

Tait Open2 Portables

User Manual

MPJ-00004 - Issue 02 DRAFT - DRAFT

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Preface

Scope of Manual

This manual provides information on the use of Tait Open2 Portables. It is intended for the end user of the product.

Alerts

Please follow exactly any instruction that appears in the text as an 'alert'. An alert provides necessary safety information as well as instructions about the proper use of the product. This manual uses the following types of alert:



Warning This alert is used when there is a hazardous situation which, if not avoided, could result in serious injury, death, or irreversible equipment damage.



Caution This alert is used when there is a hazardous situation which, if not avoided, could result in minor or moderate injury. Incorrectly performed procedures could result in unexpected equipment behavior, malfunction, or damage.



This alert is used to highlight information that may be required to ensure procedures are performed correctly, or to draw attention to actions that can improve efficiency or effectiveness.

Associated Documentation

The following associated documentation for this product is available on the [One Tait Portal](https://onetaitportal.taitcommunications.com) website, <https://onetaitportal.taitcommunications.com>.

- 401-00153-xx Portables Safety and Compliance Information
- MPJ-00003-xx Tait Open2 Portables Single Battery Charger User Guide
- MPJ-00006-xx Tait Open2 Portables Single Battery Charger Safety Information

The characters **xx** represent the issue number of the documentation.

Technical notes are published from time to time to describe applications for Tait products, to provide technical details not included in manuals, and to offer solutions to any problems that arise. Look for new or updated technical notes on the [One Tait Portal](https://onetaitportal.taitcommunications.com) website.

1 For Your Safety

Before using the radio, read the safety, compliance, and user information supplied with each radio, battery, and charger. Make sure you are familiar with any warnings or specific operating conditions.

1.1 Radio Frequency Exposure



Warning This radio emits radio frequency (RF) energy. Read the Safety and Compliance Information (401-00153-xx) supplied with this radio, ensuring you comply with the conditions listed, before use.

1.2 Battery Warning



Warning This radio uses a Lithium-ion (Li-ion) battery. If the battery is damaged or handled in an unsafe manner it can cause personal injury and/or damage to property. Read the Li-ion Battery Safety Information (MPC-00006-xx), included with your battery, before use.

1.3 Charger Warning



Warning Incorrect use of the battery charger can damage the battery and/or radio and cause personal injury or damage to property. Read the Battery Charger Safety Information (MPJ-00006-xx) and the Battery Charger User Guide (MPJ-00003-xx), included with your battery charger, before use.

1.4 Blocking of Radio and Battery Vent Holes



Warning Do not cover the battery vent hole or the vent hole on the radio chassis.

- If the vent on the battery is obstructed the battery may explode causing personal injury and/or damage to property.
- If the vent on the radio chassis is obstructed, radio operation may deteriorate and the radio may be damaged.

Vent holes are found on the back of the radio chassis and front surface of the battery. They are not accessible when the battery and radio are assembled together.

2 Before Using Your Radio

Before using your radio follow the instructions in this section to fit any additional labels, attach the antenna, belt clip, and audio accessory, and charge the battery for the first time.

2.1 Attaching Labels to the Radio or Battery



Caution Do not affix additional labels to the surfaces between the radio chassis and the battery. The fit between these surfaces is intentionally firm and any added thickness will damage the points of attachment between radio and battery.

If required, attach any label to the label recess on the bottom of the front face of the radio ①.

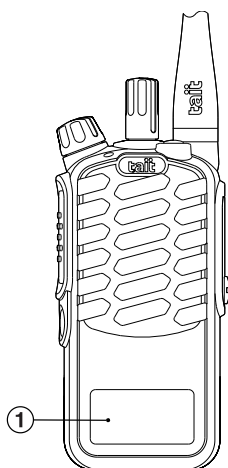


Figure 2.1 Label recess (0-Key radio)

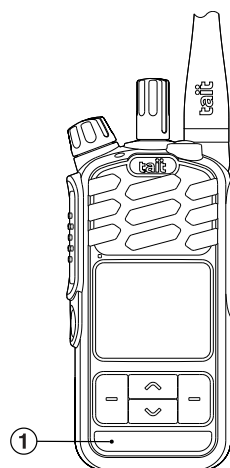


Figure 2.2 Label recess (4-Key radio)

2.2 Attaching or Removing the Antenna

Attach the antenna before using the radio.



Warning Do not change the antenna in a hazardous location. This could cause an explosion, which could cause serious injury or death.

To attach the antenna:

1. Screw the antenna clockwise into the antenna connector.
2. Tighten the antenna sufficiently so that it doesn't unscrew easily. This is important as it creates a seal.

To remove the antenna:

1. Use a firm grip and turn the antenna counterclockwise half a turn.
2. Use a lighter grip to fully unscrew the antenna, and carefully remove it.

2.3 Charging the Battery Before First Use

Before using your battery for the first time, it must be fully charged. The battery can be inserted into the charger, or alternatively, the radio with a battery fitted can be inserted into the charger.

Follow the instructions included with your Tait charger.



For best charging performance, switch off the radio before placing it in the charger.

2.4 Attaching or Removing the Battery

To attach the battery:

1. Rotate the power/volume control knob counterclockwise to turn off the radio.
2. Holding the radio firmly, align the back of the battery with the back of the chassis.
3. Slide the battery into the back of the radio until it clicks into position.



If the battery has been attached or removed while the radio is turned on, turn the radio off and then on again before use.

