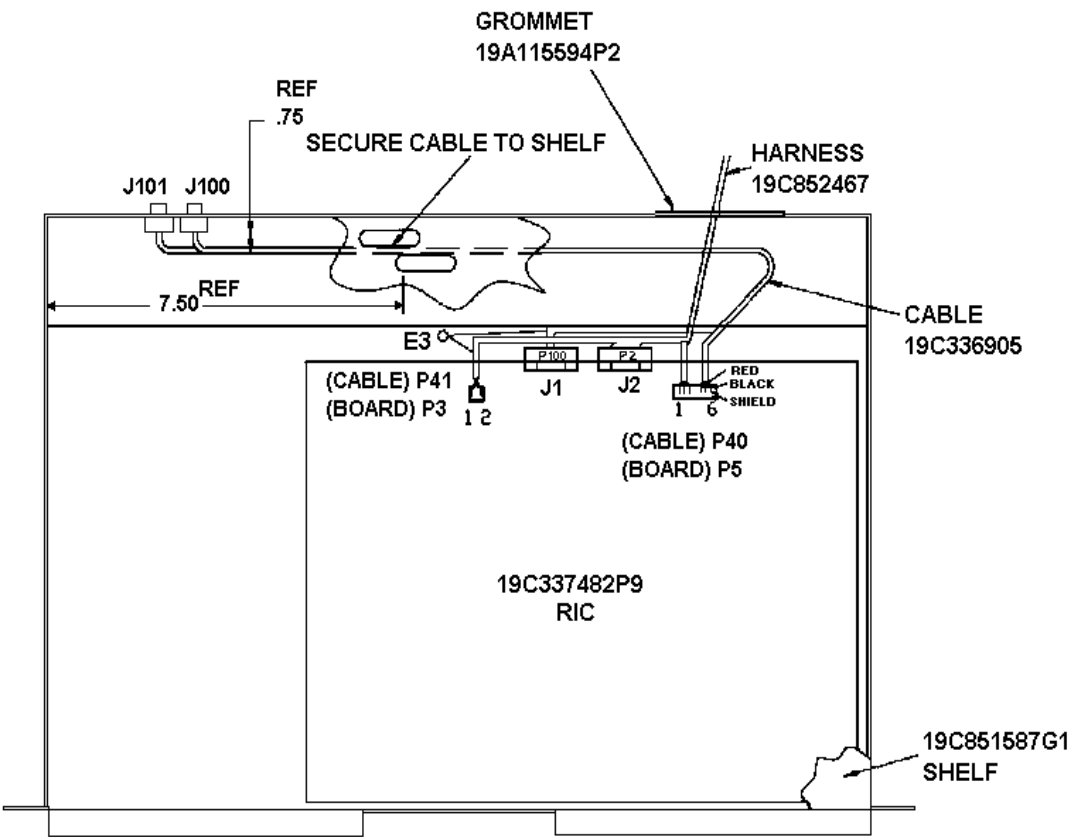
(19D902845, Sh. 26, Rev. 5)

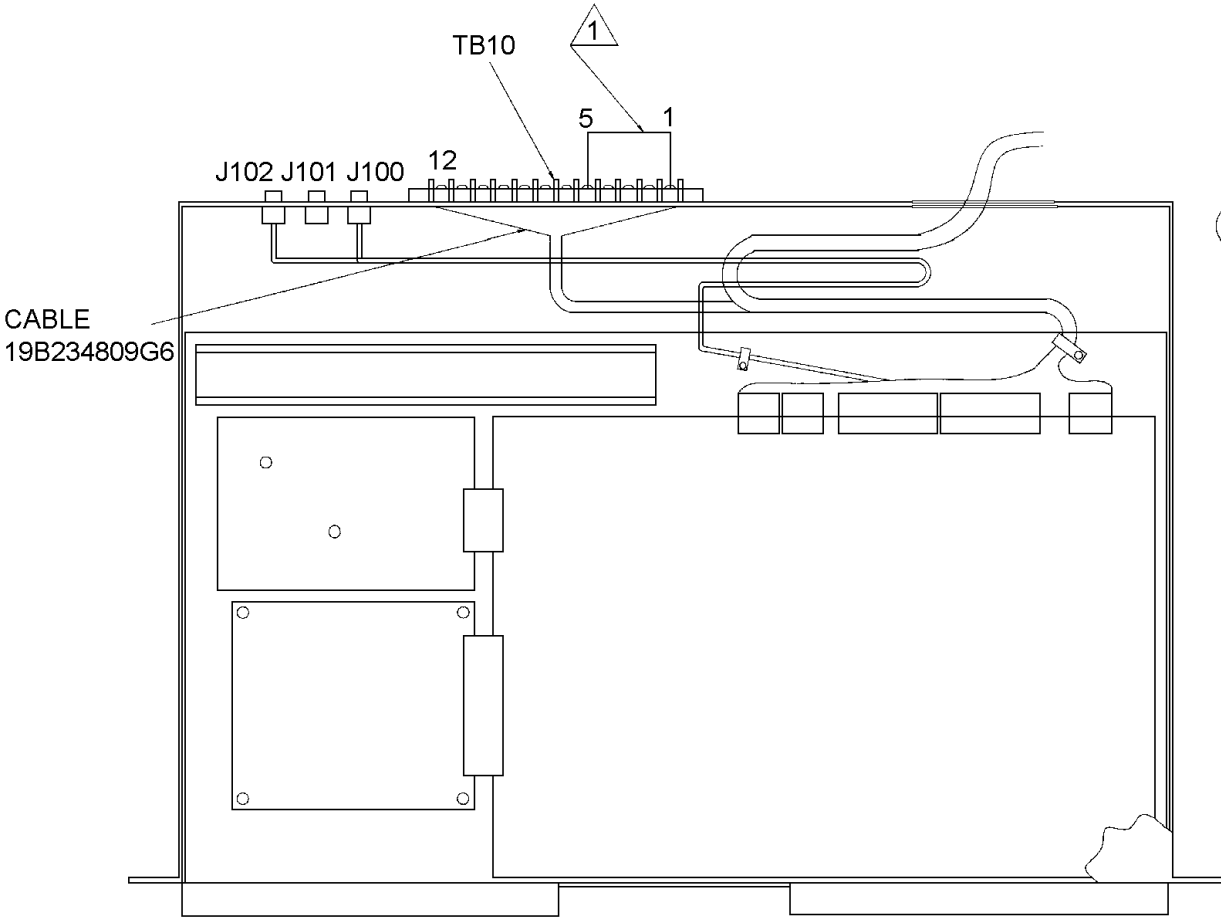
23

INSTALLATION INSTRUCTION

- 1) AFTER MODIFYING THE RIC, CONNECT P100 OF CABLE 19C336905 TO J1.
- 2) INSERT RED, BLACK, AND SHIELD FROM CABLE 19C336905 INTO THE SLOTS OF J5 OF THE MASTR II RIC CABLES AS FOLLOWS:

RED - PIN 4
BLACK - PIN 5
SHIELD - PIN 6
- 3) CONNECT P2 OF MASTR 111 RIC CABLE TO J2 ON THE RIC.
- 4) CONNECT J3 OF MASTR 111 RIC CABLE TO P3 ON THE RIC.
- 5) INSTALL GROUND LUGS FROM 19C852467 HARNESS AND 19C336905 CABLE ON E3 USING #6 HARDWARE.





