

MAINTENANCE MANUAL

GPS SIMULCAST SYSTEM DRAWINGS
(Transmit Site)

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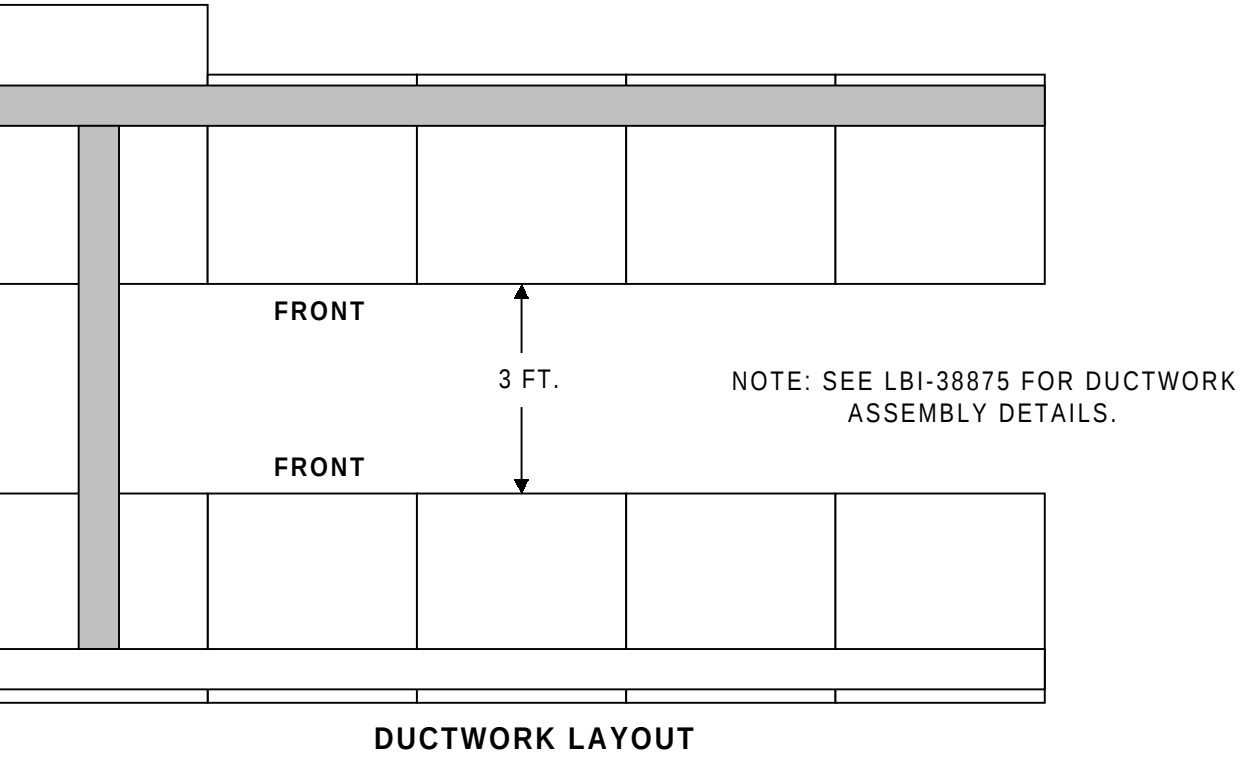
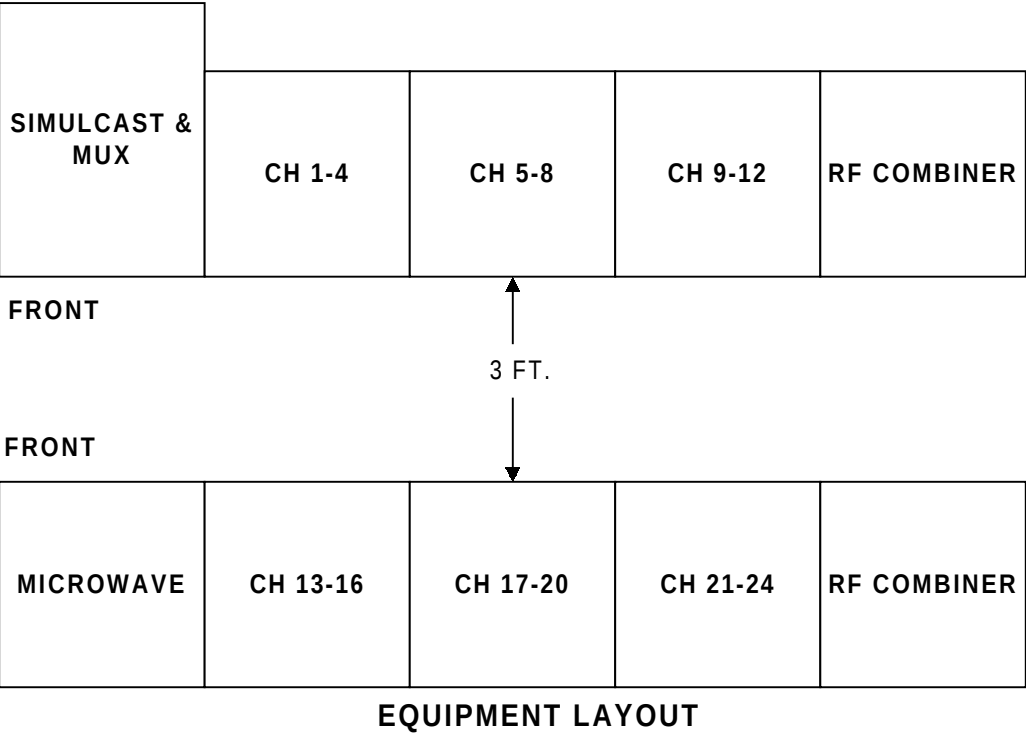
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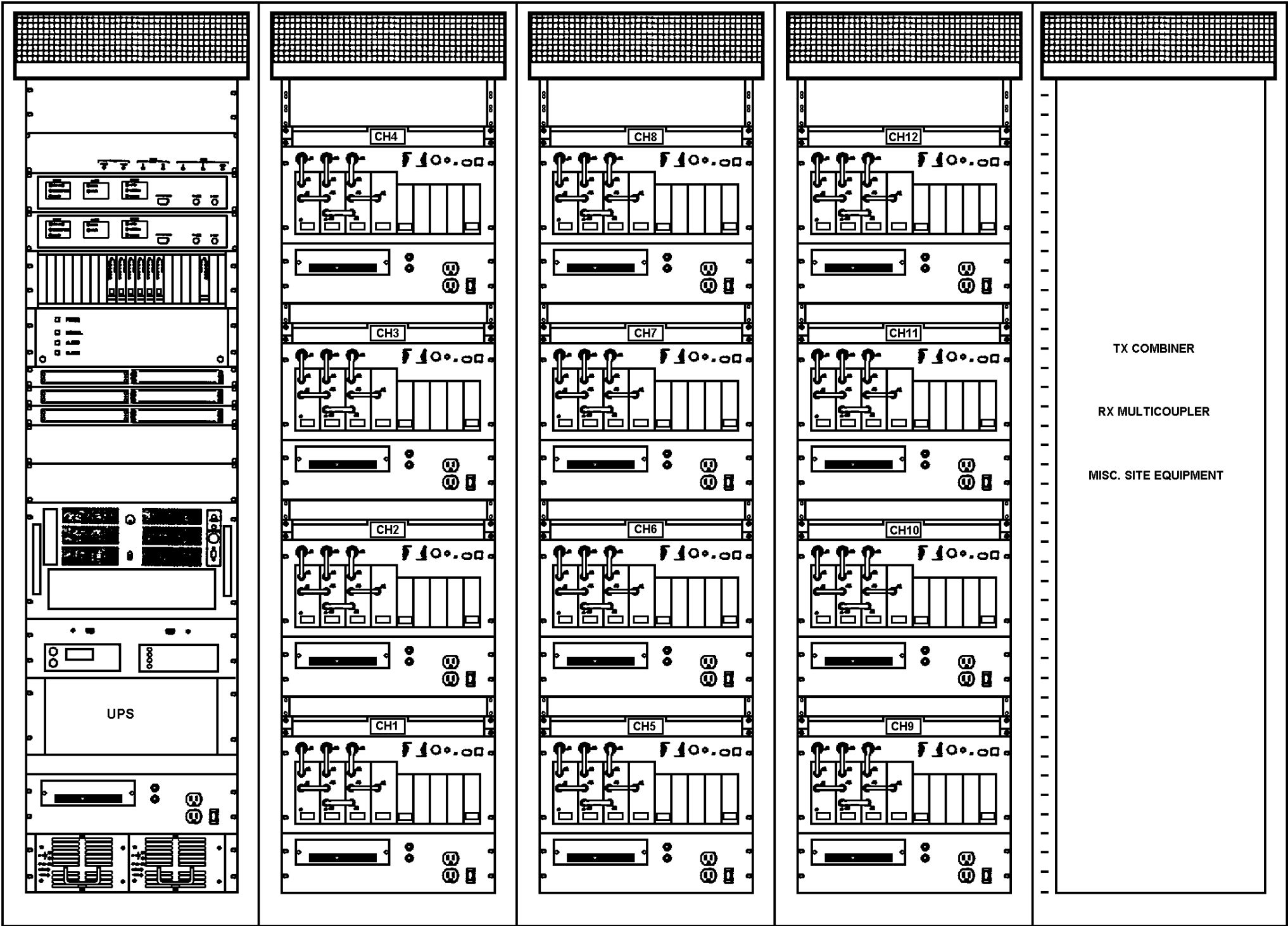
This maintenance manual provides GPS Simulcast System drawings used at the transmit site. These drawing include Transmit Site Configuration, Floor Plan, Interrack Cabling and an Interrack Cabling List. Transmit Site Configuration Drawing 19C852716, Sheets 1 & 2 show the configuration for a 24 channel GPS Simulcast transmit site. Floor Plan Drawing 19C852721 shows the equipment layout for and the ductwork layout for the same configuration. Interrack Cabling Drawing 19C852722, sheets 1 & 2 shows the interrack cabling for a 24 channel transmit site. Cable list 350A1888, Sheets 1-3 provides a list of the GPS Simulcast Transmit Site Interrack cabling. This list also provides a wiring diagram (Figure 1) for the alarm cables connected from T801 (ALM OUT) to T813 “A” (ALM IN), and from D801 (ALM OUT) to T803-A (ALM IN) and from D801 (ALM OUT) to T813_A (ALM IN). T801 is GPS receiver “A” and T803 is 10 MHz Oscillator Selector & Distribution Amplifier #1. These two items are located in the Simulcast equipment rack. T813 is 10 MHz Oscillator Selector & Distribution Amplifier #2 located in a station equipment rack. D801 is GPS receiver “A” located in the common equipment rack at the Control Point. This cable is used only when the Control Point and the Transmit Site are co-located.