To remove the battery:

1. Rotate the power/volume control knob counterclockwise to turn off the radio.
2. Push up the catch on the base of the battery.
3. Slide the battery out of the back of the radio.

2.5 Attaching or Removing the Belt Clip

To attach the belt clip to the radio:

1. Slide the belt clip into the two grooves at the top of the battery.
2. Press down on the belt clip until it snaps into place.

To remove the belt clip from the radio:

1. Insert a flat screwdriver blade or similar flat object under the edge of the metal release lock, between the lock and the back of the battery.
2. Lift the release lock up (away from the back of the battery) and hold it in position.
3. Slide the belt clip out.

2.6 Attaching an Audio Accessory

Audio accessories plug in to the radio's accessory connector. The radio's accessory connector is protected by a cover, which needs to be removed before an accessory can be installed. For location of the accessory connector see [Radio Controls and Indicators on page 11](#).



Caution The accessory cover protects the accessory connector from electrostatic discharge. Keep the cover in place unless the connector is in use.

To attach an audio accessory:

1. Use a coin or other blunt object to loosen the radio's accessory cover screw.
2. Remove the accessory cover and store it in a safe place.
3. Insert the top part of the audio accessory's connector ① into the designated groove.
4. Press the bottom part of the audio accessory's connector ② onto the pins.
5. Tighten the screw on the audio accessory's connector.

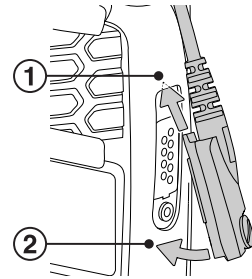


Figure 2.3 Correct method



Caution Do not slide the audio accessory's connector along the radio connector's pins; doing so will damage the radio's connector and may prevent a reliable connection to the accessory.

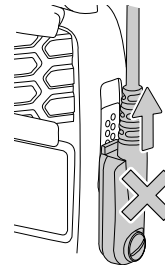


Figure 2.4 Incorrect method

3 Radio Controls and Indicators

3.1 Radio Controls

The locations and functions of the radio controls and indicators are detailed below.

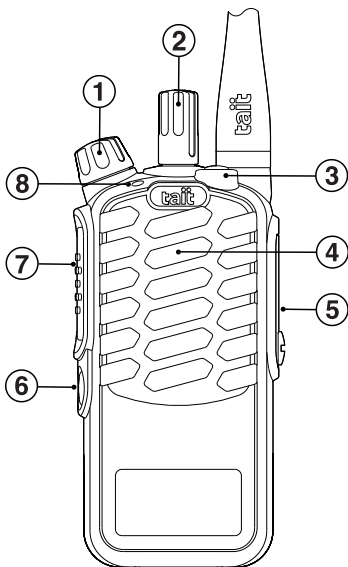


Figure 3.1 O-Key radio

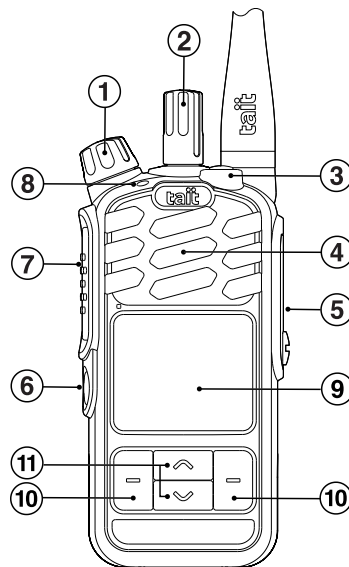


Figure 3.2 4-Key radio

Table 3.1 Radio controls and functions

	Description	Function
1	Power on/off and volume control knob	Rotate to: • turn the radio on or off. • change the output volume.
2	Channel knob	Rotate to select a channel.
3	Function key	Typically configured as the emergency mode button.
4	Microphone/Speaker	Used for audio input and output.
5	Accessory connector	Remove cover to connect an audio accessory.
6	Function key	May be programmed for frequently used options.
7	Push to Talk (PTT) key	Press and hold to transmit, release to listen.
8	Status LED	Color indicates your radio's status.
9	User display	View device operation and configuration information.
10	Menu selection keys	Press to select menu options.
11	Menu up and down scroll keys	Press to scroll up and down through the menu options.



3.2 Radio Display Icons

The icons seen on the radio display, if the radio has a display fitted, depend on the mode in which the radio is operating and the way it is programmed. See [Table 3.2 below](#).

Table 3.2 Radio display icons

Icon	Description
	Indicates the charge status of the battery.
	Scanning: your radio is monitoring a group of channels or talkgroups for activity.
	Scanning: your radio is monitoring a group of channels for activity, and the currently selected channel is a member of the scan group.
	Silent operation: your radio's audible tones have been turned off.
L	Low-power transmit: your radio is set to transmit on low power.
	Your radio is transmitting at low power.
	Your radio is transmitting at standard power.
	Encryption is on: your radio's transmissions are encrypted.
	Signal strength indicator: the more bars that are visible, the stronger the signal received by the radio.
	Scroll keys: use these to move through a list or access a pre-programmed menu.
	There are calls in the queue.
	There are messages in the inbox.
	Your radio is operating on a repeater channel.
	Repeater talkaround is on.
	Bluetooth® is enabled.
	Radio location is on, location information is available.
	Radio location is on, location information is not available.
A	Zone: this letter represents the zone in which your radio is operating, where A is zone 1, and Z is zone 26.

3.3 Status Indicators

The radio has one multicolor LED, located on the top edge of the radio body by the volume control knob, to indicate the current state of the radio.

