



You can easily begin using

D-STAR repeaters!

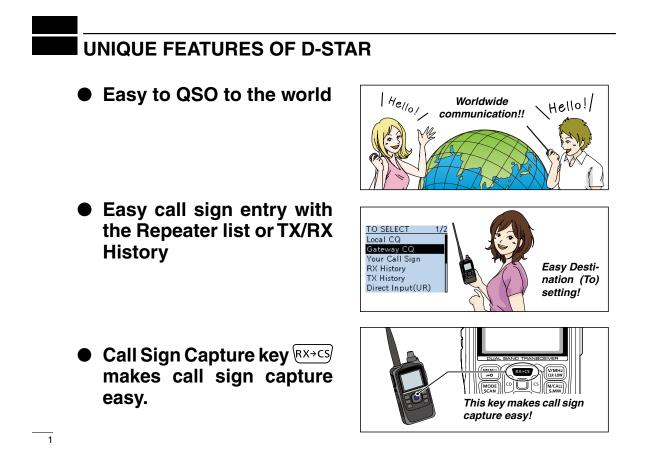
BASIC INSTRUCTIONS

VHF/UHF TRANSCEIVER ID-51A VHF/UHF TRANSCEIVER ID-51E

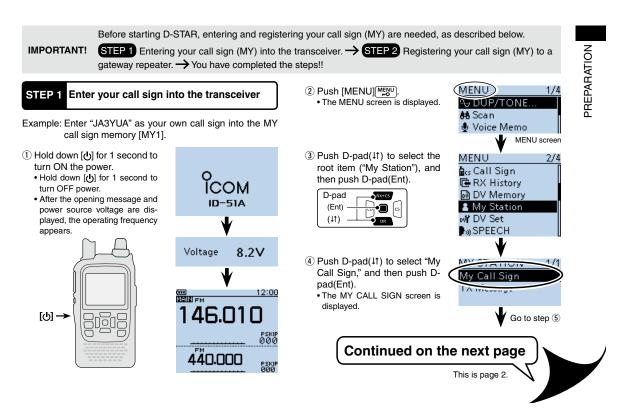
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CEL-LULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

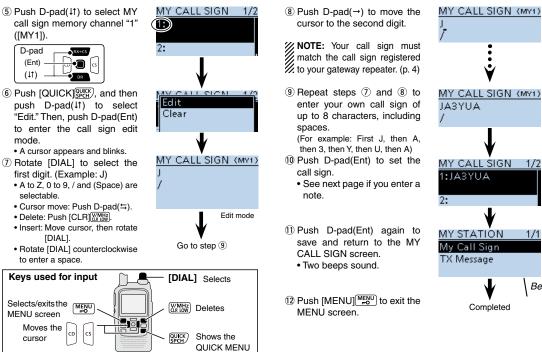
Icom Inc.



PREPARATION



PREPARATION





PREPARATION

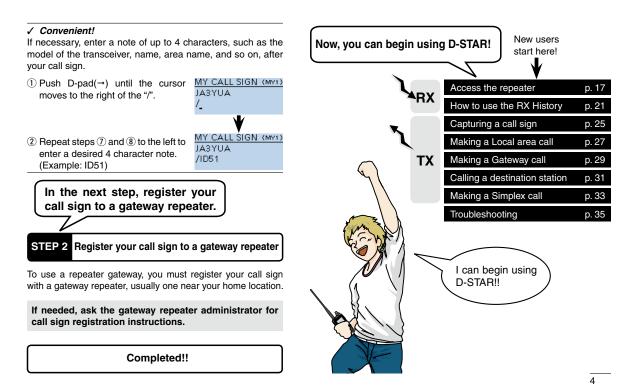
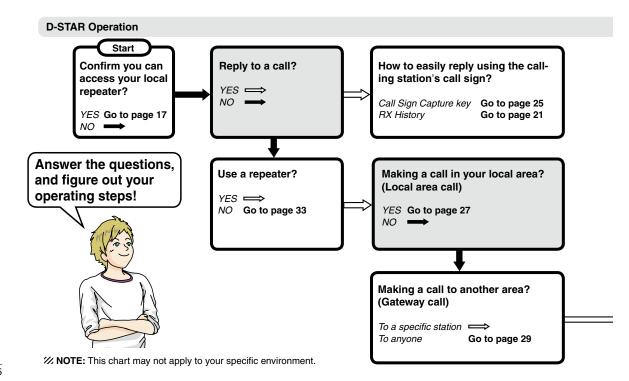


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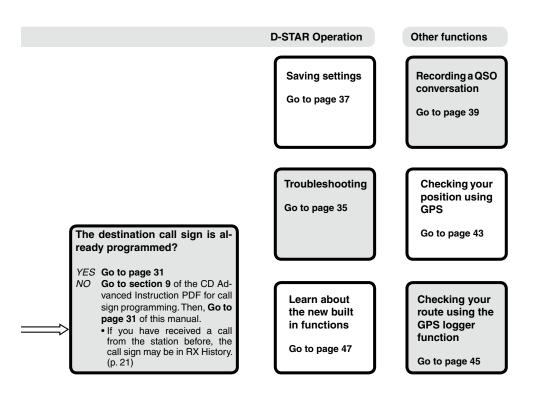


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FOREWORD

Thank you for purchasing this fine Icom product. The ID-51A or ID-51E VHF/UHF TRANSCEIVER is designed and build with Icom's superior technology and craftsmanship combining traditional analog technologies with the new digital technology, Digital Smart Technologies for Amateur Radio (D-STAR), for a balanced package.

With proper care, this product should provide you with years of trouble-free operation.

We thank you for making your ID-51A or ID-51E your radio of choice, and hope you agree with Icom's philosophy of "technology first." Many hours or research and development went into the design of your ID-51A or ID-51E.

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FEATURES

- Dual independent receivers in one radio; receives two bands simultaneously Two band monitoring plus the Broadcast (BC) Radio
 - Depending on the selected operating mode, Dualwatch or Triple-watch cannot be made.
- Rapid charging is possible, and the charging time period is approximately 3 hours with the supplied battery pack. (Half periods of the ID-31A/E)
- Built-in GPS receiver allows you to check your current position, or automatically send a reply with your position to the called ID-51A/E
- Voice recorder records your QSO conversation, voice audio for TX and microphone voice audio
- microSD card slot that can accept different cards to backup settings, various memories, the GPS log and so on

EXPLICIT DEFINITIONS

WORD	DEFINITION	
▲ DANGER!	Personal death, serious injury or an explosion may occur.	
	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.	