24

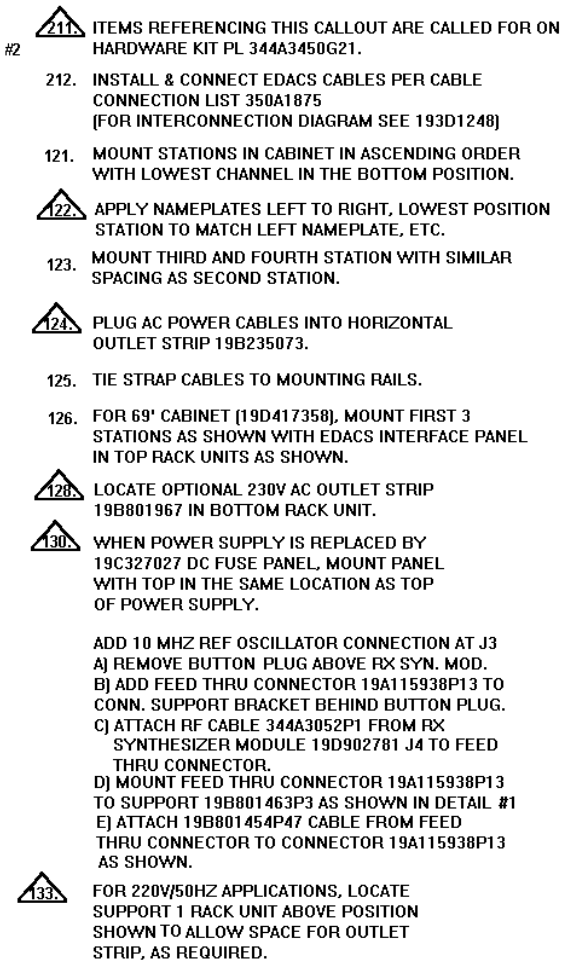
STATION RECEIVER VOTING FOR RS232

NOTES:

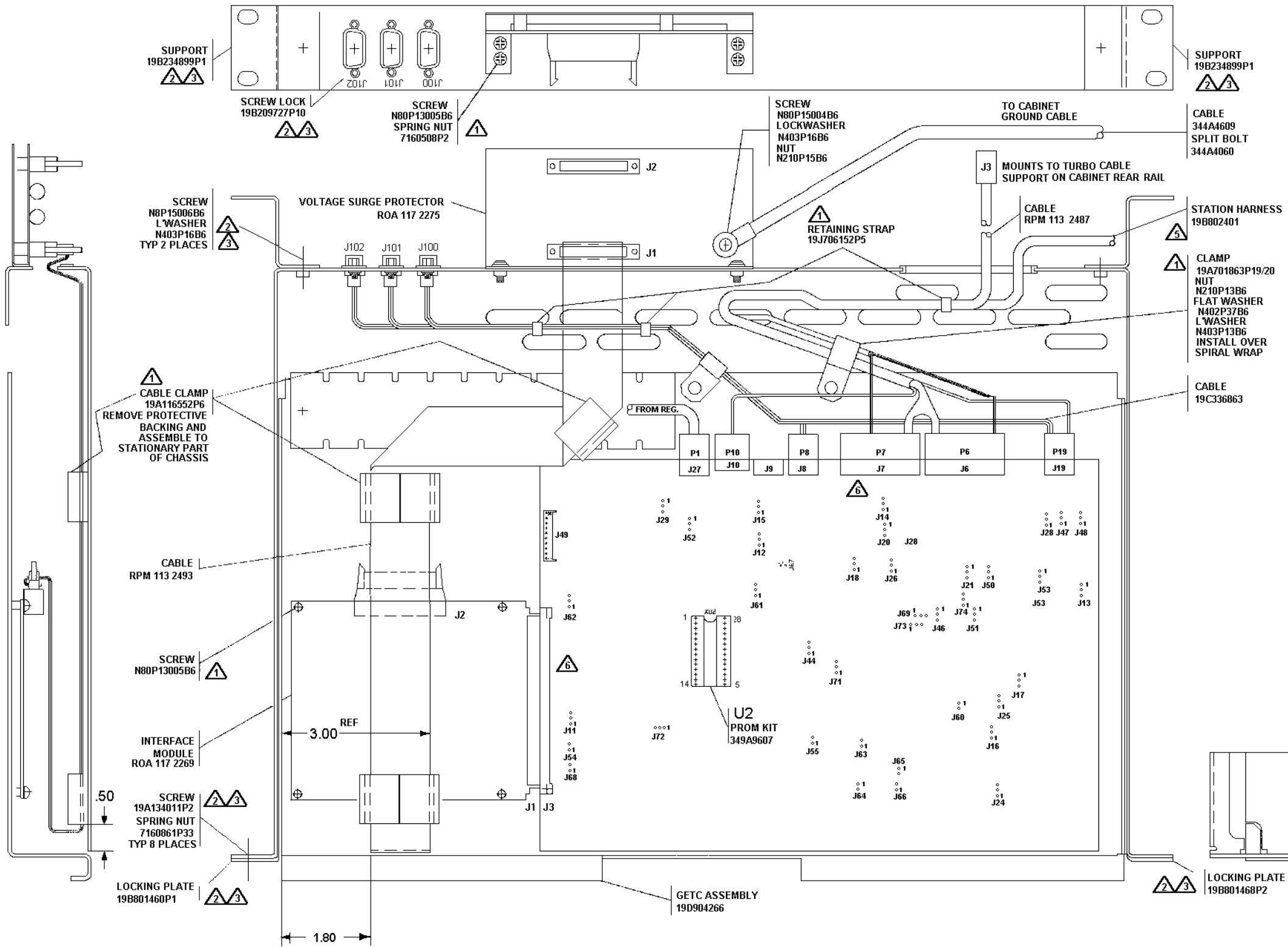
- 1. CONNECT JUMPER (19B234814G9) FROM TB10-1 TO TB10-5 ON REAR OF GETC.
- 2. SEE DRAWING 349A9793 FOR JUMPER CONFIGURATION.

