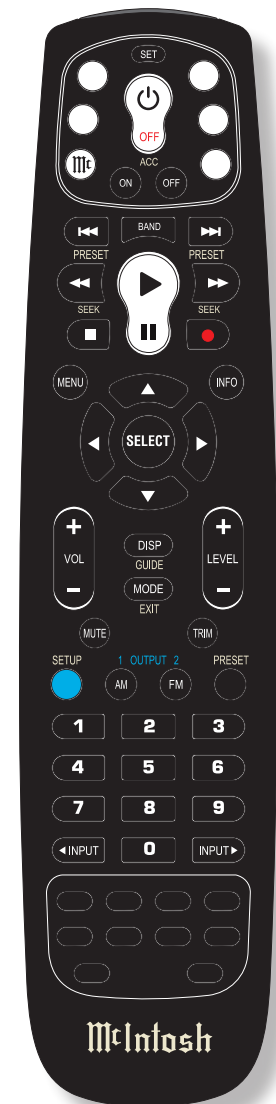




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HR070 Series
Remote Control
Programming Guide





Introduction

The McIntosh HR070 Series Remote Controls (HR070, HR071, HR072 and HR073) supplied with McIntosh Preamplifiers, Integrated Amplifiers, A/V Control Centers, and Source Components not only control a McIntosh Component System, but also have the ability of controlling non McIntosh Components in your system. Refer to figures 1 through 4

The HR70 Series Remote Controls have stored in permanent memory the necessary information to send the correct commands to the component to be controlled. By entering a five digit numeric code the commands for controlling the component is activated.

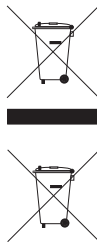
Battery Information

Use only fresh batteries of the required size and recommended type. When the battery voltage is low, the  Push-button will blink 5 times after another Push-button on the Remote Control is pressed. Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

If the Remote Control will not be used for an extended period, remove the batteries. They can leak chemicals and destroy the Remote Control.

When discarding the Remote Control, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

For additional information please visit the McIntosh Web Site at www.mcintoshlabs.com.



Installing Batteries

1. Open the battery compartment cover (located on the back of the remote).
2. Place the AA batteries in the compartment and match the + and - polarity symbols inside.
3. Replace the cover.

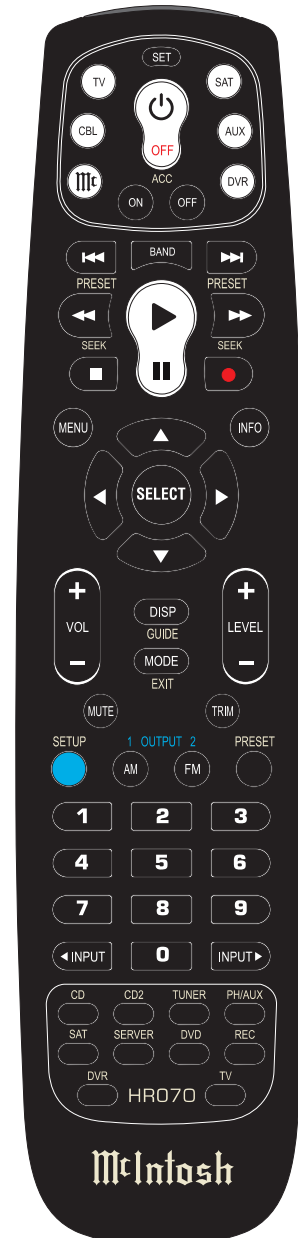
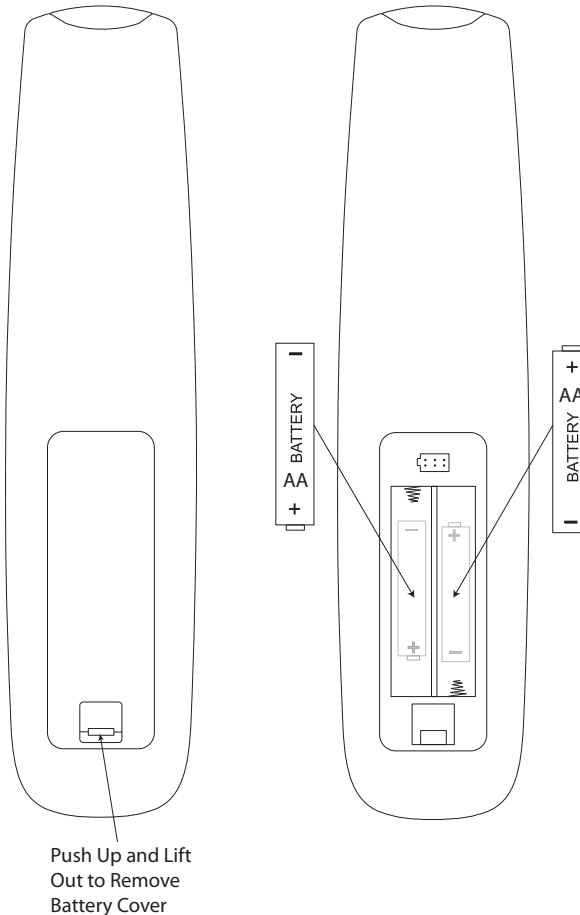


