ICOM

VHF MOBILE TRANSCEIVER
IC-F5122D

UHF MOBILE TRANSCEIVER
IC-F6122D

Icom Inc.

Thank you for choosing this Icom product.
This product 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.

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the **IC-F5122D VHF MOBILE TRANSCEIVER** and **IC-F6122D UHF MOBILE TRANSCEIVER**.

EXPLICIT DEFINITIONS

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

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:
• Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
• The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

PRECAUTIONS

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

⚠ **WARNING! NEVER** operate the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power souce and antenna before a storm.

⚠ **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.

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

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

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

DO NOT use or place the transceiver in areas with temperatures below –25°C or above +55°C, or in areas subject to direct sunlight, such as the dashboard.

DO NOT operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out when the transceiver transmits while the vehicle's engine is OFF.

DO NOT place the transceiver in excessively dusty environments.

DO NOT place the transceiver against walls. This will obstruct heat dissipation.

DO NOT use harsh solvents such as benzine or alcohol when cleaning, as they will damage the transceiver surfaces.
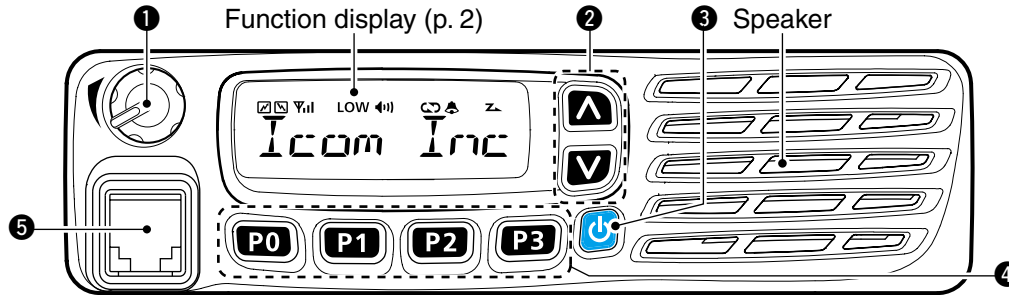
PLACE the radio in a secure place to avoid inadvertent use by unauthorized persons.

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

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■ Front panel

Function display (p. 2)   Speaker

❶ **AF VOLUME CONTROL KNOB [VOL]**
Rotate the knob to adjust the audio output level.
• Minimum audio level is pre-programmed. (p. 12)

❷ **UP/DOWN KEYS [CH Up]/[CH Down]**
Push to select an operating channel, etc.
* The desired function can be assigned by your dealer. (p. 3)

❸ **POWER KEY [⏻]**
Push to turn the power ON or OFF.
• The following optional functions are available at power ON:
  - Automatic scan start
  - Password prompt

❹ **DEALER-PROGRAMMABLE KEYS**
Required functions can be independently programmed by your dealer. (p. 3)

❺ **MICROPHONE CONNECTOR**
Connect the supplied or optional microphone.

 **NEVER** connect non-specified microphones. The pin assignments may be different and may damage the transceiver.

◇ **Microphone**
The supplied or optional microphone has a PTT switch and a hanger hook.
• The following functions are available when the microphone is ON or OFF hook (depending on the preprogramming):
  - Automatic scan starts when you put it ON hook.
  - Scan is cancelled when you take it OFF hook.
  - Scan is paused when you take it OFF hook.
  - Automatically selects the Priority channel when you take it OFF hook.
  - Sets to the 'Inaudible' mode (mute state) when you put it ON hook.
  - Sets to the 'Audible' mode (unmute state) when you take it OFF hook.

■ Function display
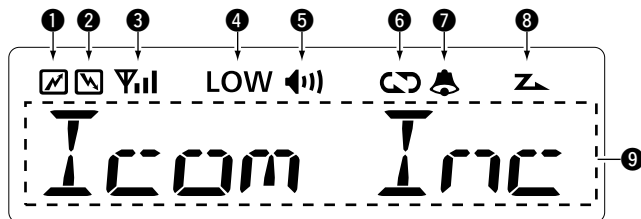
q TRANSMIT ICON
Appears while transmitting a signal.

w BUSY ICON
Appears while the channel is busy (receiving).

e SIGNAL STRENGTH ICON
Shows the relative receive signal strength level.

