

APPENDIX I
: USER'S MANUAL

Universal Remote Control



OWNER'S MANUAL

simply MORE powerful™

RF20

MasterControl™

Congratulations!

Congratulations on purchasing Universal Remote Control's MASTERCONTROL™ RF10 Pre-programmed and Learning Remote Control! You now have the power to control your entire home entertainment system with one easy-to-use remote. The RF10 can be used with thousands of audio/video Components because of the extensive code library pre-programmed into the remote. And, the RF10's impressive lineup of special advanced features can automate and customize the operation of your system in many ways. So... get ready to sit back, relax and simplify your home entertainment experience.

The Quick Setup DVD Program Guide supplied with the RF10 will assist you in programming your remote by guiding you through an easy step-by-step process. This Owner's Manual is designed as a companion reference source to the DVD Guide, should you need to refer back to a particular section, or review certain instruction detail not covered in the DVD. However, if you are unable to watch the DVD Guide for some reason, everything you need to know about programming the RF10 is contained in this Manual.



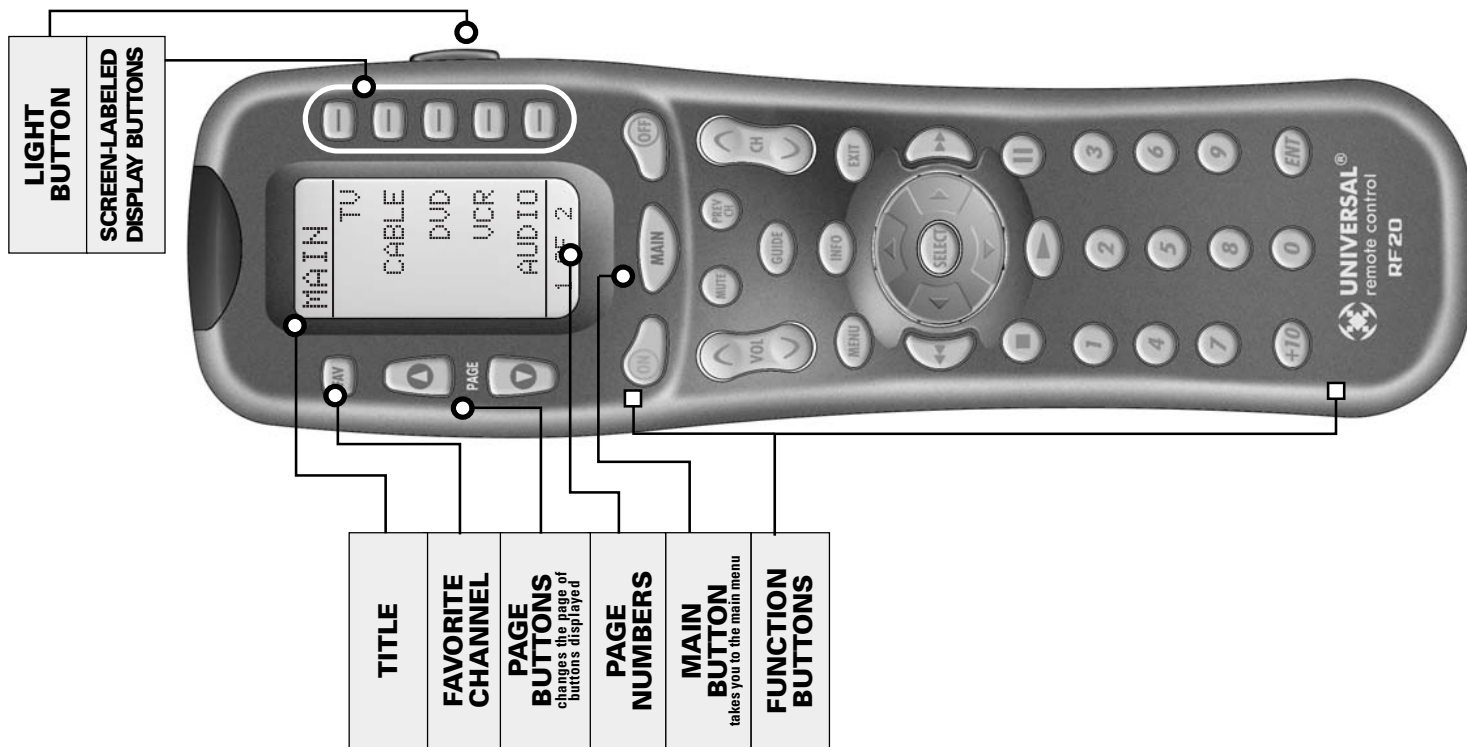
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MASTERCONTROL™ RF10 Owner's Manual
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Warning: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

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.

LOCATION OF CONTROLS	Keypad Layout	3
GETTING STARTED	Overview	4
	Battery Installation	4
	Activating Component Commands	5
	The SHIFT Button	6
	The LIGHT Button	6
BASIC SETUP	Overview	7
	Pre-Programmed Code Method	7
	Pre-Programmed Auto-Search Method	11
	Learning Method	13
	Transmitting (Busy Signal) Icon	16
	Child Lock Feature	16
ADVANCED SETUP	Customizing Component Names on the LCD Screen	17
	MacroPower™ Setup	19
	SimpleSound™ Setup & Other 'Punch Throughs'	21
	AUX Function: Programming an 8th Component	23
	Recalling Pre-programmed Setup Code Numbers	25
ERASING COMMANDS	Erasing Learned Button, Macro or Favorite Channel Commands	27
	Re-setting RF10 to Original Factory Default Settings	33
THE OPTIONAL POWERBLASTER™	PowerBlaster™	35
PRE-PROGRAMMED CODE NOTES	Pre-Programmed Code Notes	37
PRE-PROGRAMMED CODE TABLES	Pre-Programmed Code Tables	38
	TV	39
	CABLE	42
	DVD	44
	VCR	47
	AUDIO	49
	SAT	52
	CD	54
	AUX	56
COMMAND LOCATIONS	Location of commands	58
OTHER INFO	Frequently Asked Questions	67
	Specifications/Warranty	68



Getting Started-Overview

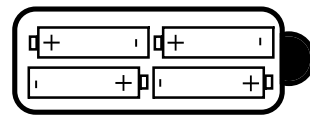
This is what MASTERCONTROL™ RF20 is all about!

The RF20 is designed to operate up to 10 different Audio/Video Components and is pre-programmed to operate virtually all brands of TV, VCR, DVD and CD Players, Cable Set Top Boxes, Satellite Receivers, TiVo and other DVRs, Audio Components, Tape Decks, Multimedia PCs, XM Radio, Ipod, X-Box, Lighting Controls and other custom installation products. It also offers an impressive lineup of special features designed to provide you with many time-saving conveniences and enhance your overall entertainment experience. However, we strongly recommend that you fully complete all of the Basic Setup steps before proceeding to customize your RF20 with any of the special advanced features.

Battery Installation

The very first step is to insert the four AAA batteries that are included in the package into the battery compartment located in the back of the remote. Just press the tab and lift off the cover. Please be sure to insert the batteries correctly as you see in the diagram. Remember, there is a positive and negative end to each battery and you can

tell by the + (positive) and - (negative) symbols. Once the batteries are correctly installed, replace the cover. Now you're ready to start!



Activating Component Commands – Simple, Easy, Intuitive

Once you've programmed RF20 for your Components, all you have to do to operate a specific Component is first, press the MAIN button. This will display Page 1 of the MAIN menu on the LCD screen. Page 1 of the MAIN menu displays five Components. Then, simply select the Component you want to operate by pressing the corresponding Screen-Labeled Component Display Button on the right side of the LCD Screen. As an example, if you press the TV Display Button, the display label at the top of the screen will change from MAIN to TV, and all the buttons on RF20 will work your TV. To operate another Component, simply press the MAIN button again to return to Page 1 of the

MAIN menu and select the next Component you want to operate.

If you don't see the Component you want to control on Page 1 of the MAIN menu, just use the PAGE (▲) (▼) buttons on the left side of the screen to bring up Page 2 of the MAIN menu which displays an additional five Components.

Each Component is provided with five pages of pre-labeled command display buttons (or space for additional command display buttons). Once again, simply use the PAGE (▲) (▼) buttons to take you to the next command page, or return you to the previous command page.

