

**Congratulations and Thank You for selecting
 the PRODIGI RDR43x0 Series portable two-way
 radio from RCA Communications Systems
 - The most trusted name in radio!**

Our newest digital series professional communications products based on DMR technology establishes a benchmark in premium digital two-way radio equipment, made to perform flawlessly under the most demanding commercial conditions. Cutting edge design, high-end professional grade materials and components, simple operation and superior assembly quality: RCA Communications Systems has it all, including our exclusive no-nonsense, three-year "Warranty Protection Program," one of the most comprehensive warranties in the communications industry.

To ensure you achieve maximum performance from your RDR4320™, RDR4350™, or RDR4380™ radio, please be sure to carefully read this manual.

MODELS COVERED IN THIS MANUAL:

- RDR4320™ VHF Two-Way Radio
- RDR4320™ UHF Two-Way Radio
- RDR4350™ VHF Two-Way Radio
- RDR4350™ UHF Two-Way Radio
- RDR4380™ VHF Two-Way Radio
- RDR4380™ UHF Two-Way Radio



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PRODUCT INSPECTION

Prior to unpacking the RDR43x0 series portable radio, please inspect the packaging for signs of damage and report any damage or missing components immediately to your RCA Communications System Sales and Service Center. Every RDR43x0 series portable radios should come with the following items:

Item	Qty.
RDR4320™/RDR4350™/RDR4380™ -Handheld Radio	1
B4323LI - Li-Ion Battery (2250 mAh)	1
ANH4300U-W - Antenna for UHF Models ANH4300V-W - Antenna for VHF Models	1
BC4300 - Belt Clip	1
CH4301 - Desktop Rapid Charger	1
PS4301 - Power Supply	1
Wrist Strap	1



RDR4320™
Handheld Radio



RDR4350™
Handheld Radio



RDR4380™
Handheld Radio



Antenna
ANH4300U-W - UHF models
ANH4300V-W - VHF models



BC4300
Belt Clip



B4323LI
Li-Ion Battery
(2250 mAh)

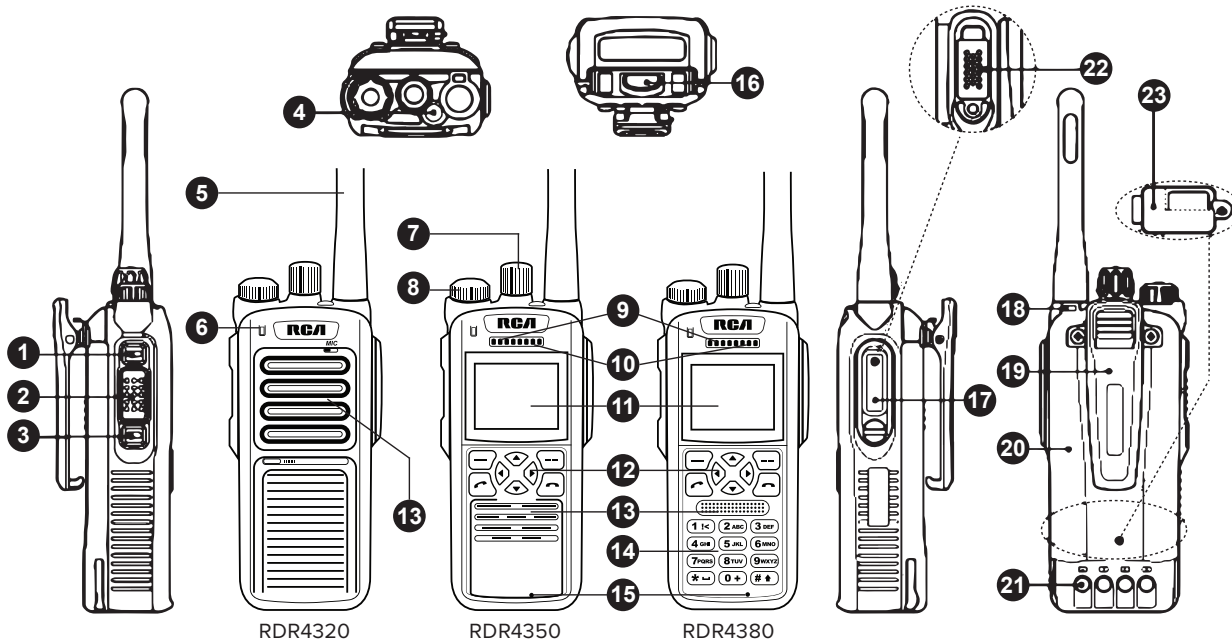


CH4301
Desktop Rapid Charger



PS4301
Power Supply

RCA RDR43x0™ Series Overview



Note: The frequency band of your RDR4320™, RDR4350™, RDR4380™ is marked on the radio label. If it is not visible, identify the frequency band according to the marking on the antenna. On RDR4350™, RDR4380™, go to Menu > Radio Info to find frequency band info.

- | | | | |
|--------------------------------|---|--|-----------------------------------|
| 1 Side Button 1 (Programmable) | 7 Channel Knob | 13 Speaker | 19 Belt Clip |
| 2 Push-To-Talk Button (PTT) | 8 On/Off/ Volume Knob | 14 Numeric Keypad (RDR4350/RDR4380) | 20 Battery |
| 3 Side Button 2 (Programmable) | 9 Earpiece (RDR4350/RDR4380) | 15 Duplex Microphone (RDR4350/RDR4380) | 21 Battery Pole Piece |
| 4 Top Button (Programmable) | 10 Simplex Microphone (RDR4350/RDR4380) | 16 Battery Latch | 22 Accessory Jack |
| 5 Antenna | 11 LCD Display (RDR4350/RDR4380) | 17 Accessory Jack Cover | 23 Micro SD Encryption Card Cover |
| 6 LED Indicator | 12 Function Keypad (RDR4350/RDR4380) | 18 Strap hole | |

Preparing Your Radio for Initial Use Setting Up Your Charger

1. Plug the adapter's AC connector into the AC outlet socket. (see image A)
2. Plug the adapter's DC connector into the DC socket on the back of the charger. (see image B)
3. Place the radio with the battery attached, or the battery alone, in the charger. (see image C)
4. Make sure the battery contact is touching the charging terminals. The charging process begins when the red LED light illuminates.
5. The green LED light will illuminate approximately two hours later, indicating the battery is fully charged.

