

# INFORMATION

## IC-705 Version 1.40

The following features are now changed in, or added to, the IC-705.

**Added** : New functions and/or menus have been added.

**Changed** : Some operations, items, and/or options that already exist have been changed.

### Added Compatibility with microSDXC cards

A microSDXC card up to 256 GB can also be used in this transceiver. Icom has checked the compatibility with the following cards. (As of August 2025)

Brand	Type	Capacity
SanDisk®	microSD	2 GB
	microSDHC	4 GB
		8 GB
		16 GB
		32 GB
		64 GB
	microSDXC	128 GB
		256 GB

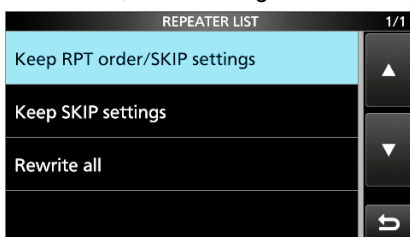
- ① Before using the card, format it using the transceiver.
- ① The performance of the cards listed above is not guaranteed.
- ① See the Basic manual for details on how to insert or remove a card and precautions.

### Added An option for the order when importing a repeater list

You can retain the existing order of your repeater list when importing a new list. This enables you to retain the order of your customized repeater list, so you no longer need to rearrange it every time you import.

**MENU** » SET > SD Card > Import/Export > Import > **Repeater List**

- When you select the CSV file you want to import into the transceiver, the following screen is displayed.



- ① The new repeater information is added at the end of each group.
- ① When an icf file is imported, the existing order cannot be retained.

### Added An option for the Digital Repeater Set

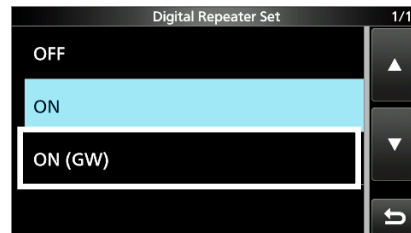
A new option for the Digital Repeater Set, "ON(GW)" is added to the Set mode.

**MENU** » SET > DV Set > **Digital Repeater Set**

#### Digital Repeater Set (Default: ON)

Turns the Digital Repeater Set function ON or OFF. When accessing a repeater that has a different call sign from the transceiver's current setting, this function can read the repeater's transmit signal and automatically enter the repeater's call signs into the transceiver.

- OFF: Turns OFF the function.
  - ON: Automatically enters the repeater call sign.
  - ON (GW): Automatically enters the repeater call sign.
- ① The gateway repeater's call sign is automatically entered into R2.



## Added Selecting an access repeater from only the near repeaters

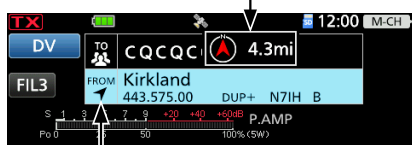
After entering an access repeater using the Near Repeater Search function on the DR screen, you can select only other near repeaters by rotating **(MAIN DIAL)** or **(MULTI)**.

① When you can select only near repeaters:

- **FROM** is displayed.
- Direction and distance from your location to the selected repeater pop up on the screen.

② To select from all repeaters, push **(QUICK)**, and then touch “<<Select from All Repeaters>>” in the QUICK MENU screen, or touch **FROM** for 1 second.

Direction and distance from your location to the repeater

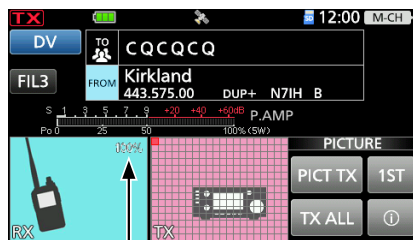


Displayed when you can select only near repeaters

## Changed Improved the Share Pictures function

- The percentage of picture data received is displayed in the upper right corner of the RX Picture zone.
- ① After the RX PICTURE screen or the RX PICTURE HISTORY screen is displayed, the percentage of picture data received is displayed for 2 seconds.
- A red frame that marks the last received block is displayed for 2 seconds.
- After finishing the transmission using the DV Fast Data function, a beep sounds.

**(MENU)** » **PICTURE**



Percentage of picture data received

## Changed Improved distance display

When the Altitude/Distance unit is set to “m,” distances less than 1 kilometer were previously displayed in meters on screens that display distance, such as the GPS POSITION screen.

Now, distances less than 10 kilometers are displayed in meters.

# INFORMATION

IC-705 Version 1.32

The following features are now changed in, or added to, the IC-705.

**Added** : New functions and/or menus have been added.

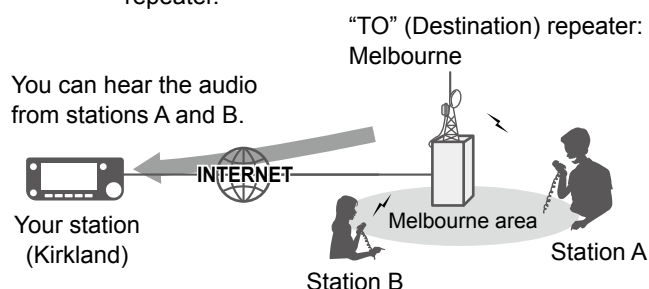
**Changed** : Some operations, items, and/or options that already exist have been changed.

## Added DV Repeater Monitor function

You can monitor a repeater that is selected in “TO” (Destination) through the Internet. While monitoring, you can receive a signal from an access repeater that is selected in “FROM.”

- ① You need a microSD card and an Internet connection to use the DV Repeater Monitor function.
- ① You can use this function while displaying the DR screen or in the Terminal mode.
- ① Some repeaters cannot be monitored.

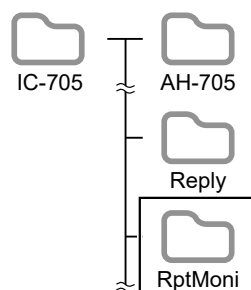
**Example:** Station A and B are communicating through a repeater.



### microSD card folder

A “RptMoni” folder is created on the microSD card. Before using the DV Repeater Monitor function, save the DV repeater IP address list file into this folder.

- ① If you have already formatted your microSD card using the earlier version transceiver, inserting the microSD card into the transceiver (version 1.32 or later) automatically creates the RptMoni folder in the IC-705 folder.



#### • RptMoni folder

To contain the DV repeater IP address list in the “csv” format.