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL— This instruction manual contains basic operating instructions for the ID-51A/ID-51E.

SUPPLIED ACCESSORIES

 The following accessories are supplied with the transceiver.
 1

 ① Antenna
 1

 ② Hand strap
 1

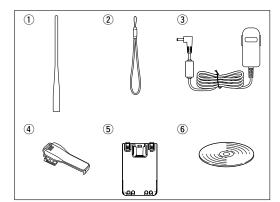
 ③ Battery charger (BC-167SA/SD/SV)*
 1

 ④ Belt clip
 1

 ⑤ Battery pack (BP-271)
 1

 ⑥ CD (Including the CS-51 CLONING SOFTWARE)
 1

* Not supplied, or the shape is different, depending on the transceiver version.



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ABOUT THE SUPPLIED CD

The following instructions and installers are included on the CD.

Basic instructions

Instructions for the basic operations, the same as this manual $% \left({{{\boldsymbol{x}}_{i}}} \right)$

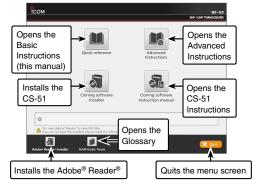
- Advanced Instructions
 Instructions for the advanced operations and more details
 are described than in this manual
- HAM radio Terms
 A glossary of HAM radio terms
- CS-51 Instruction manual
- Instructions for the CS-51 cloning software installation and use

CS-51 Installer

- Installer for the CS-51 cloning software • Adobe[®] Reader[®] Installer
- Installer for Adobe[®] Reader[®]

Starting the CD

- ① Insert the CD into the CD drive.
 - Double click "Autorun.exe" on the CD.
 - Depending on the PC setting, the Menu screen shown below is automatically displayed.
- (2) Click the desired button to open the file.
 - To close the Menu screen, click [Quit].



To read the guide or instructions, Adobe[®] Reader[®] is required. If you have not installed it, please install the Adobe[®] Reader[®] on the CD or downloaded it from Adobe Systems Incorporated's website.

- A PC with the following Operating System is required. • Microsoft[®] Windows[®] 8, Microsoft[®] Windows[®] 7, Microsoft[®]
- Windows Vista[®] or Microsoft[®] Windows[®] XP

PRECAUTIONS

▲ **DANGER! NEVER** short the terminals of the battery pack.

▲ **DANGER!** Use and charge only specified Icom battery packs with Icom radios or Icom chargers. Only Icom battery packs are tested and approved for use with Icom radios or charged with Icom chargers. Using third-party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.

▲ WARNING RF EXPOSURE! This device emits Radio Frequency (RF) energy. Caution should be observed when operating this device. If you have any questions regarding RF exposure and safety standards, please refer to the Federal Communications Commission Office of Engineering and Technology's report on Evaluating Compliance with FCC Guidelines for Human Radio Frequency Electromagnetic Fields (OET Bulletin 65).

▲ **WARNING! NEVER** hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver is vertical. ▲ **WARNING! NEVER** operate or touch the transceiver with wet hands. This may result in an electric shock or may damage the transceiver.

▲ **WARNING! NEVER** operate the transceiver with an earphone, headphones 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 level or discontinue use.

▲ **WARNING! NEVER** operate the transceiver while driving a vehicle. Safe driving requires your full attention— anything less may result in an accident.

 \triangle **WARNING! NEVER** connect the transceiver to a power source of more than 16 V DC or use reverse polarity. This could cause a fire or damage the transceiver.

CAUTION: MAKE SURE the flexible antenna and battery pack are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver.

After exposure to water, clean the battery contacts thoroughly with fresh water and dry them completely to remove any water or salt residue.

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PRECAUTIONS

CAUTION: DO NOT use harsh solvents such as benzine or alcohol to clean the transceiver, because they can damage the transceiver's surfaces.

DO NOT push the PTT unless you actually intend to transmit.

DO NOT operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below $-20^{\circ}C$ ($-4^{\circ}F$) or above $+60^{\circ}C$ ($+140^{\circ}F$).

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

BE CAREFUL! The transceiver meets IPX7* requirements for waterproof protection. However, once the transceiver has been dropped, waterproof protection cannot be guaranteed because of possible damage to the transceiver's case or waterproof seal.

Only when the BP-271 or BP-272 (option), flexible antenna, [MIC/SP] cap, [DATA/DC IN] cap and [micro SD] slot cap are attached. Place the unit in a secure place to avoid inadvertent use by children.

The BP-273 meets IPX4 requirements for splash resistance. When it is connected, the transceiver corresponds to IPX4. Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack or batteries from the transceiver when not using it for a long time. Otherwise, the installed battery pack or batteries will become exhausted, and will need to be recharged or replaced.

BATTERY CAUTIONS

 \triangle **DANGER! NEVER** short the terminals (or charging terminals) of the battery pack. Also, current may flow into nearby metal objects such as a key, so be careful when placing battery packs (or the transceiver) in bags, etc.

Simply carrying with or placing near metal objects such as a necklace, etc. may cause shorting. This may damage not only the battery pack, but also the transceiver.

 \triangle **DANGER!** Use and charge only specified loom battery packs with loom radios or loom chargers. Only loom battery packs are tested and approved for use with loom radios or charged with loom chargers. Using third-party or counterfeit battery packs may cause smoke, fire, or cause the battery to burst.

♦ Battery caution

▲ **DANGER! DO NOT** hammer or otherwise impact the battery. Do not use the battery if it has been severely impacted or dropped, or if the battery has been subjected to heavy pressure. Battery damage may not be visible on the outside of the case. Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire.

 \triangle DANGER! NEVER use or leave battery pack in areas with temperatures above +60°C (+140°F). High temperature buildup in the battery, such as could occur near fires or stoves, inside a sun heated car, or in direct sunlight may cause the battery to rupture or catch fire. Excessive temperatures may also degrade battery performance or shorten battery life. \triangle **DANGER! DO NOT** expose the battery to rain, snow, seawater, or any other liquids. Do not charge or use a wet battery. If the battery gets wet, be sure to wipe it dry before using.

