

# ***Video Sender***

**AUDIO/VIDEO EXTENDER SYSTEM**



**OWNER'S MANUAL**

**MODEL VK22A**

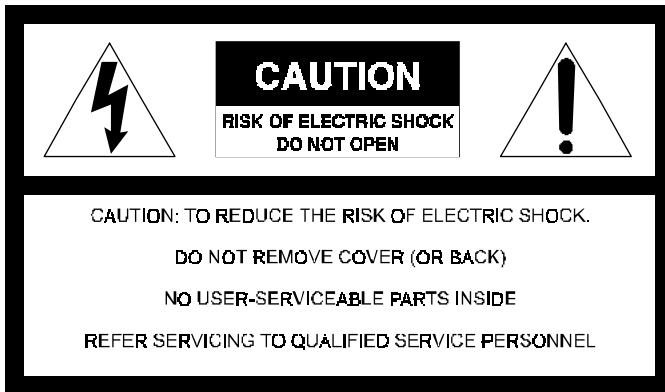
**(INCLUDES VT20A TRANSMITTER, VR20A RECEIVER,  
AND UR23A UNIVERSAL BACKLIT REMOTE)**

# INTRODUCTION

Your Wireless Video Sender kit consists of a transmitter base unit which connects to your DSS™ receiver, and a receiver unit which connects to the TV in another room. The Video Sender Transmitter converts the A/V signal from your DSS into a radio signal and transmits it (even through walls) to the Video Sender Receiver unit. The Video Sender Receiver converts the signals back to A/V signals which are fed through a cable to your TV's A/V input jacks.

When used with X-10 universal remotes your Video Sender also allows you to operate your DSS while watching it in another room. By purchasing an optional X-10 Powermid (Model PM5900) you can control other A/V products such as VCRs, Cable Boxes, etc. while watching a TV in another room.


There are just a few simple steps to follow to hook up your Video Sender kit to a DSS, VCR or Cable Box.



## WARNING:

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

# IMPORTANT SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture - Do not use this product near water - for Example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool; and the like.
8. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn. 
10. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. Power Sources - This product should be operated only from the type of power

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source indicated on the marking label. If you are not sure of the type or power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Grounding or Polarization - This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the cutlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. Power-Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
15. Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
17. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged,
  - b) If liquid has been spilled, or objects have fallen into the product,
  - c) If the product has been exposed to rain or water,

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- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
  - e) If the product has been dropped or damaged in any way, and
  - f) When the product exhibits a distinct change in performance - this indicates a need for service.
19. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

## FCC CAUTION

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

This equipment generates and uses radio frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturers instructions, it 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-Parts 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 the interference.
- Relocate the equipment with respect to the radio/TV.
- Move the equipment away from the radio/TV.
- Plug the equipment into an outlet on a different electrical circuit from the radio/TV experiencing the interference.
- If necessary, consult your local Dealer for additional suggestions.

**NOTE:** Modifications to this product will void the user's authority to operate this equipment.

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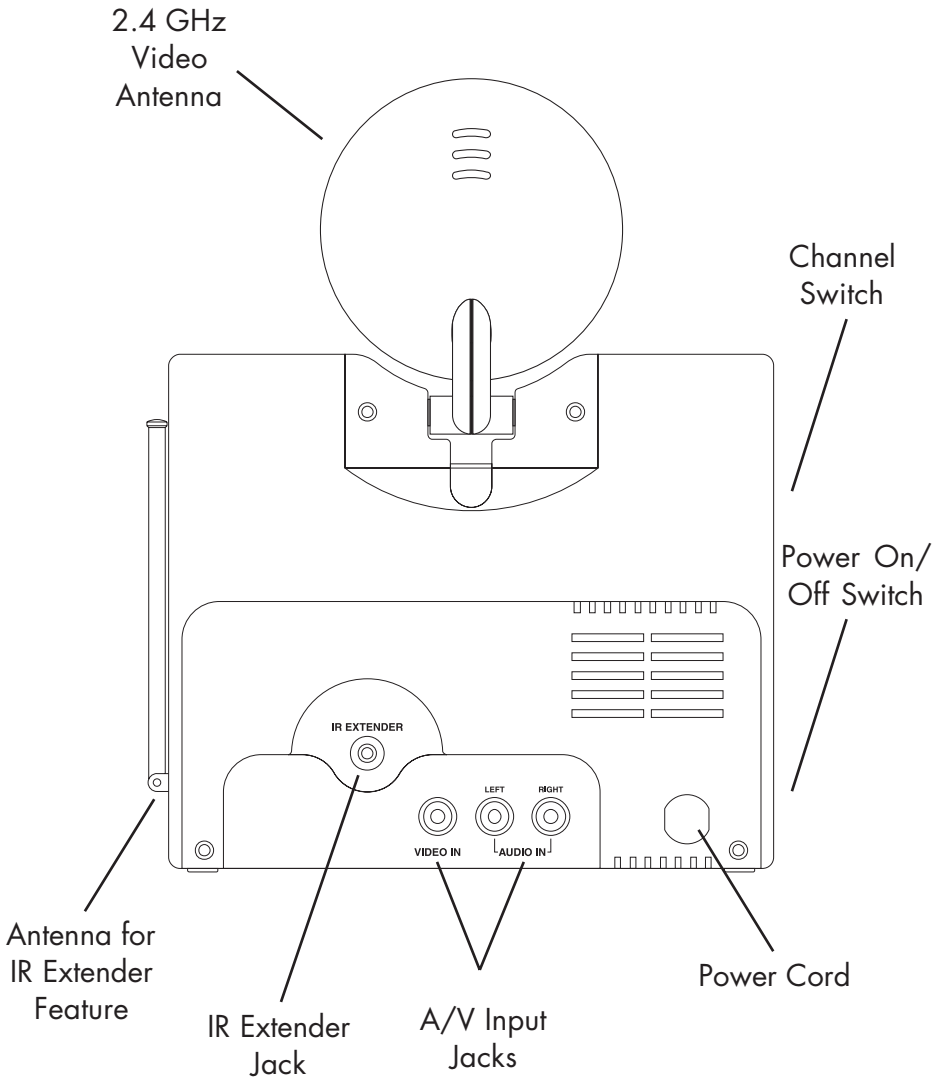
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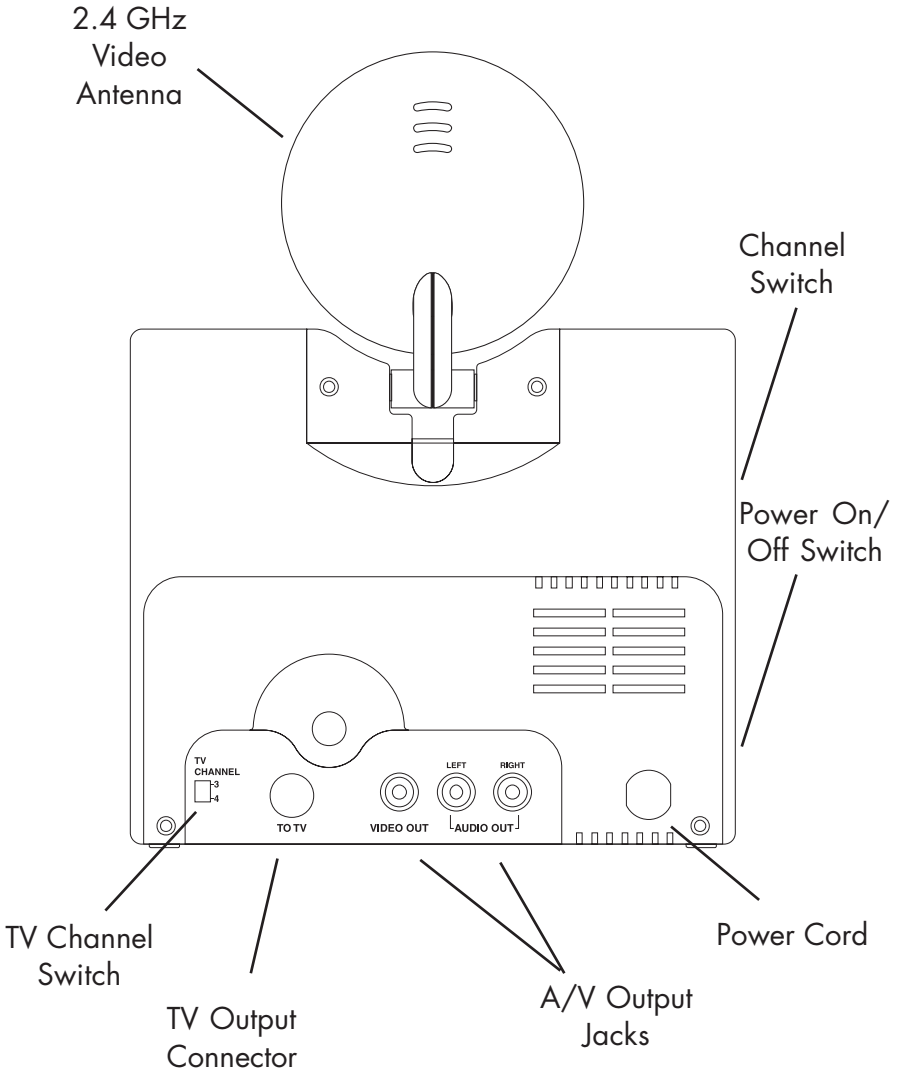
# CONTROLS AND CONNECTIONS