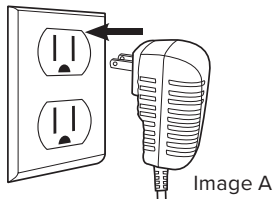


Image A

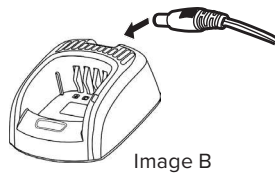


Image B

Battery Information

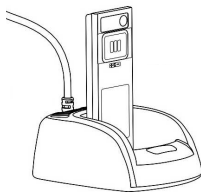
Charging the Battery

Your radio is powered by a Lithium-Ion (Lilon) battery. To avoid damage and comply with warranty terms, charge the battery using only an original RCA charger, exactly as described in the charger user guide. When the charger's LED illuminates red, it is an indication that the battery is being correctly charged. When the LED illuminates green, the battery charge is complete.

Note: Charge a new battery 12 to 14 hours before initial use for best performance. Maximum battery capacity is normally achieved after two or three full charge / discharge cycles.



Image C



Caution: To reduce the risk of injury, use only batteries specified by RCA Communications Systems.

- To avoid risk of personal injury, do not dispose of batteries in a fire. - Dispose of batteries according to local recycling regulations. Do not dispose as household waste.
- Never attempt to disassemble the battery.
- When charging a battery, keep it at a temperature between 41°F ~ 104°F (5°C ~ 40°C) to ensure a full charge. Temperatures outside this range significantly reduce battery life. The operating time (talk-time and standby time) is noticeably shorter than normal, replace the battery.
- Before charging a battery attached to a radio, turn the radio off to ensure a full charge. Never leave a radio on while in the charger, as it can damage both the battery and the radio; the charger is not a radio stand.

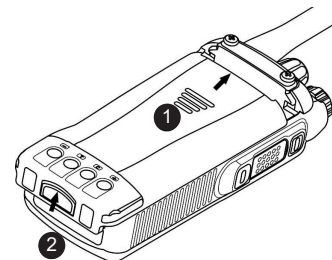
- Do not cut off the power supply or remove battery while charging.
- Never charge a battery that is wet. Dry it with soft cloth prior charging.
- The battery will eventually weaken. When the operating time (talk-time and standby time) becomes noticeably shorter than normal, replace the battery.
- Battery performance greatly decreases at temperatures below -4°F (-20°C). Having a spare battery is always necessary in extremely cold environments. A cold battery may work again when it returns to room temperature, so keep it for later use.
- Dust on the battery contact may cause the battery not to work or charge properly. Use a clean dry cloth to wipe it before attaching the battery to the radio.
- Batteries with damaged contacts can be extremely dangerous. Any battery with damage to one or more contacts should be replaced immediately and not used under any circumstances.

Battery Storage

1. Fully charge the battery before storing it for an extended period of time to avoid battery damage due to over-discharge.
2. Recharge a battery after three months storage to avoid reduced battery capacity due to over-discharge.
3. When storing a battery, keep it in a dry place at room temperature.

Attaching the Battery

1. Place the battery on the back of the radio. (See Figure 1)
2. Press the battery down (See Figure 2) until the battery clicks into place. **Note:** If the battery is not securely locked, remove it and reattach it.



2

Attaching / Removing the Antenna

1. With the radio turned off, set the antenna in its receptacle and turn clockwise until it is screwed down. (See Figure 3)
2. To remove the antenna, turn the radio off and turn the antenna counterclockwise.

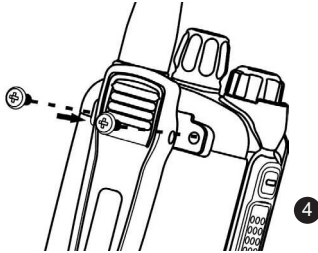
Note: Same for all RDR43x0 Series Radios.



3

Attaching / Removing the Belt Clip

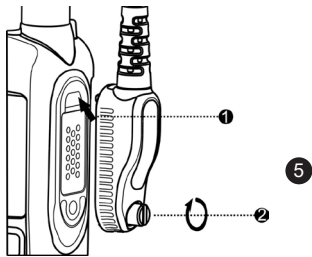
Using a small screwdriver, align the belt clip's screw holes to the radio's chassis. Attach by turning the screws clockwise into the belt clip's screw holes. Remove by doing the reverse. (See Figure 4)



Connecting Audio Accessories

The accessory connector is located on the side of the radio. It is used to connect RCA audio accessories to the radio. Remove the accessory cover by unscrewing the screw location at the bottom of the cover. Connect the desired audio accessory firmly into the accessory jack and secure the screw by turning it clockwise. (See Figure 5)

Note: Please loosen the screw prior to removing the audio accessory. The use of the audio accessory may affect the waterproof performance of the radio.



Turn On/Off the Radio

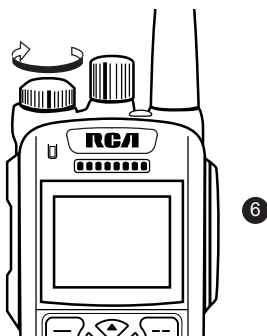
1. Rotate the On/Off/Volume Control Knob clockwise until you hear a click. (See Figure 6) The LED blinks green, indicating that the power up test is successful. The RDR4350™ / RDR4380™ radio displays "RCA" after powering on.
2. To turn off the radio, rotate this knob counterclockwise until you hear a click.

Note: There is no power up tone if the radio tones/alerts function is disabled. If your radio does not power up, check your battery. Make sure that it is charged and properly attached. If your radio still does not power up, contact your RCA Communications Systems dealer.

Adjusting the Volume

To increase the volume, turn the On/Off/ Volume Control Knob clockwise. To decrease the volume, turn this knob counterclockwise.

Note: Same for all RDR43x0 Series Radios.



Programmable Buttons

Your RCA Communications Systems Dealer can program the programmable buttons as shortcuts to radio functions or preset channels/groups depending on the duration of a button press:

Short Press - Press and release quickly.

Long Press - Press and hold for the programmed duration (between 1 seconds and 3.75 seconds).

The Programmable Functions are:	
None	Monitor On/Off
Outgoing Call Log	Nuisance Temp Delete
Channel Display	One Touch Access 1~15
Channel Down	Power Low/High
Channel Up	Alerts/Tones Profiles
Direct Channel Entry	Public Address On/Off
Disconnect	Radio Mode Toggle Switch
Emergency Off	Record Playback
Emergency On	Scan On/Off
Encryption On/Off	Speaker Setting
GPS Location On/Off	Status Message
GPS Location Report	TalkAround
Inbox	Text Message
Keypad Unlock	Unblock BS
Last Record	Voice Broadcast
Lock BS	Zone Down
Lone Worker On/Off	Zone Toggle Switch
Man Down On/Off	Zone Up

None - No function is assigned to this key.

