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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.

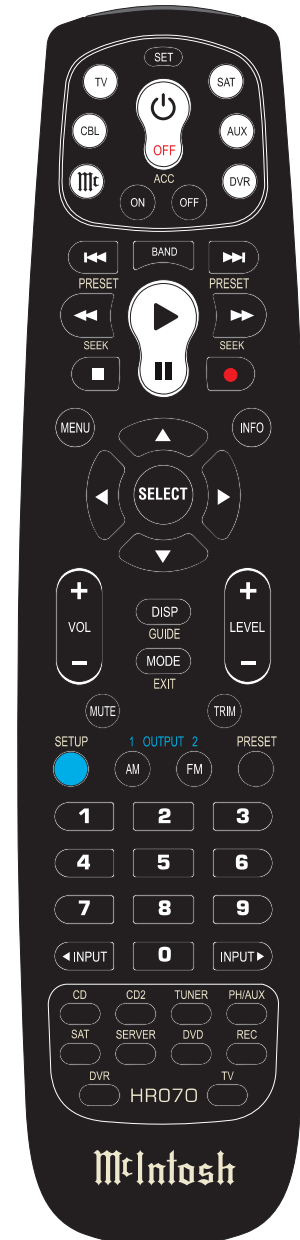
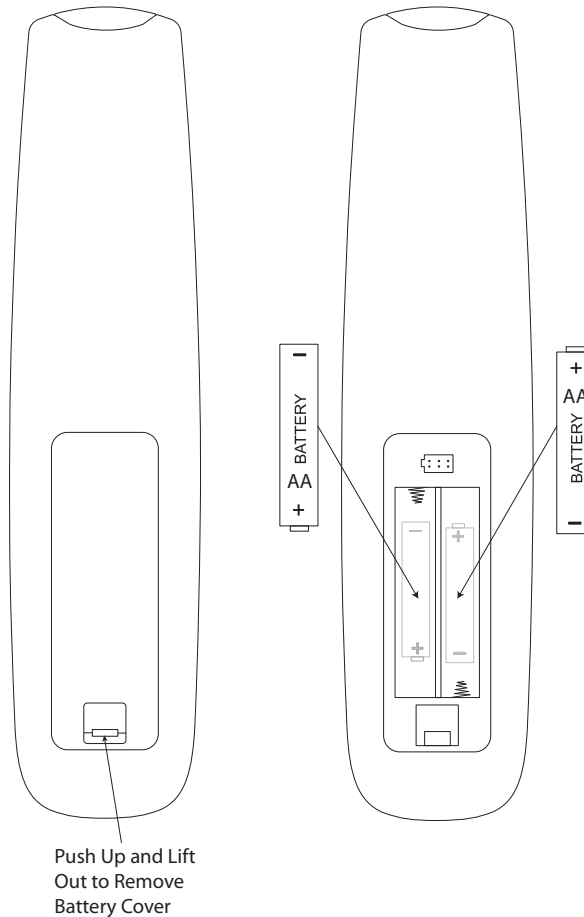


