

## External Speaker for GTX Radio

<ul style="list-style-type: none"> <li><b>GTX Mobile Accessory Jack Pin Orientation Looking From The Rear</b></li> </ul>							
<b>Top of radio housing</b>							
2	4	6	8	10	12	14	16
1	3	5	7	9	11	13	15

“Normal “ connections are a wire from Pin 13 to pin 16 and Pin 10 to pin 4.

The table below summarizes the location and usage of each pin. See the Internal Configuration Switch section for more information on the rows with red text, as these signals may have alternate functions in some radios.

<b>GTX Mobile Accessory Jack Pins and Signals</b>		
<b>Pin #</b>	<b>Signal Name</b>	<b>Description and Usage</b>
1	EXT SPKR -	Connect to an external speaker with pin 16
2	EXT MIC AUDIO	Microphone-level audio input
3	EXT PTT	Push-to-talk input
4	EXT ALARM	Active low output to drive a relay
5	FLAT TX AUDIO	Line-level audio input
6	SCI DATA IN	Not used
7	GROUND	Ground for PTT and audio - NOT FOR SPEAKER
8	SCI DATA OUT	Not used
9	EMG SWITCH	Low input activates alarm functions in radio
10	IGNITION CTRL	Must be pulled high to let radio turn on
11	FLAT RX AUDIO	Flat receive audio output
12	GP I/O	Not used

## External Speaker for GTX Radio

13	INT SPKR	Connect to pin 16 to activate internal speaker
14	HOOK	Low input to activate RX PL/DPL
15	RSSI BUF	Analog output of rcvd signal strength: 1.5 - 4.5 VDC
16	EXT SPKR +	Connect to an external speaker or pin 13

NOTE: Clarification on the use of speaker pins 1, 13, and 16:

- To enable the internal radio speaker, connect pin 13 to pin 16.
- To use an external speaker, connect it to pins 1 and 16, and DON'T ground either side. This means that any audio test equipment (such as you would use to make a quieting measurement) must be on the far side of a 4 ohm or 8 ohm 1:1 audio transformer. Good car stereo shops are one source of these.

Simultaneous use of both an internal and external speaker is not recommended.

To add a speaker jack, use the Radio Shack 3 wire shorting mono 3.5mm jack or MOUSER P/N 161-4035-E (\$0.90).

Connect the shield side of the jack to pin 1, Connect the TIP side of the jack to pin 16 and connect the shorting side of the jack to pin 13. With no plug in place, the tip and shorting side are connected which enable the internal speaker. With the plug in place, the shield (body) of the plug and tip connect to the external speaker connections and OPEN the internal speaker connection.