Outgoing Calls Log - Enter radio's outgoing call log menu.

Channel Display - The radio can display the Channel Alias or the Channel Frequency. Toggles between Alias and Frequency.

Channel Down - Switches Up through the available channels.

Channel Up - Switches Down through the available channels.

Direct Channel Entry - Enters the direct channel entry mode, which allows for a channel number to be entered for the radio to switch to rather than using the Channel Knob or Up / Down keys. (Full Keypad radio models Only!)

Disconnect - hangs up the call.

Emergency Off - Terminates an outgoing emergency. This is the recommended option for the Orange Button.

Emergency On - Initiates an emergency. This is the recommended option for the Orange Button.

Encryption On/Off - Toggles between Encryption On and Off for the selected channel.

GPS Location On/Off - Toggles between GPS On and Off for the radio.

GPS Location Report - Sends GPS location data report to the preset target Base Station.

Inbox - Enter radio's messages inbox menu.

Keypad Unlock - Unlocks the keypad. (Full Keypad radio models Only!)

Last Record - Plays last recorded voice call.

Lock BS - Enable cell reselection (Trunking Mode Only)

Lone Worker On/Off - Toggles between Lone Worker On and Off for the radio.

Man Down On/Off - Toggles between Man Down On and Off for the radio.

Monitor On/Off - Toggles between Monitor On and Off for the channel.

Next Record - Plays the next recorded voice call.

Nuisance Temp Delete - Temporarily removes an unwanted channel from the scan list, except the Selected Channel. The nuisance deleted channel will be restored into the scan list, when radio is powered off and back on again.

One Touch Access 1~15 - Allows the user to directly invoke the feature set to the specific One Touch Access.

Power Low/High - Toggles between TX Power Low and High for the radio.

Alerts / Tones Profiles - Quick access to the Alerts and Tones settings menu.

Public Address On/Off - Toggles between Public Address On and Off for the radio. (Mobile radios Only!)

Radio Mode Toggle Switch - Switches between the different radio modes available for the radio. Conventional (Analog and DMR Digital), DMR Digital Trunking.

Record Playback - Plays the selected recorded voice call.

Scan On/Off - Toggles between Scan On and Off for the channel.

Speaker Setting - Toggles and selects the default speaker for broadcasting the audio. (Mobile radios Only!)

Status Message - Enters the Status Message menu.

TalkAround - Toggles between Repeater and TalkAround mode.

Text Message - Enters the Text Message menu.

Unlock BS - Disable cell reselection (Trunking Mode Only)

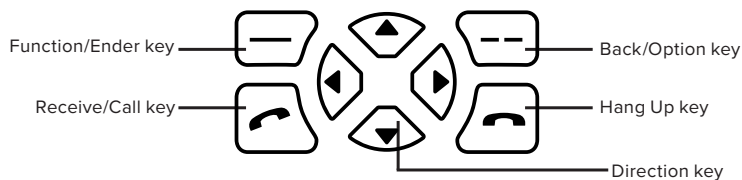
Voice Broadcast

Zone Down - Switches Down through the available zones.

Zone Toggle Switch - Toggles between the available zones.

Zone Up - Switches Up through the available zones.

Function Keypad (RDR4350™ / RDR4380™)



Accessing the Programmed Functions (RDR4350™ / RDR4380™)

You can access various radio functions through one of the following ways: A short or long press of the relevant programmable buttons.

Or

1. To access the menu, press the button. Press the Up or Down button to access the menu functions.
2. To select a function or enter a sub-menu, press the button.
3. To go back one menu level, or to return to the previous screen, press the button. Press the button to return to the Home Screen.

Radio Keypad (RDR4380™ only)

You can use the alphanumeric keypad to access the radio features. You can also use the keypad to enter subscriber numbers or IDs , and text messages.

- Use the key to switch input method between numeric and alphabetic (ABC or abc) mode. The symbol will be shown on the upper right corner of the display.
- To input special character, switch to alphabetic mode, press and use the direction key to select the character.
- To input space, switch to the alphabetic mode and press to insert space.

Operational Status Indicators

Your radio indicates its operational status through the following:

- Display Icons (RDR4350™ / RDR4380™)
- Call Icons (RDR4350™ / RDR4380™)
- Sent Item Icons (RDR4350™ / RDR4380™)
- LED Indicator (Entire RDR43x0 Series)
- Audio Tones (Entire RDR43x0 Series)

Display Icons

The LCD display shows radio status, text entries, and menu entries. The following are icons that appear on the radio's display.

	Received Signal Strength Indicator (RSSI)	The number of bars displayed represents the radio signal strength and is only displayed while the radio is in receiving mode.
	No Signal	The radio has no signal and will not be able to transmit or receive.
	Power Level	Radio is set at Low power. Radio is set at Medium power. Radio is set at High power.
	Operation Mode	Radio is at Digital mode. Radio is at TMO mode. Radio is set at Analog mode.
	Battery	The number of bars (0-5) shown indicates the charge remaining in the battery.
	Low Battery	Radio is low in battery.
	Unread Message	The Radio has unread message(s) in the inbox.
	Inbox Full	The radio's Inbox is full.
	Silent Mode	The radio is on silent.
	Standard Mode	The radio is on standard.
	Vibrate Mode	The radio is on vibrate.
	Custom Mode	The radio is on custom.
	Encryption Icon	Encryption is on.
	Encryption Icon	Encryption is off or wrong encryption key.
	Audio Accessory Icon	Audio accessory is connected.
	Call Status	The radio is currently on the call with other radio(s).
	Group Selection	Select Talk Group

LED Indicator

The LED Indicator shows the operational status of your radio.

Blinking Orange - Radio is scanning.

Solid Orange - Radio is powering up.

Blinking Red - Radio is low in battery.

Solid Red - Radio is transmitting.

Blinking Green - Radio is in standby mode.

Solid Green - Radio is receiving.

Note: When the LED is solid green, it indicates the radio detects activity over the air. Due to the nature of the digital protocol, this activity may or may not affect the radio's programmed channel.

Audio Tones

Alert tones provide you with audible indications of the radio's status or the radio's response to data received.

CONVENTIONAL MODE

Note: The functions described in this section are available only in digital mode.

Making and Receiving Calls

Selecting a Zone

Zones are groups of channels.

*RDR4320™ offers up to 2 zones with a maximum of 16 channels per zone.

*RDR4350™ / RDR4380™ offers up to 64 zones with a maximum of 1000 channels per zone.

