FUNCTION DISPLAY

❶ → Icon Area

❷

Icon Area

```
YⁱⁱH  🔆🔵SD🔌✉🛰        00:00
001 ch-01
Individual-1
Call                    Scan
```
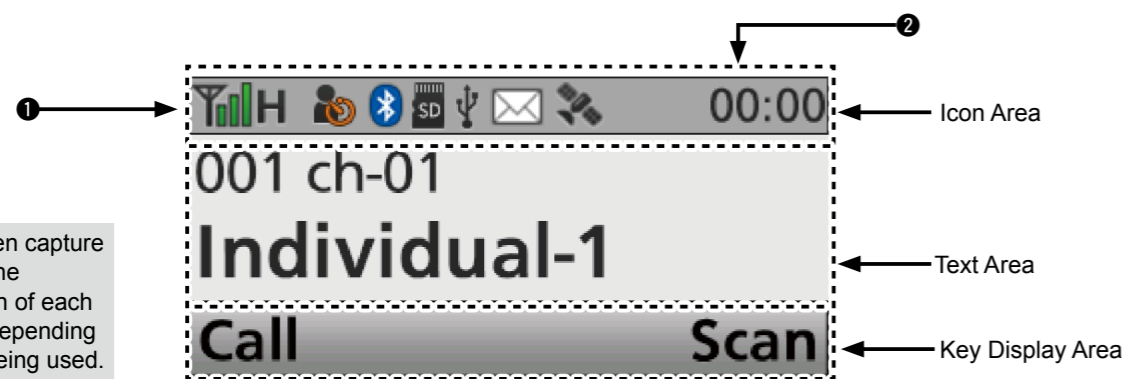
Text Area

Key Display Area

NOTE: The screen capture is an example. The displayed position of each icon may differ, depending on the function being used.

◇ Icon Area

Indicators

❶ SIGNAL STRENGTH INDICATOR
Displays the relative received signal strength.

❷ CLOCK
Displays the current time.
① "AM" or "PM" is displayed beside the time display when the 12 hour display format is selected.
① "--:--" is displayed instead of the current time when the internal clock is not set.

Icons

POWER ICON L1 L2 H
• "L1" is displayed when the output power is set to low.
• "L2" is displayed when the output power is set to mid.
• "H" is displayed when the output power is set to high.

AUDIBLE ICON
Displayed when the channel is in the 'audible' (unmute) mode.

MESSAGE ICON ✉
• Blinks after messages (Message or Status Message) have been received.
• Stops blinking when the screen is changed, or any key is pushed, but is displayed if unread messages are still in the Message memory.
• Disappears when all messages in the Message memory have been read.

BELL ICON 🔔
Displayed when a matching signal is received, depending on the presetting.

SCAN ICON 💤
• Displayed when a scan is paused.
• Blinks while a scanning.

SCAN TARGET CHANNEL ICON ⭐
• Displayed when the channel is selected as a scan target channel.

SCRAMBLER/ENCRYPTION ICON 🔄
In the Analog mode:
Displayed when the Voice Scrambler function is ON.

In the Digital mode:
• Displayed when the Voice Encryption function is ON.
• Blinks when decoding an encrypted signal.

GPS ICON 🛰
• Displayed when valid position data is received.
• Blinks when searching for satellites or calculating position data.

RECORD ICON 📼 📼⚠
• Displayed when the Record function is ON.
• Blinks while recording audio.
① "⚠" is displayed when there is no microSD card free space and you cannot record audio.

TALK AROUND ICON 📡
Displayed when the Talk Around function is ON.

PHONE ICON 📞
• Displayed when the transceiver is connected to a telephone network on the selected channel.
• Blinks while receiving a phone call.

SITE LOCK ICON 📶
Displayed when the Site Lock function is ON.

LONE WORKER ICON 🔆
Displayed when the Lone Worker function is ON.

NOISE CANCEL ICON 🔊
Displayed when the Noise Cancel function is ON.

SURVEILLANCE ICON 🖉
Displayed when the Surveillance function is ON.

VOX ICON VOX
Displayed when the VOX function is ON.

