

ROTEL

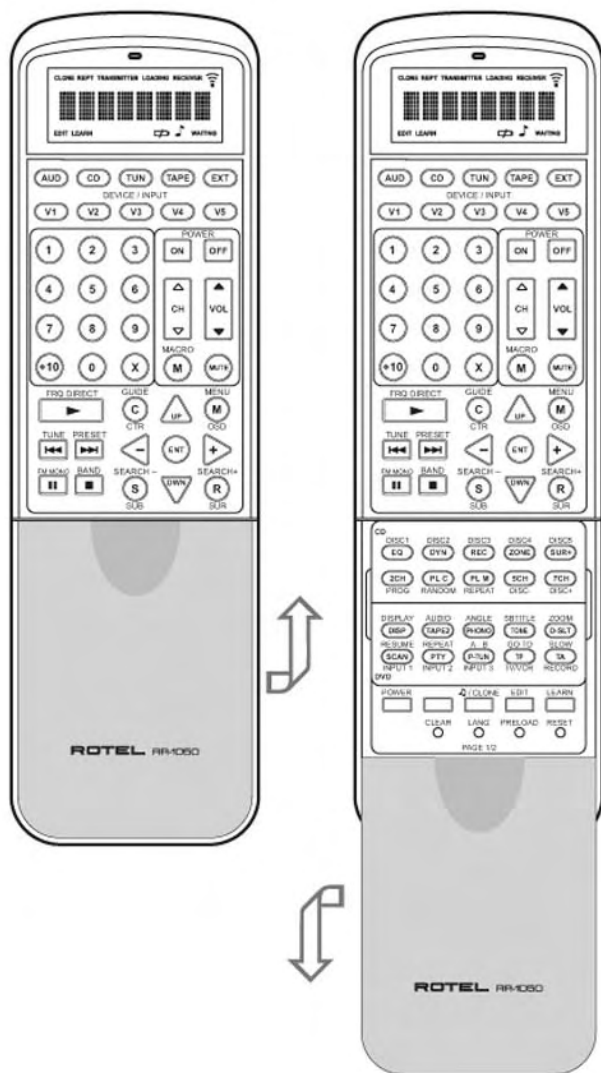
Owner's Manual



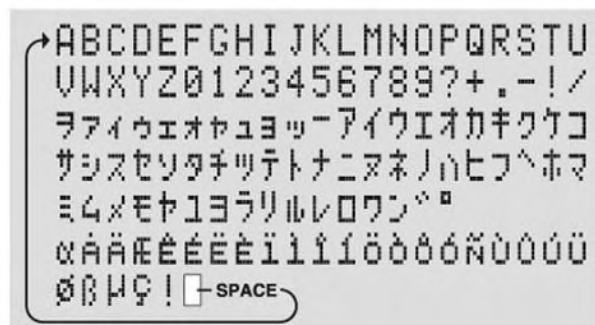
RR-1050

Universal Learning Remote Control

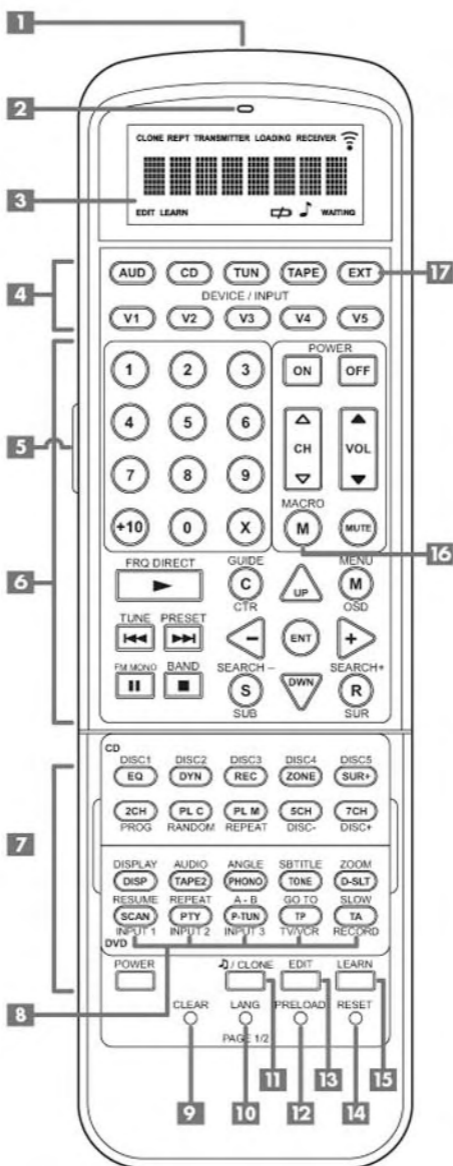
Sliding Cover



Character Map



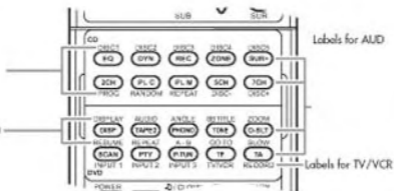
Button Layout



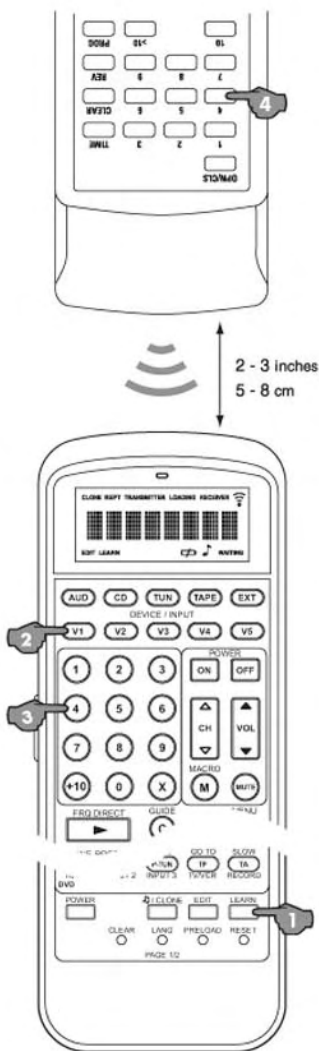
Label Sets

Labels for CD

Labels for DVD (V1)



Learning Steps



NOTE: These four steps are used to program command functions. See the *Programming* section of this manual for information on how to program input source selection.

Contents

Sliding Cover	2
Character Map	2
Button Layout	3
Label Sets	3
Learning Steps	4
Introduction	6
Key Features	6
Sensible Precautions	6
Battery Installation	6
Navigating the RR-1050	6
IR Emitter/Sensor 1	7
LCD Display 3	7
Light Button 5 and Light Sensor 2	7
Sliding Cover	7
Device/Input Buttons 4	7
EXT Button 17	8
Basic Command Buttons 6	8
Secondary Command Buttons 7	9
Multi-Step Buttons 8	9
Special Buttons 11 13 15	9
Configuration Buttons 9 10 12 14	9
Operating the RR-1050	9
Sending IR Commands	9
Sending Macro Commands 16	10
Multi-Step Button Operation 8	10
LIGHT Button 5	10
KEY TONE Button 11	10
LOW BATTERY Indicator	11
Programming	11
Learning Mode 15	11
Multi-Step COMMAND Button Learning 8	12
Macro Programming 16	13
Clearing Stored Commands 9	14
Preload Function 12	14
Clone Function 11	14
Reset Button 14	15
Custom Labels	16
Multi-language Mode 10	16
EDIT Button 13	16

Introduction

Thank you for purchasing the RR-1050 Universal Learning Remote Control. The RR-1050 can replace up to nine infrared remote controls, operating audio or video components from Rotel or other manufacturers.