Weak ⇐ Receive Signal level ⇒ Strong

r LOW POWER ICON
Appears when low output power is selected.

t AUDIBLE ICON
➥ Appears when the channel is in the 'Audible' (unmute) mode.
➥ Appears when a matching signal is received.

y ENCRYPTION ICON
Appears when the encryption function is activated while operating in the digital mode.

u BELL ICON
Appears/blinks when a matching 2/5-tone or Digital ID* is received, depending on the preprogramming.

i SCAN ICON
➥ Blinks during a scan.
➥ Appears when a scan channel is selected.

o ALPHANUMERIC DISPLAY
Displays an operating channel number, channel name, User Set mode contents, DTMF code, etc.

* Digital operation only

See the operating guide for details of MDC and Digital system operations. Ask your dealer for details.

■ Programmable function keys

The following functions can be assigned to [UP], [DOWN], [P0], [P1], [P2] and [P3] programmable function keys.
Consult your Icom dealer or system operator for details concerning your transceivers programming.

CH UP AND DOWN KEYS
As described in the following topics, after pushing a programmed key, push [CH Up] or [CH Down] to select an option, setting, etc.

ZONE KEY
Push this key, then select the desired zone using [CH Up]/[CH Down].

What is "zone"?— Certain channels are grouped together and assigned to a zone, according to their intended to use. For example, 'Staff A' and 'Staff B' are assigned to a "Business" zone, and 'John' and 'Cindy' are assigned to a "Private" zone.

SCAN START/STOPKEY
➥ Push to start and cancel scanning operation.
  • When a scan is started with the Power ON Scan or Automatic scan function, push this key to cancel it. The cancelled scan resumes after the pre-programmed time period.
➥ Hold down this key for 1 second to display the scan group, then push [CH Up] or [CH Down] to select the desired one.

SCAN ADD/DEL (TAG) KEY
➥ Push to add the channel to, or delete it from, the current scan group.
  1. Push to display the scan group, then push [CH Up] or [CH Down] to select the desired one.
  2. Push to add the channel to, or delete it from, the selected scan group.
  3. Hold down for 1 second to exit the scan list selection mode.
➥ While a scan is paused on a non-priority channel, push this key to delete the selected channel from the scan group.

Depending on the setting, the cleared channel is added to the scan group again after the scan is cancelled.

1 PANEL DESCRIPTION

■ Programmable function keys (Continued)

PRIO A/B KEYS
➠ Push to select the Priority A or Priority B channel.
➠ Hold down [Prio A (Rewrite)] or [Prio B (Rewrite)] for 1 second to rewrite the operating channel as Priority A or Priority B,

MR-CH 1/2/3/4 KEYS
Push to directly select memory channel 1 to 4.

MONI (AUDI) KEY
➠ Push to turn the CTCSS (DTCS) or 2/5-tone squelch mute ON or OFF.
  • Only during LMR (Land Mobile Radio) operation, push to open any squelch, or deactivate any mute functions.
  • Only during PMR (Private Mobile Radio) operation, push to activate one or two of the following functions on each channel (depending on the preprogramming):
    - Hold down to unmute the channel ('Audible' mode).
    - Push to mute the channel ('Inaudible' mode).
    - After the communication is finished, push to send a 'reset code' (only 5-tone operation).

  NOTE: The 'Audible' (unmute) mode may automatically return to the 'Inaudible' (mute) mode, after the pre-programmed time period.

LIGHT KEY
Push to turn ON the backlight for about 5 seconds, when the backlight function is set to "OFF" in the User Set mode.

LOCK KEY
➠ Hold down this key until "LOCK ON" is displayed to electronically lock all programmable keys except the following:
  [Moni(Audi)], [Lock], [Call] (incl. Call A and Call B), [Emergency], [Surveillance], [Siren], [Lone Worker] and [Light].
➠ When the Key Lock function is ON, hold down this key until "LOCK OFF" is displayed to turn it OFF.

LONE WORKER KEY
Push to turn the Lone Worker function ON or OFF.
• If the Lone Worker function is turned ON, and no operation occurs during the pre-programmed time period, the Emergency function is automatically turned ON.

HIGH/LOW KEY
Push to select the transmit output power temporarily or permanently, depending on the preprogramming.
• Ask your dealer for the output power level for each selection.

C.TONE CH ENT KEY
Push to enter the continuous tone channel selection mode. Then, push [CH Up] or [CH Down] to change the tone frequency/code setting. The selected channel remains set as the continuous tone channel until another channel is designated as such.