## VIDEO SENDER TRANSMITTER



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## VIDEO SENDER RECEIVER

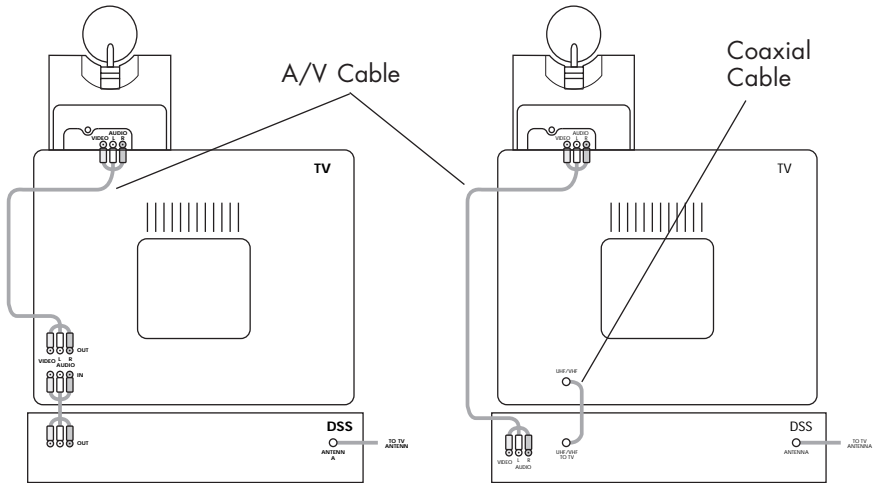


# CONNECTING UP

## HOOKING UP THE VIDEO SENDER TRANSMITTER

1. Connect one set of Audio/Video cables to the VIDEO and AUDIO jacks of your Video Sender Transmitter. Take care to match the colors of the plugs on the cable with the jacks on the Video Sender Transmitter.
2. Connect the other end of the cable to the Audio/Video OUT jacks on your TV. Take care to match the colors of the plugs on the cable with the jacks on the TV. If the jacks on the TV are colored differently, connect the yellow plug to the jack labelled VIDEO, the red plug to the jack labelled AUDIO RIGHT and the white plug to the jack labeled AUDIO LEFT.

**Note:** If your TV does not include Audio/Video OUT jacks, you will need to remake the connections as shown in diagram b) using the TV antenna (coaxial) connections to link up the DSS Receiver/Cable Box/VCR to your TV.



a) Connections for a TV with A/V OUT jacks.

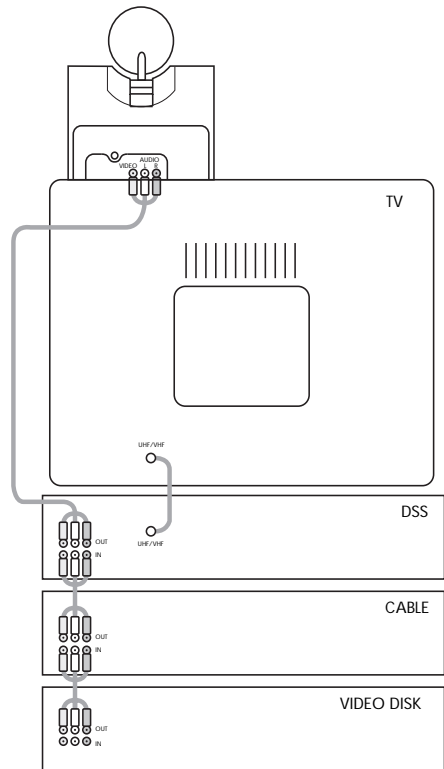
b) Connections for a TV without A/V OUT jacks.

3. Plug the Video Sender Transmitter into a convenient 120 volt wall outlet.
4. Position the Video Sender Transmitter in a convenient location such as on top of the TV and orient the antenna so that the flat side points in the direction of the room where you will be installing the Video Sender Receiver.

### ***If you have SEVERAL A/V COMPONENTS***

If you have two or more A/V components (e.g. DSS, VCR, Cable Box, Video Disk etc.) that you want to watch in another room, they will probably already be hooked up to the local TV in series (see the diagram to the right). To connect the Video Sender transmitter you just need to identify the last component in the chain and connect its LINE OUT jacks to the Video Sender Transmitter's LINE IN jacks.

If the last component in the chain does not have spare LINE OUT jacks, reconnect the local TV to the last component in the chain using coaxial cables to connect the VHF/UHF ports, then use the A/V connections for the Video Sender.

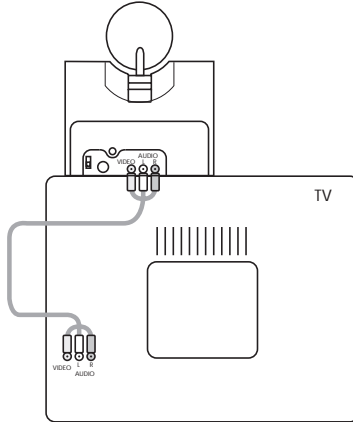


Fully extend the telescopic antenna if you intend to use the IR Extender feature (See page 15).

