Communications Systems

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Communications Systems

INSTRUCTION MANUAL

two way radio

RDR2600V

Congratulations and Thank You for selecting the PRODIGI RDR2000 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, four-year "Warranty Protection Program," one of the most comprehensive warranties in the communications industry.

To ensure you achieve maximum performance from your RDR2500™, RDR2550™, or RDR2600™ radio, please be sure to carefully read this manual.

MODELS COVERED IN THIS MANUAL:

- RDR2500™ VHF Two-Way Radio
- RDR2500™ UHF Two-Way Radio
- RDR2550™ VHF Two-Way Radio
- RDR2550™ UHF Two-Way Radio
- RDR2600™ VHF Two-Way Radio
- RDR2600™ UHF Two-Way Radio

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Technical Specifications:

GENERAL	
Model	RDR2500™/ RDR2550™/ RDR2600™
Channel Numbers	32 / 1000 / 1000
Channel Spacing	Digital:12.5KHz Analog:12.5Khz/25KHz
Working Voltage	DC 7.4V
Frequency	VHF: 136-174MHz UHF: 406.1-520Mhz
Operating Temperature	(-20°C)~+50°C / (-4°F)~+122°F
Storage Temperature	(-40°C)~+80°C / (-40°F)~+176°F

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GENERAL	
Weight	318g / 0.7 lb. (with battery B2618LI)
Size:HxWxD (inch)	5.3” X 2.3” X 1.3” (without antenna)
Waterproof Level	IP54 Dust & Water Resistant

RECEIVE	
Frequency Stability	± 0.5 ppm
Analog Sensitivity	0.22μV / -120dBm (12dB SINAD)
Digital Sensitivity	0.2uV/-121dBm (BER 5%)
Intermodulation	60dB
Working Voltage	DC 7.4V
Adjacent Channel Selectivity	65dB@12.5KHz
Co-channel rejection	12dB@12.5KHz
Spurious Response Rejection	70dB
Receive Spurious Radiation	-57dBm@<1GHz, -47dBm@>1GHz
Block	84dB
Rated Audio Power Rated Audio Distortion	1W @16 Ohms ≤3%

TRANSMITTER	
Transmit power	5W
FM noise	40dB@12.5KHz
Intermodulation	60dB
Transmit Spurious Radiation	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5KHz
Modulation Limit	2.5KHz@12.5KHz
Idle Slot Power	-57dBm
Audio Response	+1dB---(-3)dB
Rated Audio Distortion	≤3%
FSK Error	≤3%
Emisson Designator (Analog)	16K0F3E / 11K0F3E
4FSK Digital Modulation	12.5KHz Data: 7K60F1D & 7K60FXD
	12.5khZ Voice: 7K60F1E & 7K60FXE
	Combination of 12.5 kHz Voice and Data: 7K60F1W

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SAFETY AND GENERAL INFORMATION

This radio is restricted to occupational use only to satisfy FCC RF energy exposure requirements. Before using this product, read the operating instructions.

- Turn radio off prior to entering any area with a potentially explosive atmosphere, such as gas, petroleum, chemicals, blasting caps, etc.
- Do not charge the battery in a potentially explosive atmosphere.
- Do not use any portable radio that has a damaged antenna, as it can burn skin.
- This equipment is to be serviced only by authorized RCA Communications Systems technicians. Any service performed by unauthorized technicians will void the warranty.
- Turn radio off when near electrical blasting caps to avoid possible interference with blasting operations. Obey posted signs such as those in hospitals or blasting areas advising people to turn off all two-way radios. Obey pilots and flight attendants instructions to turn off radios on airplanes.
- Do not place a radio over an air bag or in an air bag's deployment area, as the force with which an air bag is inflated could propel the radio and may cause serious injury.
- Do not place the radio close to a heat source or expose the radio to direct sunlight for a prolonged time.
- Hold the radio while in use in a vertical position with the microphone one to two inches away from your lips.
- While wearing a transmitting radio, keep the radio and its antenna at least one inch away from your body.

For a complete list of RCA approved antennas, batteries, chargers, holsters and audio accessories, visit:

http://www.rcacommunicationssystems.com

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PRODUCT INSPECTION

Prior to unpacking your RDR2000 Series portable radio, please inspect the packaging for signs of damage and report any damage or missing components immediately to your RCA Communications Systems Sales and Service Outlet. Every RDR2000 Series portable radio comes with the following items:

Item	Qty.
RDR2500™/RDR2550™/ RDR2600™ -Handheld Radio	1
B2618LI - Li-Ion Battery (1800 mAh)	1
ANH3500U - Antenna for UHF Models **ANH3500V** - Antenna for VHF Models	1
BC2600 - Belt Clip	1
Instruction Manual	1
CH2601* - Desktop Rapid Charger	1
PS2601* - Power Supply	1

RDR2500™
Handheld Radio

RDR2550™
Handheld Radio

RDR2600™
Handheld Radio

Antenna
ANH3500U - UHF models
ANH3500V - VHF models

BC2600
Belt Clip

B2618LI
Li-Ion Battery
(1800 mAh)

***Items sent in separate box if ordered.**

PS2601*
Power Supply

CH2601*
Desktop Rapid Charger

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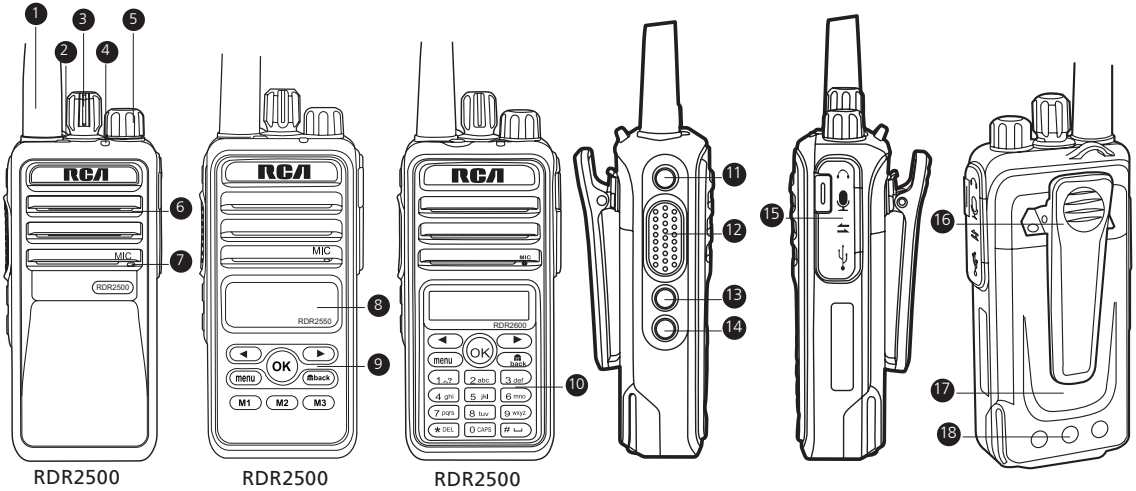
RCA RDR2000™ Series Overview



Note: The frequency band of your RDR2500™, RDR2550™ or RDR2600™ is marked on the radio label. If it is not visible, identify the frequency band according to the color circle on the antenna: white indicates UHF and red indicates VHF.

