7.3.3 Received Audio Line Adjustments

Step 1. Connect an RF signal generator to the DeskTrac antenna port (see Figure 2). Select a RF signal of 1 mV RMS level at the receive frequency. Modulate the RF signal with a 1 KHz sine wave at 3KHz deviation.

Step 2. Connect a 600-Ohm resistor across the receive line wires (see Table 8). Measure the Rx line voltage level across the resistor.

Step 3. Adjust the RX line level using the DeskTrac Radio Service Software (RSS). The output level should not exceed +5 dBm.

7.4 LINE CONTROL BOARD (LCB) JUMPERS

The following paragraphs provide LCB jumper information, required for determining the system operation.

NOTE
Jumper settings are different for board versions A and B.

7.4.1 2/4-Wire Operation, Version A

Table 3. 2/4-Wire Operation

Jumper	2-Wire	4-Wire
JU39	out	in
JU3	1–2 3	1 2–3
JU31	out	in
JU4	1 2–3	1–2 3

Factory setting is for 2-wire operation.

7.4.2 Remote Audio Conditioning, Version A

Table 4. Remote Audio Conditioning

Jumper	ACTIVE		NOT ACTIVE	
	IN	OUT	IN	OUT
De-emphasis JU41 JU42	X	X	X	X
Pre-emphasis JU48 JU53	X	X	X	X
RX GT Notch JU43 JU44	X	X	X	X

Table 4. Remote Audio Conditioning (cont.)

Jumper	ACTIVE		NOT ACTIVE	
	IN	OUT	IN	OUT
TX GT Notch JU51		X	X	
AGC Gain JU49		X	X*	

Factory setting should have all functions set to ACTIVE for tone remote control. For DC remote control, the RX GT Notch and the TX GT Notch are NOT ACTIVE.

GT: Guard Tone

* For line loss in excess of 20 dB

7.4.3 2/4-Wire Operation, Version B

Table 5. 2/4-Wire Operation

Jumper	2-Wire	4-Wire
JU1	out	in
JU10	1–2 3	1 2–3
JU6	out	in
JU5	1 2–3	1–2 3

Factory setting is for 2-wire operation

7.4.4 Remote Audio Conditioning, Version B

The jumpers in Tables 6 and 7 are printed circuit jumpers, intended for special use. For proper jumper setting, short or cut on print.

Table 6. Remote Audio Conditioning

Jumper	ACTIVE		NOT ACTIVE	
	SHORT	CUT	SHORT	CUT
De-emphasis (note 1) JU12 JU11	X	X	X	X
Pre-emphasis (note 2) JU14 JU15	X	X	X	X
AGC Gain (note 3) JU13	X			X

Factory setting should have all functions set to the NOT ACTIVE position.

Note 1: Operates on the RXA flat receive audio output.

Note 2: Operates on the TXA transmit audio.

Note 3: Adds gain to lines with losses higher than 20 dB.