



SIRPNP

Plug and Play Receiver



User's Guide

Dear Customer

Congratulations on your purchase of the world's finest brand in the electronic industry. At Clarion we are committed to high-quality sound reproduction, and are confident that you will be pleased with your purchase.

Clarion's Sirius Satellite Plug and Play Receiver provides entertainment with the flexibility of both home and car use.

100 streams (channels) of original programming received in high-quality digital sound provide:

- 60 channels of commercial-free music
- 40 channels of news, sports and entertainment

Your Plug and Play receiver requires one or both of the following adapter kits for operation:

- Home/Office Kit part number: SIRHM
- Automobile Kit part number: SIRCR

Clarion and Sirius Satellite Radio welcome you to an experience like no other.

To learn more about Clarion's complete line of audio products, please visit us at our Website:

www.clarion.com

Vehicle Precautions

Follow these precautions to avoid a serious auto accident or personal injury:

- Do not mount the Plug and Play receiver where it will block your view through the windshield or your view of dashboard indicators and displays.
- Do not mount the Plug and Play receiver where it might obstruct the operation of a safety device, such as air bags.
- Do not let the receiver distract you as you drive. You are responsible for the vehicle. Always drive safely and follow traffic rules.

FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Copyright and Trademarks

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SIRIUS is a registered trademark of SIRIUS Satellite Radio.

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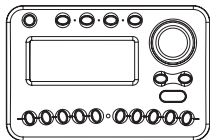
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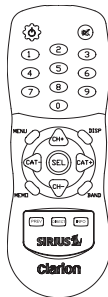
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1. Getting Started

What comes in the box



Plug and Play receiver



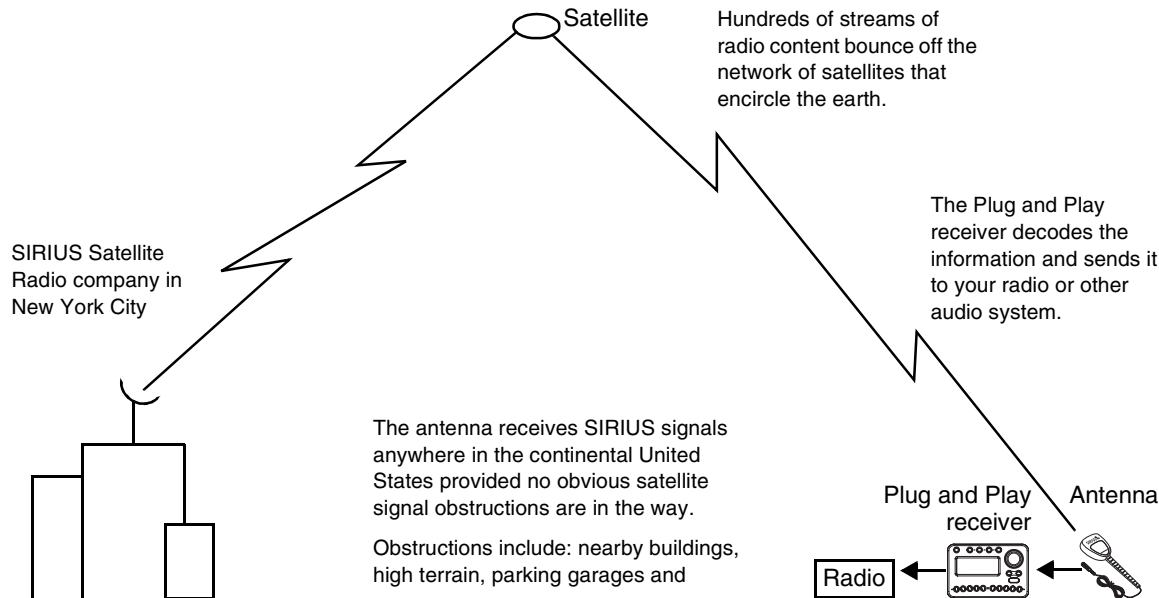
Remote control unit

Also Includes AAA batteries for the remote control

Additional components

In addition to the Plug and Play receiver, you will need a kit for your home or your vehicle (or both):

- Home kit part number: SIRHM
- Vehicle kit part number: SIRCR

How satellite radio works

Preparing to use the Plug and Play receiver

See the separate installation guide for how to install the home or vehicle kit.