 \triangle DANGER! NEVER incinerate a used battery pack since internal battery gas may cause it to rupture, or may cause an explosion.

 \triangle DANGER! NEVER solder the battery terminals, or NEVER modify the battery pack. This may cause heat generation, and the battery may burst, emit smoke or catch fire.

 \triangle **DANGER!** Use the battery only with the transceiver for which it is specified. Never use a battery with any other equipment, or for any purpose that is not specified in this instruction manual.

 \triangle **DANGER!** If fluid from inside the battery gets in your eyes, blindness can result. Rinse your eyes with clean water, without rubbing them, and see a doctor immediately.

 \triangle **WARNING!** Immediately stop using the battery if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your lcom dealer or distributor.

 \bigtriangleup WARNING! Immediately wash, using clean water, any part of the body that comes into contact with fluid from inside the battery.

BATTERY CAUTIONS

 \triangle WARNING! NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery to rupture.

CAUTION: Always use the battery within the specified temperature range, -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life.

CAUTION: Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +50°C; +122°F) for an extended period of time. If the battery must be left unused for a long time, it must be detached from the radio after discharging. You may use the battery until the battery indicator shows half-capacity, then keep it safely in a cool dry place at the following temperature range:

 $-20^{\circ}C$ ($-4^{\circ}F$) to $+50^{\circ}C$ ($+122^{\circ}F$) (within a month). $-20^{\circ}C$ ($-4^{\circ}F$) to $+35^{\circ}C$ ($+95^{\circ}F$) (within three months). $-20^{\circ}C$ ($-4^{\circ}F$) to $+20^{\circ}C$ ($+68^{\circ}F$) (within a year).

Charging caution

 \triangle DANGER! NEVER charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun-heated vehicle, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging.

 \triangle WARNING! DO NOT charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture.

▲ WARNING! NEVER insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof.

CAUTION: DO NOT charge the battery outside of the specified temperature range: $0^{\circ}C$ to $+40^{\circ}C$ ($+32^{\circ}F$ to $+104^{\circ}F$). Icom recommends charging the battery at $+25^{\circ}C$ ($+77^{\circ}F$). The battery may heat up or rupture if charged out of the specified temperature range. Additionally, battery performance or battery life may be reduced.

BE SURE to turn the transceiver power OFF while charging with the supplied BC-167S BATTERY CHARGER. The battery pack cannot be charged with the supplied BC-167S when the transceiver's power is ON.

Charging time

Charger	BC-167S	BC-202
Battery pack	(Supplied)	(Optional)
BP-271 (Supplied)	Approx. 3 hours	Approx. 2 hours
BP-272 (Optional)	Approx. 4.5 hours	Approx. 3.5 hours

IMPORTANT NOTES

When using the GPS receiver

- GPS signals cannot pass through metal objects. When using the ID-51A or ID-51E inside a vehicle, you may not receive GPS signals. We recommend you use it near a window. Please avoid the areas shown in the following:
 - 1. DO NOT use where it will block the driver's view.
 - 2. DO NOT use where the air bags could deploy.
 - 3. DO NOT use where it becomes a driving obstacle.
- The Global Positioning System (GPS) is built and operated by the U.S. Department of Defence. The Department is responsible for accuracy and maintenance of the system. Any changes by the Department may affect the accuracy and function of the GPS system.
- . When the GPS receiver is activated, please do not cover the ID-51A or ID-51E with anything that will block the satellite signals.
- The GPS receiver may not work if used in the following locations:
 - 1. Tunnels or high-rise buildings
 - 2. Underground parking lots
 - 3. Under a bridge or viaduct
 - 4. In remote forested areas
- 5. Under bad weather conditions (rainy or cloudy day)
- . The GPS receiver may not work if the transceiver operates near the 440.205 MHz. This is due to signals made in the internal circuit and does not indicate a transceiver malfunction.

Spurious signals

Depending on the combination of the operating band and mode, the Dualwatch or Triple-watch operation may generate certain spurious signals, or noise may be heard. These do not indicate a transceiver malfunction.

About charging at power ON

ID-51A/E's charging circuit charges the supplied battery pack in approximately 3 hours. But with this rapid circuit, the battery pack cannot be charged at power ON, by default. So, be sure to turn OFF the power before charging.

When "Charging (Power ON)"* is set to ON in the MENU screen, the battery pack can be charged even if the power is ON. (Only when the battery pack is attached, and the optional CP-12L, CP-19R or OPC-254L external DC power cable is connected to [DC IN].) But this operation may generate certain spurious signals; the S-meter appears, or noise may be heard.

*MENU > Function > Charging (Power ON) (Default: OFF)

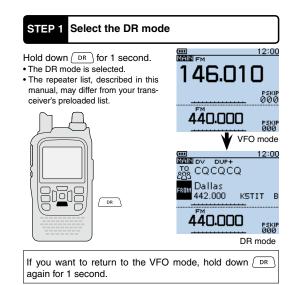
- · Charging time period at power ON may differ, depending on the operating condition.
- The external DC power supply voltage must be between 10-16 V, and the current capacity must be more than 2.5 A to charge the battery pack when operating.
- . When you operate the transceiver while charging, and if you cannot receive signals correctly, set "Charging (Power ON)"* to OFF, and disconnect the external DC power cable from [DC IN].

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ACCESS THE REPEATER

This section describes how to check whether or not you can access your local area repeater (Access repeater), and if your signal is successfully sent to a destination repeater

If your call sign (MY) has not been set, or your call sign has not been registered on a D-STAR repeater, see page 2.



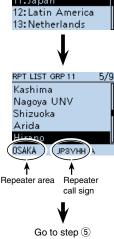
STEP 2 Select your Access repeater ("FROM") Example: Your Access repeater is Hirano/Japan in the Repeater list. ① Push D-pad(↓) to select 12:00 DUP "FROM" (Access repeater), 張 CQCQCQ and then push D-pad(Ent).)allas BDIN 42.000 KSTIT B D-pad RX+CS (Ent) ÷) cs 440.000 (11) PSKIP ØØØ "FROM" is selected. FROM SELECT 2 Push D-pad(11) to select "Re-1/1peater List," and then push Repeater List D-pad(Ent). Near Repeater

- 1/2 You have four other ways to
- select your access repeater,
- other than selecting it from re-
- peater list. See the Advanced
- Instructions for more details.
- Rotating [DIAL]
- · Searching for the nearest re-
- peaters
- Selecting from the TX History
- · Searching for a repeater us-
- ing the DR mode scan



ACCESS THE REPEATER 1

- ③ Push D-pad(11) to select the repeater group where your access repeater is listed, and then push D-pad(Ent).
 Example: "11: Japan"
 Example: "11: Japan"
 Example: "11: Japan"
- ④ Push D-pad(l1) to select your access repeater, and then push D-pad(Ent).
 • Example: "Hirano"



2/3

(5) If the selected repeater name is displayed in "FROM" on the DR mode screen, the access repeater setting is completed.



