

UR12 Touch Screen Remote



UR12

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WARNING - TO REDUCE RISK OF DAMAGE, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

IMPORTANT SAFETY INSTRUCTIONS!

PLEASE READ THEM BEFORE OPERATING THIS EQUIPMENT.

General:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. **Warning: To reduce risk of damage, do not expose this equipment to rain or moisture.**
6. Only use attachments/accessories specified by the manufacturer.

Installation:

7. Use in accordance with the manufacturer's instructions.
8. Do not use near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.
9. Do not use this equipment near water.
10. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, are placed on the equipment.

Care of Equipment:

11. Clean only with a dry cloth.
12. Do not permit objects or liquids of any kind to be, spilled and/or fall onto the equipment.

Repair of Equipment:

13. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, liquid has been spilled or objects have fallen onto the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Do not attempt to service beyond that described in the operating instructions. All other service should be referred to qualified service personnel.
15. When replacement parts are required, be sure the service technician has used replacement parts specified by McIntosh or have the same characteristics as the original part. Unauthorized substitutions may result in damage other hazards.
16. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Thank You

Thank you for your decision to own this McIntosh UR12 Touch Screen Remote Control. The McIntosh dedication to "Quality," is assurance that it will provide you with many years of enjoyment.

Please take time to read this manual, as it will help you to become more familiar with your new McIntosh.

Please Take A Moment

The serial number, purchase date and dealer name are important for possible insurance claim or future service. The spaces below have been provided to record that information:

Note: The Serial Number is located inside the Battery Compartment on the left side.

Serial Number: _____

Purchase Date: _____

Dealer Name: _____

Technical Assistance

If you have questions about this product, contact your McIntosh Dealer who is more familiar with your component system. If additional help is needed, you can receive technical assistance at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-3512
Fax: 607-723-3636

Customer Service

If your McIntosh product is in need of repair, it can returned to your dealer or the McIntosh Service Department. For assistance on repair return procedure, contact the McIntosh Service Department at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-3515
Fax: 607-723-1917

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General Notes

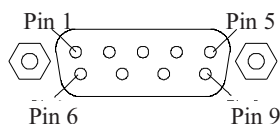
Caution: The UR12's LCD Screen is made of glass and is breakable, please handle with care.

1. The Upload Data Cable is available from the McIntosh Parts Department:
Upload Data Cable Part No. 171-437
Six foot, 2 conductor shielded, with a DB9 connector and one 1/8 inch stereo mini phone plug.
2. For additional operational information, refer to the owner's manual(s) for any component(s) that are controlled by the UR12.
3. McIntosh Source Component(s) need to be connected to a McIntosh Control Center via Data Cable(s) to allow control of the component(s) via the UR12's built-in McIntosh Touch Screen Menus and Push-buttons.
4. The UR12 contains Control Codes for some of the most popular remote controllable Audio/Video Component Products. If the component you would like to control is not listed in the Control Code Tables, they can be learned by following the instructions in the Learning Section of this manual.
5. In certain situations, the supplied Upload Data Cable may not be long enough to connect the UR12 to a computer. Below is the PIN Outs of the DB9 and Stereo Mini Phone Plug:

RS232 DB9 Connector Pin Layout

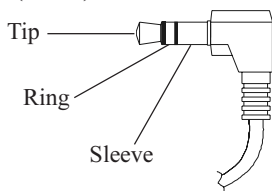
- | | |
|---------------------------|--------|
| 1. N/C | 6. N/C |
| 2. Data Out (TXD)In (RXD) | 7. N/C |
| 3. Data In (RXD) | 8. N/C |
| 4. N/C | 9. N/C |
| 5. Gnd. | |

Introduction and Performance Features



Stereo Mini Phone Plug

Tip - Data In (RXD)
Ring - Data Out (TXD)
Sleeve - Gnd.



Introduction

The McIntosh UR12 is a very powerful and flexible learning remote control with a LCD Touch Screen. The UR12 has many advanced operating features that can add convenience and enjoyment of your home entertainment system. It is designed to operate up to twelve components. The UR12 is preprogrammed for most McIntosh Control Centers. You can program it for your other components either from the preprogrammed code library in the remote control or you can teach up to 780 buttons into the UR12 from your original remote controls. It also allows you to change the button size and shape and edit the text on the button in the LCD. You can also make these changes with the aid of your personal computer. Setting up the UR12 to work with your components is very easy.

Performance Features

- **Controls up to Twelve Components**
Features fifty LCD touch screens, 13 convenient rubber buttons and a joystick.
- **Preprogrammed for quick set up**
Contains codes for most of the A/V components on the market.
- **Learning Capability**
Learns up to 780 commands head to head with other remote controls.
- **Customizable LCD Screens**
A wide selection of button sizes and shapes combine with the ability to write your own text to the LCD.
- **Operational Flexibility**
15 programmable macro buttons, 60 programmable favorite channel buttons as well as volume and transport punch through operations are available.
- **PC Interface**
Simplifies editing and downloading programs.
- **Ergonomic Design**
Provides strategic button and joystick layout with backlit LCD screen.
- **Memory Lock**
The UR12 has an internal memory lock system that retains all the programs and learned functions.

Installing Batteries

The UR12 uses four AA batteries. Please be sure to match the batteries with the (+) and (-) markings inside the battery compartment during installation. Refer to figures 1, 2, 3 and 4

Note: Please do not mix old batteries with new ones or mix different types of batteries.

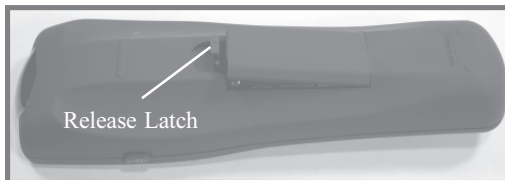


Figure 1



Figure 2



Figure 3

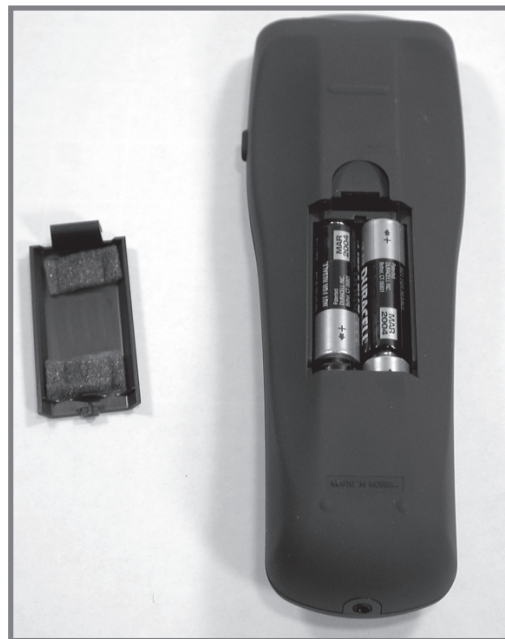


Figure 4

Initial Start-up

The remote control goes through self-testing for three seconds after the batteries are installed and automatically switches to Setting Mode for programming. Refer to figures 5 & 6.

1. Exit the System Setting Mode by simply pressing the MAIN push-button.

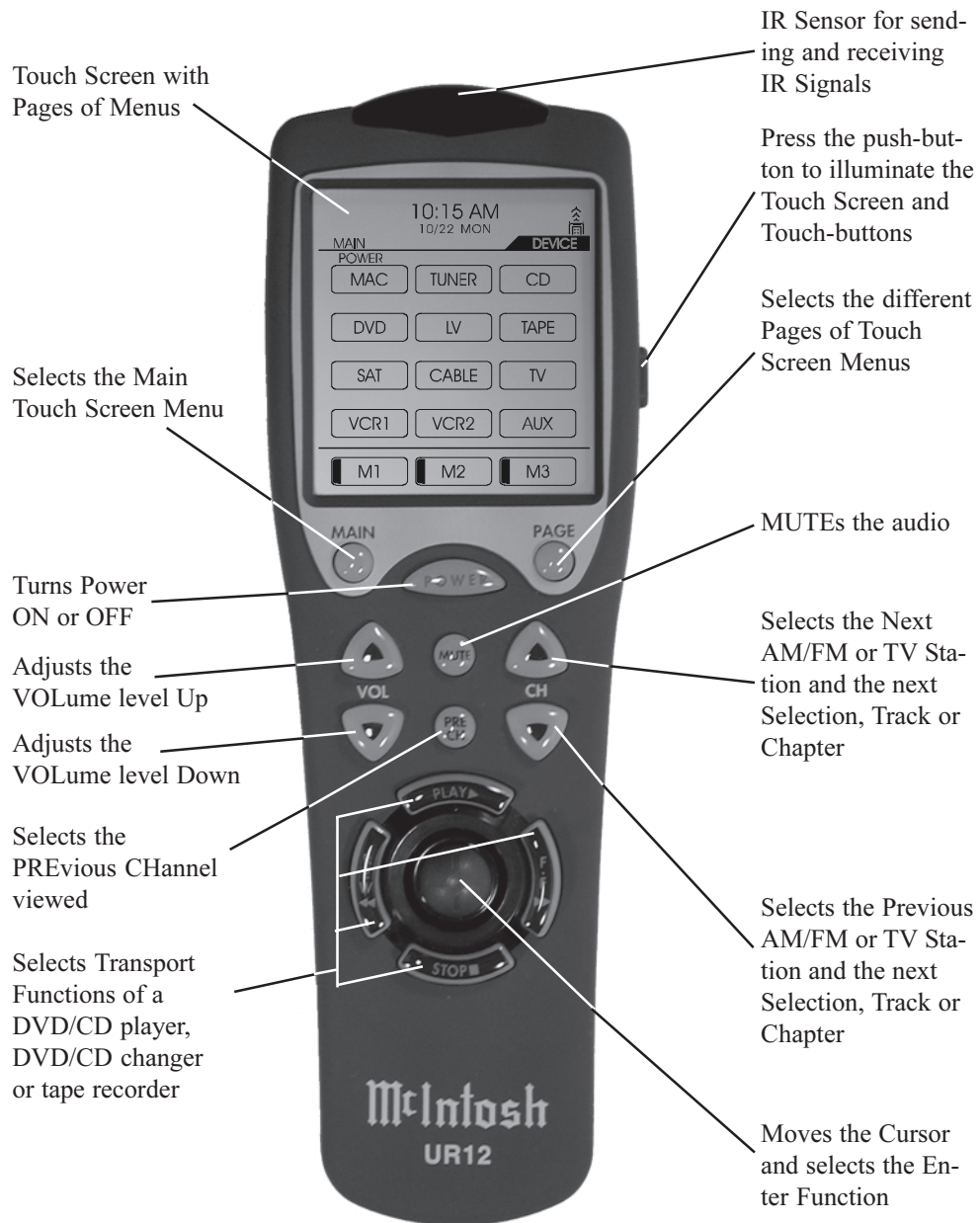
2. To start controlling McIntosh Components, press the MAC Touch-button on the MAIN LCD Screen.



