

INSTRUCTIONS FOR REMOTE KEYING PANEL INTERFACE OPTION 7442

(FOR MASTR PRO '72 REMOTE/REPEATER STATION)

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DESCRIPTION

Option 7442 modifies the MASTR PRO '72 Remote/Repeater Station when used with the Remote Keying Panel in voting systems. The option adds a 19D413943G3 Tone/Audio Panel which allows using the station receiver as one of the voting system satellite receivers. A special 19A129631G3 overlay harness is used to connect the Tone/Audio Panel. Modification Kit 19A129630G1 adds the two option jacks J1203 and J1204 to the Station Control Shelf.

Repeater Board Modification Kit 19A130070G1 and Audio Board Modification Kit 19A130078G1 prevent the station from keying for approximately 200 milliseconds when the receiver squelch is opened. This allows the Remote Keying System to key the station as though it were a remote control station. Remote priority thus overrides the repeat keying. If the remote Keying should fail, the repeater will then automatically key (after the 200 millisecond delay), providing emergency backup to the Remote Keying System.

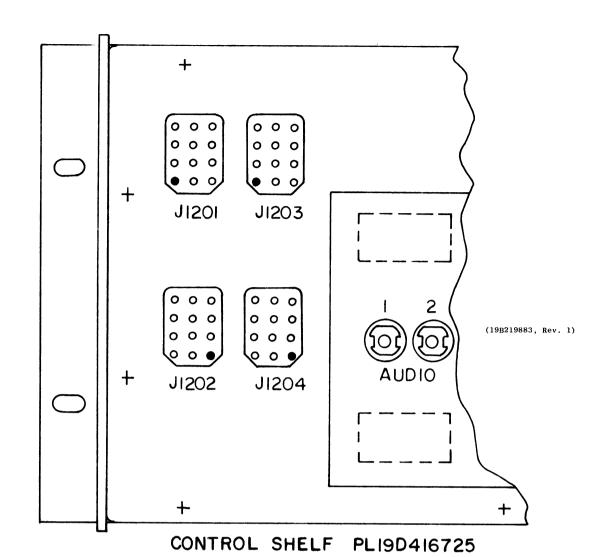
The station must also be modified for 4-Wire Audio. Installation of the 4-Wire Audio Kit 19A129508Gl is provided in the Remote Control Shelf MAINTENANCE MANUAL LBI-4490.

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LBI-4999

OPTION JACK KIT 19A129630G1

SYMBOL	GE PART NO.	DESCRIPTION
J1203 J1204	GE PART NO. 19A116647P4 19A116647P6	DESCRIPTION JACKS AND RECEPTACLES Connector, printed wiring: 12 terminals, sim to Molex 09-18-5121. Connector, printed wiring: 12 terminals, sim to Molex 09-18-5927.



THESE INSTRUCTIONS COVER THE INSTALLATION OF THE OPTION JACK KIT PL19A129630 ON THE CONTROL SHELF.

INSTRUCTIONS FOR INSTALLING (PL19A129630) OPTION JACK KIT.

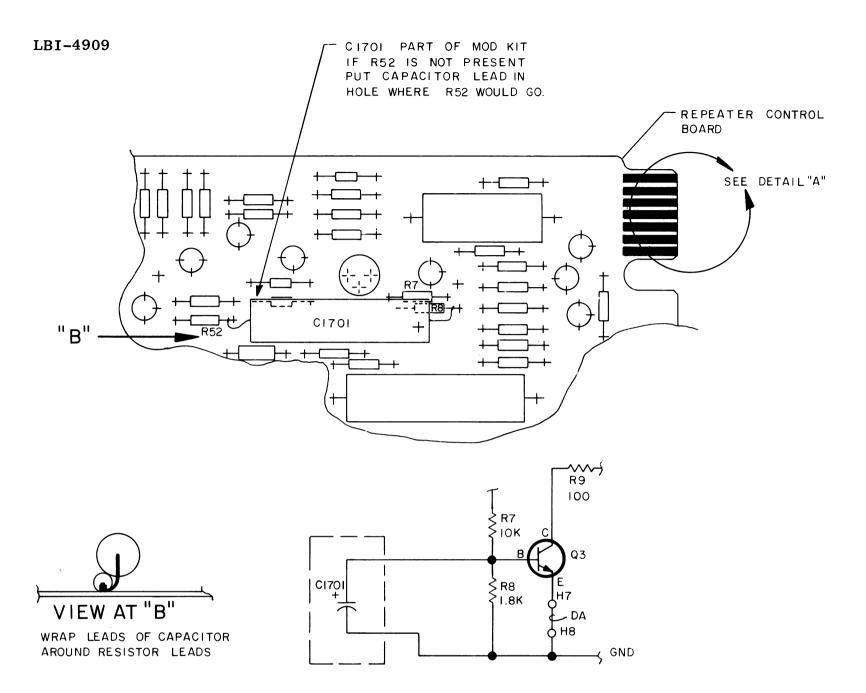
- I. INSTALL JI203 ON BACK PLANE BY SOLDERING IN PLACE. TAKE NOTICE OF THE ORIENTATION OF THE JACK AND ALSO THE LOCATION OF THE "KEY" PIN.
- 2. INSTALL J1204 ON BACK PLANE BY SOLDERING IN PLACE. TAKE NOTICE OF THE ORIENTATION OF THE JACK AND ALSO THE LOCATION OF THE KEY PIN.