Figure 1

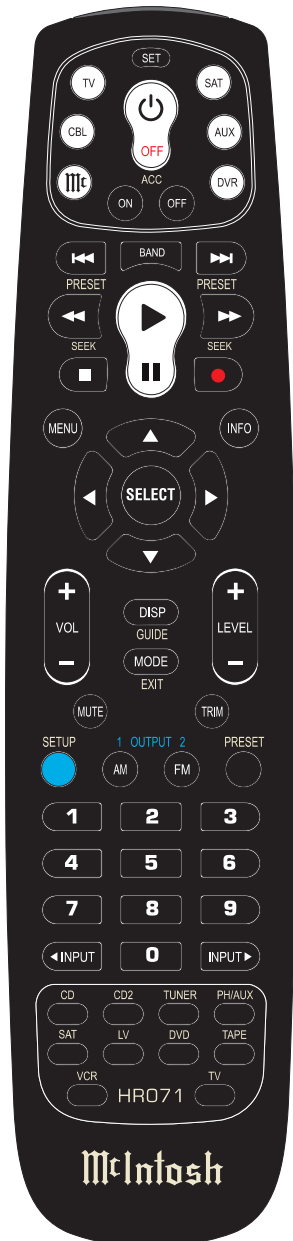


Figure 2

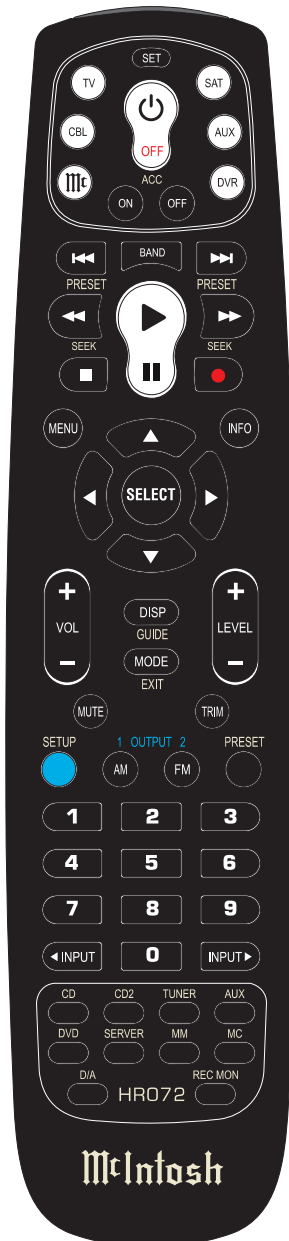


Figure 3

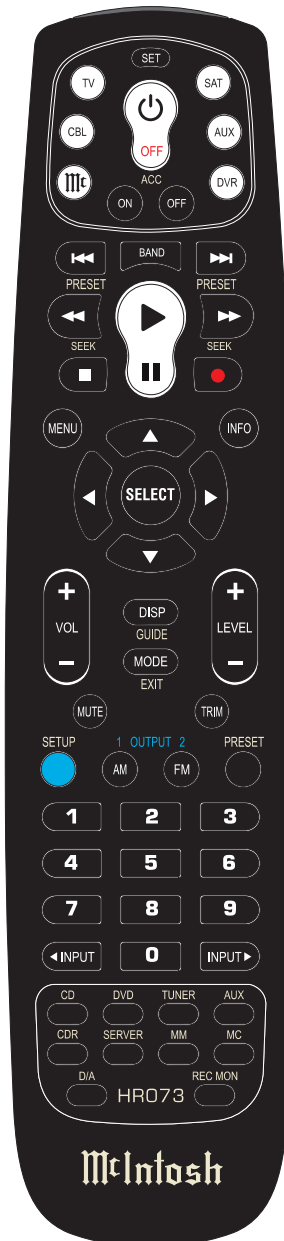


Figure 4



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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		

