

Specifications



Dedicated A-BUS Control buttons plus 6 Banks with Code Library and Learning Capabilities

A-BUS Buttons:	4 x Source Input, Volume Up/Down Off and All Off
Banks:	6 (All Bank Buttons will Learn Macros)
Buttons:	39 Keys per Bank (Not Including A-BUS)
Range:	< 50 feet (15m) (Depending on Source Component)
Code Library:	Extensive Infrared Code Library for Audio Video Products
Macros:	Any Button (Up to 32 Commands from any Other Button)
Batteries:	2 x AA batteries (Supplied)
Size (H x W x D):	1.4" (35 mm) x 2.6" (66 mm) x 8.4" (214 mm)

Additional Information

- Keep the remote dry. If it gets wet, wipe it dry immediately.
- Use and store the unit only in normal temperature environments.
 - Handle the remote gently and carefully. Don't drop it.
- Wipe the remote with a damp cloth to keep it looking like new.

The A-BUS™ Universal Remote does not contain any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your A-BUS™ Universal Remote. Modifying or tampering with the internal parts can cause damage and invalidate the warranty. If your remote is not performing as it should, please contact your place of purchase.

SPECIFICATIONS

Power: (2) AA
 Size: (H x W x D) 8.43 x 2.64 x 1.38 in
 (214 x 66 x 35 mm)
 Weight: (w/o batteries) 5.6 oz (158.76 g)

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

FCC NOTICE

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been verified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

07A02 M66400

A-BUS™ Universal Remote



Operation Manual

Introduction

Thank you for purchasing an A-BUS™ Universal Remote. Your remote has a dedicated A-BUS bank and six banks of buttons that can be encoded from the library of codes or codes which you can learn from the handsets belonging to the components you wish to control. Each button including bank buttons can learn macros (multiple commands). Once set up to your requirements it should make the operation of your system simple and functional. To program your devices, follow the instructions in "Programming a Device". For best results, please read and follow all the remaining instructions. Also, keep this guide for future reference.

Installing Batteries

Your A-BUS™ Universal Remote requires 2 AA batteries (Supplied) installed, please remove battery isolation tab before operation.

Battery Use and Safety

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- If you do not plan to use the remote for an extended period, remove the batteries. They can leak chemicals that can destroy electronic parts.

WARNING: Dispose of old batteries promptly. Do not burn or bury them.

To Install 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 with the symbols on the batteries.
3. Replace the cover.