Figure 1

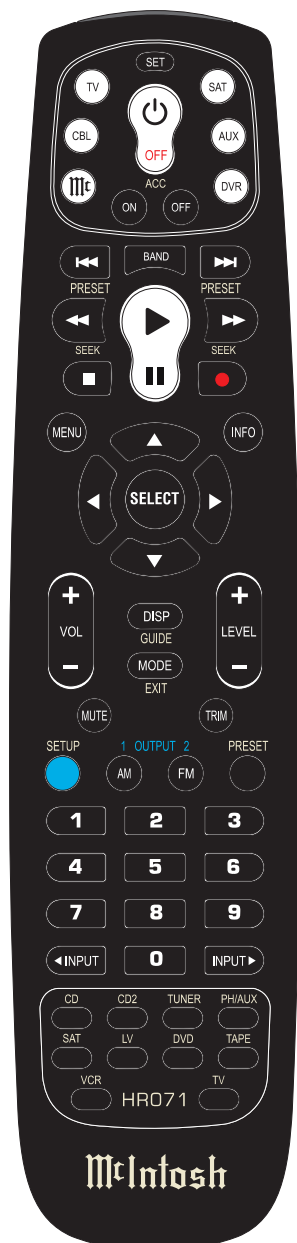


Figure 2

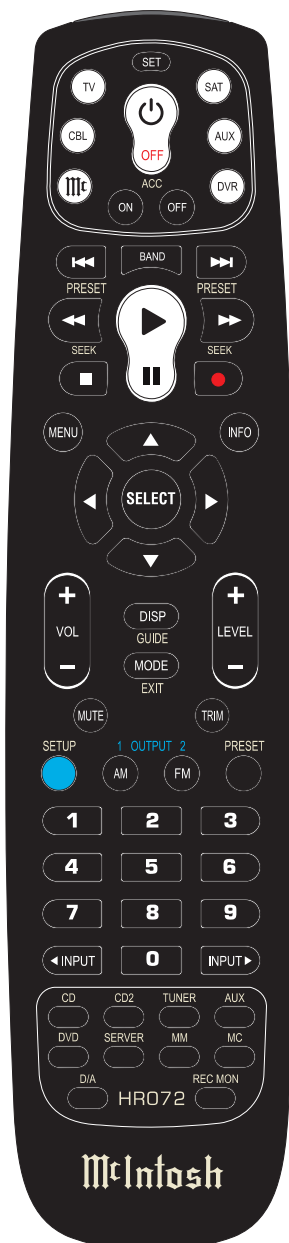


Figure 3

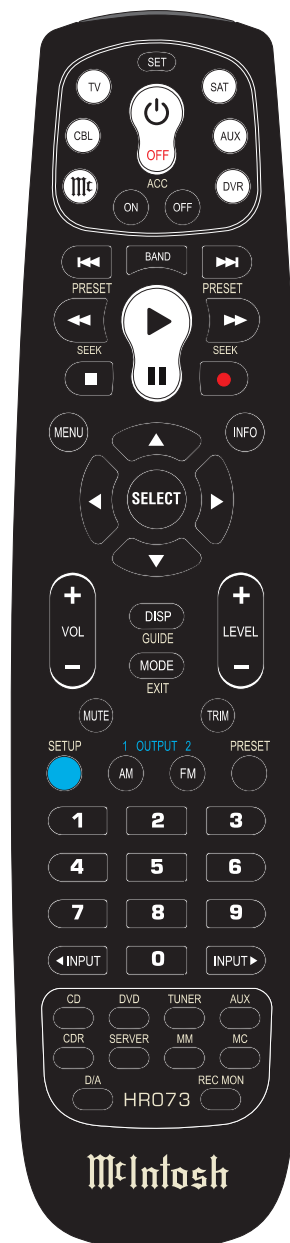


Figure 4

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Programming a Component

Program this Remote Control by first find the codes for the components you want to program (starting on page 7) and then follow the steps below:

1. Turn on the component (in this example, the TV).
2. Press TV Push-button on the Remote Control to be programmed. Refer to figure 5.
3. Press and hold SET Push-button until the  Push-button illumination blinks twice, then release.
4. Enter the first five-digit code (using the numeric push-buttons) for the component (TV) and brand that you wish to program. The  Push-button blinks once as each digit is entered. If the code is valid, the Push-button blinks twice.

