

Troubleshooting Procedures

Table 4. R*I*C*K General Problems

Problem	Possible Cause
R*I*C*K dead, green LED does not light when enable switch is depressed.	<ol style="list-style-type: none"> 1. "Receiver" radio not turned ON. 2. Loose or bad cable from "receiver" radio to R*I*C*K. 3. Open fuse, F1, in R*I*C*K. 4. External supply not turned ON (if applicable).
First part of message not repeated.	<ol style="list-style-type: none"> 1. The user must delay conversation to allow for delays in repeater and field radios from: <ol style="list-style-type: none"> a. PL/DPL decoding. b. Requirements of signalling systems. 2. If using VOX: <ol style="list-style-type: none"> a. User speaking too softly. b. Inadequate handset audio level from "receiver" radio.
In bi-directional repeater configuration, part or all of the reverse conversation not repeated.	<ol style="list-style-type: none"> 1. 0-second drop-out delay not selected (S2-11 not ON). 2. The user must delay conversation to allow for delays in repeater and field radios from: <ol style="list-style-type: none"> a. PL/DPL decoding. b. Requirements of signalling systems. 3. "Receiver" radio is operating in another repeater system and is keeping "transmitter" radio keyed during drop-out delay. Consult Radius Product Services for possible remedy.
"Tinny" repeated audio (lacks low frequencies).	<ol style="list-style-type: none"> 1. Flat receive audio selected with microphone transmit audio. Check: <ol style="list-style-type: none"> a. Position of JU551 in "receiver" radio. b. S2-5 and S2-6 in R*I*C*K. c. If bi-directional, position of JU551 in "transmitter" radio. d. If bi-directional, S2-8 and S2-9 in R*I*C*K.
"Bassy" repeated audio (lacks high frequencies).	<ol style="list-style-type: none"> 1. EIA de-emphasized receive audio selected with flat transmit audio. Check: <ol style="list-style-type: none"> a. Position of JU551 in "receiver" radio. b. S2-5 and S2-6 in R*I*C*K. c. If bi-directional, position of JU551 in "transmitter" radio. d. If bi-directional, S2-8 and S2-9 in R*I*C*K.
PL/DPL signalling "passing through" R*I*C*K.	<ol style="list-style-type: none"> 1. Flat receive audio selected. See "'Tinny' repeated audio" above.
PL/DPL signalling not "passing through" R*I*C*K.	<ol style="list-style-type: none"> 1. EIA de-emphasized receive audio selected. See "'Bassy' repeated audio" above.
Undesirable squelch tails and noise transmitted during drop-out delay.	<ol style="list-style-type: none"> 1. Audio gate enabled with flat receive audio selected (S2-7 ON, should be OFF).
Audio OK in repeater operation (between field radios) but noisy when using local microphone on a repeater radio.	<ol style="list-style-type: none"> 1. Flat audio has been selected. Select EIA de-emphasized/muted audio on repeater radios (JU551 on logic board of each radio must be in "B" position). 2. If flat audio is selected, S2-7 in R*I*C*K should be OFF.