51929 Zonda 10003	GOI 21944 GoldStar 20037, 20209, 20038, 20226, 20225, 21237 Gradiente 20000 Haojie 20240 Harley Davidson 20000 Harmann/Kardon 20081, 20038 Harwood 20072, 20068 Hauppauge 21992 Headquarter 20046 Hewlett Packard 21972 Hi-Q 20047 Hitachi 20037, 20000, 20042, 20041, 20166, 20105, 20089 Howard Computers HP 21972 HTS 21944 Hughes Network Systems 20042, 21949, 20739 Hyundai 21951 iBUYPOWER 21972 Jensen 20041 JVC 20045, 20067, 20041, 21945, 20008, 21944, 20384, 20366 KEC 20037, 20278 Kenwood 20067, 20041, 20038, 20384 Kodak 20035, 20037 Kolin 20043, 20041 LG 20037, 20045, 20042, 20209, 20038, 22010, 21037, 20040 Lloyd's 20000, 20208 Logik 20072 LXI 20037 Magnasonic 21278, 20593 Magnavox 20035, 20039, 20081, 20000, 20593, 20563, 20110, 21781 Magnin 20240 Marantz 20035, 20081, 21381 Marta 20037 Matshushita 20035, 20162, 20226, 21162, 20367, 20227 Media Center PC 21972 MEI 20035 Memorex 20035, 20162, 20037, 20048, 20039, 20047, 20240, 20000, 20104, 20209, 21237, 20046, 20479, 21162, 20348, 21048, 21262, 20307, 21037 MGA 20240, 20043, 20061 MGN Technology 20240 Microsoft 21972 Mind 21972 Minolta 20042, 20105 Mitsubishi 20067, 20043, 20041, 20061, 20807, 20173 Motorola 20035, 20048 MTC 20240, 20000 Multitech 20000, 20072 NAD 20058 National 20226 NEC 20035, 20037, 20048, 20104, 20067, 20041, 20038, 20040, 20008, 20370 Newave 20037 Nikko 20037 Nikon 20253, 20034 Noblex 20240 Northgate 21972 Olympus 20035, 20226, 21046 Onkyo 20222 Optimus 21062, 20162, 20037, 20048, 20104, 21048, 21262, 20593, 21162, 20058, 20432 Optonica 20062 Onion 20184, 20209, 20002,	20479, 20295, 21479 Panarex 21950 Panasonic 21062, 20035, 20162, 20077, 20226, 20616, 21162, 20225, 20367, 20227, 21035, 21262 Pansat 21950 Penney 20035, 20037, 20240, 20042, 20038, 21035, 20040, 20054, 21237 Pentax 20042, 20105 Philco 20035, 20000, 20226, 20479 Philips 20035, 20081, 20000, 20226, 20739, 21381, 20110, 20618, 21181, 20563, 21081, 21949, 20062 Pilot 20037 Pioneer 20042, 20067, 20058 Polk Audio 20081 Profitronic 20240 Proscan 20060, 20760, 21954, 20202, 21060, 20761 Protex 20072 Pulsar 20039 Qisheng 20060 Quarter 20046 Quartz 20046 Quasar 20035, 20162, 21035, 20077, 21162 RadioShack 20000, 21037 Radix 20037 Randex 20037 RCA 20060, 20035, 20240, 20000, 20042, 20807, 21080, 21989, 20106, 20761, 21035, 20593, 21984, 21005, 20226, 20760, 20880, 21954, 20077, 20202, 20453 Realistic 20035, 20037, 20048, 20047, 20000, 20104, 20066, 20046, 20062 ReplayTV 20614, 20616 Ricoh 20253, 20034 Runco 20039 Sampo 20037, 20048 Samsung 20240, 20045, 20212, 20760, 20210, 20432, 21014 Samtron 20643 Sanky 20048, 20039 Sansui 20000, 20067, 20209, 20041, 20479, 20271, 21479 Sanyo 20047, 20240, 20104, 20046, 20159, 20369, 20368 Scott 20184, 20045, 20121, 20043, 20210, 20212 Sears 20035, 20037, 20047, 20000, 20042, 20104, 20046, 20066, 21237, 20054, 20105 Sharp 20048, 20209, 20363, 20848, 20807, 20062, 20738, 21048 Shinco 20000 Shintom 20072 Shogun 20240 Singer 20072 Sonic Blue 20614, 20616 Sony 20035, 20032, 20033, 20000, 20253, 20639, 21232, 21972, 20636, 21032, 21957, 20034, 20586, 20640, 21956 STS 20042 Sunpak 20253 Sylvania 20035, 20081, 20000, 20043, 20110, 21781, 21593, 20593 Symphonic 20000, 21593, 20593	Systemax 21972 Tagar Systems 21972 Tashiko 20037 Tatung 20045, 20067, 20041, 20366, 20008 Teac 20000, 20041 Technics 20035, 20162 Teco 20035, 20037, 20048, 20041, 20038, 20040 Teknika 20035, 20037, 20000, 20052 Thomas 20000 Tivo 20739, 21957, 20636, 21956, 20618, 21503 TMK 20240, 20208, 20036 Toshiba 20045, 20067, 20043, 20041, 20210, 20384, 21008, 21972, 20366, 20845, 21503, 20066, 20212, 20828, 21145, 20018 Totevision 20037, 20240 Touch 21972 UltimateTV 21989 Uritech 20240 Vector 20045 Vector Research 20038, 20040 Victor 20067, 20041, 20008, 20384 Video Concepts 20045, 20040, 20061 Videomagic 20037 Videosec 20240 Viewsonic 21972 Villain 20000 Wards 20060, 20035, 20048, 20047, 20081, 20240, 20000, 20042, 20072, 20062, 20212, 20760 White Westinghouse 20209, 20072, 20637 XR-1000 20035, 20000, 20072 Yamaha 20041, 20038 Zenith 20039, 20033, 20000, 20209, 20034, 20479, 21479, 21139, 20637 ZT Group 21972	Toshiba 01272 Touch 01272 Viewsonic 01272, 01329 ZT Group 01272
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Searching For Your Code