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RCA RDR2000™ Series Overview *(continued)*

1. Antenna
2. Top Button*
3. Channel Knob
4. LED Indicator
5. On/Off/Volume Knob
6. Speaker
7. Microphone
8. Display (RDR2550 / RDR2600)
9. Limited Keypad (RDR2550)
10. Full Keypad (RDR2600)
11. Side Button 1*
12. Push-to-Talk (PTT) Button
13. Side Button 2*
14. Side Button 3*
15. Accessories Connector
16. Screw-On Belt Clip
17. Battery
18. Battery Charging Contact Points

***** These buttons are programmable by your RCA Communications Systems Dealer only upon request at the time of purchase.

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.

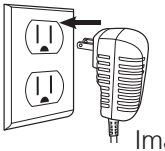

Image A

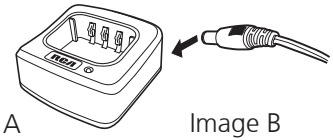

Image B

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Battery Information

Charging the Battery

Your radio is powered by a Lithium-Ion (Li-Ion) 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.

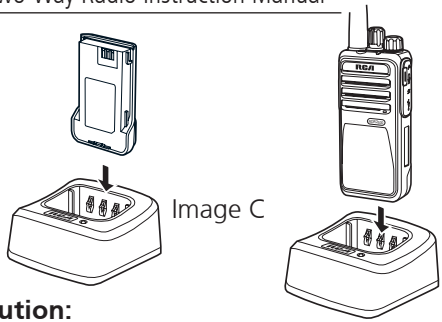

Image C

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

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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 a 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.

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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.

Figure 1

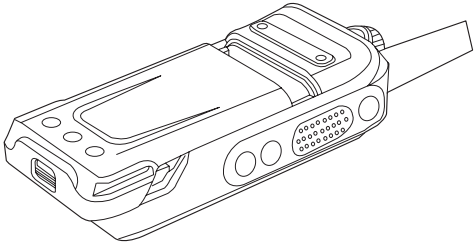
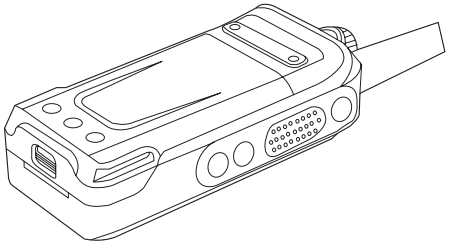


Figure 2



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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. (See Figure 4)

Note: Same for all RDR2000 Series Radios.

Figure 3

Figure 4

* If antenna needs to be replaced, ensure that only RCA Communications Systems antennas are used. Damaged Antennas may reduce your radio coverage.

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 5)

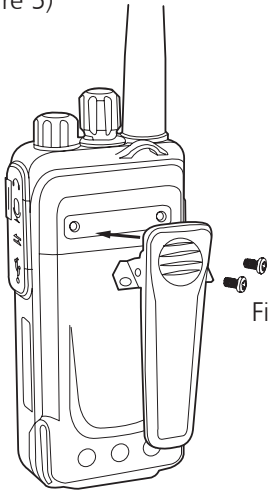

Figure 5

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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 6)

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.

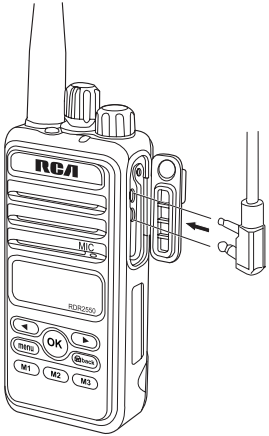

Figure 6

Turn On/Off the Radio

1. Rotate the On/Off/Volume Control Knob clockwise until you hear a click. (See Figure 8) The LED blinks green and a brief tone sounds, indicating that the power up test is successful. The RDR2550™/RDR2600™ radio displays "RCA PRODIGI" followed by "RCA RDR2550™"or "RCA RDR2600™".
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.

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Adjusting the Volume

To increase the volume, turn the On/Off/ Volume Control Knob clockwise. To decrease the volume, turn this knob counterclockwise. (See Figure 7)

Note: Same for all RDR2000 Series Radios.

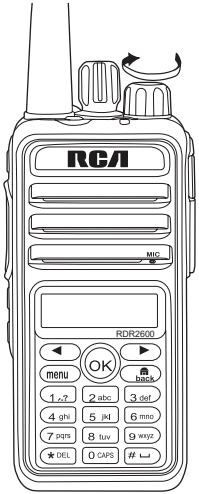

Figure 7

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:	
All Alert Tones On/Off	One Touch Access 6
Emergency On	Repeater/Talkaround
Emergency Off	Scan On/Off
Nuisance Delete	Tight/Normal Squelch
High/Low Transmit Power	Privacy On/Off
Monitor On/Off	VOX On/Off
One Touch Access 1	Lone Worker On/Off
One Touch Access 2	Manual Dial Private Call (RDR2600)
One Touch Access 3	Zone Toggle (Only RDR2500™)
One Touch Access 4	Battery Indicator (Only RDR2500™)
One Touch Access 5	

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All Alert Tones On/Off - Toggles all tones and alerts on or off.

Emergency On - Initiates an emergency alarm or call.

Emergency Off - Cancels an emergency alarm or call.

Nuisance Delete - Temporarily removes an unwanted channel, except for the Selected Channel, from the scan list. The Selected Channel refers to the user's selected zone/channel combination from which scan is initiated.

High/Low Transmit Power - Toggles transmit power level between high and low.

Monitor On/Off - Monitors a selected channel for activity.

One Touch Access - Directly initiates a predefined Private or Group Call, a Call Alert or a Quick Text message.

Scan On/Off - Toggles scan on or off. Tight/Normal Squelch - Toggles squelch level between tight and normal squelch levels. Privacy On/Off - Toggles privacy (basic voice encryption) on or off.

VOX On/Off - Toggles Voice Activated Function on or off.

Lone Worker On/Off - Toggles Lone Worker feature On or Off, on per channel basis.

Zone Toggle (Only RDR2500™) - Toggles between Channel Zone 1 and Channel Zone 2.

Battery Indicator (Only RDR2550™/RDR2550™) - Indicates battery charge level, low, medium or high.

Push-To-Talk (PTT) Button

The PTT button on the side of the radio has two main functions:

- Press and hold down PTT button to initiate and call and talk. Release the PTT button to listen. The microphone is activated when the PTT button is pressed.
- If a call is in progress, the PTT button allows

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the radio to transmit to the other radios that are part of the call.

Note: If the Talk Permit Tone is enabled, wait until the short alert tone ends before talking.

During a call, if the Channel Free Indication feature is enabled on your radio (programmed by your RCA Communications Systems Dealer), you will hear a short alert tone the moment the target radio (the radio that is receiving your call) releases the PTT button, indicating the channel is free for you to respond. You will also hear the Channel Free Indication tone if your call is interrupted, for example when the radio receives an Emergency Call.

Switching Between Analog and Digital Mode

Each channel in your radio can be programmed as an analog channel or a digital channel. Use the Channel Selector Knob to switch between an analog or a digital channel.

