

**MAINTENANCE MANUAL
PTT MODULE
19C852215G1**

TABLE OF CONTENTS

	<u>Page</u>
SPECIFICATIONS	1
DESCRIPTION	2
CIRCUIT ANALYSIS	2
OUTLINE DIAGRAM	4
SCHEMATIC DIAGRAM	6
PARTS LIST	7
WIRING LIST	8

SPECIFICATIONS*

STATION FUNCTIONS

Push-To-Talk (PTT)
Analog/Digital (A/D)

CONNECTORS

J1 and J2

Two 50 Pin Headers

J3

25 Pair Telco Connector

*These specifications are intended primarily for the use of the service technician. Refer to the appropriate Specifications Sheet in the applicable maintenance manual for the complete specifications.

DESCRIPTION

Push-To-Talk (PTT) Interface Module 19C852215G1 is used to connect PTT and Analog/Digital (A/D) signaling throughout an Enhanced Digital Access Communication System (EDACS™). The PTT Interface Module mounts in EDACS Interface Panel 19D904009 (refer to Maintenance Manual LBI-38812) when used in a Simulcast TX Common Equipment cabinet. It consist of two 50 pin headers J1 and J2 and one 25 pair Telco connector J3. Each PTT line is used to key a transmitter operating on a specific RF channel, **PTT IN CHN01** etc. Each A/D line is used to select either analog or digital transmission on a specific RF channel, **A/D IN CH01** etc.

CIRCUIT ANALYSIS

Inputs to the PTT Interface Module are through connector J1. All keying leads (PTT) connect from J1 to connectors J2 and J3. The A/D selection leads connect form J1 to J3 (refer to the following table). As an example, J1, Pin 1 connects to J2, Pin 1 and J3, Pin 1 (**PTT IN CH01**). J1, Pin 2 connects to J3, Pin 26 (**A/D IN CH01**). J1, Pin 3 connects to J2, Pin 3 and J3, Pin 3 (**PTT IN CH02**). J1, Pin 4 connects to J3, Pin 27 (**A/D IN CH02**). This arrangement allows looking into the end of the cable connecting to J3 and having the PTT and A/D pins directly opposite each other for the associated channel (See Figure 1).

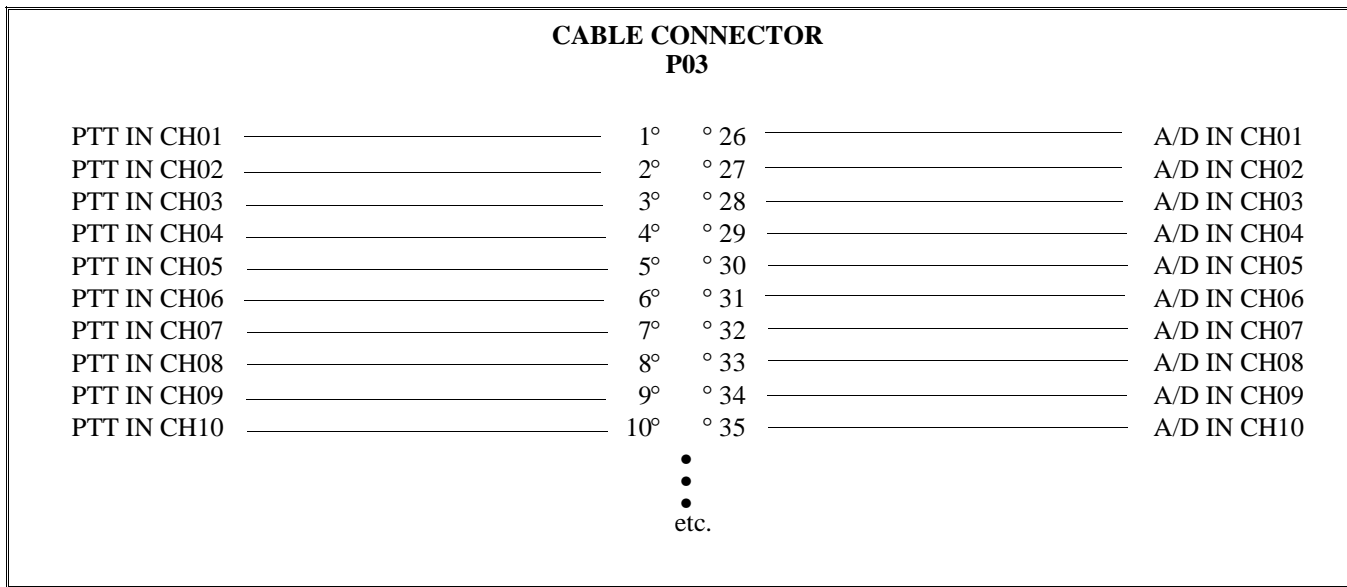


Figure 1 - Connections Looking Into The End Of Cable Connector P01

NOTE

The "P" numbers listed on the **WIRING LIST** (refer to the Table of Contents) refers to the connectors on the connecting cables, P01, P02, P03, etc.