Key Features

- Simple programming using your existing remote controls to teach the RR-1050 their commands.
- Pre-programmed to operate a variety of Rotel audio/video components. Any button can be reprogrammed and “learn” the control signals from any other remote.
- LCD DISPLAY provides visual feedback during programming and operation, including status indicators, and customizable labels for every command button.
- Backlighting for ease of use in dark rooms along with optional beep whenever a button is pressed.
- Twenty MACRO buttons send a sequence of up to 20 commands with the press of two buttons.

Sensible Precautions

- The RR-1050 is rugged, but it is not indestructible. So please don't drop it!
- Do not expose the RR-1050 to moisture. To clean the RR-1050, use a soft, lint-free damp cloth. Avoid harsh cleaning solvents.
- Don't try to take the RR-1050 apart. Disassembly will void the warranty.

Battery Installation

Remove the RR-1050 and the 4 AAA batteries from the box. Turn the RR-1050 over and lift the cover off the battery compartment by compressing the release tab and lifting up. Place the four AAA batteries inside (follow the polarity illustrations on the bottom of the compartment) and replace the cover.

Navigating the RR-1050

The RR-1050 replaces up to nine remote controls. Teaching the RR-1050 to operate your components takes just minutes and need only be done once. See the LEARNING section of this manual for easy to follow instructions.

Once the programming is complete, select a component with the press of a button to turn the RR-1050 into the remote control for your CD player, TV, or VCR.

Here is the layout of the RR-1050:

IR Emitter/Sensor **1**

The IR Emitter/Sensor is located in the top edge of the RR-1050. It sends the IR commands and must be pointed at the desired component. It also receives IR codes from your other remote controls during the LEARNING process.

LCD Display **3**

The LCD DISPLAY provides information including the device selected and the input you have selected. The eight character alphanumeric display also provides simple prompts when programming the RR-1050. These indicators and prompts are noted in the appropriate sections of this manual.

In addition, the display shows a customizable label when a button is pressed.

Light Button **5** and Light Sensor **2**

The RR-1050 provides automatic backlighting. In a dim room, the LIGHT SENSOR automatically turns on backlighting for 6 seconds whenever a button is pressed.

In a dim room, you can manually turn on the lighting by pressing the LIGHT button on the side of the remote. The lights stay on for 6 seconds and for an additional 6 seconds each time another button is pressed.

NOTE: *In a bright room, the backlighting function is disabled to save battery power.*

Sliding Cover

A sliding cover conceals the buttons at the bottom of the RR-1050. These buttons provide extra command functions used in programming and configuring the unit. Leave the sliding cover in the UP position to simplify the RR-1050 for general use. Slide the cover DOWN to access the additional buttons.

Device/Input Buttons **4**

Nine buttons (AUD, CD, TUN, TAPE and V1 to V5) at the top of the RR-1050 are used to select the device or component you will control **and** to select the input source for the device you are operating. How long the button is pressed determines whether a device is selected or an input source is selected. For example, give the AUD button a short press - less than one second - and the RR-1050 becomes the remote control for your Rotel audio/video receivers or surround sound processor. Then if you give the CD button a long press - more than one second - the CD input for the Surround Sound processor is selected and the CD player becomes the selected device.

The AUD button is pre-programmed to operate Rotel audio/video receivers and surround sound processors. The V1 button is pre-programmed to operate Rotel DVD players. All other buttons are unprogrammed and can be used to learn the control codes of other remote controls. The control codes of the AUD and V1 buttons can be reprogrammed for other control codes. The original control codes for these buttons can be restored. See the Preload Function section of this manual.

NOTE: *The DEVICE/INPUT buttons are also used in programming the RR-1050 and are also available for storing and sending MACROS (automatic sequences of up to 20 learned commands).*

EXT Button 17

The EXT button is a special input selection button for Rotel audio/video receivers or surround sound processors. It is used to select the six channel analog inputs when you are playing SACD or DVD-A discs. This bypasses the digital/analog converters in the receiver or surround sound processor. After the EXT button is pressed the V1 device is selected for operation.