Figure 5



Figure 6



How to Operate the Remote Control

Touch Screen

The Touch Screen allows for the selection and controlling of different components through multiple On-Screen Pages.

Mute

Press the MUTE Push-button to mute the audio and a second time to unmute. The MUTE Push-button is also used in conjunction with other push-buttons to perform programming and other functions.

Transport Functions

Use the PLAY ▶, FAST-FORWARD ►►, FAST REVERSE ◀◀ and STOP ■ Push-buttons to operate a DVD/CD player, DVD/CD changer or tape recorder.

Channel Functions

Press and release the CHannel Up ▲ or Down ▼ Push-button to move from station to station on both the AM and FM Dial. In a similar fashion, use the CHannel Up ▲ or Down ▼ Push-button to select the next available TV Channel. When playing a DVD, CD or Tape the CHannel Up ▲ Push-button will select the Next ►► Selection, Track or Chapter and the CHannel Down ▼ will select the Previous ◀◀ (Back) Selection, Track or Chapter.

Main

Press the MAIN Push-button to select the Main Touch Screen Menu. The MAIN Push-button is also used in conjunction with other push-buttons to perform programming and other functions.

Previous Channel

When viewing TV Channels, pressing the PREvious CHannel Push-button will select the last TV Channel Selected.

Volume

Press the UP ▲ or DOWN ▼ VOLume Push-button to raise or lower the listening volume level.

Power

Switches AC Power ON or OFF for a McIntosh Control Center or Preampifier. If a non-McIntosh Component is being controlled (ie. TV), then the UR12 will switch AC Power ON or OFF for that component.

Lighting

Press and release the LIGHT Push-button to momentarily illuminate the Touch Screen and the UR12 Push-buttons.

Page

Press the PAGE Push-button to select different Pages of Menus displayed on the Touch Screen. The MAIN Push-button is also used in conjunction with other push-buttons to perform programming and other functions.

Joystick

The Joystick allows, the cursor to move in four directions, selects different Touch Screen Menu Options and the On-Screen Menus of Source Components. By pressing the Joystick down, it also functions as an Enter key to select the displayed function.

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Touch Screen Menu Page 1



Input Source Selection

Select one of the six Audio Inputs or six Audio/Video Inputs from the available Input Sources on your McIntosh Control Center or Preampifier.

Note: If your McIntosh Control Center or Preampifier has additional Inputs that you would like to select and control, contact your McIntosh Dealer for assistance.

Touch Screen Menu Page 2



Tuner Functions

Select AM or FM broadcast band. Press and release SEEK Up or Down to move from station to station. Press and hold a SEEK Push-button to move continuously from station to station. Press REVIEW to start the automatic brief audition of each of the presets stored in the tuner memory. Press REVIEW a second time to stop on a station preset and exit the Review process.

Note: The UR12's CHannel Push-buttons may also be used to tune to the next station. Press and release the CHannel Up ▲ or Down ▼ Push-button to move from station to station on both the AM and FM Dial.

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Touch Screen Menu Page 3



Numbered and +10 Push-buttons

Press push-buttons 0 through 9 to access tuner station presets, DVD chapters, DVD/CD tracks or DVD/CD discs. When using a McIntosh DVD/CD player, access track numbers higher than 10 by first pressing +10 and then a number push-button.

Home

Allows remote operation of the McIntosh HC-1 Home Controller, which in turn will control power to accessories. Press the Home Push-button and within 5 seconds, the appropriate number Push-buttons (0 through 9) to operate the selected device.

Enter

Press ENTER to perform various functions on a variety of McIntosh Components. It will also pause the playing of a DVD/CD disc or tape player.

Touch Screen Menu Page 4



Power On and Off

Switches AC Power ON or OFF.

Note: Provides discrete commands for use in Macros.

Listen and Record Processors

Accesses the external LISTEN and/or RECORD PROCESSOR(s) on some McIntosh Control Centers or Preamplifiers.

Speakers 1 and 2

Switches the two pairs of SPEAKERS/OUTPUTS On or Off.

Mode

Changes the Sound Processing Modes.

Mono/Stereo

Allows the combining of left and right signals into Mono.

System Off

Switches Off all Zones of a McIntosh System.

Level

The LEVEL Up or Down Touch-buttons allows Trim Adjustments of various functions.

Trim

Activates the TRIM Mode and the adjustments are performed with the LEVEL Touch-buttons. Touch TRIM a second time to cycle through the TRIM Modes.

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Overview

The UR12 is designed to operate up to twelve components. They are Control Center (labeled MAC), CATV, Satellite, TV, DVD, VCR1, VCR2, Laser Disc, Tuner, CD, Tape and AUX. However, the device button name can be changed to meet your exact needs. You can also create a favorite device page and transfer the frequently used devices to the favorite device page in order to change the device button sizes and shapes. Once you create the favorite device page, it will appear as a default device page. There are also four pages of the LCD screen for each device and you can use them to create, delete or edit any functional buttons to customize with your audio/video components.

Touch Screen Contrast

The contrast of the TOUCH SCREEN can be adjusted by pressing either the CHANNEL UP or DOWN button while holding down the MAIN button. Release the buttons when you reach the optimal level of contrast. Refer to figure 7.

Entering the System Settings

All the programming is done by first entering the SYSTEM SETTING Mode in the remote control. Press both the MAIN and PAGE buttons simultaneously for five seconds to enter the SYSTEM SETTING mode. Refer to figure 7. Move the cursor on the screen with the joystick to your selection in the list. Enter the selection by pushing down the joystick. You can exit



Figure 7

the setting mode by simply pressing the MAIN button or bring the cursor to 8. TO EXIT with the joystick and push the joystick down.

Clock Setting

Enter the Clock Setting Mode by moving the cursor on the TOUCH SCREEN to 6. SET DATE & CLOCK by using the joystick. Enter this mode by pushing the joystick down. Press the selection you wish to change from the TOUCH SCREEN and change them using the UP and DOWN buttons. Once you complete the setting, store them by pressing the SAVE button.

Touch Screen Alignment

Move the cursor on the TOUCH SCREEN to 1. TOUCH PAD ALIGNMENT with the joystick. Press the joystick down to enter the mode. Align the screen by pressing the three points that appear on TOUCH SCREEN one point at a time. Follow the On-Screen instructions.

Note: If a new version of the Normal Modes of Operation Firmware has been uploaded into the UR12, a Touch Screen Alignment Procedure must be performed in order for the Touch-buttons to become active.

Systems and Options

Move the cursor on the TOUCH SCREEN to 2. SYSTEM & OPTIONS with the joystick. Enter this mode by pushing the joystick down and the following can be set.

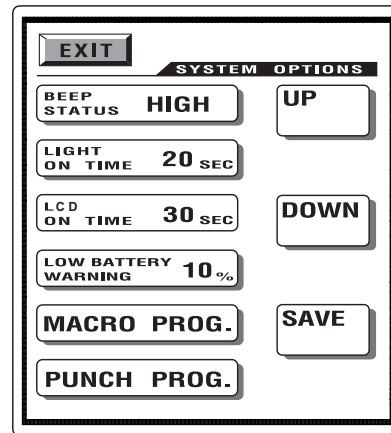


Figure 9

Refer to figure 9.

The TOUCH SCREEN (LCD) will list the following choices:

<u>Settings</u>	<u>Range</u>	<u>Default</u>
Beep Status:	High, Low, Off	High
Light On Time: (in seconds)	0 - 120	20
LCD On Time: (in seconds)	5 - 120	30
Low Battery Warning: (in percentage)	10 - 50	10

Select the button you wish to change from the list first. Press the UP or DOWN buttons on the TOUCH SCREEN to set them up. Once you set them up, press the SAVE button to store them. You will be in the setting mode once again. To return to the main menu, move the cursor to 8. TO EXIT and press the cursor down or simply press the MAIN button to exit to main menu.

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Introduction Macro and Punch Through Programming

The MACRO and PUNCH THROUGH can be programmed. There are three types of macro functions you can program. The M1, M2 and M3 in the Main Menu are designed to send out up to twenty eight commands from each of the three Touch-buttons. There are Twelve Device Touch-buttons in the Main Menu and fourteen available commands from each device button. With the Favorite Channel Buttons you can create and design up to 60 buttons for your Favorite Button in the Video Modes. Each favorite channel button can send out up to fourteen commands with one button press. Refer to figures 9 and 10.