Table 3.3 Status indicator

LED color and state	Radio state
Red, On	In call, transmitting.
Green, On	In call, receiving.

3.4 Channel and Zone Identification

Your radio display may indicate the following:

- the name of the selected channel.
- the name of the selected zone.

Channel and zone names are defined during radio configuration.

3.5 Low Battery Warning

When the battery is low, you will receive the following warnings:

- the battery symbol on the radio display looks empty and turns red.
- when trying to transmit, the message "Battery is low" appears on the display and transmission is blocked.

When the battery is empty the radio turns off. Recharge or replace the battery as soon as possible.



Do not allow the radio battery to fully discharge every time it is used, as this will shorten the service life of the battery.

3.6 Voice Annunciation

If enabled, voice annunciation will give you a verbal indication of some radio actions.



To hear voice annunciation, the radio's volume control must be set to a sufficient level.

4 Getting Started



This radio may be configured to operate on analog and/or Digital Mobile Radio (DMR) networks. Radio features are dependent on radio model, configuration, and network type.



0-Key radio models have no scroll or selection keys and are unable to access menu options. Operation of these radios is limited to the preset functionality of the radio controls only.



In order to communicate effectively with other radio users, it is important to select the correct channel, talkgroup, and zone where available.

4.1 Powering On and Off

Rotate the volume control knob to turn the radio either on or off.

When the radio is first turned on:

- the status LED momentarily illuminates red.
- a brief message appears on the display.
- two short beeps and voice annunciation are heard if the volume is immediately increased to a sufficient level.

4.2 Navigating the Menus

To access a menu:

1. Press the right selection key whenever the word "Menu" appears above it.
2. Use the up  and down  scroll keys to move through menu items.
3. When the desired menu item is highlighted, press Select to open it.

To exit a menu:

1. Press the left selection key when the word "Back" appears above it.

4.3 Long and Short Keypress Actions

Some features can be started and stopped by pressing the same key for a different period of time. A short keypress is momentary while a long keypress is at least one second.

4.4 Keypad Lock

To manually lock and unlock the radio's keys, give a long press to the right selection key.

4.5 Adjusting the Volume

Use the volume control knob to adjust the volume level of speech and audible tones.

4.6 Using the PTT Key

To use the PTT key to make or answer calls:

1. Hold the radio about 2 inches (5 cm) from your mouth.
2. Press and hold the **PTT key** throughout transmission and:
 - avoid speaking before pressing the **PTT key** to prevent cutting off the start of your sentence.
 - refrain from shouting.
3. Release the **PTT key** when you have finished talking.

4.7 Receiving a Call

An incoming call is indicated by:

- an audible tone.
- a green status LED.
- the radio display showing caller details and received signal strength .

To answer the call:

1. Press the **PTT key** and speak into the microphone.

While you are transmitting, the status LED is red and the transmit icon , or low power transmit icon , appears on the display.

4.8 Selecting Channels, Talkgroups, and Zones

Before making a call to other users you may be required select the correct Channel, Talkgroup, or Zone.

4.8.1 Selecting a channel

An analog or digital channel, is a specific radio frequency that is available for communication.

To select a channel:

1. Rotate the channel knob on the top of the radio.
The selected channel name is shown on the display.

4.8.2 Selecting a talkgroup



This feature is available for digital channels only.

A talkgroup is a preconfigured group of radio users.

To select a talkgroup:

1. Navigate to **Menu > Talkgroups** and then press **Select**.
2. Choose a talkgroup from the list and then press **Select**.
When making a call, the talkgroup name will appear on the display.

4.8.3 Selecting a zone

A zone is a unique grouping of channels and talkgroups.

To select a zone:

1. Navigate to **Menu > Zones** and then press **Select**.
2. Choose a zone from the list and then press **Select**.
The name of the zone appears below the channel name on the radio display.

4.9 Scanning

Scanning monitors a group of channels (scan group) simultaneously, looking for call activity. When call activity is detected on a channel in the scan group, the radio stops on that channel so you can hear the activity and respond if necessary. Scanning resumes once the channel is no longer busy.

Scan groups can contain analog channels, digital channels, or a combination of both.

To add channels to a scan group, manage existing scan groups, or view scan group membership, see [Program Groups on page 29](#).

4.9.1 Turning scanning on or off

To turn scanning on:

1. Press the radio **function key** programmed to turn scanning on and off.
 - "Scanning on" appears on the display and an audible beep is heard.
 - "No Scan list!" appears on the display if the currently selected channel is not a member of a scan group.

While the radio is scanning for activity:

- the animated scan icon  appears on the display.
- the animated scan icon with a tick  appears on the display, if the current selected channel is member of the scan group.



Switching to a channel that is not part of a scan group stops scanning. Scanning resumes once you switch back to the original scan group channel.

To turn scanning off:

1. Press the radio **function key** programmed to turn scanning on and off.

4.9.2 Making a call while scanning

When making a call while scanning is on and call activity is detected, the channel that is called is dependent on the way radio has been programmed. Calls may be made to:

- a predetermined channel, for example, the dispatcher.
- the channel where call activity was last detected.
- the current selected channel.

To make a call when call activity is detected during scanning:

1. Press the **PTT key** and speak into the microphone.

4.10 Making a Call



Calls on digital channels have an inactivity timeout. If a pause in the conversation exceeds the timeout the call will end. If this happens, press the **PTT key** again to establish a new call.

4.10.1 Making a call using channels and talkgroups

To make a call:

1. Select a zone if required. See [Selecting a zone on page 16](#).
2. Select a channel or talkgroup. See [Selecting a channel on page 16](#) or [Selecting a talkgroup on page 16](#).

