# automator™

## 200

**URC-200**

# Owner's Manual

THE POWER OF SIMPLE.™

*A GREAT REMOTE FOR ENTHUSIASTS!*

**Universal Remote Control®**

# Thank You!

*Thank you for purchasing the Automator™ URC-200 Pre-Programmed and Learning Remote Control. The DVD tutorial supplied with the Automator demonstrates the process of programming and automating a home entertainment system. Watch the DVD first to familiarize yourself with the capabilities of the Automator and the process of programming. This manual is designed to assist you step-by-step as you program the Automator to replace all of your remote controls and automate your home entertainment system.*

# Table of Contents

# Getting Started

### Congratulations!

You've purchased one of the most advanced control systems available! The Automator comes pre-programmed with over one thousand devices. All you have to do is set the Automator to the brand and model of each of your components. You'll find instructions for quick set up on page five.

In addition, the Automator buttons can also learn any button from any remote control.

The Automator's many exciting advanced features will help you enjoy the home entertainment experience. As an example, by using Macro programming, you can power on all of your components and start the show with the press of one button! You can even program your favorite channels to tune in with the press of one button instead of entering the channel number each time.

The Automator's features can help you make operating your home entertainment system fun and easy for everyone in your family.

We hope you will review this manual carefully and take full advantage of all the Automator has to offer.

### Battery Installation

Remove the battery compartment cover by pressing up the cover lock. Insert four AAA batteries into the battery compartment as shown in the diagram.

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# Button Layout

**TITLE**

**FAVORITE Channel Button**

**PAGE buttons change the page of buttons displayed.**

**MAIN Button takes you to the MAIN Menu.**

MAIN
AUDIO
DVD
VCR1
TV
CABLE
1 OF 5

**These Labeled Buttons change their functions when the Page is changed.**

**PAGE numbers of the Device**

**FUNCTION buttons change their commands whenever a new DEVICE is selected.**

UNIVERSAL® remote control

*automator*

**3**
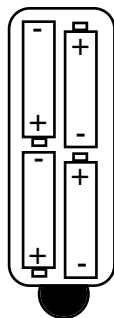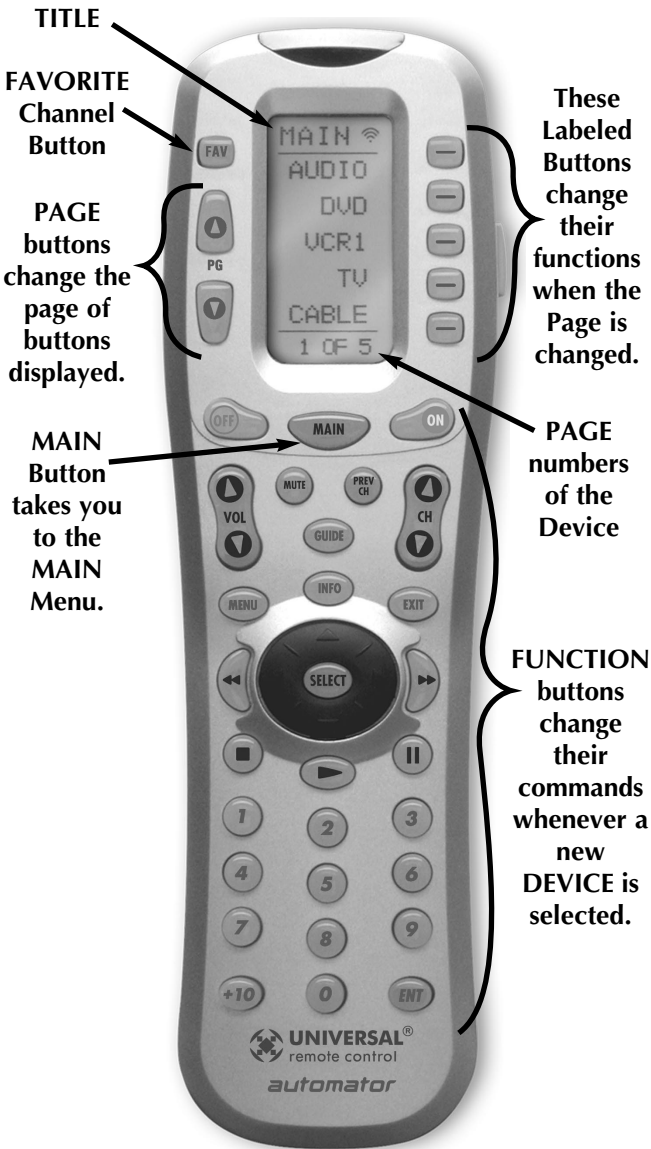
### Selecting a New DEVICE Changes
### All Button Commands Instantly

The Automator can operate ten different devices even though it is only one remote control. Let's try it now! Press the MAIN button, then press the TV Device button.
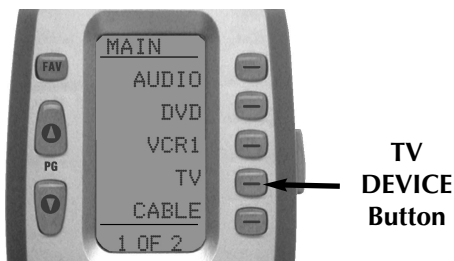


**TV DEVICE Button**

The TITLE changes to TV. Now all of the buttons are dedicated to TV functions. If you press the PAGE buttons, you can see that the TV DEVICE has a total of five pages. If you go back to the MAIN Menu by pressing the MAIN button, then select any of the other ten DEVICES, each of which contains five pages total.

In the next few pages, you'll set up the Automator to control all the devices in your home theater system!

### Light Button

The LIGHT button will backlight all the buttons. Pressing it again will turn off the light, or just wait ten seconds (the backlighting automatically shuts itself off).



**LIGHT Button**
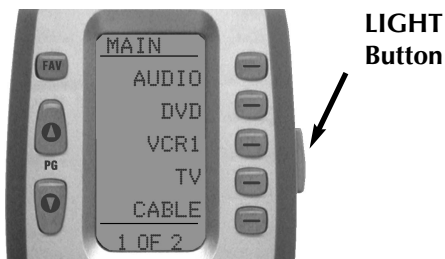
# Basic Set Up

You can set up your Automator using either the learning or the pre-programmed method. Because all the buttons can be set up in one quick operation rather than one button at a time, we recommend you start with pre-programmed set up before you do any learning.

## Pre-Programmed Standard Method

**1** Turn on the component you wish to set up in your Automator (TV, VCR, DVD, etc.)

**2** Look up the code table shown on pages 33 - 49 and take note of the three digit codes listed for your component and brand.

**3** Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately three seconds. The top of the display screen will show "SET UP". You are in SET UP mode now.

*Note: You have 30 seconds to perform a step while you are in SET UP mode. If you don't press a button within that time, the Automator will time out and return to normal operation.*



**MAIN Button**

**ENT Button**
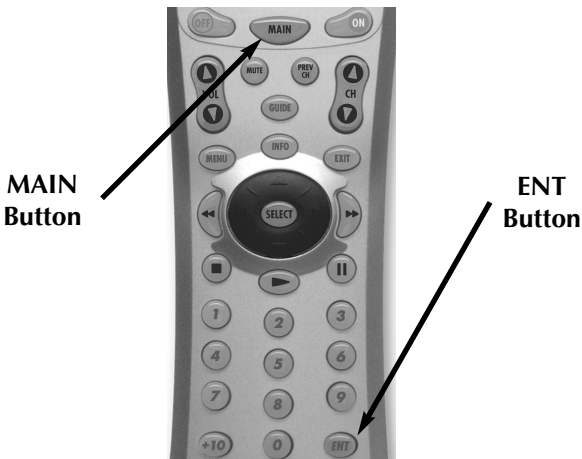
**4** Press the P-PRO button to select the
Pre-Programmed Code method.



**P-PRO
Button**

SETUP
P-PRO
LEARN
EDIT
MACRO
FAV
1 OF 2

**5** The display will show a list of the first five devices.



P-PRO
AUDIO
DVD
VCR1
TV
CABLE
PRESS
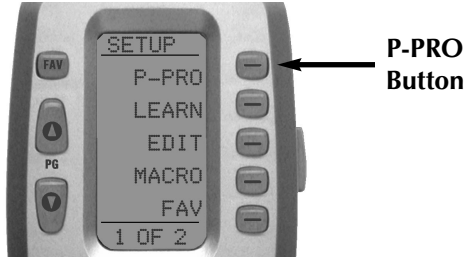
**First
Five
Devices**
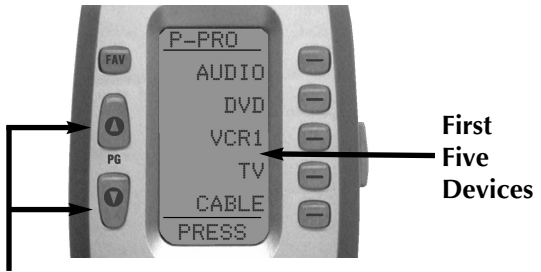
**Pressing the Page Up or Down button will display
a list of the next five devices.**

**6** Move the blinking cursor to the device you wish
to program by using the cursor UP or cursor
DOWN button shown below, then press SELECT.