- When you select just the repeater name, the repeater call sign, its frequency, duplex setting, frequency offset and Gateway call sign are automatically set.
- The repeater list, described in this manual, may differ from your transceiver's preprogrammed list.

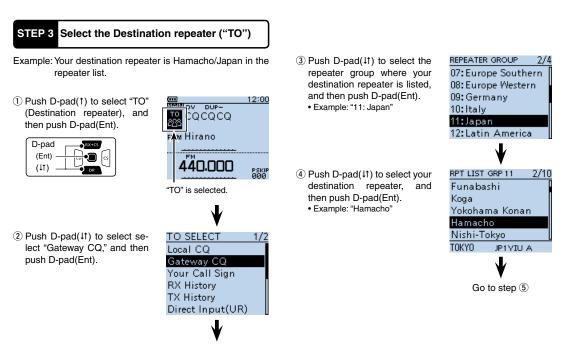
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1

ACCESS THE REPEATER

1 ACCESS THE REPEATER



Go to step ③

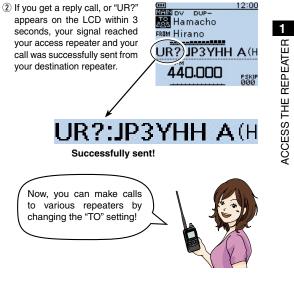
ACCESS THE REPEATER 1

(5) If the selected repeater name in step ④ is displayed in "TO" on the DR mode screen, the destination repeater setting is completed.



Go to step 2

STEP 4 Check whether you peater	a can access the re-
 Hold down [PTT] for approxi- mately 1 second to access the repeater. 	12:00
	440.000 BOOM
	Transmitting



NOTE: See page 35 for status indications after a reply is received.

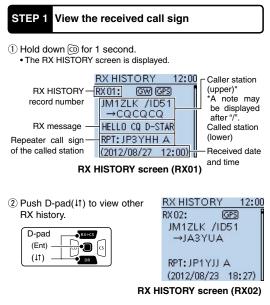
20

2 HOW TO USE THE RX HISTORY

When a DV call is received, the call signs of the caller, the called station and the called station's access repeater are stored in the RX history file. Up to 50 calls can be stored.

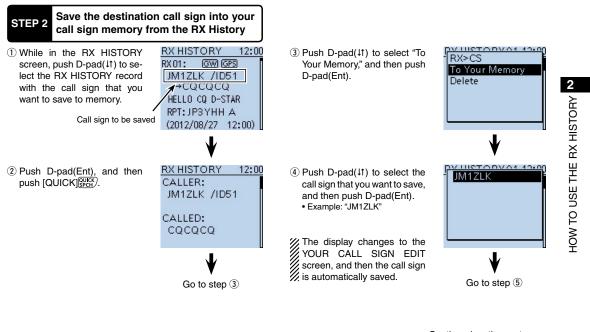
This section describes how to view the RX history screen and how to save the displayed call signs to memory.





NOTE: If you push D-pad(Ent) while in the RX HISTORY screen, the detailed contents of the RX history are displayed.

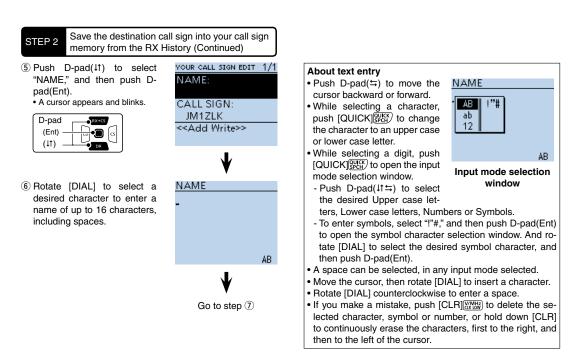
HOW TO USE THE RX HISTORY 2



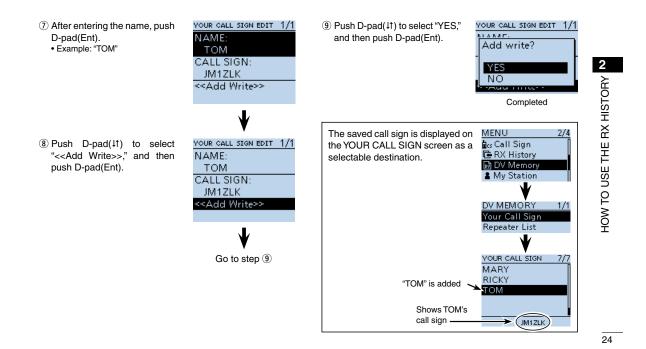
Continued on the next page

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2 HOW TO USE THE RX HISTORY



HOW TO USE THE RX HISTORY 2



3 CAPTURING A CALL SIGN

After you receive the repeater's signal, the calling station's call sign can be captured by holding down the Call Sign Capture key $(\overline{(RX+CS)})$, and you can quickly and easily reply to a received call.



✓ What is the Call Sign Capture key?? Holding down the Call Sign Capture key for 1 second sets the last received station call sign as a temporary destination, and makes replying quick and easy.