Programming Macro Functions

Press MACRO PROGRAM button in 2. SYSTEM & OPTIONS Move the cursor on the LCD either to the COMMON BUT-

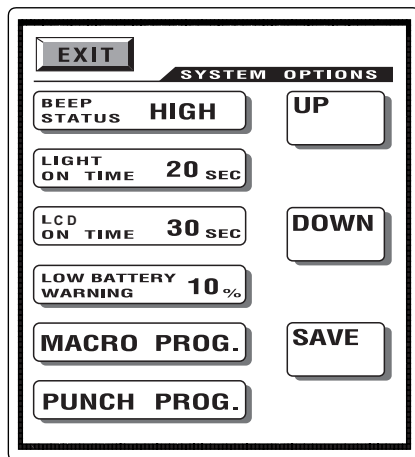


Figure 9

TON to program M1, M2 and M3 and favorite channel buttons or to the DEVICE BUTTON to program the device buttons by using MUTE button. Press the button you wish to program and follow procedures shown below:

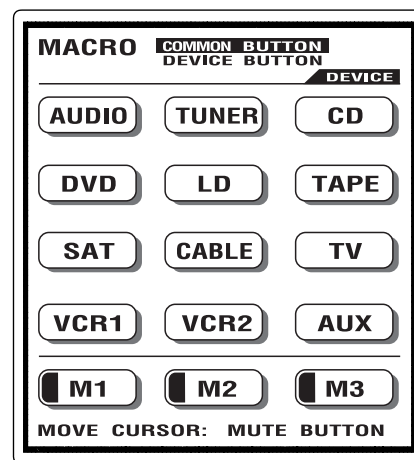


Figure 10

M1, M2 and M3 Buttons

1. Select one of the three Macro Touch-buttons, M1 – M3, with the cursor on DEVICE BUTTON.
2. Select functional buttons you wish to store in the Macro Touch-button. You can store up to 28 commands.
3. Store the commands you selected to the macro button by pressing CH (UP) push-button. To cancel the macro commands, press CH (DOWN) Push-button.

Device Buttons

1. Select one of the twelve Device Buttons you wish to store macro functions with the cursor on DEVICE BUTTON.
2. Move the cursor to COMMON BUTTON and select again either the same or another device button whose functional buttons you wish to store in the device Macro Touch-button you selected first. You can store up to 14 commands into the device Macro Touch-buttons.
3. Store the commands you selected to the Macro Touch-button by pressing CH (UP) Push-button. To cancel the macro commands, press CH (DOWN) Push-button.

Favorite Channel Button

1. Select the device you wish to program Favorite Channels with the cursor on COMMON BUTTON.
2. Select one of the Favorite Channel Touch-buttons and enter the channel number you wish to store in the FAVORITE Channel Touch-button. You can store up to 14 commands.
3. Store the commands you selected in the Favorite channel button by pressing Channel UP button. To cancel the macro commands, press CH (DOWN). Once you complete the macro programming and wish to exit, press both the MAIN and PAGE buttons simultaneously. This will take you to the setting mode. Move the cursor to 8. TO

EXIT in setting mode and press the cursor down to exit or simply press the MAIN button to exit to main menu.

Note: Pressing the Volume Up button during the macro programming will add a time delay of 0.5 seconds between the commands (e.g. Pressing the Volume Up button twice will cause a pause of 1 second between the commands where the delay was inserted).

Erase Function

To erase a Macro, Device or Favorite Channel Programmed Function that has been stored, press the Channel UP Push-button without entering any commands during the above Programming Modes.

Punch through Functions

You can use audio receiver volume control in a different mode (eg. Audio receiver Volume Up and Volume Down and Mute in Satellite Mode) using a volume Punch-through feature. You can also have four VCR (or DVD) transport buttons, Play, Stop, Fast Forward and Rewind, operate in another mode such as in Satellite, Cable and Audio modes. You can also make CHANNEL Punch-through.

Programming Punch-through

1. Press PUNCH THROUGH in the Touch Screen in 2. SYSTEMS & OPTIONS Mode.
2. Press VOLUME UP button for Volume Punch Through or press the PLAY button for Transport Punch Through or

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CHANNEL up button for Channel Punch Through.

3. Select the device you wish to Punch-through to (1st device).
4. Select the device you wish to Punch-through from (2nd device).
5. Repeat from Step 2 to program Punch-through to other devices. Once you complete the Punch-through Programming and wish to exit, press both the MAIN and PAGE buttons simultaneously. This will take you to the setting mode. Move the cursor to 8. TO EXIT in the setting mode and press down the cursor to exit or simply press the MAIN button to exit to main menu.

To Erase Punch Through Functions

Press the same device button in the PUNCH THROUGH TO and PUNCH THROUGH FROM during the Punch Through programming.

Preprogram

You can program the UR12 to make it compatible with all of your components by following either the preprogramming method or teaching it with your original remote controls. Refer to figures 11 and 12.

Using a three-digit code number

1. Turn on the component you plan to operate manually.
2. Go to the program setting mode by

pressing both the MAIN and PAGE buttons simultaneously for five seconds

3. Using the joystick, move the cursor down in the Touch Screen to 3. PREPROGRAM.
4. Push the joystick down to enter the preprogramming mode.
5. Select the device on the Touch Screen that you wish to program (eg. To program TV, press the TV Device Touch-button).

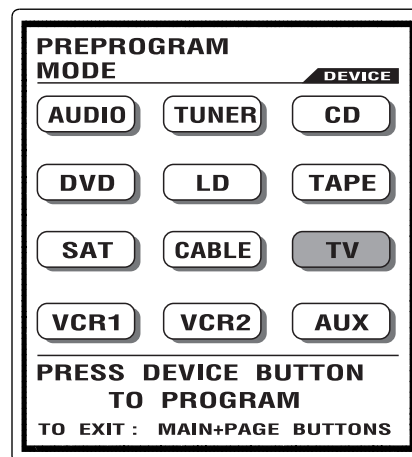


Figure 11

6. Select the device from which the three digit code number table will be selected from (eg. If it is from the TV code table, press the TV Device Touch-button).
7. Point the remote control toward the component and enter the three-digit code number you selected for your component from the Code Table on pages 32-43. Please enter the code number within 20 seconds of program-

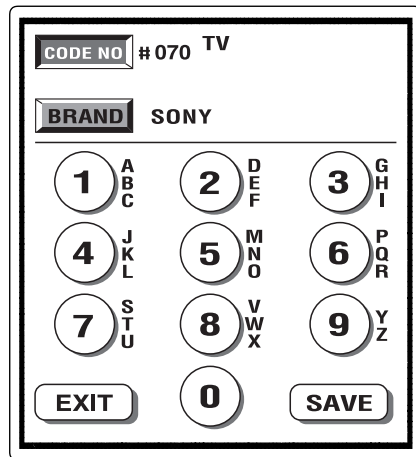


Figure 12

- ming. If there is more than one code number assigned to your brand, try one code number at a time until you find the right code number. If you entered the right code number, the component will turn off right after you entered the number. When the right code number is entered, save the code by pressing the SAVE button on Touch-button.
8. Confirm that you entered the right code number that matches your component by pressing other buttons such as POWER, VOLUME, MUTE and CHANNEL. If any of the buttons do not operate as they should, please repeat from Step 5.
 9. Continue to program other components by repeating from the above step 5.
 10. Once you complete programming all the devices, exit from the programming mode by pressing both the

MAIN and PAGE buttons simultaneously.

11. You will be in the setting mode once again. Move the cursor to 8. TO EXIT and press the cursor down or simply press the MAIN button to exit to main menu.

Auto Scan with Brand Names

1. Manually turn on the component you plan to operate.
2. Go to program setting mode in the remote control by pressing both the MAIN and PAGE buttons simultaneously for five seconds.
3. Using the joystick, move the cursor down in the Touch Screen to 3. PRE-PROGRAM.
4. Push the joystick down to enter the preprogram mode.
5. Select the device you wish to program in the Touch Screen (eg. To program TV, press the TV Device Touch-button).
6. Select the device from which the three digit code number will be selected from (eg. If it is from the TV code table, press the TV Device Touch-button).
7. Point the remote control to the component and press the BRAND button.
8. Press the number button on the Touch Screen that corresponds with the first alphabetical character of your brand name. Please press the number button within 20 seconds of programming. Please note that pressing the number

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button will only show the first brand (in alphabetical order) in that alphabet group.

9. If the first code number assigned to the brand is the right one, it will turn off the component. If it is not the right one or if it is not the right brand name, press the Channel Up button. It will automatically send out a POWER OFF command either from the next code number from the same brand or the code from the next brand. Keep the Channel Up button pressed until it turns off the component. When the component turns off, save the code by pressing the SAVE button on the Touch-button.

Note: It is quite possible that the code number that works with your component may have a different brand name because of the way it was made by its manufacturer. Confirm that it is the right code number for your component by pressing other buttons such as POWER, VOLUME, MUTE and CHANNEL, etc. If any of the buttons do not operate as they should, please repeat from Step 5.

10. Continue to program other components by repeating from Step 5.
11. Once you have completed programming all the devices, exit from the programming mode by pressing both the MAIN and PAGE buttons simultaneously.
12. You will be in the setting mode. Move the cursor to 8. TO EXIT and press the cursor down or simply press the

MAIN button to exit to the main menu.

Learning Method

1. Go to the program setting mode by pressing both the MAIN and PAGE buttons simultaneously for five seconds.

Note: Any of the Touch-buttons may be used except the MAIN and PAGE Push-buttons.

2. Move the cursor to 4. LEARNING with the joystick and then push the joystick down to enter the learning mode. Refer to figure 13.