NOTICE!

Repairs to this equipment should be made only by an authorized service technician or facility designated by the supplier. Any repairs, alterations or substitution of recommended parts made by the user to this equipment not approved by the manufacturer could void the user’s authority to operate the equipment in addition to the manufacturer’s warranty.

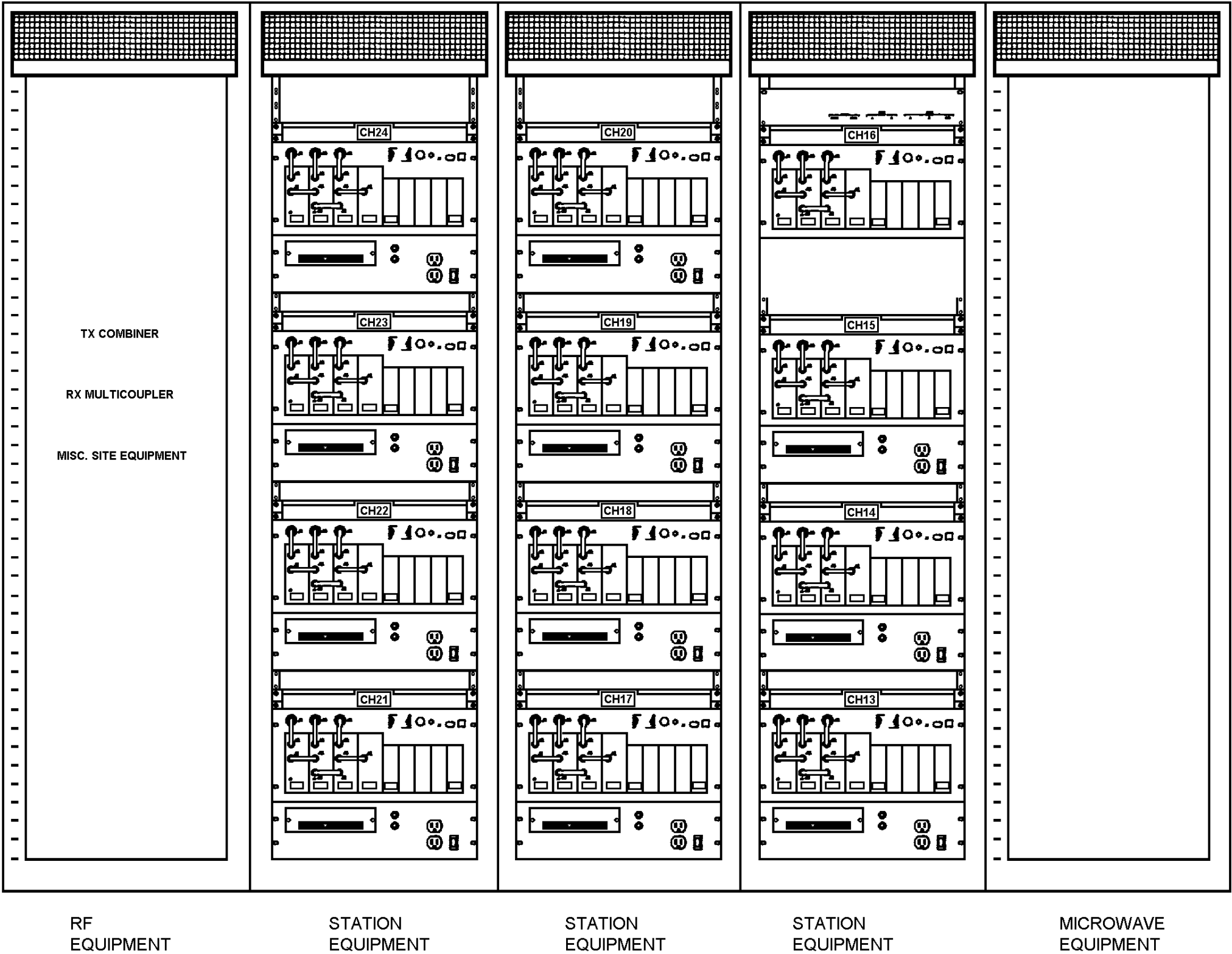
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24 Channel
Transmit Site Configuration Diagram