Note: When switching from digital to analog mode, certain features of the radio become unavailable.

Accessing the Programmed Functions

You can access various radio functions through one of the following ways:

A short or long press of the relevant programmable buttons.

OR

- To access the menu, press the [menu] button. Press the appropriate **Menu Scroll** button [◀ or ▶] to access the menu functions.

- To select a function or enter a sub-menu, press the OK button.

- To go back one menu level, or to return to the previous screen, press the [back] button. Long press the [back] button to return to the Home screen.

Note: Your radio automatically exits the menu after a period of inactivity and returns to your Home screen.

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Radio Keypad (Only RDR2600™)

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. ***Note:*** Some characters require that you press a key multiple times. The table shows the number of times a key needs to be pressed to generate the required character.

Number of Times Key is Pressed

Key	1	2	3	4	5	6	7	8	9	10	11	12	13
1.,?	1	.	,	?	!	@	&	‘	%	-	:	*	#
2abc	A	B	C	2									
3def	D	E	F	3									
4ghi	G	H	I	4									
5jkl	J	K	L	5									
6mno	M	N	O	6									
7pqrs	P	Q	R	S	7								
8tuv	T	U	V	8									
9wxyz	W	X	Y	Z	9								
0CAPS	0 NOTE: Press to enter “0” and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.												
*DEL	* or Del *NOTE:* Press during text entry to delete a character.												
# ␣	# or Space *NOTE:* Press during text entry to insert a space.												

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Operational Status Indicators

Your radio indicates its operational status through the following:

- Display Icons (RDR2550™/RDR2600™)
- Call Icons (RDR2550™/RDR2600™)
- Sent Item Icons (RDR2550™/RDR2600™)
- LED Indicator (RDR2500™/RDR2550™/RDR2600™)
- Audio Tones (RDR2500™/RDR2550™/RDR2600™)

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.

Monitor - Selected channel is being monitored.

Power Level - Radio is set at Low power. Radio is set at High power.

Tones Disable - Tones are turned off.

Scan - Scan feature is enabled.

Priority Scan - Radio detects activity on channel/group designated as Priority 1 (if • is blinking) or Priority 2 (if • is steady)

Unread Message - The radio has unread message(s) in the Inbox.

Inbox Full - The radio's Inbox is full.

Emergency - Radio is in Emergency mode.

Privacy - The Privacy feature is enabled.

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Talkaround - The radio is currently configured for direct radio to radio communication.

Battery - The number of bars (0 – 4) shown indicates the charge remaining in the battery. Icon blinks when the battery is low.

Call Icons

The following icons appear on the radio's display during a call and in the Contacts list to indicate ID type.

Private Call - Indicates a Private Call in progress. In the Contacts list, it indicates a subscriber alias (name) or ID (number).

Group Call/All Call - Indicates a Group Call or All Call in progress. In the Contacts list, it indicates a group alias (name) or ID (number).

Sent Item Icons

The following icons appear at the top right corner of the radio's display in the Sent Items folder.

Sent Successfully - The text message is sent successfully.

Send Failed - The text message cannot be sent.

In-Progress - The text message to a group alias or ID is pending transmission.

LED Indicator

The LED indicator shows the operational status of your radio.

Blinking Red - Radio is scanning, Radio is transmitting at low battery condition, receiving an emergency transmission or has failed the self-test upon powering up.

Solid Red - Radio is transmitting.

Blinking Green - Radio is powering up.

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Solid Green - Radio is receiving or carrier is present/busy channel.

Rapidly Blinking Green - Radio is receiving a privacy-enabled call or data.

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.

Continuous Tone - A monotone sound. Sounds continuously until termination.

Periodic Tone - Sounds periodically depending on the duration set by the radio.

Repetitive Tone - A single tone that repeats itself until it is terminated by the user.

Momentary Tone - Sounds only once for a short period of time defined by the radio.

Making and Receiving Calls

Selecting a Zone

Zones are groups of channels.

*RDR2500™ offers up to 2 zones with a maximum of 16 channels per zone.

* RDR2550™/RDR2600™ offers up to 250 zones with a maximum of 16 channels per zone.

Change zones with radio's function keys (RDR2500) as programmed by your RCA Communications Systems dealer or radio's Menu (RDR2550 / RDR2600).

1. Press the [menu] key to access the menu.
2. Press [◀ or ▶] to scroll to the Zone Menu.
3. Press [OK] to select.
4. The display shows the current Zone.
5. Press [◀ or ▶] to desired Zone and press [OK] to select.
6. The selected Zone displays momentarily then returns to the selected zone screen.

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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 blinks green.
2. The first line of the display shows the caller alias, and the RSSI icon. The second line displays the group alias and the Group Call icon *(RDR2550™/RDR2600™ in Digital mode 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 a Private Call

A Private Call is a call from an individual radio to another individual radio.

There are two types of Private 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 a Private Call:

1. The LED blinks green.
2. The first line of the display shows the subscriber alias or ID, and the RSSI icon. The second line displays Private Call and the Private Call icon. *(RDR2550™/RDR2600™ in Digital mode only).*

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3. Press the **[PTT]** to respond to the call; 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.
5. If there is no voice activity for a predetermined period of time, the call ends.

Receiving an 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 blinks green.
2. The first line of the display shows the subscriber alias or ID, and the RSSI icon. The second line displays All Call and the All Call icon. *(RDR2550™/RDR2600™ in Digital mode only).*
3. Once the All Call ends, the radio returns to the previous screen before receiving the call.

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 *RDR2600™*)

Making Call with Channel Selector Knob

Making a Group Call

To make a call to a group of users, your radio must be configured as part of that group.

1. Turn the Channel Selector Knob to select

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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 display (*RDR2550™/RDR2600™* only) shows the Group icon, group alias or ID, and transmitting radio alias or ID. ***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 a Private Call

1. Turn the Channel Selector Knob to select the channel with the active subscriber alias or ID.
2. Press the **[PTT]** button to make the call. The LED lights up solid red. The first line displays (*RDR2550™/RDR2600™* only) the subscriber alias or ID. The second line displays Private Call and the Private Call icon. ***Note:*** If Talk Permit Function is enabled, wait for the Talk Permit Tone to finish and then speak clearly into the microphone.
3. Release the **[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 (*RDR2550™/RDR2600™* 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.

1. Turn the Channel Selector Knob to select

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the channel with the active All Call group alias or ID.

2. Press the **[PTT]** button to make the call. The LED lights up solid red and the display (*RDR2550™/RDR2600™* only) shows the All Call group alias or ID, and the All Call icon.

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

Making a Group or Private Call with the One Touch Access Button

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 Private Call to the predefined alias or ID.
2. Press the **[PTT]** button to make the call. The display (*RDR2550™/RDR2600™* only) shows the group/subscriber alias or ID, and the Group/Private Call icon.

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. When the target radio responds, the LED blinks green.
4. If there is no voice activity for a predetermined period of time, the calls end. Radio returns to the screen (*RDR2550™/RDR2600™* only) 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 (*RDR2550™/RDR2600™* only) display regardless of any activity on the current channel. ***Note:*** This function is

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available only in digital mode.
Your radio supports 3 Emergency Alarms:

- Emergency Alarm
- Emergency Alarm with Call
- Emergency Alarm 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.