**TV DEVICE
BUTTON**

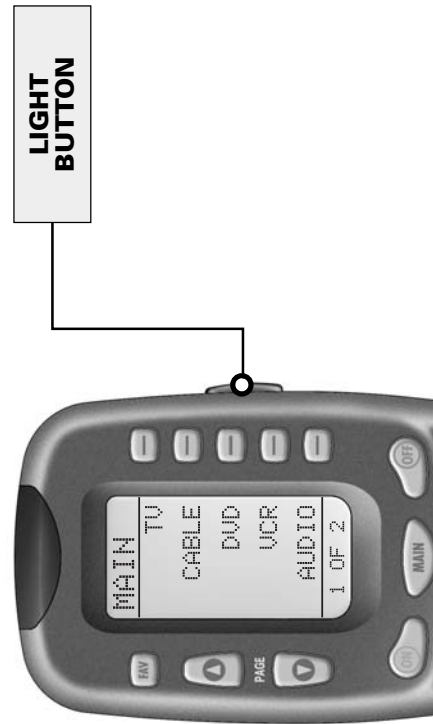
**MAIN
BUTTON**



Light Button

The fully backlit keypad makes the RF20 easy to use in the dark or dim lighting conditions. Simply press the LIGHT button to backlight all the keypad buttons and LCD screen. To turn off the backlight, press the LIGHT button again, or just wait ten seconds (the backlight automatically shuts itself off). Lights out!

Try it out!



Basic Setup - Overview

There are two ways to program the RF20:

- **The Pre-Programmed Code Method**
- **The Learning Method**

The Pre-Programmed Code Method allows you to set up all the buttons at once, so it's the fastest and easiest of the two methods. The Learning Method allows you to transfer functions from other remotes (old or new), one button at a time.

Pre-Programmed Code Method

STEP 1:

The pre-programmed 3-digit codes are found in the back of this Manual on page 44. The codes are listed by Component category (i.e., TV, VCR, DVD, etc.), then by brand name. For instance, if you want to locate a code for a Sony TV, first locate the TV category, and then look for the Sony brand.

Once you have located the 3-digit code (or in some cases, several code numbers) for the Component that you want to operate with your RF20, write them ALL down on a piece of note paper. It's important that you write down all the codes because only one code is going to work for you.

STEP 2:

Now, turn on the Component you want to program... let's say your TV to start. Look up your TV's manufacturer setup code from your reference list.

STEP 3:

Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD screen. This signals that you are now in setup mode.

IMPORTANT:

You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.



STEP 4:

Press the P-PRO display button to select the Pre-Programmed Method.

STEP 5:

Press the Component display button you want to program. For example: If you want to setup the TV Component button, press the TV Component display button. The screen will flash "FROM - TABLE".

STEP 6:

In this step you verify the type of component you plan to operate with this component button. For example: If you plan to operate the TV component with the TV button, simply press the TV display button once again. However, if for example you are setting up AUX to operate a second DVD Player, you would first need to press AUX in Step 5, and then DVD in Step 6.



**P-PRO
BUTTON**



**FIRST FIVE
DEVICE NAMES
PAGE
BUTTONS**



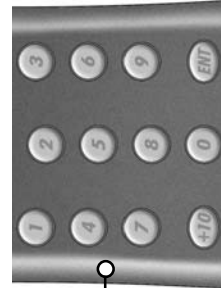
NOTE:

If the Component fails to turn off after you have entered all the code numbers listed for your brand, you can scan through all the other code numbers that are pre-loaded into the RF20 for that Component (in this case TV) by using the UP or DOWN display buttons on the screen. (There is a chance that your Component was actually manufactured by another brand.) However, most of the code tables are so large that it is usually faster to use the Learning Method on Page 15.

STEP 7:

Point the RF20 toward the Component you want to program, (in this example, TV), and punch in the 3-digit code and punch down for that that you wrote down for that specific Component. Use the Number buttons 0-9 on the remote to punch in the code. If the 3-digit code number that you just punched in is correct, the Component will turn off.

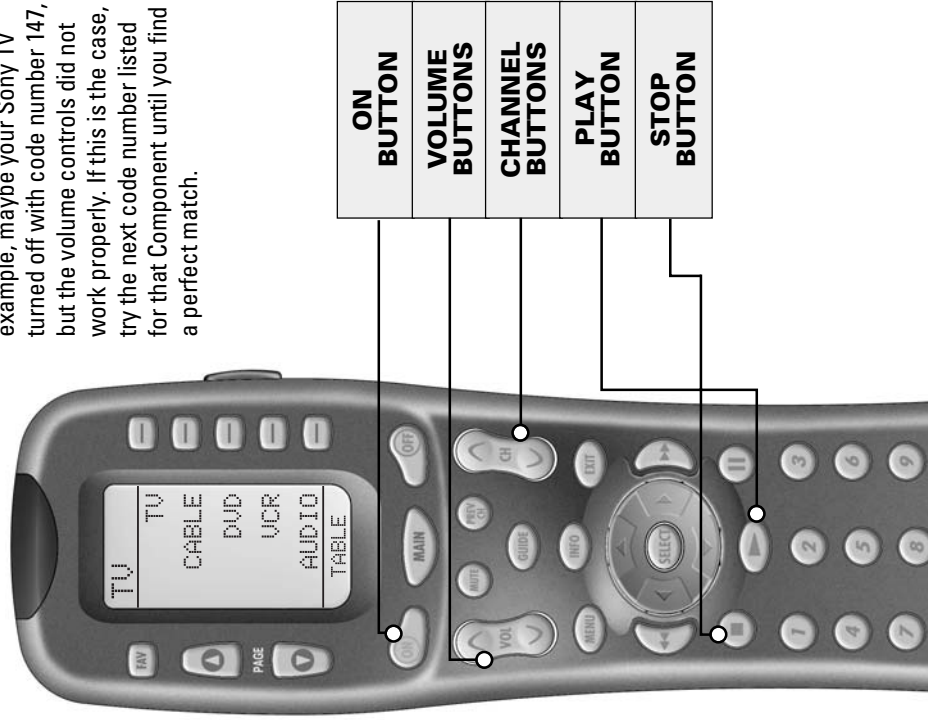
If the Component does not turn off, continue entering code numbers from your list until the Component turns off. Some brands have several possible code numbers.

**NUMBER
BUTTONS****STEP 8:**

When the Component turns off, press the ON button to turn the Component back on. Now you can test the Volume and Channel buttons (for TV), or PLAY and STOP (for VCR and DVD) to make sure they all work. If any of the buttons do not work properly, you need to find a new correct code. For

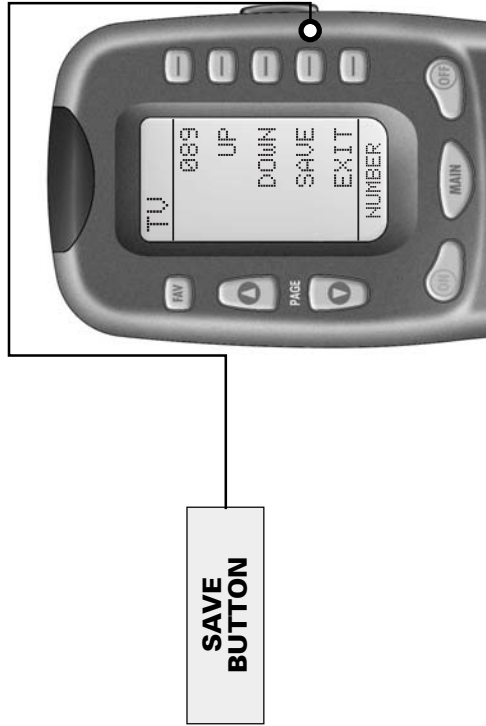
**UP & DOWN
BUTTONS**

example, maybe your Sony TV turned off with code number 147, but the volume controls did not work properly. If this is the case, try the next code number listed for that Component until you find a perfect match.

**ON
BUTTON****VOLUME
BUTTONS****CHANNEL
BUTTONS****PLAY
BUTTON****STOP
BUTTON****BASIC SETUP****BASIC SETUP**

STEP 9:

Once you have found the right code, save the code number by pressing the SAVE button that appears on the LCD screen. The LCD screen will blink "SAVED" two times, signaling that the code number has been successfully saved.