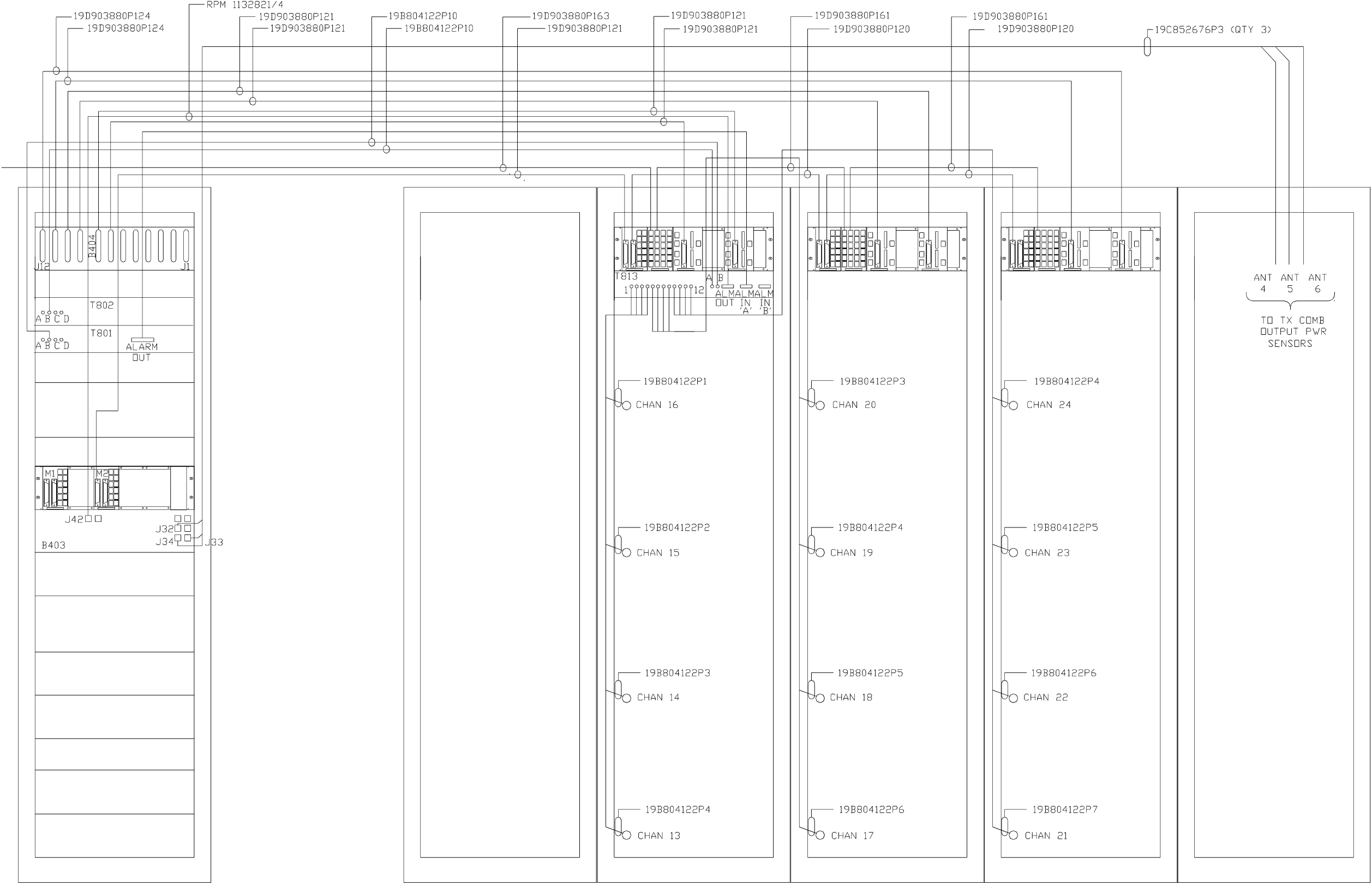
(19C852716, Sh. 1, Rev. 1)



24 Channel
Transmit Site Configuration Diagram

(19C852716, Sh. 2, Rev. 1)





Interrack Cabling Diagram

(19C852722, Sh. 2, Rev. 0)