### ◇ Monitoring a repeater

#### Step 1. Save the DV repeater’s IP address list file to the microSD card (PC)

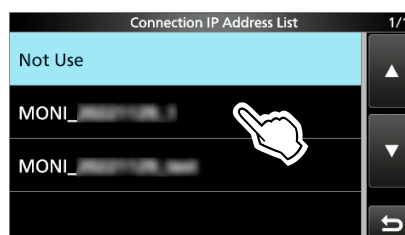
1. Download the IP address list file from the Icom website.
2. Copy a file into the “IC-705” > “RptMoni” folder on the microSD card.

#### Step 2. Select the IP address list file to use (Transceiver)

1. Insert the microSD card into the transceiver.
2. Open the “Connection IP Address List” screen.

**MENU** » SET > DV Repeater Monitor Set > Connection IP Address List

3. Touch a file to use.



4. To close the DV REPEATER MONITOR SET screen, push **EXIT** several times.

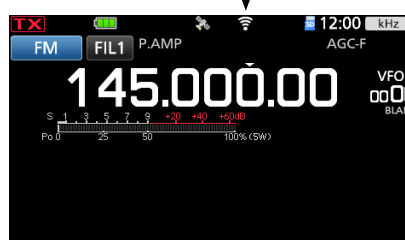
#### Step 3. Connect to the Internet (Transceiver)

Connect the transceiver (Station) to a Wireless Access Point.

**MENU** » SET > WLAN Set

- ① See Section 11 of the IC-705 Advanced Manual for details.

While connected to a wireless network, is displayed.

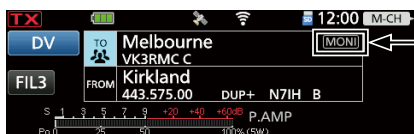


## Added DV Repeater Monitor function

### ◇ Monitoring a repeater

#### Step 4. Set "TO" (Destination repeater) (Transceiver)

1. Hold down **DR** for 1 second to display the DR screen.
2. Touch "FROM" to set your access repeater.
3. Touch "TO" to set a repeater that you want to monitor.
4. Confirm the "MONI" icon is displayed.



Displayed if the repeater can be monitored.

- ① The "MONI" icon is not displayed when:
- The transceiver is not connected to the Internet.
  - The IP address list file is not selected.
  - The selected repeater's call sign and IP address (or domain name) are not included in the IP address list file.

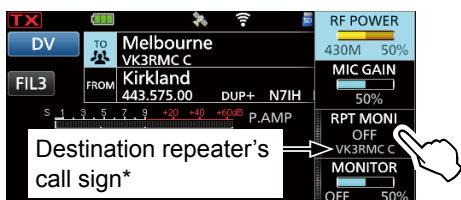
**TIP:** When using the Terminal mode, open the DV GATEWAY screen, and then touch "<<Terminal Mode>>."

**MENU** » **DV GW**

- ① See Section 15 of the IC-705 Advanced Manual for details.  
① When using the External Gateway function, you cannot monitor the repeater.

#### Step 5. Turn ON the DV Repeater Monitor function (Transceiver)

1. Push **MULTI**.
2. Touch [RPT MONI] to turn ON this function.



- \* The call sign is not displayed when you select a repeater that cannot be monitored.
- Starts connecting to the destination repeater through the Internet.
  - When using this function, the "MONI" icon displays the status.

Icon	Status
	The repeater can be monitored, but no connection
	Connected to the repeater
	Outputting the monitoring audio
	Muting the monitoring audio (For example, while receiving a signal from your access repeater that is selected in "FROM.")

- ① Touching [RPT MONI] turns this function ON or OFF.  
① This function is not turned OFF even if you change the destination repeater.  
① The "MONI" icon may not change, depending on the repeater settings.

### ◇ RX HISTORY screen

On the RX HISTORY screen, "MONI" is displayed when the signal is received using the DV Repeater Monitor function.

### ◇ GPS POSITION (RX) screen

On the GPS POSITION (RX) screen, "MONI" is displayed when the signal is received using the DV Repeater Monitor function.

### ◇ QSO Log/RX History Log

"MONI" is displayed when the signal is received using the DV Repeater Monitor function in "Type."

### ◇ Voice Recorder function

On the VOICE PLAYER screen and the FILE INFORMATION screen, "MONI" is displayed when the signal is received using the DV Repeater Monitor function.

## Changed Set mode

The following item is added to the Set mode.

### ◇ DV Repeater Monitor Set

#### Connection IP Address List

Selects the DV repeater's IP address list file to use when the DV Repeater Monitor function is turned ON. The files that is saved into the "IC-705" > "RptMoni" folder on the microSD card is displayed.

- ① If you do not use the file, select "Not Use."  
① After changing the file name, select again.

## Changed Terminal/AP Call sign

The Terminal/AP Call sign setting can be registered call signs where the seventh character is not blank.

**MENU** » DV GW > Internal Gateway Settings > **Terminal/AP Call sign**

## Changed CI-V commands

The following command is added to the conventional Command table.

Cmd.	Sub cmd.	Data	Description
1A*	0C	00/01	Send/read the RPT MONI setting (00=OFF, 01=ON)

\*(Asterisk) Send/read data

# INFORMATION

IC-705 Version 1.30

The following features are now changed in, or added to, the IC-705.

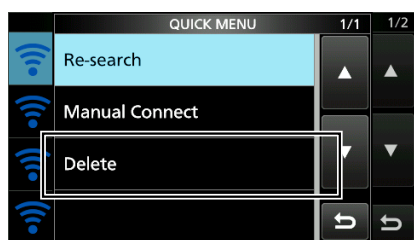
**Added** : New functions and/or menus have been added.

**Changed** : Some operations, items, and/or options that already exist have been changed.

## Changed Wireless LAN operation

On the ACCESS POINT screen, “Delete” is added on QUICK MENU. You can delete an Access Point that is connected or saved.

**MENU** » SET > WLAN Set >  
Connection Settings (Station) > **Access Point**



## Changed RX HISTORY screen

On the RX HISTORY screen, the icon that shows how the signal is received is added.

- “TM” is displayed when the signal is received in the Terminal mode.
- No icon is displayed when the signal is received in the normal mode (RF).

## Changed GPS POSITION (RX) screen

On the GPS POSITION (RX) screen, the icon that shows how the signal is received is added.

- “TM” is displayed when the signal is received in the Terminal mode.
- No icon is displayed when the signal is received in the normal mode (RF).

## Changed QSO Log/RX History Log

“Type” that shows how the signal is received or transmitted is added to the log contents.