MASTR III STATION
19D902845P24

(19D902845, Sh. 27, Rev. 3)



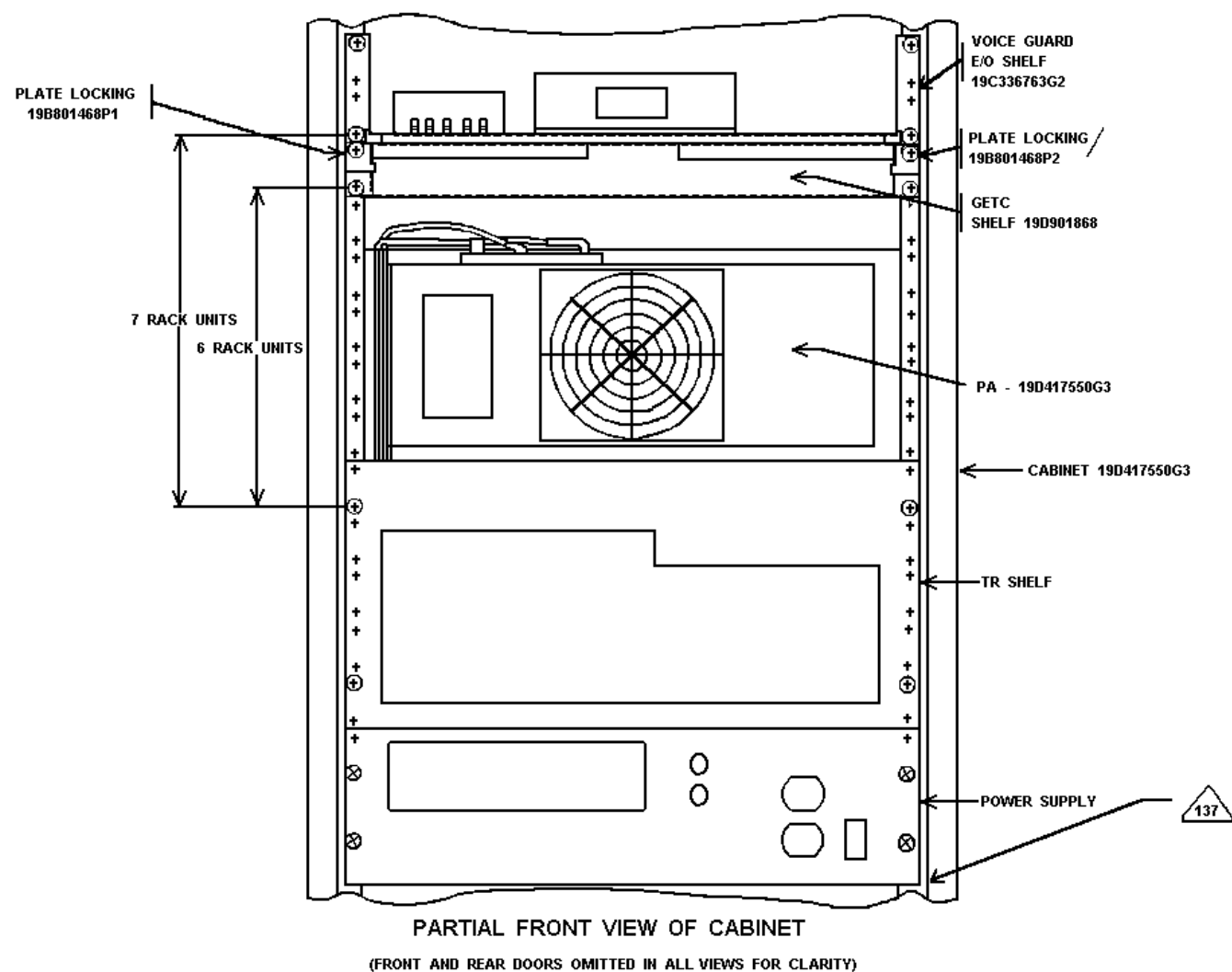
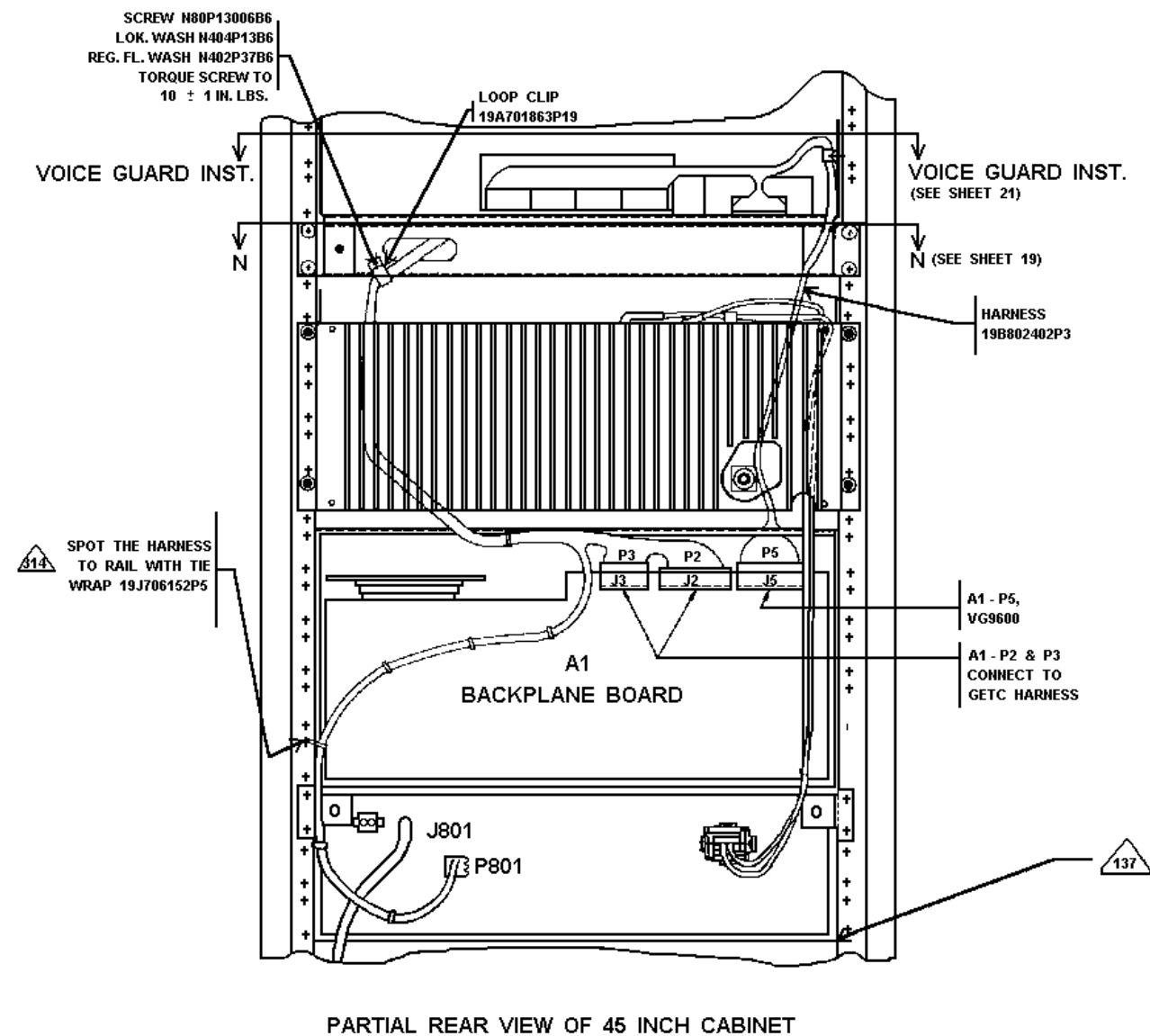
(19D902845, Sh. 28, Rev. 4A)