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## HOOKING UP THE VIDEO SENDER RECEIVER

1. Connect a set of Audio/Video cables the LINE OUT jacks of your Video Sender Receiver. Connect the other end to your TV.

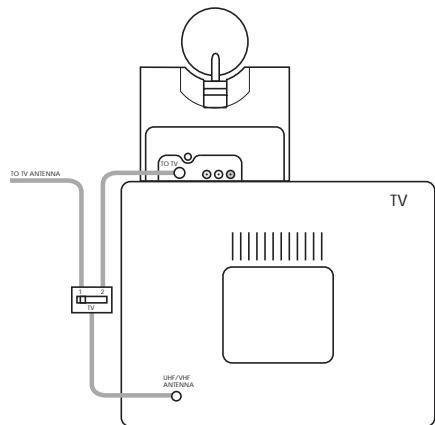


2. Plug the Video Sender Receiver into a 120 volt wall outlet.
3. Position the Video Sender Receiver in a convenient location such as on top of the TV and orient the antenna so that the flat side points in the direction of the room where you set up the Video Sender Transmitter.

### ***If YOUR TV DOES NOT HAVE A/V CONNECTORS***

You can use the supplied coaxial cable to connect the TV OUT socket on the Video Sender to the Antenna input on your TV. If you already have an antenna connected to your TV, you will need to use a TV antenna splitter.

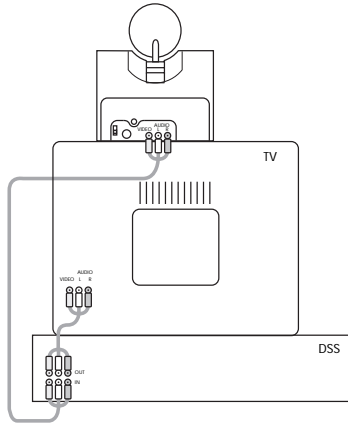
Set your TV and the TV Channel switch on the Video Sender to the same channel (3 or 4).



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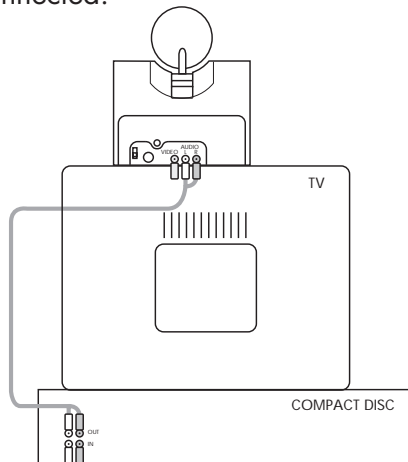
**IF YOUR SECOND TV RECEIVER IS ALREADY HOOKED UP TO A DSS RECEIVER OR OTHER A/V DEVICE**

If your DSS Receiver or other A/V component is connected to the TV using A/V cables, you can connect the Video Sender Receiver to the free LINE IN jacks on the component. If there are no LINE IN jacks, you will need to use a TV antenna splitter as described earlier.



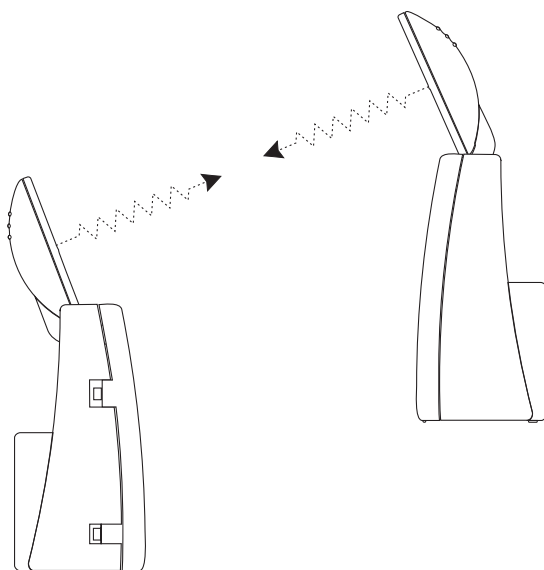
**IF YOU WANT TO USE YOUR VIDEO SENDER TO TRANSMIT FROM YOUR STEREO SYSTEM ONLY**

Just hook up the Video Sender using only the red and white jacks for the right and left channels of the audio signal. Leave the yellow (video) jacks unconnected.



## — FINE TUNING YOUR VIDEO SENDER —

The Wireless Video Sender usually works best with the flat faces of the antennas on the Transmitter and Receiver unit facing each other (i.e. in “Line of sight” - see diagram below). Sometimes, however, reflections and other effects in the home may affect the signal so that some adjustment of either the Transmitter or Receiver antenna may be necessary to get the best the signal.



### ***IF YOU ARE NOT GETTING ANY SIGNAL AT ALL***

Check that the CHANNEL slide switch (labeled 1 to 4) on both Video Sender units is set to the same number.

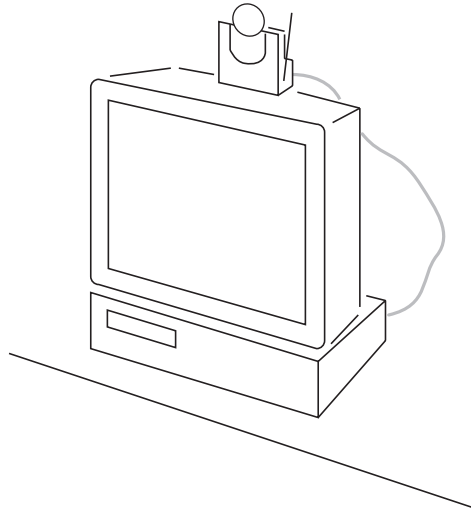
If you are using coaxial TV connections from the Video Sender Receiver, check that the TV is connected to it is tuned to the same channel as the TV Channel switch on the Video Sender (3 or 4).

### ***IF THE SIGNAL IS POOR, OR THERE IS INTERFERENCE***

Try changing the channel on both Video Sender units. Do this by adjusting the CHANNEL slide switch on the side of each Video Sender unit to any position from 1-4. Make sure both units are set to the same channel.

## — THE REMOTE EXTENDER FEATURE —

The Remote Extender feature allows the SuperRemote and certain other brands of universal remotes to control some models of RCA DSS Receivers from another room. For example, you can change channels on your Satellite Receiver while viewing in another room.



To use the Remote Extender Function you need to use the included Remote Extender Cable. Connect this cable to the IR jack on the Video Sender Transmitter. Connect the other end of the cable to the IR Control input on the RCA DSS Receiver.

Fully extend the antenna on the Video Sender Transmitter.

To operate the RCA DSS Satellite Receiver from another room, just press the SAT button on the SuperRemote, then the appropriate buttons to control the DSS receiver. The remote sends RF signals direct to the Video Sender Transmitter, even through walls. The Video Sender Transmitter passes these signals through the Remote Extender cable to the RCA DSS Satellite Receiver.

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# SETTING UP

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## THE SUPERREMOTE

### 6-IN-1 SUPERREMOTE

The 6-in-1 SuperRemote allows you to control practically everything electrical in your home. It combines IR technology that lets you control your TV, VCR, and Cable box; with RF technology that lets you control your DSS as well as lamps and appliances anywhere in your home.