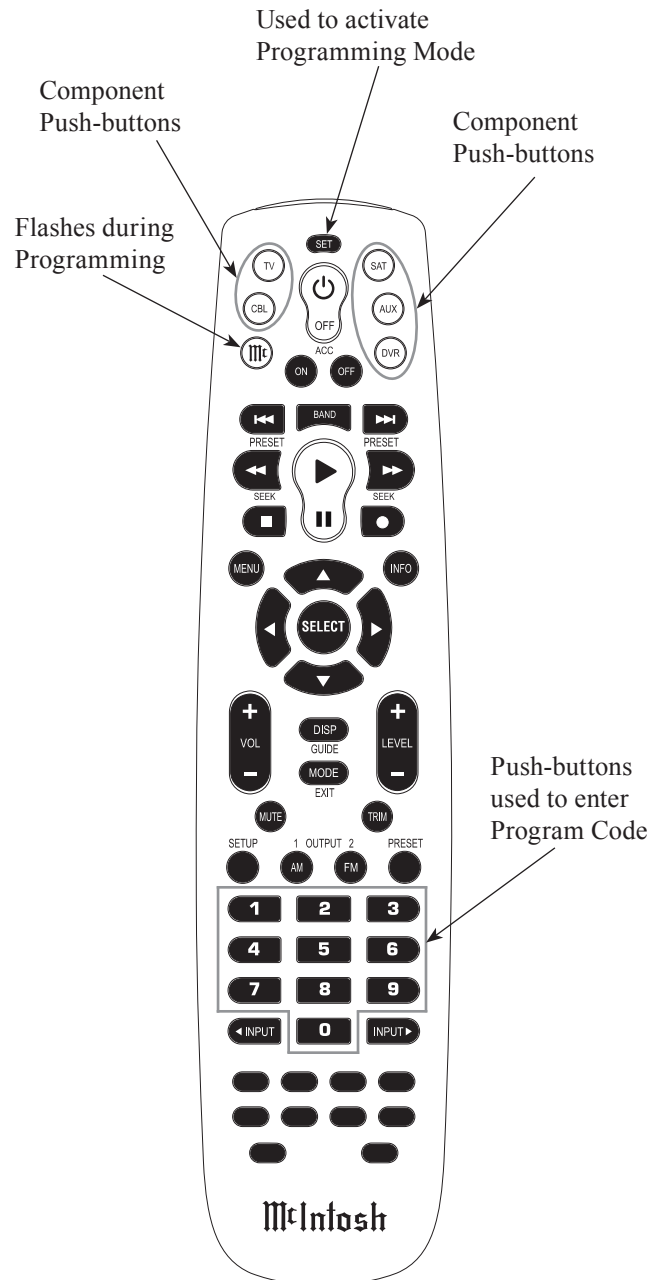




Figure 5


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
Russound.....	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	Initial.....	31426	Polk Audio.....	30189, 31289, 31414
Adcom.....	30616	Inkel.....	30491	Proscan.....	31254
Aiwa.....	31405, 30189, 30121, 31388, 31641	Insignia.....	31030	RadioShack.....	31609
Akai.....	30244, 31512	Integra.....	30135, 30842, 31298, 31320	RCA.....	31023, 31609, 31254, 30531, 31074, 31390, 31511
Alco.....	31390	JBL.....	30110, 31306	Realistic.....	31609, 30121, 30186
AMC.....	31077	JVC.....	31058, 30074, 31374, 31495, 31811	Regent.....	31437
Amphion Media Works.....	31563, 31615	Kawasaki.....	31390	Revox.....	30189
AMW.....	31563, 31615	Kenwood.....	31313, 31570, 31569, 30186	Rio.....	31869
Anam.....	31609, 31074	KLH.....	31390, 31412, 31428	Saba.....	31519
Apex Digital.....	31257, 31430, 31774	Koss.....	31366, 31497	Samsung.....	31295, 31304, 31500
Arcam.....	31189	Lasonic.....	31798	Sansui.....	31189, 30189, 31764
Audiotronic.....	31189	Lenoxx.....	31437	Sanyo.....	31251, 31469, 31801
Audiovox.....	31390, 31627	Lexicon.....	31076	Sharp.....	30186, 30771, 31286
B & K.....	30701, 30702, 30820, 30840	LG.....	31293	Sharper Image.....	31556
BK.....	30702	Linn.....	30189	Sherwood ...	30491, 30502, 31077, 31423, 31517, 31653
Bose.....	31229, 30639, 31253, 31841, 31933	Liquid Video.....	31497	Shinsonic.....	31426
Brix.....	31602	Magnavox.....	31189, 31269, 30189, 30391	Sirius.....	31602, 31627, 31811, 31987
Cairn.....	30189	.....	30531, 31266, 31514	Sonic Blue.....	31532, 31869
Cambridge Soundworks.....	31370	Marantz.....	31189, 31269, 30189, 30891, 31289	Sony.....	31058, 31441, 31258, 31759, 31622, 30168, 30474, 31406,
Capetronic.....	30531	McIntosh.....	31289	.....	31558, 31658, 31758, 31858
Carver.....	31189, 30189, 30121, 31289	Micromega.....	31189, 30189	Soundesign.....	30670
Classic.....	31352	Mitsubishi.....	31393	Stereophonics.....	31023
Coby.....	31389	Myryad.....	31189	Sunfire.....	31313
Criterion.....	31420	Nakamichi.....	31313, 30097	Teac.....	30463, 31074, 31390, 31528
Curtis Mathes.....	30014	New Castle.....	30502	Technics.....	31308, 31518, 30309, 31384, 31633
Daewoo.....	31250	Norcent.....	31389	Thorens.....	31189
Delphi.....	31414	Nova.....	31389	Toshiba.....	30135, 30842, 31788
Denon.....	31360, 30121, 30771, 31142, 31306	Onkyo.....	30135, 30380, 30842, 31298, 31320, 31531	Venturer.....	31390
Emerson.....	30531	Optimus.....	31023, 30074, 30014, 30121	Victor.....	30074
Fisher.....	31801	.....	30186, 30502, 30531, 30670, 31074	Waitec.....	31352
Garrard.....	30463	Oritron.....	31366, 31497	Wards.....	30189, 30014
Gateway.....	31517	Outlaw.....	30391	XM.....	31406, 31414
Go Video.....	31532	Panasonic.....	31308, 31518, 30309, 30367, 31288	Yamaha.....	31023, 30176, 30186, 31176
Grundig.....	30189	.....	31316, 31548, 31633, 31763, 31764	.....	31276, 31331, 31375, 31476
Harman/Kardon.....	30110, 30189, 30891	Philips.....	31189, 31269, 30189, 30391, 30891, 31266	Zenith.....	30857, 31293
.....	31289, 31304, 31306	Pioneer.....	31023, 30014, 30150, 30244, 30531, 30630, 31384		
Hitachi.....	31273, 31801	Polaroid.....	31508		

