APX™ TWO-WAY RADIOS

APX 3000

USER GUIDE

MOTOROLA

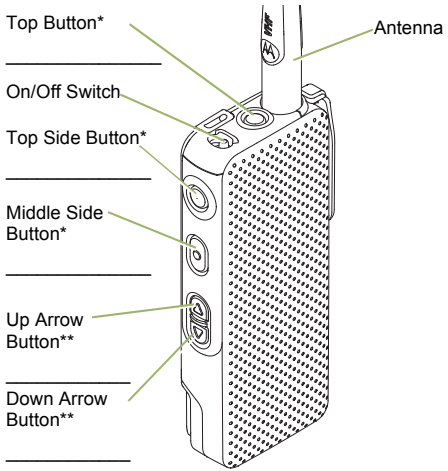
ASTRO® APX™ 3000 Digital Portable Radios Quick Reference Card

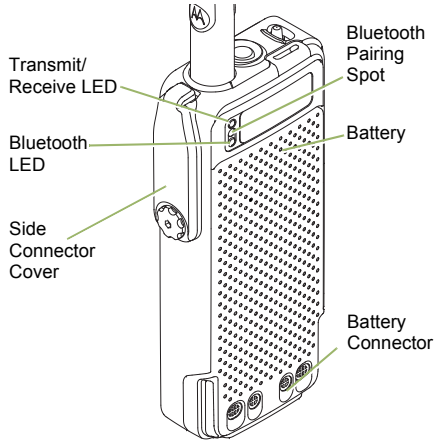
RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

ATTENTION!

This radio is restricted to Occupational use only. Before using the radio, read the RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations.

Radio Controls





IMPORTANT!

You must connect a speaker microphone, earpiece or headset to hear the audio indicators; and a **GCAI DRSM to** see the strings and icons of your radio.

Turning Radio On/Off

- **On** – Push the **On/Off Switch** downwards. You see a Green Dot.
- **Off** – Push the **On/Off Switch** upwards.

Control Buttons for Channels, Zone or Volume

- **Multi-Functional Button (MFB)*** – To toggle between **Volume**, **Channel** or **Zone** mode.
- **Up Arrow Button**** – To increase volume; to toggle the channels or zones up.
- **Down Arrow Button**** – To decrease volume; to toggle the channels or zones down.

** MFB can be programmed to Top, Top Side and Middle Side button. It can be configured to support two features out of Volume, Channel or Zone mode.*

Making a Call

1. Press the **Multi-Functional Button*** to the desirable channel or zone mode.
2. Press the **Up/Down Arrow Button** to change the channel/zone.
3. Adjust volume, if necessary.
4. Press the **PTT** button to transmit; release to receive.

You may hear Channel Voice Announcement upon entering channel or zone mode if preprogrammed.

Sending an Emergency Alarm

1. Press and release the **Emergency** button***.
2. When acknowledgment is received, you hear four beeps; alarm ends; and radio exits emergency.

******Default emergency button press timer is set to 1 second.** This timer is programmable, see page 40 in the user guide for details.*

*To exit emergency at any time, press and hold the **Emergency** button.*

PMLN6407B

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1303 East Algonquin Road., Schaumburg, Illinois 60196, U.S.A.

English

Sending an Emergency Call

1. Press the **Emergency** button.
2. Press and hold the **PTT** button. Speak clearly with the microphone near your mouth.
3. Release the **PTT** button to end call.
4. Press and hold **Emergency** button to exit emergency.

*To exit emergency at any time, press and hold the **Emergency** button.*

Sending a Silent Emergency Alarm

1. Press the **Emergency** button.
2. The LED does not light up, and there is no tone.
3. Silent emergency continues until you press and hold the **Emergency** button to exit emergency state.
   OR
   Press and release the **PTT** button to exit the Silent Emergency Alarm mode and enter regular dispatch or Emergency Call mode.

*To exit emergency at any time, press and hold the **Emergency** button.*

LED Indicator

Solid red	Radio is transmitting.
Blinking red	Radio is transmitting at low battery condition.
Rapid blinking red	Power-Up failure.
Solid green	Radio has completed power up.
Blinking blue (3 Blinks)	Bluetooth is powering On/ Off.
Slow blinking blue	Bluetooth is ready to pair.
Rapid blinking blue for two seconds	Bluetooth fails to connect or disconnect from a device.
Solid blue for two seconds	Bluetooth device is connected or disconnected.
Solid blue	Bluetooth error.
Blinking blue at heartbeat pace	Radio is connected with at least one Bluetooth accessory device.