*For Example: If you want to program your TV,
make "TV" blink by pressing the cursor up or
down, then press the SELECT button.*



**UP**

**DOWN**

**SELECT**

**7** The bottom of the display should now be flashing FROM TABLE. This prompts you to select the CODE TABLE via the Cursor and SELECT buttons.

*For Example: Let's pretend you are programming a TV. You would find the the three digit codes for Televisions in the TV CODE TABLE. So you would press the cursor buttons until "TV" is flashing, then press the SELECT button. This selects the TV CODE TABLE. Now you are ready to test codes!*

**UP** ———————

**SELECT**

**DOWN** ———————

**8** Point the remote control at the component, then enter the first three digit code number from your notes using the numbered buttons. Continue to enter codes until the component powers off.

**Enter the Code via the Numbered Buttons**
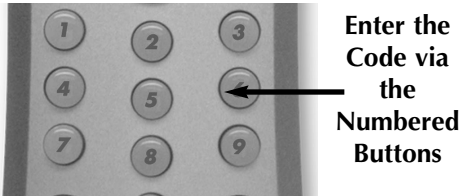
*For Example: Let's pretend you have a Sony TV. You would find the the three digit codes 070, 139,147, 126, 185, 194 and 085 under Sony in the TV CODE TABLE. Using the numbered buttons on the Automator, enter the 070 and watch the TV. If it doesn't turn off, enter 139, then try 147 and so on.*

**Note:** *If none of the codes turn off the component, you should try the Scan Method (see page 9).*

**9** When the component turns off, save the code number you entered by pressing the SAVE button that appears on the screen.



**Code You Entered**

**SAVE Button**
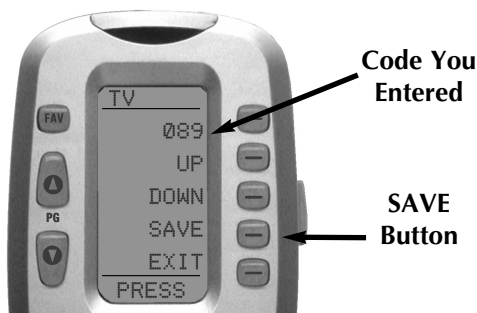
**10** Exit SET UP mode by pressing the MAIN button two times. When the display shows "MAIN", you are back in normal operating mode. Now it's time to test the all the buttons. If some buttons don't work, try another three digit code to see if it gives better operation.

*For Example: My Sony TV powers off with code 139. However after trying 139, not all buttons work. I repeated steps 1 to 10 trying other code sets and eventually discovered that the 185 code set operates ALL my buttons.*

**11** Repeat steps one through ten for each of your devices. In most systems, you can finish basic programming in just a few minutes and put all your old remote controls away. Once you have finished all of the devices, you can move on to page 13 to set up your volume punch through.

If you can't find any code that powers off a component, try the Scan method on the next page. If you are missing one or two commands, use the learning method on page 10.

## Pre-Programmed Scan Method

If none of the codes listed for your brand in the Code Table powered off your component, you can scan the entire Code Table for a working code set. Often a code set for another brand will operate a device (some brands contract manufacture for other brands). Here's how to scan an entire Code Table:

**1** **to** **8** Put the Automator in Setup Mode and select P-PRO, then the Device you'd like to program, then the Code Table you want to scan. This is described in steps one through eight of the Standard Method on pages five through seven.

**9** When you see the P-PRO display shown below (we used TV as an example), use the UP or DOWN buttons instead of entering the three-digit code. You'll see the code number on the display change as you press the either UP or the DOWN button. Each time the number changes, you've tested another power off command.



Code You Tested

UP & DOWN Buttons
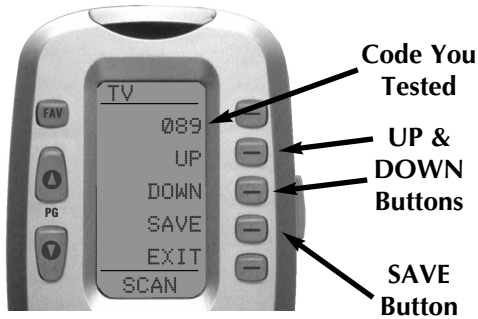
SAVE Button

**10** Watch your component. When it powers off, press the SAVE button to save the code you tested. Press the MAIN button twice to return to normal operating mode and test all the buttons. Use the learning method described on the next page to correct any problems.

**9**

## The Learning Method

The Automator can learn commands from your old remote controls one at a time, via this simple process:

**1** Line-up the Automator with your old remote control, head-to-head, one or two inches apart.



**2** Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately three seconds. The top of the display screen will show "SET UP". You are in SET UP mode now.

*Note: You have 30 seconds to perform a step while you are in SET UP mode. If you don't press a buton within that time, the Automator will time out and return to normal operation.*

**3** Press the LEARN button to select the Learning method.



**Press the LEARN Button**
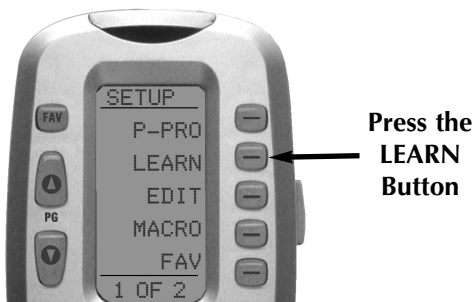
The top of the display screen will change to "LEARN".



**10**

**4** The display will show a list of the first five devices.

**5** Select the device you'd like to teach a few commands to by pressing the Device button directly.



**Select any of the Devices directly.**
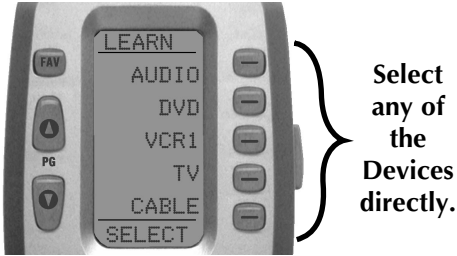
**6** Now, navigate to the page you want and press any button you want to teach a command to.



**Select any button you'd like to teach a command to by pressing it.**

*Note: The only buttons you can't teach are the PAGE, MAIN and FAV buttons.*

Once you select a button, the top of the screen will change from "LEARN" to "READY".



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**7** Press and hold the button on your old remote control until the display changes to "RETRY".

Press and hold the same button on your old remote control once again.

**Note:** DoubleTap learning is exclusive Automator technology bringing you the most reliable operation.

Once you have taught the button twice, the display will change to either "GOOD" or "FAILED".

GOOD

If the "GOOD" label appears on top of the display and "SAVED" flashes on the bottom, you were successful. Now, you can select another button to teach.

FAILD

If the "FAILED" label appears on top of the display screen, try to teach the same button in Automator once again by repeating steps six and seven.

**8** Continue to teach any commands from any of your remote controls by repeating steps five, six and seven (to go back to step five, press MAIN once).

**9** Once you completed teaching all the buttons you wish, return to normal operation by pressing the MAIN button twice. Test all your new commands, if any of them don't work, try learning again using these notes:

*Move to another room. Plasma TVs, sunlight, halogen or quartz lighting can interfere with the learning process.*

*Although the old remote control seems to work fine, change the batteries to fresh alkaline batteries.*

*Vary the distance between the remote controls gradually. Try 1/4", 1", 2" and so on, up to 4 feet.*

*Tap the button on the original remote control instead of pressing and holding it during the learning process.*

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## Punch Through Volume Control

The one feature that will really make life easy for you and your family is Punch Through. It's worth setting up right away! In most home entertainment systems, the sound volume is controlled by only one device. In some systems it is the TV device that controls the sound; in others it would be the AUDIO device (for the A/V surround sound receiver).

Now, imagine you are watching a DVD, so the Automator is set to operate the DVD. If you want to lower the volume you have to press MAIN, then the device that controls the sound (TV or AUDIO), then the Volume Down button. After you adjust the volume, you would have to press MAIN, then the DVD device button to get back to your DVD controls!

This is very inconvenient. You can fix this very quickly by using Punch Through.

### Punch Through Volume Control Set Up

1 Enter Set Up mode by pressing MAIN and ENT, then select PUNCH from page 2 of Set Up. (Use one of the PAGE buttons to get to page 2).

