



User Manual

AWR-D7500

Digital Portable Radio



Thank you!

Thank you for purchasing this AWR-D7500 DMR Digital two-way radio by Advanced Wireless Communications (AWC). The AWR-D7500 delivers the latest technology, has the most stable components, and has the most advanced production technology. The AWR-D7500 radio will provide you with reliable performance and high quality you demand.

This manual should be read to ensure that the user understands the operation of the AWR-D7500. Please read the Safety Information Manual before use.

Safety Instructions

Please observe the following safety tips to prevent fire, accidents, personal injury or equipment damage.

Do not modify the radio or its charger in any way.

Do not expose the radio to direct sunlight for extended periods of time, leave near heaters or other heat sources.

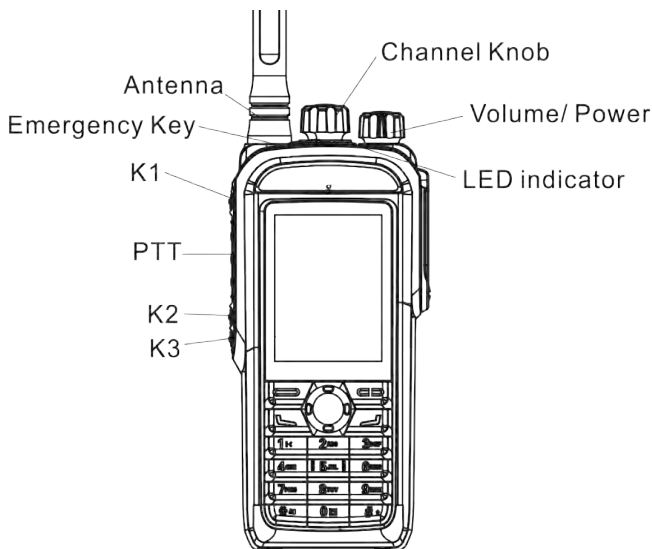
Do not store or use unprotected radios for prolonged periods in areas of high dust or excessive moisture.

Users may experience signal interference if the unit is used near devices such as TV or electric generators.

If the unit emits smoke or you notice a strange smell, immediately turn off the power, and send it to the closest repair service station.

The radios are small but contain high power components. It is not uncommon to notice slight warming of the handset. This is normal and the unit may continue to be used.

If there is any problem with the radio, please contact Advanced Wireless Communications or your local distributor.



Turn on

Turn the Volume/Power knob clockwise to turn the radio on.
(Some radios are programmed to emit a tone when powered on).

Turn off

Turn the Volume/Power knob counter clockwise to turn the radio off,
you will hear a sound when the radio is turning off.

Volume adjustment

Press and hold down the squelch key off momentarily to hear the
continuous beep and turn the volume/power knob to adjust.

Three way to choose channel

- 1 Channel knob: rotate the "channel control" to choose the channel
you need.
2. Channel button: choose the channel you need.
3. Input: when the keyboard is in the channel mode, you can directly
enter the channel number needed.

Transmit and receive

Press the PTT button to enter the transmit state. The Red LED will
light.

Release the PTT button to revert back to the receive state, the green
LED will light when voice or data is received.

Advanced Wireless Communications Radio Quality Warranty and Liability

The warranty range and limitation

Advanced Wireless Communications (AWC) is committed to quality and stands behind its products. AWC will, during the warranty period specified for each product, repair or replace components that fail as a result of poor workmanship or materials. This warranty does not cover improper use or intentional damage.

The warranty policy does not include the following conditions:

1. Defects or damages caused by working in abnormal or unusual situations.
2. Defect or damages caused by misuse, accident, or water submersion.
3. Defect or damages caused by unauthorized installation, repair, tampering or adjustment.
4. Warranty does not extend to cosmetic scratches or damages as a result of normal use or misuse.
5. This warranty is void if:
 - (a) The product information label on the back aluminum case is removed, or if the serial number is tampered with, changed or cannot be identified.
 - (b) If the battery case is damage, tampered with or unsealed.

