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## LM-DTMF Programming Instructions

Ritron model LM-DTMF is a factory installed DTMF decoder for the Loudmouth™ Wireless PA System receiver. With an LM-DTMF installed, the Loudmouth™ receiver must first receive the programmed DTMF code before it can activate the speaker. After the DTMF code has been successfully decoded, the PC programmable **Two-Tone Reset Time** sets the length of time the Loudmouth™ receiver can go without receiving a signal before the DTMF code is once again required for access. Factory default **Two-Tone Reset Time** is 5 seconds.

**NOTE:** The Loudmouth™ receiver should NOT be programmed for 2-Tone or Selcall decode when the LM-DTMF decoder is installed.

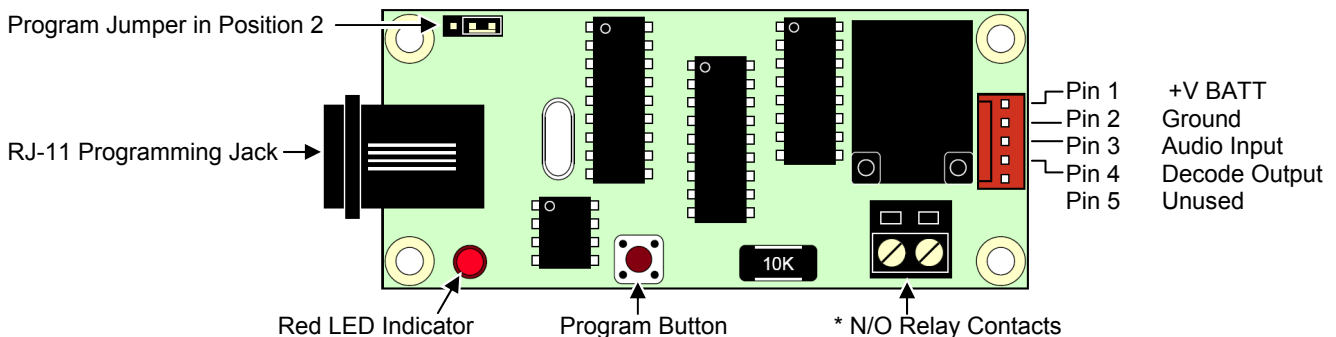
The LM-DTMF can be programmed for up to 15 DTMF characters (0-9, \* and # signs) to create a unique Loudmouth™ access code. The decoder has been programmed for code 1-2-3 from the factory. The LM-DTMF decoder can be programmed by two methods, using a DTMF Touch-Tone telephone or over-the-air programming using a DTMF equipped radio that operates on the Loudmouth™ frequency and tone.

### Programming the LM-DTMF with a DTMF Touch-Tone Telephone

1. Remove the Loudmouth™ receiver front cover and apply power using the RPS-1A power supply.
2. Put the Loudmouth™ receiver into Field Programming mode per the instructions in the Loudmouth™ User Manual.
3. Plug a Touch-Tone telephone into the RJ-11 jack on the LM-DTMF decoder board.
4. Place the LM-DTMF program jumper into position 2 (refer to the illustration below).
5. Press the red Program Button on the LM-DTMF board. The red LED indicator light will turn off.
6. Enter the DTMF code (up to 15 characters) using the keypad of the Touch-Tone telephone. The red LED will flash each time a DTMF character is entered.
7. Press the red Program Button on the LM-DTMF board. The red LED indicator light will turn on.
8. Press the Program Enter button on the Loudmouth™ receiver to leave field programming mode.
9. Place the LM-DTMF program jumper back into position 1 (refer to the illustration below).

### Programming the LM-DTMF over –the-air with a DTMF equipped radio

1. Remove the Loudmouth™ receiver front cover and apply power using the RPS-1A power supply. The AFB-1545 antenna should be connected to the Loudmouth™ receiver.
2. Be sure the LM-DTMF program jumper is in position 1 (refer to the illustration below).
3. Press the red Program Button on the LM-DTMF board. The red LED indicator light will turn off.
4. Using your DTMF equipped radio, transmit a signal to the Loudmouth™ receiver and send the DTMF code (up to 15 characters). The red LED will flash each time a DTMF character is received.
5. Press the red Program Button on the LM-DTMF board. The red LED indicator light will turn on.



**\* N/O Relay Contacts** The normally-open relay contacts included on the LM-DTMF decoder board provide a momentary 1-second switch closure whenever the DTMF code is decoded.