### BUTTON DESCRIPTIONS

**INDICATOR LIGHT** - The indicator light flashes when the remote is operating.

**POWER** - Works in the same way as your original remote. Also turns All Lights On in X-10 mode.

**SET UP** - Used for programming the remote.

**BACKLIGHTING** - Lights up the keyboard when pressed, then times out after a few seconds. Stays on as long as you keep pressing buttons.

**X-10** - Lets you control X-10 modules to operate lamps and appliances around the home. Requires transceiver (sold separately).

**TV, VCR, CBL, AUX1, AUX2, SAT** - Used to select the device to control. SAT includes DSS receivers.

**0-9** - Used as your original remote and to enter device codes.

**A-B** - Selects TV/VCR when in VCR mode, input source when in TV mode, A.B in cable mode, and TV/DSS in SAT mode.

**ENTER** - Used when searching for codes, setting SLEEP timers, changing Housecodes, etc.

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**LAST** - Selects the last channel viewed on your TV, VCR, Cable Box or Satellite Receiver.

**CHANNEL UP/DOWN**- Works like your original remote. Also used to switch X-10 modules on and off.

**MUTE** - Works the same as your original remote. Also turns off all your X-10 modules when in X-10 mode.

**VOLUME UP/DOWN**- Works like your original remote. Also used to brighten and dim lamps connected to X-10 Modules.

**TIMER** - Used to set the Sleep Timer to automatically switch off the TV and/or X-10 modules after a preset time.

**DISP** - Used to access on-screen information.

**PLAY, REW, FF, STOP** - Work the same as on your original remote.

**SELECT** - Used for menu selections on DSS receivers.

**GUIDE** - Displays the menu guide on DSS receivers.

**REC** - Record button. Works the same as your original remote. You must press the REC button twice to begin recording.

**PAUSE** - Works the same as your original remote. Also displays the main menu for DSS receivers when in SAT mode.

## INSTALLING BATTERIES

1. Push the tab and lift off the battery cover.



2. Fit four AAA alkaline batteries, taking care to match the + and - marks in the battery compartment.



## SETTING UP FOR TV, VCR, CABLE BOX AND SATELLITE RECEIVER

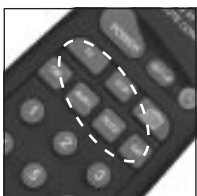
1. Turn on the device you want to control (TV, VCR, cable box, satellite receiver etc.).



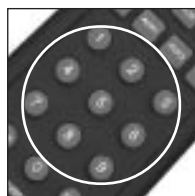
2. Press and hold SETUP until the LED indicator lights steadily. Release the SETUP button.



3. Press and release the mode button that matches the device you want to control. The LED blinks once. Use AUX for CD equipment.



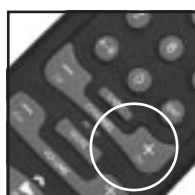
4. Enter the 3 digit Code from the Library Code Tables. The LED turns off after the last digit entered.



5. Point the remote at the device and press the POWER button. Your device should turn off.



6. Turn your device on and press CHANNEL+. If the device responds, setup is complete.



### Notes:

**For CD players** use the AUX buttons. For **Laser Disks** use the VCR button.

**If your TV/VCR/Cable Box/Satellite Receiver does not respond**, try the other codes for your brand. If it still doesn't respond, try the Code Search method on page 34.

**If the LED blinked rapidly when you entered the code**, you may have entered an invalid code. Recheck the code in the code list and try again.

**If some buttons do not operate your equipment**, try one of the other codes for your brand.

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## TV CODES

ABEX .....	18 5
ACME .....	003
ADA .....	016
ADC .....	012, 096
ADMIRAL .....	014, 186
ADVENTURA .....	187
AIKO .....	029
ALLERON .....	059
AMTRON .....	051
AKAI .....	015
AMSTRAD .....	202
ANAM NATIONAL .....	016, 051, 055, 205, 206, 207
AOC .....	017, 018, 020, 022, 188, 189, 208
AUDIOVOX .....	051
.....	.....
BELCOR .....	017
BELL & HOWELL .....	014, 062, 096
BRADFORD .....	051
BROKWOOD .....	017
.....	.....
CANDLE .....	017, 021, 022, 187
CAPEHART .....	188
CELEBRITY .....	015
CENTURION .....	022
CETRONIC .....	055
CITIZEN .....	017, 021, 022, 029, 051, 055, 084, 118, 184, 187, 190
CLAIRTONE .....	189
CLASSIC .....	055
COLORTYME .....	017, 022, 023, 213
CONCERTO .....	017, 022
CONTEC/CONY .....	024, 025, 026, 027, 051, 055, 189
CRAIG .....	051, 055
CROWN .....	051, 055, 184
CURTIS MATHES .....	013, 017, 022, 028, 062, 084, 118, 184
CXC .....	051, 055
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DAEWOO .....	017, 018, 022, 029, 030, 031, 055, 098, 139, 140, 184
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DUMONT .....	017, 164
DYNASTY .....	055

DYNATECH .....	191
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.....	
RADIO SHACK/REALISTIC ..	013, 017, 022, 024, 025, 051, 054, 055, 062, 108, 184, 185
RCA .....	013, 016, 017, 018, 020, 022, 109, 111, 112
.....	113, 114, 115, 116, 142, 192, 194, 200, 201
RHAPSODY .....	189
RUNCO .....	164
.....	
SAMPO .....	017, 022, 184, 185, 188
SAMSUNG .....	017, 018, 022, 024, 025, 028, 084, 117, 118, 119, 184, 185, 214, 217
SAMSUX .....	184
SANYO .....	017, 062, 063, 093, 120, 121, 182, 193
SCOTCH .....	022
SCOTT .....	017, 022, 025, 037, 048, 051, 055, 059
SEARS .....	013, 017, 022, 026, 059, 062, 063, 064
.....	079, 084, 118, 122, 123, 193, 194, 202, 210
SHARP .....	017, 022, 025, 108, 124, 125
.....	126, 127, 135, 184, 186
SHOGUN .....	017
SIGNATURE .....	014, 096, 128
SIMPSON .....	021
SONIC .....	189
SONY .....	015, 019
SOUNDESIGN .....	017, 021, 022, 051, 055, 059
SQUAREVIEW .....	202
SSS .....	017, 051, 055
STARLITE .....	051
SUPRE-MACY .....	187
SUPREME .....	015
SYLVANIA .	017, 021, 022, 075, 081, 082, 087, 088, 089, 090, 101, 129, 174, 196, 197
SYMPHONIC .....	046, 051, 202
.....	
TANDY .....	186
TATUNG .....	016, 191
TECHNICS .....	067
TECHWOOD .....	017, 022, 067

TEKNIKA .....	017, 018, 021, 022, 025, 026, 029, 051, 055
.....	059, 084, 089, 095, 096, 118, 183, 184, 187
TELECAPTION .....	130
TELERENT .....	096
TERA .....	199
TMK .....	017, 022
TOSHIBA .....	062, 084, 102, 118, 122, 130, 131, 173, 214
TOTEVISION .....	184
.....	
UNIVERSAL .....	065, 100
.....	
VICTOR .....	079, 195
VIDTECH .....	017, 018, 022
VIKING .....	187
.....	
WARDS .....	013, 014, 017, 018, 022, 037, 046, 059, 065, 075, 081
.....	082, 087, 088, 089, 096, 100, 101, 108, 132, 133, 197
.....	
YAMAHA .....	017, 018, 022
YUPITERU .....	055
.....	
ZENITH .....	096, 134, 164, 165, 166, 167