General Items

This warranty policy establishes the liability limits for which AWC is responsible. AWC has the right to decide, at their sole discretion, whether to repair, replace, or refund the purchase price of any equipment subject to this warranty. There are no other options available under this warranty. This express warranty is the complete agreement. **OTHER THAN AS EXPRESSLY SET OUT IN THESE TERMS OR ADDITIONAL TERMS, NEITHER AWC NOR ITS SUPPLIERS OR DISTRIBUTORS MAKE ANY SPECIFIC PROMISES ABOUT THE SERVICES OR PRODUCTS.**

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Unpacking and device check

Please take the radio out of the package carefully and before disposing of the packing materials, check the accessories according the the following list. If any part is lost or damaged, please submit a claim letter to the carrier or deliverer.

Accessories:

Items	Quantity
Antenna	1
Belt clip	1
Power supply	1
Battery	1
Charger	1
Lanyard	1
Instruction manual	Available at www.advancedwireless.com
Warranty card	Available at www.advancedwireless.com



Antenna



Belt clip



Lanyard



Power supplier



Charger



1800mAh
Li-ion battery

Battery information

Battery protection

This product uses lightweight, environmentally friendly lithium-ion batteries as a power source.

1. Be sure to use the original AWC charger to charge the battery.
2. When charging radios, please power off the radios to ensure battery can be fully and effectively charged.
3. New, uninstalled batteries can be stored for a long period, but should be stored in a cool, dry place. They should be recharged once every three months to maintain the battery's electrical properties, otherwise it will be damaged and will not function properly.
4. New batteries need to be fully charged before use.
5. Use only the battery charger and power supply specified by AWC. Use of non-authorized charging systems will void the warranty of both the battery and the equipment.
6. Avoid extreme temperatures as this will effect capacity of the battery.
7. The battery cannot be stored in hot or cold places, otherwise it will reduce battery capacity and useful life. The battery should always be stored at normal temperature, and radios equipped with cold batteries may temporarily not work, even if fully charged.
8. Do not let the metal stripes on the battery come into contact with metal objects (such as metal benches, pins, etc) as this may cause the battery to short circuit.
9. Always dispose of old or damaged batteries In accordance with local recycling laws.
10. NEVER discard or expose batteries to fire, this may result in an explosion and serious injury or death.

Battery information (continued)

Battery Usage

1. Do not use, install or attempt to charge damaged batteries.
2. Do not use batteries in any other equipment other than that which it is designed for.
3. Battery charging time varies and is determined by the remaining capacity of the battery and the battery and charger type. The battery can be repeatedly charged and discharged more than 300 times, but they will age with use. Aging will occur quicker when batteries are used for short periods and then recharged. Batteries should be allowed to fully discharge before charging to prolong battery life.
4. Batteries that are stored and unused discharge over time.

Preparation

Installing the battery



Assemble: Align the battery with the radio chassis, push forward and down until the battery clicks in place.



Disassemble: Lift battery catch on bottom of battery, lift up and pull away from chassis.

Assemble the antenna



Insert antenna's threaded connector into radio's antenna connector. Thread clockwise until snug. Do not over tighten.

Preparation

Assemble the belt clip



Assembly: Attach belt clip using the provided screws by aligning screws with threaded holes in chassis.