2 The display changes to "PUNCH". Press VOL to program Volume Punch Through.



**Select Volume to Punch Through**
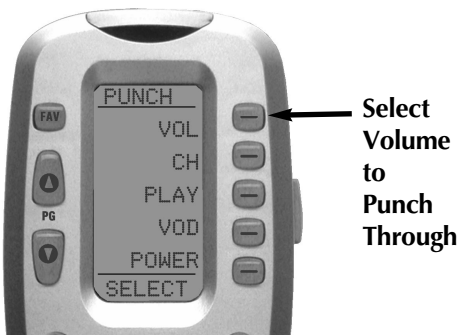
③ The bottom of the display flashes "PUNCH TO".
Press the device button for the device that doesn't
have volume control commands yet (i.e. DVD).
This is the device you are going to PUNCH TO for
the volume and mute commands.



**Select
the Device
you want to
"Punch To"**

*Note: If you wish to PUNCH to the MAIN device, press the
POWER OFF button at this time.*

④ The bottom of the display will then flash "PUNCH
FROM". Now you select the device that has the
volume commands you want. The bottom of the
display will flash "SAVED".

⑤ Repeat steps one to three until all your devices
operate the volume perfectly. Press the MAIN but-
ton twice to  return to normal operating mode and
test your Punch Through programming.

*Note: The Punch Through feature is not limited to volume
and can also be applied to channel or other functions. If you
find yourself switching to a particular device frequently to use
a group of controls, consider using Punch Through for anoth-
er group, as listed here:*

**VOL -** Volume Up, Volume Down and Mute
**CH -** Channel Up, Channel Down and Prev. Channel
**PLAY -** Play, Stop, Pause, Rewind and Fast Forward
**VOD -** Guide, Menu, Info, Exit, Up, Down, Left, Right, Select
**POWER -** Power On and Power Off

# Advanced Operation

## Setting Backlight Options

You can adjust the amount of time that the Automator backlight stays on by entering the SET UP mode and proceeding to page two and press the LIGHT button on display. Simply enter the duration time from 0 - 99 seconds using the number pad. After making your selection, press the SAVE button.

If you do not want the backlight feature activated, press the ON button that appears on the display screen. The ON will automatically change to OFF. Press the SAVE button. Exit the programming mode by pressing the MAIN button.

## The FAV Button

When you press the FAV button, the screen changes to a list of your favorite TV channels. You can automate channel surfing by recording the channel numbers for your favorites with one touch. There are eight pages of five favorite channel buttons for a total of 40. Simply touch the PAGE buttons to display the other favorite channels. When you would like to return to the last device you viewed, press MAIN once (a second press will take you to the MAIN menu).



To set up your Favorite Channel buttons go to page 24.

## Adjusting Contrast

You can make the text darker by pressing both the MAIN and cursor UP buttons at the same time. To make the text appear lighter, press both the MAIN and cursor DOWN buttons at the same time.



**MAIN Button**

**Cursor Up & Down Buttons**



Contrast set low.    Contrast set high.

## Transmitting (Busy Signal) Icon

When a command is being transmitted, an icon will appear in the top right corner of the display. It is a useful aid when setting up Macros and FAVs, since it flashes with every step of a sequence of commands.

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# Advanced Set Up

After you've finished all your basic programming, you can choose to make operation easier for everyone by customizing the Automator just the way you want, using the Advanced Set Up features described in this section.

## Editing Button Labels

You can change the name of any of the screen labeled buttons (including Favorite Channels) by following these steps:

**1** Enter the SET UP mode by pressing and holding MAIN and ENT. As usual, you have 30 seconds.

**2** Press the EDIT button.
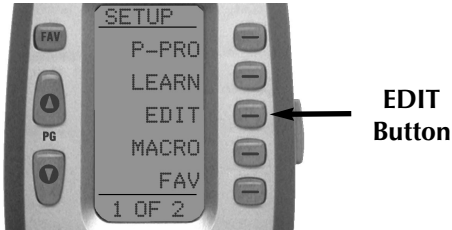


**EDIT Button**

**3** The screen changes to the EDIT menu. Press the TEXT button.



**TEXT Button**
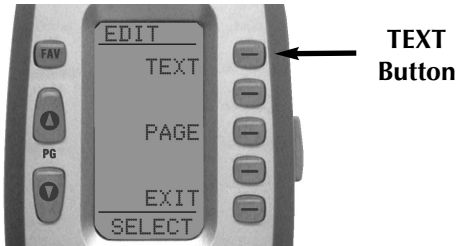
④ The screen displays the MAIN menu of devices while flashing "EDIT" at the top of the screen. Navigate to the device and page where there is a button label you want to edit using the FAV, MAIN, DEVICE, and PAGE buttons.

*Note: If you wish to change the name of one of the DEVICE buttons, press the Page Up button twice. The top of the display changes to MAIN, and you can navigate to MAIN page 1 or page 2 before going on to Step 5.*

⑤ Press the button you want to edit. The first character of your button label blinks.



**Blinking Character**
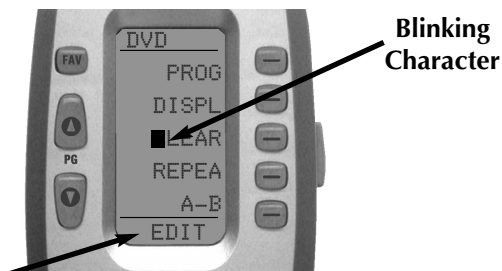
**EDIT flashes at the bottom of the screen.**

**UP Cursor button deletes ALL text.**

**LEFT Cursor button moves blinking character left.**

**RIGHT Cursor button moves blinking character right.**

**DOWN Cursor button deletes the currently blinking character.**
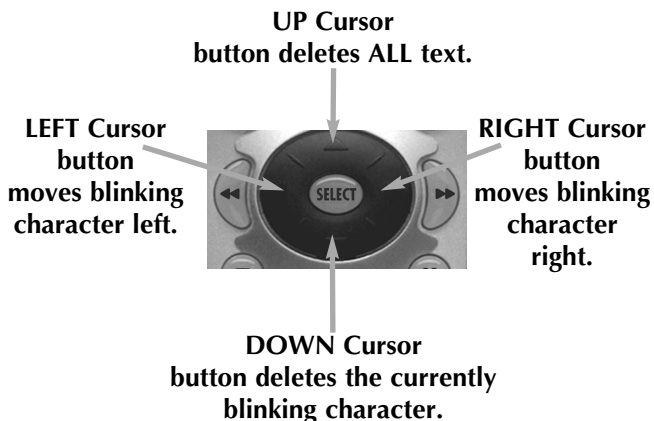
**6** Enter text using the number buttons shown below. Each press of the SAME number button steps through the characters available (as shown below). Once the character you want appears, move to the next space by pressing the Right cursor button.
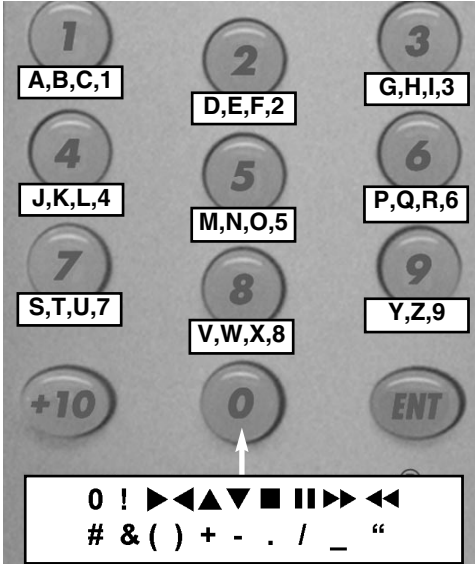


**7** When you are finished editing the button, press the button you edited and "SAVED" will flash at the bottom of the display.

**8** To change any other button labels, press the MAIN button once to return to Step 4. Repeat Steps 4 to 8.

Press the MAIN button four times to return to normal operation.

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## Macro Button Set Up

Imagine pressing just one button but watching your TV turn on, then the DVD player and then the A/V surround sound receiver. What would normally take three remotes and three button pushes, the Automator can accomplish with the press of one button. We call that a "Macro". Any labeled button, the Power On or the Power Off buttons (on any Device or Page) can be set to be Macro buttons!

To set up a macro button, follow these easy steps:

(1) Enter the SET UP mode by pressing and holding MAIN and ENT. As usual, you have 30 seconds.