TONE/RAN CH SELECT KEY

➥ While in analog mode, push to enter the continuous tone channel selection mode. Then push [CH Up] or [CH Down] to select a desired tone frequency/code setting. After the selection, push this key again to set it.

➥ While in digital mode, push to enter the RAN channel selection mode. Then push [CH Up] or [CH Down] to select a desired RAN code. After the selection, push this key again to set it.

➥ While in mixed (digital and analog) mode, push to enter the continuous tone channel selection mode. Then push [CH Up] or [CH Down] to select a desired tone frequency/code setting. After setting, push this key to set it. After that, the RAN channel selection mode appears. Select a desired RAN code with [CH Up] or [CH Down]. After the selection, push this key again to set it.

TALK AROUND KEY

Push to turn the Talk Around function ON or OFF.

• The Talk Around function equalizes the transmit frequency to the receive frequency for transceiver-to-transceiver communication.

WIDE/NARROW KEY

Push to toggle the IF bandwidth between wide and narrow.

• The wide passband width can be selected from 25.0 or 20.0 kHz using the CS-F3100D/F5120D CLONING SOFTWARE. (PMR operation only) Ask your dealer for details.

DTMF AUTODIAL KEY

➥ Push to enter the DTMF channel selection mode, then push [CH Up] or [CH Down] to select the desired DTMF channel.

➥ After selecting the DTMF channel, push again to transmit the selected DTMF code.

RE-DIAL KEY

Push to transmit the last-transmitted DTMF code.

• TX memories are cleared after turning OFF the transceiver.

EMERGENCY KEY

Hold down for a specified period to transmit an emergency call.

• If you want to cancel the emergency call, hold down the key again, before transmitting it.

1 PANEL DESCRIPTION

■ Programmable function keys (Continued)

CALL KEYS
Push to transmit a 2/5-tone ID code.
- Tone call transmission may be necessary before you call another station, depending on your signalling system.
- [Call A] and/or [Call B] may be selectable when your system employs selective 'Individual/Group' calls. Ask your dealer which call is assigned to each key.

SURVEILLANCE KEY
Push to turn the surveillance function ON or OFF.
When a signal is received, or a key is pushed, while this function is turned ON, the beeps do not sound and the LCD backlight does not light.

SIREN
Hold down for 1 second to sound the siren.
This function can be used for situations other than an emergency alert, such as a security alarm for example.
- The siren can only be stopped by turning OFF the transceiver power.

TX CODE ENTER KEY (PMR operation only)
Push to enter the TX code edit mode, then push [CH Up] or [CH Down] to set a desired digit. (p. 11)

TX CODE CHANNEL SELECT KEY
➥ Push to enter the TX code channel selection mode, then push [CH Up] or [CH Down] to set a desired channel. (p. 10)
➥ While in the TX code channel selection mode, hold down this key for 1 second to enter the TX code edit mode. Then push [CH Up] or [CH Down] to set a desired digit. (p. 11)

TX CODE CHANNEL UP/DOWN KEYS
Push to select a TX code channel.

ID-MR SELECT KEY (PMR operation only)
➥ Push to recall the received ID code.
- Push this key, then select the ID code using [CH Up]/[CH Down].
- Up to 5 codes can be memorized.
➥ Hold down this key for 1 second to clear the selected ID code.

ENCRYPTION KEY
While operating in the digital mode, push to turn the encryption function ON or OFF.

USER SET MODE KEY

➥ Hold down for 1 second to enter the User Set mode.
 • While in the User Set mode, push this key to select an item*, and change the value or setting using [CH Up] or [CH Down].
 *Selectable items may differ, depending on the preprogramming.
➥ Hold down this key for 1 second again to exit the User Set mode.

The User Set mode is also available via the 'Power ON' function. In this case, all set mode items are available. See page 12.

HOOK SCAN

When the Hook Scan function is pre-programmed, push this key to temporarily disable the function. Push this key again to enable the function.

Ext. CH Sel Mode KEY

Push to turn the Ext. CH Select function ON or OFF.
When the function is turned ON, memory channels can be selected with only and external input.
When the function is turned OFF, memory channels can be selected by pushing [CH Up] or [CH Down], and cannot be externally controlled.
• This function is available when the external unit, such as a dimmer control is connected to the transceiver with an optional OPC-1939 or OPC-2078 cable (p. 17).
• Ask your dealer for more details on external input operation.