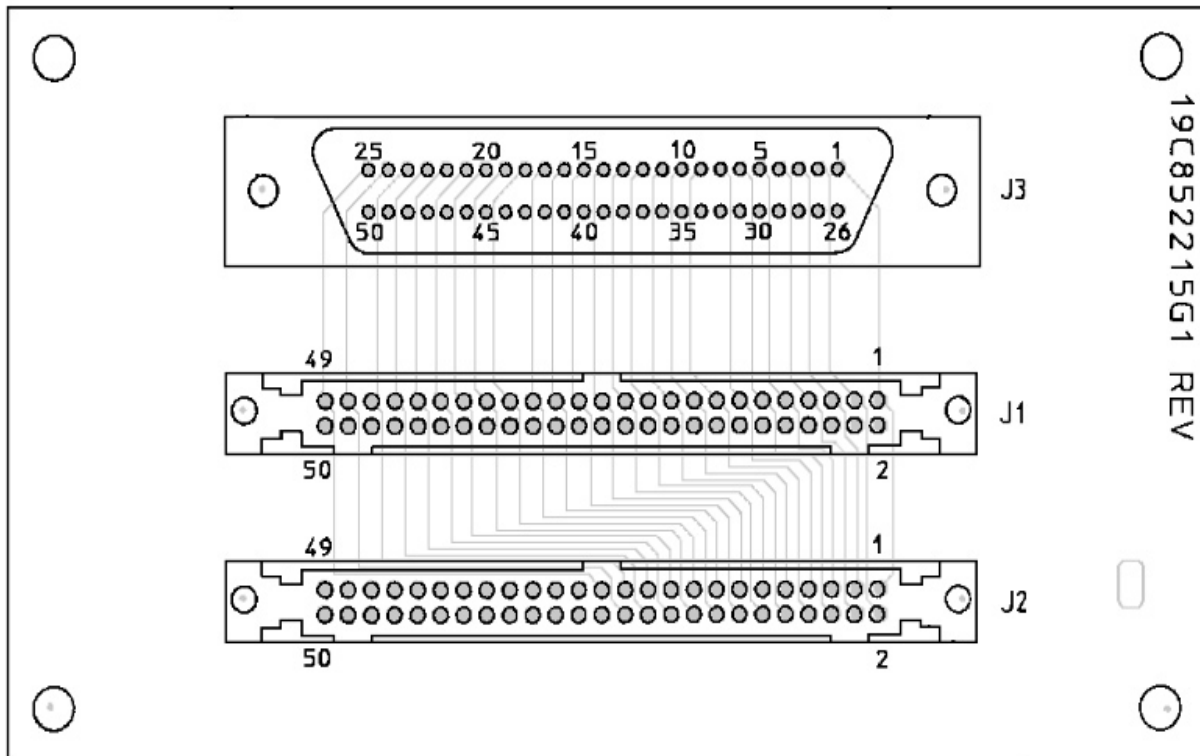
TABLE OF PTT INTERFACE MODULE CONNECTIONS