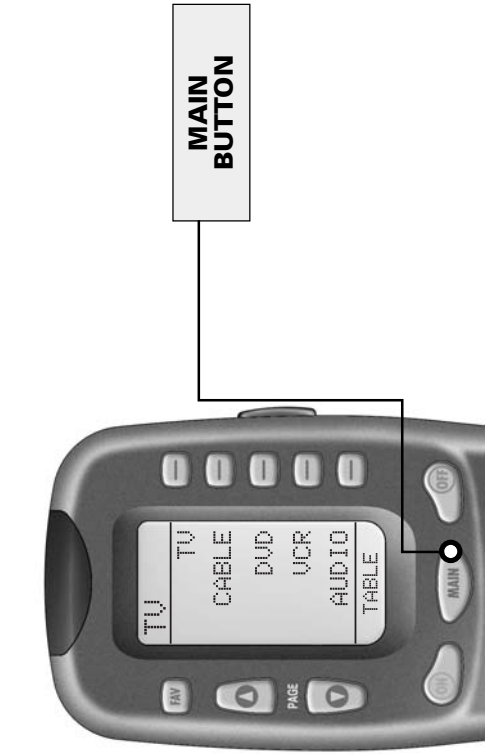


STEP 10:

Exit SETUP mode by pressing the MAIN button two times. When the LCD screen displays MAIN, you are back in normal operating mode.

NOW, PROGRAM THE REST OF YOUR COMPONENTS BY REPEATING STEPS 1 THROUGH 9. IN MOST SYSTEMS, YOU CAN FINISH BASIC SETUP IN JUST A FEW MINUTES AND PUT ALL YOUR OLD REMOTES AWAY.

IF YOU ARE STILL MISSING COMMANDS TO CONTROL ANY OF YOUR COMPONENTS, USE THE LEARNING METHOD ON PAGE 15.



Learning Method

The RF20 can actually 'learn' commands from other remote controls (old or new), one-button-at-a-time, so it will never become obsolete. RF20 is the last remote you'll ever need! Just follow these simple steps:



STEP 1:

Line-up the RF20 with the other remote control, head-to-head, one or two inches apart.

STEP 2:

On the RF20, press and hold the MAIN and ENT (Enter) buttons at the same time for approximately three seconds, until the word "SETUP" is displayed at the top of the LCD screen. This signals you are now in SETUP mode.

IMPORTANT

You now have 30 seconds to perform the next step while you are in **SETUP** mode. If you don't press a button within 30 seconds, **SETUP** will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

**MAIN
BUTTON**

**ENTER
BUTTON**



STEP 3:

Press the LEARN display button on the LCD screen. The top of the screen will change to "LEARN" and display the five Components from Page 1 of the MAIN menu.



To display Page 2 of the MAIN menu that lists an additional five Components, simply press the PAGE (▲) (▼) buttons.

STEP 4:

Select the Component you want to teach commands to by pressing that Component display button on the LCD screen (in this example, TV). The top of the TV screen will change to "TV".



NOTE: If you want to teach any command to a Component button, press the desired Component display button once the top of the screen displays "MAIN", by pressing the PAGE button. The top of the screen will change to "READY". Then go to STEP 6.

**LEARN
BUTTON**



BASIC SETUP

STEP 5:

Press any button on the RF20 that you want to teach a command to. The top of the screen will change to "READY" and the bottom of the screen will display the button name you pressed.



NOTE: If you don't see the display button you would like to teach on the LCD screen, use the PAGE (▲) (▼) buttons. The only buttons you can't teach are the PAGE and MAIN buttons.

STEP 6:

Press and hold the button on the other remote control that you want to 'teach' to the RF20 until the LCD display on the RF20 changes to either "GOOD" or "FAILED". If the "GOOD" label appears on top of the display, you were successful. If the "FAILED" label appears on top of the display, try 'teaching' the same button to the RF20 once again by repeating STEPS 5 and 6.

**STEP 7:**

Now, continue to teach the RF20 any other commands from your other remotes by repeating STEPS 4 through 6 (to go back to STEP 4, simply press MAIN once).

STEP 8:

Once you have completed teaching all the button commands to the RF20, return to normal operation by pressing the MAIN button twice.

NOTE: Test all your new commands. If any of them don't work, try the Learning Method again, following these suggestions:

- Move to another room. Plasma TVs, sunlight, halogen or quartz lighting can interfere with the learning process.
- Even though the old remote seems to be working fine, put in fresh alkaline batteries.
- Gradually vary the distance between the remote controls. Try 1", 2" and so on, up to 4 feet.
- Try tapping the button on your old remote instead of pressing and holding it during the learning process.

Some additional Information regarding the Learning Process:

- Learned functions override any existing pre-programmed functions on the remote control.
- All buttons can be learned except for the PAGE, MAIN and LIGHT buttons.
- Learned functions are automatically erased when a new function is learned on the same button.
- Learned functions are retained even after a different Setup Code Number is programmed into the remote.
- To return to an original pre-programmed function, a learned function must be erased.

BASIC SETUP**BASIC SETUP**

Transmitting (Busy Signal) Icon

When a command is being transmitted, an icon will appear in the upper right corner of the LCD screen. This indicates that a signal is being sent. This is particularly useful when setting up Macros and FAVs, since it flashes with every step of a sequence of commands.



Customizing Your RF20 with Special Advanced Features

After you've finished all your basic setup, you can choose to make operation easier by customizing the RF20 just the way you want, using the Special Advanced Setup Features described in this section.

Customizing the LCD Screen

You can easily edit or change the name of any of the display buttons (including Favorite Channels) on the LCD screen by following these steps:

CHILD LOCK FEATURE

This 'child-lock' feature prevents the unauthorized use of the remote control by children. It blocks all operations of the remote control.

To Activate:

Press the +10 and ENT (Enter) buttons simultaneously for 3 seconds. The bottom of the LCD will blink "LOCKED" three times and then display "LOCKED".

To Return to Normal Operation:

Press the +10 and ENT (Enter) buttons simultaneously again for 3 seconds. The LCD will display the last use mode.

CUSTOMIZING

STEP 1:

Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD screen. This signals that you are now in setup mode.

IMPORTANT: You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

STEP 3:

Press the TEXT display button. The screen will display the list of Components and "EDIT" will appear at the top of the screen.

STEP 4:

Navigate to the Component and page where there is a button label you want to EDIT, selecting between the FAV, MAIN, COMPONENT display buttons; then using the PAGE button.

NOTE: If you wish to change the name of a Component button, press the Page (▲) Up button twice. The top of the display will change to MAIN, and you can navigate to MAIN page 1 or page 2 before going on to Step 5.

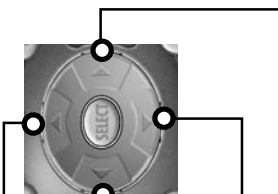
STEP 2:

Press the EDIT display button. The LCD display will change to the EDIT menu.

STEP 5:

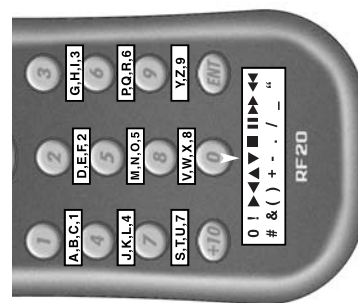
Press the button you wish to edit. The first character space of your button label will start to blink.

UP CURSOR Button deletes all text	LEFT CURSOR Moves blinking character left	DOWN CURSOR deletes the currently blinking character	RIGHT CURSOR Moves blinking character right	BLINKING CHARACTER
---	---	--	---	---------------------------



STEP 6:

Change the character by using any of the number keys. Each press of the same number button selects the next character of that number's group, as shown in the diagram below.



STEP 7:

Once the character you want appears, move to the next space by pressing the Right cursor button.

STEP 8:

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

To change any other button labels on the same Component, press the next button, then repeat steps 6-8. If you wish to edit a button on another Component, press the MAIN button once, then repeat Steps 4-8.

STEP 9:

Once you've finished editing buttons, press the MAIN button four times to return to normal operation.

Favorite Channel Setup

This is one of RF20's most desirable features. Once it's set up, you can select up to 40 favorite channels with the press of a button - without the need to remember or type in a channel number. Let the channel surfing begin!