Basic Command Buttons 6

This large group of buttons duplicates the functions on the remote controls for your audio/video components. Each button can store commands for nine different components, selected by pressing one of the DEVICE/INPUT buttons (AUD, CD, TUN, TAPE and V1-V5).

When using the RR-1050, first press the DEVICE/INPUT button for the desired component. Then, press COMMAND buttons to send the commands learned for that component.

At the top right of this group are basic command buttons such as Power On and Off, Volume, Channel Selection and Muting. The Macro button is also in this group. See the "Macro Programming" section of this manual for more information.

At the top left of this group are twelve numeric keypad buttons that are used to make direct track selections on a CD or DVD player or direct channel selections on a TV, cable decoder, satellite receiver, etc.

At the bottom right are nine buttons that duplicate the menu functions found on a cable or satellite TV receiver or audio/video components with an on-screen menu system. The five round buttons are used for extra functions, such as Last Channel, Viewing Guide, etc.

At the bottom left are five rectangular buttons that duplicate the basic transport control functions (Play, Fast Forward, Pause, etc.) of a CD player, DVD player or video tape recorder.

Secondary Command Buttons 7

Under the sliding cover is a group of oval buttons which provide secondary command functions. The function of these buttons varies depending on the device selected with the DEVICE/INPUT buttons. See the "Label Sets" illustration.

Multi-Step Buttons 8

In addition to normal functions, the five buttons labeled SCAN, PTY, P-TUN, TP and TA provide a special option – learning up to three commands on a single button. The first command is sent when the button is pressed once, the second command is sent the next time the button is pressed, and the third command is sent the third time the button is pressed.

Special Buttons 11 13 15

Three rectangular buttons behind the sliding cover are used for programming the RR-1050 and for other special features such as the KEY TONE feature.

Configuration Buttons 9 10 12 14

Four recessed buttons behind the sliding cover are used in configuring the unit. These buttons are recessed to prevent pressing them accidentally. Use the tip of a ballpoint pen to press them.

Operating the RR-1050

This section of the manual explains the basic operation of the RR-1050 and most of its standard features.

NOTE: *The AUD DEVICE/INPUT button of the RR-1050 is pre-programmed with control codes for Rotel audio/video receivers or surround sound processors. The V1 button is pre-programmed to operate Rotel DVD players. The other DEVICE/INPUT buttons (CD, TUN, TAPE and V2 - V5) are unprogrammed. You must use the LEARNING function to program control codes for these DEVICE/INPUT buttons.*

Sending IR Commands

Instead of putting down one remote and picking up another, you simply press a button on the RR-1050 to convert it from the remote control for your CD player to the remote control for your TV set. Here's how:

1. Press a DEVICE/INPUT button 4 to activate the command set for the desired component. For example, press the AUD button for a Rotel audio/video receiver or surround sound processor. The label for your selection appears in the display. The selected command set remains active until you press a different DEVICE button.

2. Press any of the COMMAND **6** **7** buttons to send an IR command to the component you have selected. The label for the COMMAND button appears in the display. If the label "EMPTY" appears in the display, the button has no learned command for that device.
3. To select an input source for the device you have selected press and hold a DEVICE/INPUT button **4** for more than one second. That input source device becomes the selected device. The display shows the label for the input source selected.

NOTE: The default labels that appear in the display match the button labels. You can customize the labels for every DEVICE and COMMAND button.

Remember that the COMMAND buttons duplicate controls on many different types of audio/video components. Their function depends on the type of component selected. Make sure that you have pressed the correct DEVICE button and use the button labels as a guide.

Sending Macro Commands **16**

Twenty of the buttons on the RR-1050 (the nine device buttons, the EXT button and the number buttons 0 - 9) can store multiple command macro sequences. For example, a sequence that turns on the TV set, selects channel 5, turns on the surround processor, and selects the TV input. A macro sequence is sent by pressing the MACRO button followed by the button where the macro is stored. See the Macro Programming section for more information.