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.

Initiating & Responding to Emergency Alarm

1. To initiate an Emergency Alarm press the programmed Emergency button. The LED lights up solid red. The display (*RDR2550™/ RDR2600™* only) shows Sending Alarm, which alternates with your radio ID. Emergency icon appears on the Home screen display. When an Emergency Alarm acknowledgment is received, an alert tone sounds and the display (*RDR2550™/ RDR2600™* only) shows **Emergency Alarm Successful**. At this point depending on the setting selected you can press the **[PTT]** to talk or your radio's microphone is automatically activated, allowing you to communicate with the other radio without pressing the **[PTT]** button.
2. To Respond to an Emergency Alarm Press any button to stop all Emergency Alarm received indications. Press **[PTT]** button to initiate a call with the emergency initiating radio.

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Exiting Emergency Mode

Your radio exits Emergency mode automatically when any of the following occurs:

- Emergency Alarm acknowledgement is received (for Emergency Alarm only), OR
- All retries to send the alarm have been exhausted, OR
- The Emergency Off button is pressed, OR
- The [PTT] button is pressed

Note: If your radio is powered off, it exits the Emergency mode. The radio will not reinitiate the Emergency mode automatically when it is turned on again.

Advanced Features

Radio Check (RDR2550™/RDR2600™ only)

If enabled, this feature allows you to determine if another radio is active in a system without disturbing the user of that radio. No audible or visual notification is shown on the target radio.

Note: This feature is only applicable for subscriber aliases or IDs in digital mode.

Sending a Radio Check

Using the programmed Radio Check button.

1. Press [back] to access the menu.
2. Press [◀ or ▶] button to navigate to Contacts and press the [OK] to select.
3. Press [◀ or ▶] button to the required subscriber alias or ID and press [OK] to select. Or press [◀ or ▶] button to Manual Dial, then press [OK] twice, input subscriber ID, then press [OK] button.
4. Press [◀ or ▶] button to Radio Check, then press [OK] button.
5. The display shows Radio Check: <Subscriber Alias or ID>, indicating that Radio Check is in progress. The LED lights up red.
6. If the target radio is active in the system, a tone sounds and the display briefly shows **Target Radio Available** OR if the target radio is not active in the system, a tone sounds and the display briefly shows **Target Radio Not Available**.

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7. Press the [back] button is pressed while the radio is waiting for acknowledgement, the radio terminates all retries and exits Radio Check mode.

Remote Monitor (RDR2550™/RDR2600™ only)

Use the Remote Monitor feature to turn on the microphone of a target radio (subscriber alias or IDs only). No audible or visual indication is given to the target radio. You can use this feature to monitor, remotely, any audible activity surrounding the target radio. ***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 [menu] to access the menu.
2. Press [◀ or ▶] button to navigate to Contacts and press the [OK] to select.
3. Press [◀ or ▶] button to the required subscriber alias or ID and press [OK] button to select Or press [◀ or ▶] button to Manual Dial, then press [OK] twice. Input subscriber alias or ID and press [OK] button.
4. Press [◀ or ▶] button to Remote Monitor and press [OK] button.
5. The screen will display remote monitor: <Subscriber alias or ID>, indicating that Remote Monitor is in progress. The LED blinks red.
6. The display shows Remote Monitor Successful OR The display shows Remote Monitor Failed.
7. If successful, the radio will start receiving audio from the monitored radio for a programmed duration. Once the timer expires the LED turns off.

Contacts Settings (RDR2550™/RDR2600™ only)

Contacts provide “address-book” capabilities on your radio. Each entry corresponds to an alias or ID that you can use to initiate a call. Additionally each entry, depending on context, associates

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with one of three types of calls: Group Call, Private Call, All Call. Each entry within Contacts displays the following information:

- Call Type
- Call Alias
- Call ID

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

Making a Group Call from Contacts

1. Press [menu] to access the menu.
2. Press [◀ or ▶] button to navigate to Contacts and press the [OK] button to select. All entries are alphabetically sorted.
3. Press [◀ or ▶] button to the required group alias or ID.
4. Press **[PTT]** button to make the call. The LED lights up solid red. The display shows Group Call icon, the group alias or ID, and the Group Call icon.
5. Release the **[PTT]** button to listen, when any user in the group responds, the LED blinks green. You see Group Call icon, the group ID, and that user's ID on your display.
6. 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 a Private Call from Contacts

1. Press [menu] to access the menu.
2. Press [◀ or ▶] button to navigate to Contacts and press the [OK] button to select.
3. Press [◀ or ▶] button to navigate to desired subscriber alias or ID or Manual Dial option and press [OK] twice. Use the keypad to input the subscriber ID. The second line displays Private Call and the Private Call icon.
4. Press the **[PTT]** to make the call. The first line displays the subscriber alias or ID and the second line displays Private Call and the Private Call icon.

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5. Release the **[PTT]** to listen. When the target radio responds, the LED blinks green and the display shows the transmitting user's ID.
6. If there is no voice activity for the programmed period of time then 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 Features

Your radio keeps track of all recent outgoing, answered, and missed Private 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 Missed, Answered, and Outgoing. ***Note:*** When you select a Call List and it contains no entries, the display shows List Empty.

Accessing the Call Log

Use the programmed Remote Monitor button.

1. Press [menu] to access the menu.
2. Press[◀ or ▶] button to navigate to Call Log and press the [OK] to select.
3. Press[◀ or ▶] button to navigate to the desired list and press [OK] to select. The most recent entry is displayed first.
4. Use the[◀ or ▶] buttons to scroll through the list.
5. Press the **[PTT]** to initiate a call.

Storing an Alias or ID from the Missed Call List

1. While viewing an entry from the Call Log list press [OK] to select.
2. Press[◀ or ▶] button to navigate to **[Store]**.
3. Press [OK].
4. Use the keypad to input a name.
5. Press [OK] to confirm.
6. The display shows Contact Saved.

Deleting a Call from a Call List

1. While viewing an entry from the Call Log list press [OK] to select.
2. Press [◀ or ▶] button to navigate to **[Delete]**.

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3. Press [OK].
4. Press [OK] again to confirm.
5. The display shows Entry Deleted.
6. Press [OK] again to return to main manu.

Call Alert Operation (RDR2550™/RDR2600™ only)

Call Alert paging enables you to alert a specific radio user to call you back when they are able to do so.

This feature is applicable for subscriber aliases or IDs only and is accessible through the menu via Contacts or manual dial.

Receiving and Responding to a Call Alert

When you receive a Call Alert page, on the display you see Call Alert that alternates with the alias or ID of the calling radio.

1. LED blinks red.
2. Press and release **[PTT]** button to confirm the prompt, or press [OK] button to select "Ignore?" and to exit the Call Alert.