To access Favorite Channel listings, simply press the FAV button to display Page 1 of Favorite Channel listings. There are eight pages of Favorite Channels, with five Channels on each page, for a total of 40 Channels. Just use the PAGE (▲) (▼) buttons to locate the Channel you want to setup. Each Channel can be setup to be instantly selected with the press of one button.

To setup a Favorite Channel button, follow these steps:

STEP 1:

Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD screen. This signals that you are now in setup mode.

IMPORTANT:

You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

STEP 2:

Press the FAV display button.

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

STEP 3:

Use the PAGE (▲) (▼) buttons until you locate the name (i.e., ABC, CBS, NBC) of the favorite channel you want to setup.

STEP 4:

Press the favorite channel display button you want to setup. The top of the screen will change to show the channel name. The bottom of the screen displays "STEP0", indicating that you have not entered the channel number yet.

STEP 5:

Press either the TV, SAT or CABLE Component button (select the Component you use to enter channel numbers).

STEP 6:

Press each of the number buttons for the channel.

Note: If a number is repeated when setting the channel (for example, channel "33" or "522"), it is usually best to set a half second delay in between the identical numbers by pressing the (II) PAUSE button. Each press of the PAUSE button increases the delay by a half second.

FAV
BUTTON



PAUSE
BUTTON

NOTE: Some brands of television require an ENT (Enter) command after the channel numbers.



MacroPower™ Setup

MacroPower™ is a unique feature that enables you to turn all of your Components ON or OFF, at the same time, simply with the press of one button.

We call that a "Macro". What would normally take multiple remotes and button pushes, the RF20 can accomplish with the press of one button. In addition to the Power ON or OFF buttons, any of the Display buttons (on any Component or Page) can be set to be Macro buttons as well. Feel the power!

To setup a Power ON macro button that will turn ON several components at the same time (for example, TV, VCR and CABLE), follow these easy steps:

STEP 7:

Press the LIGHT button after you enter the channel number. A new screen appears displaying SAVE, UNDO or EXIT.

STEP 8:

To save the channel you entered, press the SAVE display button. The UNDO display button lets you erase the last entry. The EXIT display button erases all entries for this button.

STEP 9:

When you are finished setting up Favorite Channel buttons, press the MAIN button twice to return to normal operation.

**SAVE
BUTTON**



STEP 1:

Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD touch screen. This signals that you are now in setup mode.

IMPORTANT: You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

STEP 4:

Press the first component display button you want the Macro to turn on (in this example, TV) and "TV" will display at the top of the screen and "STEP 1" at the bottom.

STEP 5:

Then, press the ON button to confirm the command and "STEP 2" will display at the bottom of the screen. (NOTE: Whenever a button is pressed, another Macro step is counted and displayed at the bottom of the screen.)

STEP 6:

Now, press the MAIN button to return to the Main Component listing. ("STEP 3" will display at the bottom of the screen.)

STEP 2:

Press the MACRO display button on the LCD screen. The top of the screen will display "MACRO". The bottom of the display will flash "SELECT".

STEP 3:

Press the ON button. "ON" will display at the top of the LCD screen. "STEP0" will display at the bottom of the screen indicating that no macro steps have been entered yet.

STEP 7:

Press the second component display button that you want the Macro to turn on (in this example, VCR) and "VCR" will display at the top of the screen. ("STEP 4" will display at the bottom of the screen.)

STEP 8:

Then, press the ON button to confirm the command. ("STEP 5" will display at the bottom of the screen.)

STEP 9:

Now, press the MAIN button to return to the Main Component listing. ("STEP 6" will display at the bottom of the screen.)

STEP 10:

Press the third component display button that you want the Macro to turn on (in this example, CABLE) and "CABLE" will display at the top of the screen. ("STEP 7" will display at the bottom of the screen.)

STEP 11:

Then, press the ON button to confirm the command. ("STEP 8" will display at the bottom of the screen.)

NOTE : 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!

You can also program delays in between commands by pressing the (II) PAUSE button. Each press adds half a second to the delay.

STEP 12:

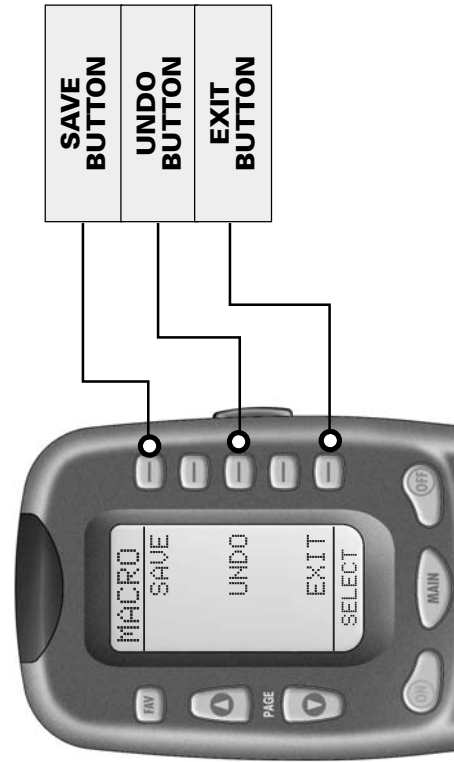
Press the LIGHT button to end your macro. A new screen will appear:

STEP 13:

If you are satisfied with your macro, press the SAVE display button. The UNDO display button lets you erase the last step. The EXIT display button erases all the macro steps.

STEP 14:

Press the MAIN button twice to return to normal operation.



Advanced Macro Options:

SETTING UP A POWER OFF MACRO:

Simply follow the same steps as outlined above, except press the OFF button in place of the ON button.

SETTING A COMPONENT BUTTON AS MACRO:

If you wish to set one of the Component buttons as a macro, in STEP 3, press the Page Up button twice. The top of the display will change to MAIN, and you can navigate to MAIN page 1 or page 2. Press the Component button you want to set as a Macro button. The top of the screen will display the button label you selected. Select the Component and Page that has a button you want in your Macro using the MAIN, Component and Page buttons. Simply press the button(s) with the command(s) you want in your Macro. Then complete and save the Macro by following STEPS 12 and 13 as outlined above.

PROGRAMMING A "PRESS & HOLD" MACRO:

Another option for Component button macros is to only send the macro if the button is pressed and held. This is setup by entering a delay as the first step of the macro. The amount of delay determines how long the user must press the button before the macro is sent. The advantage of this option is that a normal press of the COMPONENT button will simply switch Components without sending the macro command.

SimpleSound™ Setup & Other 'Punch Throughs'

SimpleSound™ is a dynamic feature that gives you total volume control over all the Components in your system, even those without their own built-in volume control, such as TiVo, DVD and VCR... saving you the hassle and inconvenience of constantly needing to switch between Component modes on the remote. With SimpleSound™, you can set the RF20's volume control buttons to always control the sound in your system, even when you're in VCR or DVD mode, without switching back to AUDIO or TV. Even more exciting, SimpleSound™ is what is called a 'Punch Through' feature and is not limited strictly to volume control. Click and enjoy!

STEP 1:

In a basic home entertainment system, the sound may come from your TV. In a more advanced system, the sound may come from your audio Component such as a Surround Sound Receiver or Home Theatre system. So, first, you need to identify which Component you want to use in your system for sound.

time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD screen. This signals that you are now in setup mode.

IMPORTANT: You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

STEP 3:

Press the PAGE (▲) UP button to display Page 2 of the Setup Menu on the LCD screen. Press the PUNCH display button.

STEP 2:

Press and hold the MAIN and ENT (Enter) buttons at the same



STEP 4:

Then press the VOL (Volume) display button. The screen will display "VOL" at the top. This sets up the group of three buttons (Volume Up, Volume Down and Mute) in one action!

**VOLUME
BUTTON**

The bottom of the display flashes "PUNCH TO". Press the button for the Component that doesn't have volume control commands yet (i.e., DVD). This is the Component you are going to PUNCH TO for the volume and mute commands.

NOTE: If you want to PUNCH TO the MAIN Component, press the POWER OFF button at this time.