Note: If the Push-button does not blink twice, repeat steps 2 to 4 and try entering the code again.

5. Aim the McIntosh Remote Control at the component and press Power Off. The TV should turn Off. If it does not, repeat steps 3–5, trying each code for your brand until you find one that works. If you cannot find a working TV code refer to “Searching Codes” on this page.

Note: There might be more than one Program Code Number capable of switching power Off to the TV. Choose the Code Number with the greatest number of desired active commands for the TV to be controlled.

6. Repeat steps 1 to 5 for the other components you want to control. For future reference, write down each working component code below:

HR Series Remote Control Programming		
Assigned Push-button	Component	Program Code
TV		
CBL		
SAT		
AUX		
DVR		

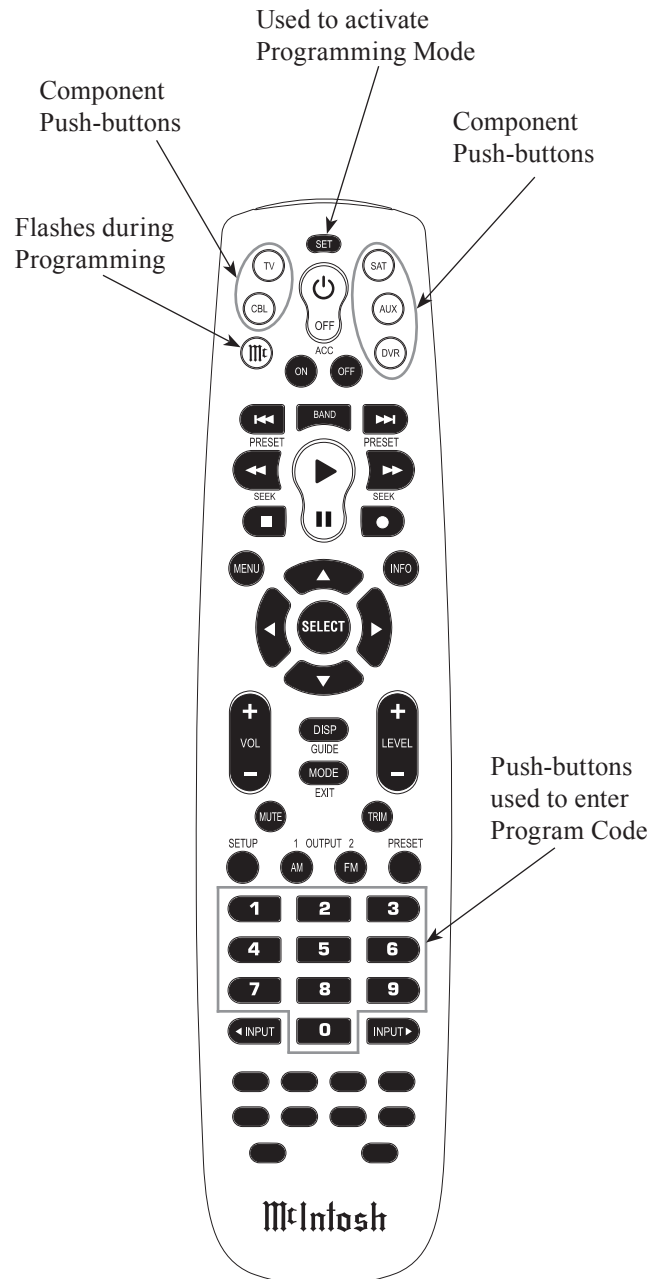


Figure 5

Searching for Code

If your component (TV in the Programming a Component example) does not respond to the Remote Control after trying all codes listed for your (TV) brand, or if your TV brand is not listed, try searching for your code:

1. Switch On the TV you wish to control.
2. Press the TV Push-button on the Remote Control once.
3. Press and hold SET Push-button until the  Push-button illumination blinks twice, then release.
4. Enter 9 9 1, then the component group number (see below). The  Push-button blinks twice.