Disassemble the belt clip



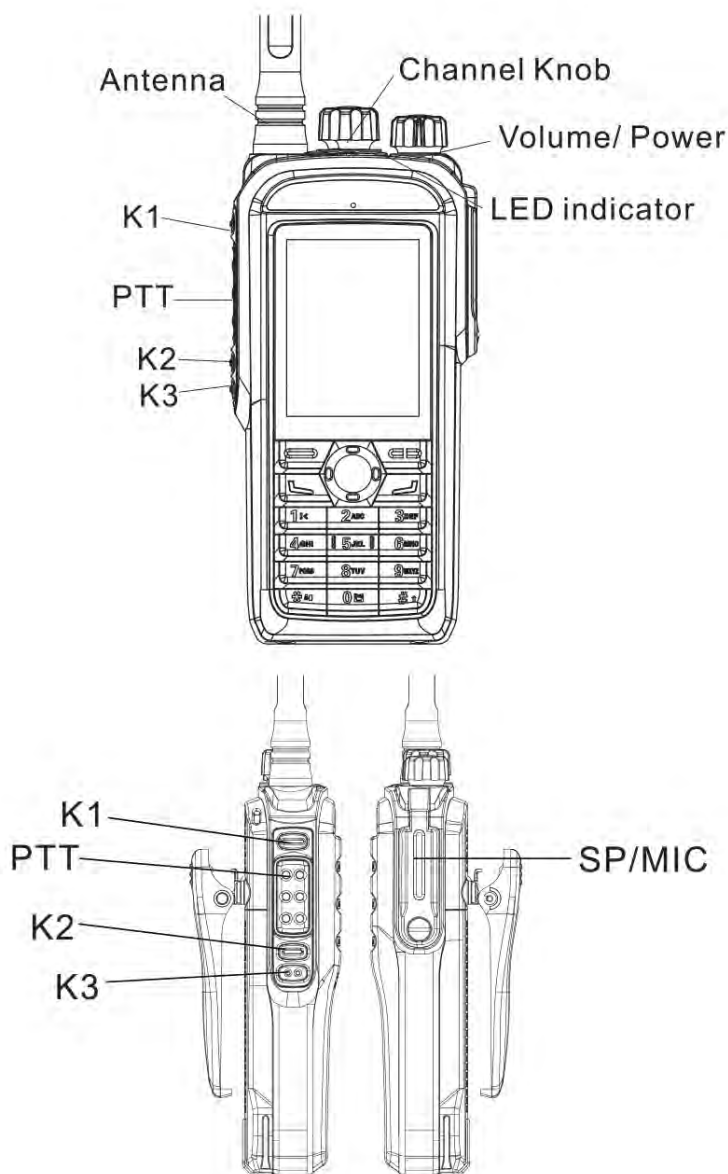
Disassemble: Unscrew the screws holding the belt clip and remove belt clip from chassis.

Insert the earphone



Open the rubber cover to insert the Earphone .

Function Key



Charging the Battery

Use only the charger and battery specified by Advanced Wireless Communications. Charger LED can indicate the charging process.



Charger Indicator

Indicator	Charge Status
Red flash	Standby
Red glows	Charging
Green glows	Fully charged

LED Indicator of Transceiver

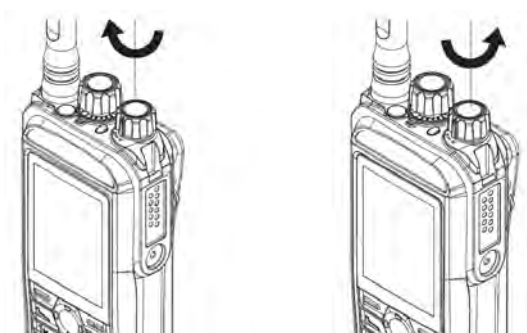
Indicator	Charge Status
Green glows 2-3S	Power-on cycle
Green glows	Receiving signal
Green flash	Received
Red glows	Transmitting
Red flash	Battery low will be indicated by the red LED flashing and an audible beep. Please charge or replace the battery as soon as possible to ensure normal operation.

Function and basic operation

Turning your radio on and off

Power on: Turn selector (power switch/ volume control knob) clockwise. Click will be heard when selector turns the radio on. If programmed, a power-on tone will be heard and the radio will enter the receive state.

Power off: Turn selector (power switch/ volume control) counterclockwise until a click is heard. This indicates that the radio is powered off.



Switch channel

When you need to make a call on a specific channel, rotate the channel knob to the desired channel. If the channel broadcast function is enabled, the channel number will be announced locally. If a channel has not been populated via programming, a continuous tone will be heard from the radio.

Push-to-talk operation

Select the desired channel with the channel selector.

Transmit: Hold the radio in a vertical position approximately 2.0 cm (1.0 inches) from your lip. Press the PTT and speak.