J1 & J2 50 PIN HEADER
J3 25 PAIR CHAMP

From	To	To	Function
J1-01	J2-01	J3-01	PTT IN CH01
J1-02		J3-26	A/D IN CH01
J1-03	J2-02	J3-02	PTT IN CH02
J1-04		J3-27	A/D IN CH02
J1-05	J2-03	J3-03	PTT IN CH03
J1-06		J3-28	A/D IN CH03
J1-07	J2-04	J3-04	PTT IN CH04
J1-08		J3-29	A/D IN CH04
J1-09	J2-05	J3-05	PTT IN CH05
J1-10		J3-30	A/D IN CH05
J1-11	J2-06	J3-06	PTT IN CH06
J1-12		J3-31	A/D IN CH06
J1-13	J2-07	J3-07	PTT IN CH07
J1-14		J3-32	A/D IN CH07
J1-15	J2-08	J3-08	PTT IN CH08
J1-16		J3-33	A/D IN CH08
J1-17	J2-09	J3-09	PTT IN CH09
J1-18		J3-34	A/D IN CH09
J1-19	J2-10	J3-10	PTT IN CH10
J1-20		J3-35	A/D IN CH10
J1-21	J2-11	J3-11	PTT IN CH11
J1-22		J3-36	A/D IN CH11
J1-23	J2-12	J3-12	PTT IN CH12
J1-24		J3-37	A/D IN CH12
J1-25	J2-13	J3-13	PTT IN CH13
J1-26		J3-38	A/D IN CH13
J1-27	J2-14	J3-14	PTT IN CH14
J1-28		J3-39	A/D IN CH14
J1-29	J2-15	J3-15	PTT IN CH15
J1-30		J3-40	A/D IN CH15
J1-31	J2-16	J3-16	PTT IN CH16
J1-32		J3-41	A/D IN CH16
J1-33	J2-17	J3-17	PTT IN CH17
J1-34		J3-42	A/D IN CH17
J1-35	J2-18	J3-18	PTT IN CH18
J1-36		J3-43	A/D IN CH18
J1-37	J2-19	J3-19	PTT IN CH19
J1-38		J3-44	A/D IN CH19
J1-39	J2-20	J3-20	PTT IN CH20
J1-40		J3-45	A/D IN CH20
J1-41	J2-21	J3-21	PTT IN CH21
J1-42		J3-46	A/D IN CH21
J1-43	J2-22	J3-22	PTT IN CH22
J1-44		J3-47	A/D IN CH22
J1-45	J2-23	J3-23	PTT IN CH23
J1-46		J3-48	A/D IN CH23
J1-47	J2-24	J3-24	PTT IN CH24
J1-48		J3-49	A/D IN CH24
J1-49	J2-25	J3-25	PTT IN CH25
J1-50		J3-50	A/D IN CH25

No connections are made to J2-26 through J2-50.

COMPONENT SIDE



(19C852215, Rev. 1)
(19C852216, Component Side, Rev. 0)

PTT MODULE
19C852215G1

Issue 1

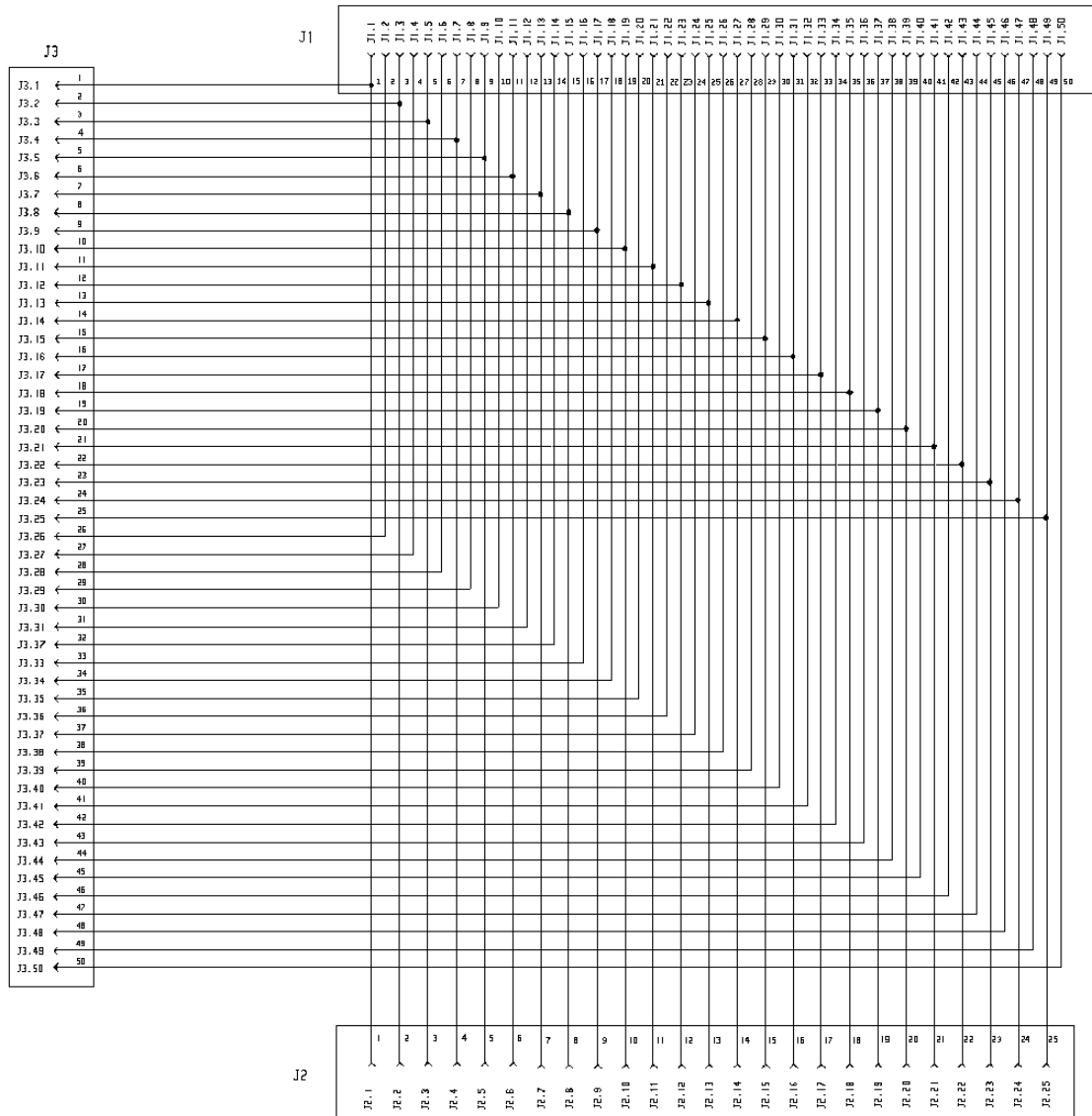
SYMBOL	PART NUMBER	DESCRIPTION
----- JACKS -----		
J1 and J2	19B235546	Two 50 Pin Header Bail Lock
J3	19B800935P14	25 Pair Telco Connector with Bail Lock
----- MISCELLANEOUS -----		
2	19C852212P1	Printed Wire Board
4	N80P9004B6	Machine screw: No. 4-40 x 1/4.
5	19B800935P15	Bail Clip
6	19B235546P3	Frame

