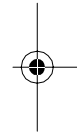


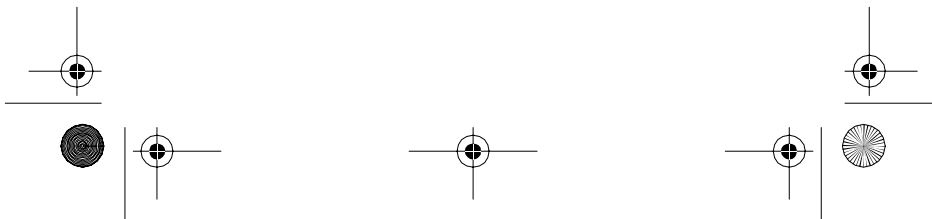
Cat. No. 15-1919
OWNER'S MANUAL

Please read before using this equipment.

6 IN 1 RF REMOTE CONTROL SYSTEM



Radio Shack



INTRODUCTION

Your Radio Shack 6 in 1 RF Remote Control system has a remote control and RF command console that make up a complete home control system, allowing you to send commands to most IR (infrared) controlled devices from any room in your home, up to 100 feet away. You can use it to control your TV, VCR, cable box, and even lights and appliances with Plug 'n Power modules (not supplied).

The 6 in 1 RF Remote Control is preprogrammed. All you have to do is tell it which TV, VCR, or other component's remote controls you want to replace (by entering 3-digit codes), and it is automatically ready to operate most of the same functions as the original remotes.

This manual includes a list of 3-digit manufacturer's codes for TVs, VCRs, cable converters, compact disc players, satellites, and other popular remote controlled devices.

The 6 in 1 RF Remote Control's features include:

IR (Infrared) and RF (Radio-Frequency) Commands — let you use the 6 in 1 RF Remote Control system's remote control with the system's RF command console to control your IR remote-controlled devices from up to 100 feet away, even through walls.

Reassignable Device Keys — so you can control more than one of the same type of device.

Fast Search — when you control more than one of the same type of device, lets you quickly search all programmed manufacturer's codes for that type of device until you find the code for the specific device you want to use.

Channel Scan — lets you scan through available channels on your TV, VCR, or cable box, stopping at each one for about 3 seconds.

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Favorite Channel Scan — lets you set up your system's remote control to scan through a list of up to 10 channels you select.

Programmable Sequence Command — lets you press a single key and send a set of commands.

Plug 'n Power Controls — let you control Plug 'n Power modules.

Powerful Infrared Beam — uses UHF radio frequencies to go through walls, so you can operate your remote-controlled devices from a greater distance than many original remote controls (up to 100 feet!).

Convenient Keypad Design — places the control keys in the perfect position for easy operation.

Handy Reference Label — provides a convenient place for you to write down the manufacturer's codes for your remote-controlled devices.

Toll Free Support and Telephone Programming — lets you get expert help for your 6 in 1 RF Remote Control System by calling **1-800-950-7044**. You can even have the manufacturer's codes for your remote-controlled devices programmed into your remote control by phone!

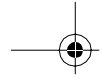
Note: You need four AAA batteries (not supplied) to power your 6 in 1 RF Remote Control System.

Need help? Call 1-800-950-7044!

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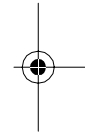
HOW THE SYSTEM WORKS

When you press a key on the system's remote control, it sends a powerful RF signal to the RF command console, which then sends a corresponding IR signal to IR remote controlled-devices in the same room as the command console.

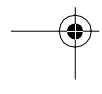
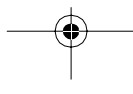
A LOOK AT THE SYSTEM'S REMOTE CONTROL

Your system's remote control was designed to include the functions used most often to operate TV, VCR, cable converter, CD player, satellite receiver, and audio equipment. Most of the keys operate the same as those on your original remote control.

For example, a key on your original remote control labeled PWR ON/OFF is equivalent to **PWR** on the system's remote control.



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The system's remote control also has these special keys.

Key	Function
SET UP	Sets up the system's remote control to replace your original remote controls.
CD, VCR, CBL, TV, AUX1, AUX2, and Plug 'n Power	During set up, tells the system's remote control which remote controls you want to replace. During normal operation, tells the system's remote control which device you want to control.
A/B	Operates like a TV/VCR key on a VCR, or an input toggle switch on a cable box.
SCAN	Lets you easily browse through channels on your TV, VCR, and cable box.
AUDIO SEQ, VIDEO SEQ	Send a sequence of commands at the press of a button.
SURROUND, SHIFT	Control your Surround Sound system and other similar devices.

Notes:

- The remote control's red light turns on when you press a key, and blinks when you enter a function or manufacturer's code.
- When you use the remote control's **RECORD** key, you must press it twice. This safety feature helps prevent you from accidentally recording over audio or video tapes.
- When you use the system's remote control to replace extremely complex remote controls, the system's remote control can duplicate the most commonly used commands of the original remote controls, but might not be able to duplicate some of your original remote control's seldom-used functions.

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SETTING UP THE SYSTEM

INSTALLING BATTERIES IN THE REMOTE CONTROL

Your system's remote control uses four AAA batteries (not supplied) for power. We recommend alkaline batteries, such as Radio Shack Cat. No. 23-555. Follow these steps to install the batteries.

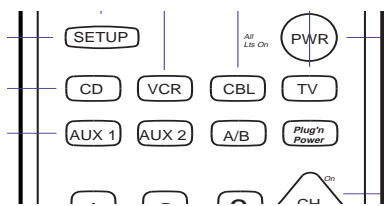
1. Press the battery compartment cover tab and lift off the cover.
2. Install four fresh batteries, as indicated by the polarity symbols marked in the compartment.
3. Replace the cover.