STEP 5:

The bottom of the display will then flash "PUNCH FROM". Now select the Component that has the volume commands you want to use (i.e., TV for systems using the TV speakers, AUDIO for systems with surround sound receivers). The bottom of the display will flash "SAVED".

STEP 6:

Repeat STEPS 4-5 until all your Components operate the volume perfectly.

STEP 7:

Press the MAIN button twice to return to normal operating mode and test your SimpleSound™ settings.

NOTE: The Punch Through feature is not limited to volume and can also be applied to channel selection or other functions. If you find yourself switching to a particular Component frequently to use a group of controls, consider using Punch Through for another group, as listed here:

VOL	Volume Up, Volume Down and Mute
CH	Channel Up, Channel Down, Previous Ch and Channel (0-9) buttons.
PLAY	Play, Stop, Pause, Rewind and Fast Forward
VOD	Guide, Menu, Info, Exit, Up, Down, Left, Right, Select

Simply perform the steps outlined above, but in STEP 4, press one of the control options (CH, PLAY or VOD).

Setting Backlight Options

You can customize the backlighting feature to suit your specific preferences by following these simple steps:

Adjusting Length of Backlight Time

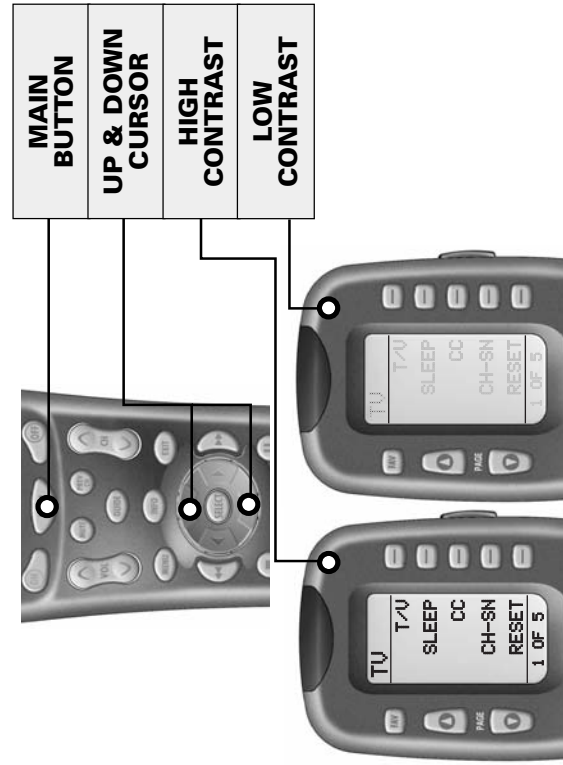
You can adjust the amount of time that the RF20 backlight stays on by entering the SETUP mode and proceeding to page 2 (using the PAGE (▲) UP button), then pressing the LIGHT display button on the LCD screen (not the Backlight button). Then enter the amount of time you would like the light to stay on using the number pad (0-99 seconds). After making your selection, press the SAVE display button.

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.

Turning OFF Backlighting

If you don't want backlighting at all (this extends battery life), press the ON display button that appears on the screen. The ON will change to OFF. Press the SAVE display button. Exit the setup mode by pressing the MAIN button.



Hiding and Adding Pages

Each of your RF20 Components actually contains eight pages. However, only five pages are visible in the factory default setting. Three page are hidden in each Component. If you wish to use the hidden pages, you can ADD it. If you don't want to use some of the existing pages, you can HIDE them. You can add or hide pages on Components OR on your favorite channel pages using this simple process:

NOTE: Be sure to program your Macros before you hide pages with potential macros in them. You can't access hidden pages during macro setup. However, after you finish Macro setup, you can hide pages without affecting operation of your macros.

STEP 1:

Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD screen. This signals that you are now in setup mode.

IMPORTANT: You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

EDIT BUTTON



PAGE BUTTON



STEP 2:

Press the EDIT display button on the LCD screen.

STEP 3:

Press the PAGE display button once the screen changes to EDIT mode.



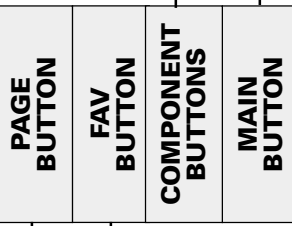
This page is hidden. To ADD it, press the LIGHT button.



This page is visible. To HIDE it, press the LIGHT button.

STEP 4:

"PAGE" appears at the top of the screen. Now, you can navigate to any page, using the MAIN, COMPONENT, FAV, and PAGE display buttons.



STEP 5:

When you select a page, the top of the screen indicates whether you want to "ADD?" or "HIDE?" the page displayed. When you want to change a page's visibility (i.e., either ADD or HIDE), simply press the LIGHT button.

STEP 6:

You can continue to ADD or HIDE pages on other Components by repeating Steps 4 and 5.

STEP 7:

When you are finished adding and hiding pages, press the MAIN button four times to return to normal operation.

Recalling Pre-Programmed Setup Code Numbers

In case you didn't write down the Pre-Programmed Code Numbers that you used to set up your RF20, you can easily recall them using this simple process:

STEP 1:

Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD touch screen. This signals that you are now in setup mode.

IMPORTANT: You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

STEP 2:

Go to Page 2 of the Setup Menu by pressing the PAGE (▲) button.

STEP 3:

Press the RECAL display button on the LCD screen. The display will change to the Recall screens. The screen automatically switches between four screens, alternately flashing Page 1 components and code numbers, then Page 2 components and code numbers.

Cloning Other RF20s

If you are fortunate enough to own more than one RF20, you'll be happy to know that you can easily copy and transfer all the setup from one RF20 to another. Just follow these easy steps:



STEP 1:

For both the programmed RF20 that you want to clone, and unprogrammed RF20, press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of their respective LCD screens. This signals that both remotes are now in setup mode.

IMPORTANT: You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

STEP 2:

Press a PAGE button on each remote to bring up Page 2 of Setup and display the CLONE button.

STEP 3:

Press the CLONE button on each remote.

STEP 4:

Align the two RF20s head-to-head, about an inch apart.

STEP 5:

Press the RECV display button on the unprogrammed RF20 that you want to setup by cloning.

STEP 6:

Press the SEND display button on the programmed RF20 that you want to clone.

STEP 7:

Press the START button on the unprogrammed RF20, and then press the START button on the programmed RF20 that you want to clone.

NOTE: Cloning typically takes about 40 seconds. After successful cloning is completed, the newly cloned RF20 will flash "GOOD".

STEP 8:

Return to normal operation by pressing the MAIN button twice.

Erasing Commands - Overview

You can erase an individual button with a learned command, a macro or a favorite channel. You can erase an ENTIRE Component's learned command or macro buttons. You can also erase ALL your learned commands on all Components or all your macros or favorite channels everywhere.

If you really want a fresh start, it is possible to reset everything to the factory default settings.

Erasing Learned Buttons, Macros or Favorite Channels

STEP 1:

Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately 3 seconds, until the word "SETUP" is displayed at the top of the LCD screen. This signals that you are now in setup mode.

IMPORTANT: You now have 30 seconds to perform the next step while you are in SETUP mode. If you don't press a button within 30 seconds, SETUP will disappear from the screen, signaling that you have exited setup mode and you will need to start over.

STEP 2:

Press a PAGE button to display Page 2 of Setup.

STEP 3:

Press the ERASE display button on the LCD screen.

STEP 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 RF20)

DEVICE - Erases all learned or Macro buttons in a single Component (NOTE: This option is not available for FAVs.)

KEY - Erases one button only.



ERASING COMMANDS

STEP 5:

If you press ALL, the RF20 displays a "SURE?" button. After the SURE button is pressed, all the buttons will be erased.

If you press DEVICE, a list of Components will appear. Press the Component button that you wish to erase. The bottom of the screen will flash ERASE twice, then ERASED.

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

STEP 6:

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



**SURE
BUTTON**

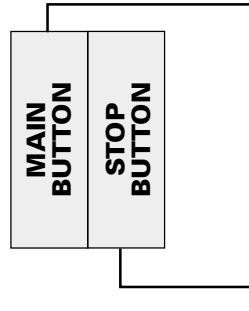
Re-setting RF20 to Original Factory Default Settings

If you want to start with a clean slate, you can re-set the RF20 its original factory default settings by performing the following steps.