Change zones with radio's function keys (RDR4320™) as programmed by your RCA Communications Systems dealer or radio's menu (RDR4350™ / RDR4380™)

To select the appropriate zone, please follow these steps:

1. Using the Radio User Menu
 - 1.1. Press  button to access the menu.
 - 1.2. Press  or  button to navigate to Zone, press  to enter.
 - 1.3. Press  or  button to select the appropriate zone, and press  to confirm.
2. Using the Radio Option menu:
 - 2.1. Press  button to access the Option.
 - 2.2. Press  or  button to navigate to Zone, press  to enter.
 - 2.3. Press  or  button to select the appropriate zone, and press  to confirm.
- **Shortcut key:** you can toggle to the appropriate zone by pressing the Zone Up or Zone Down key preset by your dealer. The shortcut keys are customizable with RDR4350™ / RDR4380™ in the radio.

Selecting a Channel, Subscriber ID or Group ID

Once the required zone is displayed (if you have multiple zones in your radio), turn the programmed Channel Selector Knob to select the desired channel or by using the radio's Menu navigate to the desired subscriber alias or ID, or group alias or ID.

Receiving and Responding to a Group Call

To receive a call from a group of users, your radio must be configured as part of that group. When you receive a Group Call:

1. The LED indicator appear solid green.
2. The first line of the display shows Individual Call. The second line displays the subscriber alias or ID. (RDR4350™ / RDR4380™ only)
3. Press the **[PTT]** button to respond to the call and the LED indicator lights up red.
Note: If Talk Permit Function is enabled, wait for the Talk Permit Tone to finish and then speak clearly into the microphone.
4. Release the **[PTT]** button to listen again.
5. If there is no voice activity for a set period of time, the call ends.

Receiving and responding to an Individual Call

A Private Call is a call from an individual radio to another individual radio. There are two types of Individual Calls. The first type is when a radio presence check is performed prior to setting up the call, while the other sets up the call immediately. When you receive an Individual Call:

1. The LED indicator appear solid green.
2. The first line of the display shows Individual Call. The second line displays the subscriber alias or ID. (RDR4350™ / RDR4380™ only)
3. Press the **[PTT]** button to respond to the call and the LED indicator lights up red.
Note: If Talk Permit Function is enabled, wait for the Talk Permit Tone to finish and then speak clearly into the microphone.
4. Release the **[PTT]** button to listen again.
5. If there is no voice activity for a set period of time, the call ends.

Receiving and All Call

An All Call is a call from an individual radio to every radio on the channel. It is used to make important announcements requiring all radio user's full attention. When you receive an All Call:

1. The LED indicator appear solid green.
2. The first line of the display shows All Call. The second line displays the subscriber ID. (RDR4350™ / RDR4380™ only)
Note: The radio stops receiving the All Call if you switch to a different channel while receiving the call.

Making a Radio Call

You can select a channel, subscriber ID, or group by using:

- The channel Selector Knob
- The programmable buttons
- The contacts list
- Manual Dial (using contacts list)—This method is for Private Calls only and is dialed using the keypad. (on RDR4380™)

Making Call with Channel Selector Knob

Making a Group Call

1. To make a call to a group of users, your radio must be configured as part of that group. Turn the Channel Selector Knob to select the channel with the active group alias or ID.
2. Press the **[PTT]** button to make the call. When the target radio responds, the LED lights up green. The first line displays Group Call. The second line displays subscriber alias or ID. (RDR4350™ / RDR4380™ only)
Note: If Talk Permit Function is enabled, wait for the Talk Permit Tone to finish, then speak clearly into the microphone.
3. Release the **[PTT]** button to listen.
4. If there is no voice activity for a predetermined period of time, the call ends. The radio returns to the screen you were on prior to initiating the call.

Making an Individual Call

1. Turn the Channel Selector Knob to select the channel with the active subscriber alias or ID.
2. Press **[PTT]** button to make the call. The LED lights up solid red. The first line displays Individual Call. The second line displays subscriber alias or ID. (RDR4350™ / RDR4380™ only)
Note: If Talk Permit Function is enabled, wait for the Talk Permit Tone to finish and then speak clearly into the microphone.
3. Release **[PTT]** button to listen. When the target radio responds, the LED lights up solid green.
4. If there is no voice activity for a predetermined period of time, the call ends. The radio returns to the screen (RDR4350™ / RDR4380™ / only) last viewed prior to initiating the call.

Making an All Call

This feature allows you to transmit to all users on a channel. Your radio must be programmed to allow you to use this feature.

Turn the Channel Selector Knob to select the channel with the active All Call group alias or ID.

Press **[PTT]** button to make the call. The LED lights up solid red and the display (RDR4350™ / RDR4380™ only) shows the All Call group alias or ID.

Note: Users on the channel cannot respond to an All Call.

Making a Group or Individual Call with the One Touch Access Button (RDR4380™ only)

The One Touch Access feature allows you to make a Group or Private Call to a predefined alias or ID easily. This feature can be assigned to a short or long programmable button press. You can only have one alias or ID assigned to a One Touch Access button. Your radio can have multiple One Touch Access buttons programmed.

1. Press the programmed One Touch Access button to make a Group or Individual Call to the predefined alias or ID. The display shows the group/subscriber alias or ID.
Note: If Talk Permit Function is enabled, wait for the Talk Permit Tone to finish, then speak clearly into the microphone.
2. Press the Hangup Key once finish transmitting. When the target radio responds, the LED lights up solid green.
3. If there is no voice activity for a predetermined period of time, the calls end. Radio returns to the screen you were on prior to initiating the call.

Emergency Operation

An Emergency Alarm is used to indicate a critical situation. You can initiate an Emergency at any time on any screen (RDR4350™ / RDR4380™ only) display regardless of any activity on the current channel.

Note: This function is available only in digital mode. Your radio supports 7 Emergency Alarms:

- Emergency Alarm
- Emergency Alarm with Emergency Call
- Emergency Alarm with Voice to Follow
- Emergency Call
- Pre-Status Message
- Pre-Status Message with Emergency Call
- Pre-Status Message with Voice to Follow

Each alarm has the following default setting:

Disabled: Radio cannot transmit alarm signal, but can receive alarm from other radios. Each alarm has the following types:

Regular: Radio transmits an alarm signal and shows audio and/or visual indicators. Radio beeps rapidly.

Silent: Radio transmits an alarm signal without any audio or visual indicators. There will be no response (call) from the target radio until you press the **[PTT]** button to initiate the call.

Silent with Voice: Radio transmits an alarm signal and is able to receive an incoming call, without any audio or visual indicators, until you press the **[PTT]** button to initiate, or respond to the call.