Notes:

- Do not place objects on top of the remote control after you install the batteries. This can press down keys and reduce battery life.
- When the remote control's range decreases or it operates erratically, replace the batteries.
- Be sure to have fresh batteries ready to install before you remove the old batteries. The remote control's memory only lasts about a minute without the batteries. If the memory is lost, you must re-enter the 3-digit manufacturer's codes for your remote-controlled devices.

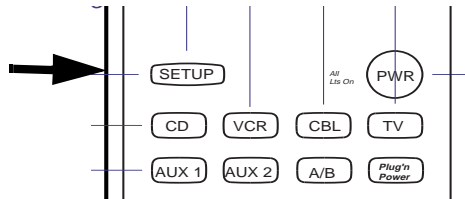
SETTING UP THE REMOTE CONTROL

1. Refer to "Manufacturers' Codes" and write down the codes for your remote-controlled devices on the provided label.
2. Press the device key for the remote control you are replacing (**CD**, **VCR**, **CBL**, **TV**, **AUX1**, or **AUX 2**).



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3. Press down and hold **SET UP** until the red indicator blinks twice, then release it and enter the 3-digit manufacturer's code



For example, to replace a Panasonic TV's remote control (manufacturer's code 051), press:

TV SET UP 0 5 1

When the indicator blinks twice again, you have correctly entered the code.

4. Point the system's remote control at your device and press **PWR**. The device should turn on (or off, if it was on).
5. Repeat Steps 2–4 for additional devices.

If the remote does not operate your device, try other codes listed in "Manufacturers' Codes" for your brand of TV, VCR, cable converter, or other devices.

If your device still does not respond, follow the steps outlined in "If You Have Problems."

Note: The punch-through feature is automatically turned on for the TV's volume and mute controls. This means that when you select cable (**CBL**) and press one of the volume buttons or the mute button, the remote actually sends the codes to the television and not the cable converter. If you want to use your cable converter's volume and mute controls, disable the punch-through feature for these buttons. See "Punch-Through."

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SETTING UP THE SYSTEM'S RF COMMAND CONSOLE

After you set up the system's remote control, just plug the RF command console's power cord into any standard AC outlet in the same room as your IR remote controlled devices (TV, VCR, cable box, and so on) and fully extend its antenna. Make sure the command console is pointed at the devices you want to control..

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OPERATION

Each of the system's remote control device keys are preset to control particular devices, as shown in this list.

TV — TVs only

CBL — Cable converters, satellite receivers, and video accessories

VCR — VCRs, laser disc players, cassette decks, and digital audio tape decks

CD — CD players, amplifiers, tuners, receivers, and miscellaneous audio products

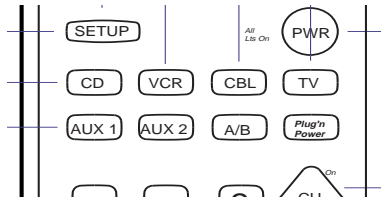
AUX 1 — VCRs, laser disc players, cassette decks, and digital audio tape decks

AUX 2 — Cable converters, satellite receivers, and video accessories

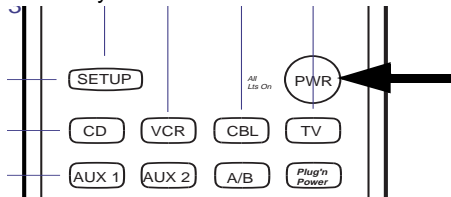
Plug 'n Power — Plug 'n Power or X-10 home automation devices

Follow these steps to use the system's remote control.

1. Press the device key for the device you want to control.



2. Point the system's remote control toward the device you want to control and press the desired command keys.



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Note: The command keys on the system's remote control work the same as the keys on the device's original remote control; however, the labeling might differ slightly.

USING TWO OR MORE SIMILAR DEVICES

Normally, you use each device key to control one of its listed devices (see "Operation"). However, if you have two or more of the same type of device (two TVs, two VCRs, and so on), you can convert any unused device key (**TV**, **CBL**, **VCR**, **CD**, **AUX1**, or **AUX 2**) to control another type of device.

To convert a device key, press **SET UP** until the red indicator blinks twice, then press **9 9 2**, (the key for the device you want to control), then (unused device key). For example, the following key strokes convert an unused **CBL** key to a second **VCR** key.

SET UP 9 9 2 VCR CBL

To change the **CBL** key back to its original function, use the following sequence of key strokes:

SET UP 9 9 2 CBL CBL

OPERATING THE SYSTEM'S RF COMMAND CONSOLE

After you set up the system's remote control, follow these steps to operate your IR remote-controlled devices from anywhere in your house.

1. Point the front of the command console towards the device(s) that you want to control.
2. Press the appropriate device key on your system's remote control, then the desired function keys.

Need help? Call 1-800-950-7044!

SPECIAL FUNCTIONS

Telephone Programming

The telephone programming feature lets you have the manufacturers' codes for your remote-controlled devices programmed into your remote control by phone! Just call 1-800-950-7044 and provide the Customer Service Representative with information about your IR remote-controlled devices. The codes are sent over the telephone lines to your remote control.

Note: Your remote control's telephone programming feature is designed to work with any telephone that meets current FCC specifications for hearing aid capability. However, it might not work with some older cordless telephones. For the best performance, we recommend using a corded phone.

Follow these steps to have your system's remote control programmed by phone.

1. Write down the brand name, model number, and manufacture date (if available) of your TV, VCR, cable box, or other devices that you want to program into your system's remote control. Have this information ready when you call the Radio Shack Customer Service Representative.

Note: If you are unsure of your remote controlled device's specific model number or manufacture date, you can still have your system's remote control programmed by phone and then use the system's Fast Search feature to find the specific code for your device (see "Fast Search").