Finding a location for the Plug and Play receiver at home

Install the antenna and Plug and Play receiver near your stereo receiving equipment.

Finding a location for the Plug and Play receiver in a vehicle

Mount the Plug and Play receiver in an accessible location, usually the dashboard. Make sure:

- No component blocks the driver's view of the road and rear-view mirrors.
- The driver can easily reach the receiver.
- The receiver is directly in the line-of-sight of the remote control.

Install the Antenna

Mount the antenna per the instruction guide that comes with the vehicle or home kit.

Turn the power on

1. Plug in the power adapter.
The power icon glows red.
2. Press the power button.
3. The SIRIUS logo appears for three seconds followed by the SIRIUS preview stream.

If you're using the Plug and Play receiver for the first time, the unit displays "Updating Channels."

The default display appears.



Default display

For a description of this screen, see “How to read the default display” on page 10.

Make a note of your identification number

You may need this number in the future.

1. Press MENU.

The unit displays the Menu Options page with the SIRIUS ID option highlighted.

2. Press the encoder knob.

The 12-digit SIRIUS ID number appears.

3. Write this number here.

--	--	--	--	--	--	--	--	--	--	--	--

Activate the radio service

- Visit <http://www.siriusradio.com> and click JOIN, then follow the on-screen instructions.

OR

- Call SIRIUS at 1-866-845-7474.

A friendly Customer Care representative will activate your service. A subscription fee is involved.

Note

Make sure to have your identification number accessible when calling Sirius.

Plug and Play receiver controls (front panel)

MEMO (memory) lets you store up to 20 artist or song title combinations.

The S-SEEK function searches the current incoming signal for an artist or song match

Press BAND momentarily to switch among bands A, B and C. Each band contains 10 preset stream settings.

Press MENU to access Plug and Play receiver options.

Press DISP (display) to choose one of several ways of presenting the stream name, artist and song title.

Turn the Encoder knob clockwise to highlight the next item. Turn it counterclockwise to highlight the previous item.

The power button turns the power on and off. The red LED indicates power is applied to the receiver.

Stream and option names appear in the liquid crystal display (LCD).

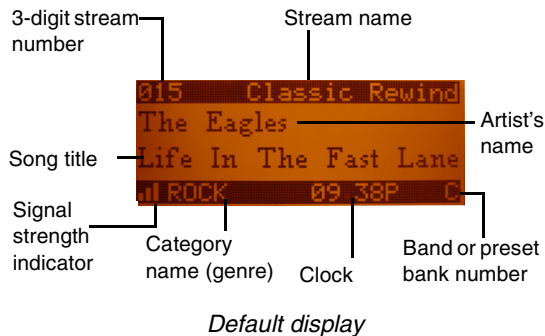
Use the keypad buttons to directly enter a stream number.

The infrared sensor receives commands from the remote control.

The Category UP and DOWN buttons advance through stream groups based on content category.



How to read the default display



2. Basic Operations

Tuning to a stream (channel)

The Encoder knob enables you to locate and select the stream by turning it clockwise or counter clockwise.

Definition

A stream is a source of satellite radio content. A stream is also referred to as a channel.

Direct Tuning by stream

To select a specific stream from the default display:

1. Press the Encoder knob.

2. Enter the stream number using the keypad buttons. The stream automatically begins to play.

Tuning by category

1. To select a stream category, press the Category UP or DOWN buttons.

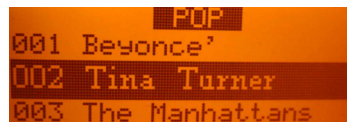


Category list

2. To scroll up or down through the streams within the current category, turn the Encoder knob.

OR

To list the currently-playing artist, press DISP (display).