(2) Press the MACRO button.
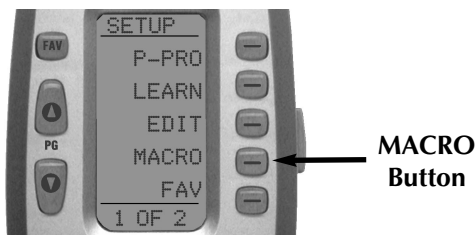


**MACRO Button**

The top of the display screen will show "MACRO". The bottom of the display screen will flash "SELECT".

(3) Navigate to the Device and Page where there is a button you would like to set as a Macro button using the MAIN, DEVICE and PAGE buttuns.

*Note: If you wish to set up one of the DEVICE buttons as a macro, press the Page Up button twice. The top of the display changes to MAIN, and you can navigate to MAIN page 1 or page 2 before going on to Step 4.*

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**4** Press the button you want to set as a Macro button. The top of the screen will display the label of the button you selected. At the bottom of the screen it displays "STEP0", indicating that no macro steps are set up yet.

**5** Now you navigate to the Device and Page that has a button you want in your macro using the MAIN, DEVICE and PAGE buttons. When you press a button, you set another Macro step. The display at the bottom will flash the total number of steps you have set up in this macro button.

*Don't worry about the number of steps. Each macro button can store up to 190 steps, so you are not likely to run out of steps!*

*Note: You can program delays in between commands by pressing the PAUSE button. Each press adds half a second to the delay.*

**6** Press the LIGHT button to end your macro. A new screen appears:



**SAVE Button**

**7** If you are happy with your macro, press the SAVE button. If not, the UNDO button lets you erase the last step. The EXIT button erases all the macro steps.

**8** Press the MAIN button twice to return to normal operation.

## Favorite Channel Setup

Imagine surfing all your favorite channels, without ever typing in a channel number. By simply setting up each of the FAV channel buttons to surf for you, you can really make cable or satellite operation fun and easy.

To program a FAV button, follow these easy steps:

**1** Enter the SET UP mode by pressing and holding MAIN and ENT. As usual, you have 30 seconds.

**2** Press the FAV button.



**FAV Button**
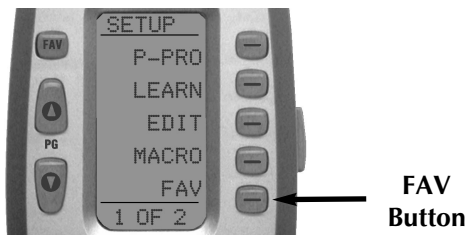
The top of the display screen will show "FAV". The bottom of the display screen will flash "SELECT".

**3** Use the Page buttons until you can see the name (i.e ABC, CBS, NBC) of the favorite channel you would like to set up.

**4** Press the favorite channel button you'd like to set up. The top of the screen now displays its name. The bottom of the screen displays "STEP0", indicating that you haven't set any steps for the channel numbers yet.

**5** Press the Device button that has the commands you use to tune in the channel.

*Note: You probably set up either the TV, CABLE or SAT DEVICE with the actual channel number commands).*

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**6** Press each of the number buttons for the channel.

*Note: If you are programming a channel that has the same numbers in it (like "33" or "522") it is sometimes best to set a half second delay in between the identical numbers by pressing the PAUSE button. Each press of the PAUSE button increases the delay by a half second.*



**PAUSE Button**
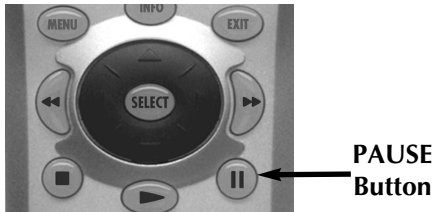
*Note: Some brands of television require an ENT(Enter) command after the channel numbers.*

**7** Press the LIGHT button after you enter the channel number. A new screen appears:
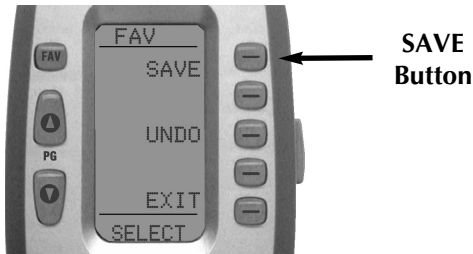


**SAVE Button**

**8** To save the channel you entered, press the SAVE button. The UNDO button lets you erase the last entry. The EXIT button erases the entire channel.

**9** When you are finished setting up FAV buttons, press the MAIN button twice to return to normal operation.

## Hiding/Adding Pages

Each of your Automator Devices actually contains eight pages. However, only five pages are visible now (in the factory default setting). Three pages are hidden in each device. If you wish to use the hidden pages, you can ADD them. If you don't want to use some of your existing pages, you can HIDE them. You can add or hide pages on devices OR on your favorite channel pages.

*Note: Be sure to program a macro before you hide pages with macro commands on them. You can't access hidden pages during macro programming, but it is fine to hide a page with macro steps on it afterwards.*

### Hiding and Adding Pages

**1** Enter the SET UP mode by pressing and holding MAIN and ENT. As usual, you have 30 seconds.

**2** Press the EDIT button.



**EDIT Button**
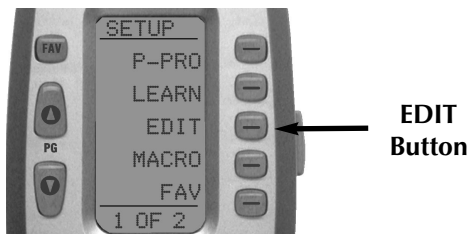
**3** Press the PAGE button.
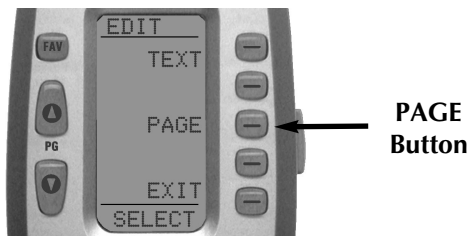


**PAGE Button**

**4** Each page asks whether you want to ADD? or HIDE? at the top of the page. Navigate to any page, using the MAIN, FAV, and PAGE buttons.

**5** When you would like to change a page's visibility, press the LIGHT button.
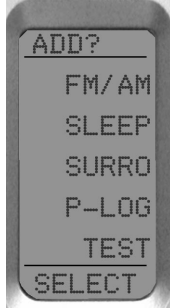
```
ADD?
    FM/AM
    SLEEP
    SURRO
    P-LOG
     TEST
SELECT
```
This page is hidden, to ADD it press the LIGHT button.

```
HIDE?
    AUDIO
      DVD
     VCR1
       TV
    CABLE
 1 OF 8
```
This page is visible, to HIDE it press the LIGHT button.

**6** You can continue adding or hiding pages on other devices by repeating Steps 4 and 5. To return to normal operation, press the MAIN button four times.

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### Erasing Mistakes

You can erase an individual button with a learned command, a macro or a favorite channel. You can erase an entire Device's learned command or macro buttons. You can also erase ALL your learned commands on all devices or all your macros or favs everywhere. You cannot erase a pre-programmed button, but you can replace one by teaching a command.

If you really want a fresh start, you can even erase everything (including all your pre-programmed buttons).

### Erasing Learned Buttons, Macros or Favs

**1** Enter the SET UP mode by pressing and holding MAIN and ENT. As usual, you have 30 seconds.

**2** Press the PAGE UP button to display page two of Set Up.

**3** Press the ERASE button.

**4** Press either the LEARN, MACRO or FAV button. The following screen appears:
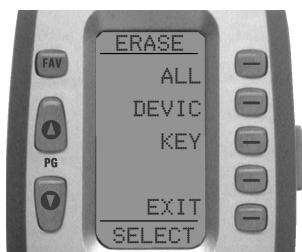


**ALL —** *Erases all of the specified (Learned, Macro or FAV) buttons everywhere in the Automator.*

**DEVICE—** *Erases all Learned or Macro buttons in a Device (this option doesn't appear for FAVS)*

**KEY—** *Erases one button only.*

**26**

(5) If you pressed the ALL display button, the Automator display screen will ask you if you are sure.

ERASE
ALL

SURE?

EXIT
PRESS

If you wish to erase all, press the **SURE** button.

If you pressed the DEVICE display button, a list of Devices will appear. Press the device button that you wish to erase. The bottom of the screen will flash ERASE twice, then ERASED.

If you pressed the KEY display button, you'll have to navigate to the Device and Page you want using the MAIN, DEVICE and PAGE buttons. Press a button to erase it. The bottom of the screen will flash ERASE twice, then ERASED.

(6) To return to normal operating mode, press the MAIN button four times.

### Erasing the Entire Automator

To erase EVERYTHING, press and hold both the MAIN and the STOP buttons for 15 seconds. After 15 seconds, the RESET screen appears. If you press the SURE button, the Automator will reset itself to the factory default con- figuration, erasing all of your work!

RESET
SURE?