## VCR CODES

ADMIRAL .....	014
ADVENTURA .....	039
AIKO .....	040
AIWA .....	015, 039
AKAI .....	016, 017, 018, 019, 020, 021, 124, 125, 126
AMERICAN HIGH .....	034
ASHA .....	026
AUDIO DYNAMICS .....	022, 023
AUDIOVOX .....	027
.....	
BELL & HOWELL .....	024
BEAUMARK .....	026
BROKSONIC .....	025, 038
.....	
CALIX .....	027
CANDLE .....	026, 027, 028, 029, 030, 031, 032
CANON .....	034, 035, 127
CAPEHART .....	033, 123
CARVER .....	075

CCE .....	040, 074
CITIZEN .....	026, 027, 028, 029, 030, 031, 032, 040
COLORTYME .....	022
COLT .....	074
CRAIG .....	026, 027, 036, 074
CURTIS-MATHES .....	013, 015, 022, 026, 029, 031, 034, 035
CYBERNEX .....	026
DAEWOO .....	028, 030, 032, 038, 039, 040, 041, 123, 143
DAYTRON .....	123
DBX .....	022, 023
DIMENSIA .....	013
DYNATECH .....	015, 039
ELECTROHOME .....	027, 042
ELECTROPHONIC .....	027
EMERSON .....	015, 019, 025, 027, 028, 034, 037, 038, 039, 042, 043
.....	044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054
.....	055, 056, 057, 058, 059, 060, 078, 118, 126, 129, 130
FISHER .....	024, 036, 061, 062, 063, 064, 065, 131
FUJI .....	034, 132
FUNAI .....	015, 039
GARRARD .....	039
GE .....	013, 026, 034, 035, 066, 128, 133
GOLDSTAR .....	022, 027, 031, 067, 134
GRADIENTE .....	039
HARLEY DAVIDSON .....	039
HARMAN KARDON .....	022, 081
HARWOOD .....	074
HEADQUARTER .....	024
HITACHI .....	015, 068, 069, 070, 120, 124, 133, 135
HI-Q .....	036
.....	
INSTANT REPLAY .....	034
.....	
JCL .....	034
JC PENNEY .....	022, 023, 024, 026, 027, 034, 035, 068, 069, 071, 072, 073, 120, 131
JENSEN .....	124
JVC .....	022, 023, 024, 031, 071, 124, 136
KENWOOD .....	022, 023, 024, 029, 031, 071, 124, 136
KLH .....	074, 144
KODAK .....	027, 034

LLOYD .....	015, 039
LOGIK .....	074
LXI .....	027
.....	
MAGNAVOX .....	034, 035, 075, 076, 117, 121, 137
MAGNIN .....	026
MARANTZ .....	022, 023, 024, 029, 031, 034, 071, 075, 077
MARTA .....	027
MASUSHITA .....	034
MEI .....	034
MEMOREX .....	014, 015, 024, 026, 027, 034, 036, 039, 056, 117
MGA .....	042, 078, 126
MGN TECHNOLOGY .....	026
MIDLAND .....	066
MINOLTA .....	068, 069, 120
MITSUBISHI .....	042, 068, 069, 078, 079, 080, 081, 082
.....	083, 084, 085, 086, 087, 119, 126, 136
MONTGOMERY WARD .....	014, 088
MOTOROLA .....	014, 034
MTC .....	015, 026, 039
MULTITECH .....	015, 026, 039, 066, 074
.....	
NEC .....	022, 023, 024, 029, 031, 071, 077, 089, 090, 091, 092, 124, 136
NIKKO .....	027
NOBLEX .....	026
.....	
OLYMPUS .....	034
OPTIMUS .....	014, 027
OPTONICA .....	109, 147
.....	
PANASONIC .....	034, 035, 122, 138, 139, 140
PENTAX .....	029, 068, 069, 029, 120, 133
PENTEX RESEARCH .....	031
PHILCO .....	034, 035, 075, 076
PHILIPS .....	034, 075, 109, 137
PILOT .....	027
PIONEER .....	023, 068, 093, 094, 136
PORTLAND .....	029, 030, 032, 123
PROSCAN .....	013
PROTEC .....	074
PULSAR .....	117
.....	
QUARTER .....	024

QUARTZ .....	024
QUASAR .....	034, 035, 138
RCA .....	013, 016, 026, 034, 068, 069, 095, 096, 097, 098
.....	099, 100, 101, 102, 103, 104, 120, 128, 133, 138
RADIOSHACK/REALISTIC .....	014, 015, 024, 026, 027, 034, 035
.....	036, 039, 042, 062, 063, 109
RADIX .....	027
RANDEX .....	027
RICOH .....	141
RUNCO .....	117
.....	
SAMSUNG .....	018, 026, 028, 046, 066, 125
SANKY .....	014, 117
SANSUI .....	023, 105, 124, 136
SANYO .....	024, 026, 036
SCOTT .....	025, 028, 038, 045, 051, 078, 106, 129
SEARS .....	024, 027, 034, 036, 061, 062, 063, 064, 068, 069, 120, 131
SHARP .....	014, 015, 030, 042, 107, 108, 109
SHINTOM .....	017, 069, 074, 111, 145
SHOGUN .....	026
SIGNATURE .....	015
SINGER .....	034, 074
SONY .....	017, 111, 112, 132, 141
STS .....	034, 120
SYLVANIA .....	015, 034, 035, 039, 075, 076, 078, 137
SYMPHONIC .....	015, 039
.....	
TANDY .....	015, 024
TASHIKO .....	027
TATUNG .....	071, 124
TEAC .....	015, 039, 071, 098, 124
TECHNICS .....	034, 122
TEKNIKA .....	015, 027, 034, 113, 142, 039
TOSHIBA .....	028, 062, 064, 068, 078, 106, 129
TOTEVISION .....	026, 027
TMK .....	026, 037, 060
.....	
UNITECH .....	026
.....	
VECTOR RESEARCH .....	022, 023, 028, 029
VICTOR .....	023
VIDEO CONCEPTS .....	022, 023, 028, 029, 126
VIDEOSONIC .....	026

WARDS .....	014, 015, 026, 027, 028, 034, 036, 039, 042
.....	068, 069, 074, 109, 114, 115, 116, 120, 129
XR-1000 .....	034, 039, 074
YAMAHA .....	022, 023, 024, 031, 071, 124
ZENITH .....	017, 111, 117, 132, 141

## CABLE CODES

ABC .....	014, 015, 016, 017, 018, 019, 020
ANTRONIX .....	021, 022
ARCHER .....	021, 022, 023, 024
.....	
CABLETENNA .....	021
CABLEVIEW .....	021
CENTURY .....	024
CITIZEN .....	024
COLOUR VOICE .....	025, 026
COMTRONICS .....	027, 028
CONTEC .....	029
.....	
EASTERN .....	030
.....	
GARRARD .....	024
GC ELECTRONICS .....	022
GEMINI .....	031, 032
GENERAL INSTRUMENT .....	016
.....	
HAMLIN .....	033, 034, 035, 048
HITACHI .....	016
HYTEX .....	015
.....	
JASCO .....	024
JERROLD .....	014, 016, 018, 020, 031, 036, 037, 062, 063
.....	
MAGNAVOX .....	038
MEMOREX .....	039
MOVIE TIME .....	015, 040, 041
.....	
NSC .....	015, 040
.....	
OAK .....	015, 029, 042
.....	
PANASONIC .....	013, 061, 064
PARAGON .....	039