Bluetooth Pairing with Mission Critical Wireless Pod

1. To hear audio indications, plug the earpiece into the Wireless Pod.
   OR
   To function as a Standalone PTT Device, remove the earpiece.
2. Power on both your radio and Pod.
3. Ensure the Bluetooth feature of your radio and Pod are enabled. Ensure the Pod is in pairing mode.
4. Place the Bluetooth pairing spot of your Pod within one inch from the Bluetooth pairing spot on your radio.

Audio indications include alert tones and Voice Announcement (feature enabled via CPS).

Bluetooth Pairing with Mission Critical Wireless Remote Control Unit (RCU)

1. Verify that both your radio and your RCU are powered ON and in pairing mode.
2. To enter pairing mode on your RCU, press and hold the Trunk button while powering up the RCU.
3. Place the Bluetooth pairing spot on your RCU within one inch of the Bluetooth pairing spot on your radio.
4. Radio LED turns solid blue for two seconds and then blinking blue at heartbeat pace to indicate connection is successfully established.

PMLN6233_ Discreet Mission Critical Wireless RCU is recommended to use with your APX 3000 as it provides additional functionality to this radio.

Connecting to Display Remote Speaker Microphone (DRSM)

1. Turn off your Radio.
2. Align and attach the RSM's connector to your radio's side connector.
3. Secure by tightening the screw on the lower end of the connector.

Only DRSM supports the APX 3000 display capability.

Declaration of Conformity

This declaration is applicable to your radio ***only*** if your radio is labeled with the FCC logo shown below.

DECLARATION OF CONFORMITY

Per FCC CFR 47 Part 2 Section 2.1077(a)

Responsible Party
Name: Motorola Solutions, Inc.

Address: 1303 East Algonquin Road, Schaumburg, Illinois 60196, U.S.A.
Phone Number: 1-800-927-2744

Hereby declares that the product:

Model Name: **APX 3000**

conforms to the following regulations:

FCC Part 15, subpart B, section 15.107(a), 15.107(d) and section 15.109(a)

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Contents

This User Guide contains all the information you need to use the APX™ 3000 Series Digital Portable Radios.

Declaration of Conformity i

Important Safety Information vii

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios vii

Software Version viii

Notice to Users (FCC and Industry Canada) viii

Informations importantes sur la sécurité ix

Exposition aux radiofréquences et sécurité du produit pour radios bidirectionnelles portatives ix

Version du logiciel x

Avis aux utilisateurs (FCC et Industrie Canada) x

Computer Software Copyrights xi

Documentation Copyrights xi

Disclaimer xii

Getting Started 1

How to Use This Guide 1

Notations Used in This Manual 1

Additional Performance Enhancement 2

Dynamic System Resilience (DSR) 2

CrossTalk Prevention 2

Encrypted Integrated Data (EID) 2

SecureNet 2

What Your Dealer/System Administrator Can Tell You 3

Preparing Your Radio for Use 3

Charging the Battery 5

Battery Charger 5

Attaching the Battery‡ 5

Installing the Antenna 6

Attaching the Accessory Connector Cover 7

Installing Accessories with GCAI Connector 7

Turning On Your Radio‡ 8

Adjusting the Volume† 9

Pairing Radio with Pod and Earpiece†‡ 9

Pairing Radio with Mission Critical Remote Control Unit (RCU) 10
Using the Carry Holster 11
Inserting to the Carry Holster 11
Removing Your Radio from the Carry Holster 11
Tying Your Radio and Flexible Antenna to Your Body 12
Positioning Your Radio and Devices on Your Body 13
Installing the Flexible Antenna 13
Strapping the Antenna onto Your Body 15

Identifying Radio Controls 16

Radio Parts and Controls 17
Programmable Features 18
Assignable Radio Functions 18
Assignable Settings or Utility Functions 19
Accessing the Preprogrammed Functions 19
Multi-Functional Button (MFB) 19
Using Push-To-Talk (PTT) Button† 20

Identifying Status Indicators 20

Status Icons‡ 20
LED Indicator 22
LED Indicators in Surveillance Mode† 23
Intelligent Lighting Indicators‡ 24
Alert Tones† 25

General Radio Operation 28

Selecting a Zone† 28
Selecting a Radio Channel† 29
Using Mode Select Feature 30
Saving a Zone and Channel to a Mode Select Button† 30
Receiving and Responding to a Radio Call 31
Receiving and Responding to a Call‡ 31
Receiving and Responding to a Private Call (Trunking Only)†‡ 32
Receiving and Responding to a Telephone Call (Trunking Only)†‡ 32
Making a Radio Call† 33
Repeater or Direct Operation 33
Monitoring Features†‡ 34
Monitoring a Channel 34
Conventional Mode Operation 34

Advanced Features 35

Advanced Call Features 35
Receiving and Responding to a Selective Call (Conventional Only)†‡ 35