- “TM” is displayed when the signal is received or transmitted in the Terminal mode.
- “RF” is displayed when the signal is received or transmitted in the normal mode (RF).

## Changed Voice Recorder function

On the VOICE PLAYER screen and the FILE INFORMATION screen, the icon that shows how the signal is received or transmitted is added.

- “TM” is displayed when the signal is received or transmitted in the Terminal mode.
- No icon is displayed when the signal is received or transmitted in the normal mode (RF).

## Changed CI-V commands

The following command format is changed.

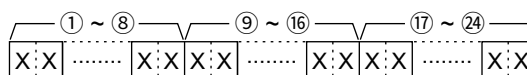
### • DV TX call signs setting (24 characters or 8 characters)

Command: 1F 01

Set “UR,” “R1,” and “R2” call signs of 8 characters (fixed), or only the “UR” call sign.

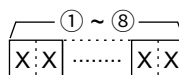
See “Character code of the call sign.”

### When setting “UR,” “R1,” and “R2” call signs



- ① ~ ⑧: UR (Destination) call sign setting (8 characters)
- ⑨ ~ ⑰: R1 (Access/Area repeater) call sign setting (8 characters)
- ⑱ ~ ⑳: R2 (Link/Gateway repeater) call sign setting (8 characters)

### When setting only the “UR” call sign



- ① ~ ⑧: UR (Destination) call sign setting (8 characters)

### Character code of the call sign

Character	ASCII code
0 ~ 9	30 ~ 39
A ~ Z	41 ~ 5A
(Space)	20
/	2F

# INFORMATION

## IC-705 Version 1.20

The following features are now changed in, or added to, the IC-705.

**Added** : New functions and/or menus have been added.

**Changed** : Some operations, items, and/or options that already exist have been changed.

<b>Changed</b>	Scope operation.....	1	<b>Changed</b>	Set mode.....	6
<b>Added</b>	PRESET menu .....	2	<b>Changed</b>	Latitude/Longitude unit .....	7
<b>Added</b>	About an antenna tuner .....	3	<b>Changed</b>	Tone Control settings in the Data mode.....	7
<b>Added</b>	WLAN (Access point) operation .....	4	<b>Changed</b>	CI-V commands .....	8
<b>Added</b>	Custom key on the front panel .....	5			
<b>Changed</b>	Remote MIC key and VS-3's Custom key functions .....	6			

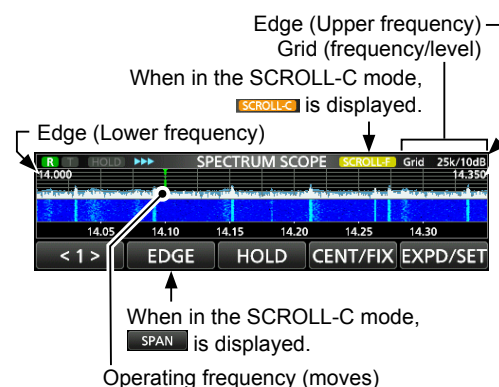
## Changed Scope operation

- The Scroll mode is added.
- When the scope span or Edge frequency is changed, such as by touching [SPAN] or [EDGE], the selected scope span or the selected Edge frequency display is enlarged.
- In the SCOPE SET menu, "Marker Position (FIX Type)" is renamed to "Marker Position (FIX Type/ SCROLL Type)."
- The maximum number of Fixed Edges for each band is increased from 3 to 4.

### ◇ Scroll mode

Displays signals within a selected span. When the operating frequency moves outside of the screen, the displayed frequency range is automatically scrolled.

1. Display the SPECTRUM SCOPE screen.  
**[MENU] » [SCOPE]**
2. Touch [CENT/FIX] for 1 second to select the Scroll mode.
  - When changing the Center mode to the Scroll mode, "SCROLL-C" is displayed.
  - You can change the scope span by touching [SPAN].
  - When changing the Fixed mode to the Scroll mode, "SCROLL-F" is displayed.
  - You can change the Edge frequencies by touching [EDGE].
3. Touch [CENT/FIX] to return to the previous mode.
  - When returning to the Center mode, the scope span does not return to the previous setting.
  - When returning to the Fixed mode, the Edge frequencies return to the last selected "Fixed Edges."
  - If the operating frequency is above the upper Edge frequency, or below the lower Edge frequency, "<<" or ">>" is displayed in the upper side corners of the SPECTRUM SCOPE screen.





## Added PRESET menu

[PRESET] is added to the MENU screen.

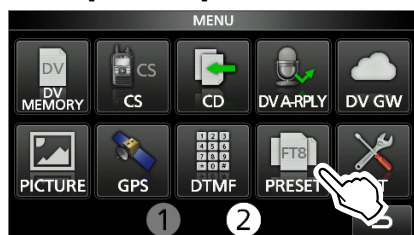
You can save the combination of the following settings for the data mode to quickly change the settings, depending on your operating needs.

Preset Name	SSB-D TX Bandwidth
Mode	DATA OFF MOD
Filter	COMP
Filter BW	SSB TBW
Filter Type (HF)	SSB TX Bandwidth
Filter Type (50M - )	USB SEND
USB Output Select	USB Keying (CW)
USB AF Output Level	USB Keying (RTTY)
USB AF SQL	CI-V Address
USB IF Output Level	CI-V Transceive
USB MOD Level	CI-V USB Echo Back
DATA MOD	

① The transceiver has a total of 5 memories.

## ◇ Loading the preset memory

1. Push **[MENU]**.
2. Touch ② at the center bottom of the screen.
3. Touch **[PRESET]**.



4. Touch the preset memory to load.
  5. Touch **[YES]**.
    - The selected preset memory is loaded, and "In Use" is displayed on the PRESET screen. If you change the transceiver settings, and they do not match the contents of the preset memory, "In Use" disappears.
- ① Touching **[UNLOAD]** returns the transceiver settings to those set before loading the preset memory.

**NOTE:** You cannot load the preset memory content when:

- You select a blank memory.
- Transmitting in the DV mode.
- The DR function is ON.
- The DV Gateway function is ON.
- The transceiver is in the WX mode. (For only the USA version)

## ◇ Editing the memory contents

**NOTE:** You cannot edit the preset memory that is in use. To edit it, first touch **[UNLOAD]**, and then edit the memory.

1. On the PRESET screen, touch a preset memory to edit for 1 second.
  - Opens the QUICK MENU screen.
2. Touch "Edit the Preset Memory."
  - ① When touching "Save to the Preset Memory," all of the contents are set to the current settings before editing.
3. Touch the check box to select whether or not to load the item.
  - "✓" is displayed on the left side of the loading item.
4. Touch the item name, and then touch the option to set.
5. Repeat steps 3 and 4 to edit the preset memory.
6. Touch "<<Write>>."
7. Touch **[YES]**.