* COMPONENTS, ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

PTT MODULE

SCHEMATIC DIAGRAM

LBI-38816



PTT MODULE
(19D903896, Rev. 0)

**PTT Module
Simulcast Transmit Site Application
19C852215G1**

P01 & P02 PIN HEADER P03 25 PAIR CHAMP			
P01-01	P02-01	P03-01	PTT IN CH01
P01-02		P03-26	A/D IN CH01
P01-03	P02-02	P03-02	PTT IN CH02
P01-04		P03-27	A/D IN CH02
P01-05	P02-03	P03-03	PTT IN CH03
P01-06		P03-28	A/D IN CH03
P01-07	P02-04	P03-04	PTT IN CH04
P01-08		P03-29	A/D IN CH04
P01-09	P02-05	P03-05	PTT IN CH05
P01-10		P03-30	A/D IN CH05
P01-11	P02-06	P03-06	PTT IN CH06
P01-12		P03-31	A/D IN CH06
P01-13	P02-07	P03-07	PTT IN CH07
P01-14		P03-32	A/D IN CH07
P01-15	P02-08	P03-08	PTT IN CH08
P01-16		P03-33	A/D IN CH08
P01-17	P02-09	P03-09	PTT IN CH09
P01-18		P03-34	A/D IN CH09
P01-19	P02-10	P03-10	PTT IN CH10
P01-20		P03-35	A/D IN CH10
P01-21	P02-11	P03-11	PTT IN CH11
P01-22		P03-36	A/D IN CH11
P01-23	P02-12	P03-12	PTT IN CH12
P01-24		P03-37	A/D IN CH12
P01-25	P02-13	P03-13	PTT IN CH13
P01-26		P03-38	A/D IN CH13
P01-27	P02-14	P03-14	PTT IN CH14
P01-28		P03-39	A/D IN CH14
P01-29	P02-15	P03-15	PTT IN CH15
P01-30		P03-40	A/D IN CH15
P01-31	P02-16	P03-16	PTT IN CH16
P01-32		P03-41	A/D IN CH16
P01-33	P02-17	P03-17	PTT IN CH17
P01-34		P03-42	A/D IN CH17
P01-35	P02-18	P03-18	PTT IN CH18
P01-36		P03-43	A/D IN CH18
P01-37	P02-19	P03-19	PTT IN CH19
P01-38		P03-44	A/D IN CH19
P01-39	P02-20	P03-20	PTT IN CH20
P01-40		P03-45	A/D IN CH20
P01-41	P02-21	P03-21	PTT IN CH21
P01-42		P03-46	A/D IN CH21
P01-43	P02-22	P03-22	PTT IN CH22
P01-44		P03-47	A/D IN CH22
P01-45	P02-23	P03-23	PTT IN CH23
P01-46		P03-48	A/D IN CH23
P01-47	P02-24	P03-24	PTT IN CH24
P01-48		P03-49	A/D IN CH24
P01-49	P02-25	P03-25	PTT IN CH25
P01-50		P03-50	A/D IN CH25

Continued

P01 & P02 PIN HEADER P03 25 PAIR CHAMP			
	P02-26 P02-27 P02-28 P02-29 P02-30 P02-31 P02-32 P02-33 P02-34 P02-35 P02-36 P02-37 P02-38 P02-39 P02-40 P02-41 P02-42 P02-43 P02-44 P02-45 P02-46 P02-47 P02-48 P02-49 P02-50		

