

INSTRUCTION MANUAL

HF TRANSCEIVER



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.

FOREWORD

Thank you for purchasing this Icom product. The IC-F8101 HF TRANSCEIVER is designed and built with Icom's state of the art technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

We appreciate you making the IC-F8101 your radio of choice, and hope you agree with Icom's philosophy of "technology first." Many hours of research and development went into the design of your IC-F8101.

♦ FEATURES

- ALE (Automatic Link Establishment)/Selcall capability
- Digital Signal Processor (DSP) allows flexible filter selection
- Full-dot matrix LCD for a variety of information

FCC INFORMATION

FOR CLASS A UNINTENTIONAL RADIATORS:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

IMPORTANT

READ THIS INSTRUCTION MANUAL CAREFULLY before attempting to operate the transceiver.

SAVE THIS INSTRUCTION MANUAL. This manual contains important safety and operating instructions for the IC-F8101.

EXPLICIT DEFINITIONS

WORD	DEFINITION
▲ DANGER!	Personal death, serious injury or an explosion may occur.
△ WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	Recommended for optimum use. No risk of personal injury, fire or electric shock.

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All other products or brands are registered trademarks or trademarks of their respective holders.



Versions of the IC-F8101 which display the "N33" symbol on the serial number seal, comply with Standard Australia Specification No. AS/NZS 4770: 2000.

TABLE OF CONTENTS

	DREWORDi IPORTANTi
	KPLICIT DEFINITIONSi
	CC INFORMATIONi
	ABLE OF CONTENTSii
	AFETY TRAINING INFORMATION
	FORMATION EN MATIÈRE DE SÉCURITÉiv
	RECAUTIONSv
	PANEL DESCRIPTION 1–6
1	
	Controller (Front panel or HM-192)1
	Rear panel
	LCD screen
2	BASIC OPERATION7-10
	Power ON7
	Selecting the display mode7
	Selecting a channel8
	Setting audio volume8
	Squelch function8
	Scan function9
	Mode selection
	VFO operation 10
3	RECEIVE AND TRANSMIT
Ŭ	■ Basic voice transmit/receive
	 Functions for transmit
	 Functions for receive
4	SELCALL/ALE OPERATION
	Selcall/ALE
5	MENU SCREEN
	Manager Menu
	Main Menu
	CPU Reset65
6	CONNECTION AND INSTALLATION
	Supplied accessories
	Connections
	Ground connection70
	Power source
	Antenna71
	CFU-F8100 (Optional Cooling Fan)71
	RMK-6 (Optional Separation kit)72
	HM-192 (Optional Remote control microphone)
	Mounting75
	Mounting
	 Mounting
	 Mounting
7	 Mounting

SAFETY TRAINING INFORMATION



Your Icom radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only", meaning it must be used only during the course of employment

by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment.

- For compliance with FCC and IC RF Exposure Requirements, the transmitter antenna installation shall comply with the following two conditions:
 - 1. The transmitter antenna gain shall not exceed 0 dBi.
 - 2. The antenna is required to be located outside of a vehicle and kept at a distance of 80 centimeters or more between the transmitting antenna of this device and any persons during operation. For small vehicle as worst case, the antenna shall be located on the roof top at any place on the centre line along the vehicle in order to achieve 80 centimeters separation distance. In order to ensure this distance is met, the installation of the antenna must be mounted at least 80 centimeters away from the nearest edge of the vehicle in order to protect against exposure to bystanders.
 - 3. Transmit only when people outside the vehicle are at least the recommended minimum distance of 160 centimeters away from the properly installed antenna. This separation distance will ensure that there is sufficient distance from a properly installed externally-mounted antenna to satisfy the RF exposure requirements in the applicable RF exposure compliance standards.



To ensure that your exposure to RF electromagnetic energy is within the FCC and IC allowable limits for occupational use, always adhere to the following guidelines:

- **DO NOT** operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC and IC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.
- DO NOT transmit for more than 50% of total radio use time ("50% duty cycle"). Transmitting more than 50% of the time can cause FCC and IC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX" icon is displayed. You can cause the radio to transmit by pressing the "PTT" switch.

Electromagnetic Interference/Compatibility

During transmissions, your Icom radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn OFF the radio in areas where signs are posted to do so. **DO NOT** operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

INFORMATION EN MATIÈRE DE SÉCURITÉ



Votre radio Icom produit une énergie électromagnétique de radiofréquences (RF), en mode de transmission. Cette radio est conçue pour un «usage professionnel seulement» et

classée comme tel, ce qui signifie qu'elle doit être utilisée uniquement dans le cadre d'un travail par des personnes conscientes des dangers et des mesures visant à minimiser ces dangers. Elle N'EST PAS conçue pour une «utilisation grand public», dans un environnement non contrôlé.

- Afin de satisfaire aux exigences de la FCC et d'IC en matière d'exposition aux RF, il est nécessaire que l'antenne soit installée conformément aux trois conditions suivantes:
 - 1. Le gain de l'antenne du radio émetteur ne doit pas dépasser 0 dBi.
 - 2. Il faut que l'antenne émettrice de cet appareil soit placée à l'extérieur d'un véhicule et tenue éloignée d'au moins 80 centimètres de toute personne pendant le fonctionnement. Dans le pire des cas, pour un petit véhicule, l'antenne doit être placée sur le toit, n'importe où dans l'axe central du véhicule, afin de respecter une distance de 80 cm du bord le plus rapproché du véhicule et ainsi éviter que les personnes présentes soient exposées.
 - 3. Émettre uniquement lorsque les personnes à l'extérieur du véhicule se trouvent à au moins la distance minimale recommandée de 160 cm de l'antenne correctement installée. Cette distance de sécurité assurera que les personnes soient placées suffisamment loin d'une antenne correctement fixée à l'extérieur pour satisfaire aux exigences en matière d'exposition aux RF, en vertu des normes de conformité applicables.



Afin de vous assurer que votre exposition à une énergie électromagnétique de RF se situe dans les limites permises par la FCC et d'IC pour une utilisation grand public, veuillez en tout temps respecter les directives suivantes:

- NE PAS faire fonctionner la radio sans qu'une antenne appropriée y soit fixée, car ceci risque d'endommager la radio et causer une exposition supérieure aux limites établies par la FCC et d'IC. L'antenne appropriée est celle qui est fournie avec cette radio par le fabricant ou une antenne spécialement autorisée par le fabricant pour être utilisée avec cette radio.
- NE PAS émettre pendant plus de 50 % du temps total d'utilisation de l'appareil («50 % du facteur d'utilisation»). Émettre pendant plus de 50 % du temps total d'utilisation peut causer une exposition aux RF supérieure aux limites établies par la FCC et d'IC. La radio est en train d'émettre lorsque le témoin du mode de transmission s'affiche sur l'écran ACL. La radio émettra si vous appuyez sur le bouton du microphone.

Interférence électromagnétique et compatibilité

En mode de transmission, votre radio lcom produit de l'énergie de RF qui peut provoquer des interférences avec d'autres appareils ou systèmes. Pour éviter de telles interférences, mettez la radio hors tension dans les secteurs où une signalisation l'exige. **NE PAS** faire fonctionner l'émetteur dans des secteurs sensibles au rayonnement électromagnétique tels que les hôpitaux, les aéronefs et les sites de dynamitage.

PRECAUTIONS

△ **DANGER HIGH RF VOLTAGE! NEVER** attach an antenna or internal antenna connector during transmission. This may result in an electrical shock or burn.

 \triangle **WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume or discontinue use.

 \triangle **WARNING! NEVER** operate or touch the transceiver with wet hands. This may result in an electric shock or damage to the transceiver.

 \triangle **WARNING! NEVER** apply AC power to the [DC13.8V] socket on the transceiver rear panel. This could cause a fire or damage the transceiver.

 \triangle **WARNING! NEVER** apply more than 16 V DC to the [DC13.8V] socket on the transceiver rear panel, or use reverse polarity. This could cause a fire or damage the transceiver.

▲ **WARNING! NEVER** let metal, wire or other objects protrude into the transceiver or into connectors on the rear panel. This may result in an electric shock.

 \triangle **WARNING! ALWAYS** use the supplied Black and red cables with fuse holders. After connecting the fuse holders, **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.

△ **WARNING!** Immediately turn OFF the transceiver power and remove the power cable if it emits an abnormal odor, sound or smoke. Contact your lcom dealer or distributor for advice.

CAUTION: NEVER change the internal settings of the transceiver. This may reduce transceiver performance and/or damage to the transceiver.

In particular, incorrect settings for transmitter circuits, such as output power, idling current, and so on, might damage the expensive final devices.

The transceiver warranty does not cover any problems caused by unauthorized internal adjustment.

CAUTION: NEVER install the transceiver in a place without adequate ventilation. Heat dissipation may be reduced, and the transceiver may be damaged.

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

The basic operations, transmission and reception of the transceiver are guaranteed within the specified operating temperature range. However, the LCD display may not be operate correctly, or show an indication in the case of long hours of operation, or after being placed in extremely cold areas. **DO NOT** use harsh solvents such as benzine or alcohol when cleaning, as they will damage the transceiver surfaces.

DO NOT push the PTT switch when you don't actually desire to transmit.

DO NOT place the transceiver against walls or putting anything on top of the transceiver. This may overheat the transceiver.

Always place unit in a secure place to avoid inadvertent use by children.

BE CAREFUL! If you use a linear amplifier, set the transceiver's RF output power to less than the linear amplifier's maximum input level, otherwise, the linear amplifier will be damaged.

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

USE only the specified microphone. Other manufacturers' microphones have different pin assignments, and connection to the IC-F8101 may damage the transceiver or microphone.

During mobile operation, **NEVER** place the transceiver where air bag deployment may be obstructed.

During mobile operation, **DO NOT** place the transceiver where hot or cold air blows directly onto it.

During mobile operation, **DO NOT** operate the transceiver without running the vehicle's engine. When the transceiver's power is ON and your vehicle's engine is OFF, the vehicle's battery will soon become exhausted.

Make sure the transceiver power is OFF before starting the vehicle engine. This will avoid possible damage to the transceiver by ignition voltage spikes.

During maritime mobile operation, keep the transceiver and microphone as far away as possible from the magnetic navigation compass to prevent erroneous indications.

Turn OFF the transceiver's power and/or disconnect the DC power cable when you will not use the transceiver for long period of time.

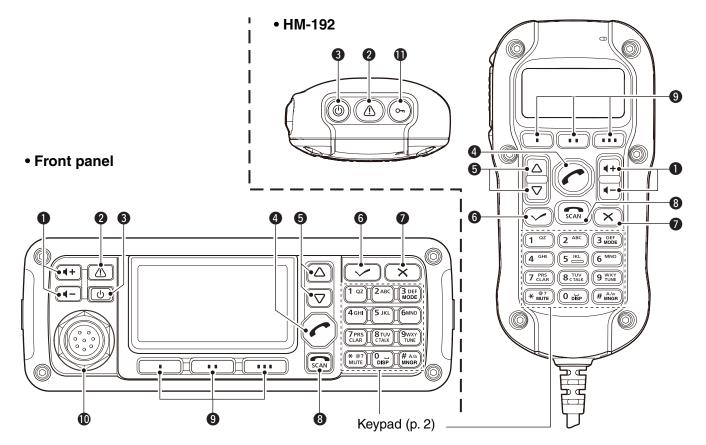
KEEP the transceiver away from the heavy rain, and Never immerse it in the water. The transceiver meets IP54* requirements for dust-protection and splash resistance.

However, once the transceiver has been dropped, dustprotection and splash resistance cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, and so on.

* Only when the supplied microphone is attached.

PANEL DESCRIPTION

Controller (Front panel or HM-192)



Common

2 EMERGENCY KEY [1]

NOTE: While in the VFO mode, the Emergency key cannot be used.

- → Push to enter the Emergency channel list.
- Push again to return to the normal operating screen.
- Hold down for 1 second to transmit Selcall and RFDS (Royal Flying Doctor Service) calls to the specified Selcall addresses in sequential order.
 NOTE: RFDS calls are available in only the Australian versions.

S POWER KEY [也]

- When the transceiver's power is OFF:
 Push to turn ON the transceiver power.
 First, turn ON the DC power source.
- When the transceiver's power is ON: Hold down for 2 seconds to turn OFF the power.

CALL KEY [

- Push to enter the Call menu.
- Push again to go to the next screen in the Call menu.

O UP/DOWN KEYS [△]/[▽]

Selects the operating channel, the items in the Menu mode, and so on.

③ENTER KEY [✔]

- Push to enter and exit the selected Menu in the Menu screen.
- Hold down for 1 second to enter the programming mode.

CLEAR KEY [X]

- ➡ Push to enter or exit the Main Menu screen.
- ➡ Push to return to the previous screen.

3 CALL END/SCAN [SCAN]

- ➡ Push to hang up or terminate a call.
- Push to start or stop a scan

9 FUNCTION KEYS [•]/[••]/[•••]

Push to select the function that is displayed above each key on the LCD display.

• The functions vary, depending on the preprogramming and selected menu.

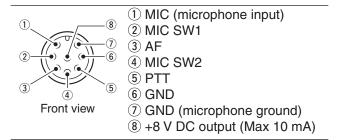
Controller (Front panel or HM-192) (Continued)

• Front panel

(MICROPHONE CONNECTOR [MIC]

Connects to only the microphone supplied with the transceiver.

NOTE: NEVER connect the HM-192 or any other microphone here. This could damage the transceiver and/or the microphone.



• HM-192

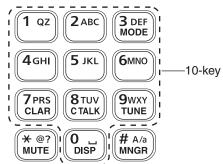
①LOCK KEY [တျ]

Hold down for 1 second to set the Key lock function to ALL, NUMERIC KEY or OFF.



♦ Keypad

➡ Inputs numbers, characters or letters.



Selectable characters

KEY	INPUT	КЕҮ	INPUT
	1 Q Z q z		8 T U V t u v
2 ABC	2 A B C a b c	9wxy TUNE	9 W X Y w x y
3 DEF MODE	3 D E F d e f		0 (space)
4сні	4 G H I g h i	(* @?)	, . ; ? : " ` ' / ! @ # \$ % ^ &
5 јкі	5 J K L j k l	MUTE	* () + = \ ~ < > { } []
б мно	6 M N O m n o	# A/a MNGR	Upper/Lower case letters/Numbers
7PRS CLAR	7 P R S p r s		

MODE KEY [MODE]

Push to select the operating mode.

3 DEF MODE **NOTE:** The selectable operating mode car be programmed in the "Mode" item of "Set mode." (Main Menu > Setmode > Mode) (pp. 56–60) NOTE: The selectable operating mode can be programmed in the "Mode" item of "Set-

CLARIFIER KEY [CLAR]

Push to open the Clarifier adjustment win-7 prs` dow. CLAR

- Push [\triangle] or [\bigtriangledown] to adjust the frequency shift.
- Push this key again to close the window.

CLEAR TALK KEY [C TALK]

8TUV CTALK

Push to turn the Clear Talk function ON or OFF.

• The "C" icon appears when the function is ON.

TUNER KEY [TUNE]

Push to open the Antenna tune window. 9wxy (p. 11) TUNE

- Push [/] to start auto tuning.
- Push this key again to close the window.

DISPLAY KEY [DISP]

Push to select the display information.

0 DISP • 'Frequencies,' 'Latitude and Longitude,' 'Direction and Elevation,' 'Antenna SWR and Power source voltage' and 'Date and Time' can be selected. 'Latitude and Longitude' and 'Direction and Elevation' require data from a GPS unit.

MUTE KEY [MUTE]

★ @?

MUTE

Push to select the squelch type. Call squelch, S-meter squelch (level 1 to 50), Voice squelch

- or squelch OFF are selectable.
- The "S" icon appears when the Call squelch function is ON.

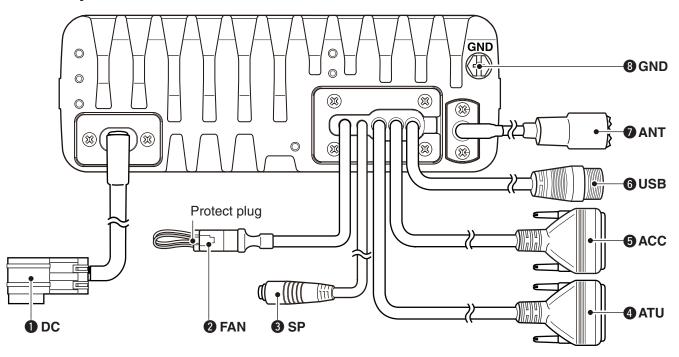
NOTE: The Call squelch function cannot be selected in the VFO mode.

- The "L" icon appears when the S-meter squelch function is ON.
- The "V" icon appears when the Voice squelch function is ON.

MANAGER KEY [MNGR]

Push to enter the Manager Menu screen. **#** A/a MNGR

Rear panel



DC POWER CONNECTOR [DC]

Accepts 13.8 V DC through a DC power cable.

FAN CONNECTOR [FAN]

Connects to the optional CFU-F8100 Cooling Fan. **NOTE:** Attach the protect plug when the optional Cooling Fan is not used.

SPEAKER JACK [SP]

Connects to an external speaker such as the supplied SP-35/L.

4 ACCESSORY CONNECTOR (9 PIN) [ATU]

Connects to the optional antenna tuner through the OPC-2309 ANTENNA TUNER CABLE.

NOTE: Attach the connector caps when the optional cable is not connected.

ACCESSORY CONNECTOR (15 PIN) [ACC]

Connects to a GPS unit or an external modem through the optional OPC-2308 GPS/EXTMOD CONNECTION CABLE.

When connecting a GPS unit, the transceiver sets your position and time data in NMEA0183 version 3.xx format.

NOTE: Attach the connector caps when the optional cable is not connected.

G USB CONNECTOR [USB]

Connects to a PC through an A-B type USB cable.

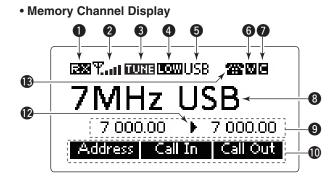
ANTENNA CONNECTOR

Connects to a 50 Ω HF band antenna.

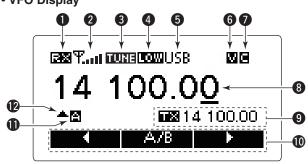
③ GROUND TERMINAL

IMPORTANT! Connects to a solid ground point.

LCD screen



VFO Display



1 RECEIVE/TRANSMIT ICON

- "RX" appears when signals are received or the squelch is open.
- ➡ "TX" appears when transmitting.

OS-METER/TX METERS

- ➡ Displays the receive signal strength.
- ➡ Displays the transmit output power.

3 TUNE ICON

Appears after the automatic antenna tuner matches the transceiver and antenna.

⊘NOTE:

Appears only the frequency is set to within 10 Hz of the tuned frequency.