You cannot change channels while transmitting.

3. Check that the channel is clear. If the status LED is green, the channel is busy and you may not be able to transmit. Wait until the status LED has turned off.
4. Press the **PTT key**, wait for the go-ahead double beep, and speak into the microphone.

While you are transmitting, the status LED is red and the transmit icon , or low power transmit icon , appears on the display.

5. When you have finished speaking, release the **PTT key**.

4.10.2 Making an individual call



This feature is available for digital channels only.

To make a call to an individual:

1. Navigate to **Menu > Individual call** and then press **Select**.
A preconfigured list is displayed. The person you made the last individual call to is highlighted.
2. Choose an individual you wish to call from the list and then press **Select**.
3. Press the **PTT key** to make the call.

4.10.3 Limiting call time

Your radio may limit the amount of time you can talk (transmit) continuously by using a transmit timer. This allows other radio users to make calls on that channel.

Your radio warns you before the transmit timer expires by beeping three times and displaying a "Call timeout" message.

If the transmit timer expires you must release the **PTT key** before you can transmit again.



Your radio may be unable to transmit for a short configured time period after the transmit timer has expired.

4.11 Emergency Operation

When activated, an emergency notification can be sent to predefined location such as an individual, group, or dispatcher.

While the emergency is active, your radio may automatically cycle between receive and transmit so that the individual or group receiving the emergency can hear any nearby activity without you having to use the PTT key.

Two emergency operations are available, emergency callout and emergency cycling. Your radio may have one, or both of these operations enabled.

4.11.1 Emergency callout

To activate an emergency callout:

1. Press the **emergency mode button**.
 - "Emergency mode" appears on the display.
 - The display background color will turn red.
 - The status LED will turn red during the automatic transmit periods of the callout.



In some radio configurations, you cannot transmit by pressing the PTT key during the automatic transmit periods of the emergency callout. If this is the case, "Cannot transmit" appears on the display.

Once an emergency callout is activated, your radio will do one of the following depending on how it is configured:

- automatically end the callout after a set number of receive and transmit cycles.
- wait for an acknowledgment from another radio and then automatically end the callout.
- wait for you to manually cancel the callout by pressing the **emergency mode button**.

Depending on your radio configuration you may see the following on the display:

- "No Ack received" indicates that there have been no acknowledgments from any radio that is receiving the callout.
- "Ack received" indicates that there is an acknowledgment from a radio that is receiving the callout.
- "Emergency complete" indicates the alert has ended because:
 - the callout has been acknowledged by another radio.
 - your radio has reached a set number of alert transmit and receive cycles.
- "Emergency canceled" indicates that you have manually canceled the callout.



A request to make an emergency call to a group, with an existing call in progress, will end the normal group call and start the emergency call instead.

Receiving an emergency callout

If an emergency callout is generated by another radio, and your radio is configured to receive that callout, your radio will:

- emit initial audible alert beeps.
- display the message "Emergency alert [name of the radio sending alert]".
- turn the display background color red.
- turn the status LED green while receiving transmissions from the radio generating the callout.

You can then choose to:

- listen to any transmissions coming from the sending radio as that radio automatically cycles between receive and transmit.
- press the **PTT key** to call the sending radio.
- clear the callout from your radio by pressing:
 - **Clear** on 4-key radios.
 - the **emergency mode button** on 0-key radios.

4.11.2 Emergency cycling

To activate emergency cycling:

1. Press the **emergency mode button**.
 - "Emergency mode" appears on the display.
 - The display background color will turn red.
 - The status LED will turn red during the automatic transmit periods of the emergency cycling.

Once emergency cycling is activated, your radio will do one of the following depending on how it is configured:

- automatically end the emergency cycling after a set number of receive and transmit cycles.
- wait for you to manually cancel the emergency cycling by pressing the **PTT key** or **emergency mode button**.

Depending on your radio configuration you may see the following on the display:

- "Emergency complete" indicates that the emergency cycling has ended because your radio has reached a set number of transmit and receive cycles.
- "Emergency canceled" indicates that you have manually canceled the emergency cycling.



A request to make an emergency call to a group, with an existing call in progress, will end the normal group call and start the emergency call instead.

Receiving an emergency call

If emergency cycling is started by another radio, and your radio is configured to receive that emergency call, your radio will:

- emit initial audible alert beeps.
- display the message "Emergency call [name of the radio sending alert]".
- turn the display background color red.
- turn the status LED green while receiving transmissions from the radio generating the emergency call.

You can then choose to:

- listen to any transmissions coming from the sending radio as that radio automatically cycles between receive and transmit.
- press the **PTT key** to call the sending radio.

4.12 Lone Worker Alert



This feature is available for digital channels only.

Lone worker monitors your radio for activity. If you haven't pressed any radio keys within a configured timeout period, your radio starts a lone worker alert. The emergency alert can be sent to an individual, group, or a dispatcher.

To enable and disable this feature see [Functions on page 31](#).

"Lone worker activated" or "Lone worker deactivated" briefly appears on the display when the feature is enabled or disabled.



If you turn your radio off, you will need to re-enable lone worker when you turn your radio back on.

The lone worker timer countdown bar appears on the display when the feature is enabled, indicating the time remaining until a lone worker alert is activated.

To reset the lone worker timer and countdown bar:

1. Press any key.

Once the lone worker timer has expired, and before a lone worker alert is generated, a rapid countdown bar graph with the message "Lone worker awaiting" appears on the display.