**TIP:** Depending on your software, you may need to change the "CI-V Address" setting.

For example, you use a software that is not compatible with the IC-705. In that case, you may be able to use the software by setting "CI-V Address" to another transceiver's address.

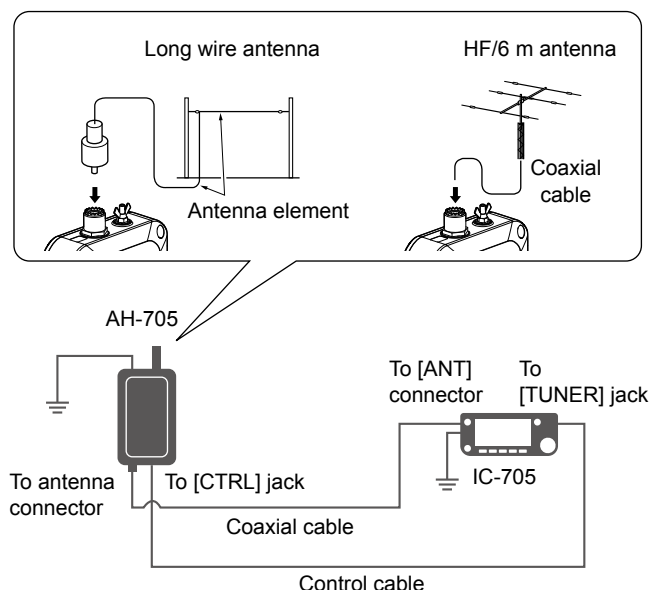
## Added About an antenna tuner

The optional AH-705 AUTOMATIC ANTENNA TUNER can also match the IC-705 to a long wire antenna.

- 1.8 MHz band:  
with an antenna longer than 30 m, 98.4 ft
- 3.5 MHz band and above:  
with an antenna longer than 7 m, 23 ft

① See the AH-705 instruction manual for installation and connection details.

① When you use a non-Icom external antenna tuner, see the antenna tuner's instruction manual for details.



**⚠ DANGER HIGH VOLTAGE! NEVER** touch the antenna element while tuning or transmitting. Always install the antenna element in a secure place.

### NOTE:

- Before connecting the cables, be sure to turn OFF the transceiver.
- **NEVER** use the antenna tuner without an antenna connected. The tuner and transceiver will be damaged.
- When a wire antenna cannot be tuned, check the wire length and connection.  
The AH-705 cannot tune a wire that is a  $\frac{1}{2}\lambda$  long or on a multiple of that frequency.
- The AH-705 uses latching relays with low power consumption. The latching relays themselves memorize the operating state, but they may not hold the settings after a strong impact to the tuner. If the SWR significantly changes during operation, retune the antenna.

## ◇ Using the antenna tuner

- ① The [TUNER] button operation to turn the antenna tuner ON or OFF in the FUNCTION screen is changed from touching for 1 second to touching briefly.
1. Connect the tuner to the transceiver.
2. Turn ON the transceiver.
3. Select the desired operating frequency.
4. Push **[FUNCTION]**.
5. Touch ② at the center bottom of the screen.
6. Touch [TUNER].
  - The transceiver automatically starts transmitting and tuning. The tuner reduces the SWR to less than 2:1 after 2 ~ 3 seconds of tuning.
  - ① While tuning, a side tone is heard, and "TUNE" blinks.
  - ① Touching [TUNER] turns the antenna tuner ON or OFF (bypassed).
7. After tuning, "TUNE" is displayed.
  - ① If the tuner cannot reduce the SWR to less than 2:1 after 15 seconds of tuning, the indicator goes out.
  - ① When a long wire antenna cannot be tuned, the indicator goes out. In that case, the tuner is bypassed, and the wire is directly connected.
  - ① To manually tune the antenna, touch [TUNER] for 1 second.

## ◇ PTT tune function

The PTT tune function activates the "tune" function when the transceiver is transmitting on a new frequency.\*

This function can be set to ON or OFF. (Default: ON)

**[MENU] » [SET > Function > Tuner > PTT Start]**

- \* 1.8 ~ 10 MHz band: Changed more than 0.5%
- 14 ~ 50 MHz band: Changed more than 1%

**TIP:** Even if the tuner cannot tune the antenna on the first attempt, it may succeed by repeating the tuning several times.

## ◇ Tune memory function

The Tune Memory function saves the latching relay combination for quicker antenna tuning.

This function can be set to ON or OFF. (Default: ON)

**[MENU] » [SET > Function > Tuner > AH-705 > Tune Memory]**

- ① If the Tune Memory function is OFF, it may take more time to tune the antenna, but the SWR may become a lower value.
- ① To clear the memories, select "<<Tune Memory Clear>>".

**[MENU] » [SET > Function > Tuner > AH-705 > <<Tune Memory Clear>>]**

**TIP:** If the operating environment is changed, such as changing the length of the wire antenna, clearing the memories may make tuning quicker.

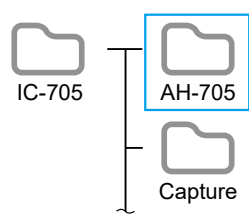


## Added About an antenna tuner

### ◇ Updating the AH-705's firmware

You can update the AH-705's firmware by using the transceiver. And to use this function, an "AH-705" folder is added on the microSD card.

- ① If you have already formatted your microSD card using the earlier version transceiver, inserting the microSD card into the transceiver (version 1.20 or later) automatically creates the AH-705 folder in the IC-705 folder.



- **AH-705 folder**  
The AH-705's firmware data in the "dat" format

**IMPORTANT:** To update the firmware, first format your microSD card using the IC-705.

**CAUTION: NEVER** turn OFF either the transceiver or the antenna tuner, or disconnect the cables while updating the firmware. If you turn OFF the transceiver or the antenna tuner, or disconnect the cables, or if a power failure occurs while updating, the antenna tuner's firmware will be damaged, and you will have to send the tuner back to the nearest Icom distributor for repair. This type of repair is out of warranty, even if the tuner warranty period is still valid.

#### Recommendation!

Fully charging of the transceiver's battery pack and attaching the batteries with sufficient capacity to the antenna tuner before starting the firmware update, or using the external power source is strongly recommended.

This is to avoid failure during the update, caused by an unexpected power failure.