Code Number	Component Group
0	Cable (Cable Converter, Video Accessories, Satellite Receivers)
1	TV
2	VCR (VCRs, DVD Players)
3	Audio (Audio Amplifiers, Audio Amp /Tuners, CD Players)

5. Aim the Remote Control at the TV and press Power Off. The Remote Control sends IR Codes from its library to the selected TV, starting with the most popular code first. If the component responds, go to step 7.
6. If the component does not respond, press LEVEL+ Push-button and the Remote Control will test the next code for that TV type. Continue to press LEVEL+ Push-button until the TV switches Off.

Note: Press LEVEL- Push Button to try the previous code.

7. Now that you have found the correct code, press SET to save the code that worked for the TV. The  Push-button will blink twice to indicate the code has been saved. To search for other component codes, repeat steps 1 to 5.

Verify Programmed Codes

At any time, an already entered code to operate a specific component can be verified. For example, to find out which code is assigned to your TV perform the following steps:

1. Press TV once.
2. Press and hold SETUP Push-button until the  Push-button blinks twice, then release.
3. Enter 9 9 0. The  Push-button blinks twice.
4. To view the first digit of the stored code press 1. Count the light blinks (for example, three blinks = 3), and write down the number.

Note: If a code digit is 0, the  Push-button does not blink.

5. Repeat step 4 for the four remaining digits, using 2 for the second digit, 3 for the third digit, 4 for the fourth digit, and 5 for the fifth digit.
6. To check for other component, repeat steps 1—5, substituting the component push-button you would like to check.

Diagnostic Assistance

Difficulty	Suggested Remedy
 does not blink when you press a Push-button	Try pressing other push-buttons; replace the batteries
 blinks when you press a key, but device does not respond	Make sure the remote control is aimed at your component and is not more than 40 feet away
 blinks one long blink while in SETUP mode	An entry error has occurred (for example, pressing the wrong push-button); try entering the sequence again

Difficulty	Suggested Remedy
Remote Control does not control component or commands are not working-properly	Try all listed codes for the component; make sure the component operates with the original remote control
CH+, CH-, and LAST do not work for your RCA TV	Due to design of RCA TVs from 1983 to 1987, only the original TV Remote Control will operate these functions
Channels do not change properly when directly entering digits to change channels	If the original remote control required you to press Enter to change channels, press SELECT on the McIntosh Remote Control after entering the channel number

Restoring Default Settings

In the unlikely event the Remote Control no longer controls McIntosh Components (the default McIntosh Command Codes were accidentally deleted) follow the steps below to restore them:

1. Press  Push-button on the Remote Control to be restored to default Command Codes. Refer to figure 5.
2. Press and hold SET Push-button until the  Push-button illumination blinks twice, then release.
3. Enter the five-digit code (using the numeric push-buttons) for the version of the McIntosh Remote Control (model number is located near the bottom of the remote control)

Note: If the McIntosh Component the Remote Control came with was changed (in the Setup Mode) to respond to the "Alternate Control Codes" then enter the Alternate Control Code

five digit number instead of the Normal Control Code Number.

HR Series Remote Control Programming		
Remote Control Model Number	Normal or Alternate Code	Code Number
HR070 or HR071	Normal	32428
HR070 or HR071	Alternate	32429
HR072	Normal	32436
HR072	Alternate	32437
HR073	Normal	32431

The  Push-button blinks once as each digit is entered. If the code is valid, the Push-button blinks twice.

Note: If the Push-button does not blink twice, repeat steps 2 to 4 and try entering the code again.

4. Aim the Remote Control at the McIntosh Component and verify normal operation using the remote control.

**Amplifier**

Adcom.....	30577, 31100
Bose.....	30674
Carver	30892
Curtis Mathes.....	30300
Durabrand	31561
Elan	30647
GE	30078
Harman/Kardon	30892
JVC.....	30331
Left Coast.....	30892
Lenoxx	31561
Marantz	30892
McIntosh	30251
Modulaire.....	30395
NEC	30264
Optimus.....	30395, 30013, 30300, 30823
Parasound.....	30246
Philips	30892
Pioneer	30013, 30300, 30823
Polk Audio	30892
RadioShack	30395
RCA.....	30013, 30300, 30823
Realistic.....	30395, 30013
Shure	30264
Sony	30689, 30815
Soundesign.....	30078
Victor	30331
Wards	30078, 30013
Yamaha	30354, 30133

Cable Set Top Box

A-Mark.....	00008, 00144
ABC	00237, 00003, 00008, 00014, 00017
Accuphase	00003, 00014, 00017
Acorn	00237
Action.....	00237