To cancel the lone worker alert before it is generated:

1. Press **Cancel**.

Once a lone worker alert is generated you can:

- do nothing and allow an emergency alert to be raised. The alert may be configured to automatically end after a set time period.
"Emergency complete" appears on the display when the alert has ended.
- cancel the emergency alert by pressing the **emergency mode button**.
"Emergency canceled" appears on the display when the alert is canceled.

During the alert you may briefly see the message "Ack received", indicating that there is an acknowledgment from a radio that is receiving the alert.

4.12.1 Receiving a lone worker alert

If a lone worker alert is generated by another radio, and your radio is configured to receive that alert, your radio will:

- emit initial audible alert beeps.
- display the message "Emergency alert [name of the radio sending alert]".
- turn the display background color red.
- turn the status LED green while the radio receives transmissions from the radio generating the alert.

You can then choose to:

- press the **PTT key** to call the sending radio.
- press **Clear** to remove the alert from your radio.

5 Radio Menu Options

This section details menu options that you might find on your radio.

5.1 Missed Calls

 This feature is available for digital channels only.

If you have missed an incoming call or call alert it may be stored in the missed calls queue. The missed call icon , along with information about the missed call, may be shown on the display.

 The missed call icon will still be visible if you have queued items that were received on a digital channel and you switch to an analog channel. You cannot access the queue from an analog channel, switch to a digital channel to access the queue.

 In some situations the Bluetooth icon may cover the queue icon.

Your radio may be programmed to:

- store multiple calls, or just the last call.
- emit audible tones to indicate a queued item.

To view and manage missed calls in the queue:

1. Navigate to **Menu > Missed calls** and then press **Select**.
2. Choose a queued item from list and then press **Select**.
3. Choose one of the following options and then press **Select**.
 - **Call sender**—make a voice call to the sender by pressing the **PTT key**.
 - **Details**—review missed call and message details.
 - **Delete**—delete an individual queued item.
 - **Delete all**—delete all queued items.

5.2 Zones

For details see [Selecting a zone on page 16](#).

5.3 Individual Call

 This feature is available for digital channels only.

For details see [Making an individual call on page 18](#).

5.4 Talkgroups

 This feature is available for digital channels only.

For details see [Selecting a talkgroup on page 16](#).

5.5 Services

 The Services menu and its associated features are available for digital channels only.

5.5.1 Messages

Send and manage outgoing and incoming messages using the menu options below.

Inbox

If you have received a status or text message it may be stored in the messages inbox. The messages icon , along with information about the message, may be shown on the display. Your radio may be programmed to store multiple messages, or just the last message.

To review a list of incoming messages:

1. Navigate to **Menu > Services > Messages** and then press **Select**.
2. Choose Inbox from the list and then press **Select**.
3. Choose a message from the inbox list and then press **Select**.
4. Press **Options**, choose one of the following, and then press **Select**.
 - **Reply**—send a message back to the sender.
 - **Call sender**—make a voice call to the sender by pressing the PTT key.
 - **Details**—review sent message details with the option to send a reply message.
 - **Delete**—delete an individual message.
 - **Delete all**—delete all stored messages.

Preset message

To send a preset message to an individual radio or group:

1. Navigate to **Menu > Services > Messages** and then press **Select**.
2. Choose preset message from the list and then press **Select**.
3. Select an individual radio or group from the list and then press **Send**.

The message "Sending message to [individual radio or group]" appears followed by "Delivery confirmed" if successful.

Sent

To review a list of sent messages:

1. Navigate to **Menu > Services > Messages** and then press **Select**.
2. Choose Sent from the list and then press **Select**.
3. Choose a message from the Sent list and then press **Select**.
4. Choose one of the following options and then press **Select**.
 - **Details**—review sent message details.
 - **Delete all**—delete all stored messages.

5.5.2 Status update

A status update message is sent to another party to indicate current activity or location, such as “enroute” or “at lunch”.

If a status message is received, the message is automatically added to the messages inbox.

To send a status message:

1. Navigate to **Menu > Services > Status update** and then press **Select**.
2. Select a message from the displayed list and then press **Select**.
3. Select an individual or group from the list and then press **Send**.

The message "Sending status to [individual radio or group]" appears on the display, followed by "Delivery confirmed" if successful.

5.5.3 Call alert

You can let other radio users know you wish to communicate by sending them a call alert page.

When the receiving radio user receives the call alert page they can call back immediately or when it is convenient by accessing the call alert details from the missed calls menu.

Sending a call alert page

To send a call alert page:

1. Navigate to **Menu > Services > Call alert** and then press **Select**.
2. Select a radio to page from the preset list of radios and then press **Send**.

The message "Sending page to [selected radio]" appears on the display, followed by "Delivery confirmed" if successful.

Receiving a call alert page

If a call alert page is received from another radio user, "Call alert" and the caller name appears on the display.

If a call alert page is received, select:

- **Call** and press the **PTT key** to call the sender.
- **Clear** to delete the call alert.

If the call alert page is missed, a call alert entry is added to the missed calls queue.

5.5.4 Radio check

Use radio check to find out if another user's radio is communicating.

To send a radio check:

1. Navigate to **Menu > Services > Radio check** and then press **Select**.
2. Select from the preset list of radios and then press **Send**.

The message "Sending radio check to [selected radio]" appears on the display, followed by "Response received" if successful.

5.5.5 Radio monitor

You can use radio monitor when you are concerned about the safety of another radio user on the same digital channel.