INSTALLATION INSTRUCTIONS

OPTION JACK KIT 19A129630G1

Issue 1 3

LBI-4909



THESE INSTRUCTIONS COVER THE INSTALLATION OF THE PLI9AI30070GI MODF KIT IN THE 19D416675 REPEATER CONTROL BOARD FOR USE WITH THE REMOTE KEYING PANEL.

INSTRUCTIONS:

- I. INSTALL CAPACITOR AS SHOWN & SOLDER LEADS.
- 2. AFTER ADDITION OF THIS KIT TEST BY APPLYING A PROPER INPUT (GND) TO PIN A12 AND OBSERVING A1. THE OUTPUT SHOULD BE DELAYED BY 200 m SEC. + 20 %.

INSTALLATION INSTRUCTIONS

REPEATER BOARD MODIFICATION KIT 19A130070G1

Issue 1





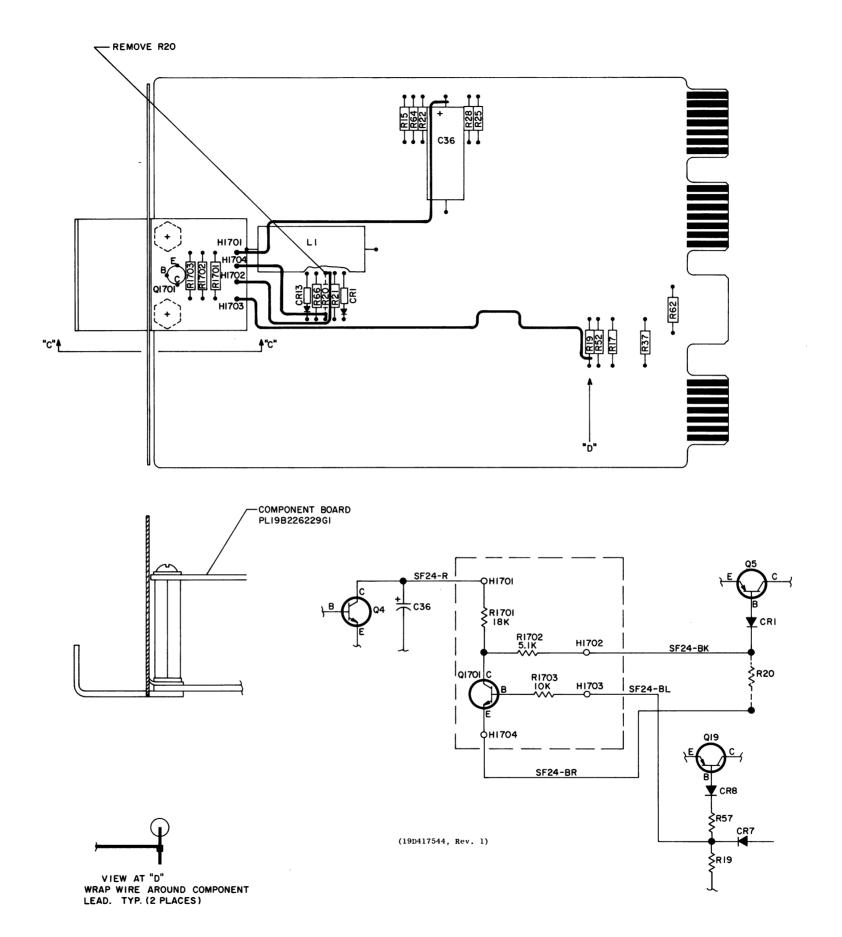
(19C320906, Rev. 1)

PARTS LIST

LBI-4998

REPEATER BOARD MODIFICATION KIT 19A130070G1

SYMBOL	GE PART NO.	DESCRIPTION
C1701	19A115680P10	
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THESE INSTRUCTIONS COVER THE INSTALLATION OF THE PL19A130078GI MOD KIT IN THE 19D416667 AUDIO BOARD FOR USE WITH THE REMOTE KEYING PANEL.