Vibration: Radio transmits an alarm signal and shows audio and/or visual indicators. Radio vibrates rapidly.

Screen Flickering: Radio transmits an alarm signal and shows audio and/or visual indicators. Radio display flickers rapidly.

Regular and Vibration: Radio transmits an alarm signal and shows audio and/or visual indicators. The radio beeps and vibrates rapidly.

Regular and Screen Flickering: Radio transmits an alarm signal and shows audio and/or visual indicators. Radio beeps and display flickers rapidly.

Vibration and Screen Flickering: Radio transmits an alarm signal and shows audio and/or visual indicators. Radio vibrates and display flickers rapidly.

Regular and Vibration and Screen Flickering: Radio transmits an alarm signal and shows audio and/or visual indicators. Radio beeps, vibrates and display flickers rapidly.

Advanced Features (RDR4350™ / RDR4380™ only)

If enabled, this feature allows you to determine if another radio is active in a system and remotely control the target radio if needed.

Sending a Call Alert

Enables the radio to be able to initiate a Call Alert using the digital signaling system. (RDR4380 only).

To send call alert, please follow these steps:

1. Using the keypad:
 - 1.1. Dial the radio ID using your keypad, press  to select the options.
 - 1.2. Press  or  button to navigate to Control services, press  to enter.
 - 1.3. Press  or  button to navigate to Call Alert, press  to send.
 - 1.4. The display shows Call Alert indicating the request is sending to the target radio. If the target radio is active in the system, the display shows **Success**. If the target radio is not active in the system, the radio beeps twice and the display briefly shows **Failed**.

2. Using the Radio Option menu:

- 2.1. Press  button to access the menu.
- 2.2. Press  or  button to navigate to Contacts and press  button to select.
- 2.3. Press  or  button to select Individual Contacts, and press  to select.
- 2.4. Press  or  button to the required subscriber alias or ID and press  button to select.
- 2.5. Press  or  button to find Control Services and press  button to select.
- 2.6. Press  or  button to find Call Alert and press  button to select.
- 2.7. The display shows Call Alert indicating the request is sending to the target radio. If the target radio is active in the system, the display shows **Success**. If the target radio is not active in the system, the radio beeps twice and the display briefly shows **Failed**.

Receiving and responding to a Call Alert

When you receive a Call Alert page, on the display you see Press PTT Call Back and the radio beeps rapidly. To respond to the call alert follow the steps below:

1. Press **[PTT]** button to make the call. The LED lights up solid red. The first line displays Individual Call. The second line displays subscriber alias or ID. (RDR4350™ / RDR4380™ only) **Note:** If Talk Permit Function is enabled, wait for the Talk Permit Tone to finish and then speak clearly into the microphone.
2. Release **[PTT]** button to listen. When the target radio responds, the LED lights up solid green.

Sending a Radio Check

Allows the radio to send a Radio Check request to another radio to determine if the radio is active in a system without showing any indication to the radio's user. Both radios must be in communication range:

1. Press  button to access the menu.
2. Press  or  button to navigate to Contacts and press  button to select.
3. Press  or  button to select Individual Contacts and press  button to select.
4. Press  or  button to the required subscriber alias or ID and press  button to select.
5. Press  or  button to find Control Services and press  button to select.
6. Press  or  button to find Radio Check and press  button to select.
7. The display shows Radio Check indicating that radio check is in progress. If the target radio is active in the system, the radio beeps twice and the display briefly shows **Target Radio Available**. If the target radio is not active in the system, the radio beeps twice and the display briefly shows **Target Radio Unavailable**.

Remote Monitor

Allows the radio to send Remote Monitor command to another radio. This command activates the receiving radio's microphone and transmitter for the duration specified for the receiving radio in the Remote Monitor Hot Mic Time under the Decode Settings. The receiving radio is controlled remotely without any indication given to the receiving radio user.

Note: Your radio must be programmed by your RCA Communications Systems dealer to allow you to use the Remote Monitor feature.

Initiating Remote Monitor

Use the programmed **Remote Monitor** button.

1. Press  button to access the menu.
2. Press  or  button to navigate to Contacts and press  button to select.
3. Press  or  button to select Individual Contacts and press  button to select.
4. Press  or  button to the required subscriber alias or ID and press  button to select.
5. Press  or  button to find Control Services and press  button to select.
6. Press  or  button to find Radio Monitor and press  button to select.
7. The display shows Individual Call indicating that radio monitor is in progress. If successful, the Hot Mic function is activated in the RX radio, triggering an automatic individual call for the duration of the preset Hot Mic time. Otherwise, the display shows Failed.

Radio Enable

Allows the radio to send a Radio Enable command to another radio to remotely enable it after it has been previously disabled. This feature helps to unlock the radio after it has been found.

1. Press  button to access the menu.
2. Press  or  button to navigate to Contacts and press  button to select.
3. Press  or  button to select Individual Contacts and press  button to select.
4. Press  or  button to find the required subscriber alias or ID and press  button to select.
5. Press  or  button to find Control Services and press  button to select.
6. Press  or  button to find Radio Enable and press  button to select.
7. The display shows **Radio Enable** and then **Success**, the target radio has been enabled.

Radio Disable

Allows the radio to send a Radio Disable command to another radio to remotely disable it. This feature helps to block usage of stolen or lost radios.

1. Press  button to access the menu.
2. Press  or  button to navigate to Contacts and press  button to select.
3. Press  or  button to find Individual Contacts and press  button to select.

- Press or button to find the required subscriber alias or ID and press button to select.
- Press or button to find Control Services and press button to select.
- Press or button to find Radio Disable and press button to select.
- The display shows **Radio Disable** and then **Success**, the target radio has been Disabled and unable to use.

Contacts Setting

Contacts provide an address book capabilities to your radio. Each entry corresponds to an alias or ID that you use to initiate a call. The entries are sorted in the order they are entered in the Contacts List. Each entry is associated with a different call type: Group Call, Private Call or All Call.

Note: You can add, delete, or edit contacts from the Digital Contacts list.

Making a Group Call from Contacts

- Press button to access the menu.
- Press or button to navigate to Contacts and press button to select.
- Press or button to find the Group Contacts and press button to select.
- Press or button to the required Group alias or ID and press button to select.
- Press **[PTT]** button to make the call. The LED lights up solid red. The display shows Group Call and the group alias or ID
- Release the **[PTT]** button to listen, when any user in the group responds, the LED lights up solid green. You will see Group Call, the group ID, and that user's ID on your display.
- If there is no voice activity for a programmed period of time, the call ends.