Bluetooth® ICON 🔵 🔵
• Displayed when Bluetooth® is activated.
• Lights Blue when a Bluetooth® device is connected.
• Does not light when no Bluetooth® device is connected.

microSD ICON SD SD⚠
Displayed when a microSD card is inserted.
① "⚠" is displayed when the microSD card has not been formatted.

USB ICON 🔌
Displayed when a USB device is connected.

◇ Text Area

Displays the selected Zone number, Channel number, and Channel name, if set.

◇ Key Display Area

Displays the assigned function of [P1] and [P2].
① Ask your dealer about the assigned Software key function.

⭕**iCOM**   INSTRUCTIONS

VHF P25 TRANSCEIVER
IC−F7510

UHF P25 TRANSCEIVER
IC−F7520

Thank you for choosing this Icom product.
READ ALL INSTRUCTIONS carefully and completely before using this product.

IMPORTANT

This instruction sheet includes some functions that are usable only when they are preset by your dealer. The transceiver may have other functions and operations that are not described in this instruction sheet. Ask your dealer for preset function details.
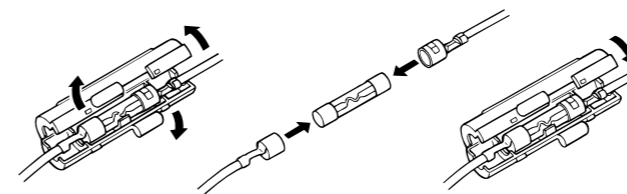
ANTENNA

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

FUSE REPLACEMENT

Fuses are installed in the supplied DC power cable. If a fuse blows, track down the source of the problem, repair it, and then replace the damaged fuse with a new rated one.
① Fuse rating: 20A
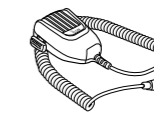 **USE** only 20 A fuses

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 may damage the transceiver's surfaces.
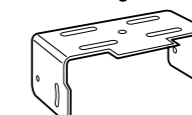
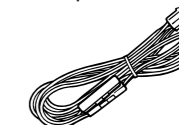## SUPPLIED ACCESSORIES

Microphone (Self-grounding type)

Microphone hanger and screw set

Mounting bracket

DC power cable

Bracket bolts

Mounting screws (M5×12)

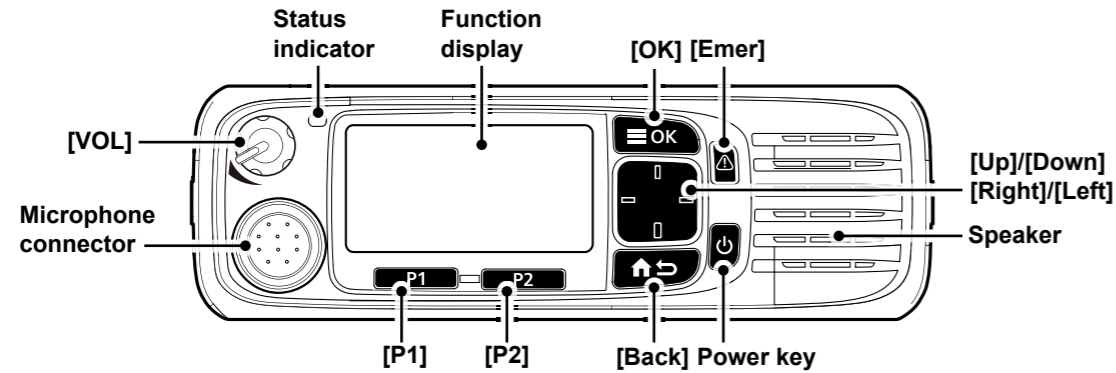Self-tapping screws (M5×16)

Flat washers

Spring washers

Nuts

NOTE: Some accessories may not be supplied, or the shape may be different, depending on the transceiver version.

Count on us!

PANEL DESCRIPTION

NOTE: Different functions may have been assigned to the keys by your dealer, except for the Power key.