1. Access the following URL and download the firmware file.  
<https://www.icomjapan.com/support/>
2. Unzip the downloaded firmware folder.
3. Copy the firmware data into the "IC-705" > "AH-705" folder on to a microSD card.
4. Insert the microSD card into the transceiver.
5. Display the FIRMWARE UPDATE (AH-705) screen.  
**MENU** » **SET > SD Card > Firmware Update (AH-705)**
6. After you read and agree with all the precautions, touch [YES].
7. Touch the firmware file.
8. After you read and agree with all the precautions, touch [YES] for 1 second.
9. When the update is completed, "Firmware updating has completed." is displayed in the dialog.
  - The transceiver and the antenna tuner will automatically restart.

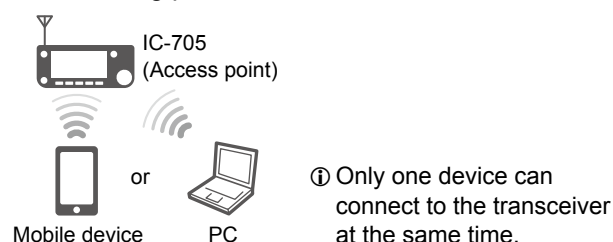
## Added WLAN (Access point) operation

You can use the transceiver as a Wireless LAN (WLAN) access point. When turning ON the WLAN (Access point) function, your PC or mobile device can directly connect to the transceiver for:

- Outputting the demodulated AF signal or 12 kHz IF signal, by using the optional RS-BA1's Remote Utility.
- ① You can set the output signal to AF or IF signals.

**MENU** » **SET > Connectors > WLAN AF/IF Output > Output Select**

- Remote control using the optional RS-BA1 software application.
- Transferring pictures from a PC or a mobile device.




**NOTE:** You cannot connect to the Internet through the IC-705.

### ◇ Connecting a device to a transceiver (Access point)

#### Step 1. Setting the "WLAN set" items (Transceiver)

Before using the WLAN (Access point) function for the first time, you must set a password.

1. Turn OFF the WLAN function.  
**MENU** » **SET > WLAN Set > WLAN**
2. Set "Connection Type" to "Access Point (Connect to Phone, PC)."  
**MENU** » **SET > WLAN Set > Connection Type**
3. Open the CONNECTION SETTINGS (ACCESS POINT) screen, and set each item.  
**MENU** » **SET > WLAN Set > Connection Settings (Access Point)**
  - ① See page 7 for each item's details.
  - ① You must set "Password."
4. Turn ON the WLAN function.
  - While the WLAN (Access point) function is ON,  is displayed.
  - ① If no device connects to the transceiver during the set period of time in the "Inactivity WLAN OFF Timer," the WLAN function is turned OFF. (Default: 20min)
  - ① Once you set a password, you do not need to turn OFF the WLAN function to change "Connection Type."

#### Step 2. Connecting to the transceiver (PC, mobile device)

1. Turn ON the WLAN function.
2. Select the transceiver's SSID from the network list. (Default: IC-705)
3. If a password is required, enter the password.

## Added Custom key on the front panel

You can change the **VOX** / **BK-IN** and **AUTOTUNE/RX>CS** keys function.

**MENU** » **SET > Function > Front Key Customize**

**[VOX/BK-IN]** (Default: VOX/BK-IN)

Function	Description
TRANSMIT	Push to toggle between transmit and receive.
TUNER	<ul style="list-style-type: none"> <li>• Push to turn the antenna tuner ON or OFF.</li> <li>• While "TUNE" is displayed, hold down for 1 second to start manual tuning.</li> </ul>
VOX/BK-IN*	Push to turn the VOX function in the Voice operation modes and the Break-in function in the CW mode ON or OFF.
P.AMP/ATT	<ul style="list-style-type: none"> <li>• Push to turn ON or OFF, and select one of two receive RF preamplifiers.</li> <li>• In the HF or 50 MHz band, hold down for 1 second to turn the Attenuator ON or OFF.</li> </ul>
NOTCH*	Push to turn the Notch function ON or OFF, and select the Notch function type.
NB*	Push to turn the Noise Blanker ON or OFF.
NR*	Push to turn the Noise Reduction function ON or OFF.
SPLIT	<ul style="list-style-type: none"> <li>• Push to turn the Split function ON or OFF.</li> <li>• Hold down for 1 second to turn ON the Quick Split function.</li> </ul>
A/B	<ul style="list-style-type: none"> <li>• Push to select the VFO A or VFO B.</li> <li>• Hold down for 1 second to set the displayed VFO's frequency to the VFO that is not displayed.</li> </ul>
VFO/MEMO	<ul style="list-style-type: none"> <li>• Push to select the VFO mode and the Memory mode.</li> <li>• Hold down for 1 second to copy the Memory channel contents to the VFO.</li> </ul>
CD	Push to open the received call history.
PRESET	Push to open the PRESET screen.

Function	Description
Home CH	Push to directly select the Home Channel that is set to the selected mode (VFO/Memory) or DR screen. ① While in the Call channel mode, or when no Home CH is set, an error beep sounds.
Temporary Skip	Push to set the frequency to be skipped while scanning. The selected frequencies are temporarily skipped for faster scanning.
Voice/Keyer/RTTY Memory 1	<b>In the SSB, AM, FM, or DV mode</b> <ul style="list-style-type: none"> <li>• Push to transmit the voice audio recorded on the microSD card once.</li> <li>• Hold down for 1 second to repeatedly transmit the voice audio.</li> </ul> ① This key function can also be used on the DR screen. ① If the voice audio is not saved in the Voice TX memory (T1 ~ T4), this function is disabled. <b>In the CW mode</b> <ul style="list-style-type: none"> <li>• Push to transmit the Keyer memory content once.</li> <li>• Hold down for 1 second to repeatedly transmit the memory content.</li> </ul> ① If the Keyer memory content (M1 ~ M4) is not entered, this function is disabled. <b>In the RTTY mode</b> Push to transmit the RTTY memory content once. ① If the RTTY memory content (RT1 ~ RT4) is not entered, this function is disabled.
Voice/Keyer/RTTY Memory 2	
Voice/Keyer/RTTY Memory 3	
Voice/Keyer/RTTY Memory 4	

\* Hold down for 1 second to open its function menu.