Artist list

OR

To display the currently-playing song title, press DISP twice.

3. Press the Encoder knob to select the stream.

The stream begins playing and the LCD returns to the default display.

Presetting favorite streams

The Plug and Play receiver provides three bands (A, B, and C) you can use to assign a number to a favorite stream. Each band maintains a list of 10 favorite streams.

From the default display:

1. Press BAND momentarily to select A, B, or C.

The display in the lower right hand side changes to the corresponding preset band.

2. Locate the stream you want to assign to a preset. See "Tuning to a stream (channel)" on page 10.
3. With the stream playing, press and hold any of the numbered keypad buttons for one second.

The stream number is now programmed to the numbered preset button you selected.

Note

*You can store 10 streams per band.
That's a total of 30 streams.*

Tuning by preset number

1. Press BAND to select A, B, or C.

Momentarily press the numbered keypad button for the preset stream.

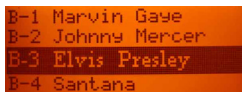
Tuning by Preset Tune Mode

From the default display:

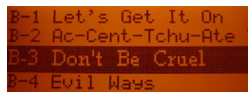
1. Press and hold BAND.
2. Press and hold DISP for two seconds.

The LCD changes to a four-line menu with the preset numbers (for example A-1) followed by the stream name.

Press DISP again to display the presets by artist, and again to display them by song title.



A four-line LCD display with an orange background. The text is in a monospaced font. The lines read: 'B-1 Marvin Gaye', 'B-2 Johnny Mercer', 'B-3 Elvis Presley', and 'B-4 Santana'. The third line, 'B-3 Elvis Presley', is highlighted with a darker orange background.



A four-line LCD display with an orange background. The text is in a monospaced font. The lines read: 'B-1 Let's Get It On', 'B-2 Ac-Cent-Tchu-Ate', 'B-3 Don't Be Cruel', and 'B-4 Evil Ways'. The third line, 'B-3 Don't Be Cruel', is highlighted with a darker orange background.

Preset list by artist and song title

3. Rotate the Encoder knob to move through the list.
4. Press the Encoder knob to play a preset stream.

Displaying the current artist and title

Press DISP to alternate among two display options:

- Large artist's name and song title in a single line of scrolling text

Large is useful when viewing the display at a distance, but may cause the screen to scroll if the name or title is too long to fit the screen. (This is the default.)

- Small artist's name and song title that occupies two lines of text.

Checking what's currently playing elsewhere

You can view a list of artists and song titles that are currently playing on other streams without changing the current stream.

From the default display:

1. Press DISP (display).
The unit displays the default screen.
2. Press and hold DISP.
The unit displays a list of all available streams.
3. Press DISP again to display the names of all currently-available artists.
4. Press DISP a third time to display a list of all currently-playing song titles.

5. Rotate the Encoder knob to move through the list.
6. Press the Encoder knob to play the preset stream.

Saving information about favorite songs

You may store a list of up to 20 favorite artist and song title combinations. The unit can then search the incoming SIRIUS signal and alert you when a favorite song is playing.

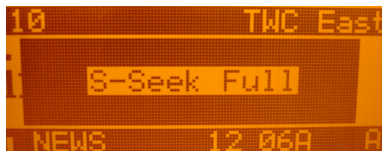
Storing favorite information

From the default display momentarily press MEMO (memory).

The receiver stores the current program information in its memory and displays a pop-up screen that shows how many of the 20 memory slots are used and how many are empty.

Replacing information

If the unit's memory is full, it displays the following message for one second:



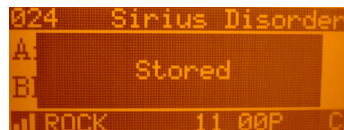
Memory full alert

Then it gives you the option to replace a song in the list with the current one you're listening to.