PART 1

83 CABINETS

FROM 2 CHANNEL MAPPING MODULE	TO STATON CROSSCONNECTPANEL	CABLE
MM1-J9 (CH 1 & 2)	B404-J1	19D903880P120
MM2-J9 (CH 3 & 4)	B404-J2	19D903880P120
MM1-J9 (CH 5 & 6)	B404-J3	19D903880P122
MM2-J9 CH 7 & 8)	B404-J4	19D903880P122
MM1-J9 (CH 9 & 10)	B404-J5	19D903880P123
MM2-J9 (CH 11 & 12)	B404-J6	19D903880P123
MM1-J9 (CH 13 & 14)	B404-J7	19D903880P121
MM2-J9 (CH 15 & 16	B404-J8	19D903880P121
MM1-J9 (CH 17 & 18)	B404-J9	19D903880P121
MM2-J9 (CH 19 & 20)	B404-J10	19D903880P121
MM1-J9 (CH 21 & 22)	B404-J11	19D903880P124
MM2-J9 (CH 23 & 24)	B404-J12	19D903880P124

FROM BSL/FSL MODULE	TO BSL/FS MODULE	CABLE
BSL/FSL-J2 (CH 1-4)	CCM-J9	19D903880P162
BSL/FSL-J2 (CH 5-8)	BSL/FSL-J1 (CH 1-4)	19D903880P161
BSL/FSL-J2 (CH 9-12)	BSL/FSL-J1 (CH 5-8)	19D903880P161
BSL/FSL-J1 (CH 13-16)	BSL/FSL-J3 (CH 9-12)	19D903880P163
BSL/FSL-J1 (CH 17-20)	BSL/FSL-J2 (CH 13-16)	19D903880P161
BSL/FSL-J1 (CH 21-24)	BSL/FSL-J2 (CH 17-20)	19D903880P161

FROM TX CONNECTOR	TO ALARM CROSSCONNECT PANEL	CABLE
COMB. #1	B4032-J29 (ANT.1)	19C852676P3
COMB. #2	B4032-J30 (ANT.2)	19C852676P3
COMB. #3	B4032-J31 (ANT.3)	19C852676P3
COMB. #4	B4032-J32 (ANT.4)	19C852676P3
COMB. #5	B4032-J33 (ANT.5)	19C852676P3
COMB. #6	B4032-J34 (ANT.6)	19C852676P3

FROM STATION EXTERNAL REFERENCE INPUT	TO 10 MHz DISTRIBUTON AMPLIFIER #1	CABLE
CHANNEL 1	TB803-1	19B804122P7
CHANNEL 2	TB803-2	19B804122P6
CHANNEL 3	TB803-3	19B804122P5
CHANNEL 4	TB803-4	19B804122P4
CHANNEL 5	TB803-5	19B804122P8
CHANNEL 6	TB803-6	19B804122P7
CHANNEL 7	TB803-7	19B804122P6
CHANNEL 8	TB803-8	19B804122P5
CHANNEL 9	TB803-9	19B804122P9
CHANNEL 10	TB803-10	19B804122P8
CHANNEL 11	TB803-11	19B804122P7
CHANNEL 12	TB803-12	19B804122P6

FROM STATION EXTERNAL REFERENCE INPUT	TO 10 MHz DISTRIBUTION AMPLIFIER #2	CABLE
CHANNEL 13	T813-1	19B804122P4
CHANNEL 14	T813-2	19B804122P3
CHANNEL 15	T813-3	19B804122P2
CHANNEL 16	T813-4	19B804122P1
CHANNEL 17	T813-5	19B804122P6
CHANNEL 18	T813-6	19B804122P5
CHANNEL 19	T813-7	19B804122P4
CHANNEL 20	T813-8	19B804122P3
CHANNEL 21	T813-9	19B804122P7
CHANNEL 22	T813-10	19B804122P6
CHANNEL 23	T813-11	19B804122P5
CHANNEL 24	T813-12	19B804122P4

