



PUR08
8 IN 1
LEARNING REMOTE

OWNER'S MANUAL

— READ THIS FIRST! —

SAFETY CONSIDERATIONS

Remember to exercise good common sense when using your X-10 PRO home automation remote - especially when scheduling unattended devices. There can be some unexpected consequences if not used with care. For example, an empty coffee pot can be remotely turned on. If that should happen, your coffee pot could be damaged from overheating. If an electric heater is turned on by remote control while clothing is draped over it, a fire could result. DO NOT USE the system for the control of high power heating appliances such as portable heaters.

Caution: To reduce the risk of electric shock, do not disassemble any part of the Home Automation System. No user-serviceable parts are inside. If you spill liquid on any accessory unit, (modules, etc.) disconnect the unit from the AC outlet to prevent possible fire or shock hazard and consult authorized service personnel.

Powerline operated equipment or accessories connected to any of these units should bear the UL listing or CSA certification mark and should not have been modified in any way that might defeat their safety features.

Warning: To prevent electric shock hazard, do not expose any part of the Home Automation System to rain or moisture.

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 UNDESIRE 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 interface with respect to the radio/TV.
- Move the interface away from the radio/TV.
- Plug the interface 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 any of the components in this kit will void the user's authority to operate this equipment.

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INTRODUCTION

Congratulations on your purchase of the X-10 PRO Learning Remote.

Make your lights and appliances go to work for you....

The X-10 PRO Remote will control most or all of your video and audio equipment. But what really sets it apart from other remotes is that you can also control almost any light or appliance in your home - even in another room! And it's easy to install. Within minutes, you can be using your X-10 PRO Remote to dim the lights, start brewing a fresh pot of coffee and play your favorite movie!*

Here are just some of the things you can do with your X-10 PRO Remote...

- Control your entire audio/video and lighting setup for the ultimate Home Theater experience.
- Turn on lights at night to scare away intruders if you hear a noise.
- Start the coffee from your bedroom when you wake up.
- Turn on your electric blanket before the movie ends, so it's nice and warm when you go to bed.

Use this manual to become familiar with your X-10 PRO Remote....

This manual will explain how to set up your Remote to use it with your existing Audio/Video equipment.

Next it will show you how you can use it to set up and use an X-10 PRO Transceiver Module and Lamp Module (sold separately) to operate electrical devices in your home.

Finally, the manual will show how you can expand your system with some of the many additional X-10 PRO products you can purchase.

* Requires X-10 PRO modules, sold separately.

GETTING STARTED

Because we know that you are eager to get started, we've kept this introduction as short as possible, but it contains very valuable information, so you should read through it very carefully.

CONTROLLERS AND MODULES

The first thing you need to understand is that there are two different devices you need to control your house; 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 (sold separately). The Transceiver Module (also sold separately) is another example (although it also doubles as a controller as described later).

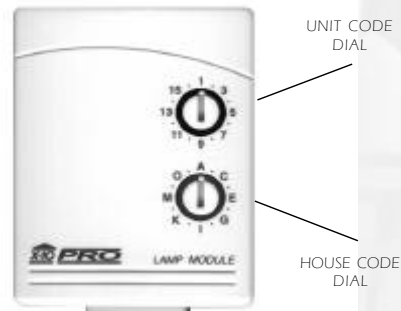
Controllers are plugged into standard wall outlets and send commands to Modules over your existing electrical wiring in your house without affecting your electricity in any way.

The Transceiver Module works as a controller when it is used with a remote control such as the Learning Remote. 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 remotes to control lights or appliances from anywhere in your home.



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 on the AC power lines. 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 THE COMPONENTS

TRANSCIVER MODULE

The Transceiver Module receives radio frequency (RF) commands from 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 the Learning Remote.

1. Set the House Code to 'A' .



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



3. Plug the Transceiver Module into a convenient AC outlet. Fully extend the antenna.



LAMP MODULE

The Lamp Module may be used to control any incandescent lamp rated up to 300W. It is not suitable for other types of lamps 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 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.



8-IN-1 LEARNING REMOTE

The 8-in-1 Learning Remote allows you to control practically everything electrical in your home. It combines IR technology that lets you control all your TV, VCR, Cable and Satellite equipment with X-10 RF technology that lets you control lamps and appliances anywhere in your home.