If your device does not respond to the remote after trying all codes listed for your brand, or if your brand is not listed, try searching for your code:

1. Press a device key once.
2. Press and hold "SETUP" until the red LED blinks twice, then release.
3. Enter "991". The LED blinks twice.
4. Enter the device group number:

Code Device Group

- | | |
|---|--|
| 0 | Cable (Cable Converters, Video Accessories, Satellite Receivers) |
| 1 | TV (TVs) |
| 2 | VCR (VCRs, DVD players) |
| 3 | Audio (Audio Amplifiers, Audio Amp/Tuners, CD players) |

5. Select a test function, such as Power or Play. The remote sends IR codes from its library to the selected device, starting with the most popular code first.
 6. If the device responds, go to step 7. If the device does not respond press "CH+". The remote will try the next code. Continue until the device responds.
- NOTE:** Press "CH-" to try the previous code.
7. To set the code, press "SETUP" once. The LED blinks twice.
 8. To search for other device codes, repeat steps 1 to 6.

Checking The Codes

If you have set up the remote using the procedure in "Searching for Your Code", you may need to find out which four-digit code is operating your equipment.

For example, to find out which code is assigned to your AMP:

1. Press AMP once.
2. Press and hold "SETUP" until the red LED blinks twice, then release.
3. Enter "990". The LED blinks twice.
4. To view the code for the first digit, press "1" Count the LED blinks (for example, three blinks = 3), and write down the number in the appropriate code listing at the bottom of page 2 under "Program ming a Device".

NOTE: If a code digit is 0, the LED does not blink.

5. Repeat step 4 for the three 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 device codes, repeat steps 1-5, substituting the device key for AMP

Changing The Volume Lock

The A-BUS™ Universal Remote comes preset to allow independent volume control of each selected device (Global Volume Unlock). However, you may change the Volume Lock Setting to Global Volume Lock so that one device's volume will control volume in all other modes. After that, you can perform independent operation or Global Volume Unlock to remove all volume locking.

Locking Volume Control to One Mode (Global Volume Lock)