POWER OFF EMERGENCY

While holding down this key, turn OFF the transceiver to activate the Power OFF Emergency function. This function makes the transceiver transmit emergency calls, even though it appears to be powered OFF. (p. 14)

2 BASIC OPERATION

■ Turning ON the power

① Push **[⏻]** to turn ON the power.
② If the transceiver is programmed for a start up password, input the digit codes as directed by your dealer.
  • The keys shown below can be used for password input: The transceiver detects numbers in the same block as identical. Therefore "01234" and "56789" are the same.

KEY	**P0**	**P1**	**P2**	**P3**	**V**
NUMBER	0 5	1 6	2 7	3 8	4 9

③ If the "PASSWORD" indication does not clear after inputting 6 digits, the input code number may be incorrect. Turn OFF the power and re-enter your password.

■ Channel selection

There are several methods to select channels, and they may differ, depending on your system set up.

NON-ZONE TYPE:
To select the desired operating channel:
• Push [CH Up] or [CH Down].
• Push one of [MR-CH 1] to [MR-CH 4].

ZONE TYPE:
To select the desired operating channel:
Push [Zone], then push [CH Up] or [CH Down].

AUTOMATIC SCAN TYPE:
Channel setting is not necessary for this type. When turning ON the power, the transceiver automatically starts scanning. Scanning stops when a signal is detected.

■ Call procedure

When your system employs tone signaling (excluding CTCSS and DTCS), a call procedure may be necessary prior to voice transmission. The tone signalling employed may be a selective calling system which allows you to call only specific station(s), and prevents unwanted stations from contacting you.

① Select the desired TX code channel or 2/5-tone code, according to your System Operator's instructions.
  • This may not be necessary, depending on the preprogramming.
  • Refer to pages 10 and 11 for selection.
② Push [Call] (assigned to one of the dealer programmable keys).
③ After transmitting, the remainder of your communication can be carried out in the normal fashion.

Selective calling   *Non-selective calling*
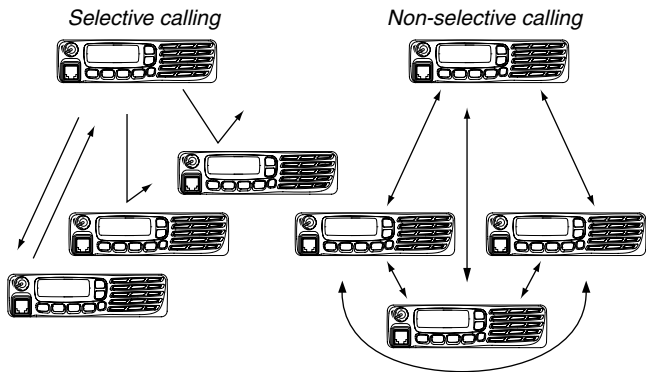
■ Receiving and transmitting

Receiving:
① Hold down **[⏻]** for 1 second to turn ON the power.
② Push [CH Up] or [CH Down] to select a channel.
③ When receiving a call, rotate [VOL] to adjust the audio output level to a comfortable listening level.

NOTE: Depending on the preprogramming, the transceiver automatically transmits the microphone audio for the specified time period*, when a matched RX code signal is received.
• HM-148G or HM-152 HAND MICROPHONE is required.
* Depending on the preprogramming. Ask your dealer for details.

Transmitting:
Wait for the channel to become clear to avoid interference.
① Take the microphone OFF hook.
  • The 'Audible' mode is selected.
  • A priority channel may be automatically selected.
② Wait for the channel to become clear.
  • The channel is busy when the BUSY icon appears on the LCD.
③ While holding down [PTT], speak into the microphone at your normal voice level.
④ Release [PTT] to return to receive.

IMPORTANT: To maximize the readability of your signal;
1. Pause briefly after pushing [PTT].
2. Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then speak into the microphone at a normal voice level.

■ Receiving and transmitting (Continued)

◇ **Transmitting notes**

•**Transmit inhibit function**

The transceiver has several inhibit functions which restrict transmission under the following conditions:

- The channel is in the 'Inaudible' (mute) mode; "◀))" (Audible icon) does not appear.
- The channel is busy. However, depending on the prepro-grammed settings, you can transmit when the call includes an unmatching (or matching) CTCSS (DTCS), RAN code, or Individual or Talkgroup ID.
- The selected channel is a 'receive only' channel.

•**Time-out timer**

If continuous transmission exceeds the pre-programmed time-out timer limit, the transmission is cut off.