2. Call 1-800-950-7044 and tell the Customer Service Representative what IR remote-controlled devices you want to program into your system's remote control. Be sure to give the brand name, model number, and manufacture date (if known) of all devices you want to have programmed.
3. After providing the brand and model information to the Customer Service Representative, press and hold **SET UP** until the red indicator blinks twice, then press **PWR**.

Need help? Call 1-800-950-7044!

4. Hold the system's remote control up to your telephone's earpiece.

Note: You must hold the telephone's earpiece over the remote control's battery compartment. If you do not, the system's remote control might not be able to properly receive the information coming over the phone.

While the system's remote control is receiving information, the red indicator blinks occasionally. When all programming is complete, the red indicator blinks twice.

Fast Search

If you have programmed the manufacturers' codes for more than one of the same type of device, the remote control has a fast search feature that lets you quickly search all programmed device codes one at a time until you find the right code for the device you want to use.

Note: After you have your remote control programmed by telephone, the remote control immediately goes into the fast search mode.

1. To search the codes programmed for TV, point the remote control at your TV and press **TV**. The remote control sends the signal for the first programmed TV code.
2. Press **1**. Your remote control sends the signal for the next programmed TV code.
3. Continue pressing the digit keys (**1**, **2**, **3**, **4**, and so on) until your TV responds.
4. When your TV responds, press **SETUP** to lock in the code.
5. Press **TV**, then **PWR** to be sure the TV responds.
6. To fast search codes for another device, repeat Steps 1-5.

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7. To exit the fast search mode, press **SET UP**.

Note: You can search up to 11 codes for a particular device (TV, VCR, cable, and so on).

Channel Scan

The channel scan feature lets you scan through all channels on your TV, VCR, or cable box, stopping at each channel for about 3 seconds.

To scan through available channels, first press the device key (**TV**, **VCR**, or **CBL**). Then aim the system's remote control at the device and press **SCAN**. The 6 in 1 system automatically scans through available channels. To stop scanning, press any key on the remote control.

Note: If you are not using the command module, the remote control must be pointed at the device the entire time you use channel scan.

Favorite Channel Scan

The Favorite Channel Scan feature lets you set up your system's remote control to scan through a list of up to 10 channels you select.

Follow these steps to set up a list of your favorite channels.

1. Press the desired device key (**TV**, **VCR**, or **CBL**).
2. Press and hold down **SET UP** until the red indicator blinks twice.
3. Release **SET UP** and press **9 9 6**.
4. Enter the number of the first channel, then press and release **SET UP**.

For example:

- 0 9 SET UP** (for Channel 9)
- 1 2 SET UP** (for Channel 12)
- 1 4 SET UP** (for Channel 14)

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Notes:

- You must enter a zero before a single-digit channel number (01, 02, 03, and so on).
 - If you normally press **ENTER** after entering a channel number to change to a new channel, you must press **ENTER** instead of **SET UP**.
5. Repeat Step 4 to continue entering channels you want to include in your favorite channel scan list. After you have entered the last channel number, hold down **SET UP** (the last time) until the red indicator light blinks twice.
 6. To scan through your favorite channels, press **SCAN** and keep the system's remote control aimed at your TV. The remote control scans through the selected channels, stopping on each one for 3 seconds. To stop scanning, press any key on the remote control.

Note: You can only set up the favorite channel scan feature for one device at a time. To clear the favorite channel list, press and hold down **SET UP** until the red indicator light blinks twice. Then press **9 9 6 SET UP SET UP**, and hold down **SET UP** the last time until the red indicator light blinks twice.

Sequences

You can use **AUDIO SEQ** or **VIDEO SEQ** on your 6 in 1 RF Remote Control System's remote control to send a set of commands at the press of a button. Any sequence of commands you regularly perform can be reduced to a single keypress.

For example, you might want to turn on your TV and cable box, then set the cable box to Channel 3.

Follow these steps to set up that sequence.

1. Press and release **TV**, then press and hold down **SET UP** until the red indicator light blinks twice.
2. Press **9 9 5 VIDEO SEQ**.
3. Enter the desired sequence. For example:

TV PWR CBL PWR 0 3.

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Note: If you normally press **ENTER** after entering a channel number, you must also include **ENTER** in your sequence.

4. To store the sequence, press and hold down **SET UP** until the red indicator light blinks twice.

Whenever you press the selected sequence key (**AUDIO SEQ** or **VIDEO SEQ**), your system's remote control sends the sequence of commands you entered.

To erase a sequence, press the device key, then hold **SET UP** until the red indicator light blinks twice. Then press **9 9 5** and the key to which the sequence is assigned (**AUDIO SEQ** or **VIDEO SEQ**). Press **SET UP** until the red indicator blinks twice again. The sequence is erased.

Punch-Through

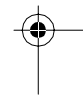
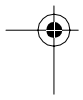
The punch-through feature lets you alternately control two different devices without pressing the device keys for each one. Here's how it works.

The 6 in 1 RF Remote Control System's remote control keys are not all used by every device. For example, a TV is often the only device that uses **VOLUME**. When you press **TV**, then press **VCR**, the functions of any keys not used by the VCR retain their TV functions. If your cable box or VCR has a volume control, you can turn off the punch-through feature to allow your cable converter or VCR to control the volume. If you want to control volume through your cable converter, you must be in the cable mode. If you want to control the volume through your VCR, you must be in the VCR mode.

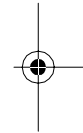
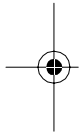
For example, to turn off punch-through, with the remote in the cable mode, press and hold **SET UP** until the red indicator blinks twice. Then press **9 9 3 CBL**. When the indicator blinks twice a second time, volume is controlled through your cable box.

To turn on punch-through for the TV, press **SET UP 9 9 3 TV**. When the indicator blinks twice a second time, the punch-through feature has been turned back on.