Using the Dynamic Regrouping Feature (Trunking Only)†‡ 36
Requesting a Reprogram (Trunking Only)†‡ 36
Classifying Regrouped Radios 37
Scan 37
Turning Scan On or Off‡ 37
Deleting a Nuisance Channel† 38
Restoring a Nuisance Channel 38
Call Alert Paging†‡ 39
Receiving a Call Alert Page 39
Emergency Operation†‡ 39
Sending an Emergency Alarm 40
Sending an Emergency Call (Trunking Only) 40
Sending an Emergency Alarm with Emergency Call 41
Sending a Silent Emergency Alarm 42
Using the Emergency Keep-Alive Feature 42
Man Down†‡ 43
Pre-Alert Timer 44
Post-Alert Timer 44
Alerting Tones When Man Down Feature is Triggered 44
Triggering Emergency 45
Exiting Man Down Feature 45
Re-Initiating Man Down 45
Testing the Man Down Feature 46
Secure Operations 47
Selecting Secure Transmissions†‡ 47
Selecting Clear Transmissions†‡ 47
Managing Encryption 48
Loading an Encryption Key† 48
Using the Multikey Feature 48
Erasing All the Selected Encryption Keys‡ 49
Requesting an Over-the-Air Rekey (ASTRO Only)†‡ 49
MDC Over-the-Air Rekeying (OTAR) Page 50
Infinite UKEK Retention 50
Hear Clear† 50
Using Radio Kill‡ 51
Using Direct Kill 51
Trunking System Controls†‡ 51
Using the Failsoft System 51
Going Out of Range 52
Using the Site Trunking Feature 52
Mission Critical Wireless - Bluetooth® -†‡ 53
Turning the Bluetooth On 53
Turning the Bluetooth Off 53
Re-Pair Timer 53
Bluetooth Drop Timer 54
Pairing the Bluetooth Device with Your Radio 55
Indicating the Bluetooth Connection is Lost 56

Turning the Bluetooth Audio On (Routing the Audio from Your Radio to the Headset) 56
Turning the Bluetooth Audio Off (Routing the Audio from the Headset to Your Radio) 57
Adjusting the Volume of Your Radio from Bluetooth Audio Device 57
Clearing All Bluetooth Devices Information 57
Programming Over Project 25 (POP 25) (ASTRO 25 and ASTRO Conventional) 58
Utilities 58
Flipping the Display on DRSM‡ 58
Controlling the Display Backlight‡ 58
Locking and Unlocking the Controls†‡ 59
Turning Voice Mute On or Off†‡ 59
Using the Time-Out Timer 59
Using the Conventional Squelch Operation Features 60
Analog Options 60
Digital Options 60
Using the Digital PTT ID Feature‡ 61
Using the Smart PTT Feature (Conventional Only) 61
Voice Announcement† 62
Helpful Tips 63
Troubleshooting 63
Caring for Your Radio 64
Cleaning Your Radio 65
Handling Your Radio 65
Servicing Your Radio 66
Taking Care of the Battery†‡ 66
Checking the Battery Charge Status 66
LED and Sounds 66
Fuel Gauge Icon 66
Battery Recycling and Disposal 67
Accessories 68
Highlights for the Accessories 68
Appendix: Maritime Radio Use in the VHF Frequency Range 69
Special Channel Assignments 69
Emergency Channel 69
Non-Commercial Call Channel 69
Operating Frequency Requirements 70
Declaration of Compliance for the User of Distress and Safety Frequencies 72
Glossary 73
Commercial Warranty 77

Important Safety Information

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

ATTENTION!

This radio is restricted to Occupational use only. Before using the radio, read the RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations.

For a list of Motorola-approved antennas, batteries, and other accessories, visit the following website:

http://www.motorolasolutions.com/APX

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter has been approved by Industry Canada to operate with the Motorola-approved antenna types with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Software Version

All the features described in the following sections are supported by the radio's software version **R10.00.00** or later.

Check with your dealer or system administrator for more details of all the features supported.

Notice to Users (FCC and Industry Canada)

This device complies with Part 15 of the FCC rules and RSS 210 of the Industry Canada rules per the conditions listed below:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.
3. Changes or modifications made to this device, not expressly approved by Motorola, could void the user's authority to operate this equipment.

Informations importantes sur la sécurité

Exposition aux radiofréquences et sécurité du produit pour radios bidirectionnelles portatives

ATTENTION!

Cette radio ne doit être utilisée qu'à des fins professionnelles. Avant d'utiliser la radio, lisez le guide Exposition aux radiofréquences et sécurité du produit pour radios bidirectionnelles portatives, qui contient d'importantes instructions de fonctionnement pour une utilisation sécuritaire et des informations sur l'exposition aux fréquences radioélectriques afin d'assurer la conformité aux normes et règlements applicables.