When sending a radio monitor request to a radio, that radio calls you back without giving any indication that it is making a call. You can hear any activity near the radio for a short time period.

To send a radio monitor request:

1. Navigate to **Menu > Services > Radio monitor** and then press **Select**.
2. Select a radio from the preset list of radios and then press **Send**.

The message "Sending R.U.M to radio" appears on the display and you should be able to hear activity near the other radio if successful.

If an acknowledgment is not received from the recipient's radio, you will have the option of either canceling or resending the request.

5.5.6 Radio inhibit

You can use the radio inhibit feature to make another radio on the system inoperable.

To the user of the inhibited radio it appears as though the radio is idle, but status LED flashes red and the radio is made inoperable. The radio remains inoperable even if it is turned off and then on again.

The inhibited radio cannot return to operation until it receives an uninhibit request. See [Radio uninhibit below](#).

To send a radio inhibit request:

1. Navigate to **Menu > Services > Radio inhibit** and then press **Select**.
2. Choose a radio from the preset list of radios and then press **Send**.

If successful, the message "Inhibit confirmed" appears on the display.

5.5.7 Radio uninhibit

You can use the radio uninhibit feature to make an inhibited radio on the system operable.

To send a radio uninhibit request:

1. Navigate to **Menu > Services > Radio uninhibit** and then press **Select**.
2. Choose a radio from the preset list of radios and then press **Send**.

If successful, the message "Uninhibit confirmed" appears on the display and the uninhibited radio will return to normal operation.

5.6 Bluetooth

To use a Bluetooth audio device, the device must first be paired with your radio. Pairing creates a unique and encrypted wireless link between the radio and the device.

To enable or disable this feature see [Functions on page 31](#).

The Bluetooth icon  appears on the display when the feature is enabled.



The Bluetooth enable and disable feature can be overridden at radio power-on by the Bluetooth power-on status feature. See [Power-on status on the next page](#).



To get the best performance from a Bluetooth audio device avoid coming into contact with, or blocking, the internal Bluetooth antenna of a device or the radio.

5.6.1 Bluetooth device compatibility

Bluetooth audio devices must be compatible with the Bluetooth Specification Version 2.0 or higher. Additionally, the device must include Bluetooth Headset Profile (HSP) version 1.1 or 1.2, or Bluetooth Handsfree Profile (HFP) version 1.5 or 1.6.



Not all Bluetooth devices will work with this radio.

5.6.2 Pairing a device with the radio

To pair with a Bluetooth audio device:

1. Put the Bluetooth audio device into pairing mode.
2. Navigate to **Menu > Bluetooth > Find new devices** and then press **Select**.
The **New devices** menu opens, and the message "Searching ..." appears.
3. Select the required Bluetooth device from the list of discovered devices and then press **Connect**.
 - "Connecting to [device name]" briefly appears while the radio attempts to pair with the device. This message may disappear from the display even though the connection process is still in progress.
 - "[Device name] Connected" appears when the radio is paired with the device.
 - When the device is successfully paired, it is visible in the **Manage device** list.



If a Bluetooth device is currently paired with the radio and you attempt to pair a new device while the currently paired device is active, you will see the message "Already paired with [device name]".

4. Repeat the previous steps to add additional Bluetooth audio devices.

5.6.3 Managing Bluetooth devices

To manage Bluetooth devices:

1. Navigate to **Menu > Bluetooth > Manage device** and then press **Select**.
2. Choose a device from the list and then press **Select**.
3. Choose one of the following options and then press **Select**.
 - **Disconnect**—disconnect the paired device. The device will still remain in the devices list and can be reconnected to at any time.
 - **Remove**—remove the selected device from the paired devices list.



If you have used the "Remove" option you will need to pair the Bluetooth device with the radio again before use.

5.6.4 Power-on status

Use power-on status to set the Bluetooth state at radio power-on.



Bluetooth power-on status overrides the Bluetooth enable and disable feature in the **Radio settings > Functions > Bluetooth** menu. See [Functions on page 31](#).

To change the power-on status:

1. Navigate to **Menu > Bluetooth > Power-on status** and then press **Select**.
2. Choose one of the following options and then press **Select**:
 - **On**—enable Bluetooth at power-on.
 - **Off**—disable Bluetooth at power-on.
 - **Previous**—return to the last Bluetooth state at power-on.
3. Choose **On** or **Off** and then press **Select**.

5.7 Own Location

 This feature is available for digital channels only.

Own location displays the current location information for your radio. To enable this feature see [Functions on page 31](#).

The location icon  on the display indicates that the feature is on. The icon will be  if the feature is on but location information is not available.

To display location information:

1. Navigate to **Menu > Own location** and then press **Select**.
If the radio cannot report the location, "invalid" is shown on the display.

5.8 Program Groups

Options within the Program groups menu allow you to manage channels associated with a scan group.

 If the current selected channel is not a member of a scan group, the message "No Scan list!" appears on the display and you cannot access the **Program Groups** menu.

Group members

To view members of a selected scan group:

1. Navigate to **Menu > Program groups > Group members** and then press **Select**.

Add channel

 It is recommended to limit the number of channels in a scan group. Listening across multiple channels may cause you to miss some, or all, of a call on a channel of interest.

To add a channel to a selected scan group:

1. Navigate to **Menu > Program groups** and then press **Select**.
2. Choose a scan group from the displayed list and then press **Select**.
3. Choose **Add channel** and then press **Select**.
4. Choose a channel from the displayed list and then press **Select**.