To find out more about configuring the Learning Remote to work with your audio/video equipment, see the section titled "Setting Up Your Remote."

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



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



SETTING UP YOUR REMOTE

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, when in X-10 mode.

SET UP

Used for programming the remote.

BACKLIGHT

Lights up the keys for a few seconds when pressed.

LEARN

Lets you learn codes from an existing remote, that might not be in the Learning Remote's library.

X-10

Lets you control X-10 PRO modules to operate lamps and appliances around the home.

TV, VCR, CBL, CD, AUX1, AUX2, SAT

Used to select the device to control. SAT includes DSS receivers.

SHIFT

Lets you learn another function under the same key.

0-9

Used as your original remote and to enter device codes.

LAST

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

CHANNEL

Works like your original remote. Also used to turn X-10 Pro modules on and off.

MUTE

Works the same as your original remote. Also turns All Modules Off, when in X-10 mode.

VOLUME

Works like your original remote. Also used to brighten and dim lamps connected to X-10 PRO Modules.

TIMER

Used to set the Sleep Timer to automatically switch off the TV or X-10 PRO Modules after a preset time.

L1, L2

Lets you learn additional keys from your original remote.

DISP

Used to access on-screen information.

PLAY, REW, FF, STOP

Work the same as on your original VCR remote.

SELECT

Used for menu selections on DSS satellite receivers.

GUIDE

Displays the main menu on DSS satellite receivers.

REC

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

PAUSE

Works the same as your original VCR remote.

CLEARING THE MEMORY

It is recommended that you clear the memory in the Learning Remote before you start programming it:

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



2. Press and release the **LEARN** key **twice**.



3. Press and release the **SETUP** key. The LED turns off after a few seconds.



You can also clear the memory for just a particular mode (TV, VCR, etc.).

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



2. Press and release the desired mode button (TV, VCR, etc.). The LED blinks once.



3. Press the **LEARN** key. The LED blinks once.

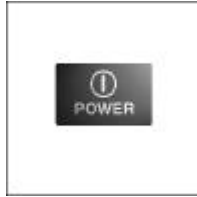


4. Press **SETUP**. The LED turns off.



SETTING UP FOR TV, VCR, CABLE, CD, AND SATELLITE RECEIVER

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



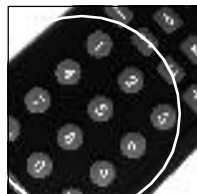
2. Press and hold SETUP until the LED indicator lights steadily. Release the SETUP button.



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



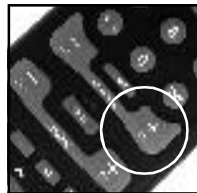
4. Enter the 3 digit Code from the Library Code Tables. The LED turns off after the last digit entered.



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



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



Notes:

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 26.

If the LED blinks rapidly when you enter 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.

TV CODES

ABEX	185
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
.....
DAEWOO	017,018,022,029,030
.....	031,055,098,139,140,184
DAYTRON	017,022,184
DIMENSIA	013
DUMONT	017,164
DYNASTY	055
DYNATECH	191
.....
ELECTROBAND	015,189
ELECTROHOME	016,017,022,034,035
EMERSON	017,022,025,027,036,037,038,039
.....	040,043,044,045,046,047,048,049,050
.....	051,052,053,054,055,056,057,058,059
.....	060,062,136,137,176,184,189,190,192,210
ENVISION	017,022
.....
FISHER	062,063,064,193
FUJITSO	059
FUNAI	051,055,059
FUTURETEC	051,055
.....

GE 013,016,017,022,035,065,067,068
 100,176,177,178,179,180,181,194
 GIBRALTER 017,164
 GOLDSTAR 017,018,022,025,069
 070,071,168,169,184,185
 GRUNDY 051,059,184

 HALLMARK 017,022
 HARVARD 051
 HITACHI 017,022,024,025,026,072,073
 074,100,150,151,152,153,154,155
 156,157,158,159,160,161,163,192,211,212

 IMA 051
 INFINITY 075

 JANEIL 187
 JBL 075
 JCB 015
 JC PENNY 013,017,018,021,022,035,065
 067,071,076,077,084,100,118
 141,184,185,194,214
 JENSEN 017,022
 JC 024,025,026,067,073,078
 079,080,102,171,172,195

