



Radio Problem Check List

Most aircraft radio problems are installation-related and are first experienced with transmission. To make sure you don't send in a radio for repair that will turn out to be in perfectly good shape, do yourself the favor of first checking for installation problems. The typical problem areas are:

POWER

- Low voltage at the radio will affect transmission before it affects reception. Reception at the other end will be weak or garbled and in some cases you can see the display blinking during transmit. Most radios require a minimum of 11VDC – measured at the radio, not at the battery – in order to transmit properly.
- Low power can be caused by
 - Low battery power – old battery, poorly charged battery, wrong battery type
 - High resistance at some point in the wiring harness such as corroded contact points, inadequate wire size or too long wires.
 - High resistance can also be caused by avionics switches, circuit breakers and fuse holders.
 - Other loads on the battery
- No power can be caused by an open fuse or circuit breaker

WARNING: Disconnect the radio from power when you connect the battery to a battery charger. Excess voltage could damage the radio even if it is turned off.

ANTENNA

- A short or a break in the antenna could result in weak or no transmission even if the radio continues to receive OK.
- An improperly matched antenna could also affect transmission, something to check before you install a new radio or replace an antenna.

PTT SWITCH

- The PTT switch could be broken or not connected properly. An indication would be that the display's transmit indicator does not come on when you use the PTT switch. Check the installation manual for proper wiring.

MICROPHONE

- Is the microphone connected properly?
- Is the microphone actually working? If it works with your intercom it's probably OK.
- Are you using the correct microphone type with this radio? With Becker and Walter Dittel there is an internal selection for dynamic or standard mike. Microair is set up for standard mike, but you can use a dynamic mike if it is connected through an amplifier.

If you have not found any of the above problems, go to step 2 in the process: print the Radio Repair Order Form from the Services section of our website www.erieaviation.com, fill it in and send it with the radio to us for a diagnosis and repair.

Erie Aviation, Inc.
1607 Asbury Road
Erie, PA 16505

Tel: 814-838 8934
Fax: 814-833 3672
rickl@erieaviation.com
www.erieaviation.com