NOTE: This process will essentially erase EVERYTHING you have programmed into the RF20.

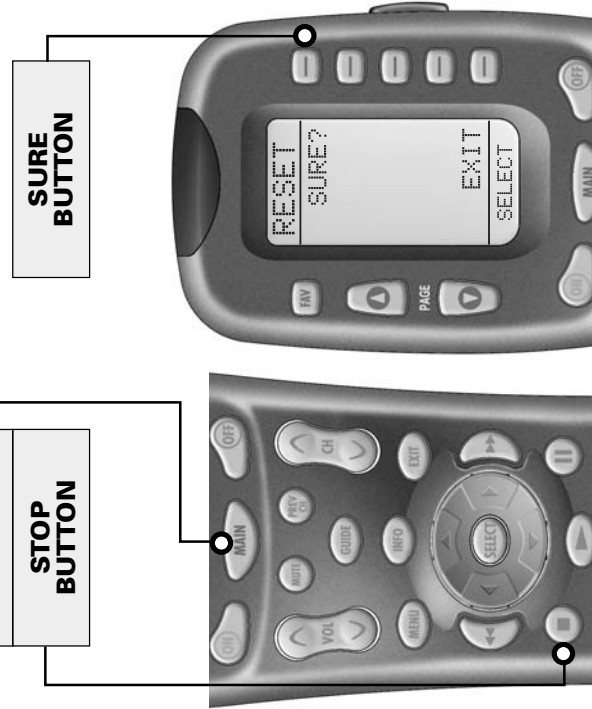
STEP 1:

Press and hold both the MAIN and the STOP buttons for 10 seconds.



STEP 2:

After 10 seconds, the RESET screen appears. Press the ALL button. The RF20 will display a "SURE?" button. Press the "SURE?" button. Press the SURE button to erase all of your settings and return to the factory default setup



ERASING COMMANDS

The Optional PowerBlaster™ (for 'barrier-free' RF control) [Sold separately]

Of all the fabulous RF20 features, this is probably the most exciting. When used in combination with the optional PowerBlaster™, the RF20 becomes an amazing remote control powerhouse that sends multi-directional RF (Radio Frequency) signals that pass through walls, doors and floors - both indoors and outdoors.

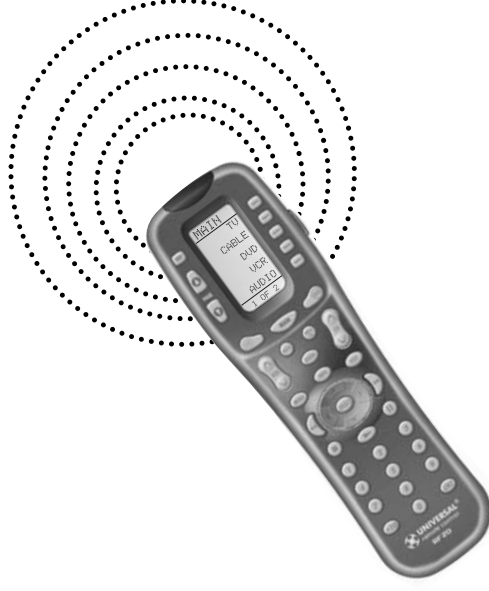
This changes everything! It enables you to control Components that are completely out-of-sight, up to 100' away. The PowerBlaster™ picks up RF20's radio frequency signals from any direction, regardless of distance, so RF20 doesn't need to be pointed directly at any Component. Just imagine - no more pointing! Now you can close your entertainment center doors, hide your Components, and still control them with ease. Control outdoor speakers on your patio. Control your Components anywhere!

One of the best things about this is -- nothing has to be done to the RF20 for this feature to work. Every time you press a button on the RF20, it sends both a standard IR (Infrared Command) AND an RF (Radio Frequency) signal. If you install the PowerBlaster™ kit, it will automatically receive RF20's radio signals and translate them into the infrared commands that control your Components.

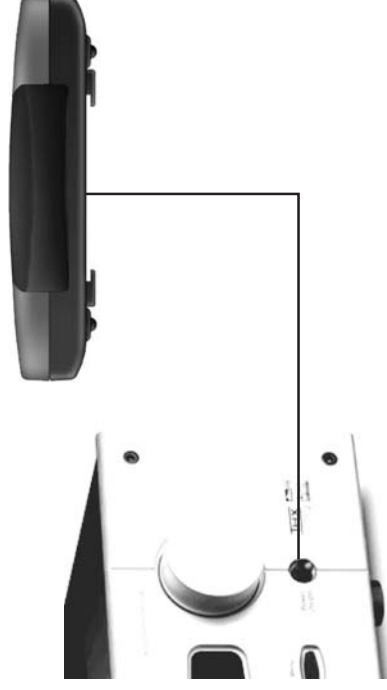
NOTE: The RF20's radio signals will not control Components directly. You must have a PowerBlaster™ to receive the RF20's radio signals. Components that came with "no pointing" radio remote controls cannot be operated by the RF20 unless the Component can be switched to standard IR (Infrared Control) via its internal menus. Some remote control ceiling fans are radio only and cannot be operated by the RF20.

THE POWER BLASTER

The RF20 sends radio signal to the PowerBlaster™, which is a radio receiver



The PowerBlaster™ converts radio signals 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 PowerBlaster™ kit) affix to the front panels of your Components. The flashers relay infrared commands to Components out-of-sight of the PowerBlaster's front blaster. The flashers plug into PowerBlaster's 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	_____
CD	_____
SAT	_____
TV	_____
VCR	_____
CABLE	_____
AUX	_____
LIGHT	_____
TAPE	_____
PHONO	_____
TV2	_____
VCR2	_____
DVR	_____
LDP	_____
XM RADIO	_____
IPOD	_____
X-BOX	_____

Pre-Programmed Code Tables

The RF20's Pre-Programmed code library is divided into categories (TV, VCR, AUX, etc.). Each category actually includes many types of Components. For example, the VCR category includes TV/VCR combo units.

Within each category, the code numbers are listed in rows by brand (Sony, Panasonic, B & K, etc.). Some brands have more than one three digit code for you to try. Just circle the correct row and refer to it while you setup (step by step instructions for using Pre-Programmed codes are found on page 7).

TV	TVs, Plasmas, Projectors and Monitors
CABLE	Cable TVs and Web TVs
DVD	DVD Players and TV/DVD Combos
VCR	VCRs and TV/VCR Combos
AUDIO	Amps, Preamps, A/V Receivers and XM Radios
SAT	Satellite Receivers
CD	CD Players and CD Changers
DVR	TiVo, Replay and other DVR's
AUX	Tape Decks, Lighting Controls, Multimedia PCs, Xbox, iPod and Custom Installation Products