INSTRUCTIONS:

- 1. REMOVE R20.
- REMOVE 2 #4 NUTS SECURING HANDLE AND FRONT PANEL TO PRINTED BOARD. REPLACE WITH 1.10" LONG SPACERS AND DISCARD NUTS.
- MOUNT PL19B226229GI COMPONENT BOARD TO SPACERS USING 2 #4 X I/4 LG. SCREWS AND L'WASHERS.
- 4. SOLDER THE 4 LEADS COMING FROM PL19B226229GI COMPONENT BOARD AS SHOWN. (TWO LEADS GO IN HOLES FORMERLY USED BY R20).
- 5. TEST PER INSTRUCTIONS BELOW.

TEST INSTRUCTIONS:

NOTE A MONITOR RECEIVER IS REQUIRED FOR THIS TEST.

- INJECT A STANDARD SIGNAL TO THE RECEIVER IN THE STATION. (100uv, 1000 Hz @3KHz DEVIATION)
- 2. CHECK AUDIO AT MONITOR.
- 3. CONNECT A MASTR CONTROLLER TO THE DUPLEX AUDIO PAIR ON THE CONTROL SHELF.
- 4. WHILE INJECTING THE SIGNAL TO THE RECEIVER, KEY THE MASTR CONTROLLER. OBSERVE THAT THE MASTR CONTROLLER HAS SUPERVISION OVER REPEAT AUDIO.

INSTALLATION INSTRUCTIONS

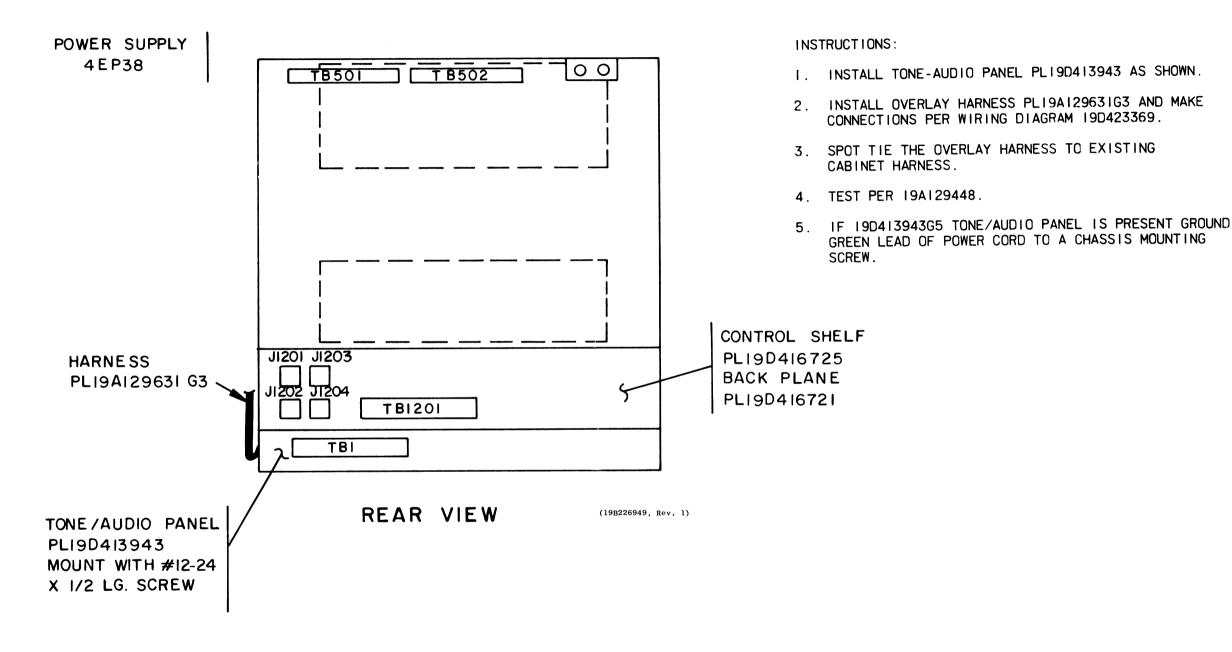
AUDIO BOARD MODIFICATION KIT 19A130078G1