**[AUTOTUNE/RX>CS]** (Default: AUTOTUNE/RX>CS)

Function	Description
AUTOTUNE/RX>CS	<b>In the CW mode</b> Push to automatically tune the operating frequency to a close-by CW signal. <b>In the DV mode</b> <ul style="list-style-type: none"> <li>• Push to display the RX History list.</li> <li>• Hold down for 1 second to capture the latest received call sign (station or repeater) as a temporary call destination.</li> </ul>
CD/RX>CS	<ul style="list-style-type: none"> <li>• Push to open the received call history.</li> <li>• In the DV mode, hold down for 1 second to display the RX History list.</li> </ul>
PRESET/RX>CS	<ul style="list-style-type: none"> <li>• Push to open the PRESET screen.</li> <li>• In the DV mode, hold down for 1 second to display the RX History list.</li> </ul>

Function	Description
Home CH/RX>CS	<ul style="list-style-type: none"> <li>• Push to directly select the Home Channel that is set to the selected mode (VFO/Memory) or DR screen.</li> <li>① While in the Call channel mode, or when no Home CH is set, an error beep sounds.</li> <li>• In the DV mode, hold down for 1 second to display the RX History list.</li> </ul>
Temporary Skip/RX>CS	<ul style="list-style-type: none"> <li>• Push to set the frequency to be skipped while scanning. The selected frequencies are temporarily skipped for faster scanning.</li> <li>• In the DV mode, hold down for 1 second to display the RX History list.</li> </ul>

## Changed Remote MIC key and VS-3's Custom key functions

The assignable functions are changed, or added.

- “Voice TX” (T1/T2) and “Keyer Memory” (M1/M2) are changed to “Voice/Keyer/RTTY Memory” (1 ~ 4).
- “TUNER” is added.

**MENU** » SET > Function > **Remote MIC Key**

**MENU** » SET > Bluetooth Set > Headset Set > Icom Headset > **Custom Key**

Function	Description
Voice/Keyer/RTTY Memory 1	<b>In the SSB, AM, FM, or DV mode</b> <ul style="list-style-type: none"> <li>• Push to transmit the voice audio recorded on the microSD card once.</li> <li>• Hold down for 1 second to repeatedly transmit the voice audio.</li> </ul>
Voice/Keyer/RTTY Memory 2	① This key function can also be used on the DR screen. ① If the voice audio is not saved in the Voice TX memory (T1 ~ T4), this function is disabled.
Voice/Keyer/RTTY Memory 3	<b>In the CW mode</b> <ul style="list-style-type: none"> <li>• Push to transmit the Keyer memory content once.</li> <li>• Hold down for 1 second to repeatedly transmit the memory content.</li> </ul> ① If the Keyer memory content (M1 ~ M4) is not entered, this function is disabled.
Voice/Keyer/RTTY Memory 4	<b>In the RTTY mode</b> Push to transmit the RTTY memory content once. ① If the RTTY memory content (RT1 ~ RT4) is not entered, this function is disabled.
TUNER	<ul style="list-style-type: none"> <li>• Push to turn the antenna tuner ON or OFF.</li> <li>• While “TUNE” is displayed, hold down for 1 second to start manual tuning.</li> </ul>

**NOTE:** If you set any keys to “Voice TX” (T1/T2) or “Keyer Memory” (M1/M2), they are automatically changed to the “Voice/Keyer/RTTY Memory” (1/2) after updating. Note that these keys work in almost all modes.

## Changed Set mode

**NOTE:** The “Battery Pack Confirmation” item is returned to “OFF” after updating.

**MENU** » SET > Function > **Battery Pack Confirmation**

### ◇ Function

The “Tuner” item is added.

**MENU** » SET > Function > **Tuner**

“Tuner (PTT Start)” is renamed to “PTT Start,” and moved into the “Tuner” item.  
 The “Tuner Select” and “AH-705” settings are added to the “Tuner” item.

#### **Tuner Select** (Default: AH-705)

Selects the antenna tuner type to be connected.

① To use the Tune Memory function, select “AH-705.”

① When this item is set to “AH-705,” the transmit power is set to 5 watts while tuning, regardless of the transmit power setting.

**MENU** » SET > Function > Tuner > **AH-705**

#### **Tune Memory** (Default: ON)

Selects whether or not to use the Tune Memory function. The Tune Memory function saves the latching relay combination for quicker antenna tuning.

① To use the Tune Memory function, set “Tuner Select” to “AH-705.”

#### **<<Tune Memory Clear>>**

Clears all of the antenna tuner’s tune memories.

### ◇ Time Set

**MENU** » SET > Time Set > **Date/Time**

#### **Date**

The settable range is changed to between 2020/01/01 and 2099/12/31.

Changed Set mode

## ◇WLAN Set

The "Connection Type" item is added.  
Depending on the "Connection Type" setting, "Connection Settings" is changed to "Connection Settings (Station)" or "Connection Settings (Access Point)."

- ① The settings in "Connection Settings (Station)" are the same as in the previous "Connection Settings."
- ① The maximum number of characters in the Password setting is decreased from 64 to 63 characters.

**MENU** » **SET > WLAN Set**

### Connection Type

(Default: Station (Connect to Network))

Selects the WLAN connection type.

- Station (Connect to Network):  
Sets to connect to the network.
- Access Point (Connect to Phone, PC):  
Sets to directly connect to a mobile device.

**MENU** » **SET > WLAN Set > Connection Settings (Access Point)**

### SSID (Default: IC-705)

Enter an SSID of up to 32 characters.

- ① You cannot change this setting while the WLAN function is ON.

### Password

Enter a password to connect to the transceiver from another device.

- ① The password should be 8 ~ 63 characters long.
- ① You cannot change this setting while the WLAN function is ON.

### Inactivity WLAN OFF Timer (Default: 20min)

Selects whether or not to automatically turn OFF the WLAN function. When this function is ON, and no device connects to the transceiver, the WLAN function is turned OFF after this set period of time.

- ① This function is disabled when using an external power source, or "Connection Type" is set to "Station (Connect to Network)."
- OFF: Does not turn OFF the WLAN function.
- 5/10/20/30/60min:  
Turns OFF the WLAN function after this set period of time.

### IP Address (Default: 192.168.59.1 (Fixed))

Displays the transceiver's IP address.

- ① You cannot change the IP address.

## ◇SD Card

The "Save Form" and "Firmware Update (AH-705)" items are added.

**MENU** » **SET > SD Card**

### Save Form (Default: Now Ver)

Selects the format to save the settings to a microSD card.

- Now Ver: Saves the settings in the current version format.
- Old Ver (x.xx - x.xx):  
Saves the settings in an older version format indicated in the parenthesis (x.xx = version).