Active	00237
Americast.....	00899
Amino	01822
Archer	00237
BCC.....	00276
Bell & Howell	00014
Bell South.....	00899
British Telecom.....	00003
Century	00008
Citation.....	00017
Clearmaster	00883
ClearMax.....	00883
Cool Box	00883
Coolmax.....	00883
Digeo.....	01187
Digi	00637
Director	00476
Dumont	00637
DX Antenna	01500
Emerson	00014
Fosgate	00276
Fujitsu.....	01497
GE	00144
General Instrument.....	00476, 00810, 00276 00003, 00012, 00014
Gibraltar	00003
GMI.....	00883
GoldStar	00144
Hamlin	00009, 00273
Hitachi.....	0003, 00008, 00009
Insight	00476, 00810
Jebsee	00014
Jerrold	00476, 00810, 00276, 00003, 00012, 00014
Maspro	01510
Memorex	00000
Mitsubishi	00003
Motorola.....	01376, 00476, 00810, 00276

.....	01187, 01254, 00014, 01106
Multitech	00883
Myrio	01822
NEC	01496
Nova Vision.....	00008
Novaplex	00008, 00017
NSC.....	00012, 00637
Oak.....	00017
Pace	01877, 00877, 00237, 00008
Panasonic	00000, 00008, 00144, 00107, 01488
Panther	00637
Paragon	00000, 00008, 00525
Penney.....	0000, 00637
Philips	01305, 00317
Pioneer	01877, 00877, 00144, 00533, 01500
Prism	00012
Pulsar	00000
Quasar.....	00000
RadioShack	00883
RCA.....	01256
Regal	00276, 00279, 00273
Runco	00000
Samsung.....	00003, 00144
Scientific Atlanta	01877, 00877, 00477, 00237 00003, 00000, 00008, 00012
.....	00017, 01510
Sony	01006, 01460
Sprucer.....	00144
Starcom	00003, 00014
Stargate	00014
Storm.....	00637
Sumitomo.....	01500
Supercable.....	00276
Supermax	00883
Thomson	01256
Tocom.....	00012
Torx	00003

Cable Set Top Box, con't

Toshiba	00000, 01509
Tristar	00883
United Cable	00276, 00003, 00014
US Electronics	00276, 00003, 00008, 00017
V2	00883
Videoway	00000
Viewmaster	00883
Vision	00883
Vortex View	00883
Zenith	00000, 00525, 00899, 00017

Cable/PVR Combination

Americast	00899
Amino	01822
Digeo	01187
General Instrument	00810
Jerrold	00810
Motorola	01376, 00810, 01187, 01106
Myrio	01822
Pace	01877, 00237
Pioneer	01877, 00877
RCA	01256
Scientific Atlanta	01877, 00877
Sony	01006
Supercable	00276
Thomson	01256
Zenith	00899

CD Player

Acoustic Research	30420
Admiral	30305
Aiwa	30157
Arcam	30157
Audio Research	30157
Burmester	30420
Cairn	30157

California Audio Labs	30029, 30303
Cambridge Soundworks	30157
Carver	30157, 30179
Curtis Mathes	30032
Denon	30626, 30003, 30034
DKK	30000
DMX Electronics	30157
Emerson	30305
Fisher	30000, 30179
Funai	30305
Garrard	30393, 30420
Genexxa	30032, 30305
Grundig	30157
Hafler	30173
Harman/Kardon	30100, 30157, 30173
Hitachi	30032
Inkel	30157, 30180
Integra	30101
Jerrold	30003
JVC	30032, 30072
Kenwood	30626, 30000, 30029, 30028, 30037, 30190
KLH	31318, 31372, 31373, 31711
Krell	30157
Linn	30157
LXI	30179, 30305
Magnavox	30157, 30038, 30274, 30305
Marantz	30626, 30029, 30157, 30038, 30180, 30435
Matsui	30157
McIntosh	30256, 30290, 30660
MCS	30029
Memorex	30000, 30032, 30179, 30420, 30468
Micromega	30157
Miro	30000
Mission	30157
Modulaire	30000, 30032, 30087, 30179
.....	30180, 30420, 30468
MTC	30420

