

INSTRUCTION MANUAL

VHF LAND MOBILE RADIO

IC-F1020

UHF LAND MOBILE RADIO

IC-F2020

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Icom Inc.

**SmarTrunk II™
Compatible**



IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the **IC-F1020** and **IC-F2020 LMR TRANSCEIVERS**.

EXPLICIT DEFINITIONS

The following explicit definitions apply to this manual.

WORD	DEFINITION
⚠WARNING	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

SmarTrunk II™ is a Trademark of SmarTrunk Systems, Inc.

CAUTIONS

⚠WARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

NEVER connect the transceiver to a power source of more than 16 V DC such as a 24 V battery. This connection will ruin the transceiver.

NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver might be damaged.

NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

NEVER allow children to touch the transceiver.

NEVER expose the transceiver to rain, snow or any liquids.

DO NOT connect the transceiver to a power source using reverse polarity. This connection will not only blow fuses but also may damage the transceiver.

USE supplied microphone only. Other microphones have different pin assignments and may damage the transceiver.

TABLE OF CONTENTS

IMPORTANT	i
EXPLICIT DEFINITIONS	i
CAUTIONS	i
TABLE OF CONTENTS	ii
1 PANEL DESCRIPTION	1–5
■ Front panel	1
■ Programmable function keys	2
■ Function display	5
2 OPERATION	6–8
■ Turning power ON	6
■ Channel selection	6
■ Receiving and transmitting	7
◇ Transmitting notes	7
◇ DTMF transmission	8
3 CONNECTION AND INSTALLATION	9–12
■ Rear panel and connection	9
■ Unpacking	10
■ Mounting	11
■ Separation	11
■ Optional UT-105 installation	12
4 OPTIONAL SmarTrunk II™ OPERATION	13–15
■ SmarTrunk II™ and conventional modes	13
■ SmarTrunk II™ operation	13
5 OPTIONS	16

DO NOT use or place the transceiver in areas with temperatures below -30°C (-22°F) or above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$) or, in areas subject to direct sunlight, such as the dashboard.

AVOID operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out if the transceiver is in transmission while the vehicle's engine OFF.

AVOID placing the transceiver in excessively dusty environments.

AVOID placing the transceiver against walls. This will obstruct heat dissipation.

AVOID the use of chemical agents such as benzine or alcohol when cleaning, as they damage the transceiver surfaces.