Making a Call Alert from the Contact List

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Contacts and press [OK] to select.
3. Press [◀ or ▶] to the desired subscriber alias or ID and press [OK] to select or Press [◀ or ▶] to the Manual Dial option and press [OK] twice. Use the keypad to input the subscriber ID.
4. Press [◀ or ▶] to Call Alert and press [OK].
5. The display shows Call Alert: <Subscriber Alias or ID>, indicating that the Call Alert has been sent.
6. The LED lights up red when your radio is sending the Call Alert. If the Call Alert acknowledgement is received, a tone sounds and the display shows Call Alert successful. OR if the Call Alert acknowledgement is not received, a tone sounds and the display shows Call Alert Failed.

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Text Message Features (RDR2550™/ RDR2600™ only)

Your radio is able to receive data such as a text message from another radio. The maximum length of characters for a text message is 164.

Navigate to Messages

1. Press [menu] to access the menu.
2. Press[◀ or ▶] to navigate to Messages.

Note: Press [back] button at any time to return to previous screen.

Writing and Sending Text Message (RDR2600™ only)

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Contacts and press [OK] to select.
3. Press [◀ or ▶] to navigate to Write and press [OK] to select.
4. A blinking cursor appears, use the keypad to type your message. Press [◀] to move one space to the left. Press [▶ or the (#)] key to move one space to the right. Press **[* DEL]** key to delete any unwanted characters.
5. Press [OK] button to send or save the message.
6. Select Send and press [◀ or ▶] to the required alias or ID and press [OK] to send the message, or press [◀ or ▶] to Manual Dial, press [OK] button, input subscriber ID and press [OK] button to confirm.
7. The radio display shows Text Message: <Subscriber/Group Alias or ID>, which confirms your message is being sent.
8. If the message is sent, a tone sounds and the display shows Message Sent. If the message is not sent, a high tone sounds and the display shows Message Send Failed. If the text message fails to send, the radio returns you to the Resend option screen.

Note: If you exit the message sending screen

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while the message is being sent, the radio updates the status of the message in the Sent Items folder without providing any indication in the display or via sound. If the radio changes mode or powers down before the status of the message in Sent Items is updated, the radio cannot complete any In-Progress messages and automatically marks it with a Send Failed icon. The radio supports a maximum of five (5) In-Progress messages at one time. During this period, the radio cannot send any new message and automatically marks it with a Send Failed icon.

Sending a Quick Text Message (RDR2550™/RDR2600™ only)

Your radio supports a maximum of 50 Quick Text messages as programmed by your RCA Communications Systems dealer. While Quick Text messages are predefined, you can edit each message before sending it.

1. Press [menu] to access the menu.
2. Press[◀ or ▶] to navigate to Messages.
3. Press [◀ or ▶] to Quick Text and press [OK] to select.
4. Press [◀ or ▶] to the desired Quick Text and press [OK] to select.

A blinking cursor appears. Use the keypad to edit the message, if needed. Press [◀] to move one space to the left. Press [▶ or the (**#**)] key to move one space to the right. Press **[* DEL]** key to delete any unwanted characters.

5. Press [◀ or ▶] button to send or store once message is completed.
6. Select Send and press [◀ or ▶] to the required alias or ID and press [OK] to send the message, or press [◀ or ▶] to Manual Dial, press [OK] button, input subscriber ID and press [OK] button.
7. The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
8. If the message is sent successfully, a tone

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sounds and the display shows Message Sent. OR if the message cannot be sent, a high tone sounds and the display show Message Send Failed. If the text message fails to send, the radio returns you to the Resend option screen.

Note: If programmed by your RCA Communications Systems dealer you can also press One Touch Access button to send a predefined Quick Text message to a predefined alias or ID.

Managing Fail-to-Send Text Messages

You can select one of the following options while at the Resend option screen:

- Resend
- Forward
- Edit

Resend Text Message

1. Press [OK] to resend the same message to the same subscriber / group alias or ID.
2. If the message is sent successfully, a tone sounds and the display shows Message Sent. OR if the message cannot be sent, the display shows Message Send Failed.

Forwarding a Text Message

Select Forward to send the message to another subscriber/group alias or ID.

1. Press [◀ or ▶] button to navigate to Forward and press the [OK] to select.
2. Press [◀ or ▶] to navigate to the required alias or ID and press [OK] to send. OR press [◀ or ▶] to navigate to Manual Dial and press [OK], input subscriber ID then press [OK] button.
3. The display shows Text Message: <Subscriber/Group Alias or ID> confirming your message is being sent.
4. If the message is sent successfully, a tone sounds and the display shows Message Sent. If the message is not sent, a high tone sounds and the display shows Message Send Failed.

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Editing a Text Message (RDR2600™ only)

Select Edit to edit the message before sending it.

1. Press [◀ or ▶] button to navigate to Edit and press [OK] to select.
2. A blinking cursor appears beside the message. Use the keypad to edit your message. Press [◀] to move one space to the left. Press [▶ or the (#)] key to move one space to the right. Press **[* DEL]** key to delete any unwanted characters.
3. Press [OK] button to send or store once message is completed.
4. Select Send and press [◀ or ▶] to navigate to the desired alias or ID and press [OK] to send the message, or press [◀ or ▶] to navigate to Manual Dial, press [OK] button, input subscriber ID and press [OK] button.
5. The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
6. If the message is sent successfully, a tone sounds and the display shows Message Sent. If the message cannot be sent, a high tone sounds and the display shows Message Send Failed.

Managing Sent Text Message (RDR2550™/ RDR2600™ only)

Once a message is sent to another radio, it is saved in Sent Items. The most recent sent text message is always added to the top of the Sent Items list.

The Sent Items folder is capable of storing a maximum of fifty (50) last sent message. When the folder is full, the next sent text message automatically replaces the oldest text message in the folder.

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

Viewing Sent Text Messages (RDR2550™/ RDR2600™ only)

1. Press [menu] to access the menu.

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2. Press [◀ or ▶] to navigate to Messages and press [OK] to select
3. Press [◀ or ▶] to navigate to Sent Items and press [OK] to select.
4. Press [◀ or ▶] to navigate to the desired message and press [OK] button.

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

- Resend
- Forward
- Edit
- Delete

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

To perform any of the functions:

1. Press [OK] again while viewing message.
2. Press [◀ or ▶] to navigate to Resend, Forward, Edit or Delete and press [OK] to select.
3. If you select **[Resend]** or **[Edit]** and then **[Send]** the display will show Text Message: <Subscriber/Group alias or ID>, confirming that the same message is being sent to the same target radio.
4. If the message is sent, a tone sounds and the display shows Message Sent. If the message is not sent, a high tone sounds and the display shows Message Send Failed. The radio returns to the Resend option screen. Press [OK] to resend the message to the same subscriber/group alias or ID.

Deleting All Sent Text Message from Sent Items (RDR2550™/RDR2600™ only)

1. Press [menu] button to menu mode.
2. Press [◀ or ▶] to navigate to Messages and press [OK] to select.
3. Press [◀ or ▶] to navigate to Sent Items and press [OK] to select.
4. Press [◀ or ▶] to navigate Delete All and press [OK] to select.
5. The display shows Delete Message?, press

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[OK] to confirm. The display shows Sent Items Cleared.