- ① If you select "Old Ver (x.xx - x.xx)," a function that is added when the transceiver's firmware format is updated will not be saved.
- ① You cannot load a setting file that is saved in the current version format to an earlier firmware version.

### Firmware Update (AH-705)

Displays the AH-705's Firmware Update mode.

## Changed Latitude/Longitude unit

"ddd.dddd°" is added to Latitude/Longitude unit setting.

**MENU** » **SET > Display > Display Unit > Latitude/Longitude**

When the Latitude/Longitude unit is set to "ddd.dddd°," "Alarm Area (Group)" is set to between 0.0014° and 0.9999° (0.0001° steps).

**MENU** » **GPS > GPS Alarm > Alarm Area (Group)**

## Changed Tone Control settings in the Data mode

In the Data mode, the Tone Control settings are automatically disabled.

**MENU** » **SET > Tone Control/TBW > RX**

- RX HPF/LPF (Default: - - - - -)
- RX Bass (Default: 0)
- RX Treble (Default: 0)

## Changed CI-V commands

The following commands are changed in, or added to the conventional Command table.

Cmd.	Sub cmd.	Data	Description
1A*	05	<b>SET &gt; Display</b>	
		0156 00 ~ 02	Display Unit > Send/read the Latitude/Longitude setting (00=ddd°mm.mm', 01=ddd°mm'ss" 02=ddd.dddd°)
		<b>SET &gt; Time Set</b>	
		0165 20200101 ~ 20991231	Date/Time > Send/read the Date setting (20200101=2020/1/1 ~ 20991231=2099/12/31)
		<b>SCOPE &gt; SCOPE SET</b>	
		0176 00/01	Send/read the Marker Position (FIX Type/SCROLL Type) setting (00=Filter Center, 01=Carrier Point)
		<b>SET &gt; Function &gt; Tuner</b>	
		0365 00/01	Send/read the Tuner Select setting (00=AH-705, 01=Others)
		0366 00/01	AH-705 > Send/read the Tune Memory setting (00=OFF, 01=ON)
		<b>SET &gt; Function &gt; Front Key Customize</b>	
		0367 See p. 9.	Send/read the [VOX/BK-IN] setting
		0368 See p. 9.	Send/read the [AUTOTUNE/RX>CS] setting
		<b>SCOPE &gt; SCOPE SET</b>	
		0369 See p. 9.	FIX Edges > 0.03 - 1.60 > Send/read the No.4 setting
		0370 See p. 9.	FIX Edges > 1.60 - 2.00 > Send/read the No.4 setting
		0371 See p. 9.	FIX Edges > 2.00 - 6.00 > Send/read the No.4 setting
		0372 See p. 9.	FIX Edges > 6.00 - 8.00 > Send/read the No.4 setting
		0373 See p. 9.	FIX Edges > 8.00 - 11.00 > Send/read the No.4 setting
		0374 See p. 9.	FIX Edges > 11.00 - 15.00 > Send/read the No.4 setting
		0375 See p. 9.	FIX Edges > 15.00 - 20.00 > Send/read the No.4 setting
		0376 See p. 9.	FIX Edges > 20.00 - 22.00 > Send/read the No.4 setting
		0377 See p. 9.	FIX Edges > 22.00 - 26.00 > Send/read the No.4 setting
		0378 See p. 9.	FIX Edges > 26.00 - 30.00 > Send/read the No.4 setting
		0379 See p. 9.	FIX Edges > 30.00 - 45.00 > Send/read the No.4 setting
		0380 See p. 9.	FIX Edges > 45.00 - 60.00 > Send/read the No.4 setting
		0381 See p. 9.	FIX Edges > 60.00 - 74.80 > Send/read the No.4 setting
		0382 See p. 9.	FIX Edges > 74.80 - 108.00 > Send/read the No.4 setting
		0383 See p. 9.	FIX Edges > 108.00 - 137.00 > Send/read the No.4 setting
		0384 See p. 9.	FIX Edges > 137.00 - 200.00 > Send/read the No.4 setting
		0385 See p. 9.	FIX Edges > 400.00 - 470.00 > Send/read the No.4 setting

Cmd.	Sub cmd.	Data	Description
27*	00	See p. 10.	Read the Scope waveform data (Only when "Scope ON/OFF status" (Command: 27 10) and "Scope data output" (Command: 27 11) are set to "ON," outputs the waveform data to the controller.)
	14	0000 ~ 0003	Send/read the Scope Center mode, Fixed mode, SCROLL-C mode, or SCROLL-F mode setting (0000=CENTER mode, 0001=FIX mode, 0002=SCROLL-C mode 0003=SCROLL-F mode)
	15	See p. 10.	Send/read the Span setting in the Center mode or SCROLL-C mode Scope
	16	0001 ~ 0004	Send/read the Edge number setting in the Fixed mode or SCROLL-F mode Scope

\*(Asterisk) Send/read data

## Changed CI-V commands

### ◆ Command formats

#### • Remote MIC Key setting

Command: 1A 05 0074 ~ 1A 05 0077

Data	Function
⋮	⋮
20	Voice/Keyer/RTTY Memory 1
21	Voice/Keyer/RTTY Memory 2
22	Voice/Keyer/RTTY Memory 3
23	Voice/Keyer/RTTY Memory 4
⋮	⋮
30	TUNER

#### • [VOX/BK-IN] setting

Command: 1A 05 0367

Data	Function
00	TRANSMIT
01	TUNER
02	VOX/BK-IN
03	P.AMP/ATT
04	NOTCH
05	NB
06	NR
07	SPLIT
08	A/B
09	VFO/MEMO
10	CD
11	PRESET
12	Home CH
13	Temporary Skip
14	Voice/Keyer/RTTY Memory 1
15	Voice/Keyer/RTTY Memory 2
16	Voice/Keyer/RTTY Memory 3
17	Voice/Keyer/RTTY Memory 4

#### • [AUTOTUNE/RX>CS] setting

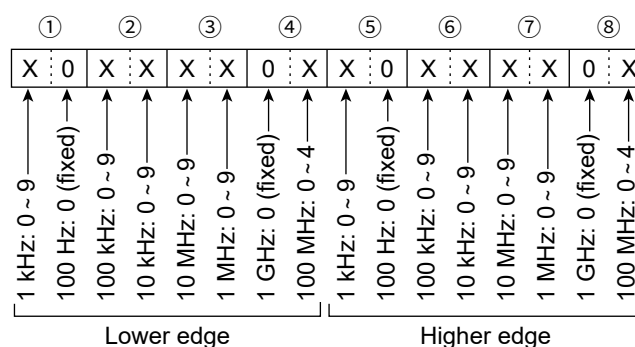
Command: 1A 05 0368

Data	Function
00	AUTOTUNE/RX>CS
01	CD/RX>CS
02	PRESET/RX>CS
03	Home CH/RX>CS
04	Temporary Skip/RX>CS

#### • Bandscope edge frequency settings

Command: 1A 05 0188 ~ 1A 05 0238

1A 05 0369 ~ 1A 05 0385



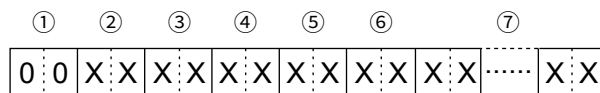


- ◇ Command formats

- **Scope waveform data**

Command: 27 00

Outputs the waveform data to the controller.