1. Use the Encoder knob to choose Replace or Cancel.
2. If you chose to replace, use the Encoder knob to highlight the song information you wish to replace.

3. Press the Encoder knob to remove the stored information and replace it with the information for the song you're currently listening to.

A pop-up message indicates the new information is stored.



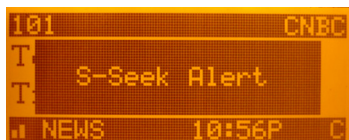
Stored message

This message is followed by the pop-up that indicates how many memory slots are used and how many are empty.

Finding favorites

When you turn the Plug and Play receiver on, it automatically searches the incoming SIRIUS signal to see if any of your favorite songs are playing.

If it finds one or more songs, the following message appears for two seconds.



Favorite songs alert

Then the list of favorites that are currently playing appears.

Use the Encoder knob to highlight a song and press the knob to listen to it.

Viewing favorite information

Press and hold MEMO for three seconds.

The unit displays the stored information, one item at a time on the LCD. Rotate the Encoder knob to page through all 20 items.

Turning off automatic search at power on

1. With the stored favorite displaying in the LCD, momentarily press the Encoder knob.
The unit displays two option settings.
2. Turn the Encoder knob to highlight S-Seek and press the Encoder knob.

The unit displays the S-Seek settings: ON (default) and OFF.

3. Turn the Encoder knob to highlight OFF and press the Encoder knob.

Deleting favorite information

1. With the stored favorite displaying in the LCD, momentarily press the Encoder knob.

The unit displays two settings:

2. Turn the Encoder knob to highlight Delete and press the Encoder knob.

The receiver asks you to confirm the deletion.
The default selection is NO.

3. Turn the Encoder knob to highlight YES and press the Encoder knob to complete the deletion.

Exiting viewing favorite information

To exit viewing favorite information, press and hold MEMO for another three seconds.

Parent control features

You may restrict young people from accessing specific streams in two ways:

- Skip specific streams when tuning.

Use this feature to completely omit specific streams. For instructions, see “Add or Skip” on page 21.

- Require the listener to enter a four-digit lock code to play specific streams.

Use this feature to allow only those who know the four-digit activation code to listen to the stream. For instructions, see “Lock Options” on page 21.

Turning the unit off

Press the power button momentarily.

The Clarion logo appears for two seconds and the unit turns off.

3. Setting Options

There are a variety of ways to customize how your Clarion Plug and Play receiver works.

Accessing options

1. Press MENU.
The Menu Options list appears.
2. Using the Encoder knob, highlight the option you wish to change.
3. Press the Encoder knob to select the highlighted option.
4. Using the Encoder knob, highlight an option setting.
5. Press the Encoder knob to select the highlighted setting.

If, while on the Menu Options, you don't actually set any option for 10 seconds, the menu closes.

To exit Menu Options, press Menu.

Quick reference to options

Sirius ID	displays your SIRIUS ID
Display Settings	controls how text appears on the LCD.
FM Transmitter Options	controls the use of frequency transmission.
Add or Skip	configures the unit to omit specific streams.
Lock Options	requires the entry of a 4-digit code to play the selected stream.
Audio Level Options	sets the audio gain output.
Antenna Aiming	helps you position the antenna at home for best reception.

- Memory Options stores favorites and turns automatic seeking on and off.
- Time Based Features sets the clock and alarms.
- Factory Default restores factory default settings.

Sirius ID

Displays your unique 12-digit SIRIUS ID number. You can't change this number.



Sample SIRIUS ID

Display settings

Contrast and Dimming controls: adjust the LCD display. When you select either Contrast or Dimming, a 10-segment horizontal bar graph with a minus (-) at the left end and a plus (+) at the right end indicates the current setting.