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PHILIPS .....	024, 025, 026, 032, 038, 043, 044, 045
PIONEER .....	046, 047
PULSAR .....	039
.....	
RADIO SHACK .....	058
RCA .....	013, 060
REALISTIC .....	022
REGAL .....	035, 048
REGENCY .....	030
REMBRANDT .....	016
RUNCO .....	039
.....	
SAMSUNG .....	027, 047
SCIENTIFIC ATLANTA .....	019, 049, 050, 051, 065, 066, 067
SIGNAL .....	027, 031
SIGNATURE .....	016
SL MARX .....	027
SPRUCER .....	013
STANDARD COMPONENTS .....	052
STARCOM .....	014, 020, 031
STARGATE .....	027, 031
STARQUEST .....	031
.....	
TANDY .....	053
TELEVIEW .....	027
TEXSCAN .....	052
TOCOM .....	017, 036, 054
TOSHIBA .....	039
TUSA .....	031
TV86 .....	040
.....	
UNIKA .....	021, 022, 024
UNITED ARTISTS .....	015
UNITED CABLE .....	014
UNIVERSAL .....	021, 022, 023, 024, 055
.....	
VIDEOWAY .....	057
VIEWSTAR .....	028, 038, 040, 053, 056
.....	
ZENITH .....	039
.....	

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## SATELLITE CODES

AMPLICA .....	028
BIRDVIEW .....	029
CHANNEL MASTER .....	030, 031, 032
CHAPPARAL .....	013, 014, 033, 034
CHEYENNE .....	014
DRAKE .....	015, 016, 037, 038, 039, 040
DX ANTENNA .....	035, 036
ECHOSTAR .....	041, 042, 043
FUJITSU .....	044, 045
GENERAL INSTRUMENTS .....	017, 018, 019, 046, 047, 048
JANEIL .....	049
JEROLD .....	050
KENWOOD .....	051
LUXOR .....	052
MACOM STATE .....	053
NORSTAT .....	054
REALISTIC .....	020, 056, 057
SCIENTIFIC ATLANTA .....	060
SIERRA I, II, III .....	014
STAR TRAK .....	061
STS .....	021, 022, 023, 024, 058, 059
SUPER GUIDE .....	062
TOSHIBA .....	025, 063
UNIDEN .....	026, 064
VIDEO CIPHER II .....	027

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## LASER DISC CODES

PIONEER .....	093
PROSCAN .....	146
RCA .....	146

## DSS CODES

ECHOSPHERE .....	071
EHOSTAR .....	071
.....	
DISH NETWORK .....	071
.....	
HUGHES SATELLITE .....	075
.....	
PANASONIC .....	069, 072
PRIMESTAR .....	070
.....	
RCA .....	065
.....	
SONY .....	066
STAR SIGHT CABLE SERVICES .....	073
.....	
TOSHIBA .....	067, 068, 074

## CD CODES

ADC .....	013
ADCOM .....	014, 067
AIWA .....	015, 016
AKAI .....	068, 090
AUDIO ALCHEMY .....	017
AUDIO TECHNICA .....	018
.....	
BSR .....	017
.....	
CALIFORNIA AUDIO LABS .....	069
CAPETRONIC .....	022
CARRERA .....	017
CARVER .....	019, 020, 021
CASIO .....	070
CURTIS MATHES .....	070
.....	
DENON .....	023, 024
.....	

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EMERSON .....	014, 025, 026
FISHER .....	020, 027, 028, 029, 030, 071
GE .....	078
GENEXXA .....	025, 026, 031, 072
GOLDSTAR .....	032, 073
HARMON KARDON .....	033
HITACHI .....	031
INKEL .....	034
JC PENNEY .....	043, 070
JVC .....	035
KENWOOD .....	027, 036, 037, 038, 080, 081
KRELL .....	019
KYOCERA .....	013
LUXMAN .....	039, 040, 082, 083, 091
LXI .....	025, 070
MAGNAVOX .....	019, 084
MARANTZ .....	019, 041, 042, 085
MCS .....	043, 070
MGA .....	044
MISSION .....	019
MITSUBISHI .....	044, 045
NAD .....	074, 092
NAKAMICHI .....	046, 047
NEC .....	043
NIKKO .....	018, 026, 029
NSM .....	019
ONKYO .....	048, 049, 075
OPTIMUS .....	017, 020, 021, 025, 031, 037, 050, 051, 052, 053
PANASONIC .....	069, 086, 093
PHILIPS .....	019, 084
PIONEER .....	031, 054, 055, 072

PROTON .....	019
.....	
QUASAR .....	069
.....	
RCA .....	014, 020, 025, 056, 076
RCA Digital Video Disc .....	096
REALISTIC .....	014, 020, 022, 025, 026, 031, 042, 050, 052
ROTEL .....	019
.....	
SAE .....	019
SAMSUNG .....	094
SANSUI .....	019, 025, 057, 076, 087
SANYO .....	020, 058, 071, 088, 095
SCOTT .....	014, 025, 026
SEARS .....	025, 037, 042, 070
SHARP .....	037, 042
SHERWOOD .....	034, 042, 051, 059
SHURE .....	043
SONY .....	060, 061
STS .....	013
SYLVANIA .....	019
SYMPHONIC .....	062
.....	
TEAC .....	029, 042, 052, 062, 063, 064
TECHNICS .....	069, 086, 089
THETA DIGITAL .....	084
TOSHIBA .....	074
.....	
VECTOR RESEARCH .....	017, 032
VICTOR .....	035
.....	
YAMAHA .....	018, 065, 066, 077

## HOME AUTOMATION CODES

X-10 HOME AUTOMATION (RF) .....	013
X-10 HOME AUTOMATION (IR543) .....	014
GE HOMEMINDER .....	015

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## USING AUX TO CONTROL A SECOND TV, VCR, CABLE BOX OR SATELLITE RECEIVER

The AUX1 and AUX2 buttons are normally used to control a CD player, but they can also be configured to control a second TV, VCR, cable box or satellite receiver.

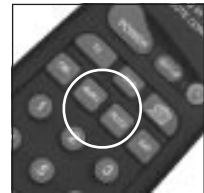
1. Turn on the equipment you want to control.



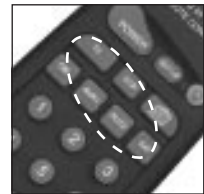
2. Press and hold SETUP until the LED indicator lights steadily. Release Setup button.



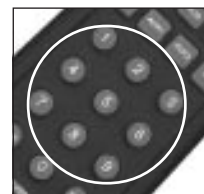
3. Press the AUX1 or AUX2 button.



4. Press and release the mode button that matches the equipment you want to control. The LED blinks once.



5. Enter the 3 digit Code from the Library Code Tables. The LED turns off after the last digit entered.



6. Point the remote at your CD player and press the POWER button. Your CD player should turn off.



7. Turn your CD player on and press CHANNEL +. If it responds, setup is complete.



### Notes:

*If your CD Player does not respond, try the other codes for your brand. If it still doesn't respond, try the Code Search method below.*

*If the LED blinked rapidly when you entered the code, you may have entered an invalid code. Recheck the code in the code list and try again.*

## SEARCHING FOR CODES

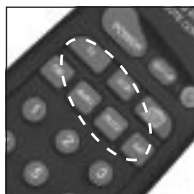
1. Turn on the device you want to control.