EXIT
SELECT
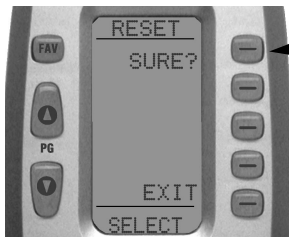
Press the **SURE** button to reset the Automator to factory default condition.

**27**

### Cloning (Copying) The Automator

If you own two or more Automators, you can copy and transfer all the programming from one to another Automator. Just follow these easy steps:

**1** Enter the SET UP mode by pressing and holding MAIN and ENT. As usual, you have 30 seconds.

**2** Go to page 2 of the SET UP menu via the PAGE UP button.

**3** Press the CLONE button.

**4** Align the two remote controls head-to-head, about an inch apart.



**5** Press the RECV display button on the new remote control you would like to program by cloning.

**6** Press the SEND display button on the remote control you previously programmed.

**7** Press the START button on the new remote control and then press the START button on your programmed remote control.

*Note: Typically cloning takes about 40 seconds.*

After completion, the cloned remote control will flash "GOOD".

**8** Return to normal operation by pressing the MAIN button twice.

## Recalling the Pre-Programmed
## Three Digit Code Number

If you didn't write down the three digit codes you set
up your Automator with, you can recall them via this
simple process:

**1** Enter the SET UP mode by pressing and holding
MAIN and ENT. As usual, you have 30 seconds.

**2** Go to page 2 of the SET UP menu via the PAGE
UP button.

**3** Press the RECAL button. The display changes to
the recall screens. They alternately flash all of the
three digit codes for the first five devices, then all
of the three digit codes for the second five devices
as follows:
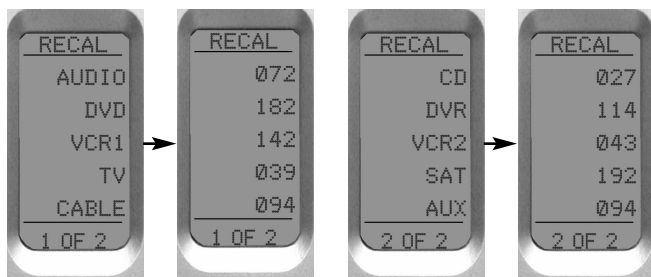


*Note: You can keep track of which of the two pages you are
looking at via the page numbers at the bottom of the screen.*

**4** Write down the three digit codes as they appear.
Page 32of this manual is set up for your notes.

**5** Return to normal operation by pressing the MAIN
button twice.

# Expanding With the Expander

You can use the Automator as you would your other remote controls. It transmits very powerful line-of-sight output using infrared light commands (invisible to the naked eye). Typically, when you use the Automator line of sight like this, expect a range of between 30 and 50 feet when it is pointed at the components. When the remote is not pointed in the general direction of the components, the range will vary (depending on reflective surfaces, lighting, etc.).

However, the Automator also sends omnidirectional radio signals compatible with the  MRF-100 Expander kit. By purchasing the optional Expander kit, you can operate your equipment with the Automator 50 to 100 feet away (through walls, doors, cabinets, inside or outside). Since the Expander picks up the Automator's radio signals from any direction, regardless of distance, *you don't have to point* the Automator at all.

Nothing has to be done to the Automator for this feature to work. Every time you press a button on the Automator, it sends both a standard infrared AND a radio command. If you install the Expander kit, the MRF-100 will receive the Automator's radio signals and translate them into the infrared commands that control your components.

*Note: The Automator's radio signals will not control components directly. You must have an Expander to receive the Automator's radio signals. Components that came with "no pointing" radio remote controls cannot be operated by the Automator unless the component can be switched to standard infrared control via its internal menus. Some remote control ceiling fans are radio only and cannot be operated by the Automator.*

The Automator sends radio signals to the Expander, which is a radio receiver.
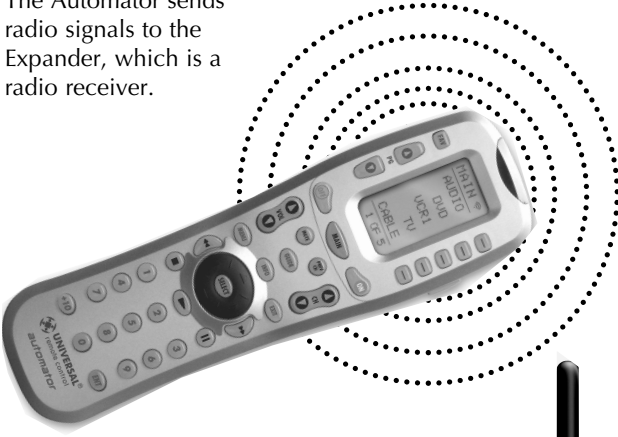


The Expander converts radio to standard infrared commands and sends them out via a built-in front blaster to components in the same cabinet space.
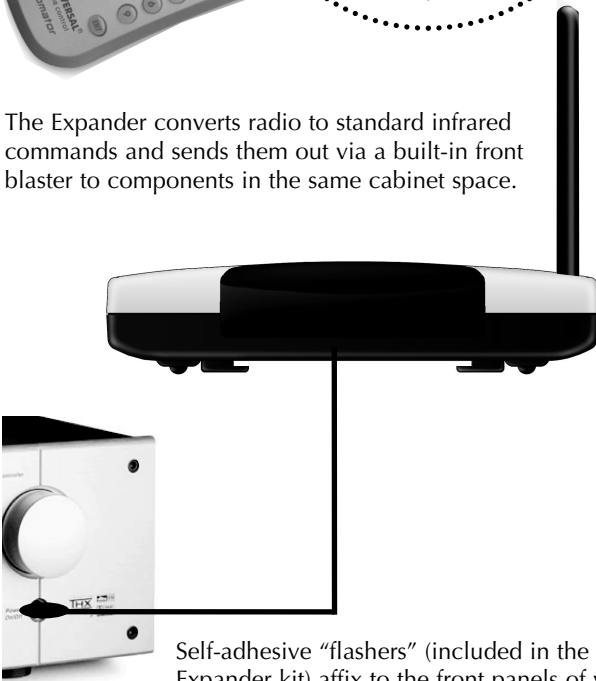
Self-adhesive "flashers" (included in the Expander kit) affix to the front panels of your components. The flashers relay infrared commands to components out of sight of the MRF-100 front blaster. The flashers plug into the MRF-100 rear flasher line output jacks. Each flasher has a 10' cable to easily reach components on nearby shelves.

# Pre-Programmed Code Notes

Record the three digit codes for your system here:

AUDIO _____

DVD _____

VCR1 _____

TV _____

CABLE _____

CD _____

DVR _____

VCR2 _____

SAT _____

AUX _____

# Pre-Programmed Code Tables

The Automator's built in library of remote control commands is classified by category (TV, VCR, DVD etc.) and by brand (Sony, B & K, Panasonic, etc.). You simply find the correct category, then the brand you own. Often there will be more than one three digit code for you to try. Just circle the correct row and refer to it while programming (step-by-step instructions for using three digit codes.

If you have a brand that doesn't appear or if you have already tried all of the listings for your brand, it may be that the component is actually manufactured by another company. Because the Automator library includes many codes from manufacturers who make components for other companies, you may find that a search of the pre-programmed codes for a particular category will be successful by using the Code Scanning method, refer to the Basic Programming section for instructions.

and custom products includes
multi-zone controllers, line
doublers, video processors,
remote controlled screens
and automation systems.