Receiving a Text Message (RDR2550™/RDR2600™ only)

When your radio receives a message, the display shows the alias or ID of the sender and the Message icon at the far left of the screen. You can select one of the following options when receiving a text message:

- Read?
- Read Later
- Delete

Reading a Text Message (RDR2550™/RDR2600™ only)

1. Press [◀ or ▶] to navigate to **[Read]** and press [OK] to select.
2. Selected message in the Inbox opens, press [OK] to return to Home Screen or press [◀ or ▶] enter into Read Later or Delete option screen.
   - Select Read Later to return to the screen you were on prior to receiving the text message.
   - Select Delete to delete the text message.

Managing Received Text Message (RDR2550™/RDR2600™ only)

Use the Inbox to manage your text messages. The Inbox is capable of storing a maximum of 50 messages. Your radio supports the following options for text messages:

- Reply
- Forward
- Delete
- Delete All

Text messages in the Inbox are sorted according the date they were received.

Press the [back] button at any time to return to the previous menu.

Viewing a Text Message from the Inbox (RDR2550™/RDR2600™ only)

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Messages

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and press [OK] to select.

3. Press [◀ or ▶] to navigate to Inbox and press [OK] to select.
4. Press [OK] to view the current message. Unread messages are indicated with an exclamation mark. (!)

Replying to a Text Message from the Inbox (RDR2550™/RDR2600™ only)

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Messages and press [OK] to select.
3. Press [◀ or ▶] to navigate to Inbox and press [OK] to select.
4. Press [OK] to select current message, and press [OK] to select. Press [OK] again to access the sub-menu and select Reply, Forward or Delete the message.
5. Press [◀ or ▶] to navigate to Reply and press [OK] to select.
6. Press [◀ or ▶] to navigate to Write and press [OK] to select. A blinking cursor appears. Use the keypad to write your message OR press [◀ or ▶] to navigate to Quick Text and press [OK]. After selecting the desired message press [OK] button. A blinking cursor appears. Use the keypad to edit your message, if required.
7. Press [OK] to send and [OK] again to confirm.
8. The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
9. If the message is sent successfully, a tone sounds and the display shows Message Sent. If the message cannot be sent, the display shows Message Send Failed. If the message fails to send, the radio returns to the Resend option screen.

Deleting a Text Message from the Inbox (RDR2550™/RDR2600™ only)

1. Press [menu] to access the menu.

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2. Press [◀ or ▶] to navigate to Messages and press [OK] to select.
3. Press [◀ or ▶] to navigate to Inbox and press [OK] to select.
4. Press [OK] to select current message, and press [OK] to select. Press [OK] again to access the sub-menu to Reply, Forward or Delete the message.
5. Press [◀ or ▶] to navigate to Delete and press [OK] to select.
6. Press [◀ or ▶] to navigate to Delete and press [OK] to select.
7. At Delete Message?, press[◀ or ▶] to navigate to Yes and press [OK]. The display shows Message Deleted.

Note: When you select the Inbox and it contains no text messages, the display shows List Empty.

Privacy

If enabled, this feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software based scrambling solution.

Your radio must have privacy enabled on the channel to send a privacy-enabled transmission. To unscramble a privacy-enabled call or data transmission, your radio must be programmed by your RCA Communications Systems dealer to have the same Privacy Key Value and Privacy Key ID as the transmitting radio. If your radio receives a scrambled call that is of a different Privacy Key Value and Privacy Key ID, you will hear a garbled voice transmission.

The LED lights up solid green while the radio is transmitting and blinks green rapidly when the radio is receiving an ongoing privacy-enabled transmission.

You can preprogram 16 groups privacy, encryption keys by software, press programmed Privacy button to Turn On or Turn Off Privacy. You can also turn on and off the Privacy through the Menu of the radio

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(RDR2550™/RDR2600™ only).

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Privacy and press [OK] to select.
5. The display shows Privacy and Turn On. Press [OK] to enable privacy. The display shows Privacy On. If the Privacy was already on the display shows Privacy and Turn Off. Press [OK] to disable privacy. The display shows Privacy Off.

If the radio has privacy assigned to a channel, the Home screen of the radio (RDR2600™ only) shows the secure or insecure icon.

Note: This feature is available only in digital mode.

Dual Tone Multi Frequency (DTMF)

The Dual Tone Multi Frequency (DTMF) feature allows the radio to operate in a radio system with an interface to telephone or other DTMF based systems. DTMF Codes can be programmed into the radio by your RCA Communications Systems dealer. DTMF receive/transmit feature has four optional modes with 32 encode groups with up to 30 characters per group.

To use this feature, your radio must have an access code, which is system dependent. Please contact with your RCA Communications Systems dealer or system administrator for more information.

Security (RDR2550™/RDR2600™ only)

Using this feature you can enable or disable any radio within your system. For example, you might want to disable a stolen radio, to preventing a thief from using it, then enable that radio once recovered.

This feature allows you to perform the following functions:

Radio Kill: Radio's receive / transmit functions become disabled after the radio receives the

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Kill code set by your RCA Communications Systems dealer.

Radio Active: Radio's receive / transmit functions become enabled, when the radio is in Kill status, after the radio receives the Active code set by your RCA Communications Systems dealer.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Contacts and press [OK] to select.
3. Press [◀ or ▶] to navigate to the desired subscriber alias or ID and press [OK] to select. You can also press [◀ or ▶] to navigate to Manual Dial and press [OK] twice, input subscriber ID and press [OK] to select.
4. Press [◀ or ▶] to navigate to Radio Kill and press [OK] to select.
5. The display shows Radio Kill: <Subscriber alias or ID> and LED indicator lights red. Radio Active can be initiated through the Menu of your radio (RDR2550™/RDR2600™ only).
6. If successful, a tone sounds and the display shows Radio Kill successfully. If failed, a tone sounds and the display shows Radio Kill failed.

Note: Do not press the [back] button to return to the previous Menu until the operation is complete.

Radio Active

Radio Active can be initiated through the Menu of your radio (RDR2550™/RDR2600™ only).

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Contacts and press [OK] to select.
3. Press [◀ or ▶] to navigate to the desired subscriber alias or ID and press [OK] to select. You can also press [◀ or ▶] to navigate to Manual Dial and press [OK]twice, input subscriber ID and press [OK] to select.

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4. Press [◀ or ▶] to navigate to Radio Active and press [OK] to select.
5. The display shows Radio Active: <Subscriber alias or ID> and LED indicator lights red.
6. If successful, a tone sounds and the display shows Radio Active successfully. If failed, a tone sounds and the display shows Radio Active failed.

Note: Do not press the [back] button to return to the previous Menu until the operation is complete.

Scan

Scan lists are created and assigned to individual channels / groups. The radio scans for voice activity by cycling through the channel/group sequence specified in the scan list for the current channel / group. Your radio can support up to 250 scan lists, with a maximum of 16 members in a list. Each scan list supports 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 (RDR2550™/RDR2600™ only)

1. Use the Channel Selector Knob to select a channel programmed with a scan list.
2. Press [menu] to access the menu.
3. Press [◀ or ▶] to navigate to Scan and press [OK] to select.
4. Press [◀ or ▶] to navigate to View List and press [OK] to select.
5. Use [◀ or ▶] to view the members on the scan list.