Multi-Step Button Operation **8**

The five buttons labelled SCAN, PTY, P-TUN, TA, TP provide a special option – the ability to program up to three different commands. The first command is sent when the button is pressed once, the second command is sent the next time the button is pressed, and the third command is sent the third time the button is pressed.


LIGHT Button **5**

In a dark room, the RR-1050 automatically activates its backlighting feature for 6 seconds when a button is pressed. Press the LIGHT button to manually turn on the backlighting in a dim room. This button is disabled in a bright room.

KEY TONE Button **11**

The RR-1050 can be configured to beep whenever a button is pressed. When this feature is activated, the indicator  appears in the display. Press the  /CLONE button to toggle this feature on or off.

LOW BATTERY Indicator

The  indicator appears in the display when the batteries are weak and need to be replaced:

- **When the indicator appears solidly in the display**, the backlighting feature is disabled to preserve battery power.
- **When the indicator blinks**, battery power is extremely low and the unit will lock all functions until fresh batteries are installed.

All programming is saved while you are changing the batteries.

Programming





The RR-1050 replaces up to nine remote controls, one for each of the DEVICE buttons. The AUD DEVICE/INPUT button of the RR-1050 is pre-programmed with control codes for Rotel audio/video receivers or surround sound processors. The V1 button is pre-programmed to operate Rotel DVD players. The other DEVICE/INPUT buttons (CD, TUN, TAPE and V2 - V5) are unprogrammed. **Any button in any device set can be reprogrammed with new IR signals.** Additional programming options such as special macro programming, clearing memorized commands, cloning commands from one RR-1050 to another and resetting the RR-1050 are described later in this section.

Learning Mode

To teach the RR-1050 the commands from one of your other remote controls, place the two remote controls end to end as shown in the illustration at the front of this manual. The IR signals sent by the other remote must be aimed at the IR emitter/sensor of the RR-1050.

There are two different sets of steps used when programming the RR-1050. One set is used to program the COMMAND buttons. A shorter set of steps is used to program DEVICE/INPUT buttons to select an input source for the device being operated.

To program a COMMAND button:

1. Press the LEARN button  on the RR-1050. The LEARN indicator blinks in the display.
2. Press the DEVICE/INPUT button  of the RR-1050 to select the device (CD, V2, etc.) whose command set you want to program. The name of that device appears in the display.
3. Press the COMMAND button   that you want to program (4, CH UP/DOWN, etc.). The label for that COMMAND button appears in the display and the LEARN indicator stops blinking.

4. Press and hold the corresponding button on the original remote until the display shows "OK!" indicating that the command has been learned.

The LEARN indicator resumes blinking once the command has been learned. Repeat Steps 3 and 4 for each COMMAND button you wish to program in that command set – for example, for each transport and track selection function on your CD player.

To program a DEVICE/INPUT button or the EXT button to select an input for the device being operated:

1. Press the LEARN button **15** on the RR-1050. The LEARN indicator blinks in the display.
2. Press and hold the DEVICE/INPUT button you want to program until the LEARN indicator stops blinking. The label for that device appears in the display.
3. Press and hold the corresponding input selection button on the original remote until the display shows "OK!" indicating that the command has been learned.

Repeat Steps 2 and 3 for each DEVICE/INPUT button you wish to program for input source selection.

NOTE: *The AUD INPUT/DEVICE button cannot be programmed for input source selection.*

While programming the RR-1050:

If the display shows an ERROR message, the command was not successfully learned. Try again.

If the display shows a NO DATA message, no signal was received from the original remote. Adjust the position of the two remote controls and try again.

The RR-1050 exits the LEARN mode following 15 seconds without pressing any buttons.

Multi-Step COMMAND Button Learning **8**

The five buttons labeled SCAN, PTY, P-TUN, TP, TA **8** provide a special option – the ability to learn up to three different commands on a single button. During operation, the first command is sent when the button is pressed once, the second command is sent the next time the button is pressed, and the third command is sent the third time the button is pressed.