# AUDIO - Amps, Preamps and Receivers

| BRAND | THREE DIGIT CODE NUMBERS |
|-------|--------------------------|
| ADC | 007 |
| ADCOM | 082 092 225 161 269 355 356 366 |
| AIWA | 170 018 104 202 203 213 211 188 |
| AKAI | 138 189 |
| AMC | 125 126 127 128 258 281 282 038 |
| AMEND | 054 |
| AMX | 196 |
| ANGSTROM | 142 |
| ANTHEM | 335 336 337 338 339 |
| ARCAM | 141 |
| ATLANTICTECH | 342 |
| AUDIO ACCESS | 147 |
| AUDIOALCHEM | 135 |
| AUDIO DESIGN | 194 221 011 |
| AUDIO EASE | 021 196 207 |
| AUDIO FILE | 071 |
| AUDIO MATRIX | 167 |
| AUDIOSOURCE | 273 |
| AUDIO TECHNI | 134 |
| B & K | 096 097 |
| BOSE | 070 170 224 347 |
| BRYSTON | 023 |
| CARVER | 006 028 061 071 201 214 226 180 185 022 029 077 284 |
| CASIO | 076 |
| CHIRO | 140 |
| CINEMA SOUND | 034 134 |
| CITATION | 148 272 |
| CLARION | 026 |
| COMPAQ | 382 076 |
| CURTISMATHE | 002 034 109 215 229 230 027 037 234 259 330 340 341 349 |
| DENON | 350 |
| EIGER | 149 |
| ELAN | 057 290 |
| ENLIGHTAUDIO | 099 098 |
| ESCIENT | 368 |
| FANFARE | 352 |
| FISHER | 047 214 180 182 297 |
| FLEXTRONICS | 378 |
| FOSGATE | 062 231 342 |
| GE | 056 260 |
| GOLDSTAR | 008 |
| HAFLER | 174 |
| HARMAN KARD | 231 233 254 153 154 118 121 227 277 317 318 365 |
| HITACHI | 020 |
| IMERGE | 371 |
| INKEL | 197 |
| INTEGRA | 354 |
| JBL | 263 |
| JCPENNEY | 076 216 |
| JEFFROWLAND | 206 |
| JENSEN | 058 |
| JVC | 240 163 191 114 266 279 291 |
| KENWOOD | 026 066 145 146 181 190 197 192 182 199 151 222 180 |

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| KENWOOD (continued) | 005 280 374 |
| KINERGETICS | 220 140 |
| KLH | 331 |
| KOSS | 216 |
| KRELL | 150 072 376 |
| KYOCERA | 007 |
| LEXICON | 120 235 236 237 357 358 359 360 361 362 363 364 |
| LINN | 124 377 |
| LUXMAN | 137 139 052 165 115 004 009 |
| LXI | 076 056 |
| MAGNAVOX | 086 164 152 208 |
| MARANTZ | 006 028 031 040 063 185 186 251 265 119 289 296 |
| MCINTOSH | 238 286 |
| MCS | 076 |
| MERIDIAN | 100 012 013 |
| MITSUBISHI | 242 243 204 |
| MONDIAL | 157 158 042 043 081 112 |
| MYRYAD | 276 293 |
| NAD | 186 113 283 |
| NAKAMICHI | 111 244 245 172 183 287 |
| NEC | 176 |
| NIRO | 343 |
| ONKYO | 017 046 064 107 108 187 079 080 090 179 209 270 275 |
| OPTIMUS | 026 041 138 |
| OUTLAW | 342 |
| PANASONIC | 032 195 219 177 292 |
| PARASOUND | 129 130 132 261 294 295 333 334 |
| PHAST | 196 |
| PHILIPS | 249 250 251 063 119 |
| PIONEER | 014 033 039 044 045 050 069 159 168 116 035 078 198 |
| POLKAUDIO | 029 |
| PROCEED | 144 268 |
| RCA | 010 048 117 156 067 288 |
| REALISTIC | 019 056 073 075 095 |
| REQUEST | 351 |
| REVOX | 162 |
| ROTEL | 074 083 085 |
| SAMSUNG | 016 |
| SANSUI | 040 048 110 119 065 228 |
| SANYO | 047 059 |
| SCOTT | 019 091 |
| SEARS | 076 |
| SHARP | 026 094 131 175 181 |
| SHERWOOD | 024 038 055 102 103 105 106 051 030 |
| SONY | 018 093 223 247 248 160 166 015 101 184 218 271 353 |
| SOUNDESIGN | 369 372 |
| SOUNDMA-TRS | 036 375 |
| SNDSTREAM | 084 088 |
| SSI | 068 |
| SUMO | 171 |
| SUNFIRE | 344 345 346 |
| TAEKWANG | 138 |
| TEAC | 005 019 049 111 212 217 |
| TECHNICS | 122 176 193 219 178 177 200 257 262 |

## DVD - DVD Players and Changers

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| AIWA | 146 |
| ALPINE | 098 |
| APEX DIGITAL | 087 111 115 |
| DENON | 007 080 |
| FUNAI | 143 |
| GE | 026 027 |
| GOVIDEO | 137 |
| HARMAN KARDON | 084 140 |
| HITACHI | 101 |
| INTEGRA | 142 |
| JVC | 012 |
| KENWOOD | 151 |
| KLH | 135 |
| KRELL | 104 |
| LEXICON | 148 |
| LG | 091 057 074 |
| MAGNAVOX | 066 096 |
| MARANTZ | 083 095 |
| MERIDIAN | 153 |
| MITSUBISHI | 017 |
| MYRYAD | 102 134 |
| NAD | 088 |
| NAKAMICHI | 103 |
| ONKYO | 076 035 |
| PANASONIC | 021 042 138 139 144 150 |
| PHILIPS | 066 083 095 105 |
| PIONEER | 023 092 099 107 108 131 |
| PROCEED | 086 |
| PROSCAN | 026 027 |
| RCA | 026 027 |
| SAMSUNG | 056 070 119 |
| SANSUI | 154 |
| SANYO | 147 |
| SHARP | 094 |
| SONY | 033 118 145 |
| SYLVANIA | 143 |
| SYMPHONIC | 143 |
| TATUNG | 102 |
| THOMPSON | 026 027 |
| TOSHIBA | 035 034 130 141 |
| VENTURER | 149 |
| YAMAHA | 042 089 |
| ZENITH | 057 074 091 |

## DVD - Laser Disc Players

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| DENON | 206 207 |
| FUNAI | 120 |
| KENWOOD | 152 013 |
| MAGNAVOX | 032 121 |
| MARANTZ | 211 |
| MITSUBISHI | 121 |
| NAD | 121 |
| OPTIMUS | 049 013 |
| PANASONIC | 113 |
| PHILIPS | 032 |
| PIONEER | 106 117 121 |
| RADIO | 120 |
| SHACK | 002 |
| RCA | 049 |
| REALISTIC | 127 |
| RUNCO | 075 |
| SANYO | 152 013 |
| SHARP | 053 110 |
| SONY | 113 |
| TECHNICS | 032 |
| THETA DIGITAL | 152 106 |
| YAMAHA | 043 129 |

## DVD - DVD Players and Changers

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| AIWA | 146 |
| ALPINE | 098 |
| APEX DIGITAL | 087 111 115 |
| DENON | 007 080 |
| FUNAI | 143 |
| GE | 026 027 |
| GOVIDEO | 137 |
| HARMAN KARDON | 084 140 |
| HITACHI | 101 |
| INTEGRA | 142 |
| JVC | 012 |
| KENWOOD | 151 |
| KLH | 135 |
| KRELL | 104 |
| LEXICON | 148 |
| LG | 091 057 074 |
| MAGNAVOX | 066 096 |
| MARANTZ | 083 095 |
| MERIDIAN | 153 |
| MITSUBISHI | 017 |
| MYRYAD | 102 134 |
| NAD | 088 |
| NAKAMICHI | 103 |
| ONKYO | 076 035 |
| PANASONIC | 021 042 138 139 144 150 |
| PHILIPS | 066 083 095 105 |
| PIONEER | 023 092 099 107 108 131 |
| PROCEED | 086 |
| PROSCAN | 026 027 |
| RCA | 026 027 |
| SAMSUNG | 056 070 119 |
| SANSUI | 154 |
| SANYO | 147 |
| SHARP | 094 |
| SONY | 033 118 145 |
| SYLVANIA | 143 |
| SYMPHONIC | 143 |
| TATUNG | 102 |
| THOMPSON | 026 027 |
| TOSHIBA | 035 034 130 141 |
| VENTURER | 149 |
| YAMAHA | 042 089 |
| ZENITH | 057 074 091 |

## DVD - Laser Disc Players

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| DENON | 206 207 |
| FUNAI | 120 |
| KENWOOD | 152 013 |
| MAGNAVOX | 032 121 |
| MARANTZ | 211 |
| MITSUBISHI | 121 |
| NAD | 121 |
| OPTIMUS | 049 013 |
| PANASONIC | 113 |
| PHILIPS | 032 |
| PIONEER | 106 117 121 |
| RADIO | 120 |
| SHACK | 002 |
| RCA | 049 |
| REALISTIC | 127 |
| RUNCO | 075 |
| SANYO | 152 013 |
| SHARP | 053 110 |
| SONY | 113 |
| TECHNICS | 032 |
| THETA DIGITAL | 152 106 |
| YAMAHA | 043 129 |