4 OUTPUT POWER ICON

- ⇒ "HI" appears when high power is selected.
- ➡ "MID" appears when mid power is selected.
- → "LOW" appears when low power is selected.

OPERATING MODE INDICATOR

Displays the selected operating mode.

• "LSB," "USB," "CW," "AM," RTTY," "LSBD1," "USBD1," "LSBD2," "USBD2," "LSBD3" or "USBD3" appears, depending on the operating mode.

Selectable operating modes differ depending on the transceiver version and/or preprogramming.

6 MUTE ICON

- "S" appears when the Call squelch function is selected.
- "L" appears when the S-meter squelch is selected.
- → "V" appears when the Voice squelch is selected.

CLEAR TALK ICON

Appears when the Clear Talk function is ON.

③ MAIN READOUTS

<Memory Channel display> Displays the channel name. <VFO display> Displays the operating frequency.

OSUB READOUTS

<Memory Channel display>

Displays the selected information.

- 'Frequencies,' 'Latitude and Longitude,' 'Direction and Elevation,' 'Antenna SWR and Power source voltage' and 'Date and Time' can be displayed.
- 'Latitude and Longitude' and 'Direction and Elevation' require data from a GPS unit.
- When the frequencies are displayed, the receive frequency is displayed on the right and the transmit frequency is displayed on the left.
- ">" appears beside the receive or transmit frequencies, and indicates which one is active.
- "▲" or "▼" appears instead of "▶" to the right of the receive frequency, when the Clarifier function is ON, and it indicates the upper or lower shift.

NOTE: No transmit frequency is displayed when the selected channel is configured as "receive only."

<VFO display>

Shows the transmit or receive frequency when VFO split is ON.

() FUNCTION DISPLAY

Displays the function of the [•], [••] and [•••] function keys.

OVFO ICON

<VFO display>

- ➡ "A" appears when VFO A is selected.
- ➡ "B" appears when VFO B is selected.

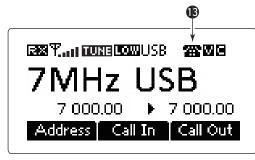
CLARIFIER ICON

<VFO display>

" \blacktriangle " or " \blacktriangledown " appears when the Clarifier function is ON, and indicates the upper or lower shift.

■ LCD screen (Continued)

Memory Channel Display



BCALL ICON

Displays the Call type icons for Selcall or ALE.

<Selcall>

- The " 🛓 " icon blinks or appears when a Selective call is transmitted or linked.
- The "mail icon blinks or appears when a Phone call is transmitted or linked.
- The " "icon blinks when a Message call is transmitted.
- \bullet The " $\,\stackrel{*}{+}\,$ " icon blinks when a Send Position is transmitted.
- The "+?" icon blinks when a Get Position call is transmitted, or while waiting for its acknowledgement.
- The " 🖵 " icon blinks when a Get Status call is transmitted, or while waiting for its acknowledgement.
- The " <u></u>" icon blinks or appears when an Emergency call is transmitted or linked.
- The " ?" icon blinks when a Channel Test call is transmitted or while waiting for its acknowledgement.
- The " + " icon blinks or appears when an RFDS Emergency call is transmitted or linked.

<ALE>

- The " 🛓 " icon blinks when an Individual call is transmitted or while waiting for its acknowledgement. The icon stays ON when the call is linked.
- The " ** " icon blinks when a NET call is transmitted or while waiting for its acknowledgement. The icon stays on when the call is linked.
- The " The " a con blinks when an AMD call is transmitted or while waiting for its acknowledgement. The icon stays ON when the call is linked.
- The " 🔊 " icon blinks when a Sounding is transmitted.

BASIC OPERATION

Power ON

1) Push [(1)] to turn ON the Power.

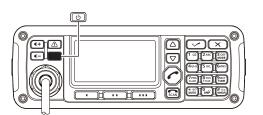
- If the "Built-in Test Display" item of "Setmode" is set to ON, 'Built in Test' appears. (Main Menu > Setmode > Config)
- If the "User" item of "Setmode" is programmed, "Login" appears.

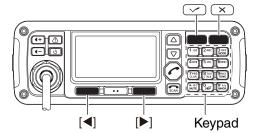
(Main Menu > Setmode > Password)



- 2 Push the keypad keys to enter either the User password or Administrator password, and then push [/].
 - Repeatedly push [A/a](#) to select the character group, ABC (upper case letters), abc (lower case letters) or 123 (numbers).
 - Push [X] to delete a character.
 - Push [◀](•) or [▶](••••) to move the cursor.

- NOTE:
 If you want to change any settings, you must be in the Administrator mode.
 You can log into the Administrator mode with the "Admin Login" item in the Manager Menu screen (p. 34).

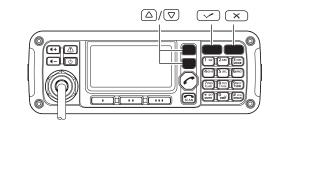


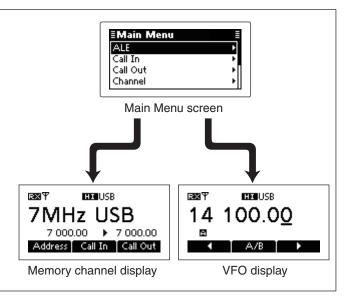


2

Selecting the display mode

- 1 Push [X] to enter the Main Menu screen.
- ② Push [\triangle] or [∇] to select "Channel" or "VFO," and then push [/].
 - If "Channel" is selected, the Memory Channel display appears.
 - If "VFO" is selected, the VFO display appears.

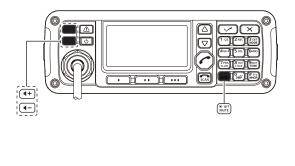


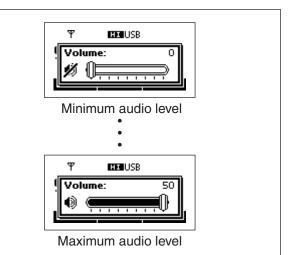


Selecting a channel 1) Select the Memory Channel Display. 1 Push [X] to enter the Main Menu screen. RXΨ HI USB **2** Push [\triangle] or [∇] to select "Channel," and then 7MHz USB push [/]. 7 000.00 🕒 7 000.00 Address | Call In | Call Out 2 Push [\triangle] or [∇] to select a desired memory channel. RXΨ HI USB 9MHz USB SCAN 9 000.00 🕨 9 000.00 (Δ) Address Call In Call Out \bigtriangledown

Setting audio volume

- ➡ Push [◀ +] or [◀ -] to adjust the audio level.
 - If the squelch is closed, push [MUTE](*) one or more times to open the squelch.
 - The display shows the volume level while adjusting.





Squelch function

The squelch function detects signals with voice components and mutes unwanted signals. This provides quiet stand-by.

When you need to receive weak signals, the squelch can be turned OFF.



- Push [MUTE](*) one or more times to select a squelch type.
 - Selectable types are Call SQL, S-meter SQL (level 0 to 50), Voice SQL and OFF.
 - The S-meter squelch level can be adjusted by the "Meter Squelch Level" item of "Setmode." (Main Menu > Setmode > Config)



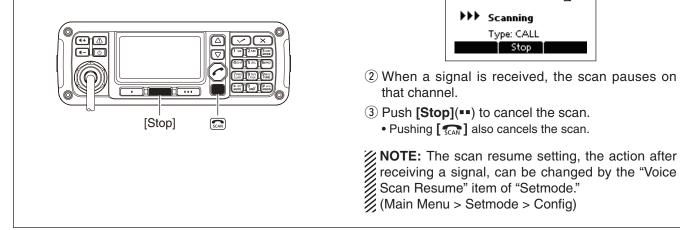
• The Mute icon, "**S**," "**I**" or "**V**," appears when the squelch function, Call SQL, S-meter SQL or Voice SQL is turned ON.

NOTE: The Call squelch function cannot be selected in the VFO mode.

s

Scan function

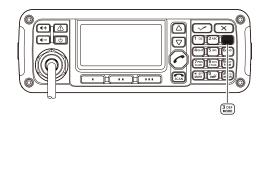
The scan function repeatedly scans programmed channels. This function is convenient to check for calls on multiple channels.



Mode selection

The following modes are selectable in the IC-F8101: LSB, USB, CW, AM, RTTY, LSBD1/2/3 and USBD1/2/3.

NOTE: Only the preprogrammed operating modes are selectable. The selectable operating mode can be changed in the "Mode" item of "Setmode." (Main Menu > Setmode)



1 Select the Display mode.

1) Push [scan] to start a scan.

• "Scanning" and the Scan type are displayed.

Scanning Type: CALL

Stop

Push [X] to enter the Main Menu screen. 2 Push [riangle] or [riangle] to select "Channel" or "VFO,"





2 Push [Mode](3) one or more times to select the desired mode.

The selected mode icon appears at the top of the display.

- On the opera When return Depergrammer select On the Memory Channel display, the selected operating mode can be used only temporarily. When the channel is changed, the transceiver
- returns to the preprogrammed operating mode.
- Depending on the transceiver version or prepro-
- gramming, some operating modes may not be
- selectable or usable except in receive.

♦ For your reference

Mode	TX/RX offset frequency	RX filter band width	Modulation input	
wode	[Hz]	[Hz]	MIC PTT ON	MODEM PTT ON
LSB, USB	1500 (Fixed)	100 to 3000 (100Hz step)		TC4, ACC, USB
LSBD1, USBD1	1500, 1650, 1800		MIC	TC4, ACC, USB
LSBD2, USBD2	1500 , 1650, 1800		MIC	TC4, ACC , USB
LSBD3, USBD3	1500, 1650 , 1800			TC4, ACC , USB

Default settings are shown in bold.

VFO operation

In the VFO mode, you can set a desired operating frequency, operating mode or split frequency function.

- The VFO mode operation can be disabled by the
- "VFO Mode" item of "Setmode."
- (Main Menu > Setmode > Config)
- While in the VFO mode, the Selcall, ALE features,
- NOTE: The V "VFO (Main While Scan used. Scan function or the Emergency key cannot be

• Entering the VFO mode

- 1 Push [X] to enter the Main Menu screen.
- 2 Push $[\triangle]$ or $[\nabla]$ to select "VFO," and then push **[∕**].



Frequency setting

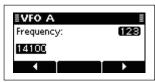
- 1) Push [A/B](••) to select VFO A or VFO B.
- ② Push [◀](•) or [▶](••••) to move the cursor to select the desired digit to be changed.
 - The cursor is displayed below the selected digit.



③ Push [\triangle] or [∇] to change the digit.

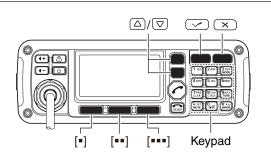
Direct frequency setting

- Push [A/B](••) to select VFO A or VFO B.
- 2 Hold down [/] for 1 second to enter the direct frequency input mode.
 - The previously entered frequency blinks.



- ③ Push the keypad to enter the desired frequency.
 - Push [*] to enter the decimal point.
 - Push [X] to delete the number.
 - Push [◀](•) or [▶](••••) to move the cursor.

④ Push [/] to save the frequency and exit.

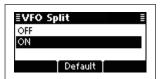


Turning ON the Split frequency function

1) Push [X] to enter the Main Menu screen.

2 Select the "VFO Split" item of "Setmode."

- **1** Push $[\triangle]$ or $[\nabla]$ to select the item, and then push [/] to open the screen. (Setmode > Config)
- **2** Push [\triangle] or [∇] to select "VFO Split," and then hold down [/] for 1 second.
- (3) Push [\triangle] or [∇] to turn ON the function.
- If desired, hold down [Default](--) for 1 second to return to the default setting.



- ④ Push [✓] to save the setting, and return to the previous screen.
- 5 Push [X] one or more times to exit the Main Menu screen.
- 6 Enter the VFO mode. (See details to the left.)
- Push [A/B](••) to select VFO A or VFO B, and separately set the receive and transmit frequencies.
 - The TX frequency appears below the RX frequency.
 - Push [A/B](••) changes the VFOs between transmit and receive.
 - Hold down [A/B](••) for 1 second to equalize the transmit frequency to the receive frequency.



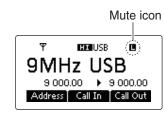
• To turn OFF the Split frequency function, set the "VFO Split" item of "Setmode." to "OFF." (Main Menu > Setmode > Config)

RECEIVE AND TRANSMIT

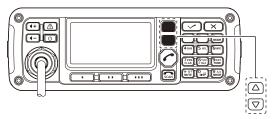
Basic voice transmit/receive

1) First, check the following.

- → The microphone and external speaker are connected.
- ► No "S," "L" or "V" mute icon appears. • If "S," "L" or "V" appears, push [MUTE](*) one or more times to turn OFF the mute.

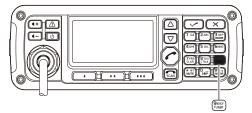


2 Push [\triangle] or [∇] to select the desired receive channel.



- . The S-meter shows the signal strength when a signal is received.
- ③ Push [◀+] or [◀-] to adjust the desired audio level when receiving a signal.
 - . If the bass or treble of the receive audio is too strong, push [CLAR](7) to set "Clarifier" to ON, and adjust to obtain clear audio. (See page 14 for the Clarifier function details.)
 - If the audio is distorted, select the suitable operating mode. (See page 9 for the Mode selection details.)

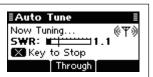
④ Push **[TUNE]**(9) to enter the antenna tune mode. • The "Auto Tune" screen appears.



NOTE: The antenna tune mode must be the "Tuner" item of "Setmode." (De (Main Menu > Setmode > Config) The antenna tune mode must be set to ON by the "Tuner" item of "Setmode." (Default: ON)

5 Push [/] to start auto tuning.

- The display shows the antenna SWR.
- If the antenna cannot be tuned after 20 seconds, the tuning circuit is automatically bypassed.
- After tuning is finished, the auto tune automatically stops transmitting.
- If necessary, push [X] to manually stop transmitting.
- Push [Through](••) to turn OFF the antenna tuner.

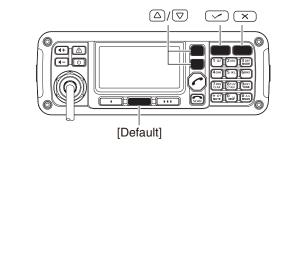


- 6 After tuning is finished, push [TUNE](9) again to return to the normal operating screen.
- To transmit on the channel, hold down [PTT] on the microphone, and speak at a normal voice level. • The RF meter shows the output power.
- 8 Release [PTT] to receive.

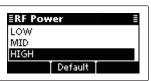
Functions for transmit

Transmit power selection

The transceiver has three output power levels, HIGH, MID and LOW. High power provides longer distance communications and low power reduces power consumption.



- ① Push [X] to enter the Main Menu screen.
- 2 Select the "RF Power" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen.
 (Setmode > Config)
 - 2 Push [△] or [▽] to select "RF power," and then hold down [✓] for 1 second.
- 3 Push [\bigtriangleup] or [\bigtriangledown] to select the desired option, LOW, MID or HIGH.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.

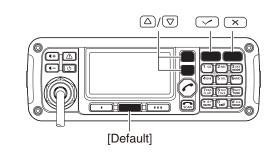


- ④ Push [✔] to save the setting, and return to the previous screen.
- (5) Push **[X**] one or more times to exit.

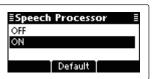
Setting Microphone gain The microphone gain must be properly adjusted so 1 Push [X] to enter the Main Menu screen. that your signal is not distorted when transmitted. 2 Select the "Mic Gain" item of "Setmode." **1** Push $[\triangle]$ or $[\nabla]$ to select the item, and then push [/] to open the screen. \triangle/∇ \checkmark (Setmode > Config) **2** Push [\triangle] or [∇] to select "Mic Gain," and then hold down [/] for 1 second. ③ Push [\triangle] or [∇] to adjust the desired setting level Н .. to between 0 and 10. • If desired, hold down [Default](••) for 1 second to re-[Default] turn to the default setting. ≣Config Mic Gain: 6 Default 4 Push [/] to save the setting, and return to the previous screen. 5 Push [X] one or more times to exit.

♦ Speech Processor

The IC-F8101 has a built-in, low distortion Speech Processor circuit. This circuit increases your average talk power in the SSB mode, and is especially useful when the receiving station is having difficulty hearing your audio.



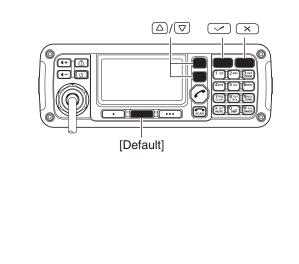
- ① Push [X] to enter the Main Menu screen.
- ② Select the "Speech Processor" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen. (Setmode > Config)
 - 2 Push [△] or [▽] to select "Speech Processor," and then hold down [✓] for 1 second.
- ③ Push [\triangle] or [∇] to turn ON the function.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.



- ④ Push [✓] to save the setting, and return to the previous screen.
 - If desired, adjust the Speech Processor Level. See the next topic for details.
- (5) Push [X] one or more times to exit.
- ⁽⁶⁾ Push **[MODE]**(3) one or more times to select the USB or LSB mode.
- ⑦ Hold down [PTT] on the microphone, and speak at a normal voice level.

♦ Speech Processor Level

The Speech Processor level must be properly adjusted so that your signal is not distorted when transmitted.



- (1) Push [X] to enter the Main Menu screen.
- ② Select the "Speech Processor Level" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen. (Setmode > Config)
 - 2 Push [△] or [▽] to select "Speech Processor Level" and then hold down [✓] for 1 second.
- ③ Push [\triangle] or [∇] to adjust the desired level to between 0 and 10.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.

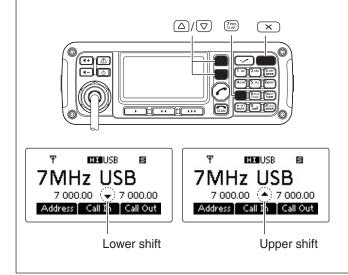


- ④ Push [✔] to save the setting, and return to the previous screen.
- 5 Push [X] one or more times to exit.

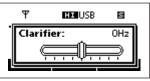
Functions for receive

Clarifier function

The Clarifier function compensates for off-frequency stations. The function shifts the receive frequency up to ± 200 Hz in 10 Hz steps, without shifting the transmit frequency.



① Push **[CLAR]**(7) to open the Clarifier adjustment window.



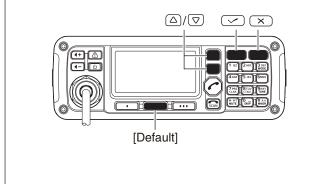
- ② Push [△] or [▽] to adjust the frequency shift.
 The transmit frequency is not shifted.
- ③ Push [CLAR](7) to save the setting, and return to the previous screen.
 - \bullet If desired, push [X] to cancel the setting and exit the window .