Pour obtenir une liste d'antennes et d'autres accessoires approuvés par Motorola, consultez le site Web: http://www.motorolasolutions.com/APX

Selon la règlementation d'Industrie Canada, cet émetteur radio ne peut être utilisé qu'avec une antenne dont le type et le gain maximal (ou minimal) sont approuvés par Industrie Canada pour cet émetteur. Afin de limiter les interférences radio pour les autres utilisateurs, le type et le gain de l'antenne doivent être choisis de façon à ce que la puissance isotrope rayonnée équivalente (P.I.R.E.) ne soit pas plus forte qu'il ne le faut pour établir la communication.

Le présent émetteur a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne agréés par Motorola et ayant un gain admissible maximal ainsi que l'impédance requise pour chaque type d'antenne indiqué. Les types d'antenne non inclus, dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Version du logiciel

Toutes les fonctionnalités décrites dans les sections suivantes sont prises en charge par la version du logiciel **R10.00.00** ou ultérieure de la radio.

Vérifiez auprès de votre détaillant ou de l'administrateur de système pour obtenir des renseignements sur les fonctionnalités prises en charge.

Avis aux utilisateurs (FCC et Industrie Canada)

Cet appareil est conforme à la Partie 15 des règlements de la FCC et RSS 210 du règlement d'Industrie Canada selon les conditions énumérées ci-dessous:

1. Ce dispositif ne doit pas causer d'interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue, y compris les interférences qui peuvent perturber le fonctionnement.
3. Les changements ou les modifications apportées à ce dispositif, non expressément approuvées par Motorola, peuvent annuler le droit de l'utilisateur à utiliser cet équipement.

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Getting Started

Take a moment to review the following:

How to Use This Guide . . . . . page 1
Notations Used in This Manual . . . . . page 1
Additional Performance Enhancement . . . . . page 2
What Your Dealer/System Administrator Can Tell You . . . . . page 3

How to Use This Guide

This User Guide covers the basic operation of the APX™3000 Portables.

However, your dealer or system administrator may have customized your radio for your specific needs. Check with your dealer or system administrator for more information.

Notations Used in This Manual

Throughout the text in this publication, you will notice the use of **WARNING**, **Caution**, and **Note**. These notations are used to emphasize that safety hazards exist, and the care that must be taken or observed.

An operational procedure, practice, or condition, etc., which may result in injury or death if not carefully observed.

An operational procedure, practice, or condition, etc., which may result in damage to the equipment if not carefully observed.

Note: An operational procedure, practice, or condition, etc., which is essential to emphasize.

Additional Performance Enhancement

The following are some of the latest creations designed to enhance the security, quality and efficiency of your radios.

Dynamic System Resilience (DSR)

DSR ensures your radio system is seamlessly switched to a backup master site dynamically in case of system failure. DSR also provides additional indication e.g. failure detection, fault recovery, and redundancy within the system to address to you who is in need. Mechanisms related to the Integrated Voice and Data (IV & D) or data centric are all supported by DSR.

CrossTalk Prevention

This feature prevents crosstalk scenario from happening, especially when a wideband antenna is used. This feature allows the adjustment of the Trident Transmitting SSI clock rate in your radio to be varied from the Receiving Frequency. This subsequently reduced the possibilities of radio frequency interfering spurs and prevents the issues of crosstalk.

Encrypted Integrated Data (EID)

EID provides security encryption and authentication of IV & D data bearer service communication between your radio and the Customer Enterprise Network.

SecureNet

SecureNet allows you to perform secured communications on an Analog or Motorola Data Communication (MDC) channel. The MDC OTAR feature will allow you to perform OTAR activities on an MDC channel.

What Your Dealer/System Administrator Can Tell You

Check with your dealer or system administrator for the correct radio settings, if your radio is to be operated in extreme temperatures (less than -30 °C or more than +60 °C), to ensure proper operation.

You can also consult your dealer or system administrator about the following:

- Is your radio preprogrammed with any preset conventional channels?
- Which buttons have been preprogrammed to access other features?
- What optional accessories may suit your needs?

Preparing Your Radio for Use

APX 3000 is a small body radio meant to work together with other light weight accessories such as Mission Critical Wireless Remote Control Unit (RCU), headset and pod in order to interact with you efficiently.

IMPORTANT!

1 Your radio has a Voice Announcement feature (programmable) which provides **audible status** updates of your radio function through the **speaker microphone, earpiece** or **headset**. This helps to confirm the changes you have made when interacting with your radio in covert. See **Voice Announcement†** on **page 62** to learn how this feature works.

2 You must connect a **GCAI Display Remote Speaker Microphone (DRSM**) to see the radio status displayed in words or icons. Most of these radio statuses are mentioned in the content across this manual.