1. Press and hold "SETUP" until the red LED blinks twice, then release.

30032, 30437, 30194, 30087, 30420, 30196	30037, 31075, 30305, 30179, 30468, 30175, 30196	30342, 30145, 30426, 30280, 30175, 30196	Panasonic 30029, 30752, 30303, Parasound 30420, 30194, Philips 30626, 30157, 30287	30029, 30163, 30162, 30305, 30468, 31087	Pioneer 31063, 31062, 30305, 30179, 30468, 31087	Polk Audio 30157	QED 30157	Quad 30157	Quasar 30029	RadioShack 31075	RCA 31062, 30032, 30305, 30764, 30179, 30468, 30009, 30155, 30420, 30053	Realistic 30164, 30180, 30155, 30179, 30175, 30420	Rotel 30157, 30420	SAE 30157	Sansui 30157, 30305, 30202	Sanyo 30179, 30087	SAST 30157	Scott 30305, 30164, 30155	Sears 30305	Sharp 30861, 30037, 30180	Sherwood 31067, 30196, 30180, 30426	Shure 30043	Silsonic 30888, 30036	Sonic Frontiers 30157	Sony 30490, 30000, 31364, 30185, 30605, 30100, 30604	Soundesign 30425, 30145	STS 30018	Symphonic 30305	TAG McLaren 30157	Tascam 30420	TDK 31208	Teac 30393, 30180, 30174, 30420	Technics 30029, 30207, 30303	Tivoli Audio 31553	Vector Research 30194, 30417	Victor 30072	Wards 30157, 30053	Yamaha 30888, 30036, 30187, 30170, 31292	YBA 30625	Yorx 30461	Zonda 30157	Cambridge Soundworks 21916	CAVS 21057	Changhong 20627, 21061	CineVision 20876, 20869	Classic 21917	Coby 20778, 21107, 21086, 21923, 20852, 21165	Criterion 22007	Curtis Mathes 21087	CyberHome 21023, 21129, 20816, 21117, 21024	Daewoo 20784, 20869, 20833, 21918, 21172, 20705	Denon 20490, 20634	Dual 21085, 21068	DVD2000 20521	Emerson 20591, 20675, 20821	Enterprise 20591	Fisher 20670, 21919	Funai 20675	Gateway 21077, 21073, 21158	GE 20522, 20815, 20717	Go Video 20744, 20869, 21099, 21970, 20715, 20833, 21075, 21730, 20783, 21044, 2114	GPX 20699, 20769	Greenhill 20717	Harman/Kardon 20582, 20702	Hitachi 20573, 20664, 21919	Hiteker 20672	Initial 20717, 21931	Integra 20627, 21924	Jamo 22003	Jaton 21078	JBL 21926, 20702	Jensen 21016	JVC 20558, 20623, 21940, 21901, 20867	jWin 21051, 21049	Kenwood 20490, 20534, 21063, 20682	KLH 20717, 21939, 21149, 21020	Konka 20720, 20719, 20711, 20721	Koss 20651	Landel 20826	Lasonic 20798, 21173	Lennox 21938	LG 20801, 20101	Liquid Video 21980	Lite-On 21158, 21058	Loewe 20511	Magnavox 20503, 20675, 21976, 21914, 20821	Malata 21159, 20782	Marantz 20539	Memorex 20695	Microsoft 20522	Mintek 20839, 20717	Mitsubishi 21521, 20521	Momitsu 21082	NBC 20785	Nesca 20717	Next Base 20826	Niro 22024	Norcent 21003, 20872, 21923, 21107	Onkyo 20503, 20627, 21924, 20792, 21985	Orritron 20651, 21980	Panasonic 20490, 21462, 21907, 21910, 21990, 21362, 21762, 21909, 21986, 20632, 21490, 21908, 21925, 22017	Philco 22000	Philips 20503, 20539, 20646, 20885, 20854, 21914	Pioneer 20525, 20571, 20638, 20632, 20631, 21902	Polaroid 21086, 21061, 21998, 21200	Polk Audio 20539	Portland 20770	Prima 21016	Princeton 20574	Proscan 20622	Qwestar 20651	RCA 20522, 20571, 20717, 20822, 21193, 21974, 21132, 21965, 21022, 21913	Regent 21938	Rio 20869	Rotel 20623	Rowa 20823	Saba 21977	Sampo 20752, 20698	Samsung 20490, 20573, 20820, 21932, 21075, 20899, 21979	Sansui 20695	Sanyo 20695, 20670, 21967, 20873	Sharp 20630, 20752	Sharper Image 21995, 21117	Sherwood 21043, 20770, 