When cancelling the Clarifier function, set the frequency shift to 0 Hz in the Clarifier adjustment window.

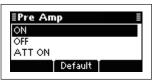
Preamp and Attenuator

The preamp amplifies received signals in the front end circuit to improve the S/N ratio and sensitivity. Turn ON this function to better receive weak signals.

The attenuator prevents strong undesired signals near the desired frequency or near your location, such as from a broadcast station, from causing distortion or spurious signals.



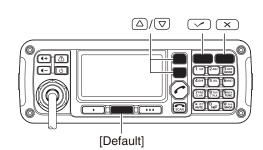
- 1 Push [X] to enter the Main Menu screen.
- ② Select the "Pre Amp" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen. (Setmode > Config)
 - Push [△] or [▽] to select "Pre Amp," and then hold down [✓] for 1 second.
- (3) Push [\triangle] or [\bigtriangledown] to select the desired option, ON, OFF or ATT ON.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.



- ④ Push [✓] to save the setting, and return to the previous screen.
- (5) Push [X] one or more times to exit.

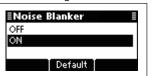
♦ Noise Blanker

The noise blanker reduces pulse-type noise such as that generated by automobile ignition systems.



When using the Noise Blanker function, received signals may be distorted if they are excessively strong, or when used on noise other than pulses. In this case, set the Noise Blanker threshold level to a shallow position, or turn OFF the function. (See next topic.)

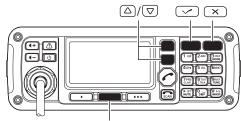
- ① Push [X] to enter the Main Menu screen.
- 2 Select the "Noise Blanker" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen. (Setmode > Config)
 - 2 Push [△] or [▽] to select "Noise Blanker," and then hold down [✓] for 1 second.
- ③ Push [\triangle] or [∇] to turn ON the function.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.



- ④ Push [/] to save the setting, and return to the previous screen.
- If desired, adjust the Noise Blanker Level or Noise Blanker Depth. See the next topic for details.
- (5) Push [X] one or more times to exit.

Noise Blanker adjustment

To deal with various types of noise, the threshold level and attenuation level can be set by the "Noise Blanker Level" and "Noise Blanker Depth" items.



[Default]

- ① Push [X] to enter the Main Menu screen.
- ② Select the "Noise Blanker Level" or "Noise Blanker Depth" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen. (Setmode > Config)
 - 2 Push [△] or [▽] to select "Noise Blanker Level" or "Noise Blanker Depth," and then hold down [✓] for 1 second.
- ③ Push [\triangle] or [∇] to adjust to the desired level.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.
 - O Noise Blanker Level: Between 0 and 15.

EConfig Noise Blanker Lev	el:
	10
Default	

O Noise Blanker Depth: Between 0 and 9.



- ④ Push [✓] to save the setting, and return to the previous screen.
- (5) Push [X] one or more times to exit.

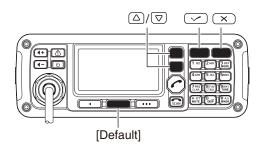
3

Functions for receive (Continued)

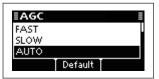
AGC function

The AGC (automatic gain control) controls receiver gain to produce a constant audio output level, even when the received signal strength varies by fading, and so on.

The transceiver has two AGC characteristics; AUTO and time constants FAST and SLOW.



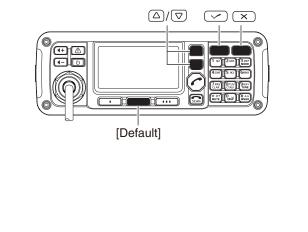
- 1 Push [X] to enter the Main Menu screen.
- 2 Select the "AGC" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen. (Setmode > Config)
 - 2 Push [△] or [▽] to select "AGC," and then hold down [✓] for 1 second.
- (3) Push [\triangle] or [∇] to select the desired option, FAST, SLOW or AUTO.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.



- When AUTO is selected, the AGC time constant varies, depending on the operating mode.
- ④ Push [✓] to save the setting, and return to the previous screen.
- (5) Push [X] one or more times to exit.

♦ AGC OFF function

When receiving weak signals with adjacent strong signals or noise, the AGC function may reduce the sensitivity. In this situation, the AGC function should be turned OFF.



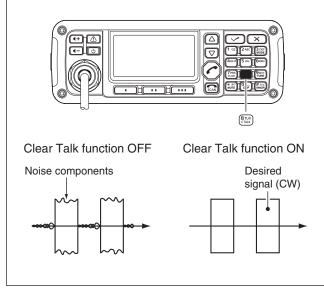
- (1) Push [X] to enter the Main Menu screen.
- 2 Select the "AGC" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [✓] to open the screen.
 (Setmode > Config)
 - 2 Push [△] or [▽] to select "AGC," and then hold down [✓] for 1 second.
- ③ Push [\triangle] or [\bigtriangledown] to turn OFF the function.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.



- ④ Push [✓] to save the setting, and return to the previous screen.
- 5 Push [X] one or more times to exit.

♦ Clear Talk function

The Clear Talk function uses the DSP circuit to enhance desired signals in the presence of noise.



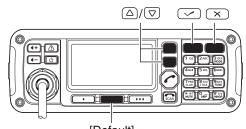
Push [C TALK](8) to turn ON the Clear Talk function.
 "©" appears when the Clear Talk function is ON.



- If desired, adjust the Clear Talk level. See the next topic for details.
- If desired, push [C TALK](8) again to turn OFF the function.

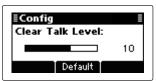
♦ Clear Talk Level

The Clear Talk Level must be adjusted for maximum readability. Setting the "Clear Talk Level" too high results in audio signal masking or distortion.



[Default]

- ① Push [X] to enter the Main Menu screen.
- 2 Select the "Clear Talk Level" item of "Setmode."
 - Push [△] or [▽] to select the item, and then push [𝒴] to open the screen.
 (Setmode > Config)
 - Push [△] or [▽] to select "Clear Talk Level" and then hold down [✓] for 1 second.
- ③Push [△] or [▽] to adjust the desired level to between 1 and 15.
 - If desired, hold down [Default](••) for 1 second to return to the default setting.



- ④ Push [✓] to save the setting, and return to the previous screen.
- 5 Push [X] one or more times to exit.

SELCALL/ALE OPERATION

Selcall or ALE

Selcall uses a 4 or 6-digit ID address and allows you to make individual or group calls. The ALE (automatic link establishment) is a system which automatically selects an available frequency and establishes a communication link. The IC-F8101 ALE system compiles with basic requirements of FED-STD-1045A.

♦ Available calls

Selective call

Selective call allows you to make individual or group calls using an individual ID (identification) assigned to each transceiver.

Phone call

Allows you to make a Phone call through a telephone interconnect service provider.

• Message call

Allows you to exchange text messages of up to 64 characters* with the intended ID station.

- Icom Selcall: 64 characters (upper case/Lower case letters)
- Open Selcall: 32 characters (Only upper case letter)

Send Position call

Allows you to send your own position information to the intended ID station.

• Get Position call

The Get Position call allows you to request the intended ID station to send its position information.

Get Status call (Only Icom Selcall)

Requests to send radio status information including power supply voltage, signal strength, output power, VSWR, and so on.

• Stun call (Only Open Selcall)

The Stun call disables the specified station from either transmitting and receiving.

• RFDS emergency call (Only Australian versions)

The RFDS (Royal Flying Doctor Service) emergency call uses a 2-Tone signal for an emergency call.

Emergency call

Allows you to send an emergency signal with your own position information.

- The Icom Selcall uses Icom original commands, and may not be compatible with other brands.
 Depending on the preprogramming, you can select the Open Selcall*.
 * The Open Selcall is compatible with other transceiver brands. Ask your dealer for details.

Channel Test call

The Channel Test call allows the user to determine the signal quality between their transceiver and a specific transceiver, before making individual or group calls.

ALE individual or net call

Automatically establishes a communication link by using the ALE table.

ALE sounding

Automatically sends a sounding signal at a selectable interval (0.5-11 hours) to check the propagation, and stores the data in a table. Manual soundings can also be sent.

ALE AMD (Automatic Message Display)

Automatically sends and receives text messages of up to 90 characters.

♦ Selective call

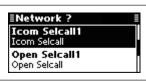
The Selcall function allows you to make individual or group calls. Each transceiver is assigned an individual ID (identification) and can be called using this ID.

• Preparation for a Selective call

Send a Channel Test call on several Selcall channels, and check the propagation on each one to select the channel with the best signal quality. (p. 26)

Sending a Selective call

- Hold down [] for 1 second to enter the Network selection screen.
- ② Push [△] or [▽] to select the desired Network, and then push [<].</p>
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



- ③ Push [\triangle] or [∇] to select the Call Type to "Selective."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



- ④ Push keypad to enter the Call ID, and then push [].
 - The previously entered Call ID is displayed.
 - Push [◄](•) or [▶](•••) to move the cursor.
 - Push [X] to delete the digit to the left of the cursor.
 - This Call ID is not stored in the Call ID list.
- (5) Push [\triangle] or [∇] to select the Profile, then push [\checkmark].

-	
	≣Profile ?
	Profile1
	9999 Profile2
	1111
	Profile2

- 6 Push [\triangle] or [∇] to select the Channel.
 - Only the channels that belong to the selected Network in step (2), are displayed.
 - If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.



- ⑦ Push [] to transmit the Selective call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

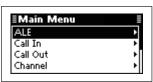
You can also make a Selective call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

• Receiving Selective calls

When your transceiver receives a Selective call with your individual ID, it automatically responds by transmitting. The received Selcall is stored in the Call In memory.

① Push [X] to enter the Main Menu screen.

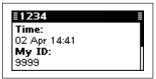
② Push [\triangle] or [∇] to select "Call In," and then push [\checkmark].



③ Push [\triangle] or [∇] to select the desired Call, and then push [\checkmark].



(4) Push [\triangle] or [∇] to select the information.



⑤ Push [✗] twice to return to the normal operating screen.

Phone call

Allows you to make Phone calls through a telephone interconnect service provider.

• Preparation for a Phone call

Send a Channel Test call on several Phone call channels, and check the propagation on each one to select the channel with the best signal quality. (p. 26)

Sending a Phone call

- ①Hold down [C] for 1 second to enter the Network selection screen.
- ② Push [△] or [▽] to select the desired Network, and then push [<].</p>
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



③ Push [\triangle] or [∇] to select the Call Type to "Phone."

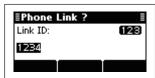
• "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



④ Push keypad to enter the Number, and then push [

- The previously entered Number is displayed.
- Push $[\blacktriangleleft](\bullet)$ or $[\blacktriangleright](\bullet\bullet\bullet)$ to move the cursor.
- \bullet Push $\ensuremath{\left[\ensuremath{\varkappa} \ensuremath{\right]}}$ to delete the digit to the left of the cursor.
- This Number is not stored in the Number list.
- 5 Push keypad to enter the Phone Link ID, and then push [
 - The previously entered Link ID is displayed.
 - Push [◀](•) or [▶](••••) to move the cursor.
 - \bullet Push $\ensuremath{\left[\ensuremath{\varkappa} \ensuremath{\right]}}$ to delete the digit to the left of the cursor.
 - This ID is not stored in the Phone Link ID list.



⁽⁶⁾ Push [\triangle] or [∇] to select the Profile, then push [\checkmark].

≣Profile ?	E
Profile1 9999	
Profile2 1111	

- ⑦ Push [\triangle] or [∇] to select the Channel.
 - Only the channels that belong to the selected Network in step ②, are displayed.
 - If desired, push [Tests](••) to transmit the Channel Test call in this step.

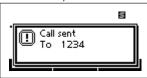


- 8 Push [] to transmit the Phone call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

You can also make a Phone call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

After a Phone call

- (1) When a Phone call is finished, push [scan] to transmit the disconnect call.
 - Until the Disconnect call is transmitted, the telephone interconnect service provider continues counting the time for toll charging.
 - If the "Auto Start Type" item of "Setmode" is set to "Scan" or "Termination," the Call automatically disconnects after the Auto Start Wait Time period has past with no operation. (Setmode > Call)



♦ Message call

The Message call allows you to exchange text messages of up to 64 characters,* with the intended ID station, and also leave a message at the station.

* Icom Selcall: 64 characters

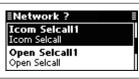
(upper case/Lower case letters) Open Selcall: 32 characters (Only upper case letter)

• Preparation for a Message call

Send a Channel Test call on several Selcall channels, and check the propagation on each one to select the channel with the best signal quality. (p. 26)

• Sending a Message call

- (1) Hold down [[] for 1 second to enter the Network selection screen.
- ② Push [△] or [▽] to select the desired Network, and then push [<].</p>
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



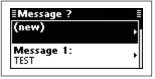
- ③ Push [\triangle] or [∇] to select the Call Type to "Message."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



- ④ Push keypad to enter the Call ID, and then push [].
 - The previously entered Call ID is displayed.
 - Push [4](•) or [▶](••••) to move the cursor.
 - Push [X] to delete the digit to the left of the cursor.
 - This Call ID is not stored in the Call ID list.

(5) Select the desired Message or edit New message.

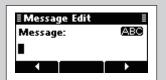


\bigcirc Message selection

Push [△] or [▽] select the Message, and then push [←].

O New Message input

● Hold down [✓] to enter the input mode.



- 2 Push keypad to enter the Message.
 - Push **[A/a]**(#) to toggle between the Upper, Lower case letter input modes and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [4](•) or [▶](••••) to move the cursor.
- 3 Push [✓] to save the Message.
 - This Message is not stored in the Message list.

⑥Push [△] or [▽] to select the Profile, then push [



O Push [\bigtriangleup] or [\bigtriangledown] to select the Channel.

- Only the channels that belong to the selected Network in step (2), are displayed.
- If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.



⑧ Push [] to transmit the Message call. The call is stored in the Call Out memory.

• While calling, push [PTT] to cancel the call.

You can also make a Message call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

Send Position call

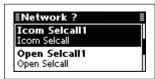
The Send Position call allows you to send your own position and time information to the intended ID station.

• Preparation for a Send Position call

Send a Channel Test call on several Selcall channels, and check the propagation on each one to select the channel with the best signal quality. (p. 26)

• Sending a Send Position call

- (1) Hold down [**/**] for 1 second to enter the Network selection screen.
- ② Push [△] or [▽] to select the desired Network, and then push [<].</p>
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



- ③ Push [\triangle] or [∇] to select the Call Type to "Send Position."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



④ Push keypad to enter the Call ID, and then push
[~].

- The previously entered Call ID is displayed.
- Push [◀](•) or [▶](••••) to move the cursor.

• Push [X] to delete the digit to the left of the cursor.

This Call ID is not stored in the Call ID list.

⑤ Push [△] or [▽] to select the Profile, then push [

≣Profile ?	E
Profile1 9999	
Profile2 1111	

(6) Push [\triangle] or [∇] to select the Channel.

- Only the channels that belong to the selected Network in step (2), are displayed.
- If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.



- ⑦Push [] to transmit the Send Position call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

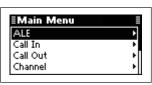
You can also make a Send Position call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

• Receiving Send Position calls

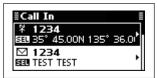
When your transceiver receives a Send Position call with your individual ID, it automatically responds by transmitting. The received Selcall is stored in the Call In memory.

① Push [X] to enter the Main Menu screen.

② Push [\triangle] or [∇] to select "Call In," and then push [\checkmark].



③ Push [\triangle] or [∇] to select the desired Call, and then push [\checkmark].



(4) Push [\triangle] or [∇] to select the information.



⑤ Push [X] twice to return to the normal operating screen.

♦ Get Position call

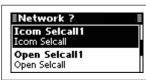
The Get Position call allows you to request an intended ID station to send its position information.

Preparation for a Get Position call

Send a Channel Test call on several Selcall channels, and check the propagation on each one to select the channel with the best signal quality. (p. 26)

Sending a Get Position call

- ①Hold down [1 second to enter the Network selection screen.
- (2) Push [\triangle] or [∇] to select the desired Network, and then push [\checkmark].
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



- 3 Push [\bigtriangleup] or [\bigtriangledown] to select the Call Type to "Get Position."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



- ④ Push keypad to enter the Call ID, and then push
 [~].
 - The previously entered Call ID is displayed.
 - Push [4](•) or [▶](••••) to move the cursor.
 - Push [X] to delete the digit to the left of the cursor.
 - This Call ID is not stored in the Call ID list.
- ⑤ Push [△] or [▽] to select the Profile, then push [

E

- (6) Push [\triangle] or [∇] to select the Channel.
 - \bullet Only the channels that belong to the selected Network in step (2), are displayed.
 - If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.

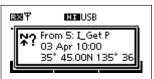


- ⑦ Push [] to transmit the Send Position call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

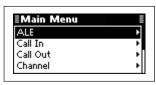
You can also make a Get Position call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

Receiving a Get Position call acknowledgement

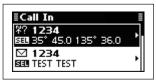
① After the call is transmitted, your called station sends position and time information as an acknowl-edgement.



- ② Push any key to return to the normal operating screen.
- ③ Push [X] to enter the Main Menu screen.
- ④Push [△] or [▽] to select "Call In," and then push [✓].



⑤ Push [△] or [▽] to select the desired Call, and then push [✓].



(6) Push [\triangle] or [∇] to select the information.



O Push [X] twice to return to the normal operating screen.

Receiving a Get Position call

When your transceiver receives a Get Position call that includes your individual ID, it automatically responds by transmitting.

♦ Get Status call (Only Icom Selcall)

The Get Status call requests sending radio status information including power supply voltage, signal strength, output power, VSWR, and so on.

• Preparation for a Get Status call

Send a Channel Test call on several Selcall channels, and check the propagation on each one to select the channel with the best signal quality. (p. 26)

Sending a Get Status call

- (1) Hold down [[] for 1 second to enter the Network selection screen.
- ② Push [△] or [▽] to select the desired Network, and then push [<].</p>
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



- 3 Push [\bigtriangleup] or [\bigtriangledown] to select the Call Type to "Get Status."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



④ Push keypad to enter the Call ID, and then push
[
[
].

- The previously entered Call ID is displayed.
- Push [◀](•) or [▶](••••) to move the cursor.

 \bullet Push $\ensuremath{\left[\textbf{X} \right]}$ to delete the digit to the left of the cursor.

- This Call ID is not stored in the Call ID list.
- (5) Push [\triangle] or [∇] to select the Profile, then push [\checkmark].

≣Profile ?	1
Profile1 9999	
Profile2 1111	
	1

6 Push [\triangle] or [∇] to select the Channel.

- Only the channels that belong to the selected Network in step (2), are displayed.
- If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.

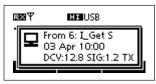


- ⑦ Push [] to transmit the Send Position call. The call is stored in the Call Out memory.
 - While calling, push **[PTT]** to cancel the call.