Receive: The LED indicator will light green  when a signal is received and the speaker will emit audio. Adjust the volume control knob for a comfortable level.

LCD icons

Icon Name	Icon Display	Status Description
VOX		Voice operated function.
Emergency alarm		The radio is in an emergency alarm state or receives an emergency alarm.
Battery power		Display remaining battery power.
		
		
		
		
		
Transmitting indicator		The radio is transmitting.
Signal indicator		The radio is receiving signal.
		No signal.
Transmit power	L	Current channel power is low power.
	H	Current channel power is high power.
Speaker		Squelch and speaker turned on.
Monitor		Has enabled monitoring.
Scan		The radio is in the scan state.
Lock		Keyboard locked.
Off-network		The off-network function is turned on. [some radios do not have this function]
Signaling	CT	CT has been set to transmit or receive QT.
	DN	DN has been set to transmit or receive DQTN.
	DI	DI has been set to transmit or receive DQTI.

Product operation instructions

Keyboard introduction

The AWR-D7500 has three keyboard modes: channel number mode, DTMF mode, and call ID. Users can select different keyboard modes according to their needs, thus achieving simple and fast operation.

Channel number mode: After the user selects the channel number mode, the required channel number can be directly written through the keyboard, and the Radio automatically jumps to this channel.

DTMF mode: After the user selects DTMF mode, the user can input DTMF code through the keyboard.

Call ID: After the user selects the call ID, the user can input a user ID number through the keyboard and then directly call the other party.

Working Mode

The AWR-D7500 has three operating modes: Computer mode, debug mode, and user mode. Each mode is entered in a different way.

Entry conditions for each mode:

Mode Type	Button Description
Computer mode	Connect to Computer with write USB cable
Debug mode	Enter the debug mode by CPS (the CPS determines whether to enter)
User mode	Automatically enters user mode when powered on

Computer mode

After booting, the Computer software is used to control the Radio to enter this mode. In the Computer mode, only the read/write and debugging operations can be performed. The contents displayed on the LCD are: "PC LINK".

Read from radio

During reading, a progress bar shows the reading process "reading ", the red light flashes. When this process is finished, a "Read Successfully" window appears. The reading error display content: the middle "reading error", the orange light flashes, and there is beep.

Write to radio

During reading, a progress bar shows the reading process "Writing ... ", the red light flashes. When this process is finished, a "Write Successfully" window appears.

The reading error display content: the middle "Writing error", the orange light flashes, and there is beep.

User Mode

1. Power ON / OFF

Power on: Turn the [Power Switch/Volume Control Knob] clockwise to hear the “K” sound, the Radio is turned on, and if the power-on prompt tone is set, a power-on tone will sound and the boot logo will be displayed. The display mode will differ based on selection as shown below.



Once powered on, radio will enter the receive state. Shutdown: Turn the Power Switch / Volume Control counter-clockwise until it clicks. An audible beep will sound and the display will show the shutdown screen.

2. Switching channels

To switch channels, rotate the Channel Knob or use the keyboard mode to input the desired channel number. If the voice announcement is enabled then the channel number will be announced. The LCD will display the channel information based on the selected display mode.

The display mode selection is shown in Figure 1 as the channel number; and the channel mode selection as the alias is shown in Figure 2. Figure:



(Fig. 1)



(Fig. 2)

3. Call operation

Transmitting: Press and hold the PTT button, with the mouth 3 to 5 cm (1 to 2 in.) away from the microphone. The screen will show the following.



Receiving: When the carrier is received, <1>· displayed. If there is no programmed signaling or the signaling is matched, the speaker will emit sound. Adjust the volume knob to change the sound level as required.

Note: If the receive LED is lit green but no sound is heard, the signaling may be incorrect.

4. Programmable function key function

There are four programmable function keys that may be defined in software. These buttons are noted as K1, K2, K3, and TK. Programmable buttons can be modified by the CPS.