Throughout the text in this publication, notice the use of the symbols shown below. They are to remind you that an external accessory is required to see or hear the indications of your radio during an operation procedure, practice, or condition etc., which:

† Requires to connect a **speaker microphone**, **earpiece** or **headset** to your radio to hear the audio tones or announcements.

‡ Requires to connect a **DRSM** to your radio to read the strings or indications displayed on your radio.

The application of these accessories are optional. Consult your agent for the most suitable features and accessories required for you to work with this radio.

Assemble your radio by following these steps:

Charging the Battery . . . . . page 5
Battery Charger . . . . . page 5
Attaching the Battery‡ . . . . . page 5
Installing the Antenna . . . . . page 6
Attaching the Accessory Connector Cover . . . . . page 7
Installing Accessories with GCAI Connector . . . . . page 7
Turning On Your Radio‡ . . . . . page 8
Adjusting the Volume† . . . . . page 9
Pairing Radio with Pod and Earpiece†‡ . . . . . page 9
Pairing Radio with Mission Critical Remote Control Unit (RCU) . . . . . page 10
Using the Carry Holster . . . . . page 11
Inserting to the Carry Holster . . . . . page 11
Removing Your Radio from the Carry Holster . . . . . page 11
Tying Your Radio and Flexible Antenna to Your Body . page 12
Positioning Your Radio and Devices on Your Body . page 13
Installing the Flexible Antenna . . . . . page 13

Charging the Battery

To avoid a possible explosion:

- **DO NOT** replace the battery in any area labeled “hazardous atmosphere”.
- **DO NOT** discard batteries in a fire.

The Motorola-approved battery shipped with your radio is uncharged. Prior to using a new battery, charge it for a minimum of 16 hours to ensure optimum capacity and performance.

For a list of Motorola-authorized batteries available for use with your radio, see ***Accessories*** on page 68.

Note: When charging a battery attached to your radio, turn your radio off to ensure a full charge.

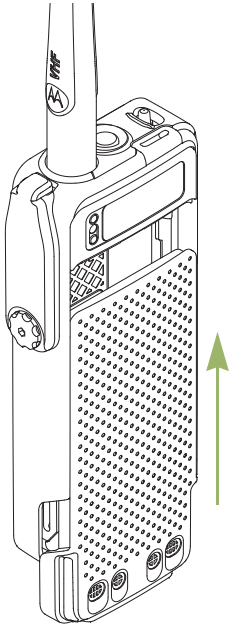
Battery Charger

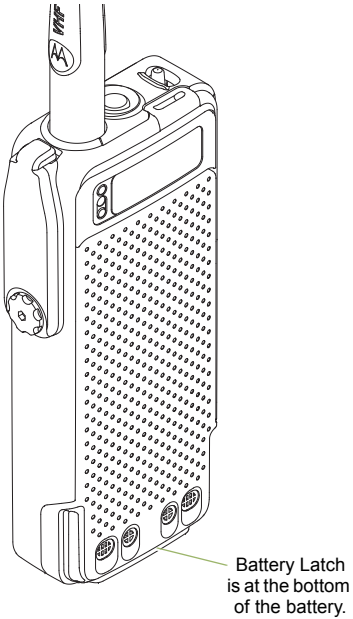
To charge the battery, place the battery, with or without your radio, in a Motorola-approved charger. The charger’s LED indicates the charging progress; see your charger’s user guide.

For a list of chargers, see ***Accessories*** on page 68.

Attaching the Battery‡

With your radio turned off, slide the battery into your radio’s frame until the bottom latch clicks into place.





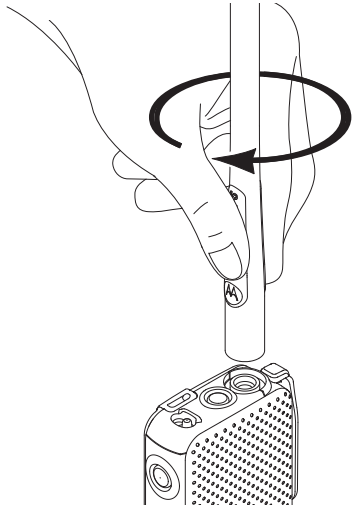
To remove the battery, turn your radio off. Lift up the latch then slide the battery down to remove the battery from your radio.

Note: If your radio is preprogrammed with volatile-key retention, the encryption keys are retained for approximately 30 seconds after battery removal. Check with your dealer or system administrator for more information.

You can view the status of the IMPRES™ battery if your radio is using an IMPRES™ battery. See **Checking the Battery Charge Status** on page 66 for more information.

Installing the Antenna

With your radio turned off, set the antenna in its receptacle and turn clockwise to attach it to your radio.



To remove the antenna, turn the antenna counterclockwise. Make sure you turn off your radio first.