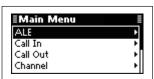
You can also make a Get Status call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

• Receiving a Get Status call acknowledgement

① After the call is transmitted, your called station sends status information as an acknowledgement.



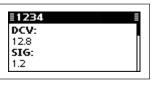
- ② Push any key to return to the normal operating screen.
- ③ Push [X] to enter the Main Menu screen.
- ④ Push [△] or [▽] to select "Call In," and then push [✓].



(5) Push [△] or [▽] to select the desired Call, and then push [✔].



- **(6)** Push [\triangle] or [∇] to select the information.
 - Status information includes the power supply voltage, Signal strength, Transmit power, VSWR, Time, Self ID, Network and Channel/Mode.



⑦Push [X] twice to return to the normal operating screen.

• Receiving a Get Status call

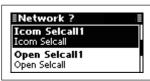
When your transceiver receives a Get Status call that includes your individual ID, it automatically responds by transmitting.

♦ Emergency call

The Emergency call allows you to broadcast an emergency signal with your own position information.

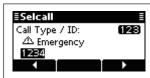
• Sending an Emergency call

- (1) Hold down [[] for 1 second to enter the Network selection screen.
- (2) Push [\triangle] or [∇] to select the desired Network, and then push [\checkmark].
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



- ③ Push [\triangle] or [∇] to select the Call Type to "Emergency."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



- ④ Push keypad to enter the Call ID, and then push [←].
 - The previously entered Call ID is displayed.
 - Push [◀](•) or [▶](•••) to move the cursor.
 - Push [X] to delete the digit to the left of the cursor.
 - This Call ID is not stored in the Call ID list.
- (5) Push [\triangle] or [∇] to select the Profile, then push [\checkmark].

≣Profile ?	Ξ
Profile1 9999	
Profile2 1111	

- (6) Push [\triangle] or [∇] to select the Channel.
 - \bullet Only the channels that belong to the selected Network in step (2), are displayed.
 - If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.



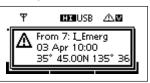
- Push [] to transmit the Emergency call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

You can also make an Emergency call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

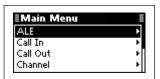
• Receiving Emergency calls

When your transceiver receives an Emergency call with your individual ID, it automatically responds by transmitting. The received Selcall is stored in the Call In memory.

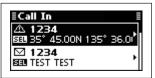
①After an Emergency call is received, transceiver displays the station's position and its time.



- ② Push any key to return to the normal operating screen.
- ③ Push [X] to enter the Main Menu screen.
- ④ Push [△] or [▽] to select "Call In," and then push [✔].



(5) Push [△] or [▽] to select the desired Call, and then push [✓].



(6) Push [\triangle] or [∇] to select the information.

≣1234	≣
GPS: 35° 45.00N 135° 36.00E Time: 03 Apr 10:00	

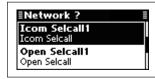
O Push **[X]** twice to return to the normal operating screen.

♦ Channel Test call

The Channel Test call allows the user determine the signal quality between your transceiver and a specific transceiver before an individual or group call. The Channel Test call is also used for checking the channel before sending any other calls.

Sending a Channel Test call

- (1) Hold down [[] for 1 second to enter the Network selection screen.
- (2) Push [\triangle] or [∇] to select the desired Network, and then push [\checkmark].
 - The Networks that belong to the Icom Selcall or Open Selcall systems must be selected.



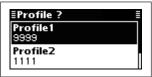
- 3 Push [\bigtriangleup] or [\bigtriangledown] to select the Call Type to "Channel Test."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



- ④ Push keypad to enter the Call ID, and then push
 [].
 - The previously entered Call ID is displayed.
 - Push [◀](•) or [▶](••••) to move the cursor.
 - Push [X] to delete the digit to the left of the cursor.
 - This Call ID is not stored in the Call ID list.

(5) Push [\triangle] or [∇] to select the Profile, then push [\checkmark].



- **(6)** Push [\triangle] or [∇] to select the Channel.
 - Only the channels that belong to the selected Network in step (2), are displayed.
 - If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.



Push [] to transmit the Channel Test call. The call is stored in the Call Out memory.
While calling, push [PTT] to cancel the call.

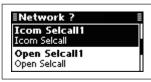
You can also make a Channel Test call when the Address screen is displayed. In this case, you can skip several steps, see page 29 for the Simple Selcall operation details.

♦ Stun call (Only Open Selcall)

The Stun call disables the specified station from either transmitting and receiving.

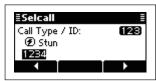
Sending a Stun call

- Hold down [] for 1 second to enter the Network selection screen.
- ② Push [△] or [▽] to select the desired Network, and then push [<].</p>
 - The Networks that belong to the Open Selcall system must be selected.

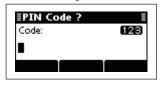


- 3 Push [\bigtriangleup] or [\bigtriangledown] to select the Call Type to "Stun."
 - "Selective," "Phone," "Message," "Send Position," "Get Position," "Get Status," "Emergency," "Channel Test" and "Stun" are selectable.

The Get Status call is selectable in the Icom Selcall, and the Stun call is selectable in the Open Selcall.



- ④ Push keypad to enter the Call ID, and then push
 [~].
 - The previously entered Call ID is displayed.
 - Push [◀](•) or [▶](••••) to move the cursor.
 - Push [X] to delete the digit to the left of the cursor.
 - This Call ID is not stored in the Call ID list.
- (5) Push keypad to enter the specified station's PIN Code, and then push [
 - Push [4](•) or [▶](••••) to move the cursor.
 - Push [X] to delete the digit to the left of the cursor.



ⓒ Push [\triangle] or [∇] to select the Profile, then push [\checkmark].



- O Push [\bigtriangleup] or [\bigtriangledown] to select the Channel.
 - Only the channels that belong to the selected Network in step (2), are displayed.
 - If desired, push [Tests](••) to transmit the Channel Test call in this step.



(8) Push [] to transmit the Stun call. The call is stored in the Call Out memory.

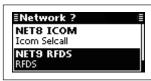
• While calling, push [PTT] to cancel the call.

♦ RFDS emergency call (only AUS versions)

The RFDS (Royal Flying Doctor Service) emergency call uses a 2-Tone signal for an emergency call.

• Sending an RFDS emergency call

- Hold down [for 1 second to enter the Network selection screen.
- (2) Push [\triangle] or [∇] to select the desired Network, and then push [\checkmark].
 - The Networks that belong to the RFDS systems must be selected.



- (3) Push [\triangle] or [∇] to select the Channel.
 - Only the channels that belong to the selected Network in step ②, are displayed.



- ④ Push [] to transmit the RFDS emergency call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

Simple Selcall operation

The Simple Selcall mode is convenient to transmit the often used Selcalls.

(1) Push [\checkmark] to enter the Simple Selcall mode.

• Depending on the Entry, the contents are skipped. Holding down [] enters the normal Selcall mode. See pages 19 to 28 for the normal Selcall operation details.

- O After setting is finished, push [\bigtriangleup] or [\bigtriangledown] to select the Channel.
 - Only the channels that belong to the selected Network, are displayed.
 - If desired, push **[Tests]**(••) to transmit the Channel Test call in this step.



③ Push [1] to transmit the Call.

• While calling, push [PTT] to cancel the call.

O Depending on the Entry, following settings are required.

(\checkmark : Setting is required. — : The contents is skipped.)

Screen (Entry)	Call system/ Network	Call type/ Call ID	Phone Link ^{*4}	Message *5	Self ID *3	Channel *6	Note	
Address Emergency Link	*1	*3		_		~	The skipped contents are used from the preprogrammed setting.	
Call In Call Out	*1	*3	_	_		~	The skipped contents are used from the preprogrammed setting.	
Phone Link	*1	V	r		_		The Call type is always set to Phone. The skipped contents are used from the preprogrammed setting.	
Other screen	*2	✓	~	~		~	The skipped contents are used from the previously transmitted Calls.	

*1 When the setting of the Entry is effective (Call is possible), the content is skipped.

*2 Priority Network is used.

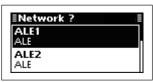
- *³ When the preprogrammed ID or previously used ID exists in the selected entry, the Call automatically selects the ID and skips the contents.
- *4 Only Phone call.
- *5 Only Message call.
- *6 Only the channels that belong to the Network, are displayed.

♦ ALE call

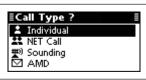
Automatically establish a communication link by using the ALE table.

Sending an Individual call

- ①Hold down [1 second to enter the Network selection screen.
- (2) Push [\triangle] or [∇] to select the desired Network, and then push [\checkmark].
 - The Networks that belong to the ALE system must be selected.

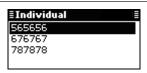


- 3 Push []] or []] to select the Call Type to "Individual."
 - "Individual," "NET Call," "Sounding" and "AMD" are selectable.



- ④ Push [△] or [▽] to select the Individual ID, and then push [

].
 - Only the ID that belong to the selected Network in step (2), are displayed.



- (5) Push [\triangle] or [∇] to select the Self ID, then push [\checkmark].
 - Only the ID that belong to the selected Network in step (2), are displayed.

≣Self ID ?	Ξ
121212	
232323	
343434	

- (6) Push [\triangle] or [∇] to select the Channel.
 - Only the channels that belong to the selected Network in step (2), are displayed.
 - If <Auto> is selected, the transceiver sequentially transmits channels that belong to the Network.



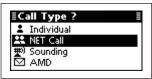
- Push [] to transmit the Individual call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

After an ALE call

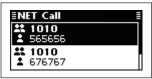
- ➡ After an ALE call is finished, push [scan] to transmit the disconnect call.
 - If the "Auto Start Type" item of "Setmode" is set to "Scan" or "Termination," the Call automatically disconnects after the Auto Start Wait Time period has past with no operation. (Setmode > Call)

• Sending a Net call

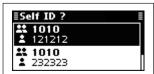
- (1) Hold down [**/**] for 1 second to enter the Network selection screen.
- ②Push [△] or [▽] to select the desired Network, and then push [
 - The Networks that belong to the ALE system must be selected.
- ③ Push [\triangle] or [∇] to select the Call Type to "NET Call."
 - "Individual," "NET Call," "Sounding" and "AMD" are selectable.



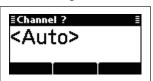
- ④ Push [\triangle] or [∇] to select the NET ID, and then push [\checkmark].
 - Only the ID that belong to the selected Network in step (2), are displayed.



- (5) Push [\triangle] or [∇] to select the Self ID, then push [\checkmark].
 - Only the ID that belong to the selected Network in step (2), are displayed.



- **(6)** Push [\triangle] or [∇] to select the Channel.
 - Only the channels that belong to the selected Network in step (2), are displayed.
 - If <Auto> is selected, the transceiver sequentially transmits channels that belong to the Network.



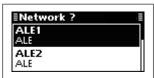
- ⑦Push [] to transmit the NET Call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

♦ ALE Sounding

Automatically sends a sounding signal at certain intervals (0.5–11 hours) to check the propagation, and then stores the data in a table. Manual soundings can also be made.

• Manual sounding

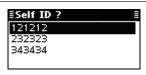
- Hold down [] for 1 second to enter the Network selection screen.
- ② Push [△] or [▽] to select the desired Network, and then push [
 - The Networks that belong to the ALE system must be selected.



- ③ Push [\triangle] or [∇] to select the Call Type to "Sound-ing."
 - "Individual," "NET Call," "Sounding" and "AMD" are selectable.

≣Call Type ?	
Individual Individual Individual	
₩) Sounding ☑ AMD	

- ④ Push [\triangle] or [∇] to select the Self ID, then push [\checkmark].
 - \bullet Only the ID that belong to the selected Network in step 2, are displayed.



- (5) Push [\triangle] or [∇] to select the Channel.
 - Only the channels that belong to the selected Network in step (2), are displayed.



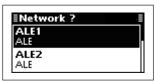
④ Push [] to transmit the Sounding call.
 • While calling, push [PTT] to cancel the call.

♦ ALE AMD call

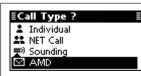
The ALE AMD (Automatic Message Display) sends and receives test messages of up to 90 characters.

• Sending an AMD call

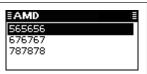
- (1) Hold down [[] for 1 second to enter the Network selection screen.
- (2) Push [\triangle] or [∇] to select the desired Network, and then push [\checkmark].
 - The Networks that belong to the ALE system must be selected.



- (3) Push [\triangle] or [∇] to select the Call Type to "AMD."
 - "Individual," "NET Call," "Sounding" and "AMD" are selectable.



- ④ Push [△] or [▽] to select the Individual ID, and then push [<].
 - Only the ID that belong to the selected Network in step ②, are displayed.



- (5) Push [\triangle] or [∇] to select the Self ID, then push [\checkmark].
 - Only the ID that belong to the selected Network in step ②, are displayed.

≣Self ID ? ≣	
121212	
232323	
343434	

(5) Select the desired Message or edit New message.



O Message selection

Push [△] or [▽] select the Message, and then push [

O New Message input

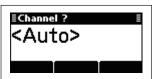
● Hold down [✓] to enter the input mode.

≣Message Edit	E
Message:	ABC

- Push keypad to enter the Message.
 Push [A/a](#) to toggle between the Upper case
 - letter and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
- Push [◀](•) or [▶](••••) to move the cursor.
 Push [✔] to save the Message.
 - This Message is not stored in the Message list.

6 Push $[\triangle]$ or $[\nabla]$ to select the Channel.

- Only the channels that belong to the selected Network in step (2), are displayed.
- If <Auto> is selected, the transceiver sequentially transmits channels that belong to the Network.



- ⑦ Push [] to transmit the Individual call. The call is stored in the Call Out memory.
 - While calling, push [PTT] to cancel the call.

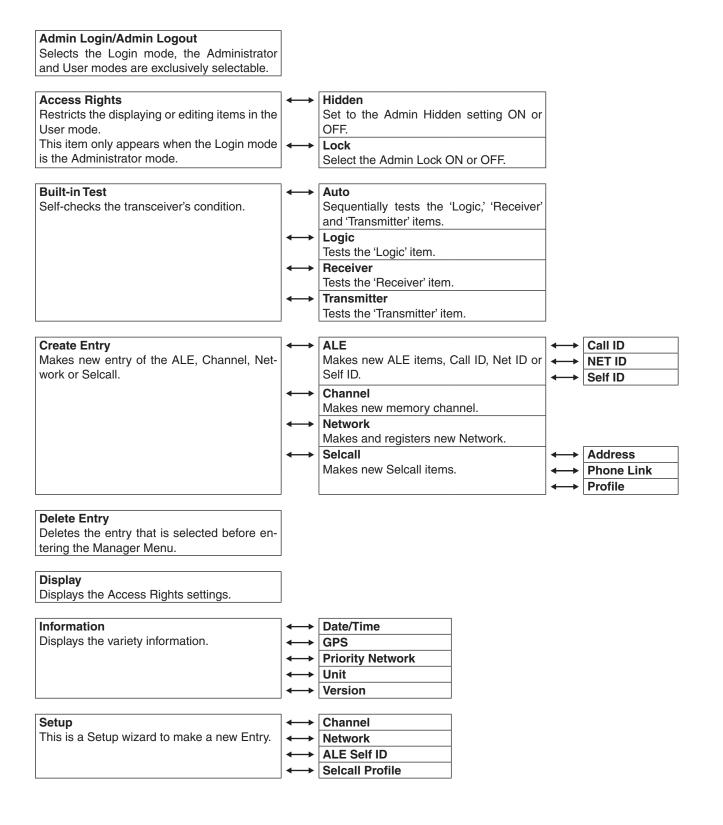
After an ALE call

- ➡ After an ALE call is finished, push [scan] to transmit the disconnect call.
 - If the "Auto Start Type" item of "Setmode" is set to "Scan" or "Termination," the Call automatically disconnects after the Auto Start Wait Time period has past with no operation. (Setmode > Call)

MENU SCREEN

Manager Menu

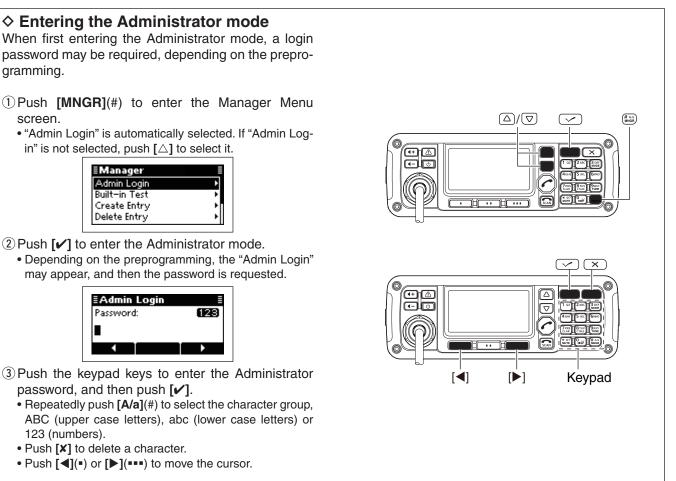
The Manager Menu is used for logging into the Administrator mode, setting the Access rights, programming memory channel, Selcall address and so on.



gramming.

screen.

Manager Menu (Continued)

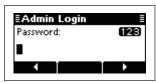


Create Entry Delete Entry

in" is not selected, push [\triangle] to select it.

≣Manager Admin Login Built–in Test

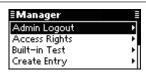
- 2 Push [/] to enter the Administrator mode.
 - Depending on the preprogramming, the "Admin Login" may appear, and then the password is requested.



- ③ Push the keypad keys to enter the Administrator password, and then push $[\checkmark]$.
 - Repeatedly push [A/a](#) to select the character group, ABC (upper case letters), abc (lower case letters) or 123 (numbers).
 - Push [X] to delete a character.
 - Push [◀](•) or [▶](••••) to move the cursor.

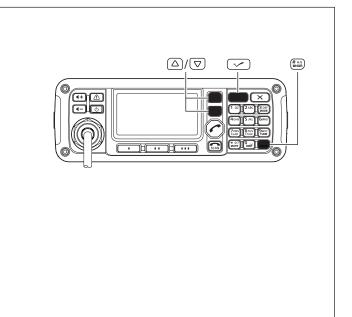
Return to the User mode

- ① Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected. If "Admin Logout" is not selected, push [\triangle] to select it.



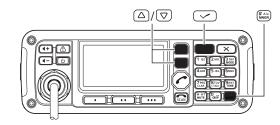
- 2 Push [/] to enter the User mode.
 - "Log out of Administrator" is displayed, and then the transceiver returns to the User mode.





♦ Setting the Access Rights

You can restrict the editing or displaying of a memory channel, Selcall address or any other settings in the User mode.



- ① Select a memory channel, Selcall address or other setting.
- ② Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected.

≣Manager	
Admin Logout	Þ
Access Rights	۰,
Built—in Test	•∏
Create Entry	•

- ③ Push [\triangle] or [∇] to select "Access Rights," and then push [\checkmark].
- ④ Push [△] or [▽] to select the item, and then hold down [✓] for 1 second.