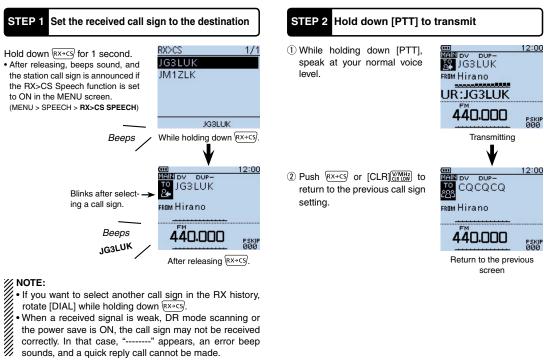
0000000000

3 CAPTURING A CALL SIGN

3

CAPTURING A CALL SIGN

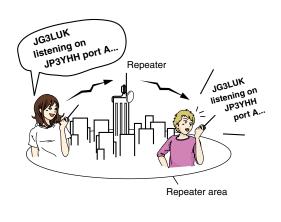
26

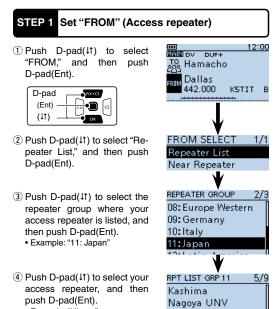


- sounds, and a quick reply call cannot be made.



A Local area call can be made when "Local CQ" is used to set "CQCQCQ" in "TO" (Destination).





Shizuoka

JPSYHH A

Arida Hirano

OSAKA

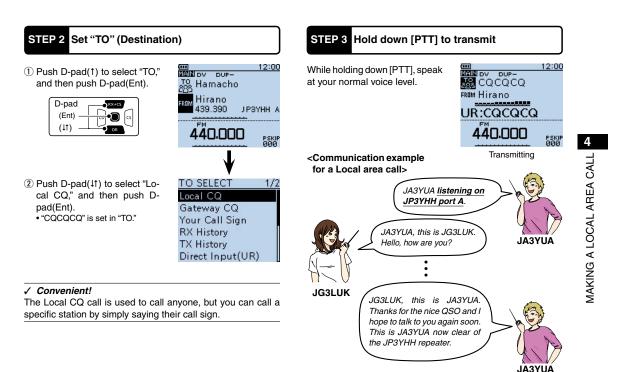
Example: "Hirano"

✓ What is a Local Area Call?? To call through your local area (access) repeater.

27

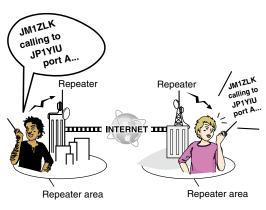
MAKING A LOCAL AREA CALL 4

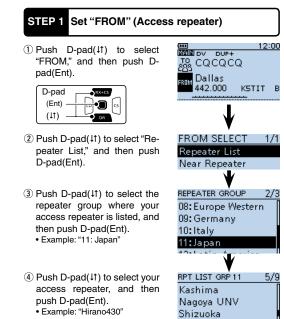
28



5 MAKING A GATEWAY CALL

A Gateway call can be made when a destination repeater is selected in "TO" (Destination).





Arida

Hirano

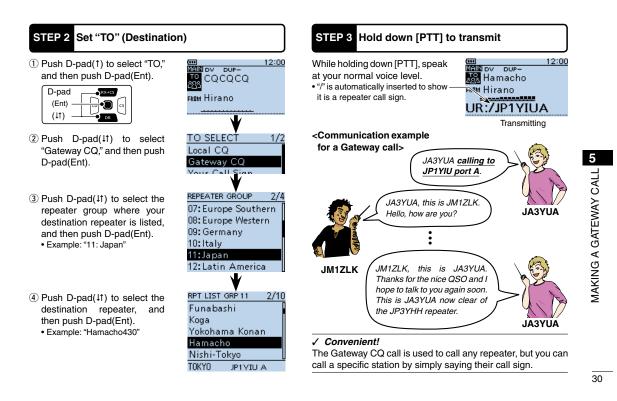
OSAKA

JPSYHH A

✓ What is a Gateway Call??

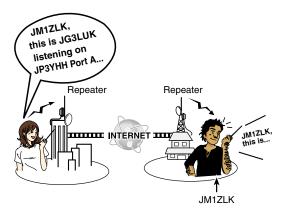
To call through your local area (access) repeater, repeater gateway, and the Internet to your destination repeater.

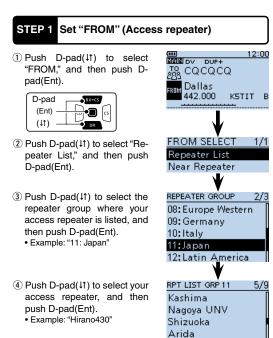
MAKING A GATEWAY CALL 5



CALLING A DESTINATION STATION

You can make a call to a destination station when the destination station call sign is selected in "TO" (Destination). When you call an individual station call sign through a gateway, the signal is automatically sent to the last repeater that the station accessed. So, even if you don't know where the station is, you can make a call using call sign routing.



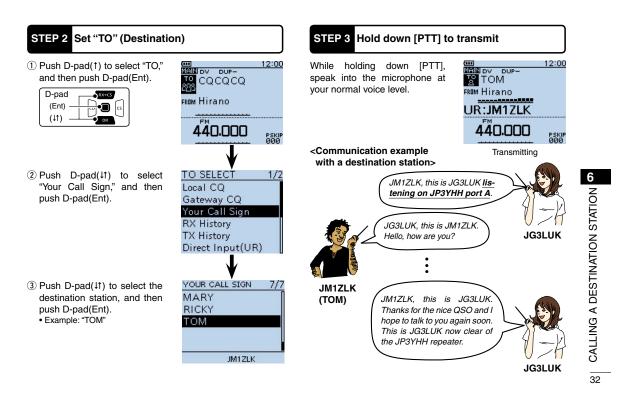


Hirano OSAKA

JPSYHH A

31

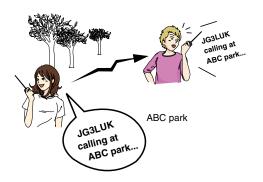
CALLING A DESTINATION STATION 6

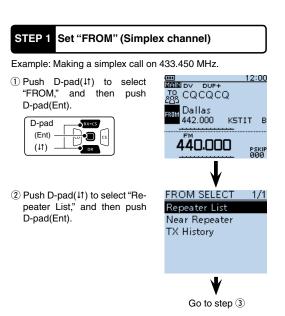


7 MAKING A SIMPLEX CALL

You can make a transceiver to transceiver call (through no repeater) in the DR mode.

NOTE: Depending on the transceiver's version, the frequencies may be different. Check for acceptable frequencies for your operating area.





✓ What is a Simplex Call??

A simplex call is a direct call to another station, not using a repeater.

7 MAKING A SIMPLEX CALL

Nov

FROM 433.450

🔣 CQCQCQ

433.000

STEP 2 Hold down [PTT] to transmit

① While holding down [PTT],

speak at your normal voice

• The TX/RX indicator lights red.