BRAND	CODE NUMBERS	BRAND	CODE NUMBERS
ADMIRAL	072 081 161 160	KENWOOD	197 070
ADVENT	247	KLOSS	002 059
AKAI	197 146 248	KMC	143
A MARK	112 143	KTV	043 197 143 154
AMPRO	167 073 157 183	LG	113 116 102 004 106 112 119 127 143 243 284 363 365
AMSTRAD	052	LOGENET	072
ANAM	043 054 056 080 112 131	LOEWE	164
AOC	197 004 112 058	LOGIK	072
APEX DIGITAL	006 310	LUXMAN	004
AUDIOVOX	076 273	LXI	166 007 015 052 081 160 164
BARCO	233	MAGNAVOX	164 059 197 003 060 061 004 063 064 127 022 160 094 239
BLAUPUNKT	088		226 273
BROKSONIC	238	MARANTZ	197 164 184
CAIRN	201	MATSUI	164
CANDLE	197 002 003 004	MAXENT	242
CAPEHART	058	MEMOREX	007 072 004
CETRONIC	043	METZ	088
CITIZEN	197 002 003 004 043 101 103 143	MGA	197 004 024 028 042
CLASSIC	043	MINERVA	088
CONCERTO	004	mitsubishi	109 124 024 004 028 040 042 146 191
CONTEC	043 050 051	MTC	197 004 062 101
CORONADO	143	NAD	015 025
CRAIG	043 054	NEC	132 130 134 197 040 016 024 056 019 236 237 262 272
CROWN	043 143	NIKEI	043
CURTIS MATHES	197 101 004 143	NUVISION	351
CXC	043	ONKING	043
DAEWOO	004 016 043 044 076 103 114 125 127 143	ONWA	043
DAYTRON	004 143	OPTONICA	019 081
DELL	319 320 321	OPTOMA	265 270
DREAMVISION	235 345	ORION	096
DWIN	177 257	PANASONIC	034 056 080 092 164 208
DYNASTY	043	PHILCO	197 003 059 060 064 164 004 024 056 063
DYNATECH	062	PHILIPS	164 005 093 038 197 003 004 059 127 184 206 239 259
EIKI	187	PIONEER	135 025 197 018 023 116 190 234 335
ELECTROHOME	143 024 076 196	POLAROID	138 268 328 353 354 356 388
EMERSON	028 048 043 155 005 197 004 047 050 051 076 096 143 151	PORTLAND	004 143
	153 154	PROSCAN	144 160 161 165 167
EPSON	324	PROTON	004 131 058 143 171 173 193
ESA	323	QUASAR	034 056 092
FISHER	007 057	RADIO SHACK	019 004 143 043 127
FUJITSU	198 246 346	RCA	160 165 065 156 144 161 197 004 024 056 152 023 074 333
FUNAI	028 043	REALISTIC	007 019 043 047
FUTURETECH	043	ROCTEC	186
GATEWAY	242 268	RUNCO	168 169 178 179 180 181 182 183 073 157 340
GE	160 144 165 073 197 008 009 034 056 074 130 155 161 004	SAMPO	197 058 004 202
	091 157 183	SAMSUNG	050 089 101 105 004 127 143 160 228 229 258
GOLDSTAR	113 116 102 004 106 112 119 127 143	SANYO	166 007 020 053 057 082 187
HALL MARK	004	SCEPTRE	276
HANNSPREE	381	SCOTT	028 043 004 048 143
HITACHI	011 163 166 004 009 010 012 023 075 143 158 072	SEARS	015 030 004 007 028 057 143 094 160 082 165 166
HP	316 327 378	SELECO	189 200 205 227
HYUNDAI	337 338	SHARP	081 019 014 170 028 029 004 022 143 175 251
INFINITY	164	SIEMENS	088
INFOCUS	230 330 333	SIM2	189 200 205 227
INSIGNIA	350	SIGNATURE	072
JBL	164	SOLE	231 232
JCPENNEY	004 024 197 008 009 030 065 101 143 156 160	SONY	070 139 147 126 185 194 085 213 271 279
JENSEN	013	SOUNDESIGN	028 004 003 043
JVC	038 034 070 083 145 199 210 240 241	SPECTRICON	112
KEC	043	SSS	004 043

BRAND	CODE NUMBERS	BRAND	CODE NUMBERS
TV		TV	

BRAND

CODE NUMBERS

BRAND

CODE NUMBERS

DVD

CABLE / WEBCV

REGAL
REGENCY
RODGERS
SAMSUNG
SCIENTIFIC ATLANTA
SEREN
SERVICE ELECTRIC
SHAW
SIGECOM
SONY
SPRUCER
STARCOM
STARGATE
SUSQUEHANNA
TIME WARNER
TOCOM
TOSHIBA
UNITED CABLE
UNIVERSAL
VIDEOTRON
VIEWSTAR
WIDE OPEN WEST
ZENITH

049 050
057
043
030
043 011 003 041 042 045 046
043
074
074
043
096 108
047 078
002 004 008 009
008 030 097 104
043 074
043 074
039 040 056
052
004 053
005 007 014 032 035
043
012 015 018 086 087 088 089
043 099
052 060 093 100

AIWA
ALPINE
APEX DIGITAL
ARCAM
CAMBRIDGE AUDIO
CARY AUDIO DESIGN
CLASSE
COBY
DENON
FUNAI
GATEWAT
GE
GO VIDEO
HARMAN KARDON
HITACHI
ILO
INTEGRA
JVC
KENWOOD
KISS
KLH
KRELL
LEXICON
LG
LITEON
MAGNAVOX
MALATA
MARANTZ
MERIDIAN
MITSUBISHI
MYRYAD
NAD
NAKAMICHI
ONKYO
OPPO
PANASONIC
PHILIPS
PIONEER
POLAROID
PRIMARE
PROCEED
PROSCAN
RCA
RUTECH
ROTEL
SAMSUNG
SANSUI
SANYO
SENSORY SCIENCE
SHARP
SONY
SYLVANIA
SYMPHONIC
TAG MCLAREN
TATUNG
TEAC
THOMPSON
THULE
TOSHIBA
VENTURER

146
098
087 111 115 112 116
122
215
174
167
258
007 080 173
143
175
026 027
137 218 220 221 222
084 140
101
268
142 180
012
151
179 279
135
104
148
091 057 074
264 265
066 096
267
083 095
153
017
102 134
088 155
103
076 035 180
266
021 042 138 139 144 150
066 083 095 105 166
023 092 099 107 108 131
233 234 237
193 194
086
026 027
026 027
269
204
056 070 119 165 170 137 159
154
147
222 223
094
033 118 145 126 191
143
143
156
102
270
026 027
177
035 034 130 141 164 188
149

BRAND	CODE NUMBERS	BRAND
AIWA	034 161	RCA
AKAI	016 146 043 046 124 125 142	REALISTIC
AMPRO	072	RICO
ANAM	031	RUNCO
AUDIO DYNAMICS	012 023 039 043	SALORA
BROOKSONIC	035 037 129	SAMSUNG
CANON	028 031	SANSUI
CAPEHART	108	SANYO
CRAIG	003 040 135	SCOTT
CURTIS MATHES	031 041	SEARS
DAEWOO	111 116 117 119 005 007 010 065 108 110 112	SHARP
DAYTRON	108	SHINTOM
DBX	012 023 039 043	SIGNATURE
DYNATECH	034 053	SONY
ELECTROHOME	059	SOUNDESIGN
EMERSON	006 029 035 017 025 027 031 034 036 037 046 101 129 131	STS
	138 153 162 116	SYLVANIA
FISHER	003 010 008 009	SYMPHONIC
FUNAI	034	TANDY
GE	031 072 147 063 107 109 144	TATUNG
GO VIDEO	132 136 155 040 115	TEAC
GOLDSTAR	101 106 114 013 020 012 123	TECHNICS
HARMAN KARDON	012 045	TEKNIKA
HITACHI	004 026 150 018 034 043 063 137 160 013	THOMAS
INSTANTREPLAY	031	TMK
JCL	031	TOSHIBA
JCPENNEY	012 013 015 040 066 101	TOTEVISION
JENSEN	043	UNITECH
JVC	048 043 130 150 055 060 012 031 050 152 166	VECTOR RESEARCH
KENWOOD	014 048 034 047	VICTOR
LG	101 106 114 013 020 012 123	VIDEO CONCEPTS
LLOYD	034	VIDEOSONIC
LXI	034 003 009 017 106	WARDS
MAGIN	040	YAMAHA
MAGNAVOX	067 031 034 068 041 156 164	ZENITH
MARANTZ	067 069 012 031 156	
MARTA	101	VCR-TV/VCR Combos
MATSUI	027 030	DAEWOO
MEI	031	EMERSON
MEMOREX	101 003 010 014 031 034 053 072 102 134 139	FUNAI
MGA	045 046 059	GOLDSTAR
MINOLTA	013 020	HITACHI
MITSUBISHI	059 061 151 013 020 045 046 051 142 049 168	JCPENNEY
MTC	034 040	LG
MULTITECH	024 034	LLOYD
NEC	012 023 039 043 048	MAGNAVOX
NORDMENDE	043	MEMOREX
OPTONICA	053 054	PANASONIC
ORION	025	PHILIPS
PANASONIC	066 070 145 083 133 140 157 163 07 4 167	RADIO SHACK
PENTAX	013 020 031 063	RCA
PHILCO	031 034 067	SEARS
PHILIPS	031 067 034 101 054 071 156	SONY
PILOT	101	SYLVANIA
PIONEER	021 013 048	SYMPHONIC
PORTLAND	108	THOMAS
PULSAR	072	ZENITH
QUARTZ	002 014	
QUASAR	066 145 075	
RADIO SHACK	123	

