

Model: IC-R7000

Division: Amateur

Note: This service bulletin is meant for technical personnel with experience working on solid state communications equipment. Damage caused by improperly installing this modification may cause ICOM to charge for subsequent repairs to the product. ICOM does not warrant this modification.

Bulletin #: 3Nov86-001

Date: November 3, 1986

Subject: Reduce intermodulation from FM stations (70-108 MHz) and TV stations (165-245 MHz)

#### Procedure

Write to ICOM's customer service department for a copy of this service bulletin.

Bulletin #: 3Nov86-004

Date: November 3, 1986

Subject: The frequency displayed and actually received are not the same

#### Procedure

1. Check the location of C24 and W80 on the logic board (compare against the schematic) to insure that they are installed in the correct position.

Bulletin #: 24287-001

Subject: The S-meter may not drop to 0 when using the receiver between 500 MHz and 800 MHz with no signal.

#### Procedure

1. Install a 10mf 16V electrolytic capacitor between the emit-

ter of Q5 and ground on the Dc to DC Converter board.

Bulletin #: 24587-002

Subject: Increase the number of memory channels to 200

#### Procedure

1. Cut foil trace to IC-8 pin 19 on the logic board to remove it from ground.
2. Add a 47K resistor and between pin 19 and pin 24 of IC-8.
3. Add a SPST switch from pin IC-8 pin 19 to ground.

#### Operation

1. With the new switch closed access to memory channel 0 to 99 is possible.
2. With the new switch open access to memory channels 100 to 199 is possible.

Note: It is not possible to scan between the two banks of memory.

Bulletin #: 35187-001

Subject: Audio becomes distorted (clipped) when the radio is warm. The period of time required for this problem to become evident varies depending on the ambient temperature. This problem may not be evident at low audio levels.

#### Procedure

Write to ICOM's customer service department for a copy of this service bulletin.

Bulletin #: 35887-003

Subject: The remote relay sometimes stays energized after a signal is no longer present. The radio must be turned off and back on to clear this situation

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before the modification.

#### Procedure

1. Remove the covers from the radio and remove the main circuit board on the side of the radio.
2. Cut the trace between the base of Q5 and R106 on the foil side of the main board.
3. Install a RD6A diode (this part is critical and must be obtained from ICOM) with its cathode toward R106 across the cut in the trace.
4. Reinstall the board and insure mechanical clearance of the new diode.
5. Verify proper operation of the recorder function.

Bulletin #: 11688-001

Date: April 25, 1988

Subject: To improve audio quality in SSB operation

#### Procedure

1. Remove the top and bottom cover from the radio.
2. Remove the PLL board from the radio.
3. Change IC-1 from a MA78M08A to a MA78M08 (ICOM P/N 900-00191) on the PLL board.
4. De-Solder and remove the VCO from the PLL board.
5. Change C6 (33 mf 10V electrolytic) to a 220 mf 10V electrolytic (ICOM P/N 918-01477). Install shrink tubing on the capacitor leads.
6. Change C17 (33 mf 10V electrolytic) to a 220 mf 10V electrolytic (ICOM P/N 918-01477). Install shrink tubing on the capacitor leads.
7. Reinstall the VCO unit on the PLL board.
8. Install the PLL board in the radio.

9. Replace the top and bottom cover.

Bulletin #: 13889-015

Date: April 1, 1988

Subject: If display fails to operate at power on

#### Procedure

1. Remove the top and bottom cover from the radio.
2. Remove the front panel sub-assembly from the main chassis of the radio.
3. Remove the DC to DC converter from the radio.
4. Replace the following parts on the indicated boards.

Designator	Current Part	Board	New Part	ICOM P/N
Q1 and Q2	2CS1214	DC to DC Converter	2SC2655	906-00385
R1 and R2	3.3 K	DC to DC Converter	5.16K	915-01173
C2 and C4		DC to DC Converter	.001mf 50V	918-01500
Q11 & Q12		Display Board	2SC2655	906-00385
R31 & R32	3.3 K	Display	5.16 K	915-01173
C13 & C16		Display	.001mf 50V	918-01500

5. Reassemble the boards and front panel on the radio.
6. Reinstall the top and bottom cover on the radio.
7. Test

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