FROM	TO	CABLE
CH 1-4 PROG/DIAG J15	M1 J14	19D903880P123
CH 1-4 PROG/DIAG J15	CH 5-8 PROG/DIAG J15	19D903880P120
CH 5-8 PROG/DIAG J15	CH 9-12 PROG/DIAG J15	19D903880P120
CH 13-16 PROG/DIAG J15	M2 J15	19D903880P121
CH 13-16 PROG/DIAG J15	CH 17-20 PROG/DIAG J14	19D903880P120
CH 17-20 PROG/DIAG J15	CH 17-20 PROG/DIAG J14	19D903880P120
T813-ALM OUT	B403 J42	RPM 113 2821/4

Interrack Cabling List

(350A1888, Sh. 1, Rev. 1A)
(350A1888, Sh. 2, Rev. 1A)

REMOTE TRANSMIT SITE ONLY

FROM GPS RECEIVER	TO 10 MHz DISTRIBUTION AMPLIFER #2	CABLE
T801-B	T813-A	19B804122P10
T802-B	T813-B	19B804122P10
T801-ALM OUT	T813 'A' ALM IN	See Figure 1

CO-LOCATED TRANSMIT SDITE ONLY

FROM GPS RECEIVER	TO 10 MHz DISTRIBUTION AMPLIFER #2	CABLE
FROM	TO	CABLE
D801-A	T803-A	19B804122P25
D802-A	T803-B	19B804122P25
D801-B	T813-A	19B804122P25
D802-B	T813-B	19B804122P25
D801-DATA/CLOCK*	T800-J15	RPM 113 2516/3
D802-DATA/CLOCK*	T800-J16	RPM 113 2516/3
TRI1-S1T1	TX MUX-S1T1	RPM 113 2838/1
D801-ALM OUT	T803-'A' ALM IN	See Figure 1
D801-ALM OUT	T813-'A' ALM IN	See Figure 1

*Requires DB-9 'T' Adapter

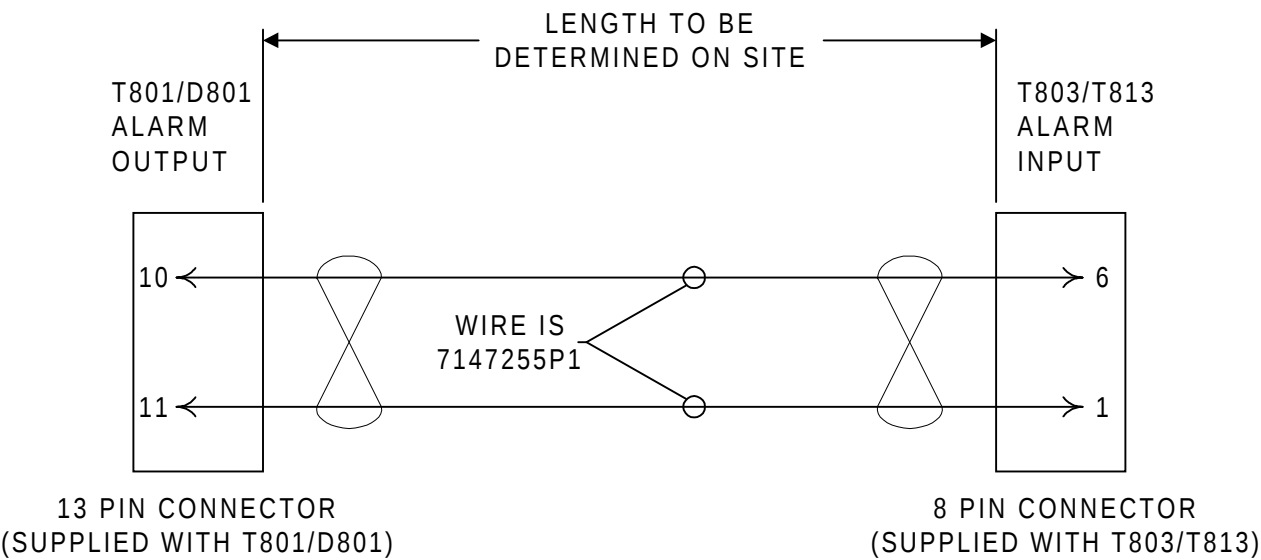


Figure 1 - Cable