 KAWASHO 015,017,022
 KAYPANI 188
 KEC 055
 KENWOOD 017,022
 KLOSS NOVABEAM 081,082,187,196
 KTV 051,055,083,184,189,190

 LODGENET 096
 LOEWE 075
 LOGIK 096
 LUXMAN 017,022
 LXI 013,022,062,075,084,194
 MEGATRON 022,072
 MAGNAVOX 017,021,022,075,081,082
 087,088,089,090,101,102
 143,144,145,146,147,196,197
 MAJESTIC 096
 MARANTS 075
 MARANTZ 017,022,075,091
 MATSUI 075
 MEI 189
 MEMOREX 014,022,062,095,096
 MGA 017,018,022,034,035
 059,064,092,093,095
 MIDLAND 067,164,184,185,194
 MINUTZ 065
 MITSUBISHI 017,018,022,034,035,059
 064,092,093,094,095,102,138
 MONTGOMERY WARD 096
 MOTOROLA 016,186
 MTC 017,018,022,084,118,189,191
 MULTITECH 051,191
 MULTIVISION 097

 NAD 022,084,198
 NEC 016,017,018,022,098,102,108,213
 NIKEL 055
 NIKKO 022,029
 NTC 029
 ONKING 055
 ONWA 051,055
 OPTIMUS 198
 OPTONICA 108,186
 ORION 048

.....
 PANASONIC 016,067,075,183
 PHILCO 016,017,018,021,022,025
 075,081,082,087,088,090,196,197
 PHILIPS 016,017,019,021,022,025,075,081
 082,087,088,089,099,100,101,102
 PILOT 017,184
 PIONEER 017,022,103,104,105,192,198
 PORTLAND 017,018,022,029,184
 PRICE CLUB 118
 PRISM 067
 PROSCAN 013,194
 PROTON 017,022,025,106,188,199
 PULSAR 164
 PULSER 017

 QUASAR 016,067,083,107

 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
JC	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
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
.....	

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

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

LASER DISC CODES

PIONEER	093
PROSCAN	146
RCA	146

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
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
JC	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

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

The AUX button is normally used to control an audio component, but it 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.



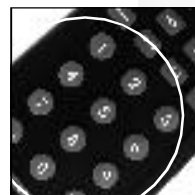
3. Press either AUX button.



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



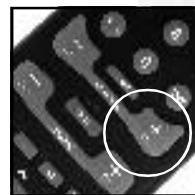
5. Enter the 3 digit Code from the Library Code Tables. The LED turns off after the last digit entered.



6. Point the remote at your A/V component and press the POWER button. Your A/V component should turn off.



7. Turn your A/V component on and press CHANNEL +. If it responds, setup is complete.



Notes:

If your audio/video component does not respond, try the other codes for your brand. If it still doesn't respond, try the Code Search method on page 26.

If the LED blinks rapidly when you enter 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.



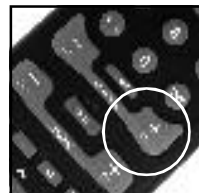
2. Press and hold SETUP until the LED indicator lights steadily. Release Setup button.



3. Press the mode button that matches the equipment you want to control. The LED blinks once. For Aux, press Aux, then the mode button.



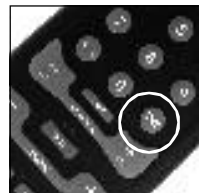
4. Press CH + repeatedly* until the device to be controlled changes channel.



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 CH + 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 SETUP until the LED indicator lights steadily. Release Setup button.



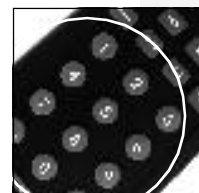
2. Press the mode button that matches the equipment you want to identify. The LED blinks once. For Aux, press Aux, then the mode button.



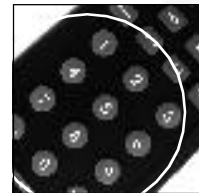
3. Press and release SETUP. The LED blinks once.



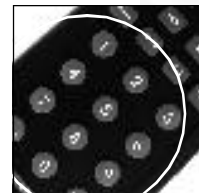
4. To find the first digit, press each number button from 0 to 9 until the LED blinks. The number you pressed is the first digit of the code.