- NOTES:
- 1 PART OF HARDWARE KIT PL19A149821G4
 - 2 PART OF HARDWARE KIT PL19A130031G30
 - 3 PART OF HARDWARE KIT PL19A130031G41
 - 4 SEE DRAWING 349A9793P2 FOR JUMPER CONFIGURATION.
 - 5 REMOVE THE CONTACT FROM P19.5 OF THE 19B802401 HARNESS. AND INSTALL IN P19.5 OF THE 19C336863 HARNESS. REMOVE THE FOLLOWING WIRES FROM THE 19B802401 HARNESS
 - P6-6 TO J2-8
 - P6-7 TO J2-9
 - P6-8 TO J2-6
 - P6-9 TO J2-7
 - P6-16 TO J2-14
 - P7-6 TO J3-2
 - P7-8 TO J2-15
 - P7-9 TO J3-4
- CHANGE HARNESS PART NO. MARKING FROM 'P3' TO 'P2'
- CONNECT LOOSE END OF CABLE RPM 113 2487 AS FOLLOWS:
INSERT BROWN WIRE IN P7-3
INSERT BLACK WIRE IN P6-11
- 6 SOLDER A SF24 BROWN JUMPER WIRE FROM J3-C21 TO J7-8 ON THE GETC LOGIC BOARD

GPS Simulcast Station GETC
19D902845P22

(19D902845P22, Sh. 33, Rev. 1)



25 45 INCH WEATHER PROOF CABINET
APPLICATION ASSEMBLY DRAWING

NOTES:

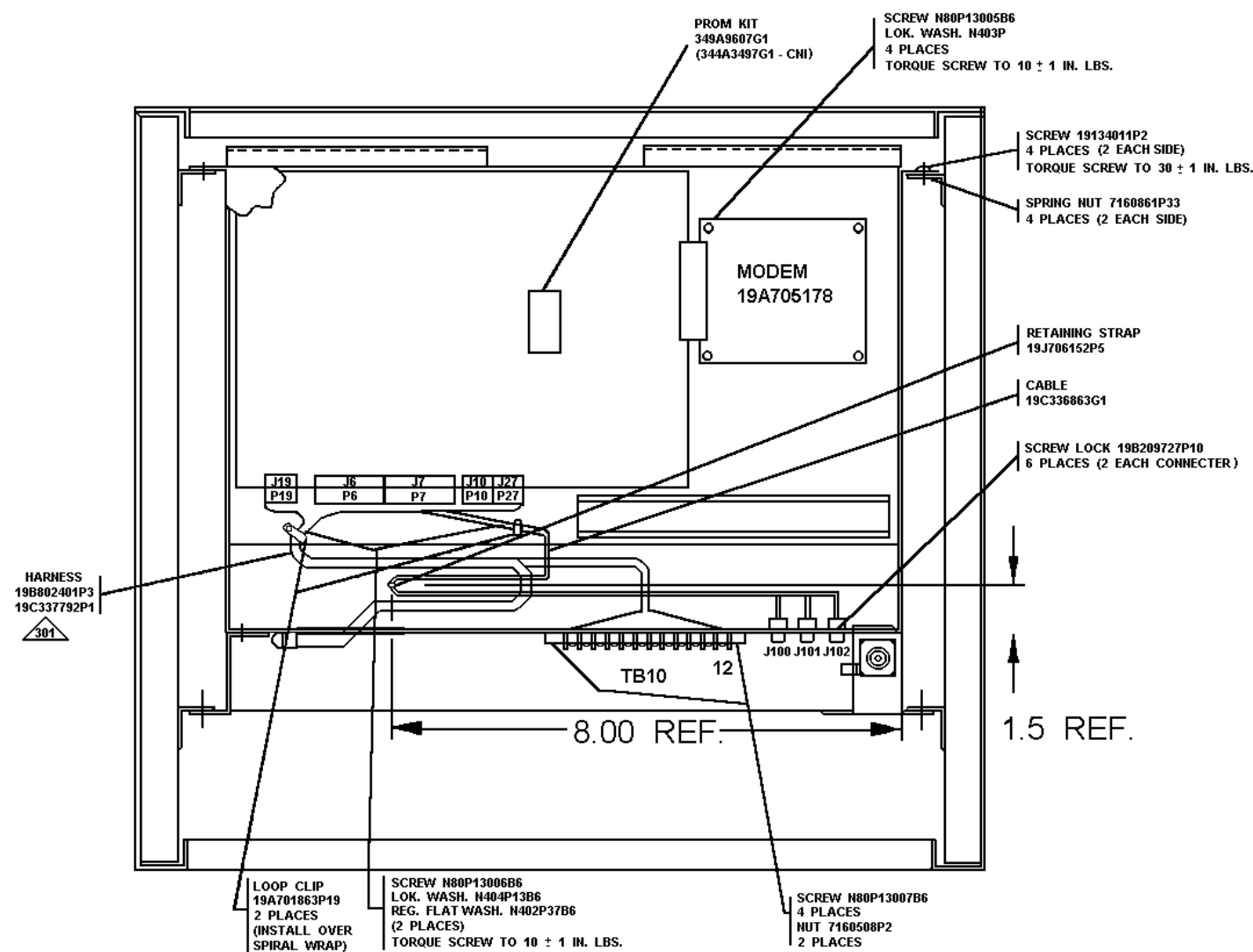
133. MOUNT PA AND TR SHELVES SIMILAR TO 19D902845P1 SHEET 1 EXCEPT AS POSITIONED ABOVE.
134. MOUNT DUPLEXER SHELF (344A3371 OR 344A4047) ABOVE VOICE GUARD SHELF OR IN VOICE GUARD LOCATION IF VG IS NOT PRESENT (SIMILAR TO 19D902845P4 SHEET 9).
135. MOUNT AUTOMOBILE BATTERY EMERGENCY POWER SIMILAR TO 19D902845P5 SHEET 10.
136. MOUNT GEL CELL BATTERY SHELF AND CHARGER SIMILAR TO 19D902845P6 SHEET 11.