Programmable button function definition list

Button	Status	Button Assignment Function
K1	Short Press	No function; emergency alarm; cancel emergency alarm; voice control; power switching; steady state monitoring [analog]; transient monitoring [analog]; steady state cancellation squelch [analog]; transient cancellation squelch [analog]; Talk Around; off-line; scan; one-touch call 1 (DMR); one-touch call 2 (DMR); one-touch call 3 (DMR); one-touch call 4 (DMR); broadcast local ID [number]; broadcast channel Number; broadcast power; broadcast battery power;
K2 K3	Long Press	No function; emergency alarm; cancel emergency alarm; voice control; power switching; steady state monitoring [analog]; transient monitoring [analog]; steady state cancellation squelch [analog]; transient cancellation squelch [analog]; Talk Around; off-line; scan; one-touch call 1 (DMR); one-touch call 2 (DMR); one-touch call 3 (DMR); one-touch call 4 (DMR); broadcast local ID [number]; broadcast channel Number; broadcast power; broadcast battery power; broadcast channel type; serial port report (production version only);

Key function description:

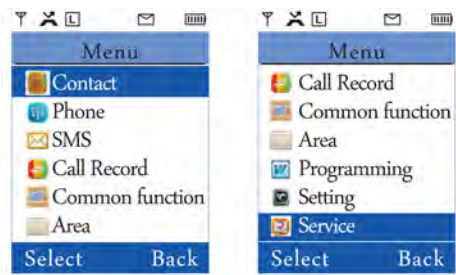
1. No function: No function definition, the button is invalid and there is an error tone.

2. Emergency alarm: Press this button to initiate an emergency alert, which is typically associated with the top orange button. Emergency is only supported by a short key press. A long key press is associated with emergency off.

- 3. Cancel emergency alarm:** Press this button to terminate an emergency alert. A long key press is associated with emergency off. Emergency is only supported by a short key press.
- 4. VOX:** Use this to enable or disable the function VOX.
- 5. Power switching:** Used to switch between high and low transmit power based on programming.
- 6. Analog monitor - continuous:** Continuous when key is toggled on.
- 7. Analog monitor - temporary:** Open squelch in analog when key is depressed.
- 8. Talk around:** Allows the user when on a repeater channel, to press key and talk on the repeater's output frequency. Toggle to return to repeater operation.
- 9. Scanning:** Press this button to turn the scan function on or off. After pressing the scan button, there is a "beep" prompt to enter scan. The green LED will flash during scan. Pressing the scan button will exit scan which is noted by two beeps.
- 10. One-click call 1~4 (DMR):** Short cut operation for selected features. press the one-touch key to start a preprogrammed function followed by PTT.

5. Menu

1. **Menu key:** Press the menu button to display the main menu interface, press the up and down keys, select the menu, and then press the menu selection button to confirm the selection.
- Press the Cancel Back button to return to the previous screen.
2. The main menu contains the following items depending on settings in the programming software.



3. **The submenus contained in the menu are as follows:** The submenu can also be set by the CPS. The following is just a rough framework, and the actual submenu may have a slight difference.



Menu item-- contact: select whether the contact list may be accessed via the menu or a contact may be selected for call.

Option description: checked, unchecked.

Checked: users can access the contact list.

Default: checked.

Contains common contacts, contact lists, new contacts, manual dialing.



Common contacts: Set whether to display the “Common Contacts” submenu item in the “Contact” menu of the Radio. End users can check through this submenu. Look at the “Common Contact List”, you can also add, view, and delete frequently used contacts, and send “Supplemental Services” to frequently used contacts.

Option description: checked, unchecked

Checked: the “Common Contacts” menu item is displayed.

Unchecked: the “Common Contacts” menu item is not displayed.

Default: checked.

Contact list: All the programmed contacts are displayed through this menu. In this directory, press PTT to directly call the selected contact.

Option description: check, uncheck.

Checked: show all contact lists.

Unchecked: do not display the contact list.

Default: checked.

New contact: you can choose whether you can create a new contact. A new contact may be created by entering the contact list and selecting New Contact.

Option description: check, uncheck.