•**Penalty timer**

After the transmission is cut off by the time-out timer, trans-mission is further inhibited for the pre-programmed penalty timer period.

•**PTTID call**

The transceiver automatically sends the 5-tone, DTMF, BIIS or digital ANI ID code when [PTT] is pushed (at the begin-ning of the transmission), and/or when it is released (at the end of transmission), depending on the preprogramming.
A PTTID call also be made with the MDC 1200 signaling system.

◇ **TX code channel selection**

If the transceiver has a key assigned to [TX Code CH Select], the dysplay can be toggled between the operating channel number (or name) and TX code channel number (or name). When the TX code channel number (or name) is displayed, [CH Up] or [CH Down] selects the TX code channel.

USING [TX CODE CH SELECT] KEY:

① Push [TX Code CH Select]— a TX code channel number (or name) appears.

② Push [CH Up] or [CH Down] to select the desired TX code channel.

③ After selecting, push [TX Code CH Select] to set.
• Return to the stand-by mode.

④ Push [Call] to transmit the selected TX code.

USING [TX CODE CH UP]/[TX CODE CH DOWN] KEY:

If the transceiver has a key assigned to [TX Code CH Up] or [TX Code CH Down], the programmed TX code channel can be directly selected when pushed.

2

◇ **TX code number edit** (PMR operation only)
If the transceiver has a key assigned to [TX Code CH Select] or [TX Code Enter], TX code contents can be edited within the allowable digits.

USING [TX CODE CH SELECT] KEY:
① Push [TX Code CH Select] to enter the TX code channel selection mode.
 • Select the desired channel before entering the TX code channel selection mode, if necessary.
② Hold down [TX Code CH Select] for 1 second to enter the TX code edit mode.
 • The digit to be edited blinks.
③ Push [TX Code CH Select] to select the desired digit to be edited.
④ Push [CH Up] or [CH Down] to select the desired digit.
⑤ Push [TX Code CH Select] to set. The digit to the right will automatically blink.
⑥ Repeat ④ and ⑤ to edit all allowable digits.
⑦ After editing, push [TX Code CH Select] to set.
 • Return to the stand-by mode.
⑧ Push [Call] to transmit.

USING [TX CODE ENTER] KEY:
① Push [TX Code Enter] to enter the TX code edit mode.
 • The digit to be edited blinks.
② Push [TX Code Enter] to select the desired digit to be edited.
③ Push [CH Up] or [CH Down] to select the desired digit.
④ Push [TX Code Enter] to set. The digit to the right will automatically blink.
⑤ Repeat ③ and ④ to edit all allowable digits.
⑥ After editing, push [TX Code Enter] to set.
 • Return to the stand-by mode.
⑦ Push [Call] to transmit.

◇ **DTMF transmission**
If the transceiver has a key assigned to [DTMF Autodial], the automatic DTMF transmission function is available. Up to 8 DTMF channels are selectable.

① Push [DTMF Autodial]— a DTMF channel appears.
② Push [CH Up] or [CH Down] to select the desired DTMF channel.
③ Push [DTMF Autodial] to transmit the DTMF code.
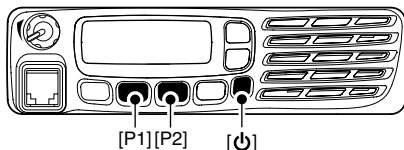
■ User Set mode

The User Set mode can be accessed with the 'Power ON' function. In this case, all set mode items are selectable.
The User Set mode allows you to set seldom-changed settings, and you can "customize" the transceiver operation to suit your preferences and operating style.

NOTE: While in the User Set mode, [Up], [Down] and [P0] activate regardless of the assigned key functions.

Entering the User Set mode:
① Push [⏻] to turn OFF the power.
② While holding down [P1] and [P2], push [⏻] to turn ON the power.
 • Hold down [P1] and [P2] continuously until "SET MODE" appears on the display.

[P1][P2]   [⏻]

③ Hold down [P0] for 1 second to enter the User Set mode.
 • To exit the User Set mode, hold down [P0] for 1 second again.