Note: If Talk Permit function is enabled, wait for the Talk Permit Tone to finish and then speak clearly into the microphone.

Making an Individual Call from Contacts

- Press button to access the menu.
- Press or button to navigate to Contacts and press button to select.
- Press or button to select Individual Contacts and press button to select.
- Press or button to navigate to desired subscriber alias or ID and press button to select.
- Press the **[PTT]** button to make the call. The LED lights up solid red. The display shows Individual Call and the subscriber alias or ID
- Release the **[PTT]** button to listen, when the target radio responds, the LED lights up solid green and the display shows the transmitting user's ID.
- If there is no voice activity for a programmed period of time, the call ends.

Note: If Talk Permit function is enabled, wait for the Talk Permit Tone to finish and then speak clearly into the microphone.

Call Log Feature

Your radio keeps track of all recent outgoing, answered, and missed Individual Calls. Use the call log feature to view and manage recent calls. You can Store an ID from the Call Log to Contacts or Delete it. The Call Log lists are Outgoing, Incoming, and Missed.

Note: When you select a Call List and it contains no entries, the display shows List Empty.

Accessing the Call Log

- Using the programmed Call Log button.
- Using the radio menu
 - Press button to access the menu.
 - Press or button to Call Logs and press button to select.
 - Press or button to navigate to the desired list and press button to select. The most recent entry is displayed first.
 - Use the or buttons to scroll through the list.
 - Press the **[PTT]** to initiate a call

Storing an Alias or ID from the Missed Call List

- While viewing an entry from the Call Log list, press to select.
- Press or button to navigate to [Save], then press .
- Use the keypad to input a name.
- Press to enter.
- The display shows Save Successfully.

Deleting a Call from a Call List

- While viewing an entry from the Call Log list, press to select.
- Press or button to navigate to [Delete], then press .
- Press to enter.
- The display shows Delete Successfully.

Text Message Features (RDR4350™ / RDR4380™ only)

Your radio is able to receive data such as a text message from another radio.

Navigate to Messages

- Press button to access the menu, press or button to select Messages.
- Press or button navigate to the New Message.
Note: Press button to enter and button at any time to return to previous screen.

Write a new message (RDR4380™ only)

You can write a text message and send it to anyone in the contact list. The maximum length of characters for a text message is 500.

1. Press  button to access the menu, press  or  button to select Messages.
2. Press  or  button navigate to the New Message and press  button again to write a new message.
3. Once complete the message, press  to enter and press  or  button to select the target radio you wish to send the message to.
4. If the message is sent, a tone sounds and the display shows Sent. If the message is not sent, the display shows Failed.

Quick Message (RDR4380™ only)

Quick Messages are pre-saved in the radio's memory short text messages that can be sent by the user through the radio Menu or an assigned programmable Shortcut Key. You can create up to 10 quick messages. Quick messages can have up to 34 characters.

1. Press  button to access the menu.
2. Press  or  button navigate to the New Message.
3. Press  or  button to select Quick Messages, press  button to enter the Quick Message menu.
4. Press  or  button to select the preset quick message and press  button to enter.
5. Press  or  button to select the target radio you wish to send the quick message to.
6. If the message is sent, a tone sounds and the display shows Sent. If the message is not sent, the display shows Failed.

Status Message (RDR4350™ / RDR4380™ only)

The status messages are pre-saved in the radio's memory short text messages that can be sent by the user through the radio Menu or an assigned programmable Shortcut Key. A Status ID is assigned to each text message, and the Status ID's in all radios must match in order for the receiving radios to identify and display the proper messages associated with the Status ID. You can create up to 127 status messages. Status messages can have up to 60 characters.

1. Press  button to access the menu.
2. Press  or  button navigate to the New Message.
3. Press  or  button to select Status Messages, press  button to enter the Status Messages menu.
4. Press  or  button to select the preset Status Message and press  button to enter.
5. Press  or  button to select the target radio you wish to send the Status Message to.
6. If the message is sent, the radio beeps twice and the display shows Sent. If the message is not sent, the radio beeps once and display shows Failed.

Managing Sent Text Message (RDR4350™ / RDR4380™ only)

Once a message is sent to another radio, it is saved in Outbox. The most recent sent text message is always added to the top of the outbox list. The Outbox folder is capable of storing a maximum of ten (10) sent messages. When the folder is full, the next sent text message automatically replaces the oldest text message in the folder.

Note: Press  at any time to return to the previous screen.

Viewing Sent Text Message in Outbox (RDR4350™ / RDR4380™ only)

1. Press  button to access the menu.
2. Press  or  button navigate to the Messages and press .
3. Press  or  button to select Outbox and press .
4. Press  or  button to select the preset Status Message and press  button to enter.
5. Press  or  button to navigate to the desired message and press  button.

You can select one of the following options while viewing a sent text message:

- View
- Resend
- Edit
- Extract Number
- Delete
- Delete All

To perform any of the function press  again while viewing the message.

To perform any of the functions:

1. Press  again while viewing the message.
2. Press  or  button navigate to View, Resend, Edit, Extract Number, Delete or Delete All and press  to select.
3. If you select [Edit], the radio will ask you to select the contact from the recipients list.
4. If the message is sent, the radio beeps twice and the display shows Sent. If the message is not sent, the radio beeps once and the display shows Failed.

Deleting All Sent Text Messages from the Sent Items (RDR4350™ / RDR4380™ only)

1. Press  button to access the menu.
2. Press  or  button navigate to the Messages and press .
3. Press  or  button to select Outbox and press .
4. Press  or  button to find Delete All and press  button to enter.
5. The display shows Delete All?, press  to confirm. The display shows Delete Successfully.

Receiving a Text Message (RDR4350™ / RDR4380™ only)

When your radio receives a message, the display shows New Message. Press  to view.

Managing Received Text Message (RDR4350™ / RDR4380™ only)

Use the Inbox to manage your text messages. The Inbox is capable of storing a maximum of 10 messages. Your radio supports the following options for text messages:

- View
- Reply
- Forward
- Delete
- Delete All

Text messages in the Inbox is sorted according to the date they were received. The most recent message will appear on the top of the list. Press  at any time to return to the previous menu..

Viewing a Text Message from the Inbox (RDR4350™ / RDR4380™ only)

1. Press  button to access the menu.
2. Press  or  button navigate to the Messages and press .
3. Press  or  button to select Inbox and press .
4. Press  or  button to navigate to the desired message.
5. Press  to view the current message.