**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
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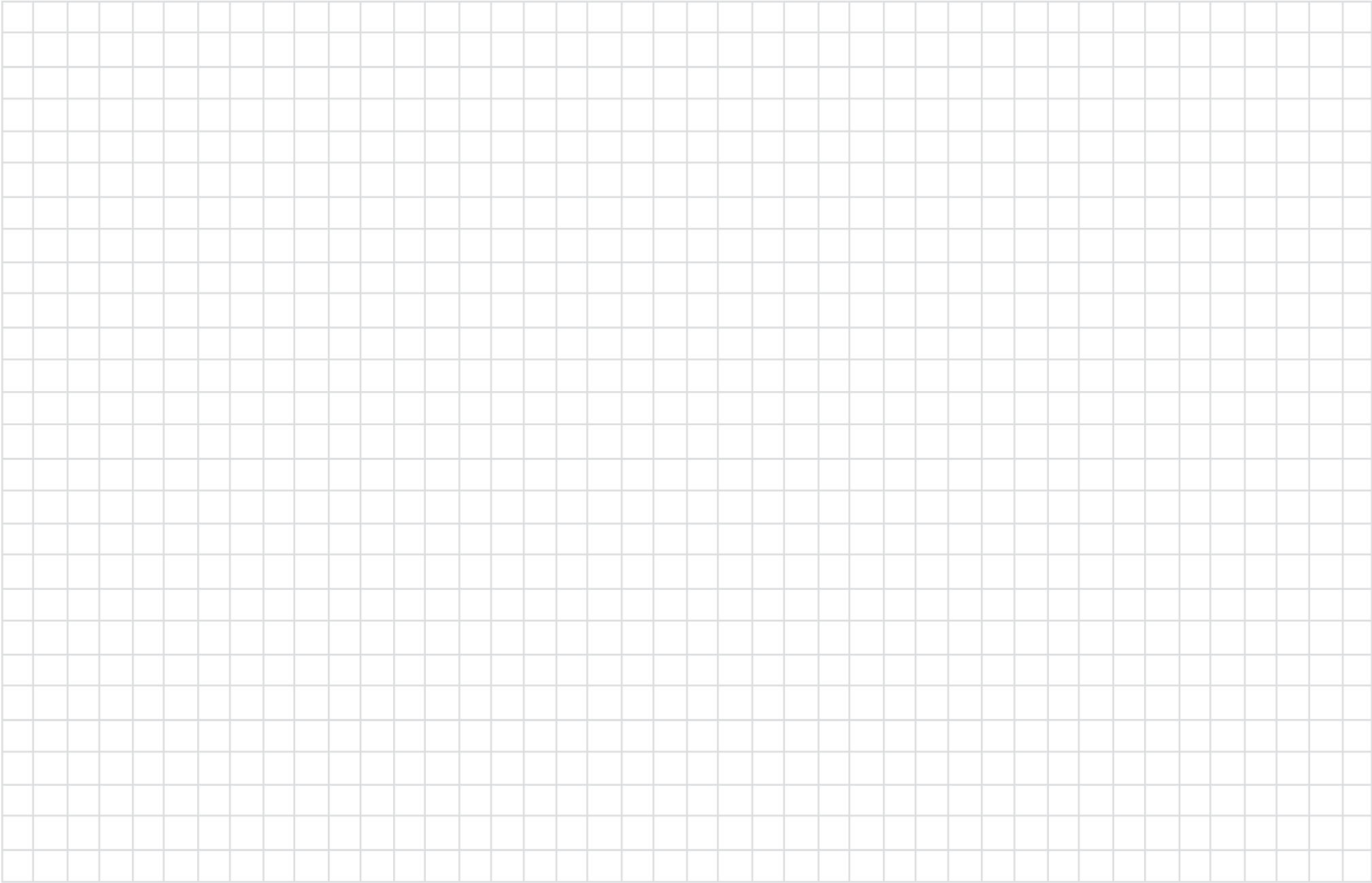
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