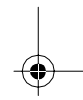
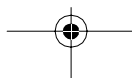
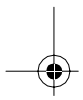
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The punch-through feature does not work if the last two devices you select have the same (or similar) features. For example, most TVs and some cable converters have CHANNEL keys on their remote controls. In this case, you must press the desired device key before you use the remote control's **CH** keys.



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PLUG 'N POWER

The Plug 'n Power feature lets you use the system to control lamps and appliances with Plug 'n Power modules, available at your local Radio Shack store.

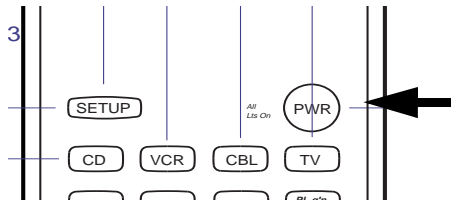
Follow these steps to control Plug 'n Power modules with the system's remote control and RF command console.

1. Set the house code dial on top of your RF command console to the same letter as your Plug 'n Power modules.

2. Set the bank switch on the RF command console for the group of modules you want to control (**1-4** or **5-8**). With the switch in the **1-4** position, you can control module numbers 1, 2, 3, and 4. With the switch in the **5-8** position, you can control modules 5, 6, 7, and 8 .
3. Press **Plug 'n Power** on the system's remote control.

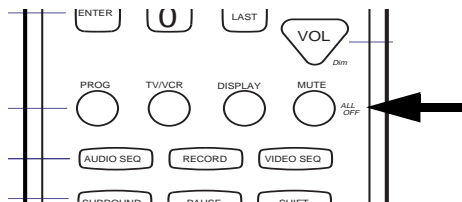
Need help? Call 1-800-950-7044!

- To turn on all light and appliance modules with your remote control, press **All Lts On (PWR)** on the remote control, or **ALL LIGHTS ON** on the RF command console.



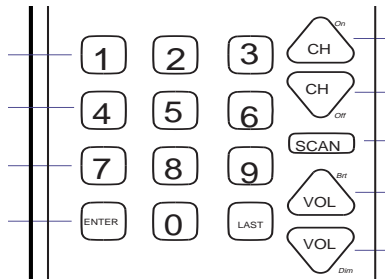
Note: This affects all light modules and wall switch modules set to the same house code as the command console.

To turn off all light and appliance modules, press **All Off** on the system's remote control, or **ALL UNITS OFF** on the RF command console.



Note: This affects all lamp, appliance, and wall switch modules set to the same house code as the command console.

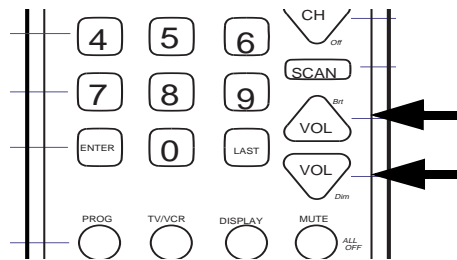
- To turn on or off specific lamps and appliances using the remote control, press the appropriate digit key (1, 2, 3, 4, 5, 6, 7, or 8) for the selected module. Then press **On** or **Off** on your remote control.



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To control specific lamps and appliances directly from the RF command console, press the top button of the corresponding module number (1, 2, 3, 4 or 5, 6, 7, 8) to turn on the module. Press the bottom button to turn off the module.

6. To brighten or dim lights connected to lamp and wall switch modules, turn on the specific module (as described in Step 5). Then press and hold **Brt** or **Dim** on the system's remote control (or **BRIGHT** or **DIM** on the RF command console). Release the key when the desired brightness is reached.



Note: You must turn lights on individually to use the dimmer. It does not work if you turned all the lights on at the same time from the system's remote control or RF command console.

Need help? Call 1-800-950-7044!

MANUFACTURERS' CODES

The following list tells you which 3-digit codes to enter to set up the 6 in 1 RF Remote Control System's remote control.

Notes:

- Use the supplied label to record the manufacturers' codes for your remote-controlled devices.
- The system's remote control is not always able to produce every command of your original remote controls.
- A key on the system's remote control that has the same name as a key on your original remote control might have a slightly different function.

SETUP CODES FOR TELEVISIONS

Admiral	093, 016
Aiko	092
Akai	030, 098
Anam	180, 068, 004
Anam National	161, 055
AOC	019, 030, 185, 137, 052, 003
Archer	15-8287 003
Audiovox	003, 180
Bell & Howell	016, 154
Candle	046, 186, 030, 056
Capehart	052
Carver	054
Citizen	030, 046, 060, 056, 092, 039, 280, 186
Concerto	056
Contec	158, 157, 185, 180
Craig	180, 161

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SETUP CODES FOR TELEVISIONS (continued)

Crown	039, 180
Curtis Mathis	060, 030, 039, 154
Daewoo	092, 019, 039, 067, 066, 091
Daytron	039
Dynatech	049
Electrohome	039
Emerson	236, 158, 180, 177, 185, 039, 183, 178, 182, 179, 181, 282, 280, 270
Envision	030
Fisher	154, 159
Funai	179, 180, 171
Futuretech	180
GE	047, 051, 055, 021, 027, 178, 174, 279, 251, 282
Goldstar	060, 056, 178, 030, 019, 002, 001, 106
Hallmark	178
Harman Kardon	078
Hitachi	151, 145, 227, 056, 038, 095, 097, 173, 279
Infinity	054
Kenwood	030
JVC	053, 182, 069, 169
Jensen	050
KTV	185, 039, 180, 217, 280
Kamp	216
Kawasho	216, 308

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SETUP CODES FOR TELEVISIONS (continued)

