



# Most Common Service Questions for the Icom IC-R7000 and IC-R7100

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## IC-R7000

- Symptom:** Radio is off frequency.
- Probable Cause:** 2nd L.O. needs alignment.
- Cure:** Align L39 on PLL unit: Set displayed frequency to 511.9999 MHz and adjust L39 for 768.0000 MHz at J6 on PLL unit.
- Remarks:** This is a common problem in the IC-7000. We recommend that the 2nd L.O. frequency be checked on all IC-7000s that come in for repair.
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- Symptom:** No digital display when the radio warms up.
- Probable Causes:** 1) Faulty DC-DC converter on display unit. 2) Bad solder at flex cable between display unit and DS1 display.
- Cure:** Replace dried-out electrolytic capacitors in display unit. Resolder cracked joints at display flex cable.
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- Symptom:** Low RX on all bands.
- Probable Cause:** Incorrect voltages from DC-DC unit.
- Cure:** Check for correct output voltages at J2 of the DC-DC board. Replace C1 and C2 (both 33uF, 16v) on the DC-DC unit if voltages are incorrect.
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- Symptom:** Distorted audio in FM mode, especially as unit warms-up.
- Probable Cause:** Bad capacitor on IF unit. Unit needs update.
- Cure:** Replace electrolytic capacitor C135 on IF unit and update IF unit: Install a 100k resistor between the negative side of C135 and ground.
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# IC-R7100

**Symptom:** No receive at all.

**Probable Cause:** PLL unlock.

**Cure:** Replace faulty C69 x2 on PLL unit.

**Symptom:** No receive at all on same bands after warm-up.

**Probable Cause:** PLL unlock.

**Cure:** Bad solder and/or bad Q1 or Q3 in VCO unit.

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