Rotate the Encoder knob to adjust the bar graph and press the Encoder knob when finished.

Font type: defines the typeface to use for displaying text in the LCD.

Rotate the Encoder knob to highlight the font type and press the knob to select it.

Press MENU to return to Display Settings.

Color options: defines the color of the key LED and LCD backlight. Your choices for both are: Amber or Yellow-green.

Rotate the Encoder knob to highlight the option or setting and press the knob to select it.

Press MENU to return to Color options menu.

FM Transmitter

This option controls whether frequency modulation (FM) is used, and sets the frequency.

You would use the FM transmitter if, when you installed the vehicle kit you chose a wireless connection between the Plug and Play receiver and the radio.

Switching FM On and Off

ON (the default) enables the unit to receive signals from an FM transmitter

OFF disables FM reception

Note

Turn this option off if you are using the low level audio outputs in your particular application.

Setting the frequency

The available frequencies are: 88.1MHz, 88.3MHz, 88.5MHz, 88.7MHz, 88.9MHz, 89.1MHz, 89.3MHz, 89.5MHz, 89.7MHz, 89.9MHz, 91.1MHz, and 91.3MHz. You may need to change the frequency if the default frequency in your area is used by a radio station.

When you select this option, the unit displays the frequency settings with the highlight bar on the currently selected frequency (default is 88.9MHz).

Use the Encoder knob to select a new frequency, or press MENU to leave the setting unchanged.

Add or Skip

With hundreds of streams available, you may wish to limit the accessible list to only those you like.

Skipping a stream

When you select this option, the unit displays a stream list with the current stream highlighted.

1. Rotate the Encoder knob to highlight the stream to skip.
2. Press the Encoder knob to omit the stream.

The unit displays “SKIP” next to the stream number. The unit will not access this stream during regular tuning.

Accessing skipped streams

There are only two ways to access skipped streams:

- Enter the stream number directly. See “Direct Tuning by stream” on page 10.
- Use the Add option to restore the stream.

Restoring a skipped stream

When you select this option:

1. Rotate the Encoder knob to highlight the skipped stream.
2. Press the Encoder knob to restore the stream.
“SKIP” disappears next to the stream number.

Lock Options

Locking a stream requires the entry of the four-digit lock code to play the stream. You can use this feature to prevent unauthorized people from accessing specific streams.

Locking a stream

When you select this option, the unit prompts you to define a four-digit lock code.

1. If this is the first time you've used this feature, enter the default code "0000."

If you've used this feature before, enter your unique four-digit code. To change this code, see "Changing the lock code" on page 23.

The unit displays a stream list with the current stream highlighted.

2. Rotate the Encoder knob to highlight the stream to lock.
3. Press the Encoder knob to lock the stream.

The unit displays "LOCK" next to the stream number. The unit will not access this stream during regular tuning.

Accessing locked streams

A listener may access this stream by entering the direct stream number followed by the four-digit lock code. The audio begins to play.

The stream returns to the locked status if the listener changes streams or turns the unit off (for example, turns the vehicle off).

Restoring a locked stream

When you select this option:

1. Enter the four-digit code.

The unit displays a stream list with the current stream highlighted.

2. Rotate the Encoder knob to highlight the locked stream.
3. Press the Encoder knob to restore the stream.
"LOCK" disappears next to the stream number.

Changing the lock code

1. Press MENU.
2. Rotate the Encoder knob to highlight Lock Options.
3. Press the Encoder knob to select Lock Options.
4. Rotate the knob to highlight Edit Code.
5. Press the knob again.
6. Enter the default code "0000" (or the lock code you previously defined).

The New Code prompt appears.

7. Enter the new four-digit code using the keypad buttons.

The unit prompts you to confirm the code.

8. Enter the new four-digit code again.

You have changed the lock code.

Audio Level Options

This option adjusts the audio level indication and audio gain (the increased level of a sound that results from amplifying the input signal).