2. Press and hold SETUP until the LED indicator lights steadily. Release Setup button.



3. Press the mode button (TV, VCR, etc.) that matches the equipment code you want to search for. The LED blinks once. Note: To search for a code stored under Aux, press Aux, release Aux, then press TV, VCR, etc. The LED blinks once.



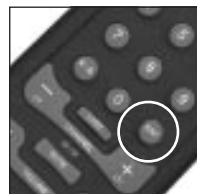
- 
4. Press CHANNEL + repeatedly\* until the device to be controlled changes channel.



If you go past the code accidentally, just press LAST repeatedly until the channel changes again.



5. Press and release the ENTER button to complete the setup.



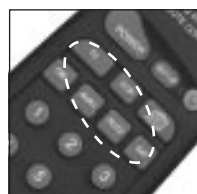
**\*Note:** You may have to press CHANNEL+ many times (50+). If the device does not have a Channel Up function, use the PLAY button (VCR only) or the POWER button.

## IDENTIFYING CODES FOUND USING THE SEARCH PROCEDURE

1. Press and hold the SETUP until the LED indicator lights steadily. Release Setup button.



2. Press the mode button that matches the equipment you want to identify (TV, VCR, etc.). The LED blinks once. Note: To identify a code stored under Aux, press Aux, release Aux, then press TV, VCR, etc. The LED blinks once.



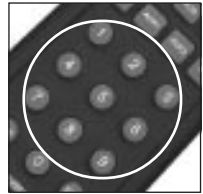
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## IDENTIFYING CODES FOUND USING THE SEARCH PROCEDURE (CONT.)

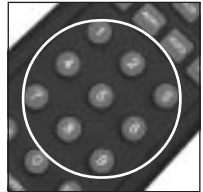
3. Press and release SETUP. The LED blinks once.



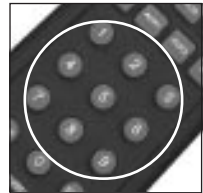
4. To find the first digit, press each number button from 0 to 9 until the LED blinks. The number that caused the LED to blink is the first digit of the code.



5. Press each number button from 0 to 9 again as above to find the second digit.



6. Press each number button in turn to find the third digit. When the third digit has been found, the LED will go out.

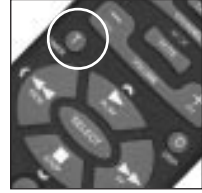


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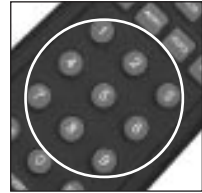
## SETTING THE SLEEP TIMER

The Sleep Timer automatically turns off the TV after the time you set. Press the TV\* button, then follow the instructions below to set the Sleep Timer:

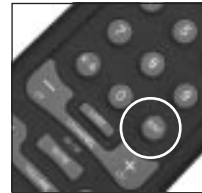
1. Press and hold TIMER until the LED indicator lights steadily. Release TIMER button.



2. Use the number buttons to enter the sleep time required (1 to 99 minutes).



3. Press ENTER to confirm the setting.



**Note:** Make sure you leave the remote pointing at the TV to ensure it turns off the TV at the time you set.

*To cancel a Timer: Press TV, then press Power; or press TV then press the Timer button (blinks once) and hold the Timer button until the LED blinks again.*

*\* The Sleep Timer will only work for TVs stored directly under the TV button. It will not work for TVs stored under the Aux button.*

# X-10 HOME AUTOMATION

## CONTROLLERS AND MODULES

The first thing you need to understand is that there are two different devices you need to control your home; Controllers and Modules. Any light or appliance that you want to control is plugged into a Module and that Module is then plugged into a standard AC outlet.

Modules receive commands from Controllers. Examples include the Lamp Module and the Appliance Module. The Transceiver Module is another example of an Appliance Module (although it also doubles as a controller as described below).

Controllers are also plugged into standard wall outlets and send commands to Modules over your existing electrical wiring in your house without affecting your electricity in any way.

The Transceiver Module\* works as a controller when it is used with a remote control such as the one included with this kit. When the Transceiver Module receives a command from a remote it sends digital signals over your existing house wiring to a Module which receives the signals and executes the command.

The remote uses radio frequency (RF) signals to send commands to the Transceiver module. RF signals can go right through walls, so you can use the remote to control lights or appliances from anywhere in your home.

\*Note: If you own an X-10 Security System, its Base Receiver acts as a Transceiver so you don't need to purchase an additional Transceiver to use your SuperRemote to control your lights and appliances.

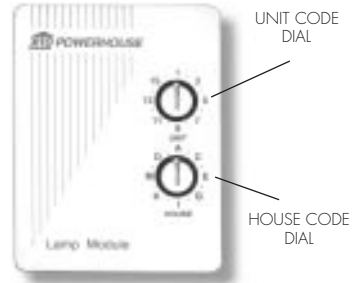


## HOUSE CODES AND UNIT CODES

Each Module has a specific address made up of a House Code (red dial on the face of the Module) and a Unit Code (black dial on the face of the Module).

The Controller first sends an address and then a command over the AC wiring. Only the Module with a matching address will execute the command. If more than one Module has the same address, both Modules will execute the command.

Addresses are set on the Module by turning the two dials on the front of the Module to the desired letter and number (using a small screwdriver or a coin). The House Code is selected from the letters A through P, and the Unit Code is selected from the numbers 1 through 16.



## INSTALLING X-10 COMPONENTS

### TRANSCIVER MODULE

The Transceiver Module (sold separately) receives radio frequency (RF) commands from X-10 remotes to operate a lamp or appliance plugged into it. The Transceiver Module also passes on commands over your house wiring to control other X-10 modules. Note that unlike the Lamp Module you cannot dim and brighten a lamp connected to the Transceiver Module.

You should locate the Transceiver Module centrally in the home for maximum range when controlled by a remote.

1. Set the House Code to 'A.'



2. Plug a lamp or appliance into the Transceiver Module.



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3. Plug the Transceiver Module into a convenient AC outlet. Fully extend the antenna. Note: The transceiver responds to Unit Codes 1 and 9.



## LAMP MODULE

The Lamp Module (sold separately) may be used to control any incandescent lamp rated up to 300W. It is not suitable for other types of lamp such as fluorescent or energy saving lamps, or lamps which include a dimmer control.

**Caution:** Do not connect an appliance such as a coffee pot or heater to the Lamp Module. It may damage the module and/or the appliance and could cause a fire hazard.

1. Set the House Code to 'A' and the Unit Code to '2.'



2. Plug a lamp into the Lamp Module.



3. Plug the Lamp Module into a convenient AC outlet.



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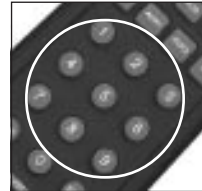
## CONTROLLING X-10 MODULES WITH THE SUPERREMOTE

If you have already installed the Transceiver Module, you can control it and other X-10 modules as follows:

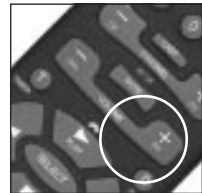
1. Press and release the X-10 button.