• The S/RF meter shows the

(3) Push D-pad($\downarrow\uparrow$) to select "25: Simplex," and then push Dpad(Ent).

(4) Push D-pad(\downarrow 1) to select "433.450," and then push

• "CQCQCQ" is displayed in "TO."

- If a station call sign is set in

"TO", select "Local CQ" in the

TO SELECT screen to set "TO" to "CQCQCQ."

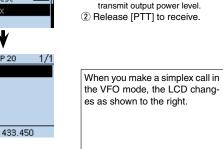
is displayed in

D-pad(Ent).

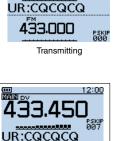
• "433.450"

"FROM."

REPEATER GROUP 3/3
14:Oceania
15:UK
16:USA Midwest
19:USA West 🛛 🛤 📾
25:Simplex
♥
RPT LIST GRP 20 1/1
433.450
438.612so



level.



12:00

NOTE: The simplex frequencies can be changed in the MENU screen. See the PDF type Advanced Instruction section 9 for more details. (MENU > DV memory > **Repeater List**)

Л

34

7

MAKING A SIMPLEX CALL

РЗКІР 000

8 TROUBLESHOOTING

To communicate through the repeater, your signal must access to the repeater. When your signal accesses your local repeater, but it is not sent to the destination repeater, the repeater replies with an status message.

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
After your call, the repeater does not return a status reply.		 Select the correct repeater. Correct the repeater frequency, frequency offset, or duplex setting. 	p. 17 —
	Your transmission did not reach the repeat- er.	 Wait until you are closer to the repeater and try again. Try to access another repeater. 	_
After your call, the repeater re- plies 'UR?' and its call sign. <u>12:00</u> Improver Its and FROM Haracho FROM Hirano	The call was successfully sent, but no station immediately replied.	Wait for a while, and try again.	_
After your call, the repeater replies 'RX' or 'RPT?' and the access repeater's call sign.	 Your own call sign (MY) has not been set. Your own call sign (MY) has not been registered on a gateway repeater, or the registered contents do not match your transceiver's setting. 	 Set your own call sign (MY). Register your own call sign (MY) on a gate- way repeater, or confirm the registration of the call sign. 	p. 2 p. 4
After your call, the repeater replies 'RPT?' and call sign of the destination repeater.	 The repeater cannot connect to the destina- tion repeater. The repeater is busy. 	Check the repeater setting.Wait for a while, and try it again.	p. 17
After your call, the access repeat- er replies 'RPT?' and its call sign.	, ,	, , , ,	_

TROUBLESHOOTING 8

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
Even holding down DR, the DR mode will not appear.	There is no repeater list in your radio.	Reload the repeater list using the CS-51 CLONING SOFTWARE on the CD. Enter the Repeater list data directly into the transceiver.	Sec. 17 of the Advanced In- struction PDF Sec. 9 of the Advanced In- struction PDF
Even holding down $(RX \rightarrow CS)$, the received call sign will not set to the destination call sign.	 The call sign has not been correctly received. When a received signal is weak, or a signal is received during scanning, the call sign may not be received correctly. In that case, "" appears and error beeps sound, and a reply call cannot be made. 	 Try it again, after the transceiver has correctly received the call sign. 	
A Local area call can be made, but the Gateway call or desti- nation station call cannot be made.	MY call sign has not been registered on a D-STAR repeater.	 Register your own call sign (MY) on a gate- way repeater, or confirm the registration of the call sign. 	p. 4
Position data cannot be re- ceived.	 "External GPS" is selected in the GPS Set item on the Menu screen, but an external GPS re- ceiver is not connected. "OFF" or "Manual" is selected in the GPS Set item on the Menu screen. A GPS signal was not received. 		
After transmitting, "L" appears on the LCD.	 While receiving through the internet, some packets may be lost due to network error (poor data throughput performance). 		_
"DV" and "FM" icons alternately blink.	While in the DV mode, an FM signal is re- ceived.	Use a different operating frequency until there are no FM signals on the original fre- quency.	—

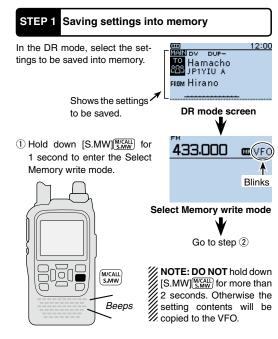
TROUBLESHOOTING

8

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9 SAVING SETTINGS

When "FROM" (Access repeater) and "TO" (Destination) settings are saved, the settings can be selected by rotating [DIAL].



Rotate [DIAL] to select a blank channel.
 When a channel that is already programed is selected, the memory name will not be programmed.

into the channel. • 3 beeps sound.

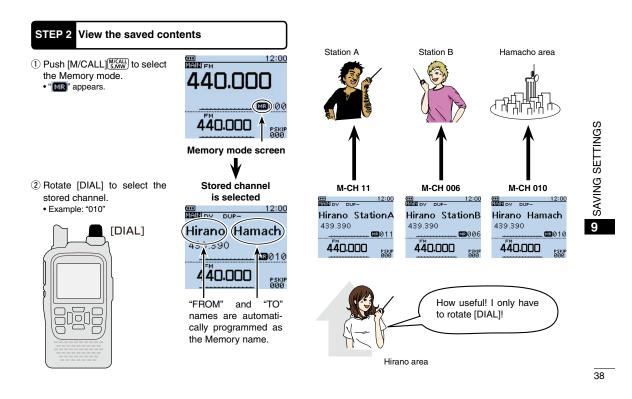
Before returning to the DR mode, the saved memory contents are briefly displayed.

"FROM" and "TO" names are automatically programmed as the Memory name. Up to 16 alphanumeric charac-

Up to 16 alphanumeric characters can be programmed for the memory name.



9 SAVING SETTINGS



i 10 **RECORDING A QSO ONTO A microSD CARD**

About using a microSD card

♦ Usable microSD cards

- A microSD or microSDHC card is not supplied with the transceiver. Please purchase a card to use. Read the instructions of the microSD card thoroughly be-fore use.