[P0]
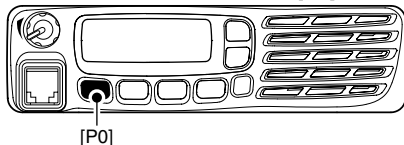
④ Push [P0] several times to select the appropriate item, then push [Up] or [Down] to set the desired level or setting.
 • Selectable Set mode items are **Backlight**, **Beep ON/OFF**, **Beep Level, Ringer Level, SQL Level**, **AF Min Level**, **Mic Gain**, **Battery Voltage, Horn**, **Signal Moni**, **Lone Worker** and **System Info**.

[P0]   [Up]/[Down]
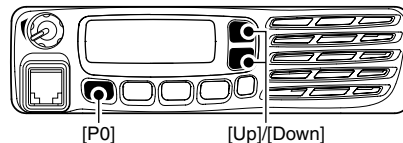
⑤ Hold down [⏻] for 1 second to turn OFF the power, then ON again to return to the normal operating mode.

[⏻]
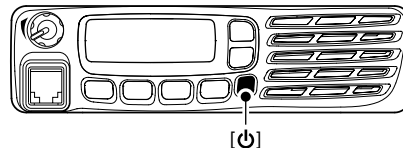
The User Set mode can also be selected using a programmable key. Please refer to the [User Set Mode] section on page 6 for instructions on how to use the key assigned to the User Set mode.
[User Set Mode] can be used for the quick item selection. Set "Enable" for the often used items with the CS-F3100D/F5120D CLONING SOFTWARE.

2

■ Emergency transmission

When [Emergency] is held down for the specified time period*, the emergency signal is transmitted on the specified emergency channel once or repeatedly.
When no emergency channel is specified, the call is transmitted on the operating channel.

The repeat emergency signal is automatically transmitted until you turn OFF the power.
Depending on the preprogramming, receiving a matching 5-tone code cancels the transmission.

If you want to cancel the Emergency function, hold down [Emergency] for the pre-programmed time period again before transmitting the call.

If your transceiver is programmed for Silent operation, you can transmit emergency calls without the beep sounding and the LCD indication change.

IMPORTANT: It is recommended to set an emergency channel individually to provide the certain emergency call operation.

◇ **NOTES**
Depending on the preprogramming, the following functions are automatically activated. Ask your dealer for details.

• **Auto TX function**
After the emergency call transmission, audio from the microphone is automatically transmitted for a specified time period.*
• The HM-148G or HM-152 hand microphone is required.

• **Auto RX function**
After the emergency call transmission, the transceiver stands by in the audible mode for the specified time period.*

* Depending on the preprogramming. Ask your dealer for details.

■ Encryption function

The encryption function provides private communication between stations while operating in the digital mode.

① Push [Encryption] to turn ON the encryption function.
  • "📞" (Encryption icon) appears.
② Push [Encryption] again to turn OFF the encryption function.
  • "📞" disappears.

■ Stun function

The dispatcher can send a 2/5-tone signal that will stun, kill or revive your transceiver.

When the Stun ID is received, a beep sounds*, and the transceiver becomes unusable. Receiving a Revive command or entering password* (p. 8) is necessary to operate the transceiver again in this case.
When the Kill ID is received, a beep sounds*, and the transceiver becomes unusable (the transceiver switches to the cloning required condition). Cloning the transceiver is necessary to operate the transceiver again in this case.
* Depending on the preprogramming. Ask your dealer for details.

See the operating guide for details of the Stun function with the MDC and Digital system operations. Ask your dealer for details.

■ Power OFF Emergency function

When the transceiver has a key assigned to Power OFF Emergency, you can use the function.
This function makes the transceiver transmit emergency calls, even though it appears to be powered OFF.

To activate the Power OFF Emergency function, turn the power OFF while holding down [Power OFF Emergency].
When the function is activated, any key operation, the ON/OFF Hook and Lone Worker functions become invalid. The beep, display and speaker are turned OFF as well.
On the other hand, the transceiver can transmit emergency calls according to the pre-programmed emergency settings.
Depending on the pre-programmed settings, the Remote Monitor function can also be used (digital operation only).
To cancel the Power OFF Emergency function and restore the transceiver, turn the power ON.

■ Priority A channel selection

When one of the following operations is performed, the transceiver automatically selects the Priority A channel.