Kenwood	030
Kloss	078, 046, 024
LXI	047, 154, 156, 054, 148
Logik	016
Luxman	056
MGA	150, 155, 030, 178, 019
MTC	019, 049, 030, 185, 060, 091, 056
Magnavox	054, 096, 187, 186, 030, 028, 024, 020, 230
Marantz	054, 030
Matsui	217
Memorex	016, 019, 154
Mitsubishi	150, 178, 155, 019, 098, 014
MTC	019, 060, 056, 049, 030
Multitech	217, 049
NAD	156
NEC	019, 170, 036, 056, 030
Nikko	030, 092, 317
Onwa	180
Optimus	
31-3031	166
Optonica	093, 165
Panasonic	051, 055, 054, 338, 162
Penneys	030, 021, 060, 135, 047, 149, 039, 019, 018
Philco	054, 030, 019, 020, 024, 028, 186, 187, 096

Need help? Call 1-800-950-7044!

SETUP CODES FOR TELEVISIONS (continued)

Philips	054
Pioneer	166, 038
Portland	019, 039, 092
Proscan	047
Proton	052, 031, 178
Pulsar	017
Quasar	055, 051, 219
Radio Shack	
16-263	019
16-229	154
16-230	032
16-232	165
16-233	039, 165
16-234	039
16-236	165
16-246	180
16-250	165
16-251	165
16-252	165, 180
16-253	165
16-253A	180
16-254	030
16-255	030
16-256	030, 178
16-260	165
16-262	165, 180
16-292	180
16-265	030
16-268	178
16-280	178
16-288	056
16-289	047
16-299	154

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SETUP CODES FOR TELEVISIONS (continued)

Realistic

15-8287	003
16-229	154
16-230	032
16-231	039
16-232	165
16-233	165
16-234	039
16-235A	165
16-236	165
16-242	180
16-246	180
16-250	165
16-251	165
16-252	180
16-253A	180
16-254	019
16-255	030
16-256	030
16-260	165
16-261	154
16-262	180
16-263	019, 178
16-265	030
16-280	178
16-288	056
16-292	180
16-299	154
16-515	154

Sampo	030, 052, 100, 110
Samsung	060, 039, 019, 030, 032, 056
Sanyo	154, 159, 146, 232
Scott	236, 179, 180
Sears	148, 047, 154, 156, 178, 146, 159, 056, 179, 149
Sharp	093, 165, 153, 039, 220
Signature	016
Sony	000, 011, 111, 080, 273

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SETUP CODES FOR TELEVISIONS (continued)

Soundesign	178, 180, 186
SSS	019, 180
Supre-Macy	046
Sylvania	054, 096, 065, 020, 024, 028, 030, 186, 187
Symphonic	171
Tatung	055, 049, 003
Technics	051
Techwood	056
Teknika	092, 056, 039, 060, 186, 175, 312, 019, 150, 016, 180, 179, 322
Tera	031
TMK	056, 178
Toshiba	154, 156, 060, 036, 149
Tosonic	185
Totevision	039
Universal	021, 027
Vector Research	030
Victor	053
Video Concepts	098
Vidtech	178, 019
Wards	054, 187, 174, 030, 029, 165, 179, 016, 178, 021, 027, 020, 096, 028, 019
Yamaha	019, 030
Zenith	017, 016
Zonda	003

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SETUP CODES FOR VCERS

Action	317
Aiwa	000
Akai	041, 049, 106, 242, 156, 053, 061
Bell & Howell	104
Broksonic	211, 184, 121, 361
Canon	035, 167
Carver	081, 110
Craig	240, 047, 271
Curtis Mathes	035, 060
Daewoo	020, 278, 017, 087, 045
Daytron	020
Dynatech	000
Emerson	184, 278, 068, 211, 121, 061, 209, 208, 212, 000, 088, 037, 036, 294, 002
Fisher	104, 046, 047, 054, 066
Funai	000
GE	060, 202, 035, 065
Garrard	000
Go Video	232, 279
Goldstar	037, 038, 018
Harman Kardon	038, 075
Hitachi	000, 041, 042, 105, 166, 065, 235
JVC	008, 067, 041, 206, 207, 384
Jensen	041
Kenwood	067, 008, 041, 046

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SETUP CODES FOR VCRS (continued)

Lloyd	000
LXI	037
Logik	072
Magnavox	035, 081, 110, 103, 149, 039
Marantz	035, 081, 038, 146
Marta	037
MEI	035
Memorex	037, 039, 000, 048, 104, 046, 035, 047, 299, 268
MGA	043, 242, 061, 075, 214
MGN	240
MTC	000, 240
Minolta	042, 105
Mitsubishi	043, 242, 061, 075, 214
MTC	000, 240
Multitech	000, 072
NAD	058
NEC	038, 041, 067, 008, 050, 040, 082
Nikko	037
Optimus	16-538 048 16-539 048 16-540 048
Optonica	048, 062
Panasonic	081, 110, 035, 077, 225

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SETUP CODES FOR VCRS (continued)

Penney	240, 038, 035, 040, 042, 037
Pentax	042, 105, 065
Philco	035, 081, 110, 062
Philips	035, 081, 110, 062
Pilot	037
Portland	020
Pulsar	039
Pulser	051
Quartz	046, 155
Quasar	035, 077, 081, 110
RCA	060, 202, 035, 077, 065, 042, 105, 149
Radio Shack	047, 037, 240, 046, 062, 048, 035
	16-9602 000
	16-9603 000
	16-9604 000
	16-9620 104
	16-9630 104
	16-9640 104

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SETUP CODES FOR VCRS (continued)