NSM	30157
Onkyo	31327, 30101
Optimus	30000, 30032, 30037, 30087
.....	30179, 30305, 30393, 30420, 30468
Panasonic	30029, 30303, 30388, 30752
Parasound	30420
Penney	30029
Philips	30626, 30157, 30274
Pioneer	31062, 30032, 31087, 30305, 30468
Polk Audio	30157
Proceed	30420
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	30000, 30032, 30179, 30180, 30420, 30468
RCA	31062, 30032, 30053, 30179, 30305, 30420, 30468
Realistic	30000, 30032, 30087, 30179
.....	30180, 30305, 30420, 30468
Revox	30157
Roksan	30435
Rotel	30157, 30420
SAE	30157
Sansui	30000, 30157, 30305
Sanyo	30000, 30087, 30179
Scott	30305
Sears	30179, 30305
Sharp	30037, 30034, 30180
Sherwood	30180
Sonic Frontiers	30157
Sony	30490, 30000, 30100, 31364, 30185
Sugden	30157
Sylvania	30157
Symphonic	30180, 30305
TAG McLaren	30157
Tandy	30032
Tascam	30393, 30420



Teac	30490, 30180, 30378, 30393, 30420
Technics	30029, 30303
Techwood	30303
Thule Audio	30157
Victor	30072
Wards	30032, 30157, 30053, 30087, 30179
Yamaha	30490, 30036, 31292
Yorx	30000

Home Automation

Accutec	31215
Amana	31716
Bionaire	30846, 31215
Frigidaire	31333
GE	30240
GoldStar	31537
Holmes	31215
Kenmore	31537
Lasko	30846
LG	31537
Lightolier	30184
Lutron	30597, 30318, 31239, 31597
Marmitek	30167
One For All	30167
PCS	30184
RadioShack	30240
Royal Sovereign	31651
Security System	30167
Sharper Image	30846
SmartLinc	30184
Universal	30167
Universal X10	30167
Whirlpool	31332
Windmere	31215
X10	30167

Audio - Accessory

Accurian	31106
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Altec Lansing	31056, 31485
Apple	31115, 31644
Cambridge Soundworks	31530
Creative	30872
D-Link	31522
Imerge	31491
Integra	31789
iPort	31917
Marantz	31491
Motorola	31464
NaviPod	31644
Netgear	31785
Omnifi	31605
Onkyo	31789
Roku	31828
Rusound	32019
Slim Devices	31844
Sonance	31917
SSI	31522
Yamaha	31809, 31810

Video - Accessory

ABS	01272
Accurian	01653
Alienware	01272
Allegro	00160
Archer	00160
Bantor	00160
Centronic	00160
CyberPower	01272
D-Link	01554, 01731
Epson	01563
Gateway	01272
GC Electronics	00160
Hauppauge	01757
Hewlett Packard	01272, 01267
Howard Computers	01272
HP	01272, 01267

Hush	01272
iBUYPOWER	01272
Jebsee	00160
JVC	01384
Keyspan	01344
Leadtek	01614
LG	01415
Linksys	01272, 01365
Macro Image Technology	01383
Media Center PC	01272
Microsoft	01272
Mind	01272
Motorola	01363
MyHD	01383
Niveus Media	01272
Northgate	01272
Panasonic	01120
Pinnacle Systems	01268
Pioneer	01010
Princeton	00113, 00295
RadioShack	00160
Ricavision	01272
Roku	01486
Samsung	01190, 01490
Sensory Science	01126
Sharp	01010
Sony	01272, 01324, 01364
Stack 9	01272
Sylvania	01563
Systemax	01272
Tagar Systems	01272
Toshiba	01272
Touch	01272
Verator	00113
Viewsonic	01272, 01329
Vizio	01126
Voodoo	01272
ZT Group	01272

Audio Receiver

ADC.....	30531
Adcom.....	30616
Aiwa.....	31405, 30189, 30121, 31388, 31641
Akai.....	30244, 31512
Alco.....	31390
AMC.....	31077
Amphion Media Works.....	31563, 31615
AMW.....	31563, 31615
Anam.....	31609, 31074
Apex Digital.....	31257, 31430, 31774
Arcam.....	31189
Audiotronic.....	31189
Audiovox.....	31390, 31627
B & K.....	30701, 30702, 30820, 30840
BK.....	30702
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Brix.....	31602
Cairn.....	30189
Cambridge Soundworks.....	31370
Capetronic.....	30531
Carver.....	31189, 30189, 30121, 31289
Classic.....	31352
Coby.....	31389
Criterion.....	31420
Curtis Mathes.....	30014
Daewoo.....	31250
Delphi.....	31414
Denon.....	31360, 30121, 30771, 31142, 31306
Emerson.....	30531
Fisher.....	31801
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Go Video.....	31532
Grundig.....	30189
Harman/Kardon.....	30110, 30189, 30891
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Hitachi.....	31273, 31801

