

Universal learning remote

with LCD touchscreen and integrated atomic clock



User's Guide



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So the Story Goes...

With the Acoustic Research brand, we strive to bring the latest technology to your home. But it doesn't just stop there...after all, what good is technology if it doesn't enhance your life? Take charge of your home entertainment center and eliminate the clutter of unnecessary remotes with the Acoustic Research ARR1540 remote control.

It's about time. Remote technology makes life easier and more enjoyable, which is why this remote has been designed to give you total command of your home theater—at the press of a single key. Its sophisticated design and latest LCD touchscreen technology make it easy to customize and allow you to control up to 15 compatible components of the most popular brands of home theater equipment. And it simplifies how you manage your entertainment options with learning features and an integrated atomic clock that will always be accurate.

Simply put, this remote lets you take the time to enjoy your life.

Battery Information

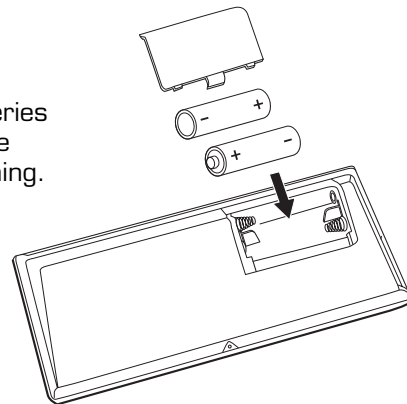
Your ARR1540 Universal Learning Remote with Touchscreen requires 2 AA batteries (sold separately). When the batteries are low, a “low battery” icon appears on the LCD screen. Replace the batteries at this time. Every time the batteries are replaced, the non-volatile memory retains everything you've programmed, so you never have to worry about losing anything.

Installing the Batteries

1. Turn the unit over, push on the tab and slide the battery cover up.
2. Insert the batteries, matching them to the (+) and (-) marks inside the battery compartment.
3. Replace the battery cover.

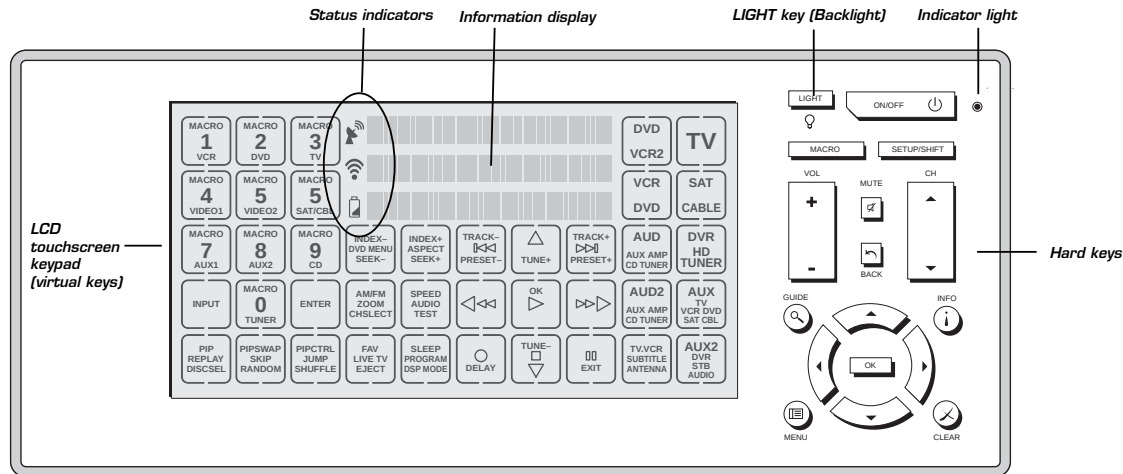
Battery Saver

Your remote control conserves battery power by automatically turning off if any key is pressed for more than 60 seconds. This saves the batteries should your remote get stuck in a place where the keys remain depressed for an extended period.



Chapter 1: Getting Started

Overview of the ARR1540 Touchscreen Remote



This illustration shows the placement of all the touchscreen (virtual) keys as they are preset at the factory.

Information Display

During normal operation, this dot matrix area displays the following: time/day of the week, current mode of operation, and the indoor temperature. During setup and use, this area also provides other instructions and feedback.

Status Indicators

Located to the left of the information display are three indicators: atomic clock synchronization, infrared signal, and low battery.



Atomic clock synchronization icon – Indicates when the remote has successfully received a signal from the National Institute of Standards and Technology (NIST) to set the atomic clock.



Infrared (IR) signal icon – Indicates when the remote is communicating with a component (TV, VCR, DVD player, etc.).



Low battery icon – Indicates when the batteries need to be replaced.

Keys on the Remote Control

Hard Keys

The rubber keys on the right side of the remote bring up the Setup menu and operate the features you use most — like changing channels and adjusting the volume. We'll refer to these keys as “hard keys” throughout this user's guide.

(Listed in alphabetical order)

Arrow keys — Select menu items for compatible components. These keys can also be used to set up the remote, like the LCD touchscreen arrow keys.

BACK — Allows you to go to the previous channel you selected.

CH (Channel) up and down keys — Go to the next or previous channel on a compatible component. Also scroll through some menu items.

CLEAR — Clears menu items or menus for compatible components.

GUIDE — Displays the on-screen program listing for compatible components (if available).

Indicator light — Lights up when any hard key or virtual key is pressed, flashes four times to indicate an error condition, or lights up to signal atomic clock synchronization.

INFO — Displays on-screen information for a compatible component.

LIGHT — Turns the touchscreen backlight on and off.

MACRO — Used together with virtual macro keys to string together a series of commands with a single keypress.

MENU — Displays the setup menus for compatible components. This key is different than the SETUP/SHIFT hard key, which is used in setting up the remote.

MUTE — Mutes the volume for a compatible TV or audio receiver.

OK — Selects menu items for compatible components. This key can also be used to set up the remote, like the LCD touchscreen OK key.

ON/OFF — Turns on and off a compatible component (TV, VCR, DVD player, etc.)

SETUP — Allows you to enter the remote control's Setup menu and scroll through the options in most menus. Press and hold the SETUP key to bring up the Setup menu.

SHIFT — Allows you to toggle through the components using the aux keys. Also brings up the LCD touchscreen if it has timed out.

VOL (Volume) + /- keys — Increase or decrease the volume for a compatible TV or audio receiver.



Virtual Keys

The keys on the left side of the remote in the touchscreen area are used for setting up your remote control, programming your components, and for operating the more advanced functions of your components. For example, changing video input channels on your TV. We'll refer to these keys as "virtual keys" or touchscreen keys throughout this user's guide.

LCD Touchscreen Keypad

The LCD touchscreen keypad consists of 40 virtual keys for programming the remote and using your components. The touchscreen area remains blank when the remote is not in use; and only the time/date and indoor temperature are displayed. Press the touchscreen keypad to activate it. You can also use the SETUP/SHIFT hard key.

When the touchscreen is activated, it displays the last active component mode (TV, VCR, DVD, etc.) screen. For example, if you were using the remote in the TV mode the last time you used it, the TV mode screen would appear again. The remote remains in the last mode you used until you press another component key.

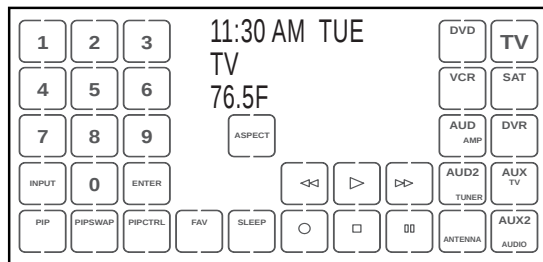
Note: *If the touchscreen is inactive for more than 10 seconds, it turns off to conserve battery power. You can change the LCD On Time located in the Setup menu.*

Chapter 2: Programming

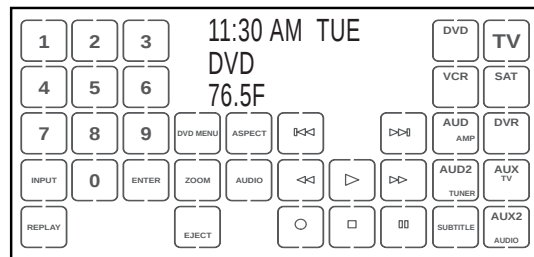


Component Mode Screens

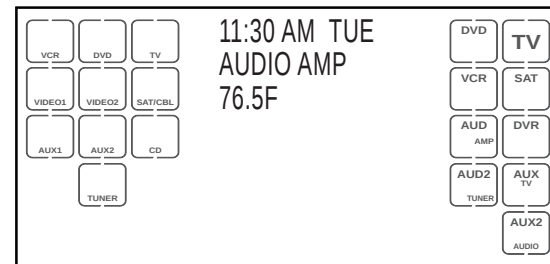
Here are some of the screens that appear when you press the key for the component you have programmed. For example, the TV mode screen shows TV functions.



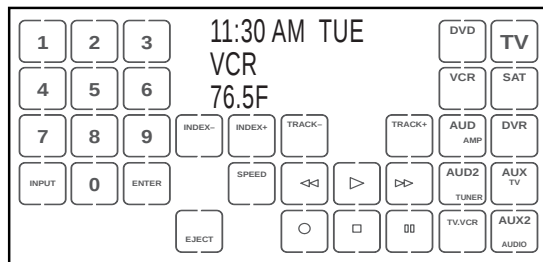
TV mode screen



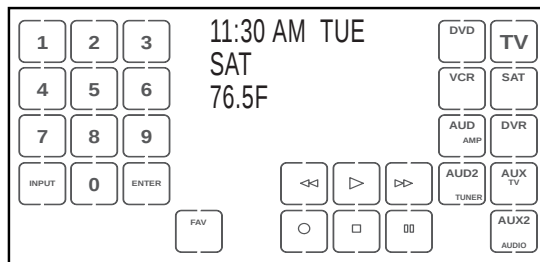
DVD player mode screen



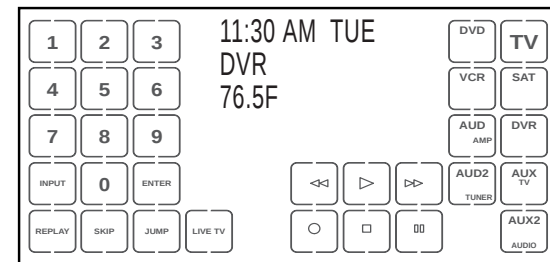
Audio amplifier mode screen



VCR mode screen



Satellite receiver mode screen



DVR mode screen

These screens show all keys available. The actual keys displayed depend on the code for your component.

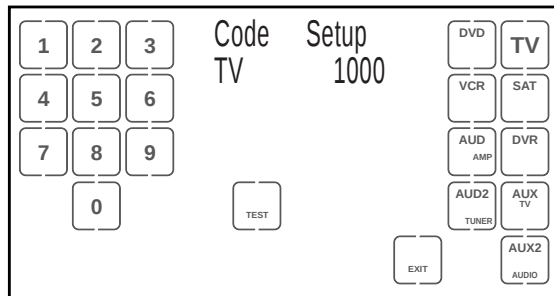
DIGIT	TV	VCR	DVD	DVR	SAT/ CBL	AUD AMP	AUD TUNER	AUD AUX	CD
1	1	1	SETUP	1	1	VCR	1	VCR / 1	1
2	2	2	INSTANT REPLAY	2	2	DVD	2	DVD / 2	2
3	3	3	TOP MENU	3	3	TV	3	TV / 3	3
4	4	4	-	4	4	VIDEO 1	4	VIDEO1 / 4	4
5	5	5	-	5	5	VIDEO 2	5	VIDEO2 / 5	5
6	6	6	-	6	6	SAT/CBL	6	SAT/CBL / 6	6
7	7	7	ANGLE	7	7	AUX1	7	AUX1 / 7	7
8	8	8	TITLE	8	8	AUX2	8	AUX2 / 8	8
9	9	9	ZOOM	9	9	CD	9	CD / 9	9
0	0	0	OPEN/CLOSE	0	0	TUNER	0	TUNER / 0	0

This chart shows how the touchscreen digit keys function when the remote is in its respective mode and you are attempting to control compatible components.

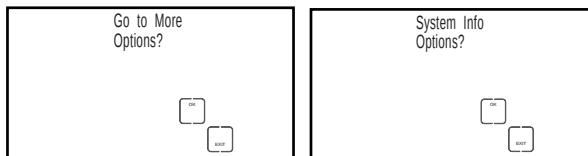
The digit keys to the left indicate what key you would press for each component mode. For example, to bring up the setup menu in **DVD** mode for a compatible DVD player, you would press the number 1 key. Similarly, the **AUD AMP** (Audio amp) column designates how to change the input channel for that device, etc.

Using the Auxiliary Keys

When using the AUX keys after they have been programmed, press the SETUP/SHIFT key then press the desired AUX key repeatedly to scroll through your programmed component modes. For example, press SETUP/SHIFT then AUX or AUX2 until VCR appears. After 5 seconds, SHIFT will timeout, so you'll need to press it again to toggle the AUX modes again.



Code Setup, the first screen of the Setup menu.



The two submenus of the Setup menu, *Go to More Options* and *System Info Options*.

Setting up the Remote

The Setup menu is the main menu system of the remote and where you program the remote to control all your components and set up the advanced features, such as macros, timers, and key labels.

To display the Setup menu, press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears. Press and release the SETUP/SHIFT key or CH +/- keys to toggle through the available menus.

The Setup menu has two submenus you'll want to get familiar with: *More Options* and *System Info Options*. These menus allow you to customize your remote even more, including setting how long the LCD touchscreen is displayed, time and temperature settings, and resetting the remote to the factory defaults. Both submenus are described in the next few chapters.

You can exit the Setup menu in three ways:

- Press the EXIT key on any of the screens. Then press the OK key to confirm.
- Scroll to *Exit Setup Menu?* in the menus using the SETUP/SHIFT or CH +/- keys, then press the OK key to confirm.
- Let the menu timeout by not pressing any keys (your settings will not be saved, however).

(continued on next page)

Below are the options in the Setup menu:

- Code Setup
- Define New Macro
- Code Search
- Setup an Event Timer
- Key Labels
- Go to More Options?
- Learn New Keys
- Exit Setup?

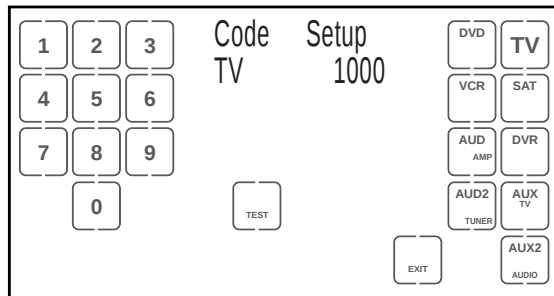
Programming the Remote

This remote can operate a variety of brands of components. In order for your remote to control your components, you need to program it for each component. This enables the remote to communicate with your components. Each component has its own “language,” and by programming the remote, you tell the remote to “speak the same language” as your components.

There are two methods of programming the remote: Direct Entry and Code Search. Most components can be programmed in one of these ways. Try them in the order listed.

In order to control combo units, like TV/VCRs, TV/DVDs, or TV/VCR/DVDs, you must program the corresponding component keys separately. For example, to control the DVD part of the unit, you need to program the DVD key; for the TV part, you need to program the TV key. There is a specific section in the Code List for combo units. The codes in this section should be tried first, using Direct Code Entry on the TV and DVD (or VCR) keys. If this is unsuccessful, follow the normal programming methods for the TV, DVD, or VCR keys.

While programming your remote, you may want to extend the LCD touchscreen display time (see the “Setting How Long the LCD Touchscreen is Displayed” section).



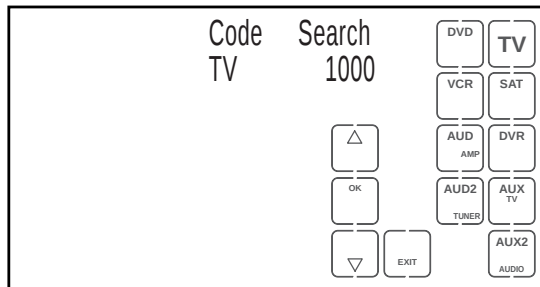
Direct Entry Method (Code Setup)

This programming method allows you to enter codes for your component brand directly, which is the quickest way to program your remote. The codes can be found on the enclosed Code List sheet.

1. Manually turn on the component you want to control (TV, VCR, DVD, PVR/DVR, etc.).
2. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears briefly. Then *Code Setup* appears.
3. Press the component key on the touchscreen for the component you want to program (TV, VCR, SAT, etc.). For AUX and AUX2, press and release the AUX or AUX2 key until the desired component appears in the display.
4. Enter the four-digit code for your component brand from the corresponding Code Lists on the enclosed sheet. If your brand has more than one code listed, begin with the first code. When a valid code from the list is entered, *Success* appears. For an invalid code entry, *Invalid Code* appears.

The remote automatically tests the code to verify it is valid.

5. If invalid code appears or your component does not respond, try the next code in the list, repeating steps 4-5. If no other codes exist for your brand, try the Code Search method.
6. Repeat steps 1-5 for any other components you want the remote to operate.
7. When finished, press EXIT. Then press OK to exit the Setup menu.



Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

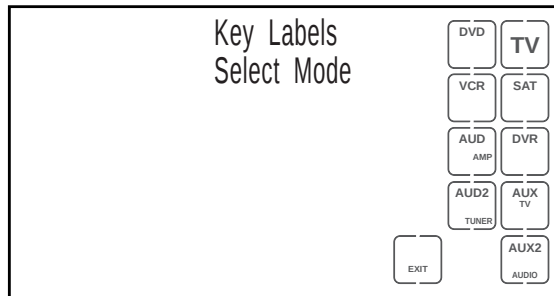
Note: The Code Search starts from the currently stored code under that mode. For example, if the component Code List contains 100 codes and the currently stored code is 1050, the Code Search starts from 1051 and continues to 1100 before looping back to 1000 and finishing at 1050. This speeds up the process of finding the correct code for your component, since you may discover that some codes can turn your component on and off but are not able to control its other functions.

Code Search Method

If the component you want to control does not respond to any of the codes you have entered using Code Setup (direct entry), you can search the entire Code List for a code that will control your component. A particular component might not be listed in the Code List or might be listed under a different brand, so this would be a more comprehensive search.

1. Manually turn on the component you want to control (TV, VCR, DVD, PVR/DVR, etc.).
2. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears briefly. Then *Code Setup* appears.
3. Press and release SETUP/SHIFT or the CH +/- keys until *Code Search* appears, then press the component key on the touchscreen for the component you want to program (TV, VCR, SAT, etc.). For AUX and AUX2, press and release the AUX or AUX2 key until the desired component appears in the display.
4. Point the remote at the component you want to program, and press the ON/OFF key. *Searching* appears... and the remote begins searching all the available codes for your component. This may take several minutes. The code being tested appears on the touchscreen.

To speed up Code Search, press the up and down arrow keys at one-second intervals. If your component responds to the command, and the next code is tried before you have a chance to press OK, you can backtrack through the Code List by pressing the down arrow key. You can change the direction to forward once again by pressing the up arrow key.
5. Once the component turns off, press OK to save the code.
6. When finished, press EXIT. Then press OK again to exit the Setup menu.



Key Labels

Changing Key Labels

With your remote, you have the ability to customize the virtual key labels to meet your needs, changing them to match the functions on your components' remote controls. Use this feature only after you have finished programming the remote to operate all your components. You can select from multiple preset key labels or choose to show only the key frame or hide the key completely.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Key Labels Select Mode* appears, then press the component key on the touchscreen for the set of keys you want to change. *Select Key* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release the touchscreen key you want to change until the desired preset label appears.
4. To change other key labels, repeat step 3.
5. Press SETUP/SHIFT to save your changes. *Save Changes?* appears. Press OK. *Changes saved* appears.
6. To choose another component key set to change, press the component key for the set and repeat steps 3-5.
7. When finished, press EXIT. Then press OK to exit the Setup menu.

To cancel at any time, press the GO BACK key. *No Changes Made* appears.

Editing Key Labels

You can also name your key labels to match the learned keys from your original remote or give any key a customized name when the key is pressed. Your customized key name is displayed in the information display under the component mode you are currently using (TV, VCR, etc) when you press it.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Key Labels Select Mode* appears, then press the component key on the touchscreen for the set of keys you want to change. *Select Key* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and hold the key on the touchscreen you want to change until *Key Name?* appears. The default key name is shown.
4. Use the up and down arrow keys to choose the first letter, and the left and right arrows to move to the next letter.
5. When finished naming the label, press OK. *Save Changes?* appears. Press OK again. *Changes saved* appears.
6. To rename other keys for the same component mode, repeat steps 3-5.
7. Press SETUP/SHIFT to save your changes. *Save Changes?* appears. Press OK. *Changes saved* appears.
8. To choose another component key set to change, press the component key for the set and repeat steps 3-7.
9. When finished, press EXIT. Then press OK to exit the Setup menu.

To cancel at any time, press the GO BACK or EXIT key. *No Changes Made* appears.

Note: A key will only be displayed if it is supported by the code of your component or is a learned key.



Resetting All Key Labels

You can reset all key labels for all modes back to the factory defaults with this feature.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press OK. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Clear All Key Labels* appears, then press OK.
4. *Clear All Key Labels? Pls Confirm* appears. Press OK to confirm. All key labels reset to the factory defaults.
5. When finished, press EXIT. Then press OK to exit the Setup menu.

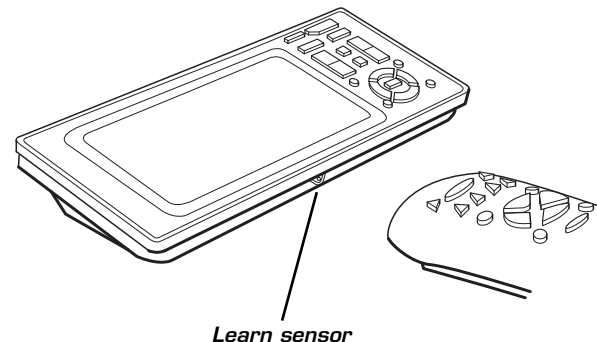
To cancel at any time, press EXIT. *No Changes To Key Labels* appears.

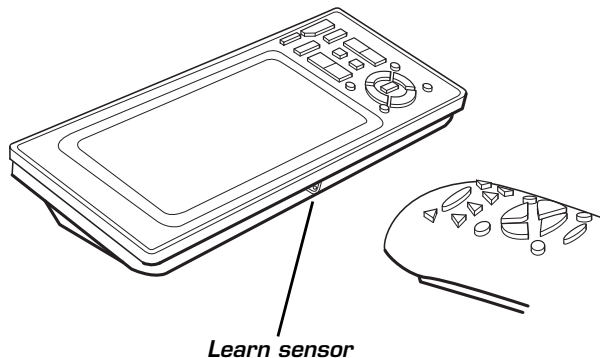
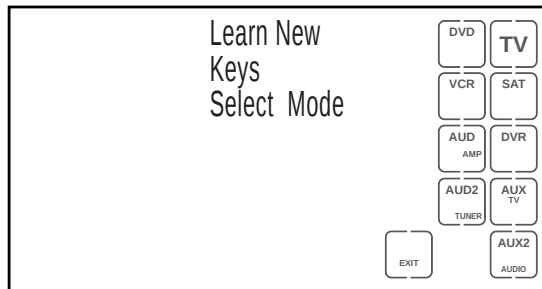
Learning Keys

Learning Tips

Before transferring commands from your original remote to the ARR1540, check out these useful tips on Learning.

1. Make sure you are using fresh batteries in both the ARR1540 and your original remote(s).
2. Point the top of the original remote at the bottom of the ARR1540 so the IR LED on the original remote is in line with the ARR1540's Learn sensor.
3. The distance between the two remotes should be approximately 2-3 inches.
4. To ensure that your units are compatible and to increase your familiarity with the Learning process, you may want to experiment by learning two or three keys initially. Then, clear all learned keys before learning all the desired functions from your original remote (see page 20).
5. Incandescent or low-energy light can cause interference with the infrared transmissions between the remotes (how the remotes communicate to each other). When using the Learning function, keep the remotes at least three feet away from such light sources.
6. When learning a key, do not release the key on your original remote until *Learning Success* appears on the touchscreen, which takes approximately 2-3 seconds. Until this occurs, *Learning New Key...* appears.
7. If there is a problem during the Learning process, *Learning Error* appears.
8. All Learned keys are saved automatically.
9. When the memory is full, *Learning Memory Full* appears and the indicator light flashes for two seconds. It isn't possible to learn any additional keys without first clearing all learning memory (see page 20).





Learning New Keys

Your remote has the ability to learn and store commands from your original remote(s) under the mode(s) of your choice. You can learn 400 keys total.

Codes from the Code Lists include basic functionality for each component the remote operates. Once you have programmed the remote to control your component, you can customize your remote to include certain functions from your original remote(s) that the codes may not cover. This allows you to transfer most functionality from existing remotes to your ARR1540 remote.

1. Gather all the remotes that you want to learn and have them all lined up on a flat surface before going into the Learn New Keys mode.
2. Point the top of the first remote at the bottom of the ARR1540 so the IR LED on that remote is in line with the ARR1540's Learn sensor. The remotes should be positioned 2-3 inches apart.

Tip: If you want to learn from a universal remote, you must press the component key on that remote to select the desired mode before proceeding with Learning. For example, pressing the VCR key on your original universal remote will allow your ARR1540 to learn from that component mode.

4. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

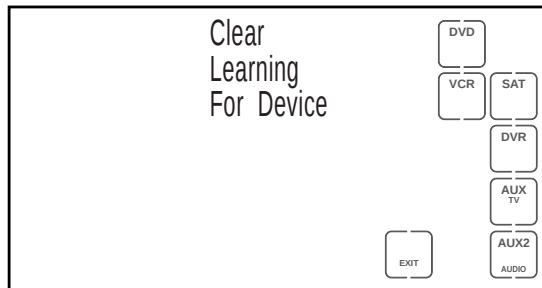
5. Press and release SETUP/SHIFT until *Learn New Keys Select Mode* appears, then press the component key on the touchscreen for the set of keys you want to learn. *Select Key* appears.
6. Press the touchscreen key or hard key you want to learn to. *Learning New Key...* appears.

Note: You can't learn any commands under the *SETUP/SHIFT*, *MACRO*, *LIGHT* or any component keys on the touchscreen.

7. Press and hold the original remote key you want to transfer to the ARR1540 until *Learning Success* appears. This process can take 2-3 seconds to complete. **Do not move the remotes during the learning process.**
8. Release the original remote key. If there is a problem during the Learning process, *Learning Error* appears. If this happens, try adjusting the distance between the remotes slightly and repeat steps 6-7.
9. *Key Name?* appears, allowing you the option to change the name. Use the up and down arrow keys to choose the first letter, and the left and right arrows to move to the next letter.
10. When finished naming the key, press OK on the touchscreen. *Save Changes?* appears. Press OK again. *Changes saved* appears.
11. Repeat steps 6-10 for other keys to be learned.
12. When all the original remote commands have been learned, press *SETUP/SHIFT* to save the changes. *Learning Completed* appears.
13. To learn from other remotes, press the component key you want to learn to and repeat steps 6-12.
14. When finished, press EXIT. Then press OK to exit the Setup menu.

If *Learning Memory Full* appears when you try to learn a new key, you need to clear the learned memory before you can learn new keys.

- To clear all learned keys when *Clear All Learning Memory* appears, press the OK key on the touchscreen. *Clearing All Learned Memory* appears. All learned keys for all components are cleared.
- To clear only a specific set of learned keys for a component, see the Deleting All Learned Keys for a Specific Component section on page 20.
- To exit without clearing any learned keys, press EXIT. Remember, you won't be able to learn additional keys.



Deleting All Learned Keys for a Specific Component

You can delete all learned keys for a specific component with this feature.

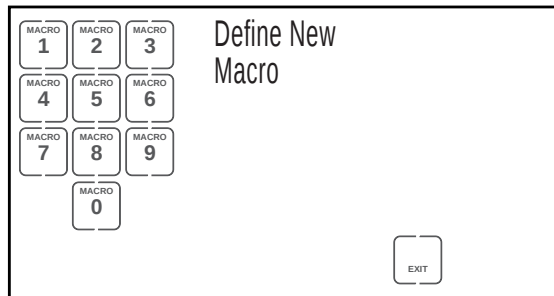
Note: If no learned keys have been programmed, this option doesn't appear in the Setup menu.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Clear Learning For Device* appears, then press the component key on the touchscreen for the learned keys you want to delete. *Clr TV (VCR, DVD, etc.) Learning? Pls Confirm* appears.
4. Press OK to confirm. *TV Learning Cleared* appears.
5. To delete additional learned keys, select another component and repeat step 4.
6. When finished, press EXIT twice. Then press OK to exit the Setup menu.

To cancel at any time, press EXIT. *No Learning Cleared* appears.



Here's an example of a macro and what the remote would do when running it:

1. Turn on the TV and tune it to channel 3.
2. Turn on the satellite receiver and tune it to channel 57.
3. Turn on the VCR and start recording.

Macros

Programming Macros

Any sequence of commands that you regularly perform can be programmed as a macro and reduced to a single key press. A total of 25 commands can be stored under each of the 10 available macro keys.

You can even add delays between Learned commands. This might be necessary if a component needs time to warm up before turning on, for example.

The sequence of commands you want a macro to execute must be programmed in correct sequential order. Also, you cannot program a macro within a macro or link macros together.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Define New Macro* appears, then press the macro key on the touchscreen you want to program. *Select Macro#* (1-10, etc.) *Mode* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press the component key for the first component you want to program (TV, VCR, etc.). *Select Macro# Keys* appears.
4. Press the key you want to add to the macro. *Key Stored in Macro#* appears. Remember, if you want to change to a different component, press the component key before adding the command key. For example: TV, INPUT, DVD, PLAY.

(continued on next page)



5. To add additional commands, repeat steps 3-4.
6. Press SETUP/SHIFT to save the macro. *Save Macro #?* appears.

You now have 4 options:

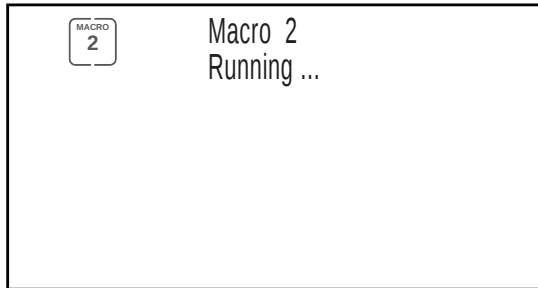
- To save, press OK on the touchscreen. *Macro # Saved* appears. Then *Change Macro # Name?* appears, allowing you to change the name.
 - To add a delay between the commands, press DELAY on the touchscreen. *Key Delay* appears. Use the up and down arrows on the touchscreen to adjust the desired delay, and press OK to go to the next command. The default is .5 seconds between each key press. *Save Delay Changes* appears after the last key press. Press OK to confirm. *Macro # Saved* appears. Then *Change Macro # Name?* appears, allowing you to change the name.
 - To test the macro, point the remote at your components and press TEST on the touchscreen. *Macro # Running...* appears. After the macro runs, press OK on the touchscreen. *Macro # Saved* appears. Then *Change Macro # Name?* appears, allowing you to change the name.
7. You may now change the name or keep it the same.
 - To change the name, press OK. *Macro # Name?* appears. Use the up and down arrow keys to choose the first letter, and the left and right arrows to move to the next letter. When finished naming the macro, press OK. *Save Changes?* appears. Press OK again. *Changes saved* appears.
 - To keep the same name, press EXIT. *Macro # Name Not Changed* appears.

8. To program other macros, press the macro key on the touchscreen you want to program, and repeat steps 3-7.

9. When finished, press EXIT. Then press OK to exit the Setup menu.

To cancel at any time, press EXIT. *Macro # Not Saved* appears.

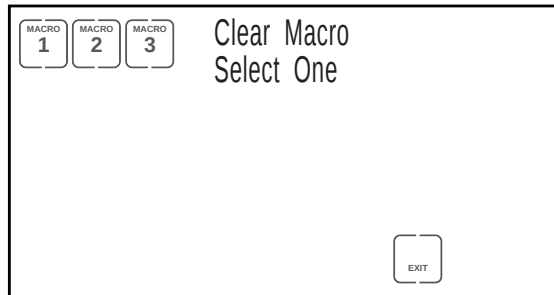
Tip: You may want to replace an existing macro with a new one, instead of deleting it. To overwrite a macro, choose the macro you want in step 2 above. *Overwrite Macro # (1, 2, etc) appears*. Press OK to delete the macro. Then choose the macro again to reprogram it.



Running a Macro

Note: You need to have a macro programmed to use this feature (see *Programming Macros*).

1. Press the MACRO hard key. *Choose Macro or Sleep Timer* appears.
2. Press the macro key on the touchscreen you want to run. *Macro # (0-9, etc) Running* appears.



Deleting a Macro

Notes: Any event timers associated to the macro are also deleted with this function.

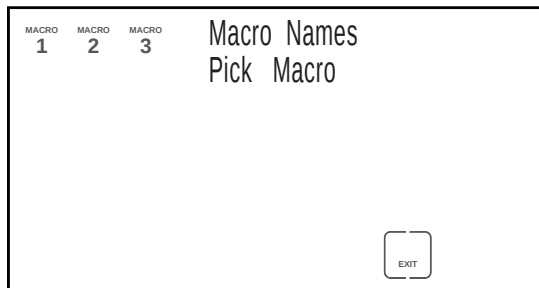
If no Macros have been programmed, this option doesn't appear in the Setup menu.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Clear Macro Select One* appears, then press the Macro key on the touchscreen you want to delete. *Clear M# (M2, M3, etc) Pls Confirm* appears for the macro number you have selected.
4. Press OK to confirm. *Macro# cleared* appears.
5. To delete additional macros, select another macro and repeat step 4.
6. When finished, press EXIT twice. Then press OK again to exit the Setup menu.

To cancel at any time, press EXIT. *No Macros Cleared* appears.



Reviewing Macro Names

This feature shows you what your macros are named, which is especially convenient if you have programmed multiple macros.

Note: *If no macro keys have been programmed, this option doesn't appear in the Setup menu.*

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: *You can also use the CH+/- keys to scroll forward or backward through the Setup menus.*

3. Press OK. *Learning Memory Used* appears.
4. Press and release SETUP/SHIFT until *Macro Names Pick Macro* appears.
5. Press the macro key number for the one you want to see. The name of the macro appears.
6. To review other macro names, select another macro key.
7. When finished, press EXIT three times. Then press OK to exit the Setup menu.

Time and
Temperature
Settings?

OK

EXIT

Tip: You can scroll faster if you press and hold the arrow keys.

Setting the Time and Temperature

This feature allows you to set the time, date, and inside temperature (including synchronizing the atomic clock). Keep in mind that this must be set correctly before Event Timers can be programmed.

The atomic clock in the ARR1540 provides extremely accurate timekeeping by synchronizing the current time with the atomic radio signal generated from Colorado. The LCD touchscreen is blank and the indicator light is on when the remote is receiving the information. You never have to reset this clock once you have selected the settings in the Time and Temperature Options.

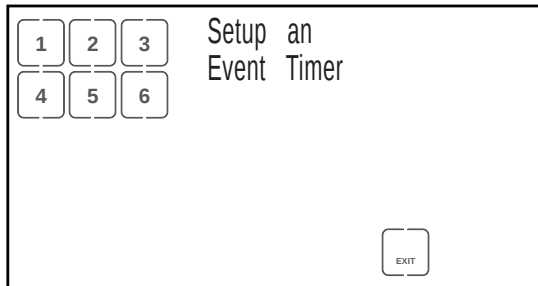
Note: You must select your settings in the Time and Temperature Options before the Atomic Clock provides accurate timekeeping.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Time and Temperature Settings?* appears, then press OK. *Temperature Units* appears.
4. Press the arrow keys to set the desired units (Fahrenheit: F or Celsius: C).
5. Press OK to confirm. *Time Format* appears.
6. Press the arrow keys to set the desired format (12 hour or 24 hour).
7. Press OK to confirm. *Daylight Savings* appears.

8. Press the arrow keys to set the desired setting (Yes or No).
 9. Press OK to confirm. *Time Zone appears.*
 10. Press the arrow keys to set the desired time zone (Eastern, Pacific, Mountain, or Central).
 11. Press OK to confirm. *Current Year appears.*
 12. Press the arrow keys to set the year.
 13. Press OK to confirm. *Current Month appears.*
 14. Press the arrow keys to set the month.
 15. Press OK to confirm. *Current Day of Month appears.*
 16. Press the arrow keys to set the day.
 17. Press OK to confirm. *Current Hour appears.*
 18. Press the arrow keys to set the hour. For AM/PM, repeatedly scroll through the hour settings until you reach the desired setting.
 19. Press OK to confirm. *Current Minute appears.*
 20. Press the arrow keys to set the minute.
 21. Press OK to confirm. *Retrieve RCC signal?* appears, asking if you want to synchronize the time.
 22. If you want the remote to find the Radio Controlled Clock signal automatically, press OK. This may take up to ten minutes. The display is blank during this time and the indicator light is on. This is normal.
 23. When finished, press EXIT twice. Then press OK to exit the Setup menu.
- To cancel at any time, press SETUP/SHIFT.



Note: You must set the time and day before you set an event timer (see page 26). Also, at least one macro must be programmed to set an event timer.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

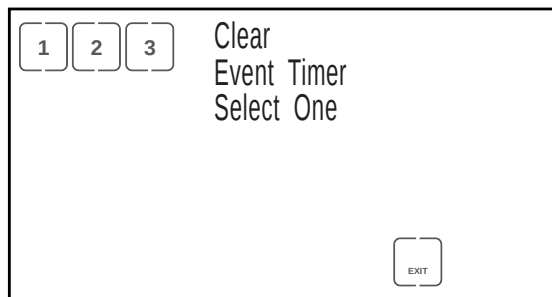
Setting an Event Timer

The Event Timer lets you program your remote to turn a component (TV, VCR, AUDIO, etc.) on or off at the preprogrammed time using a macro. For example, you can program your remote to control audio equipment to turn music on, program your TV as a Sleep Timer to turn off at a certain time, or program your VCR to turn on and record. Up to 6 timer events can be set. After setting up your Event Timer, be sure to leave the remote pointed at the component(s) you have programmed it to control. They will have to be in the remote's line-of-sight in order for this feature to work.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Setup an Event Timer* appears, then press the event timer key on the touchscreen you want to set up. *Pick Macro for Timer # (1, 2 etc.)* appears.
3. Press the macro key on the touchscreen you want to add. *Set Start Timer Hour* appears.
4. Use the arrow keys to set the hour, and press OK. *Set Start Timer Min* appears.
5. Use the arrow keys to set the minutes, and press OK. *Timer Frequency* appears.
6. Use the arrow keys to set how often you want the event to happen (*One Time, Every Day, and Weekly*). Then press OK.
 - If you choose One Time or Weekly, *Day of Week?* appears. Use the arrow keys to choose the day of week, then press OK. *Timer Setup Complete* appears.
7. To set additional timers, select another timer and repeat steps 3-6.
8. When finished, press EXIT. Then press OK to exit the Setup menu. A "T" appears in the information display, indicating a timer is set.

To cancel at any time, press EXIT. *Timer Setup Canceled* appears.

To overwrite a timer with a new event, choose the timer you want in step 2 above. *Overwrite Timer # (1, 2, etc)* appears. Press OK to confirm. *Timer # Deleted* appears.



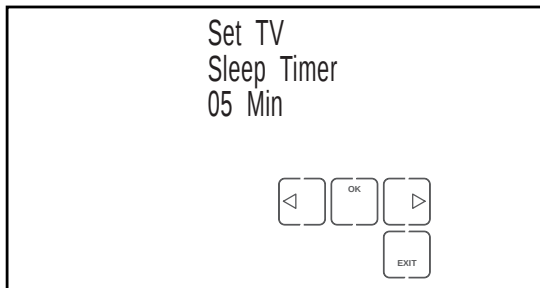
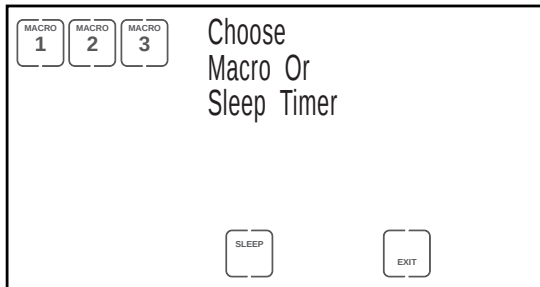
Deleting an Event Timer

Note: *If no macros have been programmed, this option doesn't appear in the Setup menu.*

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key on the touchscreen. *System Info Options?* appears

Tip: *You can also use the CH+/- keys to scroll forward or backward through the Setup menus..*

3. Press and release SETUP/SHIFT or the CH +/- keys until *Clear Event Timer Select One* appears, then press the event timer key on the touchscreen you want to delete. *Clear Timer # (1,2 etc) Pls Confirm* appears for the timer number you have selected.
 4. Press OK to confirm. *Timer# cleared* appears.
 5. To delete additional timers, select another timer and repeat step 4.
 6. When finished, press EXIT twice. Then press OK to exit the Setup menu.
- To cancel at any time, press EXIT. *No Timers Cleared* appears.



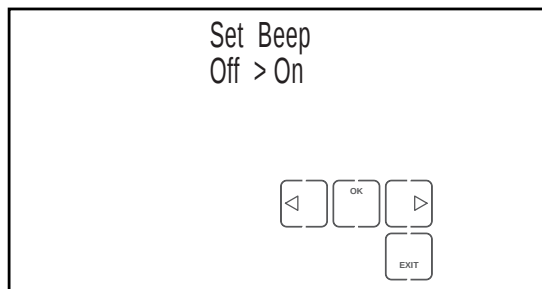
Setting the TV Sleep Timer

You can set the remote to turn your TV off at a specific time. Once programmed, you can continue using the remote control without affecting the Sleep Timer if you don't press the ON•OFF key while in the TV mode; this cancels the Sleep Timer. The default sleep timer setting is 5 minutes, and can be set up to 60 minutes.

1. Press and release the MACRO hard key located to the right of the touchscreen. *Choose Macro or Sleep Timer* appears.
2. Press the SLEEP key on the touchscreen. *Set TV Sleep Timer* appears.
3. Press the arrow keys on the touchscreen to set the desired time (from 5 to 60 minutes, in 5-minute increments).
4. Press OK to confirm. *Sleep Timer Setup Complete* appears and the setting is saved.

Note: To cancel at any time, press EXIT. *Sleep Timer Setup Canceled* appears.

To cancel the TV sleep timer once it has been set up, press and release the ON•OFF key while the remote is in the TV mode.



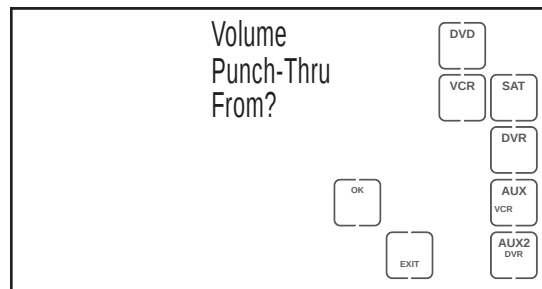
Setting the Beep Tone

Your remote beeps whenever a key is pressed to acknowledge the keypress. You can turn this feature on or off. The default setting is On.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Set Beep* appears, then use the arrow keys to turn the beep on or off. Press OK to save the setting. *Beep Setting Saved* appears.
4. When finished, press EXIT twice. Then press OK to exit the Setup menu.



Setting the Remote to Control the Volume of your Component

This feature allows your remote to control the volume of a component (or punch-thru), regardless of the mode. For example, you can adjust the volume while in DVD mode without having to first press the TV key. The default is set to punch-thru to TV.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

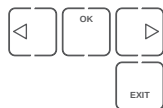


Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Volume Punch-Thru From?* appears, then press the component key on the touchscreen for the component the volume will come from. For example, if you want the volume keys to work in DVD mode, you would press DVD.
4. Press OK to confirm. *Volume Punch-Thru To?* appears.
5. Press the key on the touchscreen for the component you want to control the volume. For example, if you want your audio receiver to control the volume, you would press AUD. *Volume Settings Saved* appears.
6. To add additional component punch-thrus, select another component and repeat steps 4-5.
7. When finished, press EXIT twice. Then press OK again to exit the Setup menu.

To cancel at any time, press EXIT.

Transport
Punch-Thru
Off > On



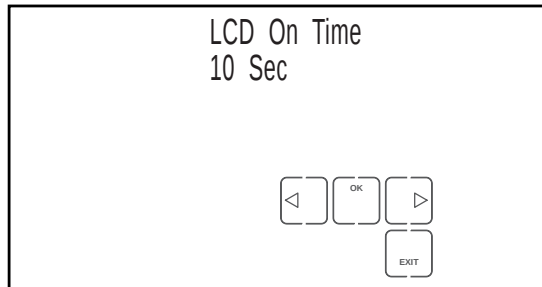
Setting the Remote to Control the Transport Keys of your Component

This feature allows your remote to control the transport keys (Reverse, Play, Forward, Stop, and Pause) of the last component you used (DVD player, DVR, or VCR), regardless of the mode. For example, you can fast forward a DVD while in TV mode without having to first press the DVD key. The default is set to on and to punch-thru to DVD.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Transport Punch-Thru* appears, then use the arrow keys to turn punch-thru on or off. Press OK to save the setting. *Transport Punch-thru Saved* appears.
4. When finished, press EXIT twice. Then press OK to exit the Setup menu.



Setting How Long the LCD Touchscreen is Displayed

You can change the amount of time the LCD displays before timing out, which is especially convenient while programming the remote. The default setting is 10 seconds.

Tip: *Setting this feature for a 10-second delay maximizes battery life. If you changed the LCD On Time to 90 seconds when setting it up, you may want to reset the time back to 10 seconds once you're finished with setup.*

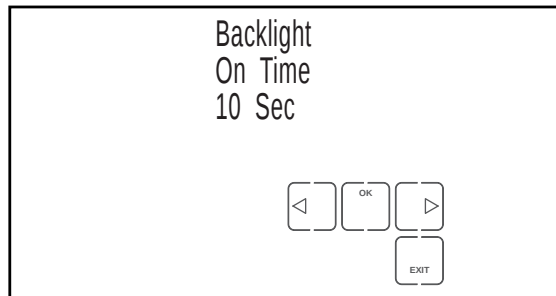
1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: *You can also use the CH+/- keys to scroll forward or backward through the Setup menus.*

3. Press and release SETUP/SHIFT until *LCD On Time* appears, then press the arrow keys to set the desired time (from 10 to 90 seconds, in 10-second increments).
4. Press OK to confirm. *LCD On Time Saved* appears and the setting is saved.
5. When finished, press EXIT twice. Then press OK to exit the Setup menu.

To cancel at any time, press EXIT.

Note: *The LCD On Time can't be shorter than the Backlight On Time (see page 35).*



Setting How Long the Backlight Stays On

You can change the amount of time the touchscreen lights up when you press the LIGHT key. The default setting is 10 seconds.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Backlight On Time* appears, then press the arrow keys to set the desired time (from 10 to 90 seconds, in 10-second increments).
4. Press OK to confirm. *Backlight On Time Saved* appears and the setting is saved.
5. When finished, press EXIT twice. Then press OK to exit the Setup menu.

Note: The *Backlight On Time* can't be greater than the LCD display time.

To cancel at any time, press EXIT.

Clear All
Remote
Functions

OK

EXIT

Clearing All Remote Functions

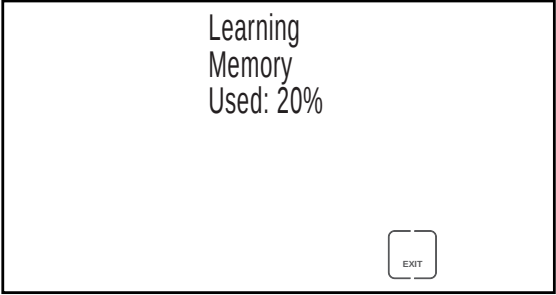
This feature completely resets the remote to its factory default settings, and is convenient if you want a fresh start instead of deleting your settings. It clears all customer-programmed codes, Learned commands, macros, and events, and resets all key labels.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press and release SETUP/SHIFT until *Clear All Remote Functions* appears, then press OK.
4. *Clear All Functions? Pls Confirm* appears. Press OK to confirm. All settings reset to the factory defaults.

To cancel at any time, press EXIT. *No Functions Cleared* appears.



Learning
Memory
Used: 20%



Reviewing How Much Learning Memory Has Been Used

This feature allows you to see how much memory your learned keys have used.

1. Press and hold the SETUP/SHIFT key until *Entering Setup Mode* appears.
2. Press and release SETUP/SHIFT until *Go to More Options* appears, then press the OK key. *System Info Options?* appears.

Tip: You can also use the CH+/- keys to scroll forward or backward through the Setup menus.

3. Press OK. *Learning Memory Used* appears, with the approximate percentage of how much memory has been used by the learned keys.
4. When finished, press EXIT three times. Then press OK to exit the Setup menu.



Troubleshooting

Most problems you encounter with your product can be corrected by consulting the following troubleshooting list.

The touchscreen does not show anything when you touch it or when you press the SETUP/SHIFT or LIGHT keys.

- Replace the batteries.
- Check to make sure the batteries are properly installed.

The remote does not operate your audio or video components.

- Make sure the remote is in the correct mode for the component you are attempting to control (TV, VCR, DVD, etc.)
- Make sure the remote is pointed at the IR sensor of the component you are trying to operate.
- Operate the remote control at a distance of no more than 20 feet from the component.
- Remove any obstacles between the remote and your components. If your component is in a glass cabinet, the doors might obstruct the remote control from operating the component. Open the doors.
- You might need to reset the remote to the factory defaults (see “Clearing All Remote Functions” on page 36). Keep in mind, this clears all customer-programmed codes, learned commands, macros, events, and resets all key labels.
- Try another code from the code list or the code search method. There is a possibility that a code may be partially compatible. You may want to try other codes for more functionality and test the remote again.

You have problems programming the remote to control a TV/VCR, TV/DVD, or TV/VCR/DVD combination unit.

- Try the VCR or DVD code for your brand. Some combination units, however, may require both a TV and a VCR or DVD code for full operation. To do this, program the TV code under the TV key and the VCR or DVD under the VCR or DVD key. Similarly, for a TV/VCR/DVD unit, program the TV, VCR, and DVD keys separately.

Macro, Sleep Timer, or Event Timer won't run.

- Check that the remote is pointed at the component(s) you have programmed it to control. They have to be in the remote's line-of-sight in order for these features to work. Also, you can't set up an event timer if no macros have been defined.

The LCD touchscreen times out too quickly.

- Adjust the LCD ON Time setting to give you more time before the display times out. See page 34.

I can't change the AUX keys to the component I want to control.

- Once the AUX keys are programmed, you need to press the SETUP/SHIFT button then press the desired AUX or AUX2 key repeatedly to scroll through your programmed components. The SETUP/SHIFT key times out after 5 seconds.

The light indicator is on but the LCD touchscreen is blank.

- The remote is attempting to synchronize the current time with the atomic clock radio signal generated from Colorado (usually between 3-6 AM). This is normal. If you want to abort this process, press the SETUP/SHIFT key.

Helpline

If you need additional assistance, please call the Helpline at **1-800-276-0509**.

Limited Warranty

Thomson Inc. warrants that, for 90 days from date of purchase, it will replace this product if found to be defective in materials or workmanship. Return it postage paid to the Product Exchange Center, 11721 Alameda Ave., Socorro, TX 79927 for prompt, no-charge replacement with a current equivalent. This replacement is Thomson Inc.'s sole obligation under this warranty. Thomson Inc. will not be responsible for any incidental or consequential damages or for any loss arising in connection with the use or inability to use this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty excludes defects or damage due to misuse, abuse, or neglect. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

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