- ①: 00 (Fixed)
- ②: Order of division data (Current): 01~11
- ③: Division number (Maximum): 01(WLAN), 11(USB)
  - ① When data is sent to the controller using the WLAN function, all data is sent together. However, when the data is sent through the [microUSB] port, the data is divided by 11 and sent in sequential order.
  - ① The 1st data sends only the wave information (① ~ ⑥) without the waveform data (⑦). The 2nd or later data sends the minimum wave information (① ~ ③) with waveform data (⑦).

- ④: Spectrum scope mode data:
  - 00 = Center mode scope
  - 01 = Fixed mode scope
  - 02 = SCROLL-C mode scope
  - 03 = SCROLL-F mode scope
- ⑤: Waveform information:

The waveform information differs, depending on the Spectrum scope mode.

  - In the Center mode:

Center frequency and span are sent.

See page 16 of the CI-V Reference Guide for Operating frequency data, and the Scope span settings to the right.
  - In the Fixed, SCROLL-C, and SCROLL-F modes:

Lower edge and higher edge frequencies are sent. See page 27 of the CI-V Reference Guide for Scope Fixed edge frequency settings ③ ~ ⑫.

- ⑥: Out of range information:
    - 00 = In range
    - 01 = Out of range
  - ⑦: If the scope data is out of range, the waveform data (⑦) is omitted.
- 
- ⑦: Waveform data:

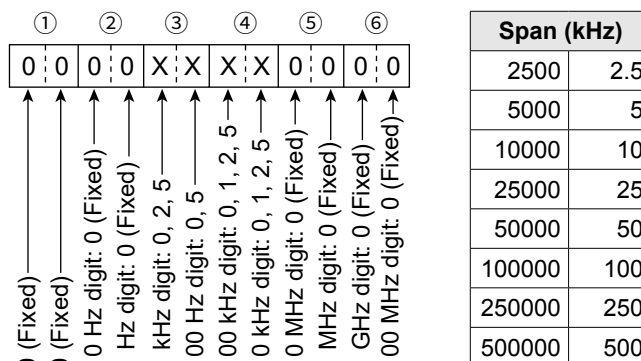
The transceiver outputs the drawn waveform data. The data range or data length of the waveform data is judged by the controller. (The data range is basically the same as the display size of the scope on the controller.)

    - Data range: 0 ~ 160
    - Data length: 475

- **Scope span settings**

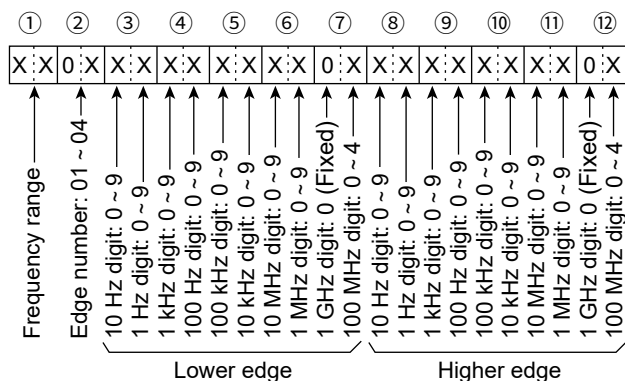
(in the Center mode and SCROLL mode Scope)

Command: 27 15



- **Scope Fixed edge frequency settings**

Command: 27 1E



- ① Entry of less than 1 kHz digits is ignored.

- ① Selectable Frequency ranges:

Data	Frequency range (Hz)
01	0.03 ~ 1.60
02	1.60 ~ 2.00
03	2.00 ~ 6.00
04	6.00 ~ 8.00
05	8.00 ~ 11.00
06	11.00 ~ 15.00
07	15.00 ~ 20.00
08	20.00 ~ 22.00
09	22.00 ~ 26.00
10	26.00 ~ 30.00
11	30.00 ~ 45.00
12	45.00 ~ 60.00
13	60.00 ~ 74.80
14	74.80 ~ 108.00
15	108.00 ~ 137.00
16	137.00 ~ 200.00
17	400.00 ~ 470.00

- ② Selectable Edge number: 01=1, 02=2, 03=3, 04=4

# INFORMATION

## IC-705 Version 1.12

The following features are now changed in, or added to, the IC-705.

**Added** : New functions and/or menus have been added.

**Changed** : Some operations, items, and/or options that already exist have been changed.

### Changed Set mode

The optional BP-307 is now available.

The following settings are added because the discharge characteristics are different between the BP-307 and the supplied BP-272.

**MENU** » **SET > Function**

#### **Battery Pack Select** (Default: BP-272)

Selects the model of the attached battery pack to display the optimized battery status.

#### **Battery Pack Confirmation** (Default: OFF)

Selects whether or not to display the Battery Pack Select dialog when the first time the transceiver is turned ON after reattaching a battery pack.

### Changed VOLTAGE screen

**MENU** » **SET > Others > Information > Voltage**

The [SET] button is added, and the selected battery pack is displayed.

Touching [SET] opens the BATTERY SET screen, and you can set "Battery Pack Select" and "Battery Pack Confirmation."

# INFORMATION

## IC-705 Version 1.11

The following features are now changed in, or added to, the IC-705.

**Added** : New functions and/or menus have been added.

**Changed** : Some operations, items, and/or options that already exist have been changed.

### **Changed** Battery icon

A red battery icon  is added.

Old Version:  →  →  (green) → Blinks

New Version:  →  →  (green) →  (red)  
→ Blinks

① Immediately charge the battery pack when the red battery icon is displayed. Otherwise, the icon will soon start blinking, “LOW BATTERY” will be displayed, and the transceiver will automatically turn OFF.