20633, 21077	Shinco 20717	Shinsonic 20533, 20839, 21931	Sigma Designs 20674	Sonic Blue 20869, 21970, 21099	Sony 20533, 21533, 20864, 21033, 21904, 22020, 21903, 21981, 20772, 21934	Sungale 21074	Superscan 20821	SVA 20717, 20860, 21105	Sylvania 20821, 20675	Symphonic 20675	Teac 21984, 20809	Technics 20490	Technosonic 20730	Techwood 20692	Terapin 21031	Theta Digital 20571	Tivo 21996	Toshiba 20503, 21154, 22006, 21045, 21996, 20695, 21988	Tredex 20803, 20800, 20799, 20804	TYT 20705	Urban Concepts 20503	US Logic 20839	V Inc. 21226, 21064	Vocopro 21027	Xbox 20522	Xwave 21001	Yamaha 20490, 20539, 20545	Zenith 20503, 20591, 21906, 20869, 22002	GOI 00775, 01775	Goodmans 01246	Hisense 01535	Hitachi 08919, 01250, 00214, 00491, 00489, 00201	HTS 00775, 01775	Hughes Network Systems 01142, 00749, 01749, 01443, 01442, 01444	I-LV 01535	JVC 00775, 01170, 00492, 01775	LG 01414, 01226	Magnavox 00724, 00722	Matsushita 00340, 00340	Memorex 00724	Mitsubishi 00749, 00491	Motorola 00869	NEC 00496, 01270	Next Level 00869	Panasonic 00247, 00701, 00214, 00500, 00340	Paysat 00724	Philips 01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442	Proscan 00392, 00566	Proton 01535	RadioShack 00869	RCA 00392, 00566, 00855, 00143, 01392	Samsung 01276, 01109, 01108	Sanyo 00493, 01219	Sharp 00494	SKY 00856	Sony 00639, 01639, 00294, 01640, 00163	Star Choice 00869	Tivo 01142, 01444, 01443, 01442	Toshiba 00749, 01749, 00790, 00486, 01285	UltimateTV 01392, 01640	Uniden 00724, 00722	US Digital 01535	USDTV 01535	Tivo 00492	Voom 00869	Zenith 00856, 01856	11937, 10003	Axion 11937	Baiehe 10264	Baile 10001, 10391	Baohuashi 10264	Baosheng 10817	Beijing 10812, 10391, 10264, 10817, 10001	Belcor 10019	Bell & Howell 10154, 10016	BenQ 11032	Bradford 10180	Brookwood 10019	Broksonic 10236, 11911, 11938, 10003, 11905, 11935, 11929	Caihong 10817	Cailing 10748	Candle 10030, 10046, 10186, 10056	Carnivale 10030	Carver 10054, 10170	Celebrity 10000	Celera 10765	Changcheng 10051, 10817, 10001, 10391, 10264	Changfei 10817	Changfeng 10817, 10264	Changhai 10817	Changhong 10156, 10765, 10817, 10264, 10783, 10767, 11910	Chengdu 10817	Ching Tai 10003, 10474, 10179, 10092	Chun Yun 10000, 10180, 10161, 10474, 11150, 10092, 10843, 10003, 10179, 10700	Chunghsin 10264	Chung Hsin 10180, 10053, 11150, 10036, 10474	Chunson 10817	Cinema 10672	Citizen 10060, 10030, 10039, 10280, 10056, 10186, 10046, 10092, 11928	Clairtone 10185	Clarion 10180	Colt 11906	Concerto 10056	Conrowa 10156, 10145, 10264	Contec 10180, 10157, 10185	Craig 10180, 10161	Crosley 10054	Crown 10180, 10039	Curtis Mathes 10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166, 10466, 11347, 10039, 10056, 11147, 10016, 11919	CXC 10180	Daewoo 10154, 10451, 10180, 10030, 10178, 11651, 10474, 10003, 10628, 10032, 11150, 10092, 11928, 10627, 10700, 10056, 11909, 10170, 10391, 10623, 10019, 10672, 10039	Daytron 10019	Dayu 10391	Dell 11080	Denon 10145, 10511	Dumont 10017, 10019	Durabrand 10463, 11150, 10018, 10052, 10170, 10178, 10171, 11034, 10003	Dwin 10774, 10720	ECE 10037	Electroband 10000, 10185	Electrohome 10381	Elektra 10017, 11661
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Audio Amplifiers