• **Turning ON the power**
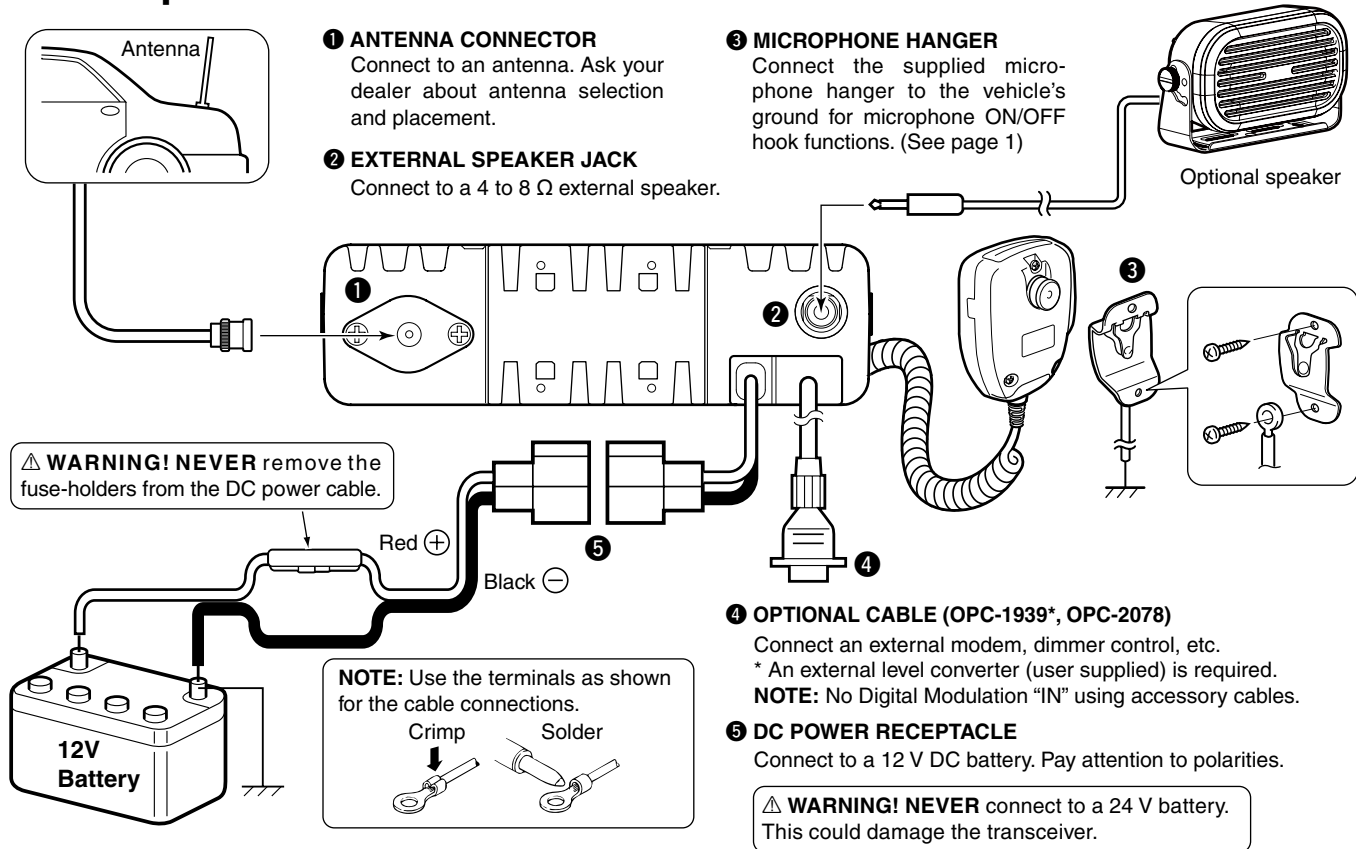 The Priority A channel is selected each time the transceiver power is turned ON.

• **Auto Reset**
  The Priority A channel is selected when the Auto Reset timer ends.

• **OFF hook**
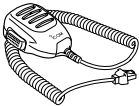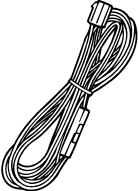 The Priority A channel is selected when you take the microphone OFF hook.

■ Rear panel connection

Antenna

q ANTENNA CONNECTOR
Connect to an antenna. Ask your dealer about antenna selection and placement.

w EXTERNAL SPEAKER JACK
Connect to a 4 to 8 Ω external speaker.

e MICROPHONE HANGER
Connect the supplied microphone hanger to the vehicle's ground for microphone ON/OFF hook functions. (See page 1)

Optional speaker

⚠ **WARNING! NEVER** remove the fuse-holders from the DC power cable.