To program a multistep button using the SCAN button as an example:

1. Follow the four steps under "To program a COMMAND button" in the previous section to program the first command for the SCAN button.
2. Press the SCAN button a second time. "S1-2" shows in the display. Press and hold the next button on the original remote until the "OK!" confirmation appears.
3. To learn a third command, press the SCAN button a third time. The display shows "S1-3" indicating that it is ready to learn the third command. Press and hold the next command button on the original remote until the "OK!" confirmation appears.

NOTE: To change the programming of any command for a multistep button, it is necessary to start over beginning with the first command.

Macro Programming 16

Twenty of the buttons on the RR-1050 (the nine device buttons, the EXT button and the number buttons 0 - 9) can store multiple command macro sequences – for example, a sequence that turns on the TV set, selects channel 5, turns on the surround processor, and selects the TV input. A macro sequence is sent by pressing the MACRO button followed by the button where the macro is stored.

To program a macro sequence, first make sure that all of the desired commands have already been learned by the RR-1050 – the macro feature simply records a sequence of individual RR-1050 button commands.

1. Press the LEARN button 15. The "LEARN" indicator appears in the display.
2. Press the MACRO button 16. The LCD displays "MACRO?" asking where to store the sequence.
3. Press one of the available macro buttons - the nine DEVICE/INPUT buttons, the EXT button, or the 0-9 numeric buttons. An "M" followed by the name of the button appears briefly in the display (e.g. "M.0").
4. "Step 1" appears in the display indicating that the unit is ready to learn the first step in the macro. Press the desired individual commands until the entire sequence has been performed. Each button press is confirmed in the display followed by a prompt for the next step.

NOTE: When using the DEVICE/INPUT buttons 4 to select the device you want to operate press the button for less than one second. To select an input for the device press and hold the button for more than one second.

5. To enter a time delay following a command, hold the button for the desired length of the time delay.
6. When the entire macro sequence has been entered, press the LEARN button to complete the process. A confirmation "MAR.OK" appears in the display.

The last device selected in the macro sequence remains the device the RR-1050 is set to operate. If you want a different device to be active after using the macro command, select that device as the last step in the macro.

Clearing Stored Commands 9

The CLEAR button erases learned commands from a single button, all of the commands under a particular DEVICE button, or a MACRO sequence.

1. Press the recessed CLEAR button with the point of a ball point pen. A "CLEAR?" prompt appears.
2. Press a COMMAND button to clear a single command. Press a DEVICE/INPUT button for less than one second to clear the device selection code. Press and hold a DEVICE/INPUT button to clear the input source selection code. Press the MACRO button and then the button where the macro is stored to erase a MACRO sequence. A confirmation "OK!" appears in the display.

NOTE: When a learned command is cleared from a DEVICE/INPUT button the factory original command code is restored.

The RR-1050 automatically leaves the CLEAR mode if no button is pressed for 15 seconds. Manually exit by pressing the CLEAR button again.

Preload Function 12


Press the recessed PRELOAD button with a ballpoint pen to restore the RR-1050 to its original factory programming. "LOADING" appears in the display while the codes are being restored, followed by a confirmation "OK!" when the process is complete.


NOTE: Pressing PRELOAD erases all learned commands for the AUD and V1 buttons. The factory programmed codes for Rotel receivers and surround sound processors and Rotel DVD players are restored. **Be sure this is what you want to do!** The learned commands for the other buttons are not erased.

Clone Function 11



The CLONE function transfers all programming, including learned commands and custom labels, from one RR-1050 to a second RR-1050. To transfer the programming, place two RR-1050 remote controls with their IR windows facing each other, then proceed as follows.


On the remote that will be receiving the data:

1. Press the EDIT button **13**. "EDIT?" appears in the display.
2. Press the /CLONE button **11**. A prompt "REC/TRX?" appears with either the "REC" or "TRX" flashing.
3. If necessary, press the – button until the "REC" is flashing, and press the ENT button to confirm. The RECEIVER indication and "WAITING" show in the DISPLAY, confirming that the unit is ready to receive data.