Replying to a Text Message from the Inbox (RDR4380™ only)

1. Press  button to access the menu.
2. Press  or  button navigate to the Message and press  to select.
3. Press  or  button to navigate to Inbox and press  to select.
4. Press  or  button to select the message, and press  to access the sub-menu and select Reply, Forward or Delete the message.
5. Press  or  button to navigate to Reply and press  to select.
6. Enter the text using your alphabetic/numeric keypad. Once done typing, press  to send the message.
7. If the message is sent, the radio beeps twice and the display shows Sent. If the message is not sent, the radio beeps once and the display shows Failed.

Forwarding a Text Message from the Inbox (RDR4350™ / RDR4380™ only)

1. Press  button to access the menu.
2. Press  or  button navigate to the Message and press  to select.
3. Press  or  button to navigate to Inbox and press  to select.
4. Press  or  button to select the message, and press  to access the sub-menu and select Reply, Forward or Delete the message.
5. Press  or  button to navigate to Forward and press  to select.
6. Press  and select the Contacts from the recipients menu and press  to send.
7. If the message is sent, the radio beeps twice and the display shows Sent. If the message is not sent, the radio beeps once and the display shows Failed.

Deleting a Text Message from the Inbox (RDR4350™ / RDR4380™ only)

1. Press  button to access the menu.
2. Press  or  button navigate to the Message and press  to select.
3. Press  or  button to navigate to Inbox and press  to select.
4. Press  or  button to select the message, and press  to access the sub-menu and select Reply, Forward or Delete the message.
5. Press  or  button to navigate to Delete and press  to select.
6. The display shows "Delete ?", press  to confirm. The display shows Delete Successfully.
Note: When you select the Inbox and it contains no text messages, the display shows Empty!

Scan

Scan lists are created and assigned to individual channels / groups. The radio scans for activity by cycling through the channel/group sequence specified in the scan list for the current channel / group. Your radio can support up to 16 scan lists, with a maximum of 100 members in a list. However, it is recommended to add not more than 16 channels for optimal result. Each scan list can support a mixture of both analog and digital entries. You can add, delete, or prioritize channels by editing the scan lists.

Viewing an Entry in the Scan List

Use the Channel Selector Knob to select a channel programmed with a scan list.

Press  to access the menu, press  or  to navigate to Services.

Press  or  to navigate to Scan and press  to select.

Press  or  to navigate to Scan List and press  or  to select the appropriate list.

Press [1] to select or press [2] to view/edit.

Note: If a channel is set as priority, the Priority icon appears left of the channel alias.

Scan Instructions and Methods

When a scan is initiated, your radio cycles through the programmed scan list for the current channel looking for voice activity. The LED blinks red and you see the Scan icon on the display (RDR4350™ / RDR4380™ only)

There are two ways of initiating scan:

- **Manual Scan:** Initiate scan manually using the programmed scan list by your RCA Communications Systems dealer Scan ON/OFF side button or menu function . When scan is initiated, radio will detect all channels / groups on the programmed scan list.
- **Auto Scan:** Your radio automatically starts scanning when you select a channel / group that has Auto Scan enabled.

Starting and Stopping Scan

Press the programmed Scan side button to start or stop the Scan feature or follow the procedure below:

1. Press  to access the menu, press  or  to navigate to Services.
2. Press  or  to navigate to Scan and press  to select.
3. Press  or  to navigate to On/Off.
4. Press  or  to select On or Off and press  to select.
5. The LED blinks orange and the Scan icon is displayed when scan is enabled. THE LED turns off and the Scan icon disappears when Scan is disabled.

Responding to a Scan

During scanning, your radio stops on any channel / group where activity is detected. After the transmission is over the radio remains on the active channel for a programmed time period known as "hang time".

1. Press the **[PTT]** button during hang time to respond to the call. The LED lights up red.
2. Release the **[PTT]** button to listen.
Note: If you do not respond within the hang time period, the radio continues scanning other channels / groups.

Deleting a Nuisance Channel

If a channel continually generates unwanted calls or noise (termed a "nuisance" channel), you can temporarily remove the unwanted channel from the scan list.

Note: This capability does not apply to the channel designated as the Selected Channel. This feature is not accessible through the menu.

1. When your radio stops on an unwanted or nuisance channel, press the programmed Nuisance Channel Delete button until you hear a tone.
2. Release the Nuisance Channel Delete button. The nuisance channel is deleted.

Restoring a Nuisance Channel To restore the deleted nuisance channel, power the radio off and back on again or press Stop and Start to restart a scan via the programmed Scan button.

Keypad Locked and Keypad Unlocked

You can lock your radio's keypad to avoid an inadvertent key press. You have two options to lock your keypad:

- **Shortcut key:** press the programmed keypad lock button to lock or unlock the keypad.
- **Use keypad to activate the setting:**
 1. Press  to access the menu
 2. Press  or  to navigate to Settings and press  to select.
 3. Press  or  to navigate to Keypad Lock and press  to select.
 4. Press  or  to select the appropriate time frame or turn the keypad lock off, press  to confirm.

Setting Alerts/Tones

The Alerts/Tones menu allows you to preset or customize radio's audible alerts and tones for the following actions listed below. You can Enable or Disable each one of them individually and/or select a Vibration option. The settings are radio-wide and affect all radio operating modes.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Alerts/Tones and press  to select.
4. You have 4 options, use  or  to select the desired setting and press  to confirm or customize additional setting:
 - Standard
 - Vibrate
 - Silence
 - Custom
 - ◊ Notification
 - ◊ Key
 - ◊ Incoming Call
 - ◊ New Message
 - ◊ Talk Permit
 - ◊ Power On
 - ◊ Power Off

Setting Date and Time

This setting allows the user to set or adjust the date and time according to the preferred time zone.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Date and Time and press  to select.
4. Use the  or  button to adjust the number, use the  or  button to move to the next section.

Setting Screen Saver

This setting allows the user to set a default time interval for the display screen saver to stay ON after the last action taken by the user.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Screen Saver and press  to select.
4. You have below 6 options, press  or  to select the appropriate time frame or turn the screen saver Off, press  to confirm.
 - Off
 - 5 Sec
 - 10 Sec
 - 20 Sec
 - 30 Sec
 - 1 Min

Display Settings

This setting allows you to control backlight timeout and backlight brightness of the LCD display.

Backlight Timeout

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Display Setting and press  to select.
4. Press  or  to navigate to Backlight Timeout and press  to select.
5. Press  or  to select the appropriate time frame or turn the backlight Off, press  to confirm.

Brightness

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Display Setting and press  to select.
4. Press  or  to navigate to Brightness and press  to select.
5. Use the  or  button to adjust the brightness. 8 is the brightest and 1 is the darkest.