Note: If set as priority, the Priority icon appears left of the member's alias, indicate whether the member is on a Priority 1 or Priority 2 channel list. You cannot have multiple Priority 1 or Priority 2 channels in a scan list. There is no Priority icon if priority is set to None.

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

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LED blinks red and you see the Scan icon on the display (RDR2550™/RDR2600™ only).

There are two ways of initiating scan:

- **Manual Scan:** Initiate scan manually using the programmed by your RCA Communications Systems dealer Scan ON/OFF side button or menu function (RDR2600™ only). 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 (RDR2600™ only):

1. Use the Channel Selector Knob to select a channel programmed with a scan list.
2. Press [menu] to access the menu.
3. Press [◀ or ▶] to navigate to Scan and press [OK] to select.
4. The display shows Turn Off if scan is disabled or the display shows Turn on if scan is enabled.
5. Press [OK] to select.
6. The LED blinks red 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 PTT button to listen.

Note: If you do not respond within the hang time period, the radio continues scanning other channels / groups.

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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.

Utilities

Keypad Locked and Keypad Unlocked

(RDR2600™ Only)

You can lock your radio's keypad to avoid an inadvertent key press.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Keypad Lock and press [OK] to select.
5. The display shows Keypad Locked and returns to the Home screen.

To unlock the keypad, press [menu] button then press **[*DEL]** button. The display shows Keypad Unlocked and returns to the Home screen.

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Turning Keypad Tones On or Off

(RDR2600™ Only)

You can enable and disable keypad tones if needed.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Tone/ Alerts and press [OK] to select.
5. Press [◀ or ▶] to navigate to Keypad Tones and press [OK] to select.
6. If the display shows Turn On, Press [OK] to enable the keypad tones. If the display shows Turn Off press [OK] to disable the keypad tones.

Setting the Squelch Level

You can adjust your radio's squelch level to filter out unwanted calls with low signal strength or channels that have a higher than normal background noise.

Settings: Normal is the default level. Tight may help to filter out (unwanted) calls and / or background noise. However, calls from radio within your system that are in very remote locations may also be filtered out.

Press the programmed Squelch button to toggle squelch level between normal and tight or follow the procedure below to adjust the Squelch Level through the Menu (RDR2550™/ RDR2600™ only).

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Squelch and press [OK] to select.
5. Choose either Tight or Normal and press [OK] button, screen returns to the previous menu.

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Setting the Power Level

You can customize your radio's power setting to high or low for each channel.

Settings: High enables communication with radios located at a considerable distance from you. Low enables communication with radios in closer proximity.

Press the programmed Power Level button to toggle transmits power level between high and low or follow the procedure below to adjust the Power Level through the Menu (RDR2550™/RDR2600™ only).

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Power and press [OK] button.
5. Change your current setting as prompted on the display and press [OK] to select new power level.

Press the [back] button to return to the Home screen. The display shows the Power Level icon.

Turning Voice Operating Transmission (VOX) Feature On or Off

This feature allows you to initiate a hands-free voice activated call on a programmed channel.

Note: Turning this feature on or off is limited to radios with this function enabled.

Press the programmed VOX button to toggle the feature on or off or follow the procedure below to activate or deactivate VOX through the Menu (RDR2550™/RDR2600™ only).

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to VOX and

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press [OK] to select.

5. If the display shows VOX On. Press [OK] to enable VOX, display shows VOX On. If the display shows VOX Off. Press [OK] to disable VOX and display shows VOX Off.

Controlling the Display Backlight

(RDR2550™/RDR2600™ only)

You can enable or disable the radio's display backlight as needed. The setting also affects the Menu navigation buttons and keypad backlighting accordingly.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Backlight and press [OK] button.
5. If the display shows "Auto On". Press [OK] to enable the display backlight and the display shows "Backlight Auto On". If the display shows "Turn Off" press [OK] to disable the display backlight and the display shows "Backlight Turn Off".

Note: The display backlight and keypad backlight are automatically turned off if the LED indicator is disabled.

Talkaround

This feature toggles between repeater and talkaround (direct) mode. If you are using a repeater and your repeater is not operating or you are out of it's range, you can continue to communicate during that time directly with other radios within your group. This is called "talkaround".

Press the programmed Repeater / Talkaround button to toggle between talkaround and repeater modes or follow the instructions below to use Menu of your radio (RDR2550™/RDR2600™ only).

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities

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and press [OK] to select.

3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Talkaround and press [OK] to select.
5. If the radio is currently in Repeater Mode display shows "Turn On". If the radio is in Talkaround Mode the display shows Turn Off.
6. Press [OK] to select. The display shows Talkaround On or Talkaround Off.
7. The screen automatically returns to the previous menu.
8. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.

Turning the Radio Tones/Alert On or Off (RDR2550™/RDR2600™ only)

You can enable and disable all radio tones and alerts (except for the incoming Emergency alert tone) if needed.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to All Tones/ Alerts and press [OK] to select.
5. Press [◀ or ▶] to navigate to All Tones and press [OK] to select.
6. If the display shows Turn On press [OK] to enable all tones and alerts and the display shows All Tones On. If the display shows Turn Off press [OK] to disable all tones and alerts and the display shows All Tones Off.

Turning the LED Indicator On or Off (RDR2550™/RDR2600™ only)

You can enable and disable the LED Indicator if needed.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio

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Settings and press [OK] to select.

4. Press [◀ or ▶] to navigate to LED Indicator and press [OK] button.
5. If the display shows Turn On. Press [OK] to enable the LED Indicator and the display shows All LEDs On. If the display shows Turn Off press [OK] to disable the LED Indicator and the display shows All LEDs Off.

Note: The display backlight, buttons and keypad backlight are automatically turned off if the LED indicator is disabled.

Turning the Introduction Screen On or Off (RDR2550™/RDR2600™ only)

You can enable and disable the Introduction Screen if needed.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Settings and press [OK] to select.
4. Press [◀ or ▶] to navigate to Intro Screen and press [OK] to select.
5. If The display shows Turn On press [OK] to enable the Introduction Screen and the display shows Intro Screen On. If the display shows Turn Off press [OK] to disable the Introduction Screen and the display shows Intro Screen Off.

Accessing General Radio Information (RDR2550™/RDR2600™ only)

Your radio contains information on the following:

- Radio ID
- Software version
- Codeplug Version

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

Checking the Radio ID (RDR2550™/RDR2600™ only)

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities

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and press [OK] to select.

3. Press [◀ or ▶] to navigate to Radio Info and press [OK] to select.
4. Press [◀ or ▶] to navigate to My Number and press [OK] button.
5. The display shows radio ID and alias.

Checking the Firmware Version

(RDR2550™/RDR2600™ only)

Display the firmware version on your radio.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Info and press [OK] to select.
4. Press [◀ or ▶] to navigate to Firmware Ver. and press [OK] button.
5. The display shows the current Firmware version.

Checking the Codeplug Version

(RDR2550™/RDR2600™ only)

Display the codeplug version on your radio.

1. Press [menu] to access the menu.
2. Press [◀ or ▶] to navigate to Utilities and press [OK] to select.
3. Press [◀ or ▶] to navigate to Radio Info and press [OK] to select.
4. Press [◀ or ▶] to navigate to CP Ver. and press [OK] button.
5. The display shows the current Codeplug version.