NOTE: Cancel the clone function by pressing the /CLONE button again, instead of the ENT button.

On the remote that will be sending the data:

1. Press the EDIT button **13**. "EDIT?" appears in the display.
2. Press the /CLONE button **11**. A prompt "REC/TRX?" appears with either the "REC" or "TRX" flashing.
3. If necessary, press the – button until the "TRX" is flashing and press the ENT button to confirm. The TRANSMITTER and  indicators along with the word "SENDING" appear in the display confirming that data is being sent. It takes 10 minutes to send all of the data.

NOTE: Cancel the clone function by pressing the /CLONE button again, instead of the ENT button.

While the data transfer is in progress, the LOADING indicator appears in the display of the receiving unit. At the completion of the data transfer, one of the following confirmation messages appears in the display of the receiving RR-1050:

- **If the data transfer is successful**, the "OK" prompt appears and the unit returns to normal mode.
- **If no data is received for 60 seconds in receive mode**, "NO DATA" appears in the LCD and the unit reverts to normal operating mode.
- **If corrupted data is received**, the CLONE REPT indicator appears advising you to repeat the transmitting procedure. The unit will remain in the CLONE REPT mode and cannot be used until it successfully receives the transmitted data.

NOTE: Do not attempt to use the CLONE function to transfer data from any remote other than another Rotel RR-1050.

Reset Button **14**

Should the RR-1050 stop functioning, press the RESET button with the tip of a ballpoint pen. All learned commands will be retained.

Custom Labels

Whenever you press a button on the RR-1050, its name appears in the display. By default, the labels match the printed labels for each button. You can change the label that appears when a button is pressed – to change the language or customize the labels to match your components.


There are two complete sets (“pages”) of labels stored in the RR-1050. You can switch between the two. We recommend that you not change the first page of labels. Use the second page to enter custom labels. This allows you to return to the default labels at any time.

Multi-language Mode

To switch from the first page of labels to the second page, press the recessed LANG–PAGE 1/2 button with the tip of a ballpoint pen. Press the button again to toggle back to the first page. The new selection, either “PAGE 1” or “PAGE 2” appears briefly in the display.

EDIT Button

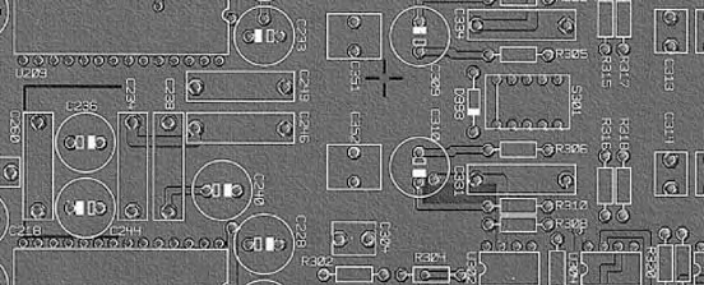
To change the label for a button:

1. Press a DEVICE/INPUT button to select the command set for which you wish to change the labels. For example, press TUNER to change the labels that appear when a button in the TUNER command set is pressed.
2. Press the EDIT button . The prompt “EDIT?” appears in the display.
3. Press the DEVICE/INPUT or COMMAND button you wish to relabel. The current label appears in the display with the first letter flashing.
4. Press the UP or DOWN buttons to change the flashing letter, stepping through the list of characters. The “Character Map” illustration shows the available characters. Press the “X” button on the numeric keypad to insert a blank space in the label.
5. Press the – or + button to move to the next character in the label.
6. Repeat steps 4 and 5 to complete the new label. When a custom label is complete it is automatically centered in the display. Press the EDIT button to save the new label and return to normal mode.

Repeat steps 1 – 6 for to relabel each desired button. During the labeling process, if no button is pressed for 15 seconds, the RR-1050 returns to normal mode without saving a new label.

NOTE: Relabeling only changes the command button label for the DEVICE set that is active when the labeling is performed. Every command button for each device can have its own custom label.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.



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