Realistic

16-251	104
16-404	000
16-406	000
16-408	037
16-410	000
16-411	000
16-414	037
16-472	035
16-503	063, 066
16-505	000
16-506	047
16-507	037
16-508	000
16-510	000
16-511	047
16-512	047
16-513	047
16-514	040
16-515	037, 047
16-516	047
16-518	047
16-519	000
16-520	104
16-521	104
16-522	000
16-529	104
16-530	104
16-533	240
16-534	037
16-535	037
16-536	104
16-537	104
16-541	240
16-542	048
16-544	048
16-563	104
16-600	046

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SETUP CODES FOR VCRS (continued)

Realistic

16-601	046
16-610	062
16-611	048
16-612	048
16-613	047
16-614	047
16-615	047
16-616	048
16-617	104
16-623	104
16-624	037
16-625	104
16-627	048
16-628	048
16-651	035
16-652	047
16-653	048
16-700	062
16-701	048
16-702	048
16-703	000
16-704	000
16-705	035

Richo 034, 253

Samsung 240, 051, 053, 045

Sansui 041, 105, 082, 067, 008, 241

Sanyo 104, 046, 054, 066, 268,
240,047

Scott 121, 184, 212, 210, 045

Sears 054, 066, 104, 047, 046, 037,
042, 057, 105

Sharp 048, 062

Shintom 072

Sony 034, 033, 032, 011, 253, 275

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SETUP CODES FOR VCERS (continued)

STS	042
Sylvania	035, 043, 000, 103, 081, 110
Symphonic	000
Tatung	041
Teac	000, 041
Technics	035, 081, 110
Teknika	037, 035, 052, 000
Toshiba	043, 045, 210, 066, 057, 212
Totevision	240, 037
Unitech	240
Vector Research	040, 038
Victor	067, 008
Video Concepts	040, 061
Videosonic	240
Wards	240, 000, 035, 048, 072, 042, 062, 212, 149, 047
Yamaha	041, 038
Zenith	039, 033, 034, 032

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SETUP CODES FOR LASER DISCS

Aiwa	203
Carver	203
Denon	172
Disco Vision	023
Funai	203
Hitachi	023
Kenwood	258
Magnavox	241, 064
Marantz	064
Mitsubishi	059
NAD	059
Panasonic	204
Philips	064
Pioneer Unified	023, 059
RCA	128, 351
Realistic 16-302	203
Sharp	001
Sony	193, 201
Yamaha	217

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SETUP CODES FOR VIDEO ACCESSORIES

Channel Master	094
Jebsee	160
Rabbit	081
Radio Shack	160
15-1957	
Superguide	169
Telecaption	171

SETUP CODES FOR SATELLITE RECEIVERS

Amplica	072
BSR	095
Birdview	045, 079
Capetronics	095
Channel Master	018, 212, 257
Chaparral	053, 209
DX Antenna	065, 041
Drake	018, 062, 064, 066, 149, 150, 245
Echostar	148, 159, 269
Fujitsu	186, 236
General Instruments	071, 038, 050
Hytek	095
Janeil	152
Jerrold	036
Kenwood	264
Luxor	083

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SETUP CODES FOR SATELLITE RECEIVERS

(continued)

Macom	050, 018, 061
Memorex	269
NEC	102
Norsat	004, 165
Panasonic	152
Realistic	
16-2501	051
16-2507	052
STS	041, 065, 190, 210
Scientific Atlanta	234
Star Trak	180
Super Guide	311
Toshiba	061, 082
Uniden	076, 052
Video Cypher II	050

SETUP CODES FOR CABLE CONVERTERS

ABC	011, 014, 007, 013, 017, 003, 001
Antronix	207
Archer	
15-1285	022
15-1285A	207
15-1285	207
15-1285	039
15-1287	153
Cable Star	056
Comtronics	060, 040
Eagle	

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SETUP CODES FOR CABLE CONVERTERS

(continued)

Century	153
Citizen	153, 315
Contec	019
Eastern	002
GC Electronics	056, 207
GE	233, 232
Gemini	057, 070, 015, 242
General Instruments	011, 003, 476
Hamlin	020, 034, 259, 009
Hitachi	011
Jasco	153, 315
Jerrold	003, 014, 011, 026, 024, 015, 047, 098, 276, 012, 476
Macon	033
Magnavox	027, 032
Memorex	000
Movie Time	078, 203, 063
NSC	063, 070, 203
Oak	007, 019, 248
Panasonic	021, 107
Paragon	000
Philips	060, 153, 027, 028, 029, 030, 031, 290, 025, 242
Pioneer	144, 023, 260
Popular Mechanics	400

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SETUP CODES FOR CABLE CONVERTERS

(continued)

Pulsar	000
RCA	021
Realistic	
16-1283	207
TV-200	207
Regal	279, 020, 059, 273
Regency	002
Rembrandt	070
Samsung	144, 040
Scientific Atlanta	008, 277, 017, 006, 327
Signal	040
Signature	011
SL Marx	040
Sprucer	021, 307
Starcom	015, 047, 003, 098
Stargate	040, 015
Sylvania	001
Telecaption	211
Texscan	001, 096
Tocom	013, 059, 012
Toshiba	000
Unika	207, 153, 022
United Artists	007
United Cable	003
Universal	078, 056, 077, 207, 022, 039, 191, 153

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SETUP CODES FOR CABLE CONVERTERS

(continued)

Viewstar	027, 060, 063, 111, 211
Zenith	000, 054

SETUP CODES FOR CD PLAYERS

ADC	018
ADS	243
Adcom	192, 155, 234
Aiwa	012, 124, 249
Akai	156
Audio Alchemy	194
Audio-Technica	170
BSR	194
California Audio Lab	029
Capetronic	237
Carrera	194, 394
Carver	157, 179, 437
Casio	201
Clarinette	195
Crown	122
Curtis Mathes	201
Denon	003, 034, 358
Emerson	155, 305, 164, 469
Fisher	048, 342, 174, 179, 088
GE	009, 334