- (5) Push [\triangle] or [∇] to select "ON," and then push [\checkmark].
 - Hidden: Undisplayed in the Use mode.
 - Lock: Locked and editing is restricted in the User mode.
 - The setting is effective after the transceiver returns to the User mode.

♦ Setting the Access Rights View

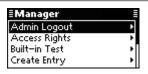
You can confirm the restriction of the memory channel, Selcall address or any other settings.



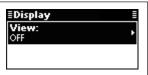
ON. This setting cannot be changed in either the

This setting cannot be changed in either the Administrator or User mode.

- ① Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected.



- ② Push [\triangle] or [∇] to select "Display," and then push [\checkmark].
- ③ Hold down [✔] for 1 second.

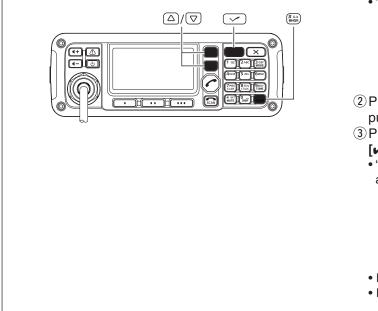


- ④ Push [\triangle] or [∇] to select "ON," and then push [\checkmark].
- (5) Select the desired memory channel, Selcall address or setting that you want to check in the "Access Rights" setting.

Manager Menu (Continued)

Built-in Test

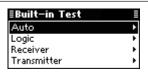
You can check the transceiver's condition by using the "Built-in Test" item.



- ① Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected.



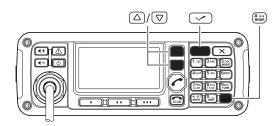
- ② Push [△] or [∇] to select "Built-in Test," and then push [\checkmark].
- ③Push [△] or [▽] to select the item, and then push [✓] to start testing.
 - "Auto," "Logic," "Receiver" and "Transmitter" are selectable.



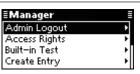
- If any problems are found, "Test failed" appears.
- If no problems are found, "Test passed" appears.

♦ Information

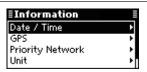
You can display a variety of information by using the "Information" item.



- ① Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected.



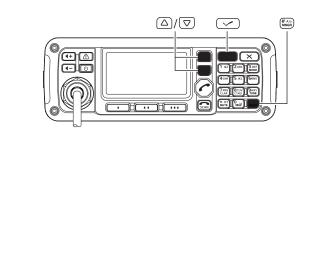
- ② Push [△] or [∇] to select "Information," and then push [\checkmark].
- ③ Push [△] or [▽] to select the item, and then push
 [✓] to display the information.
 - "Date/Time," "GPS," "Priority Network," "Unit" and "Version" are selectable.



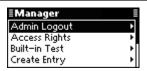
• "GPS" requires data from an external GPS unit.

♦ Create Entry

You can create new entries that are ALE, Channel, Network or Selcall items.



- 1) Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected.



- ②Push [△] or [▽] to select "Create Entry," and then push [✓].
- ③Create the desired entry as follows.
 - "ALE," "Channel," "Network" or "Selcall" can be selected.

≣Create Entry	
ALE	•
Channel	+
Network	•
Selcall	•

• ALE

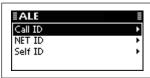
A Call ID, NET ID or Self ID can be created.

Making a Call ID or Self ID

Push [△] or [▽] to select "ALE," and then push
 [✓].

≣Create Entry	
Channel	į.
Network	
Selcal	
Seicali	

② Push [△] or [▽] to select a Call ID or Self ID, and then push [✓] to enter the input mode.



- ③ Push Keypad to enter the desired ID, and then push [✓].
 - Up to 15 characters can be entered.
 - Usable characters are A to Z, 0 to 9, ? and @.
 - Push [A/a](#) to toggle between the Alphabet (Upper case letter) input mode and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [◀](•) or [▶](••••) to move the cursor.



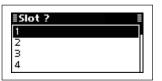
- ④ If the entered ID belongs to the specified NET ID, push [\triangle] or [∇] to select the ID, and then push [\checkmark].
 - If the entered ID does not belong to any network, select (blank) and push [✓].

≣NET ID ?	
(blank)	
123	
147	Π
258	

- (5) If the entered ID uses with the specified Network group, push [△] or [▽] to select the Network, and then push [✓].
 - If the entered ID does not use with any network group, select (blank) and push [✓].

ENetwork ?	Ξ
(blank)	
111 (1 Channel)	

- (6) If any NET ID is selected in step (4), select Slot number.
 - Selectable number are 1 to 20.

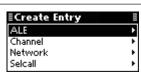


O Push $\ensuremath{\left[\ensuremath{\mathscr{V}} \ensuremath{\right]}}$ to save the ID and exit.

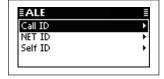
- Manager Menu
- Create Entry (Continued)

• ALE Making a NET ID

(1) Push [\triangle] or [∇] to select "ALE," and then push [\checkmark].



② Push [△] or [▽] to select a NET ID, and then push
 [✓] to enter the input mode.



- ③ Push Keypad to enter the desired ID, and then push [✓].
 - Up to 15 characters can be entered.
 - Usable characters are A to Z, 0 to 9, ? and @.
 - Push [A/a](#) to toggle between the Alphabet (Upper case letter) input mode and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [◀](•) or [▶](••••) to move the cursor.

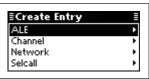


④ Push [✔] to save the ID and exit.

Channel

A new memory channel can be created.

Push [△] or [▽] to select "Channel," and then push
 [✓] to enter the input mode.



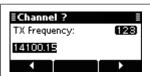
- ② Push Keypad to enter the Channel name, and then push [/].
 - Up to 20 characters can be entered.
 - See page 2 for the usable characters details.
 - Push [A/a](#) to toggle between the Upper, Lower case letter input modes and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [◀](•) or [▶](••••) to move the cursor.



- ③ Push Keypad to enter the receive frequency, and then push [✔].
 - Push [*] to enter the decimal point.
 - Push [X] to delete the number.
 - Push [◄](■) or [▶](■■) to move the cursor.



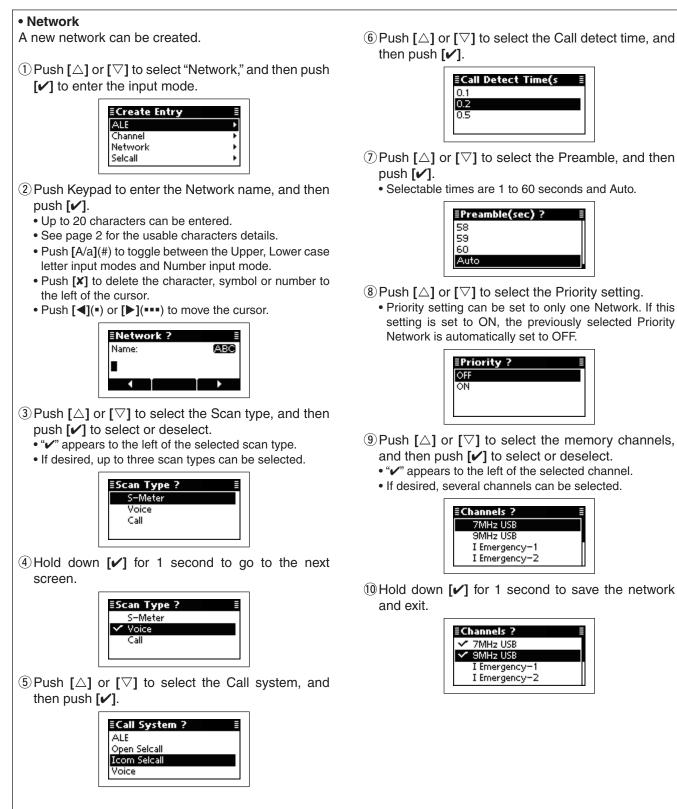
- ④ Push Keypad to enter the transmit frequency, and then push [✓].
 - Push [*] to enter the decimal point.
 - Push [X] to delete the number.
 - Push [◀](•) or [▶](•••) to move the cursor.

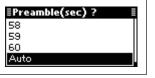


(5) Push [\triangle] or [∇] to select the operating mode.

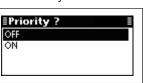


6 Push [/] to save the channel and exit.

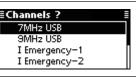




(8) Push [\triangle] or [∇] to select the Priority setting. • Priority setting can be set to only one Network. If this setting is set to ON, the previously selected Priority



- (9) Push [\triangle] or [∇] to select the memory channels, and then push [/] to select or deselect.
 - "
 "
 appears to the left of the selected channel.
 - If desired, several channels can be selected.



⁽¹⁾Hold down [✓] for 1 second to save the network

≣Channels ?	
✓ 7MHz USB	
🗸 9MHz USB	
I Emergency-1	
I Emergency-2	

Manager Menu

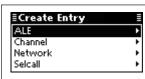
♦ Create Entry (Continued)

Selcall

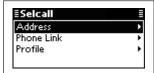
A new Selcall entry, Address, Phone Link or Profile, can be created.

Making an Address

Push [△] or [▽] to select "Selcall," and then push
 [✔].

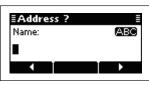


② Push [△] or [▽] to select "Address," and then push
 [✔] to enter the input mode.



③ Push Keypad to enter the Address name, and then push [✓].

- Up to 20 characters can be entered.
- See page 2 for the usable characters details.
- Push [A/a](#) to toggle between the Upper, Lower case letter input modes and Number input mode.
- Push [X] to delete the character, symbol or number to the left of the cursor.
- Push [4](•) or [▶](••••) to move the cursor.



④ Push [\triangle] or [∇] to select the Call type.

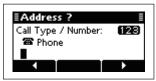
Then push keypad to enter the ID or number, and push $[\checkmark]$.

- Push **[X]** to delete the character, symbol or number to the left of the cursor.
- Push [4](•) or [▶](•••) to move the cursor.
- <Call type is other than Phone>
- Up to 6 digits can be entered.



<Call type is Phone>

• Up to 16 digits can be entered.

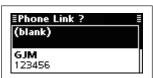


(5) Push [\triangle] or [\bigtriangledown] to select a network group or Phone Link.

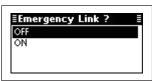
<Call type is other than Phone>



<Call type is Phone>



6 Push [\bigtriangleup] or [\bigtriangledown] to select the Emergency Link ON or OFF.

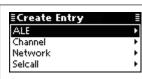


O Push [\checkmark] to save the channel and exit.

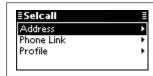
Selcall

Making a Phone Link

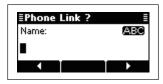
Push [△] or [▽] to select "Selcall," and then push
 [✔].



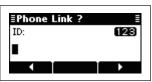
② Push [△] or [▽] to select "Phone Link," and then push [✓] to enter the input mode.



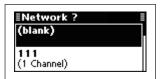
- ③ Push Keypad to enter the Phone Link name, and then push [✓].
 - Up to 20 characters can be entered.
 - See page 2 for the usable characters details.
 - Push [A/a](#) to toggle between the Upper, Lower case letter input modes and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [◄](•) or [▶](••••) to move the cursor.



- ④ Push keypad to enter the ID, and then push [/].
 Up to 6 digits can be entered.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [◀](•) or [▶](•••) to move the cursor.



(5) Push [\triangle] or [∇] to select a network group, and then push [\checkmark].



⑥ Push [△] or [▽] to select the memory channels.
Only the memory channels that belong to the selected network group in step ⑤, are selectable.



Push [/] to save the Phone Link and exit.

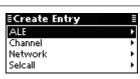
Manager Menu

♦ Create Entry (Continued)

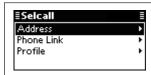
Selcall

Making a Profile

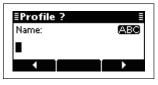
(1) Push [\triangle] or [∇] to select "Selcall," and then push [\checkmark].



② Push [△] or [▽] to select "Profile," and then push
 [✔] to enter the input mode.

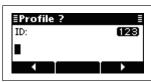


- ③ Push Keypad to enter the Profile name, and then push [✓].
 - Up to 20 characters can be entered.
 - See page 2 for the usable characters details.
 - Push [A/a](#) to toggle between the Upper, Lower case letter input modes and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [◄](•) or [▶](•••) to move the cursor.

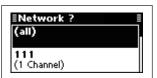


(4) Push keypad to enter the ID, and then push [\checkmark].

- Up to 6 digits can be entered.
 Push [X] to delete the character, symbol or number to the left of the cursor.
- Push [◀](•) or [▶](••••) to move the cursor.



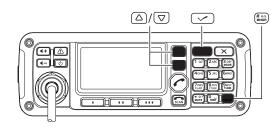
(5) Push [\triangle] or [∇] to select a network group.



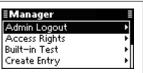
6 Push [/] to save the Profile and exit.

♦ Delete Entry

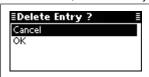
Any no-longer-used entries, such as memory channels or Selcall addresses can be cleared.



- ① Select a memory channel, Selcall address or some other setting that you want to clear.
- ② Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected.



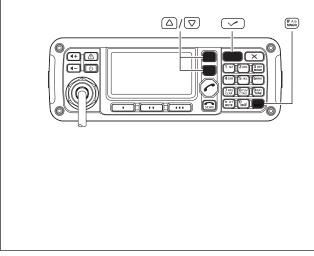
- ③ Push [\triangle] or [∇] to select "Delete Entry," and then push [\checkmark].
 - The confirmation screen, "Delete Entry?" appears.



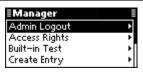
(4) Push [\bigtriangledown] to select "OK," and then push [\checkmark].

♦ Setup

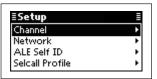
You can make a new entries that are Channel, Network, ALE Self ID or Selcall Profile using the Setup Wizard.



- 1) Push [MNGR](#) to enter the Manager Menu screen.
 - "Admin Logout" is automatically selected.



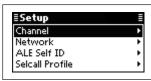
- ② Push [△] or [∇] to select "Setup," and then push [\checkmark].
- ③ Create the desired entry as follows.
 - "Channel," "Network," "ALE Self ID," or "Selcall Profile" can be selected.



Channel

A new memory channel can be created.

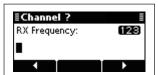
 Push [△] or [▽] to select "Channel," and then hold down [✓] for 1 second to enter the input mode.



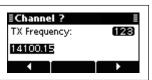
- ② Push Keypad to enter the Channel name, and then push [
 - Up to 20 characters can be entered.
 - See page 2 for the usable characters details.
 - Push [A/a](#) to toggle between the Upper, Lower case letter input modes and Number input mode.
 - Push [X] to delete the character, symbol or number to the left of the cursor.
 - Push [◀](•) or [▶](••••) to move the cursor.



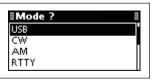
- ③ Push Keypad to enter the receive frequency, and then push [✓].
 - Push [*] to enter the decimal point.
 - Push [X] to delete the number.
 - Push [◀](•) or [▶](•••) to move the cursor.



- ④ Push Keypad to enter the transmit frequency, and then push [✓].
 - Push [*] to enter the decimal point.
 - Push [X] to delete the number.
 - Push [4](•) or [▶](••••) to move the cursor.

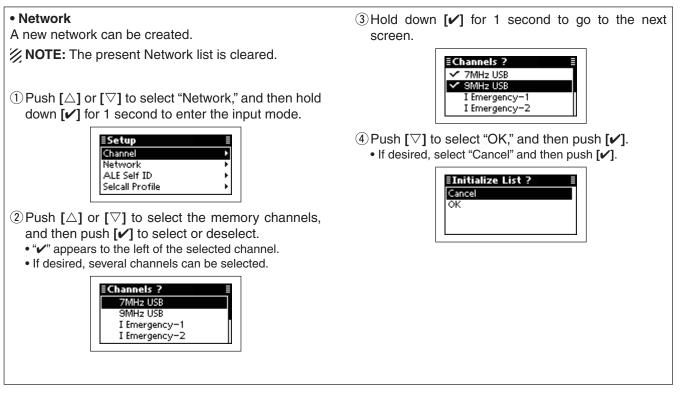


(5) Push [\triangle] or [∇] to select the operating mode.



6 Push [/] to save the channel and exit.

- Manager Menu
- Setup (Continued)



ALE Self ID

A Self ID can be created.

NOTE: The present Self ID is cleared.

 Push [△] or [▽] to select "ALE Self ID," and then hold down [✓] for 1 second to enter the input mode.

≣Setup	
Channel	۰
Network	۲.
ALE Self ID	•
Selcall Profile	•

- ② Push Keypad to enter the desired ID, and then push [✓].
 - \bullet Usable characters are A to Z, 0 to 9, ? and @.
 - Push [A/a](#) to toggle between the Alphabet (Upper case letter) input mode and Number input mode.
 - Push **[X]** to delete the character, symbol or number to the left of the cursor.
 - Push [4](•) or [▶](•••) to move the cursor.



③ Push [∇] to select "OK," and then push [✔].
If desired, select "Cancel" and then push [✔].



Selcall Profile

Selcall Profile can be created.

NOTE: The present Selcall Profile is cleared.

 Push [△] or [▽] to select "Selcall Profile," and then hold down [✓] for 1 second to enter the input mode.

≣Setup	
Channel	Þ
Network	•
ALE Self ID	•
Selcall Profile	•

- ② Push Keypad to enter the desired ID, and then push [✓].
 - Up to 6 numbers can be entered.
 - \bullet Usable characters are A to Z, 0 to 9, ? and @.
 - \bullet Push $\ensuremath{\left[\textbf{X} \right]}$ to delete the number to the left of the cursor.
 - Push [◀](•) or [▶](••••) to move the cursor.



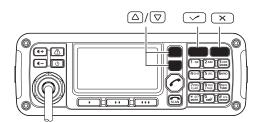
③ Push [∇] to select "OK," and then push [✔].
If desired, select "Cancel" and then push [✔].



Main Menu

♦ Entering the Main Menu

- 1) Push [X] to enter the Main Menu screen.
- ② Push [\triangle] or [∇] to select the item, and then push [\checkmark] to open the screen.
 - "ALE," "Call In," "Call Out," "Channel," "Network," "Selcall," "Setmode" or "VFO" can be selected.
 - If desired, push **[X]** to returns to the Memory channel screen.
- ③ Push [△] or [▽] to select the item, and then push or hold down [✓] to display or edit the screen.



♦ ALE

Displays or edits the Entry of the list that is related to ALE. While displaying an Entry, hold down [✓] for 1 second to enter the programing mode.