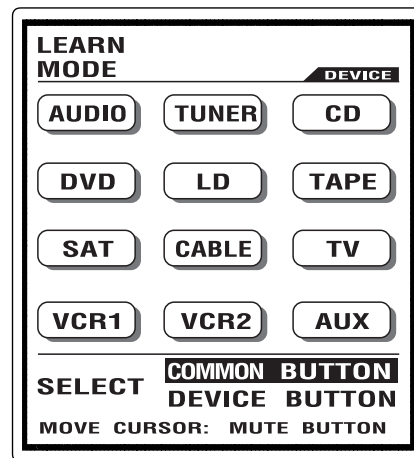


Figure 13

3. If you wish to teach any of the functional buttons in the device, keep the cursor at COMMON BUTTON and select the device that you wish to enter. If you wish to teach the twelve device buttons shown on the Touch-button, press the MUTE button to move the cursor to the DEVICE BUTTON

- and select the device on the Touch-button that you wish to teach into.
- Place your original remote control to the UR12 head to head about 2-3 inches apart. Refer to figure 14.
 - Press either the Device Touch-button or functional button, whichever you wish to teach in the UR12. It is now ready to learn on the button you selected.
 - Press the button on your original remote control that you wish to teach into the UR12. The UR12 will “beep” indicating that it received the signal and the Touch-button will show “RETRY”. Please enter the code signal within 20 seconds of programming.
 - Press the same button on the original remote control a second time to ensure correct learning. The UR12 will beep a second time with “GOOD” flashed on the Touch Screen, indicating that it learned the code correctly. If it flashes “FAIL”, repeat from Step 5 until it learns successfully.
 - Move on to the next button (or device) you wish to teach by repeating from Step 5. If you are teaching functional buttons, you can also move on to teach the buttons in the next page by pressing the PAGE button.
 - Once you complete the teaching and wish to exit from the leaning mode, press the MAIN button to go back to the main page of the learning mode. Exit from the Main page by pressing both the MAIN and PAGE buttons simultaneously.
 - You will be in the setting mode once again. Move the cursor to 8. TO EXIT and press down the cursor or simply press the MAIN button to exit to the main menu.

Erasing the Learned Buttons

Erase a single button

- Go to the program setting mode by pressing both the MAIN and PAGE buttons simultaneously for five seconds.
- Move the cursor to 4. LEARNING with the joystick and then push the joystick down to enter the learning mode.
- Move the cursor to COMMON BUTTON and select the device that contains the functional button you wish to erase. If you wish to erase the function

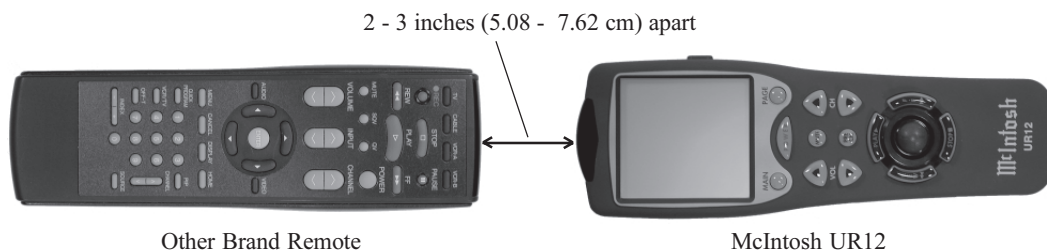


Figure 14

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in the Device Touch-button, move the cursor to DEVICE BUTTON.

4. Press the functional button or Device Touch-button you wish to erase for three seconds or more and it will flash "ERASED". Repeat this step for other buttons you wish to erase.
5. Once you completed erasing and wish to exit from this mode, press the MAIN button to go back to the main page of the learning mode. Exit from the Main page by pressing both the MAIN and PAGE buttons simultaneously.
6. You will be in the setting mode once again. Move the cursor to 8. TO EXIT and press down the cursor or simply press the MAIN button to exit to the main menu.

Erase all the learned commands in a single device

1. Go to the program setting mode by pressing both the MAIN and PAGE buttons simultaneously for five seconds.
2. Move the cursor to 4. LEARNING with the joystick and then push the joystick down to enter the learning mode.
3. Press the MUTE button to move the cursor to the DEVICE BUTTON and keep the Device Touch-button you wish to erase all the learned commands down for five seconds until the Touch-button shows ERASED. This will erase the function taught in the Device Touch-button. If you continue

to press the Device Touch-button for another five seconds, it will erase all the functions in the device.

4. Once you complete the erasing and wish to exit from this mode, press the MAIN button to go back to the main page of the learning mode. Exit from the Main page by pressing the MAIN and PAGE buttons simultaneously.
5. You will be in the setting mode once again. Move the cursor to 8. TO EXIT and press down the cursor or simply press the MAIN button to exit to the main menu.

Erase all the learned commands in all twelve devices

1. Go to the program setting mode by pressing both the MAIN and PAGE buttons simultaneously for five seconds.
2. Move the cursor to 4. LEARNING with the joystick and then push the joystick down to enter the learning mode.
3. Press both the POWER and STOP buttons simultaneously for five seconds in the learning mode. The Touch-button will show ERASED after it erased all the learned commands in the remote control.
4. Once you complete the erasing and wish to exit from this mode, press both the MAIN and PAGE buttons simultaneously.
5. You will be in the setting mode once again. Move the cursor to 8. TO EXIT and press down the cursor or simply

press the MAIN button to exit to the main menu.

Note: Preprogrammed code will be automatically restored when learned function is erased.

Edit Touch-buttons

Touch-buttons may be added or deleted, change the Touch-button size and shape, move the Touch-button locations (even to other pages), creating a Favorite Device Page and edit the Text on the Touch-buttons in the EDITING Mode.

1. Go into System Setting Mode by pressing both the MAIN and PAGE buttons simultaneously for five seconds.
2. Move down the cursor in the Touch-button Screen to 5. EDIT BUTTONS using the joystick.
3. Push down the joystick to enter the EDITING mode. The Touch Screen will list the following six choices to choose from and select the button you wish to enter. Refer to figure 14.

Moving Touch Buttons

1. Set the cursor to COMMON BUTTON and select the device you wish to enter. Select the functional button you wish to move in the device page and move them with the joystick within the same page or move to the next page by pressing the PAGE button. Once you position the button at the location or

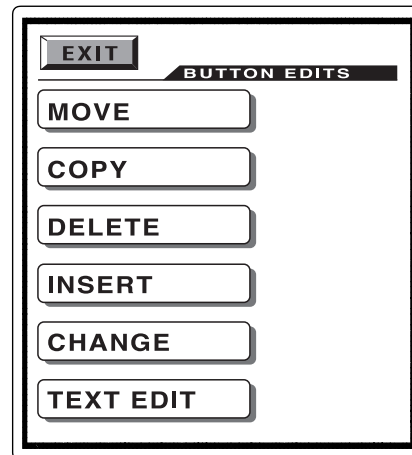


Figure 14

- page you desire, push the joystick down to save it.
2. Repeat the above step to continue to move other buttons in the same device.
3. If you wish to move buttons in another device, return to the main menu by pressing the MAIN button and repeat from STEP 1.
4. Once the operation is completed and you wish to exit from this mode, return to the main menu by pressing the MAIN button and then exit from the main menu by pressing both the MAIN and PAGE buttons, simultaneously.

Note: You may first relocate or delete the buttons that are currently at the position you plan to locate the new button. However, you can also relocate or delete the buttons after you superimpose the new button above them. The Device

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buttons on the Favorite Device Page can be moved.

Copy Touch Buttons

1. Move the cursor either to COMMON BUTTON or DEVICE BUTTON with the MUTE button.
2. Select the device you wish to enter.
3. Select the functional button you wish to copy and move it with the joystick within the same page or move to the next page by pressing the PAGE button. Once you position the copied button at the location or page you desire, push the joystick down to save it.
4. Repeat from Step 2 to continue to copy other buttons in the same device.
5. If you wish to copy buttons in another device, return to the main menu by pressing MAIN button and repeat from Step 1.
6. Once the operation is completed and you wish to exit from this mode, return to the main menu by pressing the MAIN button and then exit from main menu by pressing both the MAIN and PAGE buttons simultaneously.

Creating a Favorite Device Page

1. Move the cursor to DEVICE BUTTON with the MUTE button.
2. Select the device you wish to store in your Favorite Device Page (Main 1).
3. Press the MAIN button. The device you selected will appear in a favorite page you just created. You can also move the device button to a different location in the Touch Screen Page with

the joystick in this step.

4. Press the joystick down to save the device button you copied.
5. Repeat Step 2 to Step 4 to copy other device buttons you wish to store to your favorite device page.
6. Once you have completed it, exit by pressing both the MAIN and PAGE button simultaneously.

Note: You may also want to change the size and text of the buttons in the favorite device page using CHANGE and TEXT EDIT in EDIT mode. However, the text on the button should be written on the main device page before the device button is stored in favorite device.

Delete Touch Buttons

1. Select the functional button you wish to delete in the device page and push the joystick down for three seconds to delete the button. If you wish to delete the device button in favorite page, press the MAIN button and select the device button you wish to delete. Press down the joystick for three seconds to delete the button.

Note: Any Touch-button on the Touch-button Screen may be deleted except the twelve device buttons in the MAIN page.

Caution: The preprogrammed command of the deleted button can be restored only by creating a button at exactly the same location it was originally assigned. It can also be restored by clearing the entire

memory in the remote control and a new program is loaded to the remote control. The learned functions will be lost permanently with the deletion of the button. Please use caution in deleting the button.

2. Repeat the above step to continue to delete other buttons in the same device.
3. If you wish to delete functional buttons in another device, return to the main menu by pressing the MAIN button and repeat from Step 1.
4. Once the operation is completed and you wish to exit from the delete mode, return to the main menu by pressing the MAIN button and then exit from the main menu by pressing both the MAIN and PAGE buttons simultaneously.