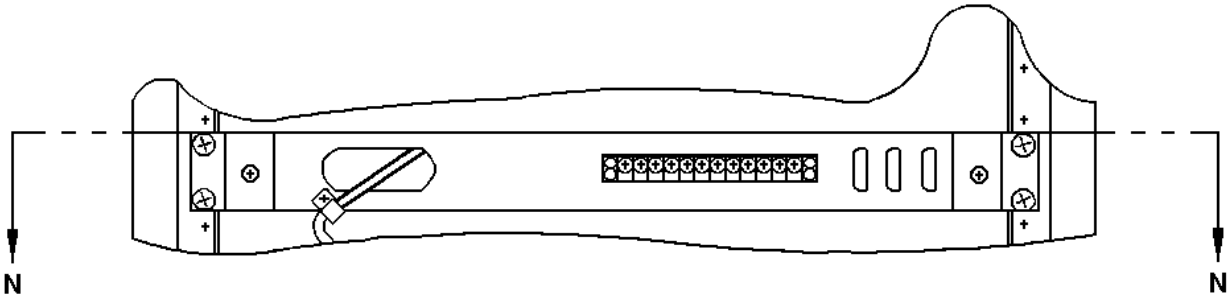
LOCATE BOTTOM OF POWER SUPPLY 6 RACK UNITS ABOVE THE BOTTOM OF THE CABINET. THIS DIMENSION MAY BE CHANGED DEPENDING ON OPTIONS BEING ADDED ABOVE AND BELOW THE TR/PA/POWER SUPPLY GROUP (6 RACK UNITS ARE THE MINIMUM NECESSARY FOR THE ADDITION OF GEL CELL BATTERIES AND CHARGER).

MASTR III STATION
19D902845P25

(19D902845, Sh. 29, Rev. 2)



SECTION N - N



PARTIAL REAR VIEW OF CABINET

P26 MODEM VOTING INSTALLATION

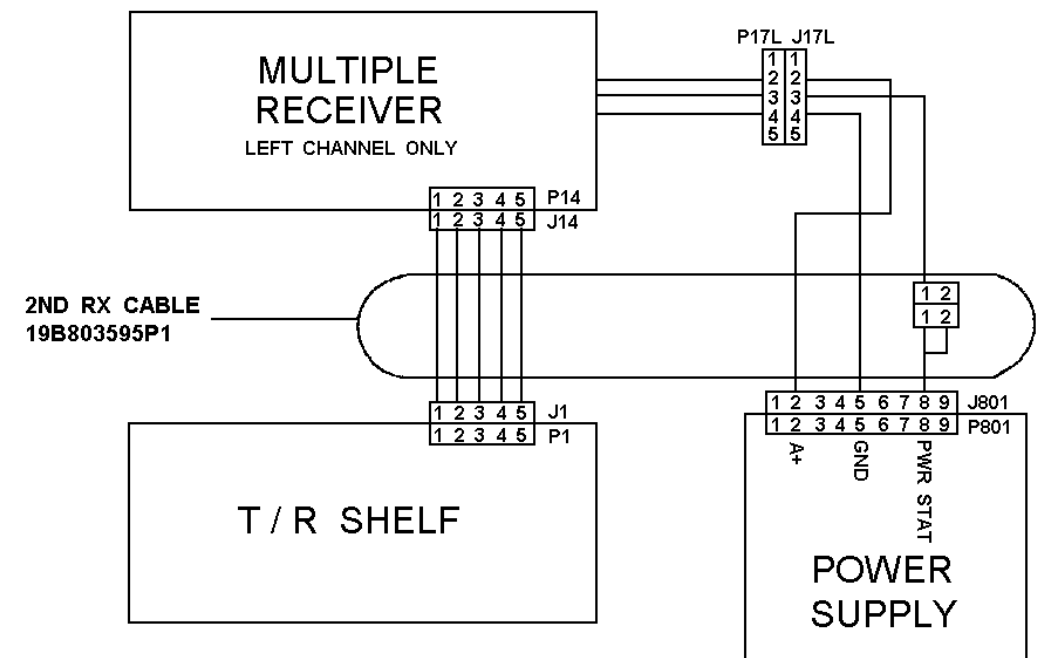
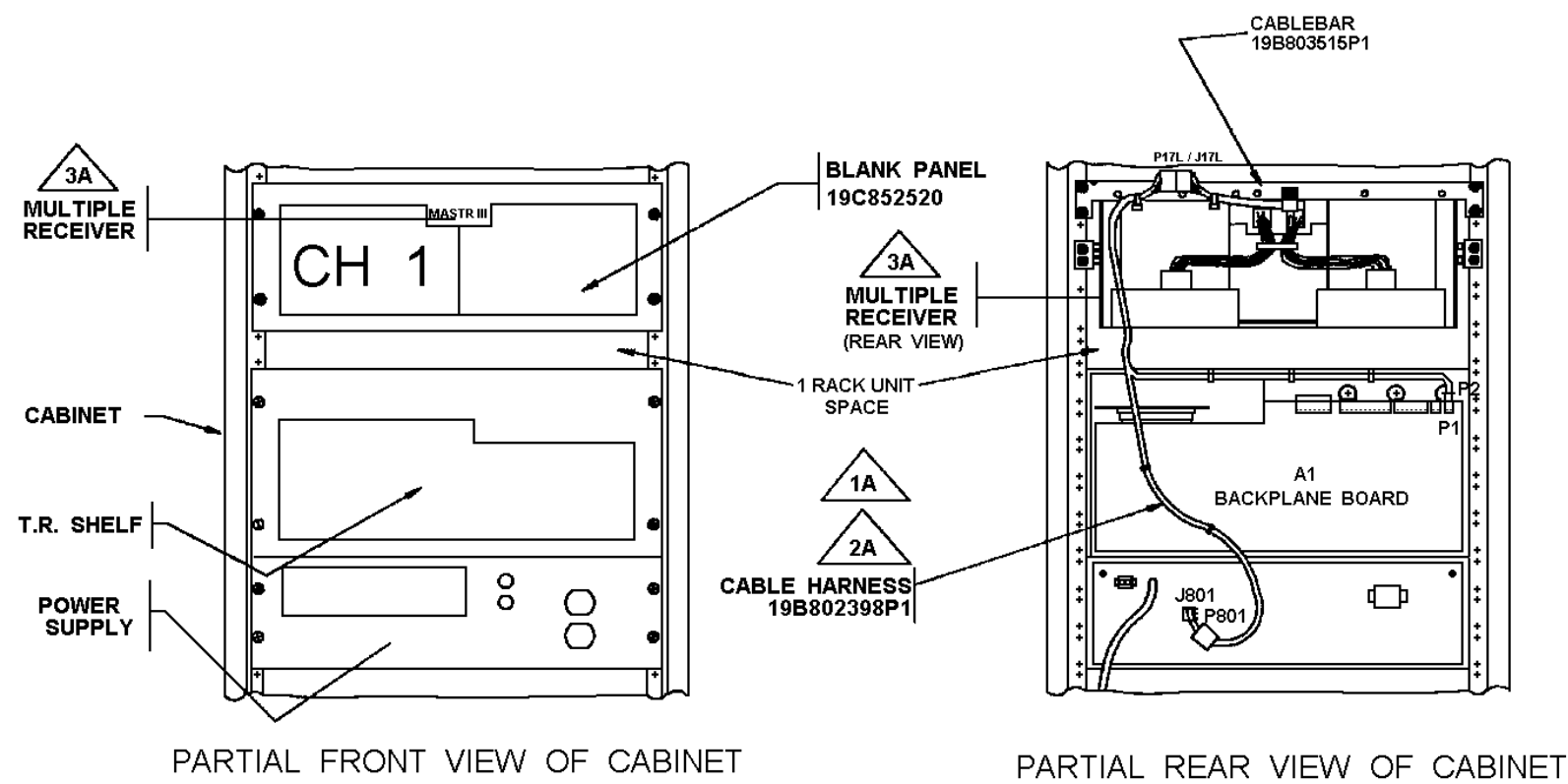
301 REMOVE CONTACTS FROM J26 - 6, 7, 8, 9 OF THE 19B802401 HARNESS. REMOVE CONTACTS FROM HEADER P26 ON 19C337792P1 HARNESS AND INSTALL IN 19B802401 HARNESS PER 19B803755 INTERCONNECT DIAGRAM.