2. Use the number buttons to enter the Unit Code number of the chosen module. (You do not need to enter '0' first for a single digit number.)



3. Press the appropriate button for the function you require (see below).



### X-10 FUNCTIONS:

On:	CHANNEL +
Off:	CHANNEL -
Bright:	VOLUME +
Dim:	VOLUME -
All Lamps On:	POWER
All Modules Off:	MUTE

**Note:** You cannot dim or brighten an Appliance Module. If the module was off and you press Bright or Dim (VOLUME+ or VOLUME-) this will simply turn the module on.

**Tip:** After controlling X-10 Modules, press the TV button to return your remote to TV mode. If you forget that the remote is in X-10 mode, next time you press Mute, say when the phone rings, instead of muting your TV, you will turn off all your lights instead!

## To SET THE X-10 SLEEP TIMER

The X-10 Sleep Timer switches off the chosen modules after the preset time.

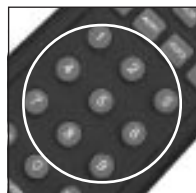
1. Press and release the X-10 button. Note: The X-10 Sleep Timer will only work under the X-10 button. It will not work for X-10 codes stored under the Aux button.



2. Press and hold TIMER until the LED indicator lights steadily. Release the TIMER button.



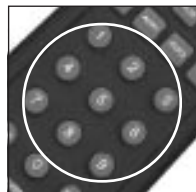
3. Use the number buttons to enter the module Unit Code for the module to be turned off (or on).



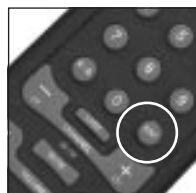
4. Press the desired function button (e.g. CHANNEL - to turn the module off after the preset time, or CHANNEL + to turn the module on after a preset time).



5. Using the number buttons, enter the sleep time required (1 to 99 minutes).



6. Press ENTER to confirm the setting. Note: To cancel a Timer: Press X-10, then press the Timer button (blinks once) and hold the Timer button until the LED blinks again.



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## CHANGING THE X-10 HOUSE CODE:

The SuperRemote defaults to House Code A, and in most cases you will not need to change this, unless you are experiencing interference from a neighboring X-10 system.

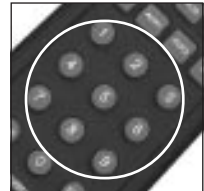
1. Press and release the X-10 button.



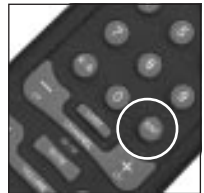
2. Press and hold SETUP until the LED indicator lights steadily. Release Setup button.



3. Use the number buttons to enter the number equivalent to the chosen House Code (1=A, 2=B ..16=P).



4. Press the ENTER button to confirm the House Code. The LED turns off.



**Note:** The House Code you choose must match the House Code on the Transceiver and Modules you are using it with.

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## USING AN IR MINI CONTROLLER (IR543)

If you already own an IR Mini Controller (Model IR543), you will need to change the X-10 Home Automation code in the remote to use it. The code for standard X-10 RF Home Automation is 013. This code is used for transmitting RF commands to an X-10 Transceiver. The code to control the IR Mini Controller is 014. To change the code:

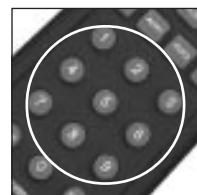
1. Press and hold SETUP until the LED indicator lights steadily. Release the SETUP button.



2. Press and release the X-10 button.



3. Enter 014 to control an IR Mini Controller, or 013 for standard X-10 RF control. The LED turns off after the last digit entered.



**Note:** In most cases, you will not need to use an IR Mini Controller to receive commands from the SuperRemote - the Transceiver Module (or any X-10 Security System) does this for you and has the added advantage of working through walls. You cannot control the IR Mini Controller and the Transceiver Module at the same time from the X-10 button, but you can program an IR Mini Controller under the Aux button.

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## EXPANDING YOUR SYSTEM

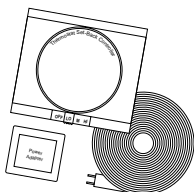
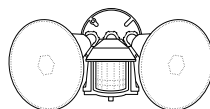
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The modules illustrated below represent just a few of the wide range of X-10 compatible modules you can choose from to expand your Home Automation system. They are available from electrical outlets, department stores, and mail order catalogs.

X-10 Home Automation products also integrate with X-10 security systems, so you can use the SuperRemote to control the same lights that flash when the security system is tripped.

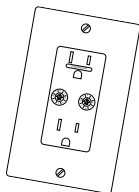
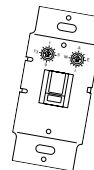
Check out our Web Site at: [HTTP://WWW.X10.COM](http://www.x10.com)  
for more information on these and many other X-10 products.

The **Dual Floodlight Motion Detector, PR511** turns on at dusk and/or when it detects movement, and sends X-10 signals to control other modules, or trigger ActiveHome macros.



The **Thermostat Setback Controller, TH2807** mounts below your thermostat to reduce the room temperature at night or at the times you set to save energy. No wiring needed to your existing thermostat.

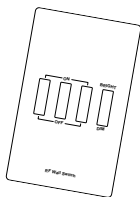
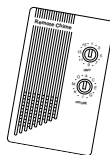
Replace your existing wall switches with the **Wall Switch Module, WS467**. Installs like a regular dimmer. On/Off and Bright/Dim functions. Other models available for 3-way and fluorescent lighting.



Replace existing AC wall outlets with the **Receptacle Module, SR227**. Has one 15A/1800W controlled outlet and one outlet which is always on.

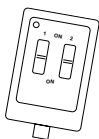
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Use a controller to trigger the **Remote Chime Module, SC546** to call Dad up for dinner, or warn people you're about to turn on the sprinklers.



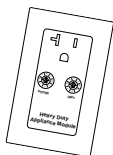
Fit a **Wireless Wall Switch, RW724** anywhere you need an extra switch - with no wires. Sends commands to the Transceiver Module just like a remote.

Use the isolated contacts on the **Universal Module, UM506** to control pool pumps, sprinklers, drapes and other low voltage equipment. Includes built in warning beeper.



Switch entrance or garage lights on from your car with the convenient **Keychain Remote, KC674**.

The **PowerFlash Interface, PF284** connects to dry contact or low voltage alarm terminals on your burglar alarm system and flashes X-10 controlled lights when it is triggered.



Plug in a **Heavy Duty Module, HD245** to control 220V appliances such as air conditioners and water heaters.

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# TROUBLESHOOTING

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## **The Transceiver Module doesn't respond to the remote:**

- Check the House Code on the Transceiver Module is set to 'A.' If you have changed the House Code on the SuperRemote (see page 43), check that it matches the House Code on the module.
- Press the ON/OFF button on the front of the module to confirm it operates the equipment connected to it.

## **The Transceiver Module works, but other modules don't respond:**

- Check that the module has the same House Code as the Transceiver Module.
- Try plugging the module into a different outlet.

## **The SuperRemote won't control your A/V equipment, or doesn't work at all:**

- Use manual controls or the original remote control to confirm the equipment is working properly.
- Be sure you pressed the device key for the device you want to control.
- Replace the Remote's batteries.
- Re-enter the code from the Code List.