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SETUP CODES FOR CD PLAYERS (continued)

Garrard	280, 425
Genexxa	032, 305, 164
Goldstar	030, 417, 383, 394
Harman Kardon	109, 108, 173
Hitachi	032, 155, 386
Inkel	065, 061
JVC	072
Kenwood	028, 037, 048, 190, 340
Kodak	287
Krell	157
Kyocera	018
Luxman Unified	149, 035, 093
LXI	305
Luxman	093, 149, 266, 432, 483
Magnavox	157, 225, 129
Marantz	005, 157, 180, 029
MCS	043, 029, 201, 454
MGA	083
McIntosh	290
Mission	157
Mitsubishi	098, 083
Modulaire	195
NAD	019
NEC	043, 234
Nakamichi	097, 147
Nikko	170, 174, 164

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SETUP CODES FOR CD PLAYERS (continued)

Onkyo 102, 101, 138

Optimus

13-1251 037
31-3027 032
31-3028 032
31-3031 032
42-5013 175
42-5015 179
42-5016 194
42-5019 196
42-5022 420
42-5023 437
42-5024 437
42-5030 437
42-5031 426
42-5037 179, 342
42-5040 032
42-5044 032
42-5048 305
42-5049 179
42-8402 096
42-9402 426

Panasonic 029, 388

Penney 043

Philips 157, 274

Pioneer 096, 244, 032, 468

Proton 157, 152

Quasar 029

RCA 053, 179, 155, 305

Realistic 155, 164, 175, 179, 180, 237,
420
13-9182 452
13-9192 453
42-8400 164
42-8403 032
42-8404 305
42-8405 164

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SETUP CODES FOR CD PLAYERS (continued)

Rotel	157, 420
SAE	157
Sansui	157, 305, 202
Sanyo	179, 087
Scott	164, 305, 155
Sears	201, 261, 037, 180, 265, 305
Sharp	037, 180
Sherwood	180, 065, 114, 061, 196
Signature	108
Sony	000, 185, 490
SounDesign	145
STS	018
Sylvania	157, 225
Symphonic	183
Teac	016, 045, 153, 174, 420, 393, 180, 183
Technics	029
Techwood	363
Toshiba	019
Vector Research	394, 417, 194, 109
Victor	072
Wards	108
Yamaha	036, 170, 187
Yorx	461

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SETUP CODES FOR AUDIO AMP/TUNERS

Adcom	002, 304, 319
Aiwa	121, 158, 064, 301, 405, 361
Akai	076, 450
Carver	008, 042, 270, 189, 360
Casio	195
Denon Unified	004
Fisher	042, 360
GE	260
Garrard	146, 286, 407
Goldstar	057
Harman Kardon	110, 107
Inkel	066, 062
JVC	074
Kenwood Unified	313, 027, 314, 186
LXI	181
Luxman	166, 329
Magnavox	189, 195, 128
Marantz	006, 189, 128, 039
MCS	044, 039
Memorex	335
NAD	320
Nakamichi	075, 347
Nikko	215, 322, 407
Onkyo	100, 119, 135, 144, 380

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SETUP CODES FOR AUDIO AMP/TUNERS

(continued)

Optimus

13-1251	186
16-9601	177
31-3017	177
31-3020	177
31-3027	080
31-3028	080
31-3029	058, 080
31-3030	058, 080
31-3031	058, 080

Panasonic 039, 389

Penney 195, 449

Philips 189

Pioneer Uni- 014, 080, 150
fied

Proton 026, 047

Quasar 039

RCA Unified 054, 360

Realistic

13-1233	181
13-1234	181
13-1235	181
13-1236	182
13-1238	182
13-1243	181
13-1244	181
13-1246	182
13-8100	163
16-1285	178
16-9601	177
31-1130	001
31-3016	025

STS 217

Sansui 189, 193, 323

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SETUP CODES FOR AUDIO AMP/TUNERS

(continued)

Scott	105, 163, 322, 418, 396, 390, 449
Sharp	117, 186
Sherwood	062, 066, 324
Sony Unified	158, 168, 415, 474
Symphonic	182
Teac	163, 298, 463, 387
Technics	039, 208, 309, 518
Techwood	364
Vector Research	218
Yamaha	176, 081, 186
Yorx	195

SETUP CODES FOR AUDIO AMPLIFIERS

Aiwa	406
Denon Unified	160
GE	078
Goldstar	031
Harman Kardon	106
Kenwood	297, 356
Luxman	165
Marantz	321
NEC	092, 116, 131, 264

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SETUP CODES FOR AUDIO AMPLIFIERS

(continued)

Optimus

31-2022	395
31-2100	395
31-2105	395
31-2106	395
31-2107	395
31-2120	395
31-3018	395
31-3019	395
31-3021	395
31-3022	395
31-3024	013
31-3025	013
31-3026	013
31-3027	013
31-3028	013
31-3029	300
31-3030	300
31-3031	300

Philips 269

Pioneer 300, 257

Pioneer Unified 013

Realistic

13-9168	231
31-3013	395

Sansui

Shure 264

Sony 220

Soundesign 078, 211

Technics 308, 372, 374

Yamaha 143, 354

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SETUP CODES FOR MISCELLANEOUS AUDIO

ADC	086
Aiwa	010, 159, 404
AudioSource	351
BSR	086
Carver	351
Denon	359
Fisher	052
Harman Kardon	477
JVC	073
Jerrold	459
KLH	351
Luxman	326
Mitsubishi	132
NEC	236
Pioneer	089, 248
Proton	046
RCA	056, 248
Realistic	
13-9185	376
Schneider	376
Scientific Atlanta	460
Sony Unified	010, 159
SounDesign	376
Technics	517
Yorx	376