P27 CNI INSTALLATION

301 REMOVE CONTACTS FROM J26 - 6, 7, 8, 9 OF THE 19B802401 HARNESS. REMOVE CONTACTS FROM HEADER P26 ON 19C337792P1 HARNESS AND INSTALL IN 19B802401 HARNESS PER 19B803755 INTERCONNECT DIAGRAM.

MASTR III STATION
19D902845P26 & P27

(19D902845, Sh. 30, Rev. 5)



INTERCONNECT DIAGRAM FOR MULTIPLE RECEIVER
IN 2ND RECEIVER FUNCTION

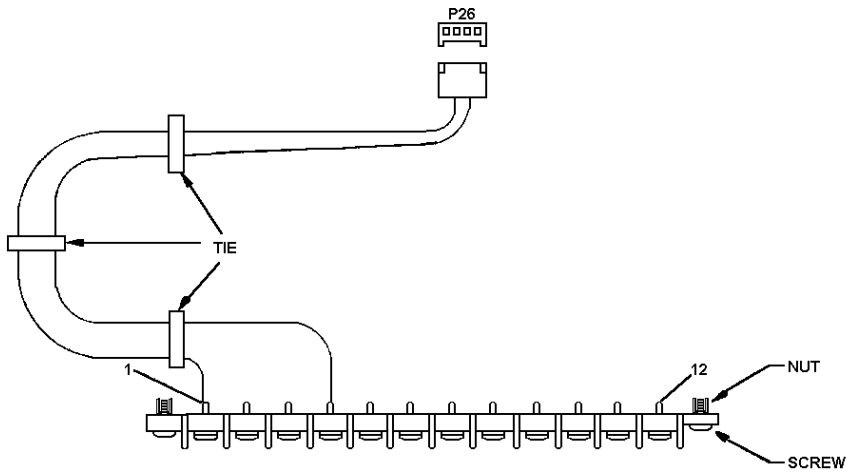
37 AND 69 INCH. HIGH INDOOR FIXED LAND CABINETS
MASTR III STATION WITH MASTR III MULTIPLE RECEIVER.

NOTES:

- INSTALL THE MULTIPLE RECEIVER SHELF AND CABLE HARNESS 19B802398P1 AS SHOWN. INTERCONNECT IN ACCORDANCE WITH INTERCONNECT DIAGRAM 19B802439.
- ITEMS REFERENCING THIS CALLOUT ARE CALLED FOR ON HARDWARE KIT PL344A3450G8.
- FOR RECEIVER MOUNTING INFORMATION, SEE 188D5450 SHEET 2. FIG. 1.

MASTR III STATION WITH
MASTR III MULTIPLE RECEIVER
19D902845P8

(19D902845, Sh. 18A, Rev. 2)



NOTE:
CABLE LENGTH FROM TB10 TO P26 IS 20 INCHES.

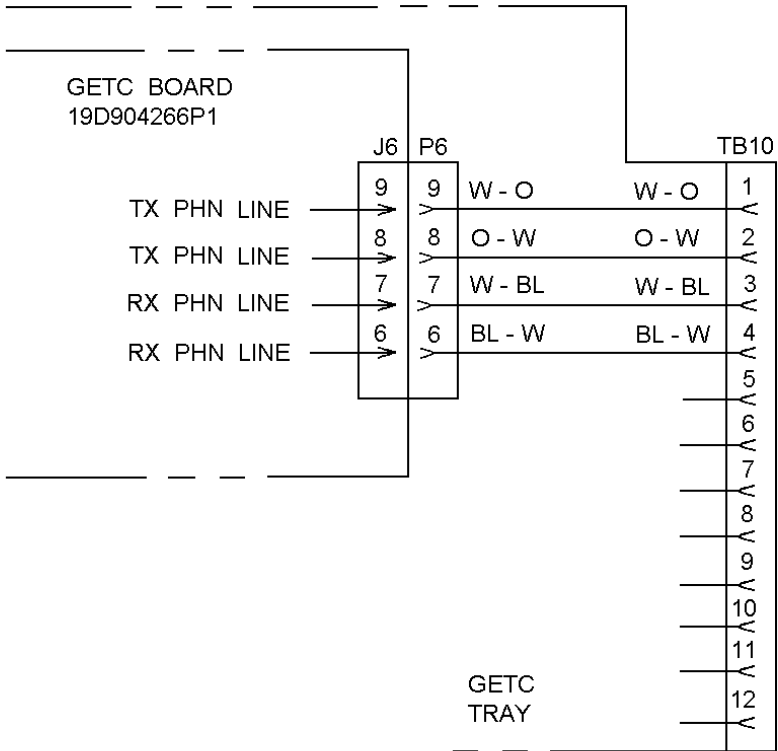
P26		TB10
1	W - O	1
2	O - W	2
3	W - BL	3
4	BL - W	4

J6
HOUSING EGE PART NO. 19A700041P30 SIMILAR TO MOLEX CAT. NO. 22-01-2045 CONTACT: (4) #24 EGE PART NO. 19A704779P26, SIMILAR TO MOLEX CAT. NO. 08-55-0101 OR EQUIVALENTS

1

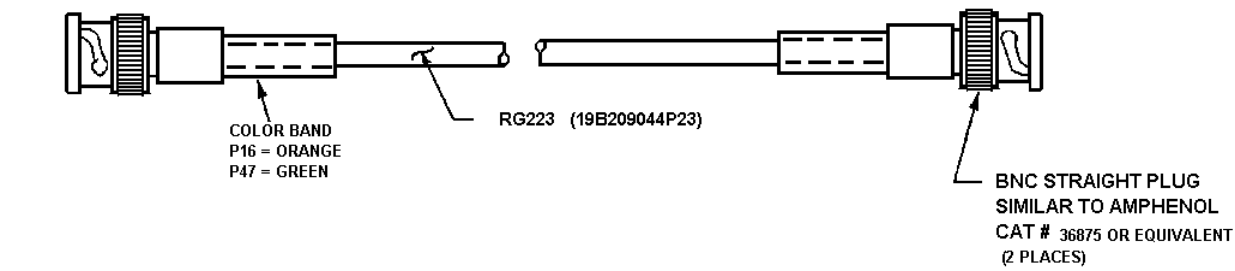
MATERIAL LIST:

MODEM VOTING HARNESS		
19C301086P8	TB	1
N80P13007B6	SCR, MACH	4
7160508P2	NUT, SH	2
C&M CAT# 19523	WIRE, STRD	4
19A704779P26	CNT, CRMP	4
19A700041P30	HEADER	1



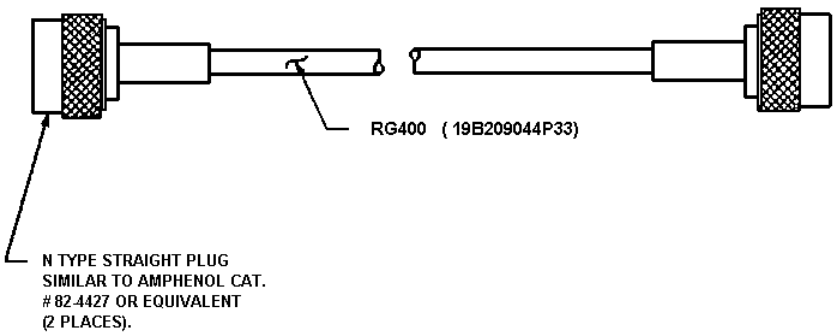
HARNESS
19C337792P1

(19C337792, Sh. 1, Rev.2), (19B803755, Sh.1, Rev. 3)



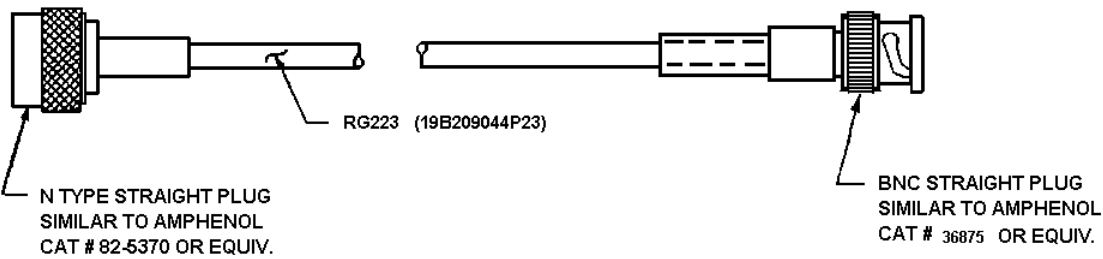
19B801454P16 & P47

(19B801454, Sh. 10, Rev. 25)



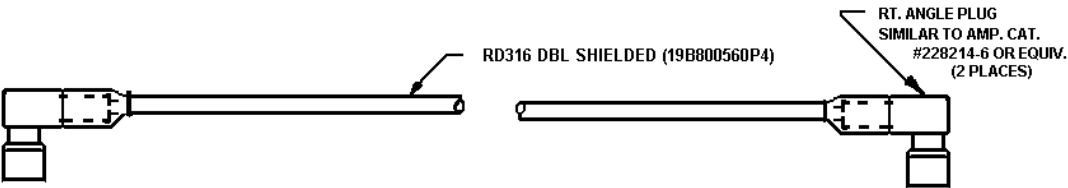
19B801454P17 & P18

(19B801454, Sh. 11, Rev. 13)



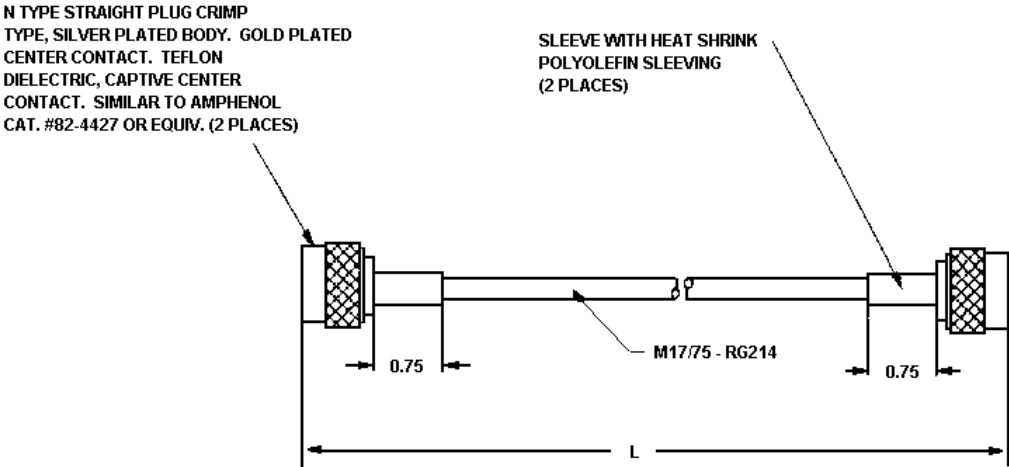
19B801454P19 & P20

(19B801454, Sh. 12, Rev. 9)



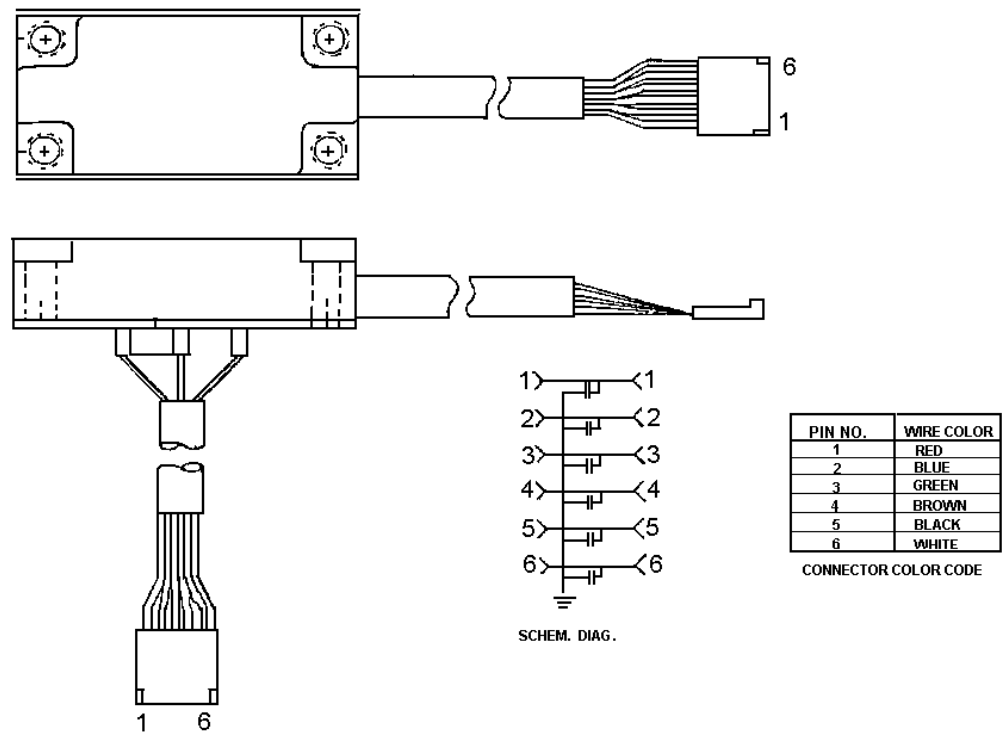
19B801454P24

(19D801454, Sh. 15, Rev. 25)