Reversing the Display

This feature allows you to reverse the display if needed for certain working condition.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Reverse and press  to select.
4. Press  or  to turn On or Off the display reverse setting.

Setting Channel Report

This feature allows you to turn the channel number voice announcement ON or OFF.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Channel Report and press  to select.
4. Press  or  to turn On or Off the Channel Report setting.

Setting Channel Display

Defines if the radio displays the caller ID or the Alias during a call.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Channel Display and press  to select.
4. Press  or  to select Alias or Frequency.

Setting the Power Level

Sets the radio's transmission power level for this channel. This feature can be toggled between the levels, using the radio menu or the programmable shortcut keys.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Power Level and press  to select.
4. Press  or  to select Low Power or High Power.

Speech Enhancement

This feature controls the your radio's microphone gain automatically while transmitting. It suppresses loud audio or boosts soft audio to a preset value in order to provide a consistent level of audio.

Note: This feature is not available with Wireless Audio Accessories.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Speech Enhancement and press  to select.
4. Press  or  to turn On or Off the Speech Enhancement.

Speaker Auto Gain Control (SPK. AGC)

This feature automatically adjusts the radio audio volume to overcome background noise in the current environment. This feature affects the Receive Audio only.

Note: This feature is not available with Wireless Audio Accessories.

Wireless Program

This feature allows you to connect your radio with a PC via a wireless USB.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Wireless Program and press  to select.
4. Press  or  to turn On to connect to the wireless device.

Setting Emergency Service

Man Down

Man Down is an optional licensed feature. If the feature is not activated in the radio, contact your RCA Communications Systems Dealer.

Note: Your radio must be programmed by your RCA Communications Systems dealer according your requirements to allow you to efficiently use the Man Down feature.

This feature enables Man Down function in the radio. Man Down initiates an emergency alarm to be sent if the radio is in a position at a predefined angle for a predefined period of time and there has been no actions taken by the user during the predefined time. Man Down is radio-wide feature.

1. Press  to access the menu.
2. Press  or  to navigate to Settings and press  to select.
3. Press  or  to navigate to Emergency and press  to select.
4. Press  or  to turn On or Off the Man Down.

Lone Worker

Lone Worker is an optional licensed feature. If the feature is not activated in the radio, contact your RCA Communications Systems Dealer.

Note: Your radio must be programmed by your RCA Communications Systems dealer according your requirements to allow you to efficiently use the Lone Worker feature.

This feature enables Lone Worker function in the radio. Lone Worker initiates an emergency alarm to be sent if there has been no actions taken by the user for a predefined time. Lone Worker is radio-wide feature.

1. Press  to access the menu.
2. Press  or  to navigate to Service and press  to select.
3. Press  or  to navigate to Emergency and press  to select.
4. Press  or  to turn On or Off the Lone Worker.

Encryption (This feature is supported in Digital mode only)

Encryption (also known as Privacy) allows for the transmissions on selected digital channels to be encrypted. Encryption is a software-based solution that is meant to prevent eavesdropping. The receiving radio(s) must have the same Encryption Key (PRODIGITM Advanced Software Encryption) or the same Key Value and Key ID (for ARC4 Encryption) as the transmitting radio in order to decode the encrypted transmission. Channels may have their encryption enabled or disabled using a programmable shortcut key (Encryption On/Off) or the Encryption Menu (Display Radios Only). A radio must have the Encryption enabled on the channel to transmit with encrypted transmission. A visual indication appears on all display radios if the channel is privacy-enabled.

Note: This is a radio-wide feature.

1. Press  to access the menu.
2. Press  or  to navigate to Service and press  to select.
3. Press  or  to navigate to Encryption and press  to select.
4. Press  or  to turn On or Off the Encryption.

GPS Settings (This feature is supported in Digital mode only)

GPS is a location reporting feature, which allows the radio to obtain its current location from satellites it is connected to. The coordinates then can be sent to a designated Dispatch console for tracking purposes.

Note: At least one RCA compatible PC dispatch console, serving as Target Contact, is needed to decode and display properly the radio unit location coordinates. For more information contact your RCA Communications Systems Dealer.

1. Press  to access the menu.
2. Press  or  to navigate to Service and press  to select.
3. Press  or  to navigate to GPS and press  to select.
4. Press  or  to turn On or Off the GPS.

Accessory Link

This feature allows you to connect a wireless audio accessory to your radio.

Note: Use only RCA approved wireless audio accessories.

Voice Recording

This feature allows you to record each communication with other radios. A microSDHC card UHS Speed Class U1 is required to store the voice recording files and is not included with the radio. If the feature is not activated in the radio, contact your RCA Communications Systems Dealer.

1. Press  to access the menu.
2. Press  or  to navigate to Service and press  to select.
3. Press  or  to navigate to Voice Recording and press  to select.
4. You will see 3 options below, use the  or  to navigate to the desired option and press  to select.
 - ON / Off
 - Recordings
 - History

Accessing General Radio Information (RDR4350 / RDR4380)

Your radio contains information on the following:

- Bandwidth
- Radio ID Press
- Alias
- Serial Number
- Firmware Version
- Hardware Version

To access the information on your radio, you have below two options:

1. Using the Radio Option Menu
 - 1.1. Press  key to access the Option menu
 - 1.2. Press  or  to select Radio Info.
2. Using the Radio Menu
 - 2.1. Press  to access the menu.
 - 2.2. Press  or  to navigate to Settings.
 - 2.3. Press  or  to navigate to Radio info and press  to select.

CARE AND CLEANING

- Do not directly handle the radio by its antenna or external microphone.
- Do not place the radio in a dusty or dirty environment.
- Clean the radio with a lint-free cloth moistened with clean water and/or a mild dishwashing liquid to remove dirt, grease and dust.
- Avoid subjecting the radio to corrosives, solvent or spirits.

TROUBLESHOOTING

Symptom	Solution
Radio will not power on	- The battery needs charging. Recharge the battery or replace it with a fresh one. - The battery is not properly installed. Remove the battery and reattach it.
The operating time is noticeably shorter than normal even though the battery is properly charged.	- The battery has worn out; it is time to buy a new battery. - The battery is not fully charged. Make sure that the battery is removed after LED indicator has turned green.
Cannot talk to or hear transmissions from your group members	- Make sure that your radio operates on the same channel and / or has the same CTCSS/CDCSS settings as your group members. - Make sure you are within their communication range.
Radio is on, but you cannot hear voice transmissions or they are not very loud	- Turn the volume control knob to its maximum volume. - Return the radio to your dealer to check for microphone damage.

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