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SETUP CODES FOR AUDIO CASSETTE DECKS

ADC	171
Aiwa	029
Akai	188, 189
Carver	029
Denon Unified	076
Fisher	074
Garrard	300, 439
Harman Kardon	182
JVC	244
Kenwood	070, 071, 092
Kyocera	171
Luxman Unified	091, 095
Magnavox	029
Marantz	029
NAD	144
NEC	165
Nakamichi	147
Onkyo Unified	100, 136
Optimus	
13-1247	300, 439
31-3027	220
31-3028	027, 220
31-3029	027, 220
31-3030	027, 220
31-3031	027, 220
Panasonic	250, 272
Philips	029
Pioneer	027, 099, 220

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SETUP CODES FOR AUDIO CASSETTE DECKS

(continued)

Proton	028
Sansui	029
Sony	170, 243
Wards	027
Yamaha	094

SETUP CODES FOR HOME AUTOMATION

GE	240
One-For-All	167
Radio Shack	240
Security System	167
Universal	167
One-For-All Security System	167

Need help? Call 1-800-950-7044!

IF YOU HAVE PROBLEMS

SEARCHING THE CODE LIBRARY

If the 6 in 1 RF Remote Control System's remote control does not operate your remote-controlled devices when you first set it up, you probably haven't entered the correct 3-digit codes for your devices. You can try all the codes for the brand of your device, but because many manufacturers make products using several different brand names, you might want to search the system's entire library by following these steps.

1. Manually turn on the device you are trying to set up, then press the appropriate device key on your system's remote control.
2. Aim the system's remote control at the device.
3. Press and hold down **SET UP** until the red indicator blinks twice. Release **SET UP** and press **9 9 1**. The red indicator blinks twice.
4. After the two blinks, repeatedly press **PWR**, then the device key for the type of device. For example:

PWR TV PWR TV PWR ...

Each time you press the device key, the remote control advances to the next manufacturer's code in its library.

5. When the device responds, press and release **SET UP** to lock in the manufacturer's code.

If necessary, repeat these steps for each device key.

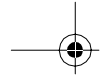
VIEWING A DEVICE'S CODE

To determine which 3-digit code the system's remote control is set to, press the device key, then hold down **SET UP** until the red indicator blinks twice. Release **SET UP** and press **9 9 0 1**. The system blinks out the number of the first digit of the manufacturer's code.

Note: The red indicator light does not blink if a digit in the code is a zero.

Press **2** to see the second digit of the manufacturer's code, and **3** to see the third digit.

Need help? Call 1-800-950-7044!



TROUBLESHOOTING

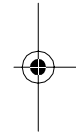


If the system's remote control stops working after you successfully test the control of each device, or if you are unable to get the remote control to work at all, check the following:

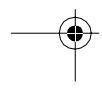
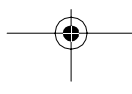
- Use manual controls or the original remote control to confirm that your remote-controlled devices are working properly.
- Be sure you pressed the device key for the device you want to control.
- Replace the remote control's batteries.
- If you are using the system's RF command console, make sure it is plugged in and installed in the same room as the IR remote controlled devices you want to operate. Be sure to point the RF command console at the devices you want to control.
- If some buttons do not function for your device, you might be able to search for a better device code.



If you are still unable to determine the problem, call our nationwide Universal Remote Control Hotline at 1-800-950-7044.



Need help? Call 1-800-950-7044!



FCC CAUTION

This equipment generates and uses radio frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for remote control devices in accordance with the specifications in sub-part B and C of Part 15 of *FCC Rules*, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by unplugging the equipment, try to correct the interference by one or more of the following measures.

- Reorient the antenna of the radio/TV experiencing interference.
- Relocate the RF command console with respect to the radio/TV.
- Move the RF command console away from the radio/TV.
- Plug the RF command console into an outlet on a different electrical circuit from the radio/TV experiencing the interference.

Contact your local Radio Shack store if the problem continues.

Need help? Call 1-800-950-7044!

CARE AND MAINTENANCE

Your Radio Shack 6 in 1 Remote Control system is an example of superior design and craftsmanship. The following suggestions will help you care for your system so you can enjoy it for years.

- Keep the system's remote control and RF command console dry. If they get wet, wipe them dry immediately. Liquids can contain minerals that corrode electronic circuits.
- Use and store the system only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.
- Handle the system's remote control and RF command console gently and carefully. Dropping them can damage circuit boards and cases and can cause the system to work improperly.
- Keep the system away from dust and dirt, which can cause premature wear of parts.
- Wipe the system's remote control and RF command console with a damp cloth occasionally to keep them looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean your system.

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

Need help? Call 1-800-950-7044!

SPECIFICATIONS

Remote Power..... 4 AAA Alkaline Batteries

RF Command Console Power..... 120 Volts AC

Remote to RF Command Console

Range.....100 Feet (304.8 m)

RF Command Console to Device

Range.....25 Feet (7.62 m) ±30

Remote Dimensions .27⁷/₁₆ × 7¹⁴/₁₆ × 1¹/₈ Inches (HWD)

RF Command Console

Dimensions..... 3⁵/₈ × 4¹/₂ × 1¹/₁₆ Inches (HWD)

Remote Weight (Without Batteries) .. 5 oz. (141.75 gm)

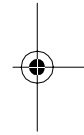
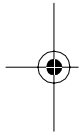
RF Command Console Weight..... 9 oz. (255.15 gm)

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

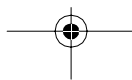
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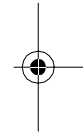
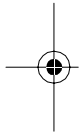
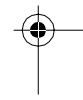
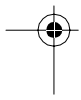
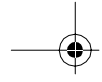


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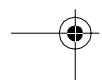
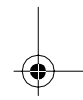
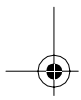


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