Call ID	\longleftrightarrow	Call ID	\leftrightarrow	ID	\rightarrow	ID editing mode
		Displays the prepro-		Displays the ID.		
		grammed Call ID list.		NET ID	$ \longrightarrow $	NET ID selection mode
				Displays the NET ID.		
				Network	\rightarrow	Network selection mode
				Displays the Network.		
				Slot	\rightarrow	Slot selection mode
				Displays the Slot.		
					_	
Message	$ \longrightarrow $	Message		Message editing mode		
		Displays the prepro-				
		grammed Message list.				
NET ID		NET ID	→	NET ID editing mode		
NETID		Displays the prepro-				
		grammed NET ID list.				
		5				
Self ID	\longrightarrow	Self ID	←→	ID	\rightarrow	ID editing mode
		Displays the prepro-		Displays the ID.		
		grammed Self ID list.		NET ID	\leftrightarrow	NET ID selection mode
				Displays the NET ID.		
				Network	\leftrightarrow	Network selection mode
				Displays the Network.		
				Slot	\rightarrow	Slot selection mode
				Displays the Slot.		

♦ Call In/Call Out

Displays the Entry of the Call In (Received Call) or Call Out (Send Call).

♦ Channel

Displays or edits the Memory channels.

While displaying an Entry of the memory channel, hold down [1] for 1 second to enter the editing mode.

Memory Channel	→	Name	→	Name editing mode
Displays the prepro-		Displays the Name.		
grammed Memory		RX frequency	←→	RX frequency editing
channels.		Displays the RX frequency.		mode
		TX frequency	←→	TX frequency editing mode
		Displays the TX frequency.		
		Mode	←→	Mode editing mode
		Displays the Mode.		

♦ Network

Displays or edits the Entry of the Network list. While displaying an Entry, hold down [✔] for 1 second to enter the editing mode.

Network	→	Name]↔	Name editing mode.
Displays the preprogramme	1	Displays the Name.		
Network list.		Scan Type	→	Scan Type selection mode.
		Displays the Scan Type.		
		Call System] ↔	Call System selection mode.
		Displays the Call System.		
		Call Detect Time	→	Call Detect Time selection mode.
		Displays Detected Time.		
		Preamble] ↔	Preamble time selection mode.
		Displays the Preamble time.		
		Sounding Interval] ↔	Sounding Interval selection mode.
		Displays the Sounding Interval.		
		Priority] ↔	Priority setting mode.
		Displays the Priority setting ON or OFF.		
		Channels] ↔	Memory channel selection mode.
		Displays the selected channel number.		

♦ Selcall

Displays or edits the Entry of the list that related to Selcall. While displaying an Entry, hold down [✔] for 1 second to enter the programing mode.

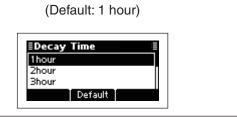
Address		Address	 ←→	Name] ↔	Name editing mode.
		Displays the prepro-		Displays the ID.		
		grammed Address list.		Type/ID	→	Call type selection and ID or
				Displays the Call type and ID or		number editing mode.
				number.		3
				Network	→	Network selection mode.
				Displays the Network.		
				Channel	 ←→	Channel selection mode.
				Displays the Channel.		
				Phone Link	 ←→	Phone Link selection mode.
				Displays the Phone Link.		
				Message	 ←→	Message selection mode.
				Displays the Message.		
				Emergency Link	1	Emergency Link setting mode.
				Displays the Emergency Link		
				setting ON or OFF.		
	_		_		_	
Message	←→	Message	←→	Message editing mode		
		Displays the prepro-				
]	grammed Message list.	ļ]	
	1		1		1	
Phone Link	→	Phone Link	←→	Name	←→	Name editing mode.
		Displays the prepro-		Displays the ID.	-	
		grammed Phone Link		ID	←→	ID editing mode.
		list.		Displays the ID.	-	
				Network	↓ →	Network selection mode.
				Displays the Network.		
				Channel	←→	Channel selection mode.
	J			Displays the Channel.		
	1		1	[1	[<u>.</u>
Profile		Profile	$\left \longleftrightarrow \right $	Name	$ $ \longleftrightarrow	Name editing mode.
		Displays the prepro-		Displays the ID.		
		grammed Profile list.		ID	$ \longleftrightarrow$	Call type selection and ID or
				Displays the ID.		number editing mode.
				Network	$ \longleftrightarrow$	Network selection mode.
			J	Displays the Network.]	

♦ Setmode

ALE Set mode

Decay Time

Set the decay time for the Auto Sounding function to between 1 and 8 hours.



BER Threshold (Default: 12) Set the Bit Error Ratio (BER) threshold level to between 0 and 48 bits for ALE communication quality. Image: Communication quality. One unit consists of 48 bits of data. Image: Communication quality. Golay Threshold Image: Communication quality. Set the Golay threshold level to between 0 and 3 bits (Default: 2)

Set the Golay threshold level to between 0 and 3 bits for ALE communication quality.

The Golay consists of 12 bits of original data and 12 bits of correction data.

Error Threshold

Set the Error threshold level to between 0 and 4 for ALE communication quality.

When errors detected by BER threshold or Golay threshold are over this setting, communication is not possible.

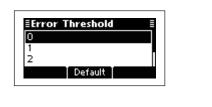
Silent

Set the ALE Silent mode to ON or OFF.

When set to OFF, the transceiver automatically answers back if your station ID is called. When set to ON, the transceiver ignores the call.

Call Retry

Set the retry times to between 0 (OFF) and 10 when the called station does not answer back.



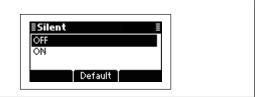
≣Golay Threshold

Default

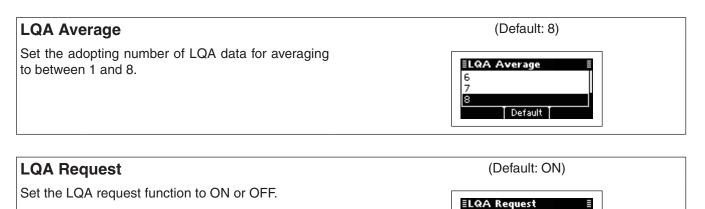
(Default: 0)

(Default: OFF)

0



(Default: 1)	
≣Call Retry 0 1 2 Default	



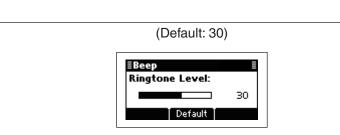
When set to ON, the transceiver requests the called station to send LQA data with an ALE answer back call.

• BEEP Set mode



Ringtone Level

Adjust the ringtone level to between 0 (OFF) and 50 (Maximum), in 1 digit steps, to sound ringer tones when a signal is received.



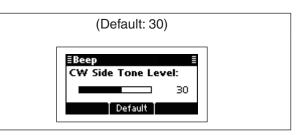
OFF

ON

Default

CW Side Tone Level

Adjust the CW side tone level to between 0 (OFF) and 50, in 1 digit steps.



Setmode (Continued)

Call Set mode

Accept Icom Selcall

This item allows the transceiver to receive and make Icom Selcalls.

This setting is permanently set to "ON."

Accept Open Selcall

This item allows the transceiver to receive and make Open Selcalls.

This setting is permanently set to "ON."

Accept ALE

This item allows the transceiver to receive and make ALE (Automatic Link Establishment) calls.

This setting is permanently set to "ON."

Accept RFDS

(Only AUS version)

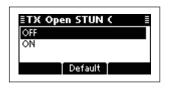
This item allows the transceiver to receive and make RFDS (Royal Fling Doctor Service) emergency calls.

This setting is permanently set to "ON" for the AUS version, or OFF for other versions.

TX Open STUN Call

This item allows the transceiver to make STUN calls.

(Default: OFF)



Timeout

Select the RX Timeout timer between 15 and 300 seconds in 15 seconds steps, or OFF.

After transmitting a Get Position or Get Status command, the transceiver waits for a reply during this set period.

≣Timeout	E
30sec	
45sec	
60sec	
Default	

(Default: 60sec)

Auto Start	Туре	(Default: Scan)
	to Start Type. a occurs during the Auto Start Wait Time elected function automatically starts.	≣Auto Start Type OFF Scan Termination
OFF:	The Auto Start function is disabled.	Default
Scan:	The transceiver automatically cancels the Handshake status, and then the scan starts.	
Termination	: The transceiver automatically cancels	
The Auto Star	the Handshake status. t Wait Time is set in the next item.	

Auto Start Wait Time

Set the Auto Start Wait timer to between 1 and 20 minutes, in 1 minute steps.

If no operation occurs during this period, the Auto Start function automatically starts.

The Auto Start function is selected in the previous item.

Comment Set mode

Customer Name

Enter a customer name of up to 20 characters.

Setting Comment

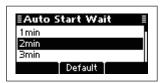
Enter a comment of up to 20 characters.

Model

This item displays the transceiver's model name.

The Model is permanently set to "IC-F8101."

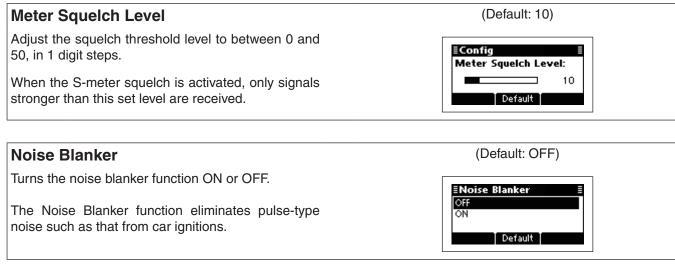
(Default: 2min)



5

♦ Setmode (Continued)

Config Set mode



(Default: 10)

Noise Blanker Level:

| Default |

10

≣Config

Noise Blanker Level

activated.

Adjust the Noise blanker level to between 0 and 15, in 1 digit steps. The set level is effective when the Noise Blanker is

Noise Blanker Depth

(Default: 7) Adjust the Noise blanker depth to between 0 and 9, ≣Config in 1 digit steps. Noise Blanker Depth: The set level is effective when the Noise Blanker is 7 activated. Default

Clear Talk Level	(Default: 10)
The Clear Talk function adjusts signals in the pres-	EConfig
ence of noise using the DSP circuit. This item adjusts	Clear Talk Level:
the Clear Talk Level to between 1 (Minimum) and 15	10
(Maximum).	Default

Pre Amp

Turn ON the Preamplifier function or Attenuator function.

ON: Turns ON the Preamplifier function, which amplifies received signals in the receiver front end, to improve the S/N ratio and the sensitivity.

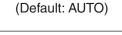
OFF: Turns OFF both functions.

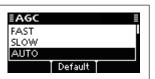
ATT ON: Turns ON the Attenuator function, which prevents a desired signal from being distorted when very strong signals are near the desired frequency, or when very strong electromagnetic fields, such as from broadcast stations, are near your location. (Default: ON)

Default

ON OFF

ATT ON





5

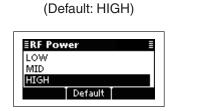
RF Power

SLOW, AUTO or OFF.

AGC

Set the transmit output power to LOW, MID or HIGH.

Set the Automatic gain control settings to FAST,



Speech Processor (Default: OFF) Turns the Speech Processor function ON or OFF. Speech Processo Speech Processor Level (Default: 6)

Adjust the Speech Processor Level to between 0 (Minimum) and 10 (Maximum), in 1 digit steps.

The set level is effective only when the Speech Processor is turned ON.

EConfig

Speech Processor Level

| Default |

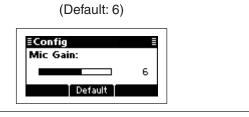
6

Setmode

Config Set mode (Continued)

Mic Gain

Adjust the Microphone gain to between 0 (Minimum) and 10 (Maximum), in 1 digit steps.



(Default: 3min)

Default

(Default: 2.0sec)

Default

(Default: ON)

Default

(Default: ON)

≣TX Timeout

≣CW Break−in

0.5sec

1.0sec 2.0sec

≣Tune

OFF

ON

OFF

1 min 3min

TX Timeout

Set the Time-Out Timer function time to 1, 3, 5 or 10 minutes, or OFF. If a continuous transmission exceeds the set time period, transmitting will be cut off.

CW Break-in

The CW Break-In function toggles transmit and receive with your CW keying. This allows you to mute receiving the time delay ends after you stop keying. Turn ON the CW Break-In function and set the delay to 0.5, 1, 2 or 3 seconds, or OFF.

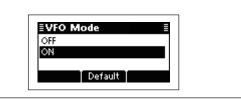
Tuner

Turns the automatic antenna tuner ON or OFF. If you use an optional AT-140, AH-740 or AH-760, select "ON."

- OFF: The antenna tuner is disabled and is bypassed.
- ON: The automatic antenna tuner can be used when the transceiver enters the antenna tune mode.

VFO mode

Select ON or OFF to activate the VFO mode.



VFO Split(Default: OFF)Turns the Split frequency operation in the VFO mode
ON or OFF.
Split frequency operation allows you to transmit and
receive on two different frequencies between VFO A
and VFO B.Image: Comparison of the text of t

(Default: 120sec)

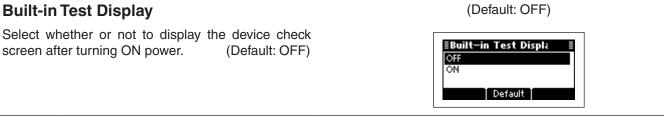
Default

≣Link Interval

100sec 110sec **120sec**

Call In list Call Out list

Default



Emergency Set mode

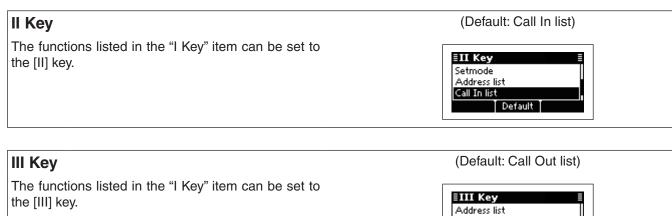
Link Interval

Set the Emergency Link interval time period to between 10 and 300 seconds, in 10 seconds steps.

The transceiver will sequentially send Emergency calls to the stations whose "Emergency Link" item is set to ON in Address of the SELCALL.

Key Set mode

I Key (Default: Address) The functions listed below can be set to the [I] key. ≣I Key Manager Not assign: No function. Setmode Address list Push to enter the Main Menu screen. Menu: Default Manager: Push to enter the Manager Menu screen. Setmode: Push to enter the Setmode screen. Address list: Push to display the Selcall address list. Call In list: Push to display the RX history screen. Call Out list: Push to display the TX history screen.



Setmode (Continued)

Mode Set mode

LSB	Accept	(Default: Disable for AUS, RX & TX for others)
	Set the LSB mode to "Disable," "RX" or "RX & TX."	≣Accept Disable RX
	Disable: Disables the transceiver from both receiving and transmit- ting calls.	RX&TX Default
	RX: Allows the transceiver to re- ceive calls, but disables it from transmitting them.	
	RX & TX: Allows the transceiver to both receive and transmit calls.	
	Band Width	
	Displays the IF filter passband width.	
	The width is permanently set to "3000Hz."	
	Modem AF	(Default: USB)
	Set the connector for data modulation input when an external unit's [PTT] is pushed.	≣Modem AF USB ACC T⊂4
	TC4: Inputs the modulation signals through a RapidM TC4 HF Data Modem Module.	Default
	ACC: Inputs the modulation signals through the ACC connector.	
	USB: Inputs the modulation signals through a USB port.	
USB	Accept	
	Displays the USB mode permission set- ting.	
	This setting is permanently set to "RX & TX."	

Band Width

Displays the IF filter passband width.

The width is permanently set to "3000Hz."

Modem AF

Set the connector for data modulation input when an external unit's [PTT] is pushed.

See the "Modem AF" item in "LSB" for details. (Default: USB)

≣Moden	n AF	E
USB		
ACC		
TC4		
	Default	

CW	Accept	(Default: Disable)
	Set the CW mode to "Disable," "RX" or "RX & TX."	≣ Accept Disable BX
	See the "Accept" item in "LSB" for details.	RX RX&TX Default
	Band Width	
	Displays the IF filter passband width.	
	The width is permanently set to "500Hz."	
АМ	Accept	(Default: RX for AUS, Disable for others)

AM	Accept	(Default: RX for AUS, Disable for others)
	Set the AM mode to "Disable," "RX" or "RX & TX."	≣Accept Disable
	See the "Accept" item in "LSB" for details.	RX RX&TX Default
	Band Width	
	Displays the IF filter passband width.	
	The width is permanently set to "8000Hz."	
	Modem AF	(Default: USB)
	Set the connector for data modulation input when an external unit's [PTT] is pushed.	EModem AF
	See the "Modem AF" item in "LSB" for de- tails.	Default

♦ Setmode

Mode Set mode (Continued)

RTTY	Accept	(Default: Disable)
	Set the RTTY mode to "Disable," "RX" or "RX & TX."	≣Accept I≣ Disable
	See the "Accept" item in "LSB" for details.	RX RX&TX Default
	Tone	(Default: 1615Hz)
	Set the RTTY mark frequency to 1200, 1275, 1487.5, 1615, 1700, 2100 or 2125 Hz.	≣ Tone 1275H2 1487.5H2 1615H2 Default
	Shift	(Default: 170Hz)
	Set the RTTY shift frequency to 170, 200, 425 or 850 Hz.	≣Shift ≣ 170Hz 200Hz 425Hz I Default
	Polarity	(Default: Normal)
	Set the keying polarity to Normal or Reverse. When reverse polarity is selected, the mark and space frequencies are reversed.	≣ Polarity NORMAL REVERSE Default
	Normal: Key open/close = Mark/Space Reverse: Key open/close = Space/Mark	

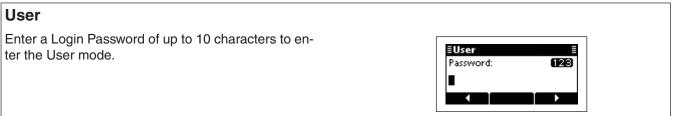
LSBD1	Accept	(Default: Disable)
USBD1	Set the LSBD1 or USBD1 mode to "Dis- able," "RX" or "RX & TX."	≣Accept ≣ Disable
	See the "Accept" item in "LSB" for details.	RX RX&TX Default
	Offset	
	Displays the Offset frequency.	
	The frequency is permanently set to "1800Hz."	
	Band Width	
	Displays the IF filter passband width.	
	The width is permanently set to "3000Hz."	
	Modem AF	(Default: TC4)
	Set the connector for data modulation input when an external unit's [PTT] is pushed.	≣Modem AF USB ACC TC4
	See the "Modem AF" item in "LSB" for de- tails.	Default
LSBD2	Accept	(Default: Disable)
USBD2	Set the LSBD2 or USBD2 mode to "Dis- able," "RX" or "RX & TX."	≣ Accept Disable BX
	See the "Accept" item in "LSB" for details.	RX&TX Default
	Offset	
	Displays the Offset frequency.	
	The frequency is permanently set to "1500Hz."	
	Band Width	
	Displays the IF filter passband width.	
	The width is permanently set to "3000Hz."	
	Modem AF	(Default: ACC)
	Set the connector for data modulation input when an external unit's [PTT] is pushed.	≣Modem AF USB ACC TC4
	See the "Modem AF" item in "LSB" for de- tails.	Default

♦ Setmode

Mode Set mode (Continued)

LSBD3	Accept	(Default: Disable)
USBD3	Set the LSBD3 or USBD3 mode to "Dis- able," "RX" or "RX & TX."	≣Accept i≣ Disable BX
	See the "Accept" item in "LSB" for details.	RX&TX Default
	Offset	
	Displays the Offset frequency.	
	The frequency is permanently set to "1650Hz."	
	Band Width	
	Displays the IF filter passband width.	
	The width is permanently set to "3000Hz."	
	Modem AF	(Default: ACC)
	Set the connector for data modulation input when an external unit's [PTT] is pushed.	≣Modem AF USB ACC TC4
	See the "Modem AF" item in "LSB" for de- tails.	Default

Password Set mode



Admin

Enter a Login Password of up to 10 characters to enter the Administrator mode.