Inserting Touch-buttons

1. Select INSERT button in EDITING mode.
2. Select the device you wish to create as a new button. Refer to figure 15.
3. Move to the page you wish to create a new button by pressing the PAGE button. Press the CHANNEL UP or DOWN buttons and various sizes and shapes of buttons will appear on the top left side of the Touch-button Screen. Refer to figure 16.
4. Continue to press the Channel button until you find the button you wish to use.
5. Move the button you created to the lo-

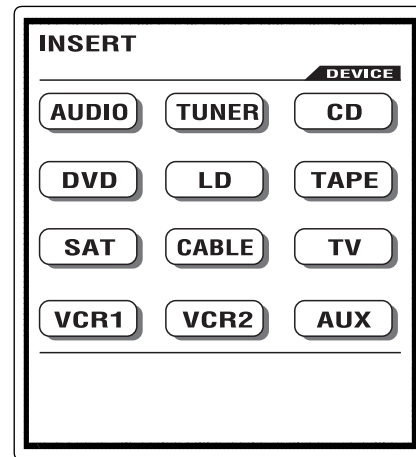


Figure 15

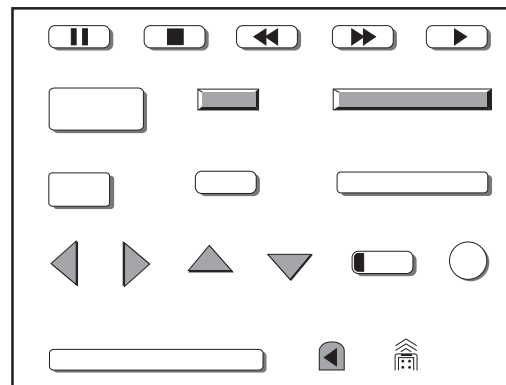


Figure 16

cation you wish to position with the joystick and press the joystick down to save it in that location.

6. Repeat from Step 3 to continue to create new buttons in the same device.
7. If you wish to create new buttons in another device, return to the main menu by pressing the MAIN button and repeat from STEP 2.

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8. Once the operation is completed and you wish to exit from this mode, return to the main menu by pressing the MAIN button and exit from the main menu by pressing both the MAIN and PAGE buttons simultaneously.

Changing Touch-buttons

1. Press CHANGE button in EDITING MODE.
2. If you wish to change the functional buttons, press the device that contains the functional button you wish to change and then select the functional button. If you wish to change the device buttons in the favorite device page, press the MAIN button in main menu and then select the device button you wish to change. Refer to figure 17.

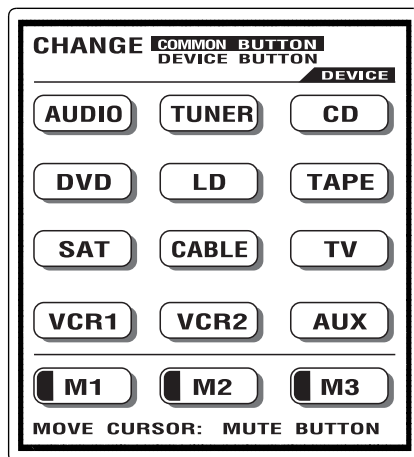


Figure 17

3. After selecting the button you wish to change size and shape, press the CHANNEL UP or CHANNEL DOWN

button and various sizes and shapes of buttons will appear on the button you selected.

4. Continue to press the Channel button until you find the button you wish to use and press the joystick down to save the shape of the button.
5. Repeat from Step 3 to continue to change buttons in the same device.
6. If you wish to change button sizes and shapes in another device, return to the main menu by pressing the MAIN button and repeat from Step 2.
7. If you wish to exit from this mode, return to the main menu by pressing the MAIN button and then exit from the main menu by pressing both the MAIN and PAGE buttons simultaneously.

Editing Touch-button Text

1. Select TEXT EDIT button in EDITING MODE.
2. If you wish to write on the functional buttons, move the cursor to COMMON BUTTON with the MUTE button and select the device you wish to enter. Select the functional button you wish to write text. If you wish to write on the device buttons or on the M1, M2 and M3 buttons, move the cursor to DEVICE BUTTON and select the device button. Refer to figure 18.
3. After the selection of the button you wish to write, move the cursor to the location with the joystick to write a text in the button, press the Volume UP

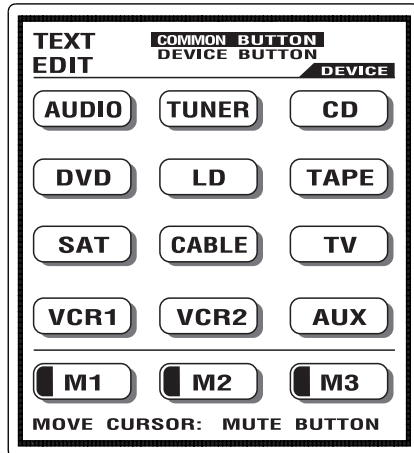


Figure 18

or DOWN Push-button to select the characters you wish to use, press the Channel UP or Channel DOWN Push-button to move on to next or move back to the previous characters, press the PRE CH button to move to the second line of the text and the POWER button for different font sizes. You can select font sizes by pressing the POWER button either before you start to write the characters or after you write the text. For a space between the characters, press the PLAY button. Refer to figure 19.

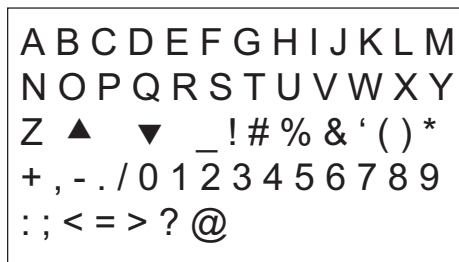


Figure 19

4. Press the joystick down to save the new text on the button you selected.
5. Repeat from Step 3 to continue to change the text on other buttons in the same device.
6. If you wish to change the text in another device, return to the main menu by pressing the MAIN button and then repeat from Step 2.
7. If you wish to exit from this mode, return to the main menu first by pressing the MAIN button and exit from the main menu by pressing both the MAIN and PAGE buttons simultaneously.

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Setting the Date and Clock

1. Enter the Setting mode by pressing both the MAIN and PAGE Push-buttons simultaneously for five seconds.
2. Move the cursor on the Touch Screen to **6. SET DATE & CLOCK** by using the joystick. Enter this mode by pushing the joystick down. Refer to figure 19.
3. Press the selection you wish to change from the Touch Screen and change it using the UP and DOWN buttons. Once you complete the settings, store them by pressing the SAVE button.

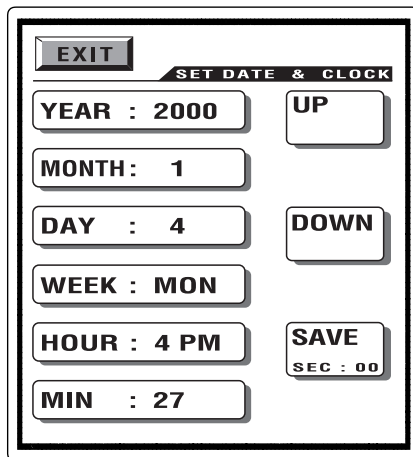


Figure 19

Program Loading

This program enables you to both up load the program to PC as well as down load from PC using the UR12 Upload Data Cable.

1. Connect the 1/8 inch stereo mini phone plug end of the Upload Data Cable to the jack on the bottom end of the UR12 Remote Control. Refer to figure 21.
2. Connect the DB9 connector end of the Upload Data Cable to the Serial Com Port on the computer.
 1. Enter the Setting mode by pressing both the MAIN and PAGE Push-buttons simultaneously for five seconds.
 2. Move the cursor on the Touch Screen to **7. PROGRAM LOADING** by using the joystick. Enter this mode by pushing the joystick down. Refer to figure 20.

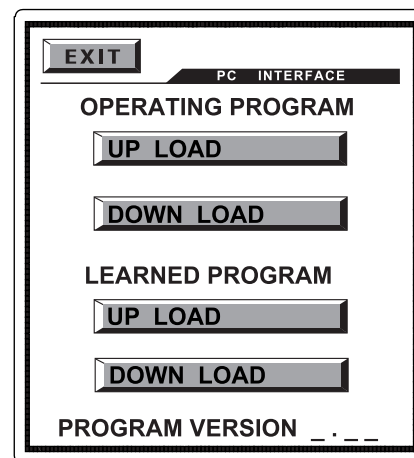


Figure 20

End View of UR12



UR12 Upload Data Cable



Computer with UR12 Software Program

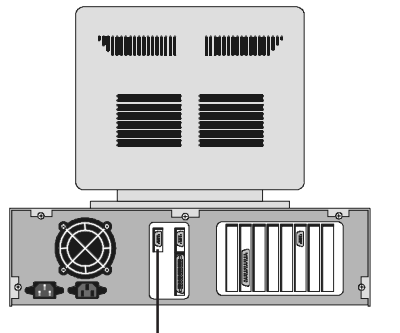


Figure 21

Erasing all the Programs

Caution: *The following step will erase all of the Normal Modes of Operations from the UR12 and activate the Program Upload Mode.*

Pressing the button shown through the opening in the battery compartment after removing the batteries from the UR12 will erase all the programs in the remote control. Refer to figure 22. In order to return the UR12 to Normal Modes of Operation proceed to Program Loading on page 28.

Location of Reset



Figure 22

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The Function of some Touch- buttons and Push-buttons, when used to control various devices, differ from the Button Nomenclature.

When CABLE Touch Screen Menu is selected:

A = P/Delete (Touch Screen Page 3)

When CD Touch Screen Menu is selected:

CH Up▲ = Next Track ►►
CH Down▼ = Previous Track ◀◀
K1 = Search - (Touch Screen Page 3)
K2 = Random (Touch Screen Page 3)
K3 = Search + (Touch Screen Page 3)

When DVD Touch Screen Menu is selected:

CH Up▲ = Next Chapter/Track ►►
CH Down▼ = Previous Chapter/Track ◀◀

When LV Touch Screen Menu is selected:

CH Up▲ = Next Chapter/Track ◀◀
CH Down▼ = Previous Chapter/Track ►►
K1 = Random (Touch Screen Page 3)
K2 = Disc (Touch Screen Page 3)
K4 = Disc 1 (Touch Screen Page 4)
K5 = Disc 2 (Touch Screen Page 4)
K6 = Disc 3 (Touch Screen Page 4)
K7 = Disc 4 (Touch Screen Page 4)
K8 = Disc 5 (Touch Screen Page 4)
K9 = Edit (Touch Screen Page 4)

Alternate Button Functions

When SAT Touch Screen Menu is selected:

INPUT	=	TV/SAT	(Touch Screen Page 1)
EXIT	=	Exit/Cancel	(Touch Screen Page 2)

When TAPE Touch Screen Menu is selected:

PRE. CH	=	Deck A	
DECK A-R PLAY	=	Rev. Play	(Touch Screen Page 1)
DECK B-R PLAY	=	Rev. Play	(Touch Screen Page 2)
DECK B-PLAY	=	For. Play	(Touch Screen Page 2)
K10	=	Deck A	(Touch Screen Page 3)
K12	=	Deck B	(Touch Screen Page 3)

When TV Touch Screen Menu is selected:

PRE. CH	=	Q. View/Last Channel	
DISPLAY	=	Display/Recall	(Touch Screen Page 2)
EXIT	=	Exit/Clear	(Touch Screen Page 2)

When VCR1 or 2 Touch Screen Menu is selected:

V/T	=	Vcr/Tv	(Touch Screen Page 2)
-----	---	--------	-----------------------

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Manufacturer/Brand	Set-Up Code Number	Audio Devices
ADC	7	
ADCOM	082 092 225 161 269	
AIWA	018 104 170 202 203 213 211 188	
AKAI	138 189	
AMC	125 126 127 128 258 281 282	
AMEND	54	
AMX	196	
ANGSTROM	142	
ARCAM	141	
AUDIO ACCESS	147	
AUDIO ALCHEMY	135	
AUDIO DESIGN	194 221 011	
AUDIO EASE	021 196 207	
AUDIO FILE	71	
AUDIO MATRIX	167	
AUDIO SOURCE	273	
AUDIO TECHNICA	134	
B & K	096 097	
BOSE	070 170 224	
BRYSTON	23	
CARVER	006 028 061 071 201 214 226 180 185 022 029 077 284	
CASIO	76	
CHIRO	140	
CINEMA SOUND	034 134	
CITATION	148 272	
CLARION	26	
CURTIS MATHES	76	
DENON	002 034 109 215 229 230 027 037 234 259	
EIGER	149	
ELAN	57	
ENLIGHTENED AUDIO	099 098	
FISHER	047 214 180 182	
FOSGATE	062 231	
GE	056 260	
GOLDSTAR	8	
HAFLER	174	
HARMAN KARDON	231 233 254 153 154 118 121 227 277	
HITACHI	20	
INKEL	197	
JBL	263	
JCPENNY	076 216	
JEFF ROWLAND	206	
JENSEN	58	
JVC	240 163 191 114 266 279	
KENWOOD	026 066 145 146 181 190 197 192 182 199 151 222 180 005 280	
KINERGETICS	220 140	
KOSS	216	
KRELL	150 072	
KYOCERA	7	
LEXICON	120 235 236 237	
LINN	124	
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	
MCINTOSH	001 238	
MCS	76	

Setup Code Table

Manufacturer/Brand	Set-Up Code Number	Audio Devices
MERIDIAN -----	100 012 013	
MITSUBISHI -----	242 243 204	
MONDIAL -----	157 158 042 043 081 112	
MYRYAD -----	276	
NAD -----	186 113 283	
NAKAMICHI -----	111 244 245 172 183	
NEC -----	176	
ONKYO -----	017 046 064 107 108 187 079 080 090 179 209 270 275	
OPTIMUS -----	026 041 138	
PANASONIC -----	032 195 219 177	
PARASOUND -----	129 130 132 261	
PHAST -----	196	
PHILIPS -----	249 250 251 063	
PIONEER -----	014 033 039 044 045 050 069 159 168 116 035 078 198	
PROCEED -----	144 268	
RCA -----	010 048 117 156 067	
REALISTIC -----	019 056 073 075 095	
REVOX -----	162	
ROTEL -----	074 083 085	
SAMSUNG -----	16	
SANSUI -----	040 048 110 119 065 228	
SANYO -----	047 059	
SCOTT -----	019 091	
SEARS -----	76	
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	
SOUNDESIGN -----	36	
SOUNDSTREAM -----	084 088	
SSI -----	68	
SUMO -----	171	
TAEKWANG -----	138	
TEAC -----	005 019 049 111 212 217	
TECHNICS -----	122 176 193 219 178 177 200 257 262	
THETA DIGITAL -----	136	
TOSHIBA -----	060 087 198 278	
WARDS -----	180	
YAMAHA -----	026 253 169 067 173 205 264 232 089 264 274 285	
ZENITH -----	143 210	

Manufacturer/Brand	Set-Up Code Number	Auxiliary Devices
3M -----	152	
AIWA -----	164	
ARCHER -----	155	
AUTON -----	191	
DMX -----	156	
DRAPER SCREEN -----	204	
DWIN -----	80	
EVERQUEST -----	206	
EXTRON -----	151	
FAROUDJA -----	184	
FUJI -----	209	
JERROLD -----	153	
JVC -----	185	
KENWOOD -----	185	
LITE-TOUCH -----	208	

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Manufacturer/Brand	Set-Up Code Number	Auxiliary Devices
LUTRON	077 158 159	
MAKITA	186 201	
MINDPATH	205	
NILES	160 187	
NSM	161	
PIANO DISC PLUS	85	
POLKAUDIO	162	
REPLAY	75	
RUSSOUND	81	
SCIENTIFIC ATLANTA	156 163	
SIMA	82	
SOLO ELECTRONICS	207	
SOMFY	078 079	
SONY	164 165 166	
STARCOM	153	
TIVO	90	
TURBOSCAN	167	
VELODYNE	203	
X-10	093 183	
XANTECH	168 169 170 171 172 188 189	

Manufacturer/Brand	Set-Up Code Number	Cable Devices
ABC	103 003 004 039 042 046 053	
AMERICAST	99	
ANTRONIX	14	
ARCHER	005 007 014	
BELL SOUTH	99	
CENTURION	92	
CENTURY	7	
CITIZEN	7	
COMBANO	080 081	
COMSAT	74	
COMTRONICS	30	
DIGICABLE	101	
EAGLE	020 030 040	
EASTERN	057 066	
EHOSTAR	106	
ELECTRICORD	32	
GEMINI	008 054	
GENERAL ELECTRIC	72	
GENERAL INSTRUMEN	103 074 104	
GNC	99	
GOLDEN CHANNEL	30	
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	52	
MITSUBISHI	102	
M-NET	37	
MOVIE TIME	028 032	
NOVAPLEX	92	
NSC	015 028 038 071	
OAK	031 037 053	
PANASONIC	044 047	

Setup Code Table

Manufacturer/Brand	Set-Up Code Number	Cable Devices
PARAGON -----	52	
PHILIPS -----	006 012 013 020 085 095	
PIONEER -----	103 034 051 063 076 105	
PRUCER -----	59	
PTS -----	011 071 074	
PULSAR -----	52	
RCA -----	47	
RECOTON -----	98	
REGAL -----	049 050	
REGENCY -----	57	
SAMSUNG -----	30	
SCIENTIFIC ATLANTA -----	003 011 041 042 043 045 046	
SIGNAL -----	30	
SIGNATURE -----	103	
SL MARX -----	30	
SONY -----	96	
SPRUCER -----	047 078	
STARCOM -----	002 004 008 009	
STARGATE -----	008 030 097 104	
TADIRAN -----	30	
TIME WARNER -----	43	
TOCOM -----	039 040 056	
TOSHIBA -----	52	
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	

Manufacturer/Brand	Set-Up Code Number	CD Devices
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 TECHNICA -----	46	
BSR -----	037 057	
CALIFORNIA AUDIO -----	103 008	
CAPETRONIC -----	63	
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 -----	35	
DENON -----	002 123	
EMERSON -----	042 069 102	
FISHER -----	050 185 134 008	
FRABA -----	111	
GENEXXA -----	010 069 102	
GOLDSTAR -----	80	
HAITAI -----	93	
HARMAN KARDON -----	018 033 047 208	

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Manufacturer/Brand	Set-Up Code Number	CD Devices
HITACHI	042 175	
INKEL	130 143 144	
JC PENNY	014 061 092 141	
JENSEN	158	
JVC	004 022 136 163 213 214 242 243	
KENWOOD	185 007 023 055 071 072 142 137	
KOSS	61	
KRELL	241	
KYOCERA	5	
LOTTE	102	
LUXMAN	011 028 070 076	
LXI	59	
MAGNAVOX	044 107	
MARANTZ	027 041 044 051 077 107 209	
McINTOSH	001, 212	
MCS	014 073 092	
MEMOREX	10	
MISSION	044 107	
MITSUBISHI	179	
MITSUMI	153	
MODULAIRE	182	
MONDIAL	147	
MYRYAD	244	
NAD	006 005 067 178	
NAKAMICHI	217 218 219 095	
NEC	014 062	
NIKKO	46	
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	
PARASOUND	233	
PHILIPS	041 044	
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	50	
SCOTT	069 102	
SHARP	026 031 051 066	
SHERWOOD	003 019 051 096 112 115 119 166	
SIGNATURE	33	
SONY	048 081 097 126 133 177 225 226 164	
SOUNDESIGN	251	
SUMO	155	
SYLVANIA	044 107	
SYMPHONIC	052 181	
TAEKWANG	195 085	
TANDY	10	
TEAC	015 034 036 051 052 101 131 140 079	
TECHNICS	060 103 200 172 184 008 068	

Setup Code Table

Manufacturer/Brand	Set-Up Code Number	CD Devices
TECHWOOD -----	76	
THETA DIGITAL -----	234 235	
TOSHIBA -----	006 067 091 160 148	
VECTOR RESEARCH -----	80	
VICTOR -----	004 022 114 124	
WARDS -----	185 033	
YAMAHA -----	024 046 054 186 183 245	
YORX -----	182	

Manufacturer/Brand	Set-Up Code Number	DVD Devices
APEX DIGITAL -----	87	
DENON -----	007 080	
GE -----	026 027	
HARMAN KARDON -----	84	
JVC -----	12	
LG -----	091 057 074	
MAGNAVOX -----	66	
MARANTZ -----	83	
McINTOSH -----	001	
mitsubishi -----	17	
NAD -----	88	
ONKYO -----	076 035	
PANASONIC -----	021 042	
PHILIPS -----	66	
PIONEER -----	023 092	
PROCEED -----	86	
PROSCAN -----	026 027	
RCA -----	026 027	
SAMSUNG -----	056 070	
SHARP -----	94	
SONY -----	33	
THETA DIGITAL -----	32	
THOMPSON -----	026 027	
TOSHIBA -----	035 034	
YAMAHA -----	042 089	
ZENITH -----	057 074 091	

Manufacturer/Brand	Set-Up Code Number	LV Devices
DENON -----	206 207	
FUNAI -----	120	
KENWOOD -----	152 013	
MAGNAVOX -----	032 121	
MARANTZ -----	211	
McINTOSH -----	001	
mitsubishi -----	121	
NAD -----	121	
OPTIMUS -----	049 013	
PANASONIC -----	113	
PHILIPS -----	32	
PIONEER -----	106 117 121	
RADIO SHACK -----	120	
RCA -----	2	
REALISTIC -----	49	
RUNCO -----	127	
SANYO -----	75	

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Manufacturer/Brand	Set-Up Code Number	LV Devices
SHARP	152 013	
SONY	053 110	
TECHNICS	113	
THETA DIGITAL	32	
TOSHIBA	152 106	
YAMAHA	043 129	

Manufacturer/Brand	Set-Up Code Number	SAT Devices
ALPHASTAR	123	
AMPLICA	50	
BIRDVIEW	129 113 051 126	
BSR	53	
CAPETRONICS	53	
CHANNEL MASTER	013 014 015 018 036 055	
CHAPARRAL	008 009 012 077	
CITOH	54	
CURTIS MATHES	50	
DRAKE	005 006 007 010 011 112 116 141 052	
DX ANTENNA	024 046 056 076	
EHOSTAR	038 040 057 058 093 094 095 096 097 098 099 100 122	
ELECTROHOME	89	
EUROSAT	114	
FUJITSU	017 021 022 027 133 134	
GENERAL ELECTRIC	151 106 150	
GENERAL INSTRUMENT	003 004 016 029 031 059 101 148	
HITACHI	139 140	
HOME CABLE	080 044 029	
HOUSTON TRACKER	033 037 039 104 057 051	
HUGHES	068 154	
HYTEK	53	
HYUNDAI	149	
ICR	23	
JANIEL	060 147	
KATHREIN	108	
LEGEND	57	
LUTRON	132	
LUXOR	144 062	
MACOM	010 059 063 064 065	
MEMOREX	57	
NEXTWAVE	028 124 125	
NORSAT	069 070	
PACE	143	
PANASONIC	142 060	
PANSAT	121	
PERSONAL CABLE	117	
PHILIPS	071 152 153	
PL	023 026	
PRESIDENT	019 102	
PRIMESTAR	110 030	
PROSAT	72	
PROSCAN	151 106 150	
RCA	151 106 150	
REALISTIC	043 074	
SAMSUNG	123	
SATELLITE SERVICE	028 035 047 085	
SONY	103	

Setup Code Table

Manufacturer/Brand	Set-Up Code Number	SAT Devices
STARCAST -----	41	
SUPERGUIDE -----	020 124 125	
TEECOM -----	023 026 075 087 088 090 107 130 137	
TOSHIBA -----	002 127	
TOWN & COUNTRY -----	023 026	
UNIDEN -----	016 025 042 043 044 045 048 049 078 079 080 086 101 135 136	
VIEWSTAR -----	115	
WINEGARD -----	128 146	
ZENITH -----	081 082 083 084 091 120	

Manufacturer/Brand	Set-Up Code Number	TAPE Devices
AIWA -----	015 071 100 114	
CARVER -----	006 008 027 024 036	
DENON -----	105 227 229	
FISHER -----	64	
GOLDSTAR -----	11	
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 -----	27	
MARANTZ -----	014 027 056 065 087	
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	
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	

Manufacturer/Brand	Set-Up Code Number	TV Devices
ADMIRAL -----	072 081 161 160	
AKAI -----	197 146	
AMARK -----	112 143	
AMPRO -----	073 167 157 183	
AMSTRAD -----	52	
ANAM -----	043 054 056 080 112 131	
AOC -----	197 004 112 058	
AUDIOVOX -----	76	
BLAUPUNKT -----	88	
CAIRN -----	201	
CANDLE -----	197 002 003 004	
CAPEHART -----	58	

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Manufacturer/Brand	Set-Up Code Number	TV Devices
CETRONIC	43	
CITIZEN	197 002 003 004 043 101 103 143	
CLASSIC	43	
CONCERTO	4	
CONTEC	043 050 051	
CORONADO	143	
CRAIG	043 054	
CROWN	043 143	
CURTIS MATHES	197 101 004 143	
CXC	43	
DAEWOO	004 016 043 044 076 103 114 125 127 143	
DAYTRON	004 143	
DWIN	177	
DYNASTY	43	
DYNATECH	62	
EIKI	187	
ELECTROHOME	024 076 143 196	
EMERSON	197 004 005 028 043 047 048 050 051 076 096 143 151 153 154 155	
FISHER	007 057	
FUJITSU	198	
FUNAI	028 043	
FUTURETECH	43	
GE	197 008 009 034 056 073 074 130 144 155 160 161 165 004 091 157 183	
GOLDSTAR	004 102 106 112 113 116 119 127 143	
HALL MARK	4	
HITACHI	004 009 010 011 012 023 075 143 158 163 166 072	
INFINITY	164	
JBL	164	
JCPENNY	197 004 008 009 024 030 065 101 143 156 160	
JENSEN	13	
JVC	034 038 070 083 145 199	
KEC	43	
KENWOOD	197 070	
KLOSS	002 059	
KMC	143	
KTV	197 043 143 154	
LODGENET	72	
LOGIK	72	
LUXMAN	4	
LXI	166 007 015 052 081 160 164	
MAGNAVOX	197 003 004 022 059 060 061 063 064 127 160 164 094	
MARANTZ	197 164	
MATSUI	164	
MEMOREX	007 072 004	
METZ	88	
MGA	197 004 024 028 042	
MINERVA	88	
MITSUBISHI	004 024 028 040 042 109 124 146 191	
MTC	197 004 062 101	
NAD	015 025	
NEC	132 130 134 197 040 016 024 056 019	
NIKEI	43	
ONKING	43	
ONWA	43	
OPTONICA	019 081	
ORION	96	
PANASONIC	034 056 080 092 164	

Setup Code Table

Manufacturer/Brand	Set-Up Code Number	TV Devices
PHILCO -----	197 003 024 056 059 060 063 064 164 004	
PHILIPS -----	197 003 004 005 038 059 093 164 127	
PIONEER -----	197 018 023 025 116 135 190	
PORTLAND -----	004 143	
PROSCAN -----	144 160 161 165 167	
PROTON -----	004 058 131 143 171 173 193	
QUASAR -----	034 056 092	
RADIO SHACK -----	019 043 143 004 127	
RCA -----	160 161 165 065 156 144 197 004 023 024 056 074 152	
REALISTIC -----	007 019 043 047	
ROCTEC -----	186	
RUNCO -----	168 169 178 179 180 181 182 183 073 157	
SAMPO -----	197 058 004 202	
SAMSUNG -----	004 050 089 101 105 127 143 160	
SANYO -----	166 007 020 053 057 082 187	
SCOTT -----	004 028 043 048 143	
SEARS -----	015 030 004 007 028 057 143 094 160 082 165 166	
SELECO -----	189 200	
SHARP -----	170 081 019 028 029 014 004 022 143 175	
SIEMENS -----	88	
SIGNATURE -----	72	
SONY -----	070 085 139 147 126 185 194	
SOUNDESIGN -----	004 028 003 043	
SPECTRICON -----	112	
SSS -----	004 043	
SUPRE MACY -----	2	
SYLVANIA -----	197 003 059 060 063 064 164 044 160 127	
TANDY -----	81	
TATUNG -----	056 062	
TECHNICS -----	034 080	
TECHWOOD -----	4	
TEKNIKA -----	002 003 004 024 028 043 072 101 143	
TELEFUNKEN -----	037 046 086 087	
TELERENT -----	72	
TERA -----	172	
TMK -----	4	
TOSHIBA -----	007 015 030 040 062 101 138	
TOTEVISION -----	143	
UNIVERSAL -----	008 009	
VIDEO CONCEPTS -----	146	
VIDIKRON -----	174 184 188 192	
VIDTECH -----	4	
WARDS -----	004 008 009 019 028 060 061 063 064 072 074 143 164 034	
WESTING HOUSE -----	76	
YAMAHA -----	197 004	
YORK -----	4	
YUPITERU -----	43	
ZENITH -----	072 073 095 103 157 183	
ZONDA -----	112	

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Manufacturer/Brand	Set-Up Code Number	VCR Devices
AIWA	034 161	
AKAI	016 043 046 124 125 142 146	
AMPRO	72	
ANAM	31	
AUDIO DYNAMICS	012 023 039 043	
BROOKSONIC	035 037 129	
CANON	028 031	
CAPEHART	108	
CRAIG	003 040 135	
CURTIS MATHES	031 041	
DAEWOO	005 007 010 065 108 110 111 112 116 117 119	
DAYTRON	108	
DBX	012 023 039 043	
DYNATECH	034 053	
ELECTROHOME	59	
EMERSON	006 017 025 027 029 031 034 035 036 037 046 101 129 131 138 153 162 116	
FISHER	003 008 009 010	
FUNAI	34	
GE	031 063 072 107 109 144 147	
GO VIDEO	132 136 155 040 115	
GOLDSTAR	012 013 020 101 106 114 123	
HARMAN KARDON	012 045	
HITACHI	004 018 026 034 043 063 137 150 160 013	
INSTANTREPLAY	31	
JCL	31	
JCPENNY	012 013 015 040 066 101	
JENSEN	43	
JVC	012 031 043 048 050 055 060 130 150 152	
KENWOOD	014 048 034 047	
LLOYD	34	
LXI	003 009 017 034 106	
MAGIN	40	
MAGNAVOX	031 034 041 067 068 156 164	
MARANTZ	012 031 067 069	
MARTA	101	
MATSUI	027 030	
MEI	31	
MEMOREX	003 010 014 031 034 053 072 101 102 134 139	
MGA	045 046 059	
MINOLTA	013 020	
mitsubishi	013 020 045 046 051 059 061 142 151 049	
MTC	034 040	
MULTITECH	024 034	
NEC	012 023 039 043 048	
NORDMENDE	43	
OPTONICA	053 054	
ORION	25	
PANASONIC	066 070 083 133 140 145 157 163 074	
PENTAX	013 020 031 063	
PHILCO	031 034 067	
PHILIPS	031 034 054 067 071 101	
PILOT	101	
PIONEER	013 021 048	
PORTLAND	108	
PULSAR	72	
QUARTZ	002 014	
QUASAR	066 145 075	

Setup Code Table

RADIO SHACK -----	123
RCA -----	013 020 041 107 109 140 144 145 147 034 040 158
REALISTIC -----	003 008 010 014 031 034 040 053 054 101
RICO -----	58
RUNCO -----	148
SALORA -----	14
SAMSUNG -----	032 040 066 102 104 107 109 112 113 115 120 122 125
SANSUI -----	022 043 048 135
SANYO -----	003 007 010 014 134 102
SCOTT -----	017 037 112 129 131
SEARS -----	003 008 009 010 013 014 081 101 017 073 112
SHARP -----	031 054 149 159 165
SHINTOM -----	24
SIGNATURE -----	34
SONY -----	003 031 052 056 057 058 076 077 078 149 154
SOUNDESIGN -----	34
STS -----	13
SYLVANIA -----	031 034 059 067
SYMPHONIC -----	34
TANDY -----	010 034
TATUNG -----	039 043
TEAC -----	034 039 043
TECHNICS -----	031 070
TEKNIKA -----	019 031 034 101
THOMAS -----	34
TMK -----	6
TOSHIBA -----	008 013 042 047 059 079 082 112 131 081
TOTEVISION -----	040 101
UNITECH -----	40
VECTOR RESEARCH -----	12
VICTOR -----	48
VIDEO CONCEPTS -----	012 034 046 141
VIDEOSONIC -----	40
WARDS -----	003 013 017 024 031 034 040 053 054 131
YAMAHA -----	012 034 039 043
ZENITH -----	034 048 056 058 072 080 101

Specifications

Operating range

40 ft ~ 60ft, depending upon components

Power Requirements

6 Volt DC

Battery Requirements

4 - Size AA 1.5 Volt

Overall Dimensions

3 inches (7.62cm) Wide, 8-7/8 inches
(22.54cm) High, 1-1/2 inches (3.81cm)
Depth

Weight

0.5 pounds (0.2268 Kg) net, 1.05 pounds
(0.47628 Kg) shipping

Packing Instructions

In the event it is necessary to repack the equipment for shipment, use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or the interior packing is needed, please call or write Customer Service Department of McIntosh Laboratory. Please see the Part List for the correct part numbers.

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	034183	Shipping carton
1	034184	Foam Assembly

McIntosh

REMOTE CONTROL PRODUCTS ONE YEAR LIMITED WARRANTY

Welcome to the family of McIntosh owners. This is the Warranty for your new McIntosh Home Electronic Product (the "Product"). Your Product has been designed to give many years of trouble-free performance. Nonetheless, failures do sometimes occur even with equipment as well-built as McIntosh's. Therefore, please read this Warranty carefully, because it contains rights, as well as limitations, exclusions, and obligations, which in the event of such a failure may be very important to you. If after reading it thoroughly, you have any questions about the Warranty, please do not hesitate to write or telephone McIntosh at the address or phone number shown on the back of this warranty. Please note that this is the only

Warranty which McIntosh provides for your Product, and that no one, including your dealer, has any authority to either modify or expand upon this Warranty. If your dealer has offered or made any warranties or representations concerning the Product which differ from those contained in this Warranty, they are strictly between you and the dealer, and will neither be binding upon McIntosh nor change any of the provisions in this Warranty. Please also note, that if your Product ever does require Warranty service, obtaining such service will be much easier if you have completed and returned the enclosed Warranty Registration Card. So please take a minute to fill out and return the Registration Card now, before you become too distracted by the great sounds coming from your new McIntosh Product!

Scope and Duration of Warranty

Subject to the terms and conditions stated below, McIntosh Laboratory, Inc. ("McIntosh") warrants to the original owner that this Product shall be free from defects in workmanship or materials for a term of one (1) year from the date when it was purchased from an Authorized McIntosh Dealer.

Limitations on Persons and Products Covered by this Warranty

This Warranty and all rights provided here under are limited to the original owner. In the event that the original owner transfers ownership of the Product prior to expiration of the one-(1) year term, this Warranty shall terminate in its entirety upon the date of such transfer. In addition, McIntosh does not warrant in any way Products which are purchased from anyone who is not an Authorized McIntosh Dealer, or which have had their Authenticity Numbers altered or defaced. Therefore this Warranty is void and inapplicable if this Product has been purchased from someone other than an Authorized McIntosh Dealer, or has had its original Authenticity Numbers altered or defaced.

Geographical Limitations

This Warranty has been included with a McIntosh Product that is designed, intended to be sold and used only within the United States and Canada. Accordingly, this Warranty only applies to Products which are purchased in the United States or Canada, and only applies while such Products are used in the United States or Canada. Products purchased outside the United States or Canada, and failures occurring outside the United States or Canada, are not covered by this Warranty.

What McIntosh will do under the Warranty

In the event of any defect covered by this Warranty, McIntosh shall without charge provide all parts, materials, and labor necessary to restore the Product to its original specifications. After repair, McIntosh shall return the Product to its owner at the owner's expense. In the alternative, McIntosh may at its sole option either replace the Product without charge, or if replacement is not commercially practicable or repair or replacement cannot be accomplished within a reasonable time, McIntosh may refund the purchase price of the Product, subject where appropriate to reasonable depreciation for actual use in accordance with applicable laws, in full satisfaction of its warranty obligations. McIntosh or its Authorized Service Agency will undertake to complete the repair and return of the Product as soon as circumstances permit, unless prevented by causes beyond their reasonable control.

Limitations on McIntosh's Obligations under the Warranty

McIntosh's sole Obligation under this Warranty shall be to repair or replace the Product, or at its option refund the purchase price, as provided for herein above. McIntosh does not warrant against, nor shall it be liable for, any of the following: removal or installation charges; shipping expenses either to or from McIntosh or its Authorized Service Agency; loss of use; property damage of any kind; or other incidental or consequential damages or losses of any kind.

Note: Some states do not allow exclusion or limitation of consequential damages, so the foregoing exclusions may not apply to you.

Parts and Occurrences that are not Covered by the Warranty

This Warranty does not cover any of the following: (a) glass panels, cabinetry, trim, or other appearance items (except where they are defective at the time of original sale and the Product is delivered for repair within the first thirty (30) days thereafter); (b) failures arising from accident, catastrophe, misuse, neglect, or failure to properly connect and operate the Product in accordance with the accompanying instructions; (c) failures arising from improper installation of the Product; or (d) failures arising from any tampering, alteration, or attempted servicing of the Product by anyone other than McIntosh or an Authorized McIntosh Service Agency; and McIntosh shall have no liability or obligation of any kind with respect to any of the foregoing types of failures.

What the Owner must do to obtain service under this Warranty

To obtain service under this Warranty, the owner must at the owner's expense arrange for any necessary de-installation of the Product, and deliver or ship the Product to McIntosh at the address below, or to an Authorized McIntosh Service Agency, properly packaged, prepaid, and insured at the owner's expense. In addition, the owner must provide evidence that the Product is at the time of delivery within the scope of his Warranty, by either having completed and submitted to McIntosh on a timely basis the accompanying Authenticity Number Registration Card, or by including the original sales receipt (photocopies are not acceptable) with the Product when it is delivered for repair.

What the Owner must Pay For

As noted above, the owner must pay any expense of removing the Product from its installation, and must pay any expenses for delivery of the Product to McIntosh or the Authorized McIntosh Service Agency. Upon return of the Product to the owner following repair, it shall be the owner's responsibility to pay for the shipping charges incurred in return of the Product, as well as to arrange and pay for any re-installation which may be required. In addition, it shall be the owner's obligation to pay for any repairs made to Product for which the owner has neither completed and submitted the Authenticity Number Registration Card at the time of purchase nor included the original sales receipt with the Product when delivered for service, at McIntosh's or its Authorized Service Agency's then-current repair rates.

How to learn where the nearest Authorized McIntosh Service Agency is, or obtain answers to other questions concerning this Warranty

In order to learn the name and address of the nearest Authorized McIntosh Service Agency, obtain instructions for shipment of a covered Product to McIntosh, or obtain the answers to any other questions you may have concerning this Warranty, you may telephone McIntosh's Customer Service Department between the hours of 9:00 a.m. and 4:30 p.m. Eastern Time, Monday through Friday, at 607-723-3512, or write to McIntosh at 2 Chambers Street, Binghamton, New York 13903-2699, Attention: Customer Service Department.

Note: This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

McIntosh[®]

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, NY 13903

McIntosh Part No. 040774

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