When you select this option, a 10-segment horizontal bar graph with a minus (-) at the left end and a plus (+) at the right end indicates the current setting.

Rotate the Encoder knob to adjust the bar graph and press the Encoder knob when finished.

Antenna Aiming (Home Installation)

To receive a good signal requires a direct line of sight between you and the satellite. If your reception is poor, moving the antenna may help. This option confirms that the antenna is in the best position to receive the satellite signal.

1. Press MENU.

2. Rotate the Encoder knob to highlight Antenna Aiming.

The unit displays two 10-segment horizontal bar graphs with a minus (-) to the left and a plus (+) to the right.

The SAT graph displays the satellite signal strength. The TER graph shows the terrestrial signal strength.

Definition

In urban areas where structures may affect the line of sight satellite signal, terrestrial repeaters (TER) strengthen the signal. They may not be available in your geographical location.

Memory Options

This option lets you control the automatic memory search function and clear all memory slots.

Automatic Memory Search: turns automatic searching on and off. Use the Encoder knob to highlight ON or OFF and press the knob to make the selection.

Clear all Memory: clears all favorite artist and song title combinations you previously stored.

Press the Encoder knob. The unit prompts "Are you Sure?" Highlight YES or NO and press the Encoder knob.

For more information about storing favorites in memory, see "Saving information about favorite songs" on page 14.

Time Based Features

The SIRIUS signal maintains the current time and can trigger pre-programmed alarms.

Once you turn the power on and the unit receives the satellite signal, the unit automatically maintains the time unless you remove it from its docking base.

If the receiver loses the signal, it loses the time and will not trigger any pre-programmed alarms. To restore the time and alarms, turn the receiver on. It will update the time automatically from the satellite signal.

Clock

This option sets the time on the clock that appears on the default display based on your chosen format, the time zone, and daylight savings time.

Format: determines the style of display: 12 Hour (default) or 24 Hour.

Time Zone: selects the time zone based on Greenwich Mean Time (GMT).

DST (Daylight Savings Time): indicates whether daylight savings time is observed in your current location or not. Your settings are: DST Observed or DST Not Observed.

Alarm Clock

This option turns the Plug and Play receiver on at a specific time. Press any button on the front panel.

When the unit turns on it plays the stream you selected last.

Set Alarm: provides the settings: Alarm On or Alarm Off (default).

When the alarm is on, the time appears on the default display in reverse image.

Alarm time: sets the alarm time. Press the Category buttons to increase or decrease

the hours. AM and PM switch automatically.

Turn the Encoder knob to set the minutes. Clockwise increases the minutes and counterclockwise decreases them.

Press the Encoder knob to accept the selected time (or press Menu to cancel).

Program Alert

This feature allows you to program the unit to switch to a specific stream at a specific time. The top line of the display shows: Set Program Alert.

Program Time/Day: selects the time and the day. The default is 12:00 PM Monday.

With Time highlighted, press the Category buttons to increase or decrease the hours. AM and PM switch automatically.

Turn the Encoder knob to set the minutes. Clockwise increases the minutes and counterclockwise decreases them.

Press the Encoder knob to accept the selected time.

With Day highlighted, the unit displays the days of the week (default: Monday). Use the Encoder knob to select the day.

Stream: displays the list of streams. Use the Encoder knob to select the stream to associate with the selected time.

Program Alert On/Off: turns the Program Alert function on and off. Your settings are: Program Alert On or Program Alert Off.

Auto Shutdown

You can configure the Plug and Play receiver to automatically shut off after one hour. This is especially useful if the Plug and Play receiver is running on battery power, such as in your car.

After running for 59 minutes of inactivity, the unit displays: Cancel Auto Shutdown. If you're near the unit and wish it to continue, press the Encoder knob to cancel shutdown.

Your settings are: Enabled, Disabled (default). Rotate the Encoder knob to highlight the setting and press the knob to select the highlighted setting.