Checked: users can create new contacts.

Unchecked: users cannot create new contacts.

Default: checked.

Manual Dialing: You can choose whether you can access the manual dialing function. If enabled, the user can enter the ID of the targeted contact by keypad to initiate a call.

Option description: check, uncheck.

Checked: users can enter the manual dialing function.

Unchecked: the user cannot activate the manual dialing function.

Default: checked.

Phone: Select whether you can access the phone function.

Option description: check, uncheck.

Checked: users can access the phone function.

Unchecked: users cannot access the phone function.

Default: checked.

Contains sub-menu items, phone contacts, manual dialing.



Short message: Text message and quick text message service that allows messages to be sent between users. Users may edit messages to be sent or store received messages.

Checked: users can access the information function.

Contains sub-menu short message, shortcut text, in box, outbox, draft box



New message: select this option to create a new message. Each message can contain up to 256 characters. Messages can be sent or saved.

Checked: users can create new text information.

Unchecked: users cannot create new text messages.

Default: checked.

Quick Text: A predefined message may be created within CPS and stored in the radio. Up to 25 can be stored for recall.

Checked: users can access text information.

Unchecked: users cannot access text information.

Default: checked.

In box: A receiving radio may automatically save up to 20 messages received. The user may review, edit, and forward.

Checked: users can access the outbox to view text.

Unchecked: users cannot access the In box.

Default: check.

Outbox: A radio may automatically save up to 20 messages created locally. The user may review, edit, and forward.

Checked: users can view or send text messages.

Unchecked: users cannot access the Outbox.

Default: checked.

Drafts: A user may save up to 20 draft text messages before sending them. They may be accessed, edited or sent as needed.

Checked: users can access drafts to edit or send text messages.

Unchecked: users cannot access drafts.

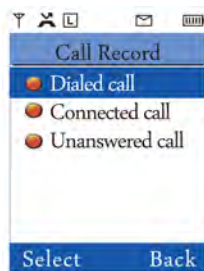
Default: checked.

Call record: Allows user to view record of calls sent, answered, and received.

Checked: users can view the call log.

Default: checked.

Contains sub-menu items, received calls, placed calls, missed calls.



Received call: After selecting this option, the user can view the received call records (up to the latest 10 records can be stored) and can initiate call.

Checked: users can view the received call records.

Unchecked: users cannot view a call record.

Default: checked.

Dialed call: After selecting this option, the user can view the outgoing call record (up to the latest 10 records can be stored) and can initiate call.

Checked: users can view the dialed call history.

Unchecked: users cannot view the dialed call history.

Default: checked.

Missed calls: user can view up to 10 unacknowledged calls and initiate a return call without using the contact list.

Checked: users can view the missed call record.

Unchecked: users cannot view missed call records.

Default: checked.

Channel: this parameter allows you to configure whether the Channel option will be available in the radio's menu . It contains:

Checked: the Channel option will be available in the radio's menu.

Default: unchecked.



Slot: This parameter allows you to configure whether the Slot option will be available in the radio's menu . If you have checked it, the user can modify the slot for transmission and receiving on the current digital channel. For details, please refer to the use of the parameter.

Checked: the Slot option will be available.

Unchecked: the Slot option will be unavailable.

Default: unchecked.

Color code: this parameter allows you to configure whether the Color Code will be available in the radio's menu. If you have checked it, the user can modify the value of the color code of the current digital channel. For details please refer to the use of the parameter.

Checked: the Color Code option will be available.

Unchecked: the Color Code option will be unavailable.

Default: unchecked.

CTCSS / CDCSS: This parameter allows you to configure whether the CTCSS/CDCSS option will be available in the radio's menu . If checked, the user can modify the current signaling on the analog channel via the menu.

Checked: the TX CTCSSCDCSS and RX CTCSSCDCSS options will be displayed.

Unchecked: the TX CTCSSCDCSS and RX CTCSSCDCSS options will not be displayed.

Default: unchecked.