# TVs, Projectors, Plasmas and Monitors

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| ADMIRAL | 072 081 161 160 |
| ADVENT | 247 |
| AKAI | 197 146 248 |
| A MARK | 112 143 |
| AMPRO | 167 073 157 183 |
| AMSTRAD | 052 |
| ANAM | 043 054 056 080 112 131 |
| AOC | 197 004 112 058 |
| AUDIOVOX | 076 |
| BARCO | 233 |
| BLAUPUNKT | 088 |
| BROKSONIC | 238 |
| CAIRN | 201 |
| CANDLE | 197 002 003 004 |
| CAPEHART | 058 |
| CETRONIC | 043 |
| CITIZEN | 197 002 003 004 043 101 103 143 |
| CLASSIC | 043 |
| CONCERTO | 004 |
| CONTEC | 043 050 051 |
| CORONADO | 143 |
| CRAIG | 043 054 |
| CROWN | 043 143 |
| CURTIS MATH | 197 101 004 143 |
| CXC | 043 |
| DAEWOO | 004 016 043 044 076 103 114 125 127 143 |
| DAYTRON | 004 143 |
| DREAMVISION | 235 |
| DWIN | 177 |
| DYNASTY | 043 |
| DYNATECH | 062 |
| EIKI | 187 |
| ELECTROHOME | 143 024 076 196 |
| EMERSON | 028 048 043 155 005 197 004 047 050 051 076 096 143 151 153 154 |
| FISHER | 007 057 |
| FUJITSU | 198 246 |
| FUNAI | 028 043 |
| FUTURETECH | 043 |
| GE | 160 144 165 073 197 008 009 034 056 074 130 155 161 004 091 157 183 |
| GOLDSTAR | 113 116 102 004 106 112 119 127 143 |
| HALL MARK | 004 |
| HITACHI | 011 163 166 004 009 010 012 023 075 143 158 072 |
| INFINITY | 164 |
| INFOCUS | 230 |
| JBL | 164 |
| JCPENNEY | 004 024 197 008 009 030 065 101 143 156 160 |
| JENSEN | 013 |
| JVC | 038 034 070 083 145 199 210 240 241 |
| KEC | 043 |
| KENWOOD | 197 070 |
| KLOSS | 002 059 |
| KMC | 143 |
| KTV | 043 197 143 154 |
| LG | 113 116 102 004 106 112 119 127 143 |

| BRAND | THREE DIGIT CODE NUMBERS |
|-------|--------------------------|
| LODGENET | 072 |
| LOEWE | 164 |
| LOGIK | 072 |
| LUXMAN | 004 |
| LXI | 166 007 015 052 081 160 164 |
| MAGNAVOX | 164 059 197 003 060 061 004 063 064 127 022 160 094 239 |
| MARANTZ | 197 164 184 |
| MATSUI | 164 |
| MEMOREX | 007 072 004 |
| METZ | 088 |
| MGA | 197 004 024 028 042 |
| MINERVA | 088 |
| MITSUBISHI | 109 124 024 004 028 040 042 146 191 |
| MTC | 197 004 062 101 |
| NAD | 015 025 |
| NEC | 132 130 134 197 040 016 024 056 019 236 237 |
| NIKEI | 043 |
| ONKING | 043 |
| ONWA | 043 |
| OPTONICA | 019 081 |
| ORION | 096 |
| PANASONIC | 034 056 080 092 164 208 |
| PHILCO | 197 003 059 060 064 164 004 024 056 063 |
| PHILIPS | 164 005 093 038 197 003 004 059 127 184 206 239 |
| PIONEER | 135 025 197 018 023 116 190 234 |
| PORTLAND | 004 143 |
| PROSCAN | 144 160 161 165 167 |
| PROTON | 004 131 058 143 171 173 193 |
| QUASAR | 034 056 092 |
| RADIO SHACK | 019 004 143 043 127 |
| RCA | 160 165 065 156 144 161 197 004 024 056 152 023 074 |
| REALISTIC | 007 019 043 047 |
| ROCTEC | 186 |
| RUNCO | 168 169 178 179 180 181 182 183 073 157 |
| SAMPO | 197 058 004 202 |
| SAMSUNG | 050 089 101 105 004 127 143 160 228 229 |
| SANYO | 166 007 020 053 057 082 187 |
| SCOTT | 028 043 004 048 143 |
| SEARS | 015 030 004 007 028 057 143 094 160 082 165 166 |
| SELECO | 189 200 205 227 |
| SHARP | 081 019 014 170 028 029 004 022 143 175 |
| SIEMENS | 088 |
| SIGNATURE | 072 |
| SOLE | 231 232 |
| SONY | 070 139 147 126 185 194 085 |
| SOUNDESIGN | 028 004 003 043 |
| SPECTRICON | 112 |
| SSS | 004 043 |
| SUPRE MACY | 002 |
| SYLVANIA | 197 003 059 060 063 064 164 044 160 127 |
| TANDY | 081 |
| TATUNG | 056 062 |
| TECHNICS | 034 080 |
| TECHWOOD | 004 |
| TEKNIKA | 002 003 004 024 028 043 072 101 143 |

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| TELEFUNKEN | 037 046 086 087 |
| TELERENT | 072 |
| TERA | 172 |
| TMK | 004 |
| TOSHIBA | 015 138 030 007 040 062 101 |
| TOTEVISION | 143 |
| UNIVERSAL | 008 009 |
| VIDEO CONC | 146 |
| VIDIKRON | 174 184 188 192 |
| VIDTECH | 004 |
| WARDS | 004 008 009 019 028 060 061 063 064 072 074 143 164 |
| WESTING. | 034 |
| HOUSE | 076 |
| YAMAHA | 197 004 |
| YORK | 004 |
| YUPITERU | 043 |

## CABLE - Cable Descramblers and Tuners

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| ABC | 004 103 003 039 042 046 053 |
| AMERICAST | 099 |
| ANTRONIX | 014 |
| ARCHER | 005 007 014 |
| BELL SOUTH | 099 |
| CENTURION | 092 |
| CENTURY | 007 |
| CITIZEN | 007 |
| COMBANO | 080 081 |
| COMSAT | 074 |
| COMTRONICS | 030 |
| COX DIGITAL | 074 |
| DIGICABLE | 101 |
| EAGLE | 020 030 040 |
| EASTERN | 057 066 |
| ECHOSTAR | 106 |
| ELECTRICORD | 032 |
| GEMINI | 008 054 |
| GENERAL ELECTRIC | 072 |
| GENERAL INSTRUMENT | 103 074 104 |
| GNC | 099 |
| GOLDEN CHANNEL | 030 |
| HAMLIN | 049 050 055 |
| HITACHI | 103 055 |
| JERROLD | 103 002 003 004 008 009 010 069 074 |
| MAGNAVOX | 010 012 064 079 095 094 |
| MEDIA ONE | 107 |
| MEMOREX | 052 |
| MITSUBISHI | 102 |
| M-NET | 037 |

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| MOVIE TIME | 028 032 |
| NOVAPLEX | 092 |
| NSC | 015 028 038 071 |
| OAK | 031 037 053 |
| PANASONIC | 044 047 |
| PARAGON | 052 |
| PHILIPS | 006 012 013 020 085 095 |
| PIONEER | 103 034 051 063 076 105 |
| PRUCER | 059 |
| PTS | 011 071 074 |
| PULSAR | 052 |
| RCA | 047 |
| RECOTON | 098 |
| REGAL | 049 050 |
| REGENCY | 057 |
| SAMSUNG | 030 |
| SCIENTIFIC ATLANTA | 003 011 041 042 043 045 046 |
| SIGNAL | 030 |
| SIGNATURE | 103 |
| SL MARX | 030 |
| SONY | 096 108 |
| SPRUCER | 047 078 |
| STARCOM | 002 004 008 009 |
| STARGATE | 008 030 097 104 |
| TADIRAN | 030 |
| TIMELESS | 030 |
| TIME WARNER | 043 |
| TOCOM | 039 040 056 |
| TOSHIBA | 052 |
| UNIKA | 007 014 |
| UNITED CABLE | 004 053 |
| UNIVERSAL | 005 007 014 032 035 |
| VIEWSTAR | 012 015 018 086 087 088 089 |
| ZENITH | 052 060 093 100 |