PIN Code Set mode

PIN Code

Set a PIN code of up to 10 digits. When the matched Selcall ID and PIN Code are received, the stun function is activated.



Scan Set mode

Туре

Set the scan type to "Call," "S-Meter," "Voice" or "All Memory." (Default: Call)

CALL: Call Scan. It scans the channels that belong to the network group whose scan type is "Call."

If your station ID is called with a Selcall or ALE call, the scan stops on that channel and the voice squelch control function is activated.

S-Meter: S-Meter Scan. It scans the channels that belong to the network group whose scan type is "S-Meter." If the transceiver detects the signal whose

S-meter level is higher than the Meter Squelch Level setting, the scan stops on that channel.

Voice: Voice Scan. It scans the channels that belong to the network group whose scan type is "Voice." If the transceiver detects voice compo-

If the transceiver detects voice components, the scan stops on that channel.

All: All Memory Scan. It scans all memory channels.

If the transceiver detects signal whose S-meter level is higher than the Meter Squelch Level setting, the scan stops on that channel.

Voice Scan Resume

Set the scan resume function to ON or OFF for an S-Meter, Voice or All Memory scan, and set the pause timer to between 5 seconds and 120 seconds, in 5 second steps. (Default: 10sec)

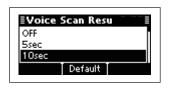
When this setting is ON and a signal is detected, a scan pauses for this set period, then resumes, or resumes 2 seconds after the signal disappears. If OFF is selected, the scan pauses until the signal disappears.

All Memory Scan Speed

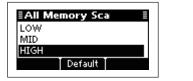
Set the scan speed for the All Memory scan to LOW, MID or HIGH. (Default: HIGH) (Default: Call)



(Default: 10sec)



(Default: HIGH)

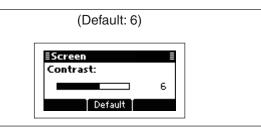


♦ Setmode (Continued)

Screen Set mode

Contrast

Adjust the contrast of the LCD to between 0 and 10, in 1 digit steps.



5

(Default: 5)

Default

(Default: CONTINUOUS)

Default

≣Screen

Dimmer:

≣Backlight

CONTINUOUS

85 90

Dimmer

Adjust the backlight brightness of the LCD to between 0 (dark) and 10 (bright), in 1 digit steps.

1 to 10: Lights while the transceiver power is ON. 0: Turns OFF the backlight.

Backlight

Set the LCD backlight timer to OFF, Continuous, or to between 5 and 90 seconds, in 5 second steps.

OFF:	Never lights.
OFF.	Never lights.
5 to 90:	Lights when an operation is per-
	formed, goes out after the specified
	time period.
CONTINUOUS	Lights continuously while the trans-
	ceiver power is ON.

Marquee

Set the marquee times for the text scroll function.

OFF: Turns OFF the function. 1 time to 7 times: Scrolls the text for the selected number of times. CONTINUOUS: Continuously scrolls the text.

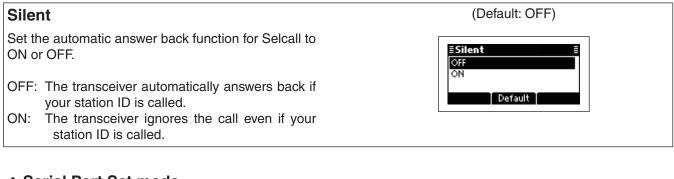


(Default: Channel) Select the default home display. ≣Home Channe Channel: The contents of the Channel sheet is dis-/FC played. Default VFO: The operating frequency is displayed.

(Default: 2 times)



Selcall Set mode



Serial Port Set mode

GPS Baudrate

CI-V Baudrate

9600, 19200 or AUTO.

Set the GPS data transfer speed to 4800 or 9600 bps.

Set the CI-V data transfer speed to 300, 1200, 4800,

When "AUTO" is selected, the baud rate is automati-

cally set according to the data rate of the controller

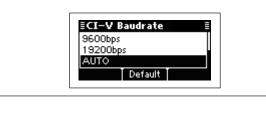
(Default: AUTO)

(Default: 4800)

| Default |

≣GPS Baudrate

4800bps 9600bps



(Default: 8Ah) **CI-V Address** To distinguish equipment, each CI-V transceiver has ECI-V Address 13 its own Icom standard address in hexadecimal code. 88h 89h 8Ah Default

Setmode (Continued)

Time Set mode

Local

Set the Local time.

Before programming this item, the "UTC Offset" item must be set.

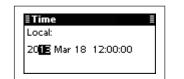
- Push [△] or [▽] to select this item, and then hold down [✓] to open the programming screen.
- **(2)** Push [\triangle] or [∇] to select the digit.
- Push [**/**] to move the cursor right, push [**X**] to move the cursor left.
- ③ After the 'second' digit is programmed, push [✓] to set the time and return to the previous screen.

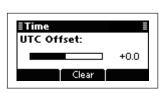
UTC Offset

Select the time difference between UTC (Universal Time Coordinated) and the local time.

-12.0 to + 12.0 (in 0.5* steps) * 0.5 = 30 minutes

This item must be set before programming the "Local" item.

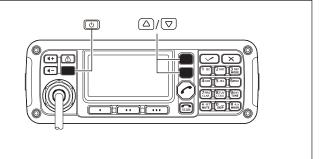




CPU Reset

If you want to initialize the operating settings in the Main Menu, without clearing memory channel contents or ID contents, do the following steps.

- ① Turn OFF the transceiver power, if it is powered ON.
- (2) While holding down [\triangle] and [∇], and push [] to turn ON the transceiver power to reset the CPU.



CONNECTION AND INSTALLATION

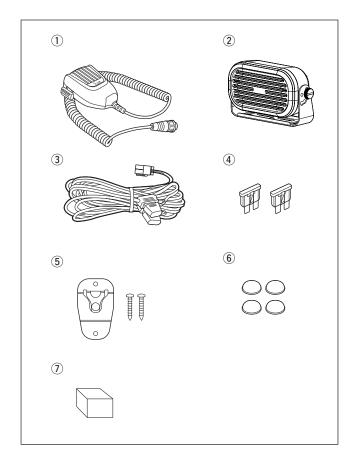
Supplied accessories

♦ One package type

6

The following accessories are supplied with IC-F8101 One package type.

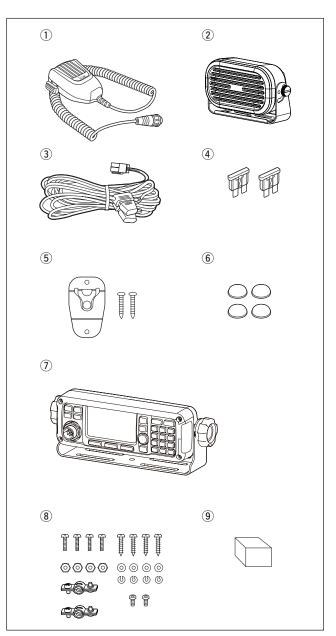
① Microphone	1
2 External speaker	1
③ DC power cable	1
4 Spare fuses (ATC 30 A)	
5 Microphone hanger kit	
6 Rubber feet	
(7) Sponge	



♦ Separated type

The following accessories are supplied with IC-F8101
Separated type.
① Microphone 1
2 External speaker 1
③ DC power cable1
④ Spare fuses (ATC 30 A)
(5) Microphone hanger kit 1 set
6 Rubber feet
 Remote controller with mounting bracket
8 Separation kit*
9 Sponge1
*The separation cable is not supplied, and must be pur-

The separation cable is not supplied, and must be pur chased separately according to the cable length.

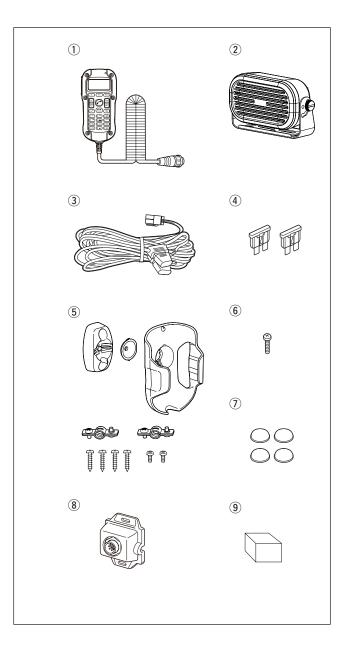


♦ Remote control microphone type

The following accessories are supplied with IC-F8101 Remote control microphone type.

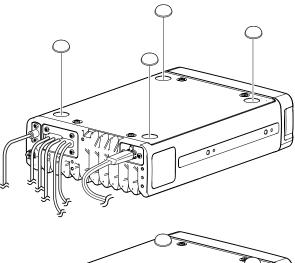
① Remote control microphone	1
2 External speaker	1
③ DC power cable	1
④ Spare fuses (ATC 30 A)	
5 Microphone hanger kit	1 set
6 Screw	1
⑦ Rubber feet	4
 8 Separation MIC connector 	
	1

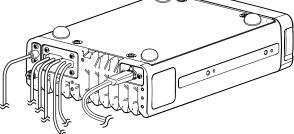
chased separately according to the cable length.



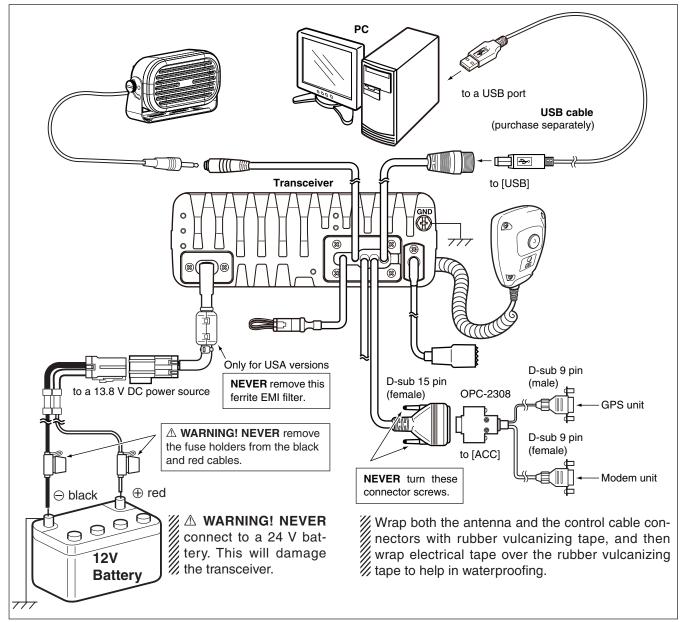
♦ Attaching the rubber feet

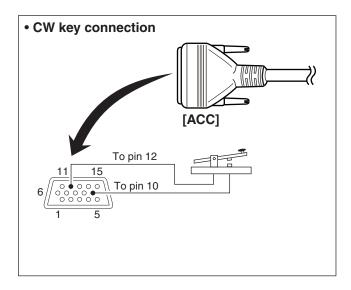
- 1) Turn the Main unit upside down.
- ② Remove the protective sheets from the rubber feet.
- ③ Stick the rubber feet into the round hollow spots on the bottom cover.

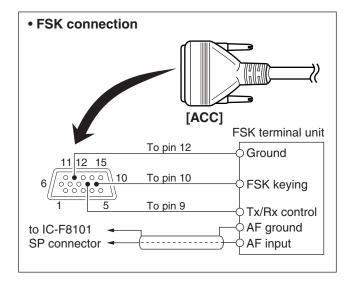


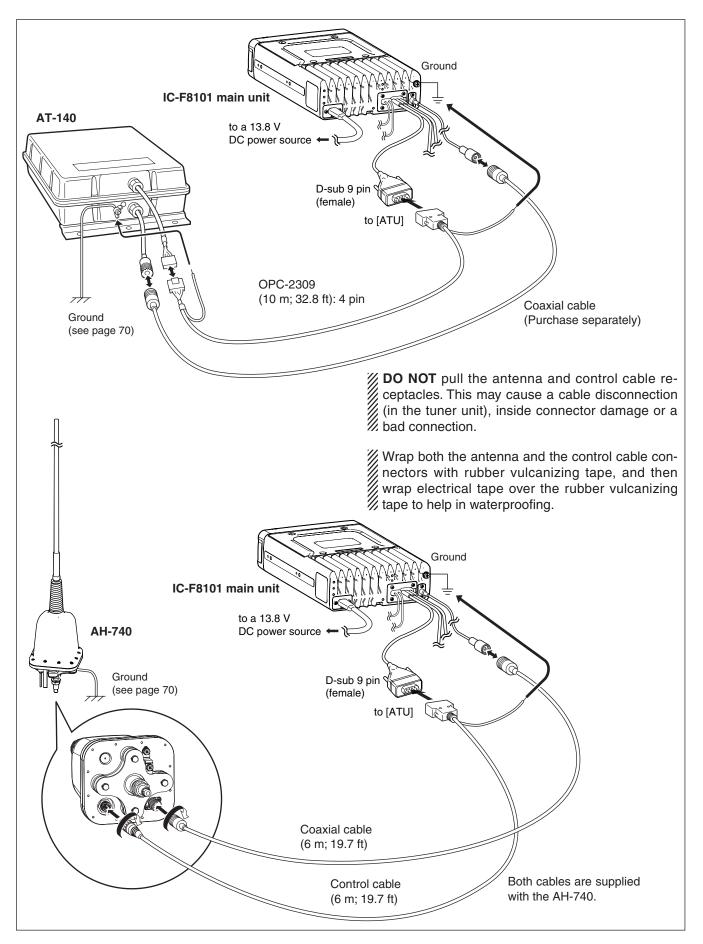


Connections









Ground connection

The transceiver and antenna tuner MUST have an adequate RF ground connection. Otherwise, the overall efficiency of the transceiver and antenna tuner installation will be reduced. Electrolysis, electrical shocks and interference from other equipment could also occur.

For best results, use a 50 or 75 mm (2 or 3 inches) wide copper strap, and make the connection as short as possible. Ground the transceiver and antenna tuner to the same ground point, otherwise the voltage difference (at the RF level) between two ground points may cause electrolysis.

Use Zinc anodes to protect the hull from electroly-

A WARNING! When grounding to a metal hull Use Zinc anodes to protect the hull from electroly sis. Ask your dealer, technical installer or refer to a technical book, and so on, for RF grounding de tails. Ask your dealer, technical installer or refer to a technical book, and so on, for RF grounding de-

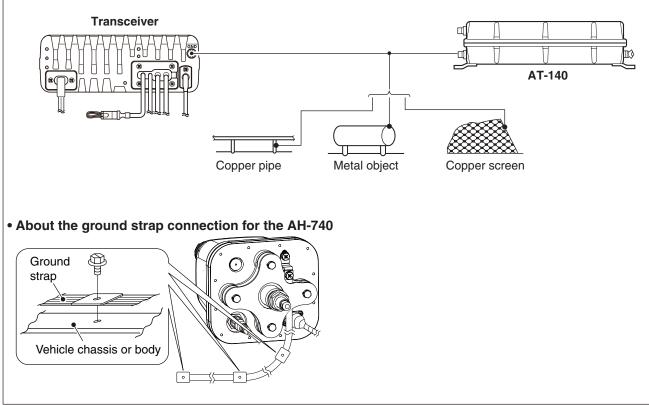
Best ground points

- External ground plate
- Copper screen
- Copper foil

Unusable ground points

(These connections may cause an explosion or electrical shock)

- · Gas or electrical pipe
- Fuel tank or oil-catch pan



Ground system example

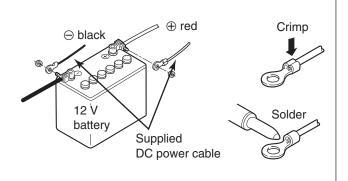
Power source

The transceiver requires regulated DC power of 13.8 V and at least 28 A. There are two ways to supply power:

- Direct connection to a 12 V battery in your vehicle through the supplied DC power cable.
- Use a DC power supply connected to an AC outlet.

DC power cable connection

NOTE: Use terminals for the cable connection.



Antenna

Most stations operate with a whip or long wire (insulated back stay) antenna. However, these antennas cannot be connected directly to the transceiver since their impedance may not match with the transceiver antenna connector.

♦ AT-140 AUTOMATIC ANTENNA TUNER See page 69.

♦ AH-740 AUTOMATIC TUNING ANTENNA See page 69.

△ DANGER HIGH VOLTAGE!

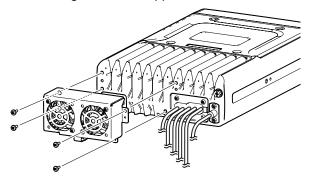
ADANGER INC. NEVER touch the ing or transmitting. NEVER touch the antenna element/wire while tun-

♦ Non-Icom tuner

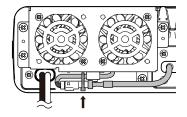
Some non-lcom tuners may be used with the IC-F8101. Please consult your dealer if you wish to use one.

■ CFU-F8100 (Optional Cooling Fan)

(1) Attach the Cooling fan to the transceiver's heatsink, and tighten the 4 supplied M3 \times 8 mm screws.



2 Secure the connector and cables using the supplied cable tie.



For Users in California (U.S.A.)

This CR1632 Lithium Battery contains Perchlorate Material—special handling may apply.

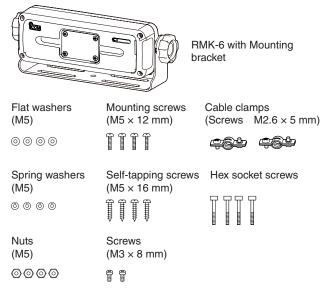
See http://www.dtsc.ca.gov/hazardouswaste/perchlorate

RMK-6 (Optional Separation kit)

The RMK-6 allows you to install the IC-F8101's Front panel separately from the Main unit for added installation convenience and operation. Use either the optional OPC-607, OPC-608, OPC-609 or OPC726 SEPARATION CABLE with the RMK-6.