Accuphase 30382
 Acurus 30765
 Adcom 31100, 30577
 Aiwa 30406
 AudioSource 30011
 Bel Canto Design 31583
 Bose 30674
 Carver 30269
 Classe 31461, 31462
 Curtis Mathes 30300
 Denon 30160
 Durabrand 31561
 GE 30078
 Harman/Kardon 30892
 JVC 30331
 Kenwood 30356
 Korsun 31483
 Left Coast 30892
 Lennox 31561
 Linn 30269
 Logitech 31408
 Luxman 30165
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 Marantz 30892, 30321, 30269
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 Nakamichi 30321
 NEC 30264
 Optimus 30395, 30300
 Panasonic 30521, 30308
 Parasound 30246
 Philips 30892, 30269
 Pioneer 30013, 30300
 Polk Audio 30892, 30269
 PS Audio 31523
 RCA 30300
 Realistic 30395
 Sansui 30321
 Shure 30264
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 Soundesign 30078, 30211
 Technics 30521, 30308
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Audio Amp/Tuners

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 Adcom 31616, 30616, 31617
 Aiwa 31405, 30158, 30189, 31243, 31089, 31388, 30121, 30405, 31321, 31641, 31347
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 Curtis 31596
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 Dynamic Bass 30360
 Emerson 30424, 30255
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 Fosgate 31487
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 Americast 00899
 Antromix 0207, 00022
 Archer 00797, 00207, 00153, 00022
 Belcor 00056
 Bell & Howell 00014
 Bell South 00899
 Cable Star 00056
 Cabletenna 00022
 Cableview 00022
 Century 00153
 Citizen 00315, 00153
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 ClearMax 00883
 Colour Voice 00025, 00031
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 Contec 00019
 Coolmax 00883
 Daeryung 01877, 00877, 00477, 00008
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Dumont 00637
 Eastern 00002
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 Funai 00019
 Garrard 00153
 GC Electronics 00207, 00056
 Gehua 00476
 Gemini 00797, 00015
 General Instrument 00476, 00810, 00276, 00093, 00014, 00011, 00015
 Global 01327
 GMI 00015, 00797
 GoldStar 00144, 00040
 Goodmind 00797
 Hamlin 00009, 00273, 00034, 00020, 00259
 Hitachi 00014, 00011
 Hytex 00007
 Jasco 00015, 00315, 00153
 Jebsee 00400
 Jerrold 00476, 00810, 00276, 00003, 00012, 00014, 00011, 00015
 Leon 00015
 LG 00144, 00040
 Linsay 00440
 Magnavox 00027
 Motorola 00476, 00810, 00276, 01254, 01106, 01376
 Movie Time 00156, 00063
 MS 00015
 Novaplex 00618
 NSC 00063, 00156
 Oak 0019, 00007
 Optimus 00021
 Pace 01877, 00237
 Panasonic 00000, 00008, 00107, 00040, 00021
 Panther 00637
 Paragon 00000
 Philips 00317, 00027, 00025, 00153, 00013, 00031, 01305
 Pioneer 01877, 00877, 00144, 00533, 01021
 Popular Mechanics 00400
 Pulsar 00000
 Quasar 00000
 RadioShack 00015, 00883, 00797, 00315
 RCA 00021
 Realistic 00207
 Recoton 00400
 Regal 00279, 00273, 00259, 00020
 Regency 00002
 Rembrandt 00011
 Runco 00000
 Samsung 00000, 00144, 00040
 Scientific Atlanta 01877, 00877, 00477, 00008, 00017
 Seam 00510
 Signal 00040, 00015
 Signature 00011
 SL Marx 00040
 Sony 01006
 Sprucer 00021
 Starcom 00003, 00014, 00015
 Stargate 00015, 00797, 00040
 Starquest 00015
 Supercable 00276
 Supermax 00883
 Sylvania 00001
 Tandy 00258
 Telexview 00040
 Texscan 00001
 TFC 00310
 Timeless 00040
 Tocom 00012, 00013