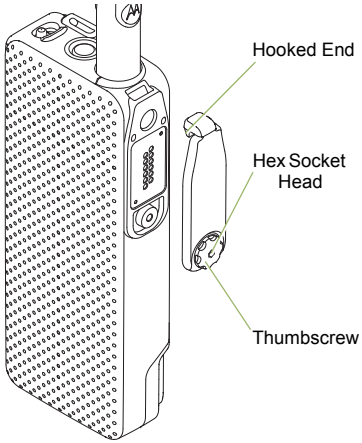
Note: For Flexible Antenna, see **Tying Your Radio and Flexible Antenna to Your Body** on page 12 for proper steps to strap it to your body.

Attaching the Accessory Connector Cover

The accessory connector is located on the antenna side of your radio. It is used to connect accessories to your radio.

Note: To prevent damage to the connector, shield it with the connector cover when not in use.

Insert the hooked end of the cover into the slot above the connector. Press downward on the cover's top to seat it in the slot. Once in place, rotate the thumbscrew clockwise by hand until tight.

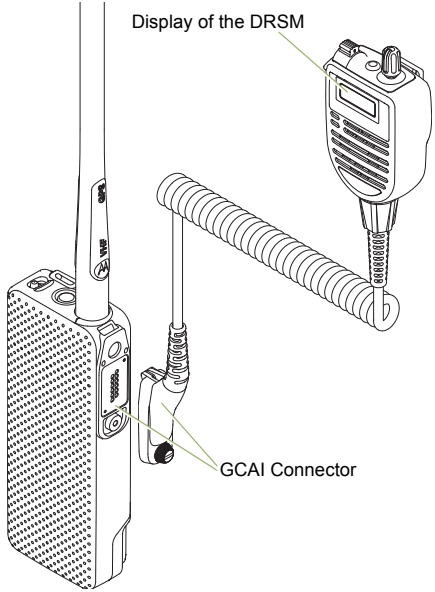


To remove the accessory connector cover, rotate the thumbscrew counterclockwise until it disengages from your radio. If the thumbscrew is too tight, use an Allen wrench to loosen it first.

Rotate and lift the connector cover to disengage it from your radio.

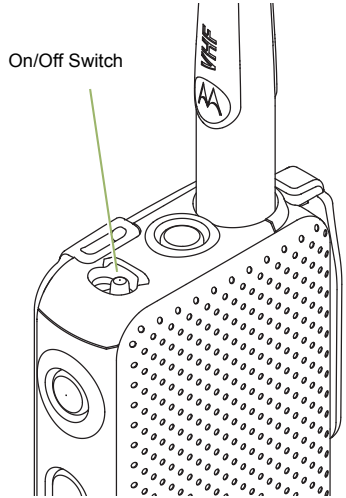
Installing Accessories with GCAI Connector

Connect a GCAI DRSM to see the icons and strings and hear audio alerts and transmission of your radio. You can also hear the audio alerts with a GCAI Surveillance Earpieces.



Turning On Your Radio‡

Push the On/Off Switch to turn the power on or off. You see a green spot when the switch is in the ON position.



If the power-up test is successful, you see momentary **MOTOROLA** on the DRSM.

Note: If the power-up test is unsuccessful, you see **ER XX/YY** (**XX/YY** is an alphanumeric code) on your DRSM screen. Turn off your radio, check the battery, and turn on your radio.

If your radio fails the power-up test again, record the **ER XX/YY** code and contact your dealer.

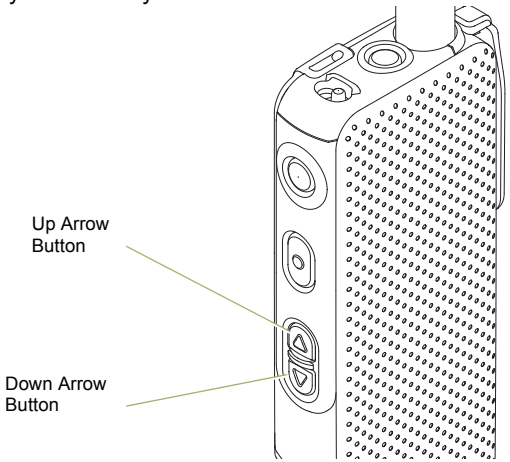
Note: If the power-up test is successful, but you see **HW BRD ABSENT** or **HW BRD MISMATCH** on your DRSM screen, send your radio to the qualified technician to fix this error.

If the power-up test is successful, but you see **HW BRD FAILED** or **MAND HW ERROR** on your DRSM screen, send your radio to the qualified technician to fix this error.

*To turn off your radio, push the **On/Off Switch** until you do not see the green spot.*

Adjusting the Volume†

By default, press the Up and Down Arrow Button to adjust the volume you hear on your headset.