PARTS LIST

LBI-4966

AUDIO BOARD MODIFICATION KIT 19A130078G1

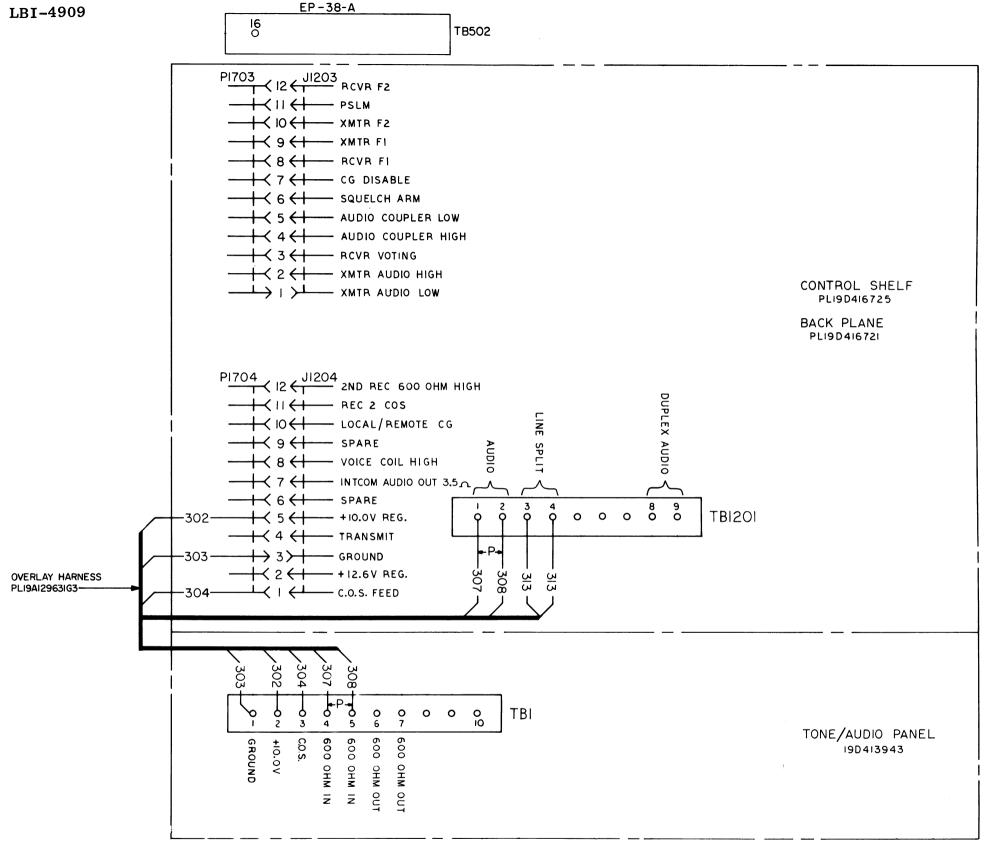
SYMBOL	GE PART NO.	DESCRIPTION
		COMPONENT BOARD 19B226229G1
Q1701	19A115889P1	TRANSISTORS
R1701 R1702 R1703	3R152P183J 3R152P512J 3R152P103J	
	7142162P81 N404P11C6 N80P9004C6	MISCELLANEOUS



INSTALLATION INSTRUCTIONS

TONE/AUDIO PANEL 19D413943G3 AND HARNESS 19A129631G3

Issue 1 7



(19D423369, Rev. 0)

INTERCONNECTION DIAGRAM

REMOTE KEYING PANEL INTERFACE

Issue 1



VIEW OF WIRING END OF PI704

INSTRUCTIONS:

- CABLE SHOULD BE CONSTRUCTED IN ACCORDANCE WITH WIRING INSTRUCTION 194121850.
- CABLE SHOULD BE CONSTRUCTED IN SUCH A WAY AS TO ALLOW ENOUGH SLACK TO PERMIT MOUNTING A 3.50" OPTION PANEL BETWEEN CONTROL SHELF AND TONE/AUDIC PANEL.
- 3. ALL WIRES ARE SF22 EXCEPT AS FOLLOWS:

LL WIRES ARE SEZZ LAGE.

303 & 313 ARE 16 AWG.
707 & 308 ARE 2-22 BR

4. TERMINATE WIRES AS FOLLOWS:

302 & 304 303 AT CONTROL SHELF AT CONTROL SHELF 5496809P17 19B209288P2 AT TONE/AUDIC PANEL 19B209260P102 302,304 AT TONE/AUDIO PANEL 19B209260P103 307,308,313 AT CONTROL SHELF

5. MARK WIRES IN CABLE ON BOTH ENDS WITH CORRESPONDING WIRE NUMBER USING MARKER STRIP 198209090.