Red ⊕

Black ⊖

NOTE: Use the terminals as shown for the cable connections.
Crimp   Solder

12V Battery

r OPTIONAL CABLE (OPC-1939*, OPC-2078)
Connect an external modem, dimmer control, etc.
* An external level converter (user supplied) is required.
NOTE: No Digital Modulation "IN" using accessory cables.

t DC POWER RECEPTACLE
Connect to a 12 V DC battery. Pay attention to polarities.

⚠ **WARNING! NEVER** connect to a 24 V battery. This could damage the transceiver.

■ Supplied Accessories

Microphone	Microphone hanger and screw set	Microphone hanger cable

DC power cable	Function name stickers*	Mounting bracket

Flat washers	Nuts	Mounting screws (5×12)

Spring washers	Bracket bolts	Self-tapping screws (5×20)

*Used for labelling the programmable function keys according to their assinged functions.

■ Mounting the transceiver

The universal mounting bracket supplied with your transceiver allows overhead mounting.
• Mount the transceiver securely with the four supplied screws to a thick surface which can support more than 1.5 kg.

Flat washer

Felt*

Spring washer
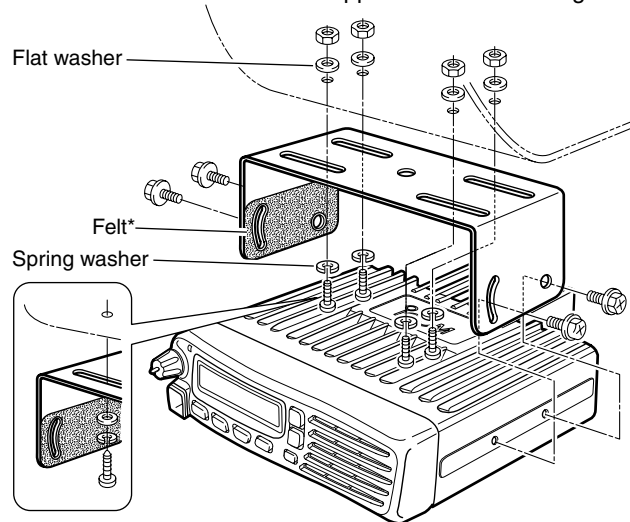
When using self-tapping screws

*Felt reduces the effects of vibration.

■ Antenna

A key element in the performance of any communication systems is its antenna. Contact your dealer for more information regarding antennas and how to install them.

■ Fuse replacement

If a fuse blows or the transceiver stops functioning, track down the source of the problem if possible, repair it and then replace the damaged fuse with a new rated one.

❑ Fuse rating: 10 A

USE the applicable fuse only.
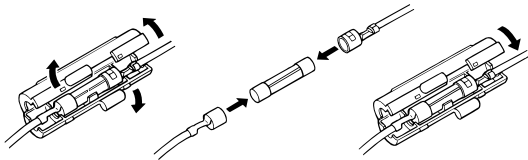
■ Cleaning

If the transceiver becomes dusty or dirty, wipe it clean with a soft, dry cloth.

DO NOT use harsh solvents such as benzine or alcohol, as they will damage the transceiver surfaces.

■ Options

• **OPC-1939/OPC-2078** ACC CABLE
  Allows you to connect to an external terminal.
  OPC-1939: D-sub 15-pin, an external level converter (user suplied) is required
  OPC-2078: D-sub 25-pin, built-in a level converter
  NOTE: No Digital Modulation "IN" using accessory cables.

• **HM-152/HM-152T/HM-148G** HAND MICROPHONE
  HM-152   : Hand microphone
  HM-152T : DTMF microphone
  HM-148G: Self ground heavy duty microphone

• **SM-26** DESKTOP MICROPHONE

• **SP-30/SP-35** EXTERNAL SPEAKER
  Input impedance   : 4 Ω
  SP-35: Rated input; 5 W, Max. input; 7 W
  SP-30: Rated input; 20 W, Max. input; 30 W

INFORMATION

■ ABOUT CE AND DOC

Hereby, Icom Inc. declares that the versions of IC-F5122D and IC-F6122D which have the "CE" symbol on the product, comply with the essential requirements of the Radio Equipment Directive, 2014/53/EU, and the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address:
http://www.icom.co.jp/world/support

■ DISPOSAL

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

About e-marking: Detailed installation notes for Icom mobile transceivers to be fitted into vehicles are available. Please contact your Icom dealer or distributor.

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Count on us!

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