Icom has checked the compatibility of the following microSD and microSDHC cards:

· Icom does not guarantee the card's performance.

r 2012)

Maker	Kind of the card	Capacity
	microSD	2 GB
SanDisk®	4 GB 8 GB	4 GB
		8 GB
	microSDHC	16 GB
		32 GB

BE CAREFUL! While reading or writing data from or to the card; NEVER turn OFF the transceiver. It will corrupt the data or damage the card.

- Also be careful in the following cases:
- When using the transceiver with the BP-273 battery case,
- and the batteries are near exhaustion.

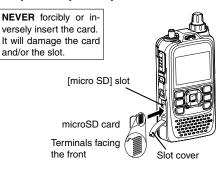
When using the transceiver with an external DC power

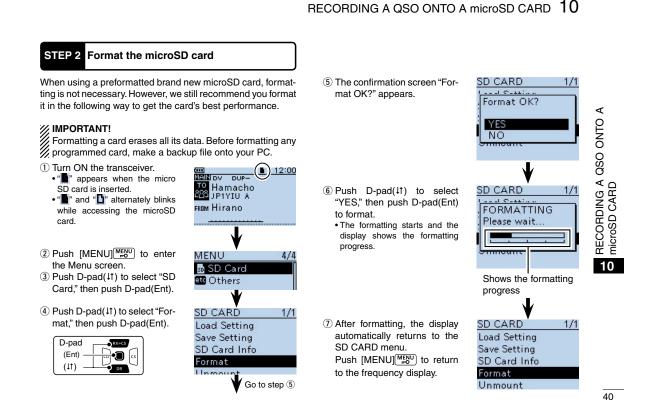
- source and the battery pack is not attached, then the ex-
- ternal power is turned OFF.

STEP 1 Inserting the microSD card

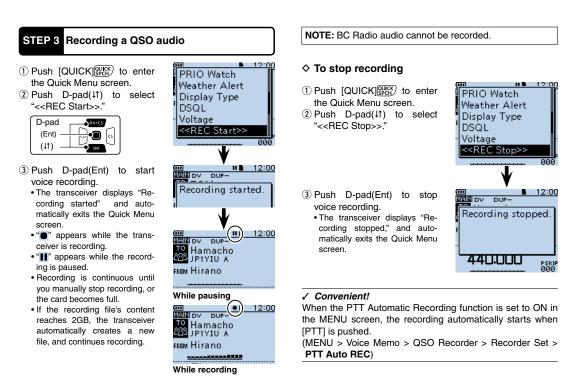
- 1) Turn OFF the transceiver.
- 2 Lift OFF the [micro SD] slot cover on the side panel.
- ③ With the terminals facing the front, insert the card into the slot until it locks in place, and makes a 'click' sound.

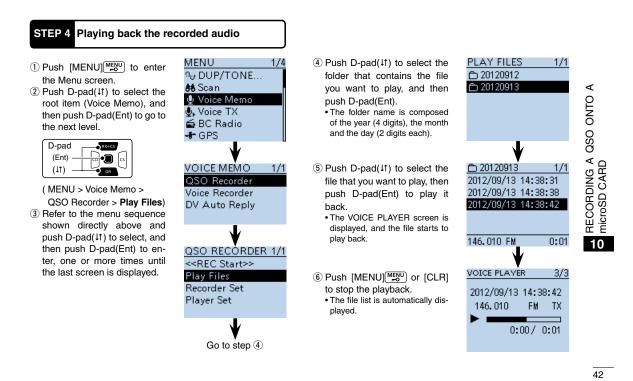
 - DO NOT touch • DO NOT touch the terminals.
 - To remove the card, push in to release it, then carefully pull out the card.
 - While reading or writing data from and to the card,
 - NEVER remove the card. It will corrupt the data or
 - damage the card.
- ④ Firmly close the [micro SD] slot cover.





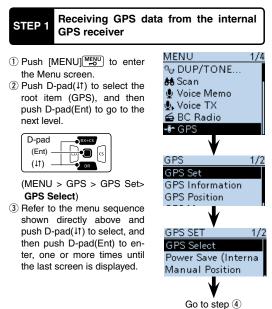
10 RECORDING A QSO ONTO A microSD CARD





11 GPS OPERATION

The ID-51A/E has a built-in internal GPS receiver. You can check your current position, or transmit GPS data in the DV mode.



See the PDF type Advanced Instruction for more details of the GPS operation.

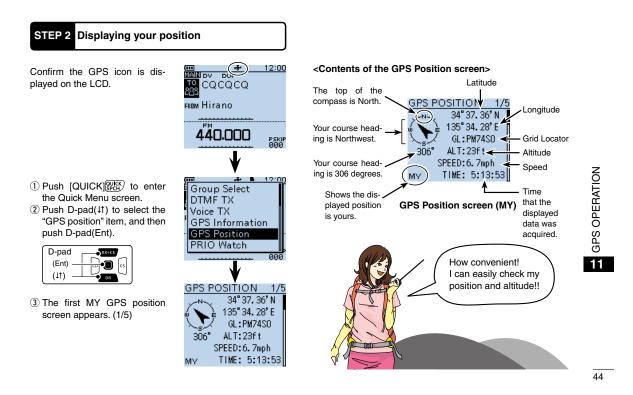
- ④ Push D-pad(↓1) to select "Internal GPS."
- ⑤ Push [MENU] MENU to exit the Menu screen.
 - The GPS icon blinks when receiving data, as illustrated below, and stops blinking when valid data is received.
 - If "Manual" was selected, the
 - icon does not appear.
 It may take only a few seconds to receive, but depending on the environment, it may take a few minutes. If you have difficulties receiving, we recommend that you try a different location.



1/1

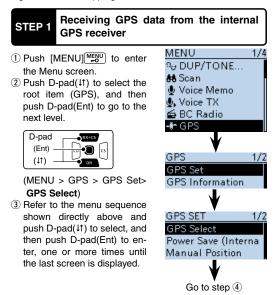
GPS Select

GPS OPERATION 11



12 GPS LOGGER FUNCTION

The GPS Logger function allows you to store the GPS position data (Latitude, Longitude, Altitude, Positioning state, Course, Speed and Date) onto a microSD card, as your route. If you use this function while driving, you can check your driving course on a mapping software.



NOTE:

The GPS logger function requires a microSD card. • See p. 39 for more details.

④ Push D-pad(11) to select "Internal GPS."