CARE AND CLEANING

- Do not hold the radio by its antenna or external microphone.
- Do not place the radio in a dusty environment.
- Clean with a lint-free cloth moistened with clean water or a mild dishwashing liquid.
- Avoid exposing to corrosives, solvents or spirits.

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TROUBLESHOOTING

Symptom	Solution
Radio will not power on	a. The battery needs charging. Recharge the battery or replace it with a fresh one. b. 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.	a. The battery has worn out; it is time to buy a new battery. b. 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	a. Make sure that your radio operates on the same channel and / or has the same CTCSS/CDCSS settings as your group members. b. Make sure you are within their communication range.
Radio is on, but you cannot hear voice transmissions or they are not very loud	a. Turn the volume control knob to its maximum volume. b. Return the radio to your dealer to check for microphone damage.

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Optional Accessories

Note: Only the use of Genuine RCA accessories will guarantee compatibility and maximum performance of your radios.

	Stubby Antenna **ANH3500U-3** - UHF **ANH3500V-3** - VHF More compact and convenient than the standard antenna, but reduces coverage by approximately 30%.
	Multi-Unit Rapid-Rate Charger **CHU6** More convenient and saves space by using one power outlet for 6 radios.
	Battery Upgrade **B2623LI** 7.4V 2300mAh 17.02 Wh

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Optional Accessories *continued*

	Heavy Duty, Remote Speaker Microphone **SM310-X03S** No need to remove the radio from your waist, which helps prevent radio damage or loss.
	Medium Duty, Remote Speaker Microphone **SM220-X03S** No need to remove the radio from your waist, which helps prevent radio damage or loss.
	D-Loop Style Surveillance Kit with In-line PTT **SK11DL-X03S** Professional, 1-Wire, high quality earpiece ideal for radio users requiring discreet communication

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Optional Accessories *continued*	
	Ear Hook Style Surveillance Kit with In-line PTT **SK11EH-X03S** Professional, 1-Wire, high quality earpiece ideal for radio users requiring discreet communication
	In-Ear Style, 1-Wire Surveillance Kit with In-line PTT **SK11NE-X03S** Professional, 1-Wire, high quality earpiece ideal for radio users requiring discreet communication
	In-Ear Style, 2-Wire Surveillance Kit with In-line PTT **SK21NE-X03S** Professional, 2-Wire, high quality earpiece ideal for radio users requiring discreet communication
	In-Ear Style, 3-Wire Surveillance Kit with In-line PTT **SK31NE-X03S** Professional, 3-Wire, high quality earpiece ideal for radio users requiring discreet communication

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Optional Accessories *continued*

	Lightweight Behind-The-Head Headset with In-line PTT **HS11V-X03S** Durable and inexpensive. Perfect for retail stores, restaurants and bars.
	High Noise, Over-The-Head Double Ear Headset **HS61NR-X03S** For use in high noise environments such as airports, race tracks and manufacturing plants (-24dB noise reduction).
	High Noise, Behind-The-Head Headset **HS71NR-X03S** When a hard hat is necessary in high noise environments.

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Optional Accessories *continued*

	Nylon Holsters for RDR2500™ /RDR2550™/RDR2600™ **HS3500FC** - Nylon Holster with fixed clip **HS3500FL** - Nylon Holster with fixed belt loop **HS3500SC** - Nylon Holster with swivel clip **HS3500SL** - Nylon Holster with swivel belt loop **HS3600FC** - Nylon Holster with fixed clip, with keypad and display **HS3600FL** - Nylon Holster with fixed belt loop, with keypad and display **HS3600SC** - Nylon Holster with swivel clip, with keypad and display **HS3600SL** - Nylon Holster with swivel belt loop, with keypad and display
	Leather Holsters for RDR2500™ /RDR2550™/RDR2600™ **HL3500FC** - Leather Holster with fixed clip **HL3500FL** - Leather Holster with fixed belt loop **HL3500SC** - Leather Holster with swivel clip **HL3500SL** - Leather Holster with swivel belt loop **HL3600FC** - Leather Holster with fixed clip, with keypad and display **HL3600FL** - Leather Holster with fixed belt loop, with keypad and display **HL3600SC** - Leather Holster with swivel clip, with keypad and display **HL3600SL** - Leather Holster with swivel belt loop, with keypad and display

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Optional Accessories *continued*

	Chest Pack **CHEST-A** For those applications when securing the RDR2000™ Series radio to your waist is not possible.

FCC Caution:

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

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.

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.

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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.

RF Exposure Compliance and Control Guidelines and Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environment 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) button. To receive calls, release the PTT button.

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Transmitting 50% of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance). Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.

When worn on the body, always place the radio in a approved clip, holder, holster, case, or body harness for this product.

Using approved body-worn accessories is important because the use of or other manufacturer's non-approved accessories may result in exposure levels, which exceed the FCC's occupational/controlled environment RF exposure limits.

If you are not using a body-worn accessory and are not using the radio in the intended use position in front of the face, then ensure the antenna and the radio are kept at least 2.5 cm (one inch) from the body when transmitting. Keeping the radio at the proper distance is important because RF exposures decrease with increasing distance from the antenna.

Use only RCA Communications Systems approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-nameapproved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.

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WARRANTY STATEMENT

RCA Communications Systems warrants each new radio product it supplies to be free from defects in material and workmanship under normal use and service for the time period listed below, provided that the user has complied with the requirements stated herein.

The warranty period begins on the date of purchase from an Authorized RCA Communications Systems Sales and Service Outlet. This warranty is offered to the original end user and is not assignable or transferable. RCA Communications Systems is not responsible for any ancillary equipment which is attached to or used in conjunction with RCA Communications Systems products.

RCA Communications Systems offers to the original end user a Three (3) Year Limited Warranty on the RCA RDR2500™, RDR2550™, or RDR2600™ Radio Handset. The RDR2500™, RDR2550™, or RDR2600™ Antenna, RDR2500™, RDR2550™, or RDR2600™ Battery and the RDR2500™, RDR2550™, or RDR2600™ Battery Charger are covered under a One (1) Year Limited Warranty. The RDR2500™, RDR2550™, or RDR2600™ Belt Clip is not covered under the warranty.

During this period, if the product fails to function under normal use because of manufacturing defect(s) or workmanship, it should be returned to the Authorized RCA Communications Systems Sales and Service Outlet from which it was purchased. The Sales and Service Outlet will repair the product to full operating specifications or replace the product with a new product of the same make and model. The user is responsible for all charges incurred in returning the product to the Authorized RCA Communications Systems Sales and Service Outlet. RCA Communications Systems will be responsible for all charges in returning the product to the end user via standard ground shipping service.

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RCA Communications Systems shall have no obligation to repair or replace the product, if there is damage as a result of normal wear and tear or if the damage is caused in whole or in part by catastrophe, fault or negligence of the user, improper or unauthorized alterations or repairs to the product, incorrect wiring, use of the product in a manner for which it was not designed, or by causes external to the product. This warranty is void if the product serial number is altered, defaced or removed.

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For Sales, Warranty and Customer Support please contact:

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