Status indicator, Function display, [OK] [Emer], [VOL], Microphone connector, [P1], [P2], [Back] Power key, [Up]/[Down] [Right]/[Left], Speaker

◇ About the Status indicator
- Lights red while transmitting.
- Lights green while receiving a signal, or when the squelch is open.

◇ About the Microphone connector

Connect the supplied or optional microphone.

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

OPTIONS

- **RMK-5** SEPARATION KIT + separation cable*1
  Enables you to separately install the transceiver's main unit from the front panel for convenient operation.
- **HM-218** HAND MICROPHONE + separation cable*2
  Command microphone with a built-in speaker
  ①You need the RMK-5 to connect the HM-218 to the transceiver.
- **RMK-7** DUAL HEAD KIT + separation cable*1
  Enables you to connect two control heads to the transceiver's main unit for dual head operation.

  *1 **OPC-2364**, **OPC-2365**, **OPC-2366** or **OPC-2367** SEPARATION CABLE is used to connect between the control head and the transceiver's main unit.
  • OPC-2364: 1.9 m / 6.3 ft   • OPC-2365: 3 m / 9.9 ft
  • OPC-2366: 5 m / 16.4 ft   • OPC-2367: 8 m / 26.3 ft

  *2 **OPC-2373** or **OPC-2374** SEPARATION CABLE for command microphone is used to connect between the HM-218 and RMK-5.
  • OPC-2373: 1.9 m / 6.3 ft   • OPC-2374: 8 m / 26.3 ft

- **SP-30, SP-35, SP-35L** EXTERNAL SPEAKERS
  Input impedence: 4 Ω
  SP-30:   Rated input= 20 W, Maximum input = 30 W
  SP-35/SP35L: Rated input= 5 W, Maximum input = 7 W

- **HM-220, HM-220T, HM-221, HM-221T** HAND MICROPHONES
  HM-220:   Self-grounding heavy duty microphone
  HM-220T: Self-grounding heavy duty DTMF microphone
  HM-221:   Hand microphone
  HM-221T: DTMF microphone

- **SM-29** DESKTOP MICROPHONE

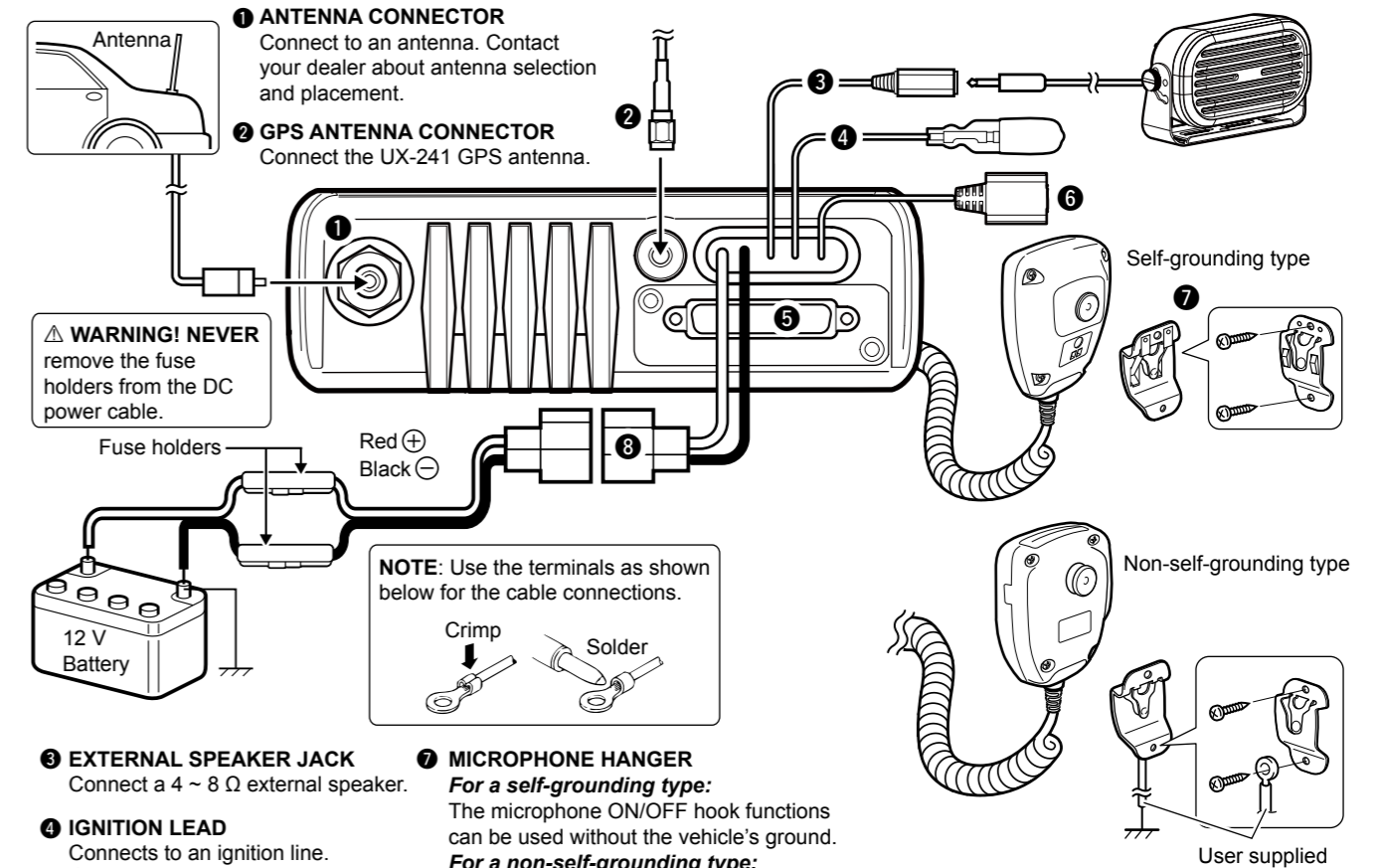- **UX-241** GPS ANTENNA
  Enables you to use the GPS function.