The RMK-6 is the same as the one supplied in the Separated type transceiver.

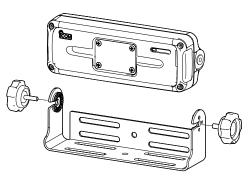
Supplied Accessories



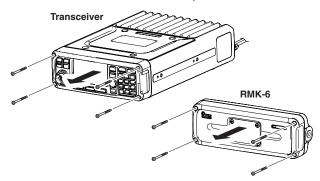
♦ Separation

The optional OPC-607 (3 m; 9.8 ft), OPC-608 (8 m; 26.2 ft), OPC-609 (1.9 m; 6.2 ft) or OPC-726 (5 m; 16.4 ft) SEPARATION CABLE is required for separately installing the transceiver Front panel and Main unit.

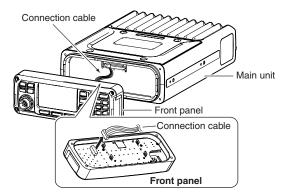
- ①First, make sure the transceiver's power is OFF, then disconnect the DC power cable.
- ② Remove the knob bolts and mounting bracket from the RMK-6.



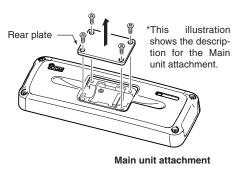
- ③Unscrew the 4 hex socket screws using an allen wrench, then remove the Front panel from the transceiver in the direction of the arrow.
 - Separate the RMK-6's Front panel attachment and Main unit attachment in the same way.



④ Disconnect the connection cable from the Front panel.



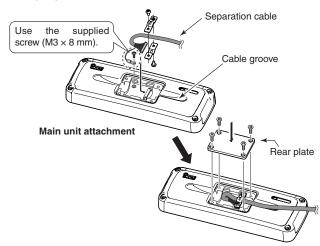
(5) Unscrew the 4 rear plate screws, then remove the rear plates from both the front panel and Main unit attachments.



6 Connect either the OPC-607, OPC-608, OPC-609 or OPC-726 separation cable to the Main unit attachment, as shown below.

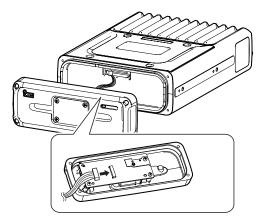
After the connecting the cable, replace the rear plate and the 4 screws.

• The separation cable can be inserted into either the left or right grooves on the back of the attachment.

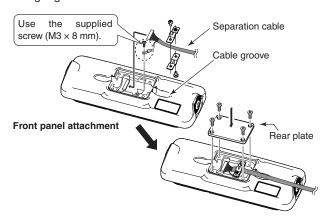


⑦Connect the connection cable coming from the RMK-6, as shown below.

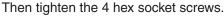
Then tighten the 4 hex socket screws.

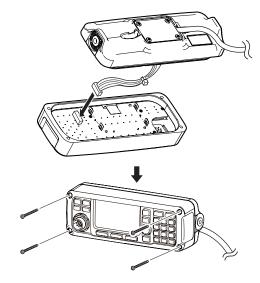


- (8) Connect the other end of the Separation cable to the front panel attachment, as shown below. After the cable connection, replace the removed rear plate and the 4 screws.
 - The separation cable can be inserted into either the left or right grooves on the back of the attachment.



(9) Connect the connection cable coming from the RMK-6, as shown below.
Then tighten the 4 have exclusive exclusion.





HM-192 (Optional Remote control microphone)

The HM-192 allows you to remotely control the transceiver by using the microphone instead of the Front panel*. Use either the optional OPC-607, OPC-608, OPC-609 or OPC-726 SEPARATION CABLE.

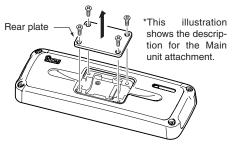
The HM-192 is the same as the one supplied in the Remote control microphone type transceiver.

*When the HM-192 is connected, the Front panel can not be used.

♦ Mounting

The optional OPC-607 (3 m; 9.8 ft), OPC-608 (8 m; 26.2 ft), OPC-609 (1.9 m; 6.2 ft) or OPC-726 (5 m; 16.4 ft) SEPARATION CABLE is required to install the transceiver's Main unit and Remote control microphone.

①Unscrew the 4 rear plate screws, then remove the rear plates from both the Extension MIC connector and the Main unit attachment.

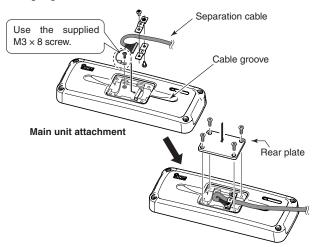


Main unit attachment

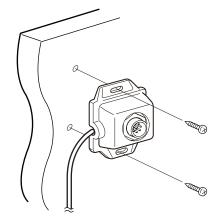
② Connect either the OPC-607, OPC-608, OPC-609 or OPC-726 separation cable to the Main unit attachment, as shown below.

After connecting the cable, replace the rear plate and the 4 screws.

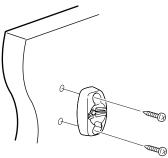
• The separation cable can be inserted into either the left or right grooves on the back of the attachment.



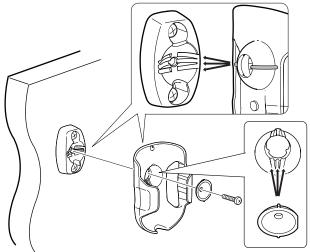
③ Connect the other side of the Separation cable to the Extension MIC connector, as described in step ②. After the cable is connected, replace the rear plate and the 4 screws. (4) Attach the Extension MIC connector to the desired place, then tighten the 2 supplied screws (M4 \times 20 mm).



(5) Attach the holder base to the desired place near the Extension MIC connector, then tighten the 2 supplied screws (M4 \times 20 mm).



6 Adjust the MIC holder angle, then tighten the one supplied M4 \times 14 mm screw.



⑦Connect the HM-192 to the Extension MIC connector.

Mounting

♦ Mounting location

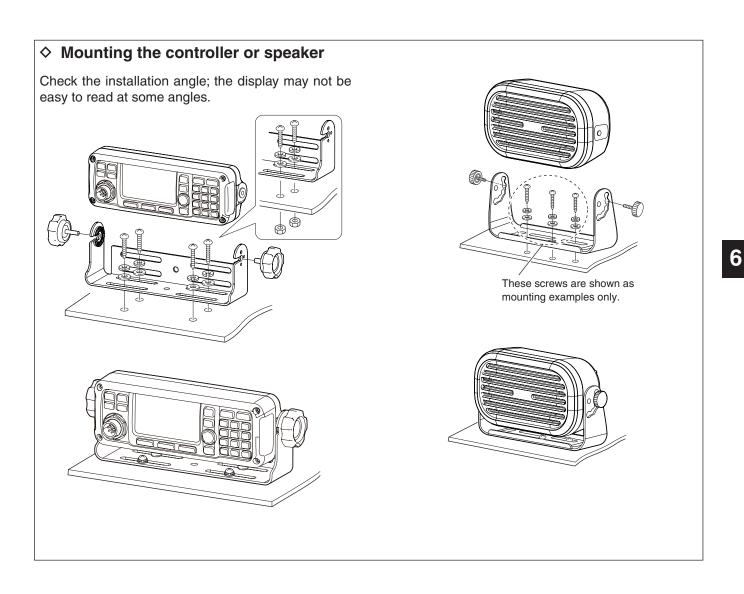
Select a location that can support the weight of the transceiver and does not interfere with driving.

NEVER place the main unit or remote controller where normal operation of the vehicle may be hindered, or where it could cause bodily injury.

NEVER place the main unit or remote controller where air bag deployment may be obstructed.

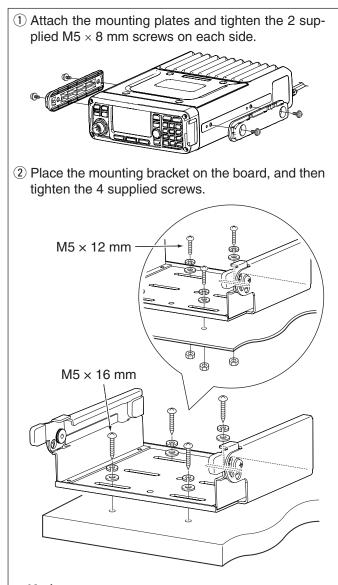
DO NOT place the main unit or remote controller where hot or cold air blows directly onto it.

DO NOT place the main unit or remote controller in direct sunlight.



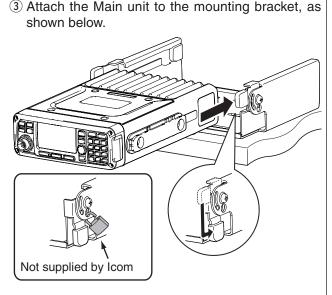
♦ MB-126 (Optional mounting bracket)

An optional mounting bracket MB-126 is used to mount the transceiver or transceiver's Main unit onto a flat surface.



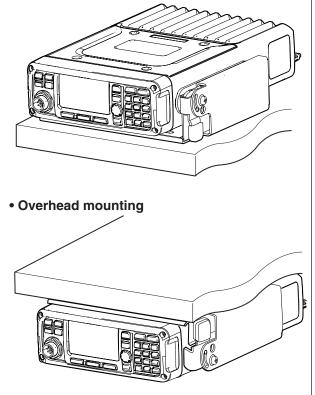
WARNING! Mount the mounting bracket to a surface that can support more than 10 kg (22 lb). The unit must be mounted on only a flat hard surface.

When using the M5 × 16 mm tapping screws:
Mount the mounting bracket to a board that is more than 20 mm (0.8 inches) thick.
When using the M5 × 12 mm screws:
Mount the mounting bracket to a board to which you can firmly tighten the screws with the washers and nuts.



Attention to mount on the board: If the supplied rubber feet are attached to the Main unit (p. 67), remove them before attaching it to the mounting bracket. Otherwise the feet get stuck, and you cannot slide the Main unit into the bracket.

- (4) The completed mounting should look like this.
 - Surface mounting



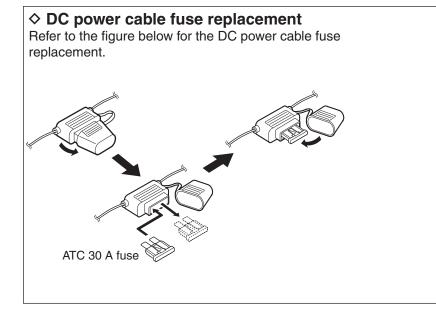
Fuse replacement

If a fuse blows, or the transceiver stops functioning, find the source of the problem, and repair it. Then replace the damaged fuse with a new, adequately rated fuse.

WARNING! Turn OFF the power and disconnect the DC power cable from the transceiver before performing any work on the transceiver. Otherwise, there is a danger of electric shock, equipment damage and/or fire or injury.

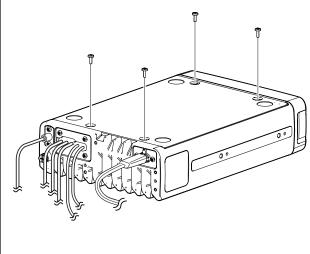
The IC-F8101 has two fuse types installed for transceiver protection.

- DC power cable ATC 30 A
- Circuitry fuse MINI BLADE 5 A

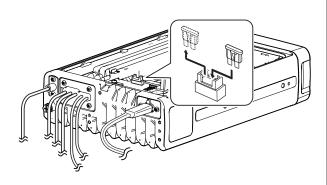


♦ Internal fuse replacement

- 1) Turn the transceiver upside down.
- ② Unscrew 4 screws from the bottom cover, then remove the cover.



- 3 Replace the circuitry fuse as shown in the diagram below.
 - Use the supplied MINI BLADE 5 A fuse.



④ Reattach the bottom cover to its original position.

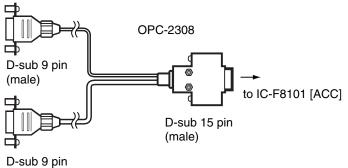
■ Connector information

ACC	Pin	Pin name	Description	Specification
	1	CI-V		—
	2	AF IN	Input terminal for the AF signal.	Input sensitivity (Data mode): More than 52.5 W at 100 mV
	3	AF OUT	Output terminal for the AF signal.	Output level: 200 to 400 mVrms when receiving Data mode
	4	AF GND	Ground line for the AF signal.	—
$11 15 6 \sqrt[\circ \circ \circ$	5	GPS RXD	Input terminal for receive data from GPS unit.	NMEA0183
	6	NC	_	
1 5	7	RELAY	Goes to ground when transmitting.	Less than 100 mV
	8	EALC	ALC voltage input.	Control sensitivity (at –3 V input): More than 40 dB suppression
	9	MODPTT	PTT input terminal. When grounded, transmits.	Input voltage: Less than 0.8 V for transmit
	10	CW KEY	CW and FSK keying input.	CW: Less than 0.6 V for transmit RTTY: Open=Mark
	11	EALARM	Output terminal for the Alarm signal.	Output current: 12 mA±10% Open collector
	12	GND	Connect to ground.	—
	13	NC		—
	14	NC	_	—
	15	NC		—

ATU	Pin	Pin name	Description	Specification
6 9	1	KEY	Key signal input.	—
	2	START	Start/bypass signal output.	_
	3	13.8V	13.8 V output for Antenna tuner.	13.8 V, maximum 2 A
	4	13.8V	13.8 V output for Antenna tuner.	13.8 V, maximum 2 A
	5	GND	Connect to ground.	—
1 5	6	GND	Connect to ground.	—
	7	NC	—	—
	8	NC	—	_
	9	NC		

Pin Pin name Pin 1 NC ____ 2 GPS RX 5 6 9 $\left(\begin{array}{c} 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}\right)$ 3 NC _ 4 NC ____ 5 1 5 GND 12 6 NC ____ 7 NC ____ D-sub 9 pin 8 NC ____ 15 11 (Male) 9 NC ____ 6 10 1 CI-V 1 5 2 MODPTT 9 6 9 3 NC ____ 0000 4 NC _ 1 5 5 NC _ 6 AF OUT 3 7 AF IN 2 D-sub 9 pin D-sub 15 pin 8 AF GND 4 (Female) (Male) 9 GND 12

Connector information for OPC-2308



(female)

7 SPECIFICATIONS

♦ General

• Frequency coverage: Receive Transmit	0.5–29.9999 MHz 1.6–29.9999 MHz		
• Mode:			
AUS versions Other versions	J3E (USB), A3E (AM) RX only J3E (USB/LSB), A3E (AM) A1A (CW), F1B (FSK), J2B (D1, D2, D3)		
 No. of memory Ch.: 	500 channels (maximum)		
Usable temp. range:	−30°C to +60°C; −22°F to +140°F		
 Frequency stability: 	±0.3 ppm (–30°C to +60°C; –22°F to +140°F)		
• Antenna impedance:	50 Ω		
 Power supply: AUS versions Other versions 	13.8 V DC (negative ground) 10.8–15.6 V DC 11.73–15.87 V DC		
Current drain:			
Transmit	Less than 28 A (at maximum power)		
Receive	Less than 3.0 A (at maximum audio)		
Dimensions (projectic Main/Front package	ons are not included): 62(H)×174(W)×259(D) mm 2.4(H)×6.9(W)×10.2(D) in		
Weight (approximately):			

Main/Front package 3.9 kg, 8.6 lb

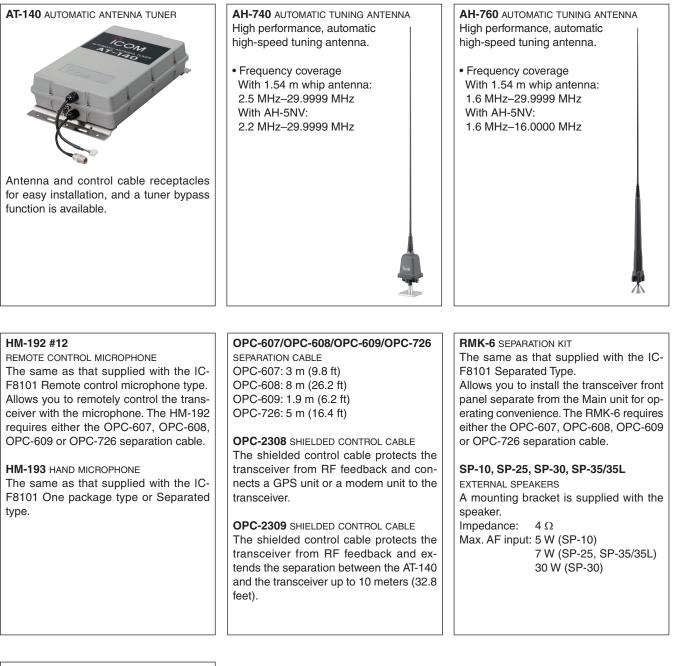
♦ Transmitter

\checkmark transmitter		
 Output power (typical):	
AUS versions	,	
J3E	HIGH MID LOW	100 W p-p 50 W p-p 10 W p-p
Other versions		
J3E/A1A	HIGH MID LOW	125 W p-p 50 W p-p 10 W p-p
A3E	HIGH MID LOW	30 W Carrier 12.5 W Carrier 3 W Carrier
F1B/J2B	HIGH MID LOW	75 W 50 W 10 W
 Spurious emission: 		
USA versions	64 dB	
	below	peak output power
Other versions		(typical)
	below	peak output power
Carrier suppression:	50 dB below	peak output power
 Unwanted sideband s 		
400 Hz	55 dB	51011.
100112		peak output power
1 kHz	65 dB	
		peak output power
 Duty cycle: 		
Normal conversation	100%	(−30°C to +60°C; −22°F to +140°F)
Continuous Data mode		
		–22°F to +86°F)
All mode with Fan (C		
	100%	(–30°C to +45°C;
		–22°F to +113°F)

♦ Receiver

• Sensitivity: J3E (Pre Amp ON) (0.5–1.5999 MHz) (1.6–29.9999 MHz)	14 dBµV (10 dB S/N) −14 dBµV (10 dB S/N)
A3E (0.5–1.5999 MHz)	22 dBµV (10 dB S/N)
(1.6–29.9999 MHz)	6 dBµV (10 dB S/N)
 Spurious response rej 	ection ratio: More than 70 dB
• AF output power (at 1	3.8 V DC):
	More than 4.0 W at 10% distortion with a 4 Ω load
 Clarifier range: 	±200 Hz

OPTIONS



8

AH-5NV NVIS KIT

Approximately 4.5 m (14.8 ft) long antenna.

• Frequency coverage With AH-740: 2.2 MHz – 29.9999 MHz With AH-760: 1.6 MHz – 16.0000 MHz

CFU-F8100 COOLING FAN

MB-126 MOUNTING BRACKET

Count on us!