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



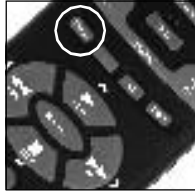
6. Press each number button in turn to find the third digit. When the third digit has been found, the LED will go out.



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:

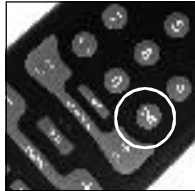
1. Press and hold **TIMER** until the LED indicator lights steadily. Release **TIMER** button.



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.

LEARNING

Your PUR08 Learning Remote has the codes for most TVs, VCRs, etc. in its code library. However, if the code for your particular device is not found in the library, you can learn these codes from your existing remote. Or if you find a code from the tables in this manual that “almost” matches your device, but a few buttons are missing, you can learn just those buttons.

1. Point your existing remote at the Learning Remote with a distance of about 2 inches between the remotes.



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



3. Press the mode button that matches the equipment you want to learn. The LED blinks once.



4. Press and release the **LEARN** button. The LED blinks once.



5. Press and release the button on the Learning Remote that you want to teach. The LED blinks once. (Press shift first to learn a shifted function). See notes on pages 30 and 31.

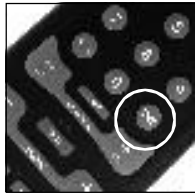


6. Press the button on your existing remote that you want to learn. Hold the button until the LED on the Learning Remote blinks off.



7. Repeat steps 5 and 6 for each button you want to learn.

8. When you've finished learning all the keys, press ENTER.



Notes:

Make sure you have fresh batteries in both remotes before learning.

Take care not to move either remote while pressing the buttons.

Experiment with the distance between the remotes if you have a problem learning.

Some remotes do not have their LED in the center so you might need to experiment with the side-to-side position of the remotes relative to each other.

Do not sit directly under an incandescent lamp while teaching the Learning Remote.

In most cases you will hold the button on the remote you are learning from until the LED goes out on the Learning Remote. In some cases however, you might find that the LED on the Learning Remote doesn't go out until you release the key on the remote you are learning from.

Use buttons L1 and L2 to learn codes for which the Learning Remote does not have a corresponding button.

If you have problems learning keys, try a Master Reset (Page 12) and then try learning them again.

You cannot store any functions under the following keys:

Learn	AUX2	Shift VCR
Setup	X10	Shift Cable
TV	Timer	Shift SAT
VCR	Enter	Shift CD
Cable	Shift	Shift AUX1
SAT	Shift Learn	Shift AUX2
CD	Shift Setup	Shift X10
AUX1	Shift TV	Shift Timer

You cannot store two products under the same key using shift, i.e. you can't enter the 3 digit code for a VCR and then press shift and enter another 3 digit code for another VCR. But you can learn a second product using SHIFT as follows.

e.g. For two VCRs:

Press SETUP, VCR, then enter the 3 digit code for your first VCR (see page 14 for more details).

For VCR2:

Press SETUP, VCR, LEARN.

Then press SHIFT, then Play (on the PUR08) then Play (on the original VCR remote).

Then SHIFT, then Stop (on the PUR08) then Stop (on the original VCR remote), etc.

Then Enter.

Then to access each VCR:

Press VCR on the PUR08 and the appropriate key on the PUR08 to access the first VCR.

Press VCR and then Shift, and then the appropriate key to access the second VCR. You can keep pressing keys and you will stay in the "shifted mode" for about 10 seconds. You will time out of the shifted mode about 10 seconds after the last key is pressed.

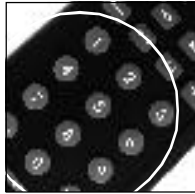
CONTROLLING X-10 PRO MODULES

If you have already installed a PAT01 Transceiver Module, (sold separately) you can control it and other X-10 Pro modules as follows:

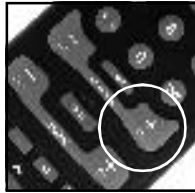
1. Press and release the X-10 button.



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 PRO FUNCTIONS:

On:	CHANNEL +
Off:	CHANNEL -
Bright:	VOLUME +
Dim:	VOLUME -
All Lights 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.