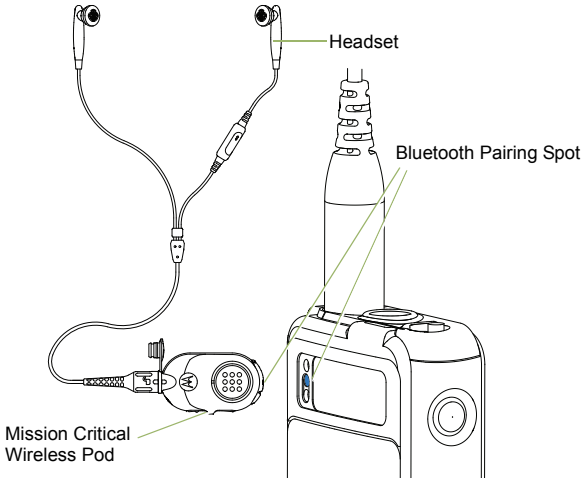
Please refer to your agent or qualified radio technician if you need to enable the Up and Down Arrow Button with other function.

Note: When using DSRM or headset, ensure that the main speaker is pointed towards you for increased loudness and intelligibility, especially in areas with loud background noises.

Ensure the Up and Down Arrow Button is in Volume mode by pressing the Multi Function Button (MFB) to toggle to Volume mode.

MFB must be preprogrammed to a programmable button.

Pairing Radio with Pod and Earpiece†‡



Plug the earpiece to the wireless Pod.

Verify that both your radio and pod are powered ON and in pairing mode. Place the Bluetooth pairing spot on your Pod within one inch of the Bluetooth pairing spot on your radio.

Your radio Blue LED lights up solid for 2 seconds once connected and followed by blinking blue at heartbeat pace to indicate there is Bluetooth device connected to your radio.

Note: Ensure the microphone is not covered when you speak into the microphone.

Your Pod can function as a standalone PTT device without the earpiece.

Pairing Radio with Mission Critical Remote Control Unit (RCU)

Verify that both your radio and RCU are powered ON and in pairing mode.

On your RCU, press and hold the Trunk button while powering up your RCU to enter pairing mode.

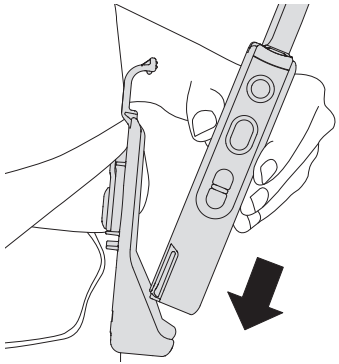
Place the Bluetooth pairing spot of your RCU within one inch of the Bluetooth pairing spot of your radio.

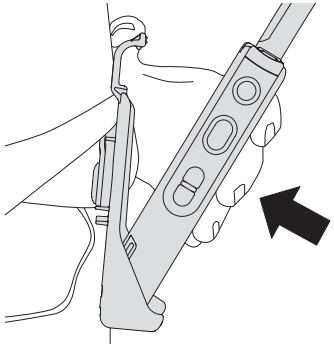
Your radio Blue LED lights up solid for 2 seconds once connected and followed by blinking blue at heartbeat pace to indicate there the Bluetooth device is connected to your radio.

Using the Carry Holster

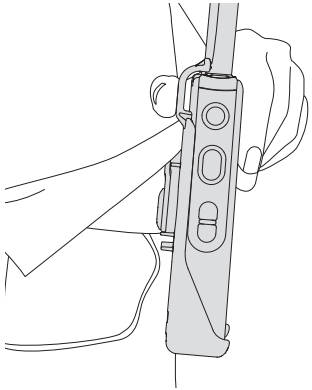
Inserting to the Carry Holster

Position your radio within the carry holster with the LEDs facing inward. Slide your radio down into the carry holster.





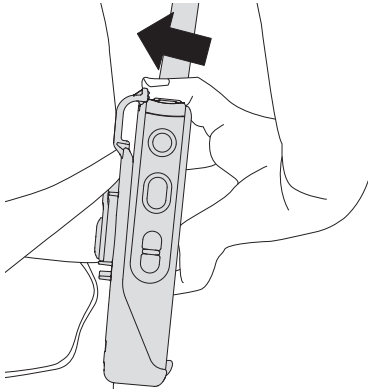
Push your radio to the carry holster until it clicks in place.

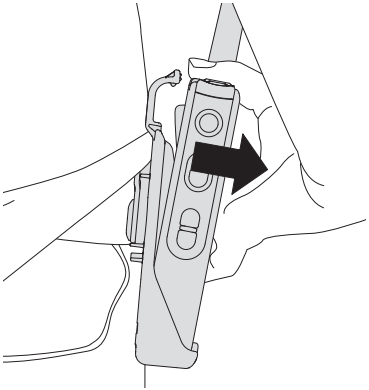


Your radio is successfully secured to the carry holster.