Initial.....	31426
Inkel.....	30491
Insignia.....	31030
Integra.....	30135, 30842, 31298, 31320
JBL.....	30110, 31306
JVC.....	31058, 30074, 31374, 31495, 31811
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Lenoxx.....	31437
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LG.....	31293
Linn.....	30189
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Magnavox.....	31189, 31269, 30189, 30391
.....	30531, 31266, 31514
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Micromega.....	31189, 30189
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Myryad.....	31189
Nakamichi.....	31313, 30097
New Castle.....	30502
Norcent.....	31389
Nova.....	31389
Onkyo.....	30135, 30380, 30842, 31298, 31320, 31531
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.....	30186, 30502, 30531, 30670, 31074
Oritron.....	31366, 31497
Outlaw.....	30391
Panasonic.....	31308, 31518, 30309, 30367, 31288
.....	31316, 31548, 31633, 31763, 31764
Philips.....	31189, 31269, 30189, 30391, 30891, 31266
Pioneer.....	31023, 30014, 30150, 30244, 30531, 30630, 31384
Polaroid.....	31508

Polk Audio.....	30189, 31289, 31414
Proscan.....	31254
RadioShack.....	31609
RCA.....	31023, 31609, 31254, 30531, 31074, 31390, 31511
Realistic.....	31609, 30121, 30186
Regent.....	31437
Revox.....	30189
Rio.....	31869
Saba.....	31519
Samsung.....	31295, 31304, 31500
Sansui.....	31189, 30189, 31764
Sanyo.....	31251, 31469, 31801
Sharp.....	30186, 30771, 31286
Sharper Image.....	31556
Sherwood ...	30491, 30502, 31077, 31423, 31517, 31653
Shinsonic.....	31426
Sirius.....	31602, 31627, 31811, 31987
Sonic Blue.....	31532, 31869
Sony.....	31058, 31441, 31258, 31759, 31622, 30168, 30474, 31406,
.....	31558, 31658, 31758, 31858
Soundesign.....	30670
Stereophonics.....	31023
Sunfire.....	31313
Teac.....	30463, 31074, 31390, 31528
Technics.....	31308, 31518, 30309, 31384, 31633
Thorens.....	31189
Toshiba.....	30135, 30842, 31788
Venturer.....	31390
Victor.....	30074
Waitec.....	31352
Wards.....	30189, 30014
XM.....	31406, 31414
Yamaha.....	31023, 30176, 30186, 31176
.....	31276, 31331, 31375, 31476
Zenith.....	30857, 31293



Satellite Set Top Box

Aiwa.....	01514
AlphaStar.....	00772
Bell ExpressVu.....	00775
Chaparral.....	00216
Coolsat.....	01806
Crossdigital.....	01109
DirecTV.....	01377, 00392, 00566, 00639, 01639 01142, 00247, 00749, 01749, 00724 00819, 01856, 01076, 01108, 00099 01109, 01392, 01414, 01442, 01443 01444, 01609, 01640
Dish Network System.....	01505, 01005, 00775 01170, 01775
Dishpro.....	01505, 01005, 00775, 01775
DX Antenna.....	01530
Echostar.....	01505, 01005, 00775, 01170, 01775
Expressvu.....	00775, 01775
Fortec Star.....	01821
Funai.....	01377
GE.....	00392, 00566
General Instrument.....	00869
GOI.....	00775, 01775
Hisense.....	01535
Hitachi.....	00749, 00819, 01518
Houston.....	00775
HTS.....	00775, 01775
Hughes Network Systems.....	01142, 00749, 01749 01442, 01443, 01444
Humax.....	01790
iLo.....	01535
Innova.....	00099
Jerrold.....	00869
JVC.....	00775, 01170, 01507, 01775
LG.....	01226, 01414
Magnavox.....	00724, 00722
Maspro.....	01530
McIntosh.....	00869

Memorex.....	00724
Mitsubishi.....	00749
Motorola.....	00869
NEC.....	01519
Netsat.....	00099
Next Level.....	00869
Optimus.....	00724
Panasonic.....	00247, 00701, 01508
Pansat.....	01807
Paysat.....	00724
Philips.....	01142, 00749, 01749, 00775, 00724 00819, 01076, 00722, 00099, 01442
Pioneer.....	01142, 01442
Primestar.....	00869
Proscan.....	00392, 00566
Proton.....	01535
RadioShack.....	00566, 00775, 00869
RCA.....	00392, 00566, 01142, 00775 00855, 00143, 01392, 01442
Samsung.....	01377, 01142, 01276, 01108, 01109, 01442, 01609
Sharp.....	01489
SKY.....	00099
Sony.....	00639, 01639, 01524, 01640
Star Choice.....	00869
Star Trak.....	00772, 00869
Thomson.....	00392, 00566
Tivo.....	01142, 01442, 01443, 01444
Toshiba.....	00749, 01749, 00790, 00819 01285, 01501, 01530
UltimateTV.....	01392, 01640
Ultrasat.....	01806
Uniden.....	00724, 00722
US Digital.....	01535
USDTV.....	01535
Voom.....	00869
Zenith.....	01856