- **VS-3** Bluetooth® HEADSET
  The Bluetooth® headset with a [PTT] switch.

- **About the third party Bluetooth® headsets:**
  Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and WS Alert XP. (Compatibility not guaranteed.)
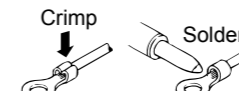
REAR PANEL CONNECTION

❶ **ANTENNA CONNECTOR**
Connect to an antenna. Contact your dealer about antenna selection and placement.

❷ **GPS ANTENNA CONNECTOR**
Connect the UX-241 GPS antenna.

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

Fuse holders

Red ⊕
Black ⊖

12 V Battery

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

Self-grounding type

Non-self-grounding type

User supplied

❸ **EXTERNAL SPEAKER JACK**
Connect a 4 ~ 8 Ω external speaker.

❹ **IGNITION LEAD**
Connects to an ignition line.
⚠ Do not put pressure on this lead. Binding to the DC power cable is recommended.

❺ **D-Sub 25-pin**
Connects to an external unit.

❻ **USB (Micro-B) CABLE**
Connects to a PC.

❼ **MICROPHONE HANGER**
For a self-grounding type:
The microphone ON/OFF hook functions can be used without the vehicle's ground.
For a non-self-grounding type:
Connect the microphone hanger to the vehicle's ground for microphone ON/OFF hook functions.

❽ **Connects to a 12 V DC battery.**
Pay attention to polarities. **NEVER** connect to a 24 V battery.
This will damage the transceiver.

BASIC OPERATION

◇ Turning power ON

Push [⏻] to turn ON the transceiver.

◇ Receiving and Transmitting

Receiving:
1. Push [Up] or [Down] to select a channel.
2. When receiving a call, rotate [VOL] to adjust the audio output level to a comfortable listening level.

Transmitting:
1. Wait until the channel is clear to avoid interference.
2. While holding down [PTT], speak at your normal voice level.
3. Release [PTT] to receive.

IMPORTANT:
To maximize the readability of your signal:
1. After pushing [PTT], pause briefly before you start speaking.
2. Hold the microphone 5 ~ 10 cm (2 ~ 4 inches) from your mouth, then speak at your normal voice level.