The message "Channel added" appears on the display if successful.

Delete channel

To delete a channel from a selected scan group:

1. Navigate to **Menu > Program groups** and then press **Select**.
2. Choose a scan group from the displayed list and then press **Select**.
3. Choose **Delete channel** and then press **Select**.
4. Choose a channel from the displayed list and then press **Delete**.

The message "Channel deleted" appears on the display if successful.

Change Tx

To change the transmit (Tx) channel of a scan group:

1. Navigate to **Menu > Program groups** and then press **Select**.
2. Choose a scan group from the displayed list and then press **Select**.
3. Choose **Change Tx** and then press **Select**.
4. Choose a channel from the displayed list and then press **Select**.

The message "Tx channel changed" will appear on the display if successful.

5.9 Time and Date

Use the following options to view and set the current date and time:

1. Navigate to **Menu > Time and date** and then press **Select**.
2. Choose one of the following options and then press **Select**.
 - **View clock**—view the current date and time.
 - **Set date**—use the up and down scroll keys and the left selection key marked Next to adjust the date, and then press **Save**.
 - **Set time**—use the up and down scroll keys and the left selection key marked Next to adjust the time, and then press **Save**.

5.10 Radio Settings

Options within the radio settings menu allow you to turn features on or off, adjust settings, and view radio information.

5.10.1 Functions



The function options available are dependent on type of channel in use, analog or digital, and how the radio is programmed. You may not see all options.

To turn the radio's function options on or off:

1. Navigate to **Menu > Radio settings > Functions** and then press **Select**.
2. Choose one of the following function options and then press **Select**.
 - **Low power Tx**—for more details see [Low Power Transmit on page 33](#).
 - **Location**—for more details see [Own Location on page 29](#).
 - **Bluetooth**—for more details see [Bluetooth on page 27](#).
 - **Lone worker**—for more details see [Lone Worker Alert on page 21](#).
 - **Talkaround**—for more details see [Talkaround on page 33](#).

3. Choose **On** or **Off** for the selected function and then press **OK**.

The associated function icon appears on the display when the function is enabled.

5.10.2 Alert settings

To set your radio's alert tones to silent operation:

1. Navigate to **Menu > Radio settings > Alert settings > Silent operation** and then press **Select**.
2. Choose **On** or **Off** and then press **Select**.

The silent operation icon  appears on the display.

5.10.3 Display settings

Shortening the time the backlight remains on, or lowering the backlight level, can lower the radio's power consumption extending the life of the battery during a shift.

Backlighting

To set the time the backlight remains on once a user control is accessed or a call is received:

1. Navigate to **Menu > Radio settings > Display settings > Backlighting** and press **Select**.
2. Choose between Continuous (always on), five seconds (5s), ten seconds (10s), 30 seconds (30s), or 60 seconds (60s) and then press **Select**.



If you turn your radio off, the backlight timer will reset to the default value. You will need to set this back to the desired time period when you turn your radio back on.

Backlight level

To set the display backlight level:

1. Navigate to **Menu > Radio settings > Display settings > Backlight level** and then press **Select**.
2. Use the up and down scroll keys to choose a backlight level, one (1) to five (5), and then press **Select**.

The backlight level is indicated on the displayed bar graph.

5.10.4 Radio info

To access radio diagnostics:

1. Navigate to **Menu > Radio setting > Radio info** and then press **Select**.
2. Choose a diagnostic option from the following list and then press **Select**.
 - **Radio ID**—display the radio's identifier.
 - **Version Info**—display the radio's hardware (HW) and firmware (FW) version number.
 - **Serial number**—display the radio's serial number.

5.11 Diagnostics

To access radio diagnostics:

1. Navigate to **Menu > Diagnostics** and then press **Select**.
2. Choose a diagnostic option from the following list and then press **Select**.
 - **Display frequency**—display the receive and transmit frequency of the current channel.
 - **RSSI**—display the current Received Signal Strength Indicator (RSSI) value.
 - **Supply voltage**—display the current battery voltage.

6 Additional Features

6.1 Low Power Transmit

The radio's power consumption can be reduced, extending the life of the battery during a shift, by transmitting at low power (Low power Tx).

To enable and disable this feature see [Functions on page 31](#).



If you turn your radio off, you will need to re-enable Low power Tx when you turn your radio back on.

The low power transmit icon **L** appears on the display when the feature is enabled.

When transmitting at low power, you will see the low power transmission icon  appear in conjunction with the low power transmit feature enabled icon .

6.2 Talkaround

Talkaround allows you to bypass the radio repeater and communicate directly with another radio. This can be done, for example, when the radio is out of range of the repeater, if the repeater is busy, or it stops working.

To enable and disable this feature see [Functions on page 31](#).

The talkaround icon  appears on the display when the feature is enabled.

7 General Care

The only regular maintenance required is ensuring that the battery has sufficient charge, and that the antenna and battery are not damaged.

7.1 Cleaning the Radio



Caution Risk of permanent damage to the radio housing! Do not clean the radio with solvents or alcohol based products. This includes (but is not limited to) ethylene glycol (antifreeze), propanone (acetone), ethanol (methylated spirits), isopropyl alcohol, and pool chlorine (calcium hypochlorite).



Caution Risk of internal damage! To avoid damaging the inside of the radio, do not allow excess liquid to enter the radio body (speaker grille, buttons, and connectors).



Caution Health risk! Always use protective equipment (gloves, face mask) when handling bleach.