Torx 00003
 Toshiba 00000
 Trans PX 00276, 00153, 00315
 Tristar 00883
 TS 00003
 Tusa 00015
 TV86 00063
 Unika 00207, 00153, 00022
 United Artists 00007
 Universal 00153, 00056, 00207, 00022, 00191
 V2 00883
 Viewmaster 00883
 Viewstar 00063, 00027, 00258
 Vision 00883
 Vortex View 00883
 Zenith 00000, 00525, 00899
 Zentek 00400

CD Players

ADC 30018
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 Aiwa 30157, 30124, 30012
 Akai 30156
 Audio Alchemy 30194
 Audio-Technica 30170
 BSR 30245, 30194
 Burmester 30420
 California Audio Labs 30029, 30303
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 Carver 30157, 30437, 30179
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 DKK 30000
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 Luxman 30093
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 Magnavox 30157, 30305
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 MCS 30029, 30043
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 Mission 30157
 MTC 30420, 30625
 Nakamichi 30147
 NEC 30043, 30234
 Nikko 30174, 30170, 30164, 30625
 NSM 30157
 Onkyo 30868, 30101
 Optimus 31063, 30000,

(cont...)

2. Enter "993" and then press the mode key for the device you want to control volume (for example, AMP). The LED blinks twice. Now when you press "VOL+", "VOL-" or "MUTE", the selected device (for example, AMP) will control the volume regardless of the current mode.

Unlocking All Volume Control (Restoring Global Unlock)

1. Press and hold "SETUP" until the red LED blinks twice, then release.
2. Enter "993" and then press "VOL+". The LED blinks four times. Volume is independently controlled for all programmed devices.

Unlocking a Single Device's Volume Control

1. Press a device key (AMP, SAT, TNR, CD, AUX and DVD).
2. Press and hold "SETUP" until the red LED blinks twice, then release.
3. Enter "993" and then press "VOL-", The LED blinks four times. Volume is independently controlled for the selected devices.

System Design

A macro can be used to control a home theatre operation, to set a favorite channel, or for other multiple functions you would like to control with one key press. You can use any key to activate a macro. Moreover, each Macro Key can hold up to 32 key presses. You can program a macro that will operate regardless of what mode you are in, or one that will only operate when you are in a specific mode.
 NOTE: Programming a new macro over an existing one will erase the original macro.

Programming a Mode-Independent Macro:

1. Press and hold "SETUP" until the red LED blinks twice, then release.
2. Press "995". The LED will blink twice.
3. Press the key you want to use to activate your macro (Power, any unused key, etc.).
4. Enter the series of commands you want the macro to execute (up to 32 commands).
5. Press and hold "SETUP" until the red LED blinks twice, then release.

Now, when you press the Macro key, the remote will send the series of commands you have entered, regardless of what mode you are in. For example, you could program the Macro key to turn on both your TV and cable box and select a particular channel.

To clear the macro, repeat steps 1-5 above, but do not enter a series of commands at step 4.

Programming a Mode-Dependent Macro:

1. Press a device key (AMP, SAT, TNR, CD, AUX and DVD).
2. Press and hold "SETUP" until the red LED blinks twice.
3. Press "978". The LED will blink twice.
4. Press the key you want to use to activate your macro (Power, any unused key, etc.).
5. Enter the series of commands you want the macro to execute (up to 32 commands).
6. Press and hold "SETUP" until the red LED blinks twice, then release.

Now, when you press the Macro key, the remote will send the series of commands you have entered, but only if you are in the mode you selected in step 1. For example, you could program the Macro key to turn on both your TV and cable box and select a particular channel, but only if you are in TV mode. If you are in DVD mode, this key will do nothing.

(cont...)

System Design

Clearing a Mode-Dependent Macro:

1. Press and hold "SETUP" until the red LED blinks twice, then release.
2. Press "978".
3. Press the device key where you programmed the macro (AMP, SAT, TNR, CD, AUX and DVD).
4. Press the macro's activation key.
5. Press and hold "SETUP" until the red LED blinks twice, then release.