Sleep mode

This option lets you configure the Plug and Play receiver to shut down after a number of minutes.

Sleep Off: is the factory default.

15, 30, 45 and 60 minute: intervals are your settings.

Rotate the Encoder knob to highlight a setting and press the knob to select it.

Factory Default

This option restores all configuration options to their factory defaults. The settings are: YES and NO.

The following are the factory defaults:

- All memory presets revert to empty
- Auto Dimming: ON
- Display Contrast: 50%
- FM Transmitter: ON
- FM Frequency: 88.9 MHz
- Audio Output Level: 50%
- Access to all skipped streams (locked streams remain locked)
- Memory Search: ON
- Memory Locations: erased
- Clock Format: 12 Hour

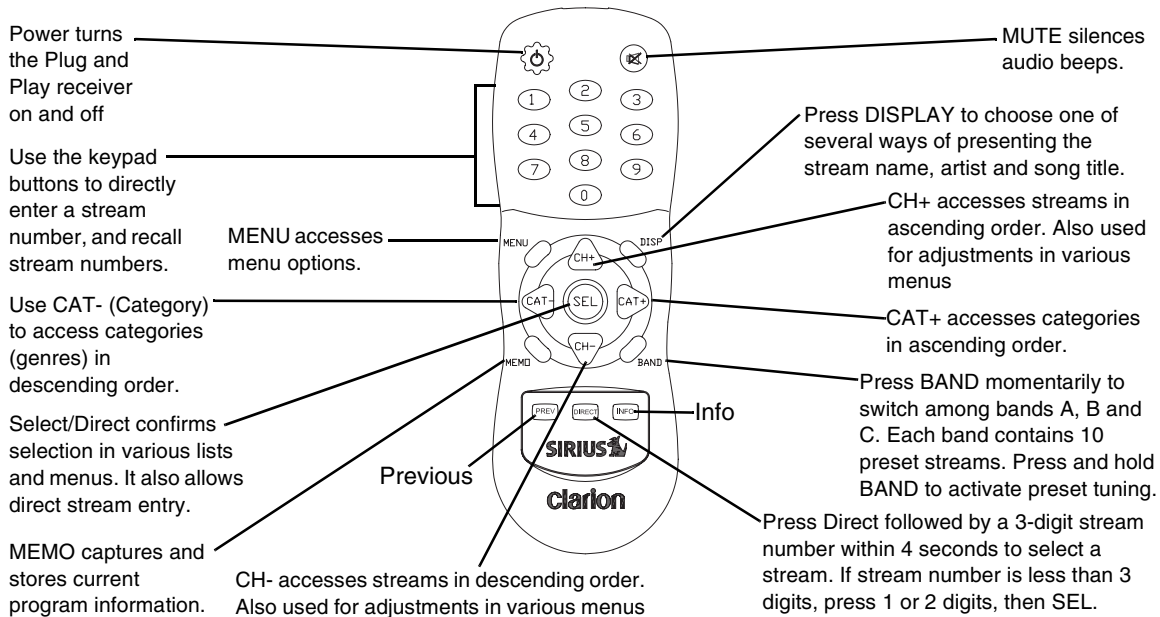
- Time Zone: Eastern
- Daylight Savings Time: Observed
- Alarm: OFF
- Alarm Time: 12.00pm
- Program Alert Time: 12.00pm
- Program Alert Day: Monday
- Program Alert Stream: current stream
- Auto Shutdown: OFF
- Sleep Mode: OFF

4. Using the Remote

The wireless remote control supplied with the Plug and Play receiver operates most Plug and Play receiver features from a remote location. The buttons on the remote control function the same way their equivalents do on the Plug and Play receiver.

For optimal operation, always aim the remote control toward the remote sensor on the Plug and Play receiver's front panel. To locate this sensor, see "Plug and Play receiver controls (front panel)" on page 9.