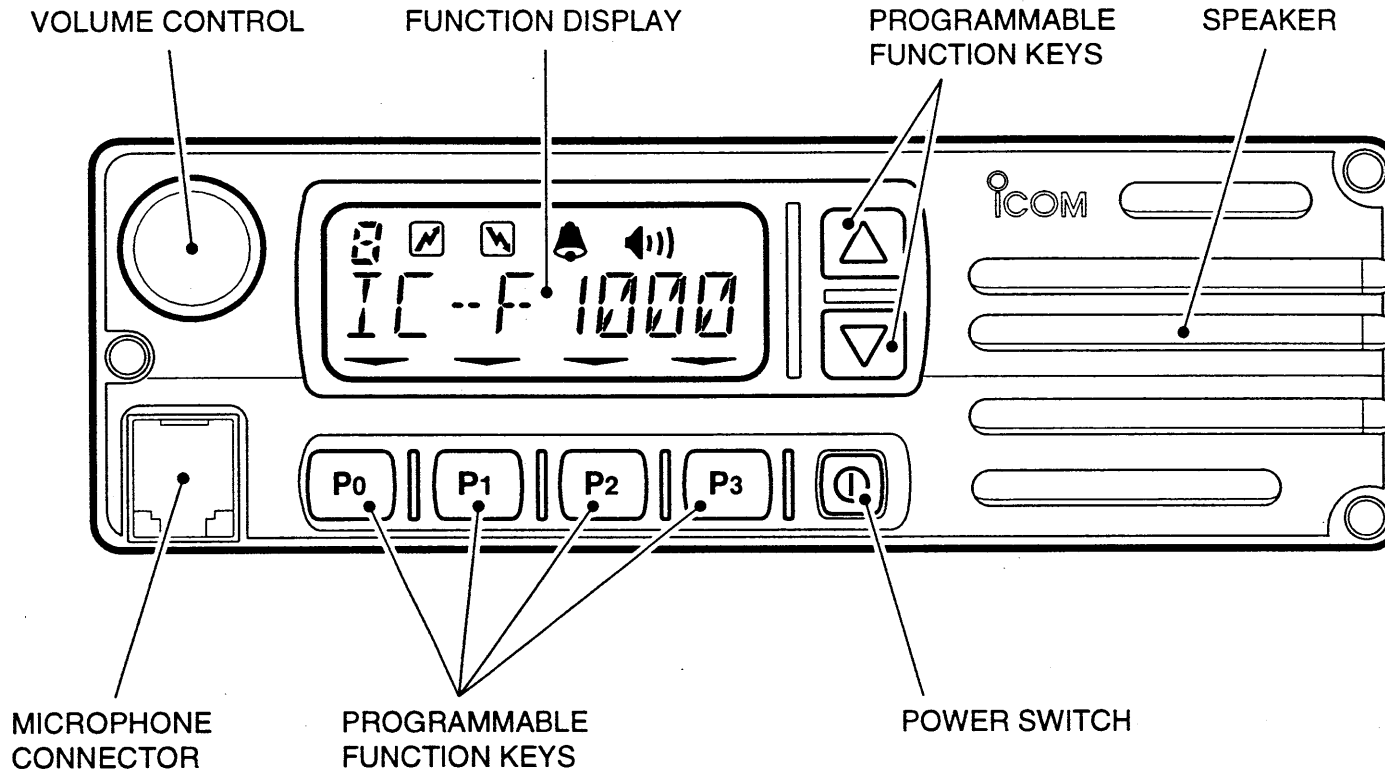
BE CAREFUL! The transceiver will become hot when operating continuously for long periods.

For U.S.A. only

CAUTION: Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

PANEL DESCRIPTION

■ Front panel



VOLUME CONTROL

Adjusts the audio output level.

- Minimum audio level (when setting control at maximum counterclockwise) is pre-programmed.

POWER SWITCH

Turns the power ON and OFF.

- The following functions are available at power ON as options:
 - Automatic scan start
 - Password prompt

MICROPHONE CONNECTOR

Connects the supplied microphone or optional DTMF microphone for SmarTrunk II™ operation here.

NEVER connect other microphones. The pin assignments may be different and the transceiver may be damaged.

MICROPHONE

The supplied microphone has a PTT switch and a hanger hook.

- The following functions are available when the microphone is hung on or released from the microphone hanger:
 - Automatic scan start when hung.
 - Automatic priority channel selection when released.
 - Turns OFF and ON the monitor function when hung or released respectively.

■ Programmable function keys

The following functions can be assigned to programmable function keys. Assigned function names can be affixed to the LCD using supplied stickers.

CHANNEL UP AND DOWN KEYS

- CH UP**
 - Select an operating channel
 - Select a bank after pushing the [BANK S] key.
- CH DN**
 - Select a DTMF channel after pushing the [DTMF] key.
 - Select a scan group after pushing and holding the [SCAN] key.

BANK UP AND DOWN KEYS

- BK UP** Select a bank (a group of 16 (or multiples of) channels).
- BK DN**
 - This function may be available for the optional 160 channel type only.
 - When the optional UT-105 is installed, push one or more times to select a channel bank for conventional channels or SmarTrunk II™ channels.

Count on us!



A-5441S-1US
Printed in Japan
Copyright © 1995 by Icom Inc.

Icom Inc.
6-9-16 Kamihigashi, Hirano-ku, Osaka 547 Japan