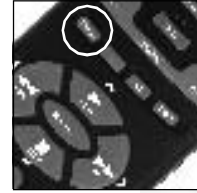
TO SET THE X-10 SLEEP TIMER

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

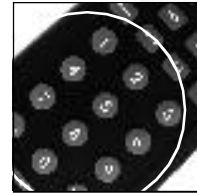
1. Press and release the X-10 button.



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



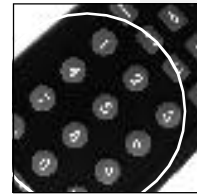
3. Use the number buttons to enter the module Unit Code for the module to be turned off.



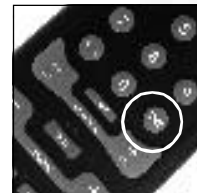
4. Press the desired function button (e.g. CH - to turn the module off after the preset time).



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



6. Press ENTER to confirm the setting.



CHANGING THE X-10 PRO HOUSE CODE:

The Learning Remote 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.

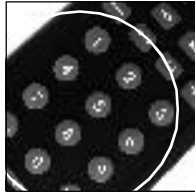
1. Press and release the X-10 button.



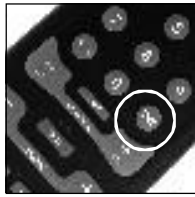
-
2. Press and hold SETUP until the LED indicator lights steadily. Release the Setup button.



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 Housecode you choose must match the Housecode on the Transceiver Module you are using it with.

CONTROLLING AN IR MINI CONTROLLER (IR543)

If you already own an IR Mini Controller, you will need to change the X-10 PRO Home Automation code in the remote to use it. The code for standard X-10 PRO Home Automation is 013. The code to control the IR mini controller is 014. To change the code:

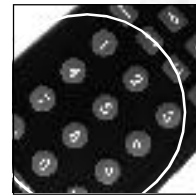
1. Press and hold SETUP until the LED indicator lights steadily. Release the SETUP button.



2. Press and release the X-10 button.



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



Note: In most cases, you will not need to use the IR Mini Controller to receive commands from the Learning Remote - the Transceiver Module does this for you and has the added advantage of working through walls. You can't control the IR Mini Controller and the Transceiver Module at the same time.

TROUBLESHOOTING

The Transceiver Module doesn't respond to the remote:

- Check the House Code of the Transceiver Module is set to A. If you have changed the Housecode on the remote (see p. 32), check that it matches the Housecode 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 Housecode as the Transceiver Module.
- Try plugging the module into a different outlet.

The Remote 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.
- Re-enter the code for your A/V product from the code listings on pages 15 through 24.
- Try searching for the code as described on page 26.
- Replace the Remote's batteries.

WARRANTY

24 MONTH LIMITED WARRANTY

X-10 PRO (X-10) WARRANTS ITS PRODUCTS TO BE FREE FROM DEFECTIVE MATERIAL AND WORKMANSHIP FOR A PERIOD OF TWO (2) YEARS FROM THE ORIGINAL DATE OF PURCHASE AT RETAIL. X-10 AGREES TO REPAIR OR REPLACE, AT ITS SOLE DISCRETION, A DEFECTIVE X-10 PRODUCT IF RETURNED TO X-10 WITHIN THE WARRANTY PERIOD AND WITH PROOF OF PURCHASE.

IF SERVICE IS REQUIRED UNDER THIS WARRANTY:

1. RETURN THE DEFECTIVE UNIT POSTAGE PREPAID TO YOUR DEALER.
2. ENCLOSE A DATED PROOF OF PURCHASE.
3. X-10 IS NOT RESPONSIBLE FOR SHIPPING DAMAGE. UNITS TO BE RETURNED SHOULD BE PACKED CAREFULLY.

THIS WARRANTY DOES NOT EXTEND TO ANY X-10 PRODUCTS WHICH HAVE BEEN SUBJECT TO MISUSE, NEGLIGENCE, ACCIDENT, INCORRECT WIRING OR TO USE IN VIOLATION OF OPERATING INSTRUCTIONS FURNISHED BY US, NOR EXTEND TO ANY UNITS ALTERED OR REPAIRED FOR WARRANTY DEFECT BY ANYONE OTHER THAN X-10. THIS WARRANTY DOES NOT COVER ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED AND NO REPRESENTATIVE OR PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF OUR PRODUCTS.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, AND/OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO THE ORIGINAL CUSTOMER. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.