BRAND	CODE NUMBERS	BRAND	CODE NUMBERS
VCR			
			107 109 144 147 158 041 145 013 020 140 034 040
			003 008 010 014 031 034 040 053 054 101
			058
			148
			014
			102 104 113 115 112 120 032 040 066 107 109 122 125
			022 043 048 135
			003 010 007 014 134 102
			017 037 112 129 131
			003 008 010 014 081 013 101 009 017 073 112
			149 054 031 159 165
			024
			034
			056 057 058 077 052 003 078 076 031 149 154
			034
			013
			031 034 059 067
			034
			010 034
			039 043
			034 039 043
			031 070
			031 019 034 101
			034
			006
			112 131 079 008 059 047 082 013 042 081
			040 101
			040
			012
			048
			012 034 046 141
			040
			003 013 017 024 031 034 040 053 054 131
			012 034 039 043
			072 080 056 048 101 034 058
			005 117
			153
			034
			101 123
			034
			101
			101 123
			034
			034 067
			101
			070 167
			034 067
			123
			034
			101
			057 154
			067
			034
			034

BRAND

CODE NUMBERS

BRAND

CODE NUMBERS

AUDIO

CODE TABLES

CODE TABLES

ADC	007	KENWOOD	026 066 145 146 181 190 197 192 182 199 151 222 180 005
ADCOM	082 092 225 161 269 355 356 366		280 374 550
AIWA	170 018 104 202 203 213 211 188	KINERGETICS	220 140
AKAI	138 189	KLH	331
AMC	125 126 127 128 258 281 282 038	KOSS	216 573
AMEND	054	KRELL	150 072 376 384
AMX	196	KYOCERA	007
ANGSTROM	142	LEXICON	120 235 236 237 357 358 359 360 361 362 363 364
ANTHEM	335 336 337 338 339	LINN	124 377
ARCAM	141 418 419	LUXMAN	137 139 052 165 115 004 009
ATLANTIC TECHNOLOGY	342	LXI	076 056
AUDIO ACCESS	147	MAGNAVOX	086 164 152 208
AUDIO ALCHEMY	135	MARANTZ	006 028 031 040 063 185 186 251 265 119 289 296 492
AUDIO DESIGN	194 221 011	MCINTOSH	238 286
AUDIO EASE	021 196 207	MCS	076
AUDIO FILE	071	MERIDIAN	100 012 013
AUDIO MATRIX	167	MITSUBISHI	242 243 204
AUDIO SOURCE	273	MONDIAL	157 158 042 043 081 112
AUDIO TECHNICA	134	MYRYAD	276 293
B & K	096 097	NAD	186 113 283 478 479
BOSE	070 170 224 347 409 459 460 532	NAKAMICHI	111 244 245 172 183 287
BOSTON ACOUSTICS	447	NEC	176
BRYSTON	023	NIRO	343
CAMBRIDGE AUDIO	522	NILES	403
CARVER	006 028 061 071 201 214 226 180 185 022 029 077 284	ONKYO	017 046 064 107 108 187 079 080 090 179 209 270 275 438
CASIO	076	OPTIMUS	026 041 138
CHIRO	140	OUTLAW	342
CINEMA SOUND	034 134	PANASONIC	032 195 219 177 292 383 516
CITATION	148 272	PARASOUND	129 130 132 261 294 295 333 334
CLARION	026	PHAST	196
CLASSE	537	PHILIPS	249 250 251 063 119
COMPAQ	382	PIONEER	014 033 039 044 045 050 069 159 168 116 035 078 198 480
CURTIS MATHES	076	POLKAUDIO	029 515
DELPHI	415 515	PRIMARE	464
DENON	002 034 109 215 229 230 027 037 234 259 330 340 341 349	PROCEED	144 268
EAD	466	RCA	010 048 117 156 067 288
EIGER	149	REALISTIC	019 056 073 075 095
ELAN	057 290	REQUEST	351
ENLIGHTENED AUDIO	099 098	REVOX	162
ESCIENT	368 381 451 452 453 454	ROTEL	074 083 085
FANFARE	352	RUSSOUND	379 391 392
FISHER	047 214 180 182 297	SAMSUNG	016 571
FLEXTRONICS	378	SANSUI	040 048 110 119 065 228
FOSGATE	062 231	SANYO	047 059
FOSGATE AUDIONICS	342	SCOTT	019 091
GE	056 260	SEARS	076
GOLDSTAR	008	SHARP	026 094 131 175 181
HAFLER	174	SHERWOOD	024 038 055 102 103 105 106 051 030 447
HARMAN KARDON	231 233 254 153 154 118 121 227 277 317 318 365	SONY	018 093 223 247 248 160 166 015 101 184 218 271 353 369
HITACHI	020	SOUNDESIGN	372 380 417 421
IMERGE	371	SOUNDMATTERS	036
INKEL	197	SOUNDSTREAM	375
INTEGRA	354 438	SSI	064 088
JAMO	398	SUMO	068
JBL	263	SUNFIRE	171
JCPENNEY	076 216	TAEKWANG	344 345 346 494
JEFF ROWLAND	206	TEAC	138
JENSEN	058	TECHNICS	005 019 049 111 212 217
JVC	240 163 191 114 266 279 291	THETA DIGITAL	122 176 193 219 178 177 200 257 262
			136

CODE TABLES

[illegible]

61

BRAND

CODE NUMBERS

BRAND

CODE NUMBERS

62

DVR

DISH
ECHOSTAR
HUGHES
HUMAX
JVC
PHILIPS
RCA
REPLAY NETWORKS
SONY
TIVO
TOSHIBA

122
122
108 117
117
122
108 090 117
109
075
104 105
090 117
117

3M
AIWA
APPLE/iPod
ARCHER
AURORA MULTIMEDIA
AUTON
BOSE
CELADON
CRESTRON
DELL
DMX
DRAPER SCREEN
DREAMVISION
DWIN
EVERQUEST
EXTRON
FAROUDJA
FUJI
GATEWAY
HAUPPAUGE
HP
HUNTERDOUGLAS
JERROLD
JVC
KENWOOD
KENSINGTON
KEYSPAN
LITE-TOUCH
LUTRON
MAKITA
MICROSOFT/XBOX
MINDPATH
NILES
NSM
PIANO DISC PLUS
POLKAUDIO
RUSSOUND
SCIENTIFIC ATLANTA
SIMA
SOLO ELECTRONICS
SOMFY
SONY
STARCOM
TURBOSCAN
VELODYNE
X-10
XANTECH

152
164
401
155
220
191
409
221
213 214 215 216 217 218
261 262
156
204
097
080 253
206
151
184
209
261 262
294 295
261 262
219
153
185
185
406
297
208 257
158 159 077
186 201
408 107
205
160 187
161
085
162
081
163 156
082
207
078 079
164 165 166 261 262
153
167
203
183 093
168 169 170 171 172 188 189

DVR

AUX

AUX-TAPE
AIWA
CARVER
DENON
FISHER
GOLDSTAR
HARIMAN KARDON
JVC
KENWOOD
LINN
LUXMAN
MAGNAVOX

015 071 100 114
006 008 027 024 036
105 227 229
064
011
233
106 116 239 240
005 013 023 026 064 145 146 181 190
124
035 137 139
027

CODE TABLES

CODE TABLES

[illegible]

Frequently Asked Questions

What is a "macro" button?

A "macro" is a button on the RF20 that you setup 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 RF20 enables you to setup one button that does all those steps automatically with one press. For more information on how and why you should setup macro buttons, watch the Quick Setup DVD Program Guide or refer to pages 28-29 in this Manual.

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

No. The RF20 stores all of your settings in non-volatile FLASH memory. You could remove the batteries for months, replace them at your convenience, and the RF20 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

Universal Remote Control's Mastercontrol™ RF20 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

Learning Capability - 825 IR commands at standard frequencies (15kHz to 100kHz)
Macro Capability - 453 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: 7.1 oz. (with batteries)
Size: 8.5" x 2.5" x 1"
Batteries: Four AAA Alkaline batteries included
LCD Size: 0.88" x 1.88"

RF20

MasterControl™

OWNER'S MANUAL

simply MORE powerful™



500 Mamaroneck Avenue
Harrison, NY 10528
Phone: 1-914-835-4484
FAX: 1-914-835-4532

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