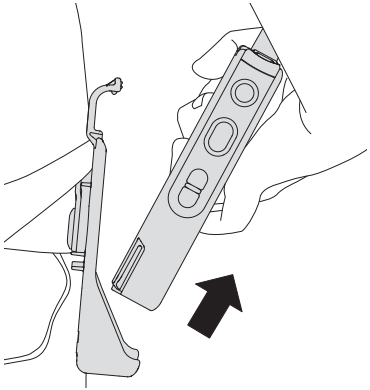
Removing Your Radio from the Carry Holster

Push the hook of the carry holster to release your radio top.





Pull your radio out from the carry holster.

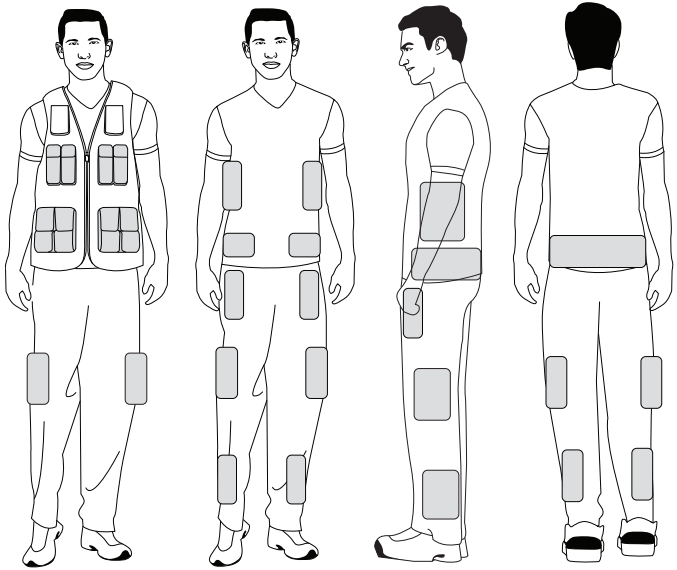


Tying Your Radio and Flexible Antenna to Your Body

Note: When using this antenna, use only Motorola-approved batteries, wired surveillance and wireless audio accessories. Using approved wired surveillance and wireless audio accessories is important because the use of non-Motorola approved accessories may result in exposure levels, which exceed the occupational/ controlled environment RF exposure limits.

Positioning Your Radio and Devices on Your Body

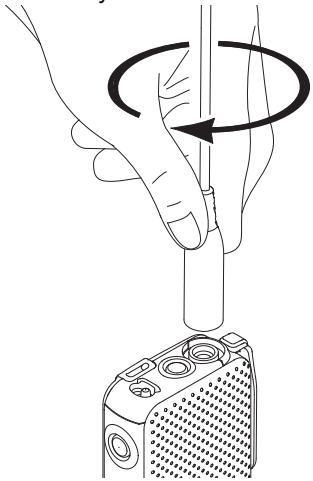
APX 3000 radio is designed to be operated while concealed under your outer garments. See the following pictures for the recommended position to place your radio.



Note: Securely tape or strap **only** the battery side of the radio to your body.

Installing the Flexible Antenna

With your radio turned off, set the antenna in its receptacle and turn clockwise to attach it to your radio.

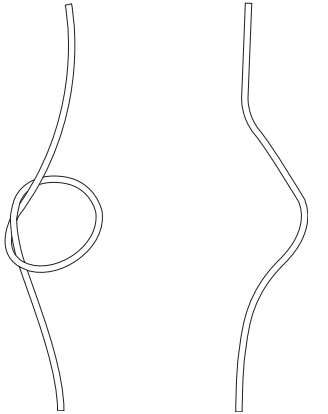


Note: The tightening torque allowable is 15 lb-ft (maximum) to avoid damage to the antenna and radio.

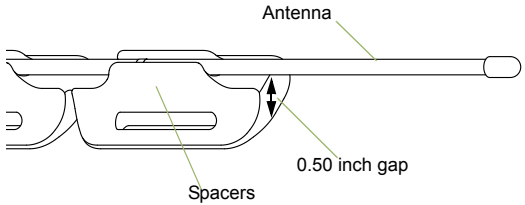
To remove the antenna, turn the antenna counterclockwise. Make sure you turn off your radio first.

Caution

- Do not twist or coil the antenna because this will result in antenna performance degradation. See pictures below.



Not recommended Acceptable

Caution

- To satisfy compliance with RF Exposure standards and improve radio performance, use the spacers provided to maintain a distance of 0.50 inch (1.27 cm) from your body. See the detail picture below.