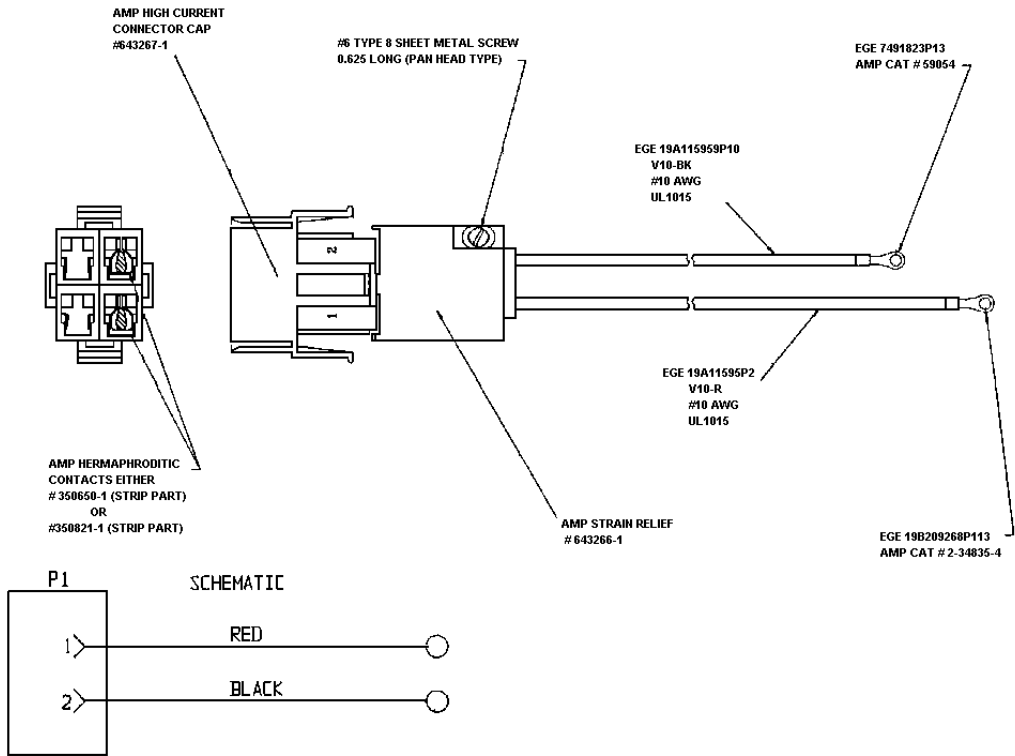
19B801454P43

(19B801454, Sh. 23, Rev. 20)



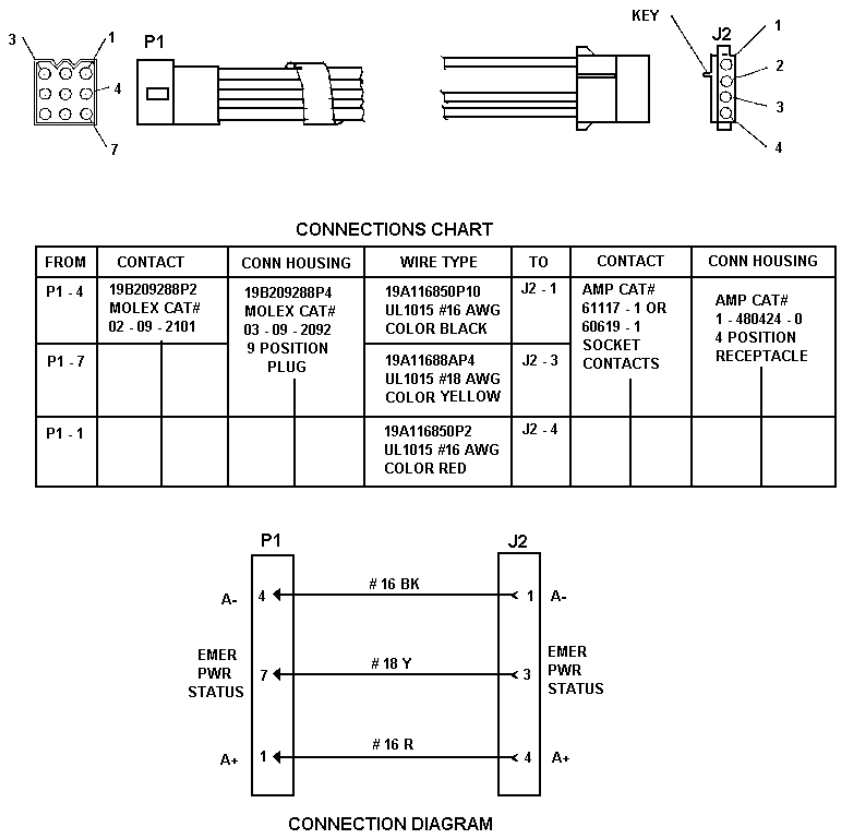
CONTROL CABLE ASSEMBLY (part of Power Amplifier) - 19B801739P1

(19B801739, Sh. 1, Rev. 2)



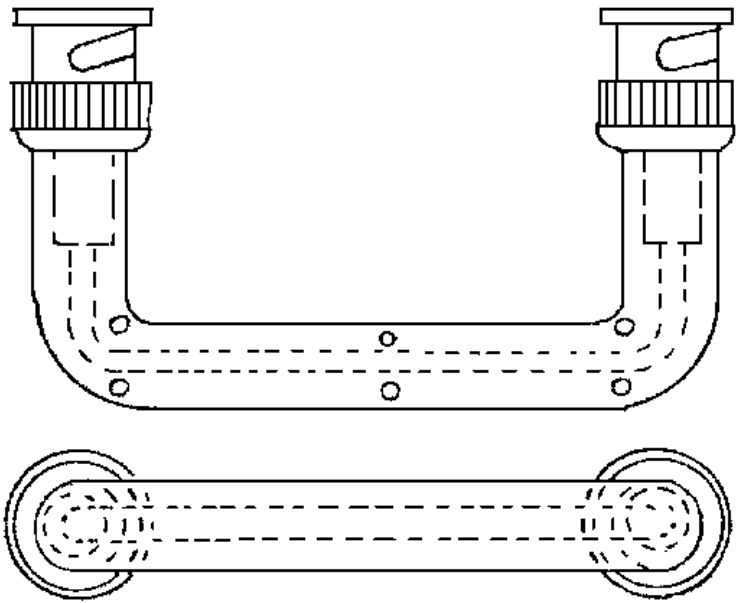
POWER CABLE (part of Power Amplifier) - 19B801937P1

(19B80937, Sh. 1, Rev. 1)



19B235871P1

(19B235871, Sh. 1, Rev. 2)



344A3052P1

(344A3052, Sh. 1, Rev. 1)