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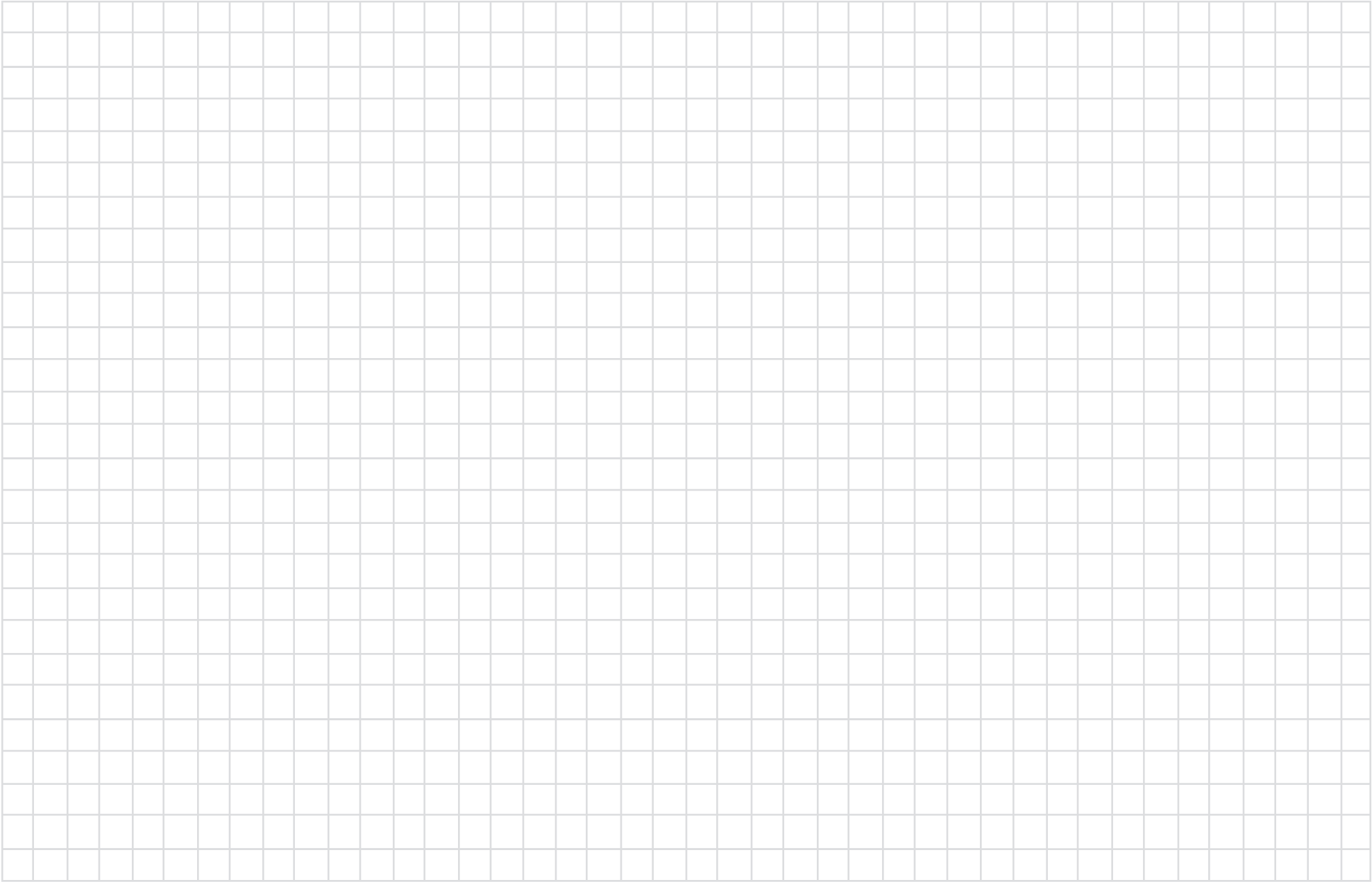
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