Tx contact name: This parameter allows you to configure whether the Tx Contact Name option will be available in the radio's menu . If checked, the user can modify the current digital channel.

Checked: the Tx Contact Name option will be available.

Unchecked: the Tx Contact Name option will be unavailable.

Default: unchecked.

Rx group list: this parameter allows you to configure whether the Rx Group List will be available in the radio's menu. If checked, the user can modify the current digital channel.

Checked: the Rx Group List option will be available.

Unchecked: the Rx Group List option will be unavailable.

Default: unchecked.

Channel alias: this parameter allows you to set whether the "Channel Alias" option is included on the radio menu. If included, the radio user can modify the channel alias.

Checked: the Channel Alias option is included.

Unchecked: the Channel Alias option is not included.

Default: unchecked.

Note: this parameter is available only when "channel" parameter is selected.

Safety information

This manual provides you with safety instructions for the AWC AWR-D7500 portable two-way radio.



Operation and electromagnetic exposure

Press PTT, hold the radio in a vertical position from 2.0 to 5.0 cm (1 to 2 inches) away from lips. Insure that the antenna is at least 2.5 cm away from your head and body when transmitting.

Electromagnetic Interference (EMI) / Electromagnetic Compatibility (EMC)

All electronic devices are subject to and may be affected by EMI unless proper compatibility design and testing have been accomplished. Radios should be powered off if unsure of EMI / EMC effects. Radios should be powered off aboard aircraft and the user shall adhere to the any and all airline requirements for RF emitters.

Operation warning

Radios including mobiles and portables shall not be mounted permanently or temporarily in areas of vehicles that use air bag safety restraint systems. Placing devices on or near air bags during deployment pose a safety hazard to the occupants of the vehicle.

Environment with explosion risk

Radios shall be powered off when in environments that pose an explosion risk unless the radio has received FM or Cenelec approval with certificate. In such environments, a small spark may lead to an explosion, fire, damage and death.

In the blast area or area with detonator

Radios shall be powered off near to and within an blasting area where detonators or other explosive materials are in use or stored.



Caution

Damaged antenna

Damaged antennas shall be replaced. Exposure to the metallic portions of a damaged antenna can lead to burns.

Battery

Batteries shall not be changed or charged in explosive risk environments. Minor flames and / or sparks can lead to an explosion.

Any metal conductor, such as jewelry or keys, touching the battery contacts may lead to a short circuit condition that may result in a fire or burn. Care should be exercised to insure that the battery contacts are not allowed to touch other objects.

Radio's maintenance

1. Chemicals such as alcohol, cleaning fluids, and petroleum based products will damage the radio surfaces.
2. Do not pick up the radio using the antenna or purposely stress the housing and belt clip.
3. Please close the dust proof cover to protect the Microphone/speaker jack while not using an accessory.
4. Clean the surface of the radio with only a damp cloth using water. Insure that none of the water enters the radio case.
5. Unrecognized accessories may damage the radio and in this case our warranty will be unavailable.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then 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 different circuit to that of the receiver's outlet.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

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

Note: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Compliance and Control Guidelines and Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environmental exposure limits, always adhere to the following procedures.

Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) key. To receive calls, release the PTT key. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy only when transmitting (in terms of measuring for standards compliance).
- Keep the radio unit at least 2.5 cm away from the face. Keeping the radio at the proper distance is important as RF exposure decreases with distance from the antenna. The antenna should be kept away from the face and eyes.

- When worn on the body, always place the radio in a approved holder, holster, case, or body harness or by use of the correct clip for this product. Use of non-approved accessories may result in exposure levels which exceed the FCC's occupational/controlled environmental RF exposure limits.
- Use of non-approved antennas, batteries, and accessories causes the radio to exceed the FCC RF exposure guidelines.
- Contact your local dealer for the optional accessories of the product.

ISED Statement

The device has been tested and complies with SAR limits, users can obtain Canadian information on RF exposure and compliance

Après examen de ce matériel aux conformité aux limites DAS et/ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquérir les informations correspondantes

This device complies with Innovation, Science and Economic Development Canada Compliance license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement