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6-In-One Light and Learn Remote

Owner's Manual
Please read before using this equipment.

☐ *Contents*

☐ *Features*

Your Radio Shack 6-In-One Light and Learn Remote allows you to control your TV, VCR, cable/SAT/DSS converter, DVD player, CD player, and an auxiliary device with one easy-to-use remote control.

Its features include:

Home Theater Key — lets you access the function keys of various home theater devices

Smart Keys — store and recall additional remote control functions

Sleep Timer — lets you program your TV or cable/ satellite system to turn off automatically

Extensive Searchable Code Library — contains remote control codes for most available brands, including discontinued devices

Channel Scan — lets you "channel surf" all available channels

Favorite Channel Scan — lets you "surf" up to 10 of your favorite channels

Programmable Power Key — controls master on/off of home entertainment devices with a single key press

Programmable Macro Keys — allow instant tuning to favorite channels

Mode Reassignment — lets you add control of another TV, VCR, DVD player or other auxiliary device in place of an existing device.

Powerful Infrared Beam — lets you operate your home entertainment devices from a greater distance than with many of the original remote controls

Non-Volatile Memory — retains stored device codes and any programmed settings when batteries are low or must be replaced

☐ *A Quick Look at the Keys*

Your Radio Shack 6-In-One Remote controls the most-used functions on your TV, VCR, cable/SAT/DSS converter, DVD player, CD player, and auxiliary device.

After you set up the remote control, its command keys will work like the keys on your original remote controls. For example, depending on the device you select (TV, VCR, CBL/SAT, DVD, CD, or AUX) **POWER** operates just like the POWER ON/OFF key on the remote control for your original TV, VCR, cable/SAT/DSS, DVD player, CD player, or auxiliary device.

The following table lists all keys and how they function.

Key	Function
P	Use to program the remote control.
☀	Use to turn the backlight on or off. When on, any key press activates the backlight. It stays on for up to 5 seconds after the last key press.
TV, **VCR**, **CBL/SAT**, and **DVD**	Use to set up the remote control to replace the devices' original remote controls. In normal operation, use to remotely select a desired device to control.
POWER, **VOL +**, **VOL –**, **CH +**, **CH –**, **LAST**, **MUTE**, **ENTER**, Digit Keys, Transport Keys, **+100**, and **TV/VCR** (**A/B**)	Use the same as the corresponding keys on the original remote controls. **POWER** can also be programmed for ALL POWER on/off of selected devices (see "Programming the Power Key" on Page 12).
MENU, **GUIDE**, **INFO**, and **EXIT**	Use to view interactive menus for **TV**, **VCR**, **CBL/SAT**, and **DVD**.
MUSIC, **MOVIES**, **SPORTS**, and **NEWS**	Use to program instant tuning of up to three channels per category (see "Programming Macros" on Page 12).
1S, **2S**, **3S**, **4S**	Use to learn or add functions that are unique to your home entertainment system.
SCAN (**FAV**)	Use to scan all or only favorite channels (see "Using Channel Scan" on Page 16 and "Using Favorite Channel Scan" on Page 17).
SLEEP	In the **TV** and **CBL/SAT** devices, enables a device's Sleep Timer (See "Using the Sleep Timer" on Page 19).

Key	Function
THEATER	Use to access function keys without changing device remotes (See "Using Home Theater" on Page 20).

The following tables explain how selected keys function in different modes. For example, **CH+** acts as a Channel-Up key in TV, VCR, and CBL/SAT modes. However, in DVD mode, **CH+** acts as a Skip Forward key.

Key	TV	VCR	CBL/ SAT
GUIDE	Guide	Program	Guide
MENU	Menu	Menu	Menu
INFO	Display	Display	Information
CH+	Channel Up	Channel Up	Channel Up
CH–	Channel Down	Channel Down	Channel Down
LAST	Last Channel	Last Channel	Last Channel
TV/VCR	TV/VCR	TV/VCR	A/B
REW	Punch through to VCR	Rewind	Rewind VCR/ Page Down[*]
PLAY	Punch through to VCR	Play	Play VCR
FF	Punch through to VCR	Fast Forward	Fast Forward VCR/ Page Up[*]
REC	Punch through to VCR	Record	Record VCR
STOP	Punch through to VCR	Stop	Stop VCR
PAUSE	Punch through to VCR	Pause	Pause VCR

Key	DVD	AUX	CD
GUIDE	Setup Menu	Guide	Guide
MENU	DVD Menu	Program	Program
INFO	Display	Display	Display
CH+	Skip Forward	Preset +	Preset +
CH–	Skip Reverse	Preset –	Preset –
LAST	Return	Random	Random
TV/VCR	TV/DVD	Input	A/B
REW	Rewind	Rewind	Rewind
PLAY	Play	Play	Play
FF	Fast Forward	Fast Forward	Fast Forward
REC	Record	Record	Record
STOP	Stop	Stop	Stop
PAUSE	Pause	Pause	Pause

* On some cable/satellite remote controls, **REW** and **FF** do not punch through to VCR transport control. Instead, these keys act as Page Up and Page Down, respectively.

☐ *Preparation*

After installing the batteries (not included), you can immediately use the remote (with its factory-programmed settings) to control an RCA TV, VCR, and DIRECTV system (or SAT/DSS receiver), as well as a Pioneer DVD player, CD player, and auxiliary device. To control other brands, you must perform some simple programming to overwrite the default parameters.

For best results, read and perform all remaining instructions. Also, keep these instructions for future reference.

INSTALLING BATTERIES

Your remote requires four AAA batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

Cautions:

- Use only fresh batteries of the required size and recommended type.

- Do not use rechargeable batteries.

- Do not mix old and new batteries or different types of batteries (standard or alkaline).

- Always remove old or weak batteries. Batteries can leak chemicals that can destroy electronic parts.

Note: Do not press any of the remote control's keys while installing batteries.

Follow these steps to install batteries.

1. Press the battery compartment cover's tab and lift off the cover.

2. Place the batteries in the compartment as indicated by the polarity symbols (+ and –) marked inside.

3. Replace the cover.

When batteries become low, the remote control stops operating to protect stored settings. Replacing the batteries with new ones restores full functionality and does not require you to reprogram your remote control.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Caution: If you do not plan to use the remote for a month or longer, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Note: Do not place objects on top of the remote control after you have installed the batteries. This can depress keys for an extended period of time and reduce the battery life.

DEVICE TYPES

You can use the remote control's device keys to control the following types of devices:

TV — TV

VCR — VCR or PVR (Personal Video Recorder)

CBL/SAT — Cable converter or SAT/DSS receiver

DVD — DVD or LD Player

AUX — Amplifier, tuner or other audio device

CD – CD Player

SETTING UP YOUR REMOTE

To control devices other than the default brands (for example, an RCA TV, VCR, and cable converter or SAT/DSS receiver, a Pioneer DVD player, CD player, and auxiliary device), perform the following steps. If you use the default brand devices, skip this section.

1. Refer to "Manufacturers' Codes" on Page 25 and write down the code(s) for the brand of each device you want to program on the supplied label.

   Note: Some manufacturers may have several codes listed. Try each until you find the right one. If you cannot find the correct code, see "Using Manual Code Search" on Page 23.

2. Turn on all your home entertainment devices.

3. On the remote control, press the desired device key (**TV**, **VCR**, **CBL/SAT**, **DVD**, **CD** or **AUX**).

   Note: For TV/VCR combinations, press **VCR** and use the VCR code listed for your model under "Television-VCR Combo Codes" on Page 45. If your TV/VCR combination also lists a TV code, you must program the TV separately by repeating Steps 3–5 to add volume control. In Step 3, press **TV**, then in step 4 enter the TV code.

4. Hold down **P** until the remote's red light blinks twice, then enter the first 4-digit manufacturer's code for the desired device. When the red light blinks twice, the remote control has accepted the code.

   For example, to set up the remote control of a Panasonic TV (manufacturer's code 0051), press **TV**, hold down **P** until the red light blinks twice, then press **0 0 5 1**.

   Note: If you entered the code incorrectly, the red light emits one long blink.

5. Point the remote control at the desired device and press **POWER**. The device should turn off.

   If the remote control does not operate your device, try the other codes listed in "Manufacturers' Codes" on Page 25 for your brand of device. Otherwise, use the search method to find a working code (see "Using Manual Code Search" on Page 23).

6. Repeat Steps 2–5 to program other devices.

   Note: If the remote control does not operate all device functions, try using another code in the list that may be more compatible.

PROGRAMMING FAVORITE CHANNEL SCAN

Once you have programmed channels into a favorite channel table, you can scan up to ten favorite channels for a desired device.

Note: Once you have programmed **SCAN/FAV** for Favorite Channel Scan, you cannot use it for Channel Scan unless you reset it (see "Resetting Scan").

1. Select **TV** or **CBL/SAT** for the favorite channel scan.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 6**. The red light blinks twice.

4. Enter the two-, three- or four-digit number for your favorite channel.

5. *If you entered a two- or three-digit channel number*, you must do one of the following: if your original remote requires you to press Enter or Select to send a command, then do so after entering the digits of your favorite channel. If your original remote does not require you to press Enter or Select to send a command, then after entering your two- or three-digit channel number, press **P**.

   If you entered a four-digit channel number, do not press **P**.

6. Repeat Steps 4–5 up to nine more times to store another favorite channel for the same device, or exit the program by pressing **P** until the red light blinks twice.

7. To exit the program, press **P** until the red light blinks twice.

Once you have programmed all 10 favorite channels, the remote automatically exits favorite channel setup.

Resetting Scan

Once you have programmed **SCAN/FAV** for Favorite Channel Scan, you cannot use it for Channel Scan unless you reset it.

To reset **SCAN/FAV**, follow these steps.

1. Select either **TV** or **CBL/SAT**.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 6**. The red light blinks twice. You can now use the remote for Channel Scan (see "Using Channel Scan" on Page 16).

4. Hold down **P** until the red light blinks twice.

PROGRAMMING MACROS

Your remote has four macro keys (**MUSIC**, **MOVIES**, **SPORTS**, and **NEWS**) that store up to three channels per macro key for instant tuning of TV or cable/satellite channels. For example, if your favorite sports channel on your cable service is 061, you can store it as an instant tune-in macro.

Follow these steps to program macros.

1. Hold down **P** until the red light blinks twice.

2. Press **9 9 5**. The red light blinks twice.

3. Press the desired macro key (**MUSIC**, **MOVIES**, **SPORTS**, or **NEWS**).

4. Press **CBL/SAT** or **TV** to select a device.

5. Press the numbers for the desired channel (**0 6 1** for the sports channel in the previous example).

6. Hold down **P** until the red light blinks twice.

   Note: If your original remote control requires you to press Enter or Select to send a command, press Enter or Select after entering your channel number. Then, hold down **P** until the red light blinks twice.

If you want to add two more channels to the macro keys, repeat Steps 1–6 twice, each time substituting another channel number in step 5.

Note: You can only program three channels for each macro key. Programming more than three channels will overwrite one or more of your original channel settings.

PROGRAMMING THE POWER KEY

Your remote can store a power on/off sequence to control the power of up to six devices with a single key press. Once the desired sequence is stored, **POWER** acts as a master power key when held down for at least 2 seconds.

Follow these steps to program the power key.

1. Turn off all devices.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 5**. The red light blinks twice.

4. Press **POWER**.

5. Press the device keys **TV**, **VCR**, **CBL/SAT**, **DVD**, **CD** or **AUX**) in the desired order.

6. Hold down **P** until the red light blinks twice.

Resetting the Power Key

Follow these steps to reset the Power key to the default settings (delete the master power setup):

1. Hold down **P** until red light blinks twice.

2. Press **9 9 5**. The red light blinks twice.

3. Press **POWER**.

4. Hold down **P** until red light blinks twice.

REASSIGNING DEVICES

Although your remote is designed to control a TV, a VCR, a cable converter (or SAT receiver), a DVD player, a CD player, and an auxiliary device, you can reassign an unused device key (for example, **AUX**) to control another device, such as a second VCR.

1. Hold down **P** until the red light blinks twice.

2. Press **9 9 2**. The red light blinks twice.

3. Press the device key for the device you are adding (for example, **VCR**) then press the device key for the unused key where the additional device will be assigned (for example, **AUX**). The red light blinks twice.

4. Set up the reassigned key to control your device (see "Setting Up Your Remote" on Page 9).

Note: Other reassignments are possible, including adding a second TV or second DVD player to an un-used device key. Simply repeat Step 3 with your de-sired choices.

Resetting Reassigned Device Keys

If you have reassigned a key (for example, you reas-signed the DVD key to operate a second VCR), and want to return to the default setting (for the example, DVD mode), follow these steps.

1. Hold down **P** until red light blinks twice.

2. Enter **9 9 2**. The red light blinks twice.

3. Press the desired mode key (the key you want reassigned to factory default settings) twice. The red light blinks twice.

You can now set up codes for the original device.

PROGRAMMING LEARNING

You can program the four Smart keys (**1S**, **2S**, **3S**, and **4S**) on your remote to learn a function that is unique to your home entertainment devices (for example, track-ing up or down for a VCR).

Note: Have your original remote controls handy be-fore beginning learning programming.

Important: If no key is pressed within 10 seconds, the remote control exits the programming.

Learning Functions

1. Hold down **P** until the red light blinks twice.

2. Press **9 7 5**. The red light blinks twice.

3. Press the device key that corresponds with the desired device's remote (**TV**, **VCR**, **CBL/SAT**, **DVD**, or **AUX**). The red light blinks rapidly.

4. Press the desired learning key (**1S**, **2S**, **3S**, or **4S**).

5. Place the device's remote control head-to-head (about 2 inches apart) with the 6-In-One Remote.

6. On the device's remote control, hold down the key to be learned until the red light on the 6-In-One Remote blinks twice.

   If the red light does not blink twice, repeat Steps 1– 5.

To learn functions on another key, repeat Steps 3–6.

To lock in learned functions on the 6-in-One Remote, hold down **P** until the red light blinks twice.

To test a learned function, press the learned key on the 6-In-One Remote and use the function as usual.

Deleting a Learned Function

1. Hold down **P** until the red light blinks twice.

2. Press **9 7 6**. The red light blinks twice.

3. Press the device key that corresponds with the desired device's remote (**TV**, **VCR**, **CBL/SAT**, **DVD**, or **AUX**).

4. Press the Smart key (**1S**, **2S**, **3S**, or **4S**) for the learned function you want to delete twice. The LED blinks twice.

5. To clear functions stored on other Smart keys, repeat Steps 1–4.

☐ *Operation*

Note: The command keys on the 6-In-One Remote work the same as the keys on your original remote controls. However, the labeling may be different.

USING THE REMOTE

Once you have completed all the programming for the remote (see "Preparation" on Page 7), you are ready to use your 6-In-One Remote.

1. Point the remote at the desired device and press the device key (**TV**, **VCR**, **CBL/SAT**, **DVD**, **CD**, or **AUX**). Then press **POWER** to turn on the device.

2. Press the desired command keys.

3. Repeat Steps 1 and 2 for all other devices you want to operate.

4. *To turn off the last device you selected*, press **POWER**.

   To turn off another device, press the device key, then press **POWER**. Repeat to turn off all devices.

Note: You can program **POWER** as a master power key to turn all devices on and off in a sequence. See "Programming the Power Key" on Page 12.

USING THE LIGHT

Your remote has a backlight so you can see the keys in the dark. To turn on the light, press ✳ at the top right of the remote.

When you press a key, the remote lights for a few seconds. To turn off the light, press ✳ again.

USING CHANNEL SCAN

Note: If you programmed **SCAN/FAV** for Favorite Channel Scan, you cannot use it for Channel Scan until you reset **SCAN/FAV** (see "Resetting Scan" on Page 11).

If you want to view a sample of every channel on your cable or SAT/DSS service, press **CBL/SAT**, then press **SCAN/FAV**. Starting with the current channel, the remote control tunes to each channel in ascending order every three seconds. Press any key to stop the scan.

Note: For on-air broadcast scans, press **TV**, then press **SCAN/FAV** to start the scan.

USING FAVORITE CHANNEL SCAN

To scan favorite channels, you must first program the favorite channel table (see "Programming Favorite Channel Scan" on Page 10).

Press the desired device key (**TV** or **CBL/SAT**), then press **SCAN/FAV**. The remote tunes to each favorite channel in ascending order every three seconds. Press any key to stop the scan.

USING MACROS

Press the desired macro key once for the first channel you programmed (see "Programming Macros" on Page 12), twice for the second channel, and so on.

USING THE POWER KEY

To turn on all devices, hold down **POWER** for at least 2 seconds. Each device turns on in the sequence you programmed (see "Programming the Power Key" on Page 12).

To turn off all devices, press **TV**, then hold down **POW-ER** for at least 2 seconds. You should see each device turn off in sequence.

Note: If you do not press **TV** first before holding down **POWER**, the sequence will skip the currently selected device.

CHANGING VOLUME LOCK

Your remote's Volume Lock is preset so the volume and mute keys only control the TV volume, no matter what device is selected. If you want the remote to control the TV's volume only, skip this section and leave the original settings intact.

However, if you want to control another device's volume functions (for example, CBL/SAT, VCR, DVD,

CD, or AUX) upon its selection, then perform the steps listed in the appropriate section below.

Volume Unlock on a Cable Convertor or SAT/DSS Receiver

1. Press **CBL/SAT**.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 3**. The red light blinks twice.

4. Press **VOL–**. The red light blinks four times.

To control the volume through your cable converter (or SAT/DSS receiver), press **CBL/SAT** before using the volume controls.

Volume Unlock on a VCR

1. Press **VCR**.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 3**. The red light blinks twice.

4. Press **VOL–**. The red light blinks four times.

To control the volume through your VCR, press **VCR** before using the volume controls.

Volume Unlock on a DVD

1. Press **DVD**.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 3**. The red light blinks twice.

4. Press **VOL–**. The red light blinks four times.

To control the volume through your DVD player, press **DVD** before using the volume controls.

Volume Unlock on a CD Player

1. Press **CD**.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 3**. The red light blinks twice.

4. Press **VOL–**. The red light blinks four times.

To control the volume through your auxiliary device, press **CD** before using the volume controls.

Volume Unlock on an Auxiliary Device

1. Press **AUX**.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 3**. The red light blinks twice.

4. Press **VOL–**. The red light blinks four times.

To control the volume through your auxiliary device, press **AUX** before using the volume controls.

Resetting Volume Lock to the Original Settings

1. Hold down **P** until the red light blinks twice.

2. Press **9 9 3**. The red light blinks twice.

3. Press **TV**. The red light blinks twice.

USING THE SLEEP TIMER

On a TV or CBL/SAT device, the Sleep Timer lets you program the chosen device to turn off automatically. You can set the Sleep Timer in 15-minute increments, for up to 60 minutes.

Setting the Sleep Timer

1. Select **TV** or **CBL/SAT**.

2. Press **SLEEP** once to activate the Sleep Timer for 15 minutes. The red light blinks once, then continues to blink once about every 24 seconds, to indicate the Sleep Timer is activated.

Note: If your device has a built-in sleep function, pressing **SLEEP** activates the device's sleep timer.

3. Press **SLEEP** again within 10 seconds to add another 15 minutes. Repeat as desired up to a maximum of 60 minutes.

4. Place the 6-In-One Remote directly in front of the device you chose to enter sleep mode.

To deactivate the Sleep Timer, press any key. The red light stops blinking.

Locking/Unlocking the Sleep Timer

The 6-in-One Remote's built-in sleep function can be enabled even if another device has a sleep timer. Simply lock the Sleep Timer to ensure it functions.

1. Select **TV** or **CBL/SAT**.

2. Hold down **P** until the red light blinks twice.

3. Press **9 7 0**. The red light blinks twice.

4. The red light blinks twice when the Sleep Timer is locked. (If you are unlocking the Sleep Timer, the red light blinks four times.)

USING HOME THEATER

The 6-In-One Remote's Home Theater feature allows you to access the most-used functions of all your different components without changing device modes. For example, you can play your DVD player, control the volume on your TV, change channels on your cable box, and control the menu on the cable all in the same device mode — Home Theater mode.

Important: The features you can combine are organized into four Function Groups. Each function group can only be assigned to a device in the device group of the corresponding number (Function Group 1 can only be assigned to a device in Device Group 1, Function Group 2 can only be assigned to a device in Device Group 2, and so on).

Note: Once a Function Group is assigned to a device, the device can use all keys in the designated Function Group.

Function Groups

Function Group 1 — Transport Keys (Play, Stop, Fast Forward, Rewind, Pause)

Function Group 2 — Volume Keys (Volume Up, Volume Down, and Mute)

Function Group 3 — Channel Keys (Channel Up, Channel Down, Digits 0–9, Enter, Last, Sleep, Info, +100, and TV/VCR)

Function Group 4 — Menu Keys (Menu, Guide, Up, Down, Left, Right, Select, and Exit)

Device Groups

Device Group 1 — VCR, DVD, CD, and AUX

Device Group 2 — TV, VCR, CBL/SAT, DVD, CD, and AUX

Device Group 3 — TV, VCR, CBL/SAT, DVD, CD, and AUX

Device Group 4 — TV, VCR, CBL/SAT, and DVD

Note: The Device Groups are preset as follows:

- Device Group 1 – VCR

- Device Group 2 – TV

- Device Group 3 –CBL/SAT

- Device Group 4 –CBL/SAT

Enabling Home Theater

Note: To assign a Function Group to a Device Group, you must press the first key in the Function Group. For example, to assign Function Group 1, press **PLAY** and so on.

1. On the remote, press **THEATER**.

2. Hold down **P** until the red light blinks twice.

3. Enter **9 7 9**. The red light blinks twice.

4. Press the desired device key from Device Group 1 (**VCR**, **DVD**, **CD** or **AUX**). Press **PLAY** to assign Function Group 1 (the transport keys). The red light blinks twice.

5. Press the desired device key from Device Group 2 (**TV**, **VCR**, **CBL/SAT**, **DVD**, **CD** or **AUX**). Press **VOL+** to assign Function Group 2 (the volume keys). The red light blinks twice.

6. Press the desired device key from Device Group 3 (**TV**, **VCR**, **CBL/SAT**, **DVD**, **CD** or **AUX**). Press **CH+** to assign Function Group 3 (the channel keys). The red light blinks twice.

7. Press the desired device key from Device Group 4 (**TV**, **VCR**, **CBL/SAT**, or **DVD**). Press **MENU** to assign Function Group 4 (the menu keys). The red light blinks twice.

8. To lock in the settings, press **P** until the red light blinks once.

Using Home Theater

Note: You must program the Power key (see "Programming the Power Key" on Page 12) to turn on all the devices you programmed into **THEATER** (see "Enabling Home Theater"). The Power key does not turn on any device you did not program into it.

1. Press **THEATER**.

2. Use the function keys as usual. The keys operate only the devices you assigned them to. For example, if you assigned Function Group 1 to your VCR, any time you press **PLAY** (or any other key from Function Group 1) the VCR plays. **PLAY** no longer operates your DVD or other devices.

3. To exit Home Theater mode, press the device key of the desired mode.

USING MANUAL CODE SEARCH

If your home entertainment device does not respond to remote control commands after trying all of the codes listed for your brand, or if your brand is not listed, try searching for your code.

Follow these steps to search for codes manually.

1. Turn on the desired device.

2. On the 6-In-One Remote, press the appropriate device key once.

3. Hold down **P** until the red light blinks twice.

4. Press **9 9 1**. The red light blinks twice.

5. Aim the 6-In-One Remote at the desired device and slowly alternate between pressing **POWER** and the appropriate device key. Stop when the device turns off — a working code has been found.

   Note: In the search mode, the remote sends IR codes from its extensive library to the selected device, starting with the most popular codes. Because of the library's size, this procedure may take some time. When the red light blinks three times, the search of every code is complete.

6. Press **P** once to lock in the code.

Note: If the device turns off during the search, but does not operate after you lock in the code, begin the search again, pausing longer between key presses.

Checking Your Code

If you set up the remote control using the manual code search procedure, you can use the following instructions to find out what code is operating your equipment:

1. On the remote control, press the desired device key once.

2. Hold down **P** until the red light blinks twice.

3. Press **9 9 0**. The red light blinks twice.

4. To view the code for the first digit, press **1**. Count the number of blinks (for example, if there are three blinks, the first digit is 3) and write down the number.

   Note: The red light will not blink if the code digit is a "0".

5. Repeat Step 4 three more times for each successive digit by pressing and releasing **2**, **3**, and **4**.

❐ *Troubleshooting*

If the remote control stops working after you have successfully tested the control for each device, or if you are unable to get the remote control to work at all, do the following:

• Be sure you press the device key for the device you want to control before you press any other key.

• Confirm that your IR devices are working properly by using the original remote control or the manual controls.

• Replace the batteries.

If you have any other problems, call customer service at 888-631-9859.

CARE

Keep the remote dry; if it gets wet, wipe it dry immediately. Use and store the remote only in normal temperature environments. Handle the remote carefully; do not drop it. Keep the remote away from dust and dirt,

and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the remote's internal components can cause a malfunction and might invalidate its warranty. If your remote is not performing as it should, take it to your local RadioShack store for assistance.

☐ *Manufacturers' Codes*

The following lists tell you which 4-digit codes to enter to set up the 6-In-One Remote Remote.

Notes:

- The remote control might not have every command featured on your original remote controls.

- Use the supplied label to record the manufacturers' codes for your remote-controlled devices.

- A key on the remote control that has the same name as a key on your original remote control may have a slightly different function.

Amplifier Codes

Brand	Codes
Aiwa	0406
Carver	0269
Curtis Mathes	0300
Denon	0160
Harman/Kardon	0892
JVC	0331
Linn	0269
Magnavox	0269
Marantz	0269
Optimus	0300, 0395, 0823
Panasonic	0308

Brand	Codes
Philips	0269, 0892
Pioneer	0013, 0300, 0823
Polk Audio	0269, 0892
RCA	0300
Realistic	0395, 0231
Sony	0220, 0689
Technics	0308
Victor	0331
Wards	0013
Yamaha	0354

Cable Codes

Brand	Codes
ABC	0003, 0008, 0014, 0017, 0007, 0011, 0001, 0013
Allegro	0153, 0315
Americast	0899
Antronix	0022, 0207
Archer	0153, 0022, 0207, 0797
Belcor	0056
Bell & Howell	0014
Bell South	0899
Cable Star	0056
Cabletenna	0022
Cableview	0022
Century	0153
Citizen	0153, 0315
Colour Voice	0025
Comtronics	0040
Contec	0019
Eastern	0002
Emerson	0797
Everquest	0015, 0040

Brand	Codes
Focus	0400
GC Electronics	0056, 0207
Garrard	0153
Gemini	0015, 0797
General Instrument	0476, 0276, 0011, 0810
GoldStar	0144, 0040
Goodmind	0797
Hamlin	0020, 0259, 0009, 0034
Hitachi	0011
Hytex	0007
Jasco	0015, 0153, 0315
Jerrold	0003, 0012, 0476, 0276, 0014, 0015, 0011, 0810
Memorex	0000
Movie Time	0063
NSC	0063
Oak	0019, 0007
Optimus	0021
Panasonic	0000, 0107, 0021
Paragon	0000
Philips	0153, 0025, 0305, 0317
Pioneer	0144, 0533, 0877
Popular Mechanics	0400
Pulsar	0000
Quasar	0000
RCA	0021
RadioShack	0015, 0303, 0315, 0797, 0883
Realistic	0207
Recoton	0400
Regal	0020, 0259
Regency	0002
Rembrandt	0011
Runco	0000
SL Marx	0040

Brand	Codes
Samsung	0144, 0040
Scientific Atlanta	0008, 0477, 0017, 0877
Signal	0015, 0040
Signature	0011
Sprucer	0021
Starcom	0003, 0015
Stargate	0015, 0040, 0797
Starquest	0015
Sylvania	0001
TV86	0063
Tandy	0258
Teleview	0040
Texscan	0001
Tocom	0012, 0013
Toshiba	0000
Tusa	0015
Unika	0153, 0022, 0207
United Artists	0007
Universal	0153, 0022, 0056, 0191, 0207
Viewstar	0063, 0258
Zenith	0000, 0525, 0899
Zentek	0400

CD Player Codes

Brand	Codes
ADC	0018
Adcom	0155, 0234
Aiwa	0157, 0012, 0124
Akai	0156
Audio Alchemy	0194
Audio-Technica	0170
BSR	0194, 0245
Burmester	0420

Brand	Codes
California Audio Labs	0029, 0303
Carrera	0194
Carver	0157, 0179, 0437
Crown	0122
DAK	0245
DBX	0254
DKK	0000
Denon	0003, 0873
Emerson	0305, 0155, 0164, 0469
Fisher	0179, 0088, 0174, 0342
GE	0009
Garrard	0420, 0393, 0245, 0280, 0425
Genexxa	0032, 0305, 0164
GoldStar	0417
Harman/Kardon	0157, 0173, 0426
Hitachi	0032, 0155
JVC	0072, 0655, 0658
Kenwood	0028, 0037, 0190, 0626, 0681, 0826
Kodak	0287
Krell	0157
Kyocera	0018
LXI	0305
Linn	0157
Luxman	0093
MCS	0029, 0043
MTC	0420
Magnavox	0157, 0305
Marantz	0029, 0157, 0180
McIntosh	0287
Mission	0157
NEC	0043, 0234
NSM	0157
Nakamichi	0147

Brand	Codes
Nikko	0164, 0170, 0174
Onkyo	0101, 0868
Optimus	0000, 0032, 0179, 0305, 0037, 0420, 0145, 0468, 0087, 0175, 0194, 0196, 0280, 0342, 0426, 0437, 0536, 0671, 0775, 0850, 1063, 1075
Panasonic	0029, 0303, 0367, 0752
Parasound	0420, 0194
Philips	0157, 0287, 0626
Pioneer	0032, 0305, 0468, 0244, 1063
Polk Audio	0157
Proton	0157
QED	0157
Quasa	0029
RCA	0179, 0305, 0053, 0009, 0155, 0764
RadioShack	1083
Realistic	0179, 0420, 0155, 0164, 0175, 0180, 0452, 0453
Rotel	0157, 0420
SAE	0157
STS	0018
Sansui	0157, 0305, 0202
Sanyo	0179, 0087
Scott	0305, 0155, 0164
Sears	0305
Sharp	0037, 0180, 0861
Sherwood	0180, 0196, 0426, 1067
Shure	0043
Sony	0000, 0185, 0490
Soundesign	0145, 0425
Staron	0398
Tascam	0420
Teac	0420, 0393, 0174, 0180
Technics	0029, 0207, 0303

Brand	Codes
Vector Research	0194, 0417
Victor	0072
Wards	0157, 0053, 0559
Yamaha	0036, 0170, 0187, 0888
Yorx	0461

Home Automation Codes

Brand	Codes
GE	0240
One For All	0167
RadioShack	0240
Security System	0167
Universal X10	0167
X10	0167

Laser Disc Codes

Brand	Codes
Denon	0059
Mitsubishi	0059
NAD	0059
Optimus	0059
Pioneer	0059

Miscellaneous Audio Codes

Brand	Codes
Aiwa	0010, 0159
Jerrold	0459, 0520
Scientific Atlanta	0460
Sony	0010, 0159
Starcom	0459

Video Codes

Brand	Codes
Archer	0160
GC Electronics	0160
Jebsee	0160
Magnavox	0818
Philips	0818
Pioneer	1010
RadioShack	0160
Sharp	1010
Sony	0850

Receiver Codes

Brand	Codes
ADC	0531
Adcom	0616
Admiral	0182
Aiwa	0158, 0189, 0121, 0405, 1089, 1405
Akai	0076, 0115, 0224
Capetronic	0531, 0690
Carver	0189, 0008, 0042, 0360, 1089, 1189
Casio	0195
Clarinette	0195
Curtis Mathes	0080
Denon	0004, 0771, 1104, 1160
Emerson	0424
Fisher	0042, 0219, 0360
Garrard	0463, 0286, 0424, 0440, 0744
Hanwah	0741
Harman/Kardon	0110, 0189, 0891
Inkel	0062
JBL	0110
JVC	0074

Brand	Codes
Jensen	0754
Kenwood	0027, 0186, 0042, 0077, 0313, 0314, 0569, 1027, 1052, 1313, 1569
Koss	0424, 0744
LXI	0744
Linn	0189
Lloyd's	0195
MCS	0039, 0346
Magnavox	0531, 0189, 0195, 0128, 0364, 0391, 1089, 1189
Marantz	0039, 0189, 0128, 1089, 1189
Memorex	0335
Modulaire	0195
NAD	0320
NEC	0235
NTDE Geniesom	0744
Nakamichi	0097, 0347
Onkyo	0135, 0100, 0380
Optimus	0531, 0670, 0186, 0080, 0042, 0177, 0219, 0229, 0286, 0440, 0622, 0690, 0738, 0744, 0754, 0797, 0801, 0849, 1023, 1074
Orient Power	0744
Panasonic	0039, 0309, 0518, 1518
Penney	0195
Philips	0189, 0391, 1089, 1189
Pioneer	0531, 0014, 0150, 0630, 0080, 1023
Polk Audio	0189
Proscan	1254
Quasar	0039
RCA	0531, 0054, 0346, 0360, 0530, 1023, 1154, 1254
RadioShack	0744
Realistic	0195, 0001, 0025, 0163, 0178, 0182, 0534
Sansui	0189, 0193, 0346, 1089

Brand	Codes
Sanyo	0219, 0801
Schneider	0364
Scott	0163, 0322, 0418
Sharp	0186
Sherwood	0491, 0062, 0502
Sony	0158, 0168, 0415, 0474, 1042, 1058, 1158, 1258
Soundesign	0670
Sunfire	0313, 0314, 1052, 1313
Symphonic	0182
Teac	0463, 0163
Technics	0039, 0309, 0208, 0518, 1308, 1309, 1518
Techwood	0364
Thorens	1189
Victor	0074
Wards	0158, 0014, 0189, 0080, 0054
Yamaha	0176, 0186, 0081, 1176
Yorx	0195
Zenith	0622, 0744, 0857

Satellite Codes

Brand	Codes
AlphaStar	0772
Chaparral	0216
Echostar	0775, 0218, 0269, 1005
Expressvu	0775
General Instrument	0627, 0361, 0869
HTS	0775
Hitachi	0819
Hughes Network Sys-tems	0749
JVC	0775
Jerrold	0627, 0361

Brand	Codes
Legend	0269
Magnavox	0724, 0722
Memorex	0724, 0269
Next Level	0869
Panasonic	0701
Philips	0724, 0722, 1076
Primestar	0627, 0361
RCA	0566, 0143, 0392, 0855
RadioShack	0869
Realistic	0052, 0051
Sony	0639
Star Choice	0869
Toshiba	0749, 0790
Uniden	0724, 0722, 0052
Zenith	0856

Television Codes

Brand	Codes
A-Mark	0003
AOC	0030, 0019, 0003, 0185
Abex	0032
Admiral	0093, 0463
Adventura	0046
Aiko	0092
Akai	0030
Alaron	0179
Ambassador	0177
America Action	0180
Ampro	0751
Anam	0180
Anam National	0055
Archer	0003
Astro Text	0596

Brand	Codes
Audiovox	0451, 0180, 0003, 0092, 0623
Baysonic	0180
Belcor	0019
Bell & Howell	0154, 0016
Bradford	0180
Brockwood	0019
Broksonic	0236, 0463, 0003
CXC	0180
Candle	0030, 0056, 0046
Carnivale	0030
Carver	0054
Celebrity	0000
Cineral	0451, 0092
Citizen	0060, 0030, 0056, 0039, 0046, 0092, 0280
Clairtone	0185
Concerto	0056
Contec	0180, 0185
Craig	0180
Crosley	0054
Crown	0180, 0039
Curtis Mathes	0047, 0054, 0154, 0051, 0451, 0093, 0060, 0030, 0145, 0056, 0016, 0039, 0166, 0466, 0747, 1147, 1347
Daewoo	0451, 0019, 0039, 0092, 0623, 0624
Daytron	0019
Denon	0145
Dumont	0017, 0019
Dwin	0774
Electroband	0000, 0185
Electrohome	0409
Emerson	0154, 0236, 0463, 0180, 0282, 0178, 0019, 0179, 0039, 0177, 0185, 0280, 0623, 0624

Brand	Codes
Envision	0030
Fisher	0154, 0159
Fujitsu	0179, 0683
Funai	0180, 0179, 0171
Futuretech	0180
GE	0047, 0051, 0451, 0093, 0282, 0178, 0021, 0055, 0135, 0747, 1147, 1347
Gibralter	0017, 0030, 0019
GoldStar	0030, 0178, 0019, 0056, 0032, 0409
Gradient	0053, 0056
Grunpy	0180, 0179
Hallmark	0178
Harley Davidson	0179
Harman/Kardon	0054
Harvard	0180
Hitachi	0145, 0056, 0016, 0032, 0151, 0409
Infinity	0054
Inteq	0017
JBL	0054
JCB	0000
JVC	0053
Janeil	0046
KEC	0180
KTV	0180, 0030, 0039, 0185, 0280
Kenwood	0030, 0019
Kloss	0046
LG	0056
LXI	0047, 0054, 0154, 0156, 0178, 0747
Logik	0016
Luxman	0056
MEI	0185

Brand	Codes
MGA	0150, 0030, 0178, 0019
MTC	0060, 0030, 0019, 0056, 0185
Magnavox	0054, 0030, 0179, 0020, 0096, 0187, 1254
Majestic	0016
Marantz	0054, 0030
Matsushita	0250
Megatron	0178, 0145, 0003
Memorex	0154, 0250, 0463, 0150, 0178, 0179, 0056, 0016
Midland	0047, 0017, 0051, 0039, 0032, 0135, 0747
Minutz	0021
Mitsubishi	0093, 0150, 0178, 0019
Motorola	0093, 0055
Multitech	0180
NAD	0156, 0178, 0166
NEC	0030, 0019, 0056
NTC	0092
Nikko	0030, 0178, 0092
Noshi	0018
Onwa	0180
Optimus	0154, 0250, 0166
Optonica	0093, 0165
Orion	0236, 0463, 0179
Panasonic	0051, 0250, 0055
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0018, 0056, 0039, 0003, 0032, 0135, 0747, 1347
Philco	0054, 0463, 0030, 0145, 0019, 0020, 0096
Philips	0054
Pilot	0030, 0019, 0039
Pioneer	0166, 0679
Portland	0019, 0039, 0092

Brand	Codes
Prism	0051
Proscan	0047, 0747
Proton	0178, 0003, 0466
Pulsar	0017, 0019
Quasar	0051, 0250, 0165, 0055
RCA	0047, 0051, 0093, 0019, 0018, 0090, 0135, 0747, 1047, 1147, 1247, 1347, 1447
RadioShack	0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039, 0032, 0409, 0747
Realistic	0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039, 0032
Rhapsody	0185
Runco	0017, 0030, 0603
SSS	0180, 0019
Sampo	0030, 0039, 0032
Samsung	0060, 0030, 0178, 0019, 0056, 0032
Samsux	0039
Sansei	0451
Sansui	0463
Sanyo	0154, 0159
Scimitsu	0019
Scotch	0178
Scott	0236, 0180, 0178, 0019, 0179
Sears	0047, 0054, 0154, 0156, 0178, 0179, 0056, 0159, 0171, 0747
Semivox	0180
Semp	0156
Sharp	0093, 0165, 0039, 0688
Shogun	0019
Signature	0016
Simpson	0187
Sony	0000
Soundesign	0180, 0178, 0179

Brand	Codes
Spectricon	0003
Squareview	0171
Starlite	0180
Supre-Macy	0046
Supreme	0000
Sylvania	0054, 0030, 0020, 0096
Symphonic	0171
TMK	0178, 0056, 0177
Tandy	0093
Tatung	0055, 0003
Technics	0051, 0250
Technol Ace	0179
Techwood	0051, 0056, 0003
Teknika	0054, 0180, 0150, 0060, 0019, 0179, 0056, 0016, 0039, 0092
Telefunken	0056
Toshiba	0154, 0156, 0060, 1256
Tosonic	0185
Totevision	0039
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0178, 0019
Viking	0046
Wards	0054, 0165, 0030, 0178, 0021, 0019, 0179, 0056, 0016, 0020, 0096
White Westinghouse	0463, 0623, 0624
Yamaha	0030, 0019
Zenith	0017, 0463, 0016, 0092, 0624
Zonda	0003

VCR Codes

Brand	Codes
Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0037, 0000, 0307
Akai	0041, 0061, 0106
America Action	0278
American High	0035
Asha	0240
Audiovox	0037
Beaumark	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209, 0002, 0479
CCE	0072, 0278
Calix	0037
Canon	0035
Capehart	0020
Carver	0081
Cineral	0278
Citizen	0037, 0278
Colt	0072
Craig	0037, 0047, 0240, 0072, 0271
Curtis Mathes	0060, 0035, 0041, 0162, 0760
Cybernex	0240
Daewoo	0045, 0278, 0020, 0561
Daytron	0020
Denon	0042
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0061, 0208, 0212, 0479, 0561

Brand	Codes
Fisher	0047, 0104, 0054, 0066
Fuji	0035
Funai	0000
GE	0060, 0035, 0048, 0240, 0202, 0760, 0761
Garrard	0000
Go Video	0432, 0526, 0643
GoldStar	0037, 0038, 0480
Gradiente	0000, 0008
HI-Q	0047
Harley Davidson	0000
Harman/Kardon	0081, 0038
Harwood	0072
Headquarter	0046
Hitachi	0000, 0042, 0041, 0105
Hughes Network Systems	0042
JVC	0067, 0041, 0008
Jensen	0041
KEC	0037, 0278
KLH	0072
Kenwood	0067, 0041, 0038
Kodak	0035, 0037
LXI	0037
Lloyd's	0000, 0208
Logik	0072
MEI	0035
MGA	0240, 0043, 0061
MGN Technology	0240
MTC	0240, 0000
Magnasonic	0278, 0593
Magnavox	0035, 0039, 0081, 0000, 0149
Magnin	0240
Marantz	0035, 0081

Manufacturers' Codes

Brand	Codes
Marta	0037
Matsushita	0035, 0162, 0454
Memorex	0035, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0162, 0046, 0268, 0299, 0307, 0454, 0479, 1037, 1162, 1262
Minolta	0042, 0105
Mitsubishi	0048, 0067, 0043, 0061
Motorola	0035, 0048
Multitech	0000, 0072
NAD	0058
NEC	0104, 0067, 0041, 0038
Nikko	0037
Nikon	0034
Noblex	0240
Olympus	0035
Optimus	0037, 0048, 0104, 0162, 0058, 0432, 0454, 0568, 0593, 0619, 1048, 1062, 1162, 1262
Optonica	0062
Orion	0184, 0209, 0002, 0479
Panasonic	0035, 0162, 0225, 0454, 0616, 1062, 1162, 1262
Penney	0035, 0037, 0240, 0042, 0038, 0054
Pentax	0042, 0105
Philco	0035, 0209, 0479
Philips	0035, 0081, 0062, 0618, 1081, 1181
Pilot	0037
Pioneer	0067, 0058
Polk Audio	0081
Portland	0020
Profitronic	0240
Proscan	0060, 0202, 0760, 0761
Protec	0072

Brand	Codes
Pulsar	0039
Quarter	0046
Quartz	0046
Quasar	0035, 0162, 0454, 1162
RCA	0060, 0035, 0048, 0240, 0042, 0149, 0105, 0106, 0202, 0619, 0760, 0761
RadioShack	0000, 1037
Radix	0037
Randex	0037
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0062, 0046, 0066
ReplayTV	0614, 0616
Ricoh	0034
Runco	0039
STS	0042
Samsung	0240, 0045
Samtron	0643
Sanky	0048, 0039
Sansui	0000, 0067, 0209, 0041, 0271, 0479
Sanyo	0047, 0240, 0104, 0046, 0268
Scott	0184, 0045, 0121, 0043, 0212
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0046, 0054, 0066, 0105
Semp	0045
Sharp	0048, 0062
Shintom	0072
Shogun	0240
Singer	0072
Sony	0035, 0032, 0000, 0034, 1032
Sylvania	0035, 0081, 0000, 0043
Symphonic	0000, 0593
TMK	0240, 0208
Tatung	0041

Brand	Codes
Teac	0000, 0041
Technics	0035, 0162
Teknika	0035, 0037, 0000
Thomas	0000
Tivo	0618
Toshiba	0045, 0043, 0066, 0212
Totevision	0037, 0240
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045, 0061
Videosonic	0240
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, , 0149, 0062, 0212, 0760
White Westinghouse	0209, 0072, 0278
XR-1000	0035, 0000, 0072
Yamaha	0038
Zenith	0039, 0000, 0209, 0034, 0479, 0637

Television-VCR Combo Codes

Brand	Codes
Action	0317
Broksonic	0002, 0479 (TV:0463)
Citizen	0278
Colt	0072
Curtis Mathes	0035 (TV:0051)
Daewoo	0278 (TV:0624)
Emerson	0002, 0278 (TV:0624), 0294 (TV:0236), 0479 (TV:0463)
Funai	0000
GE	0035 (TV:0051), 0048 (TV:0093), 0060 (TV:0047), 0240

Brand	Codes
GoldStar	0037 (TV:0056)
Harley Davidson	0000
Hitachi	0000
Lloyd's	0000
Magnasonic	0278
Magnavox	0000, 0081 (TV:0054)
Magnin	0240
Memorex	0037, 0162 (TV:0250), 1037, 1162, 1262
MGA	0240
Mitsubishi	0048 (TV:0093)
Optimus	0162 (TV:0250), 0593, 1162, 1262
Orion	0000, 0479 (TV:0463)
Panasonic	0035 (TV:0051), 0162 (TV:0250), 1162, 1262
Penney	0035 (TV:0051), 0037 (TV:0056), 0240
Quasar	0035 (TV:0051), 0162 (TV:0250)
RadioShack	1037
RCA	0035 (TV:0051), 0048 (TV:0093), 0060 (TV:0047), 0240
Sansui	0000, 0479 (TV:0463)
Sanyo	0240
Sears	0000, 0037 (TV:0056)
Sharp	0048 (TV:0093)
Sony	0000, 0032 (TV:0000)
Sylvania	0081 (TV:0054)
Symphonic	0000, 0563
Thomas	0000
White Westinghouse	0278 (TV:0624)
Zenith	0000, 0637 (TV:0624)

DVD Player Codes

Brand	Codes
Aiwa	0641
Apex	0672
Denon	0490, 0634
Fisher	0670
GE	0522
Harman/Kardon	0582
Hitachi	0664
Hiteker	0672
JVC	0558, 0623
Kenwood	0534, 0682
Magnavox	0503, 0675
Marantz	0539
Mitsubishi	0521
Onkyo	0503, 0627
Optimus	0571
Panasonic	0490, 0632
Philips	0503, 0539
Pioneer	0525, 0571, 0632
Proscan	0522
RCA	0522
Samsung	0573
Sharp	0630
Sony	0533
Technics	0490
Theta Digital	0571
Toshiba	0503
Yamaha	0490, 0545
Zenith	0503, 0591

☐ *Specifications*

Power ....(4) AAA Batteries

Dimensions (HWD) .... 9.3 in × 2.5 in × 1.3 in
(235 mm × 64 mm × 33.7 mm)

Weight (Without Batteries) .... 5.5 oz
(155.9 g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.