# CD - CD Players and Changers

| BRAND | THREE DIGIT CODE NUMBERS |
|-------|--------------------------|
| ADCOM | 062 042 |
| AIWA | 059 065 088 089 105 122 170 187 |
| AKAI | 085 195 202 |
| AMC | 231 232 |
| AMEND | 118 |
| ARCAM | 238 |
| AUDIO ACCESS | 119 147 |
| AUDIO EASE | 165 |
| AUDIO TECH-NI | 046 |
| BSR | 037 057 |
| CALIFORNIA AUDIO | 103 008 |
| CAPETRONIC | 063 |
| CARRERA | 057 080 |
| CARVER | 185 041 044 050 086 107 130 134 135 138 139 203 204 167 |
| CASIO | 111 182 |
| CLARINETTE | 182 |
| CREEK | 159 |
| CROWN | 035 |
| DENON | 002 123 |
| EMERSON | 042 069 102 |
| FISHER | 050 185 134 008 |
| FRABA | 111 |
| GENEXXA | 010 069 102 |
| GOLDSTAR | 080 |
| HAITAI | 093 |
| HARMAN KARD | 018 033 047 208 |
| HITACHI | 042 175 |
| INKEL | 130 143 144 |
| JCPENNEY | 014 061 092 141 |
| JENSEN | 158 |
| JVC | 004 022 136 163 213 214 242 243 |
| KENWOOD | 185 007 023 055 071 072 142 137 254 |
| KOSS | 061 |
| KRELL | 241 |
| KYOCERA | 005 |
| LOTTE | 102 |
| LUXMAN | 011 028 070 076 249 252 |
| LXI | 059 |
| MAGNAVOX | 044 107 |
| MARANTZ | 027 041 044 051 077 107 209 246 |
| MCINTOSH | 212 247 |
| MCS | 014 073 092 |
| MEMOREX | 010 |
| MISSION | 044 107 |
| MITSUBISHI | 179 |
| MITSUMI | 153 |
| MODULAIRE | 182 |
| MONDIAL | 147 |
| MYRYAD | 244 155 |
| NAD | 006 005 067 178 |
| NAKAMICHI | 217 218 219 095 |

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| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| NEC | 014 062 |
| NIKKO | 046 |
| NSM | 044 107 |
| ONKYO | 030 038 039 168 169 |
| OPTIMUS | 010 050 057 058 081 082 083 085 093 195 |
| PANASONIC | 103 201 172 008 068 248 |
| PARASOUND | 233 240 |
| PHILIPS | 041 044 107 246 253 |
| PIONEER | 010 020 025 056 174 175 176 |
| PROCEED | 239 |
| PROTON | 044 107 228 |
| QUASAR | 103 008 |
| RADIO SHACK | 182 |
| RCA | 017 042 150 |
| REALISTIC | 042 050 051 102 181 182 187 |
| ROTEL | 044 107 161 178 250 |
| SAE | 044 107 |
| SANSUI | 044 069 107 128 171 190 125 |
| SANYO | 050 |
| SCOTT | 069 102 |
| SHARP | 026 031 051 066 |
| SHERWOOD | 003 019 051 096 112 115 119 166 |
| SIGNATURE | 033 |
| SONY | 048 081 097 126 133 177 225 226 164 |
| SOUNDESIGN | 251 |
| SUMO | 155 |
| SYLVANIA | 044 107 |
| SYMPHONIC | 052 181 |
| TAEKWANG | 195 085 |
| TANDY | 010 |
| TEAC | 015 034 036 051 052 101 131 140 079 |
| TECHNICS | 060 103 200 172 184 008 068 |
| TECHWOOD | 076 |
| THETA DIGI-TAL | 234 235 |
| TOSHIBA | 006 067 091 160 148 |
| VECTOR RESEARCH | 080 |
| VICTOR | 004 022 114 124 |
| WARDS | 185 033 |
| YAMAHA | 024 046 054 186 183 245 |
| YORX | 182 |

## SAT - DSS Satellite Receivers

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| ECHOSTAR | 122 |
| GENERAL ELECTRIC | 151 106 150 |
| HITACHI | 139 140 |
| HUGHES | 068 154 161 162 165 166 |
| PANASONIC | 142 060 160 |
| PHILIPS | 071 152 153 156 |
| PROSCAN | 151 106 150 |
| RCA | 151 106 150 |
| SAMSUNG | 123 155 163 |
| SKY | 164 |
| SONY | 103 |
| TOSHIBA | 002 127 157 158 |
| UNIDEN | 136 |
| ZENITH | 091 081 082 083 084 120 159 |

## SAT (continued) - DVR, PVR (i.e., TiVo, Replay)

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| HUGHES | 108 117 |
| PHILIPS | 108 090 117 |
| RCA | 109 |
| REPLAY | 075 |
| SONY | 104 105 |
| TIVO | 090 117 |

## AUX - Tape Decks

| BRAND | THREE DIGIT CODE NUMBERS |
|---|---|
| AIWA | 015 071 100 114 |
| CARVER | 006 008 027 024 036 |
| DENON | 105 227 229 |
| FISHER | 064 |
| GOLDSTAR | 011 |
| HARMAN KARDON | 233 |
| JVC | 106 116 239 240 |
| KENWOOD | 005 013 023 026 064 145 146 181 190 |
| LINN | 124 |
| LUXMAN | 035 137 139 |
| MAGNAVOX | 027 |
| MARANTZ | 014 027 056 065 087 |
| MCINTOSH | 238 |
| MITSUBISHI | 242 243 |
| NAD | 029 048 |
| NAKAMICHI | 244 245 025 |
| ONKYO | 002 012 016 017 018 019 115 |
| OPTIMUS | 026 054 055 |
| PANASONIC | 007 010 032 088 195 |
| PHILIPS | 027 087 |
| PIONEER | 003 039 047 050 066 098 222 |
| QUASAR | 007 088 |

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| BRAND | THREE DIGIT CODE NUMBERS |
|-------|--------------------------|
| SANSUI | 027 113 119 224 |
| SHARP | 026 057 131 175 181 |
| SHERWOOD | 038 004 028 030 033 034 |
| SONY | 020 022 052 084 089 |
| TEAC | 009 059 212 |
| TECHNICS | 007 010 076 088 109 122 193 |
| TOSHIBA | 112 |
| VICTOR | 106 |
| YAMAHA | 021 026 031 067 040 |

## AUX - Custom Installation Products (continued)

| BRAND | THREE DIGIT CODE NUMBERS |
|-------|--------------------------|
| 3M | 152 |
| AIWA | 164 |
| ARCHER | 155 |
| AURORA | 220 |
| MUL | 191 |
| AUTON | 221 |
| CELADON | 213 214 215 216 217 218 |
| CRESTRON | 156 |
| DMX | 204 |
| DRAPER | 097 |
| DREAMVI- | 080 |
| SION | 206 |
| DWIN | 151 |
| EVERQUEST | 184 |
| EXTRON | 209 |
| FAROUDJA | 219 |
| FUJI | 153 |
| HUNTER- | 185 |
| DOUG | 185 |
| JERROLD | 208 257 |
| JVC | 158 159 077 |
| KENWOOD | 186 201 |
| LITE-TOUCH | 205 |
| LUTRON | 160 187 |
| MAKITA | 161 |
| MINDPATH | 085 |
| NILES | 162 |
| NSM | 081 |
| PIANO DISC+ | 163 156 |
| POLKAUDIO | 082 |
| RUSSOUND | 207 |
| SCIENTIFIC | 078 079 |
| ATL | 164 165 166 |
| SIMA | 153 |
| SOLO | 167 |
| SOMFY | 203 |
| SONY | 183 093 |
| STARCOM | 168 169 170 171 172 188 189 |

# Frequently Asked Questions

### What is a "macro" button?

*It is an Automator button you set to make a lot of things happen when you press it. For example, to watch a DVD in most home theaters requires several remote controls and many button presses (power up the TV, power up the surround sound, power up the DVD player, set the TV to the correct video input, set the surround sound to the correct audio input and finally; press play on the DVD player remote control).*

*Instead of pressing all of those buttons one at a time, the Automator enables you to set up one button that does it all automatically with one press. For more information on how and why you should set up macro buttons, watch the DVD tutorial or read pages 19-22.*

### If the batteries run out, will I lose my settings?

*No. The Automator stores all of your settings in non-volatile FLASH memory. You could remove the batteries for months, replace them at your convenience and the Automator would still remember your settings.*

### Who can I call for more answers?

*The Universal Remote Control technical support and customer service staff are ready to answer any questions you might have.*

*Call us at 1-914-835-4484*
*Monday - Friday, 9AM to 6PM (EST)*

# Warranty

The URC-200 is covered against any manufacturers defects or workmanship for a period of one year from the date of purchase if purchased from an authorized Universal Remote Control dealer. Units purchased from online auction sites or other unauthorized resellers have no warranty. This warranty does not cover the
following items:

- Damage from misuse, neglect, or acts of nature.
- Products that have been modified or incorporated into other products.
- Products purchased more than 12 months ago.
- Units purchased from unauthorized dealers or companies.

# Specifications

**URC-200 Automator Pre-Programmed and Learning Remote Control**

Learning Capability - 720 IR commands at standard frequencies (15kHz to 100kHz)
Macro Capability - 472 Macros of up to 190 steps each
IR Range (Line of Sight via Infrared): 30-50 feet, depending on the environment
RF Range (radio frequency): 50 to 100 feet, depending upon the environment
RF Frequency: 418MHz
Weight: 8 oz. (with batteries)
Size: 9.6″ x 3.75″ x 1″
Batteries: Four AAA Alkaline batteries included
LCD Size: approximately 7/8″ x 1-7/8″