If you need to clean the radio:

1. Use a lint-free, dry cloth to remove surface dirt, oil, or grease.
2. Use an alcohol-free, antibacterial wipe to disinfect the radio.
3. Use a water-dampened, lint-free, microfibre cloth to remove any remaining dirt.
 - a. If the damp cloth is ineffective, use a dilute (5 to 10%) solution of alcohol-free dishwashing liquid in clean water, on a cloth, to remove remaining dirt.
 - b. If the dishwashing liquid solution is ineffective, use a solution of one part household bleach to two parts clean water, on a cloth, to wipe away remaining dirt.



Caution Do not immerse the radio in fluids.

7.2 Cleaning the Battery Contacts

If necessary, wipe the contacts of the battery with a dry, lint-free cloth to remove any dirt, oil, or grease.



Caution Do not scratch or scrape the contacts of the battery.

8 Troubleshooting

For troubleshooting basic issues with the radio, see [Table 8.1 below](#).

Table 8.1 Troubleshooting

Issue	Check the following
The radio does not power on.	• Is the battery is firmly attached to the radio? • Is the battery is charged?
The battery is not charging.	• Is the radio or battery seated properly in the charger? • Is the charger plugged properly into the originally supplied power supply? • Are the battery and charger contacts are clean? To clean, wipe the contacts with a dry lint-free cloth to remove any dirt, oil, or grease.
The radio is left in an inoperable state after a firmware update.	 If an unexpected termination occurs during the firmware update process, the radio may be left in an inoperable state. This is not a hardware failure. To recover the radio, repeat the firmware update process again. To ensure the update process is successful: • do not interrupt the process or power cycle the radio. • check there sufficient battery charge so the radio does not shut down during the process. • check that the programming cable is secure and connected to the radio throughout the process.

Simplified Declaration of Conformity

EN Hereby, Tait International Limited declares that the radio equipment type TPJB1A, TPJB1B, TPJHGA, TPJHGB is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
<https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

BG С настоящото Tait International Limited декларира, че този тип радиосъоръжение TPJB1A, TPJB1B, TPJHGA, TPJHGB е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

ES Por la presente, Tait International Limited declara que el tipo de equipo radioeléctrico TPJB1A, TPJB1B, TPJHGA, TPJHGB es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente:
<https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

CS Tímto Tait International Limited prohlašuje, že typ rádiového zařízení TPJB1A, TPJB1B, TPJHGA, TPJHGB je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

DA Hermed erklærer Tait International Limited, at radioudstyrstypen TPJB1A, TPJB1B, TPJHGA, TPJHGB er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse:
<https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

DE Hiermit erklärt Tait International Limited, dass der Funkanlagentyp TPJB1A, TPJB1B, TPJHGA, TPJHGB der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:
<https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

ET Käesolevaga deklareerib Tait TPJB1A, TPJB1B, TPJHGA, TPJHGB vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

EL Με την παρούσα ο/η Tait International Limited, δηλώνει ότι ο ραδιοεξοπλισμός TPJB1A, TPJB1B, TPJHGA, TPJHGB πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο:
<https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

FR Le soussigné Tait International Limited, déclare que l'équipement radioélectrique du type TPJB1A, TPJB1B, TPJHGA, TPJHGB est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:
<https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

HR Tait International Limited ovime izjavljuje da je radijska oprema tipa TPJB1A, TPJB1B, TPJHGA, TPJHGB u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

IT Il fabbricante, Tait International Limited, dichiara che il tipo di apparecchiatura radio TPJB1A, TPJB1B, TPJHGA, TPJHGB è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

LV Ar šo Tait International Limited deklarē, ka radioiekārta TPJB1A, TPJB1B, TPJHGA, TPJHGB atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

LT Aš, Tait International Limited, patvirtinu, kad radijo įrenginių tipas TPJB1A, TPJB1B, TPJHGA, TPJHGB atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

HU Tait International Limited igazolja, hogy a TPJB1A, TPJB1B, TPJHGA, TPJHGB típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

MT B'dan, Tait International Limited, niddikjara li dan it-tip ta' tagħmir tar-radju TPJB1A, TPJB1B, TPJHGA, TPJHGB huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

NL Hierbij verklaar ik, Tait International Limited, dat het type radioapparatuur TPJB1A, TPJB1B, TPJHGA, TPJHGB conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

PL Tait International Limited niniejszym oświadcza, że typ urządzenia radiowego TPJB1A, TPJB1B, TPJHGA, TPJHGB jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

PT O(a) abaixo assinado(a) Tait International Limited declara que o presente tipo de equipamento de rádio TPJB1A, TPJB1B, TPJHGA, TPJHGB está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

RO Prin prezenta, Tait International Limited declară că tipul de echipamente radio TPJB1A, TPJB1B, TPJHGA, TPJHGB este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

SK Tait International Limited týmto vyhlasuje, že rádiové zariadenie typu TPJB1A, TPJB1B, TPJHGA, TPJHGB je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese:

SL Tait International Limited potrjuje, da je tip radijske opreme TPJB1A, TPJB1B, TPJHGA, TPJHGB skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

FI Tait International Limited vakuuttaa, että radiolaitetyypit TPJB1A, TPJB1B, TPJHGA, TPJHGB on direktiivin 2014/53/EU mukainen. EU-vaatimusten-mukaisuus-vakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: <https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>

SV Härmed försäkrar Tait International Limited att denna typ av radioutrustning TPJB1A, TPJB1B, TPJHGA, TPJHGB överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress:
<https://www.taitcommunications.com/our-resources/compliance/declarations-of-conformity>