Using Learning

The A-BUS™ Universal Remote includes a learning feature so you can add functions that are unique to your home entertainment devices (e.g. VCR Tracking Up or Down). However, there are some considerations:

Learning Precautions

- Your original remote controls must be in working order for Learning to work properly.
- Learned keys are mode specific, so each one can store a unique function for each mode.
- Learned keys can be used in macros (see Using Macros).
- Do not use the following keys for learning : Device Keys or SETUP Key.
- Learning capacity is approximately 16 to 25 keys, depending on the code being learned.
- Certain device codes are not learnable including multi-frequency types, some high frequency ones, and other unusual formats.
- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.

NOTE: Please have your original remote controls handy before programming learning.

Programming a Learned Key

NOTE: If more than 10 seconds pass between key presses, the remote exits programming.

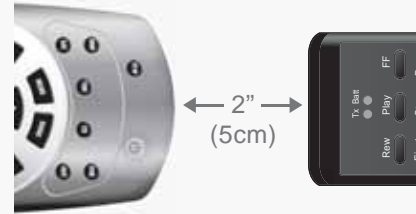
1. Press and hold "SETUP" until LED flashes twice.
2. Press "975".
3. Press a device key once (i.e., AMP, SAT, TNR, CD, AUX and DVD) to assign a mode for learning.
4. Place the A-BUS™ Universal Remote head-to-head about 2" (5cm) apart from original remote control. Also locate the key (on your original remote control) that will serve as the teaching function.
5. On the A-BUS™ Universal Remote, press a key where the learned function will be stored.
6. On the original remote, press and hold the key to be learned. The A-BUS™ Universal Remote's LED will turn off. Continue holding the key on the original remote until the A-BUS™ Universal Remote's LED blinks twice.

NOTE: If the LED displays one long blink, a learning error has occurred. Try repeating this step again until a successful capture occurs. If the function is still not captured, press and hold "SETUP" to exit programming and review the "Learning Precautions" above. If needed, also see "Troubleshooting". After review, start programming again at step 1.

7. Repeat steps 2 through 6 for another device and/or key or press and hold "SETUP" to exit programming.

(cont...)

Using Learning



Deleting a Single Learning Key

1. Press and hold "SETUP" until the LED flashes twice. *NOTE:* If more that 10 seconds pass between key presses, the remote exits programming.
2. Press "976".
3. Press the device key once (i.e., AMP, SAT, TNR, CD, AUX and DVD).
4. Press the key containing the learned function to be deleted twice. The remote LED blinks twice.
5. Repeat steps 2 through 4 for another key or press and hold "SETUP" to exit programming

Deleting All Learned Keys in a Specific Mode

1. Press and hold "SETUP" until the LED blinks twice. *NOTE:* If more than 10 seconds pass between key presses, the remote exits programming.
2. Press "976".
3. Press a device key twice (i.e., AMP, SAT, TNR, CD, AUX and DVD) to clear all the learned keys for that mode. The LED blinks twice.
4. Repeat step 3 for another device key or press and hold "SETUP" to exit programming.

Troubleshooting

PROBLEM: LED does not blink when you press a key.
SOLUTION: Replace battery with two new AA alkaline batteries.

PROBLEM: LED blinks when you press a key, but device does not respond.
SOLUTION: Make sure the remote is aimed at your device and is not more than 15 feet (4.5m) away.

PROBLEM: LED blinks one long blink.
SOLUTION: An entry error has occurred (for example, wrong key). Try entry sequence again.

PROBLEM: Remote does not control devices or commands are not working properly.
SOLUTION: Try all listed codes for the device. Make sure the device operates with an infrared remote control.

PROBLEM: "CH+", "CH-", and LAST do not work for your RCA TV.
SOLUTION: Due to RCA's design from 1983 to 1987, only the original remote control will operate these functions.

PROBLEM: No volume on a device.
SOLUTION: See "Changing Volume Lock"

PROBLEM: Channels do not change properly.
SOLUTION: If the original remote control required you to press Enter to change channel, press Enter on this remote after entering the channel number.