Remote control features



5. Troubleshooting

Description	Probable Cause	Remedy
The Plug and Play receiver does not turn on.	The power cable may not be properly connected. The fuse may be blown.	Check power cable and fuse.
The LCD displays, "Check antenna".	The satellite antenna is not connected.	Check the antenna connection to the Plug and Play receiver.
	The antenna or its cable is faulty.	Contact the system installer or vendor.
Reception is marred by audio static or loss of clarity.	The FM frequency contains static.	Switch to another FM frequency.
	The vehicle's antenna is not connected to the radio.	Check the vehicle antenna cable.
There's no signal on the Plug and Play receiver's display.	Check for obstacles over or around the antenna.	Change your location to eliminate nearby obstacles, such as bridges and tall buildings.

Description	Probable Cause	Remedy
You hear no sound.	The audio cables are not connected.	Check the cables at the Plug and Play receiver and the radio.
	You've selected an incorrect FM frequency.	Select another FM modulator frequency.

6. Specifications

Audio Output: (100-250 ohms):	650mV RMS Maximum
Fuse:	3A Slow Blow
Power Supply:	10-16V, Negative Ground, DC
Dimensions (W x H x D):	110mm x 73mm x 28mm (with knob)

NOTES

1. Limited warranty information

For USA and Canada only

This product is warranted against all defects in material workmanship for a period of one year from the date of original purchase. Clarion ProAudio products, except for speakers, are covered by a two year limited warranty when installed by an authorized Clarion dealer. The conditions of this limited warranty and the extent of responsibility of Clarion Corporation of America ("Clarion") under this limited warranty are as follows:

1. PROOF OF DATE OF PURCHASE WILL BE REQUIRED FOR WARRANTY SERVICE OF THIS PRODUCT. IN THE CASE OF THE TWO (2) YEAR LIMITED WARRANTY FOR CLARION PROAUDIO PRODUCT, PROOF OF INSTALLATION BY AN AUTHORIZED DEALER IS REQUIRED. INFORMATION ABOUT CLARION AUTHORIZED WARRANTY SERVICE CENTERS MAY BE OBTAINED BY CONTACTING CLARION AT THE ADDRESS BELOW.
2. This limited warranty will become void if service performed by anyone other than an approved Clarion Warranty Service Center results in damage to the product.
3. This limited warranty does not apply to any product which has been subject to misuse, neglect or accident, or which has had the serial number altered, defaced or removed, or which has been connected, installed, adjusted or repaired, other than in accordance with the instructions furnished by Clarion.
4. This limited warranty does not cover car static or other electrical interferences, tape head or laser pick-up cleaning or adjustments, or labor costs for the removal or reinstallation of the unit for repair.
5. The sole responsibility of Clarion under this limited warranty shall be limited to the repair of the product or replacement of the product, at the sole discretion of Clarion.

6. Product must be shipped in its original carton or equivalent carton, fully insured, with shipping charges prepaid. Clarion will not assume any responsibility for any loss or damage incurred in shipping.
7. ALL IMPLIED WARRANTIES EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW SHALL HAVE NO GREATER DURATION THAN THE WARRANTY PERIOD SET FORTH ABOVE. UNDER NO CIRCUMSTANCES SHALL CLARION BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. BECAUSE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.
8. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
9. Should you have any difficulties with the performance of this product during the warranty period, please call or visit our web site (www.clarion.com) for a listing of Authorized Warranty Service Centers in your area. You may also contact Clarion at the address listed below.

In USA:
Clarion Corporation of America
Attn: Customer Service Manager
661 W. Redondo Beach Blvd.
Gardena, CA. 90247-4201
1-800-GO-CLARION
(310)327-9100

In Canada:
Clarion Canada, Inc.
Warranty Service Center
2239 Winston Park Drive
Oakville, Ontario L6H 5R1
(905)829-4600

Clarion Corporation of America
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www.clarion.com

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