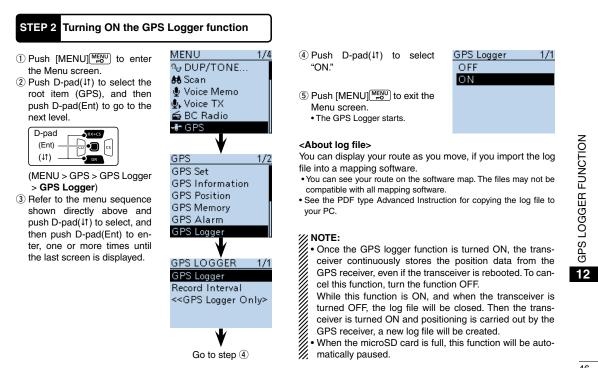
⑤ Push [MENU] MENU to exit the Menu screen.

- If "Manual" is selected, the icon

does not appear.
It may take only a few seconds to receive, but depending on the environment, it may take a few minutes. If you have difficulties receiving, we recommend that you try a different location.



GPS LOGGER FUNCTION 12



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13 INTRODUCING NEW FUNCTIONS

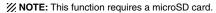
This section introduces new functions built into the ID-51A/E. · See the PDF type Advanced Instruction's for more details.

NEW! Voice Recorder function

The microphone audio can be recorded.

- Audio from an external microphone can also be recorded. · Depending on the microSD card capacity, you may continuously record up to a maximum of about 37 hours. If the file size exceeds 2 GB, a new file is automatically created in the same folder, and the recorded voice audio is saved there
- See the PDF type Advanced Instruction's Section 11 for details.



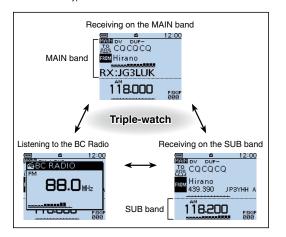


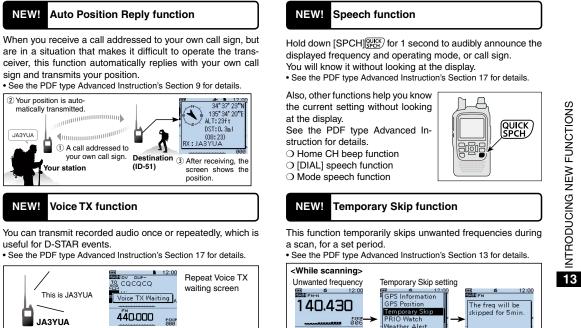
NEW! Two band monitoring plus BC Radio

When the transceiver receives 2 amateur bands on the MAIN band and SUB band, you can still listen to the Broadcast (BC) Radio.

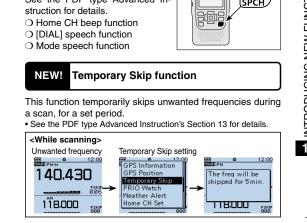
You can comfortably standby listening to the BC Radio. Also, the transceiver can be used as just a BC Radio. In this case, the other modes are in a sleep state.

· See the PDF type Advanced Instruction's Section 6 for details.





WNOTE: This function requires a microSD card.



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14 RESETTING

Resetting

The display may occasionally display erroneous information (for example when first applying power). This may be caused externally by static electricity or by other factors. If this problem occurs, turn OFF power.

After waiting a few seconds, turn ON power again. If the problem persists, perform a Partial reset or an All reset.

A Partial reset resets operating settings to their default values (VFO frequency, VFO settings, menu contents) without clearing the items below:

- Memory channel contents
- Call channel contents
- Scan Edge contents
- GPS Memory contents
- BC Radio Memory
- Call sign memories
- DTMF memory contents
- Message data
- Repeater list

BE CAREFUL! An All reset clears all programming and returns all settings to their factory defaults. See the PDF type Advanced Instruction for more details.

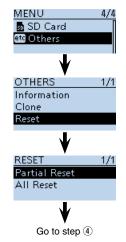
♦ Partial reset

- 1) Push [MENU] [MENU] to enter the Menu screen.
- (2) Push D-pad(\downarrow) to select the root item (Others), and then push D-pad(Ent) to go to the next level

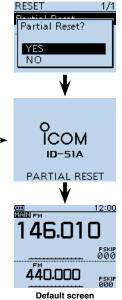


(MENU > Others > Reset > Partial Reset) ③ Refer to the menu sequence

shown directly above and push D-pad(1) to select, and then push D-pad(Ent) to enter, one or more times until the last screen is displayed.



- ④ The "Partial Reset?" dialog appears.
 ⑤ Push D-pad(¹) to select "Yes," and then push D-pad(Ent).
- The transceiver displays "PAR-TIAL RESET," then the partial reset is completed.



Shows "PARTIAL RESET" →

RESETTING

14

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15 INFORMATION

COUNTRY CODE LIST

• ISO 3166-1

190 3100-1					
	Country	Codes		Country	Codes
1	Austria	AT	18	Liechtenstein	LI
2	Belgium	BE	19	Lithuania	LT
3	Bulgaria	BG	20	Luxembourg	LU
4	Croatia	HR	21	Malta	MT
5	Czech Republic	CZ	22	Netherlands	NL
6	Cyprus	CY	23	Norway	NO
7	Denmark	DK	24	Poland	PL
8	Estonia	EE	25	Portugal	PT
9	Finland	FI	26	Romania	RO
10	France	FR	27	Slovakia	SK
11	Germany	DE	28	Slovenia	SI
12	Greece	GR	29	Spain	ES
13	Hungary	HU	30	Sweden	SE
14	Iceland	IS	31	Switzerland	CH
15	Ireland	IE	32	Turkey	TR
16	Italy	IT	33	United Kingdom	GB
17	Latvia	LV			

FCC INFORMATION

• FOR CLASS B UNINTENTIONAL RADIATORS:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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Count on us!

100 F	
#02 Europe	<intended country="" of="" use=""></intended>
	⊓IT ∎LV ■LT ■LU ■MT■NL
	■ PL ■ PT ■ SK ■ SI ■ ES ■ SE
	■ RO ■ TR ■ HR
#03 U.K.	<intended country="" of="" use=""></intended>
	□ FI □ FR □ DE □ GR □ HU ■ IE
#04 Italy	<intended country="" of="" use=""></intended>
	■IT □LV □LT □LU □MT □NL
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