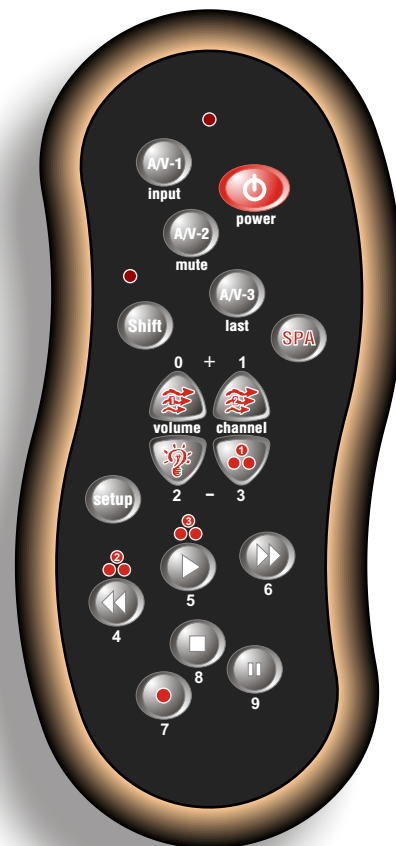


HYDROQUIP™

INFRARED REMOTE CONTROL

OPERATION MANUAL

THE **SMART CHOICE**™



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INTRODUCTION

Congratulations on the purchase of your infrared remote control. The following instructions have been prepared to provide you with everything you need to know how to use and enjoy your infrared remote control.

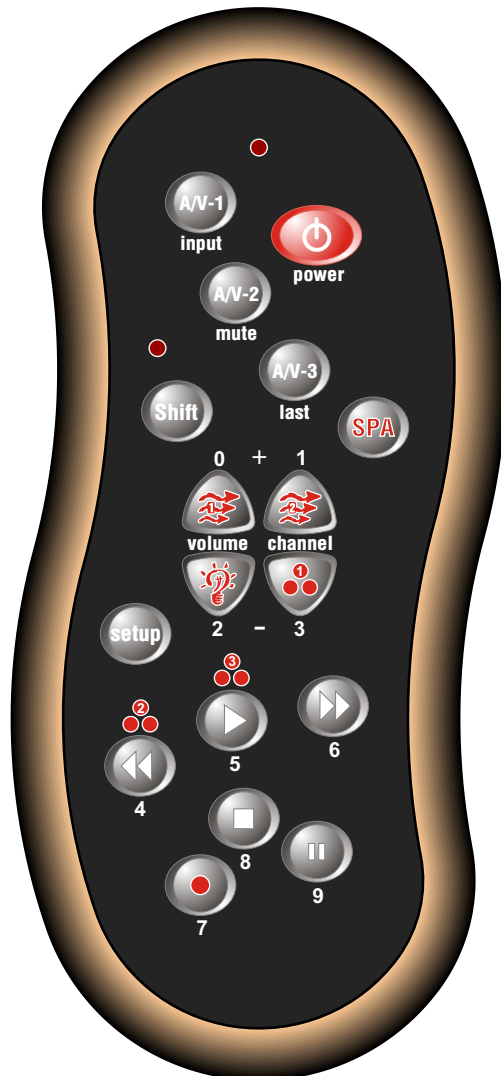
Please be sure to read all applicable instructions carefully to ensure proper use of the remote control.

Your Infrared Remote can control your Spa plus any 3 of the following devices:

- Audio equipment (CD, Tuner, Amplifier, and Audio Cassette)
- Video equipment (TV, VCR, DVD)
- Home Automation

Your Infrared Remote includes 17 keys (up to 29 functions with dual-function keys) and the following features:

- Preprogrammed universal codes
- Quick Search mode
- Learning mode
- Reassignable device keys
- Ergonomic design
- Floatable
- 3 “AAA” batteries in watertight compartment (remote control retains memorized codes even after batteries have been changed)



KEY CHART



LED flashes any time a key is pressed to let you know a signal is being sent and the control is working.

+



Use **channel +/-** to change channels on selected device (or control **Pump 2** and **Auxiliary 1** when in SPA mode).

-



Press **power** to turn on and off selected device.



Use **Rewind, Play** or **Fast Forward** in VCR, CD or DVD mode (or control **Auxiliary 2** and **Auxiliary 3** when in SPA mode).



Use **setup** for all programming operations.



Press **A/V 1, A/V 2, A/V 3** or **SPA** to select a home entertainment device.



+



Use **volume +/-** to increase or decrease the sound volume (or control **Pump 1** and **Light** when in SPA mode).



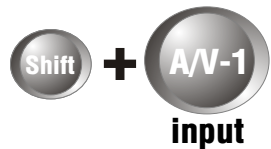
-

KEY CHART (cont.)



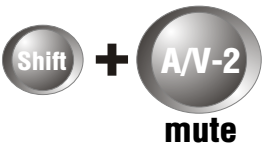
Press and hold down **Shift** and press the following keys to activate that keys dual-function (**LED** above Shift key will illuminate).

*Keys with associated numbers can be pressed to access channels on selected devices while holding down the **Shift** key.*



input

Press **input** once to switch the input of selected device.



mute

Press **mute** once to turn sound off/on.



last

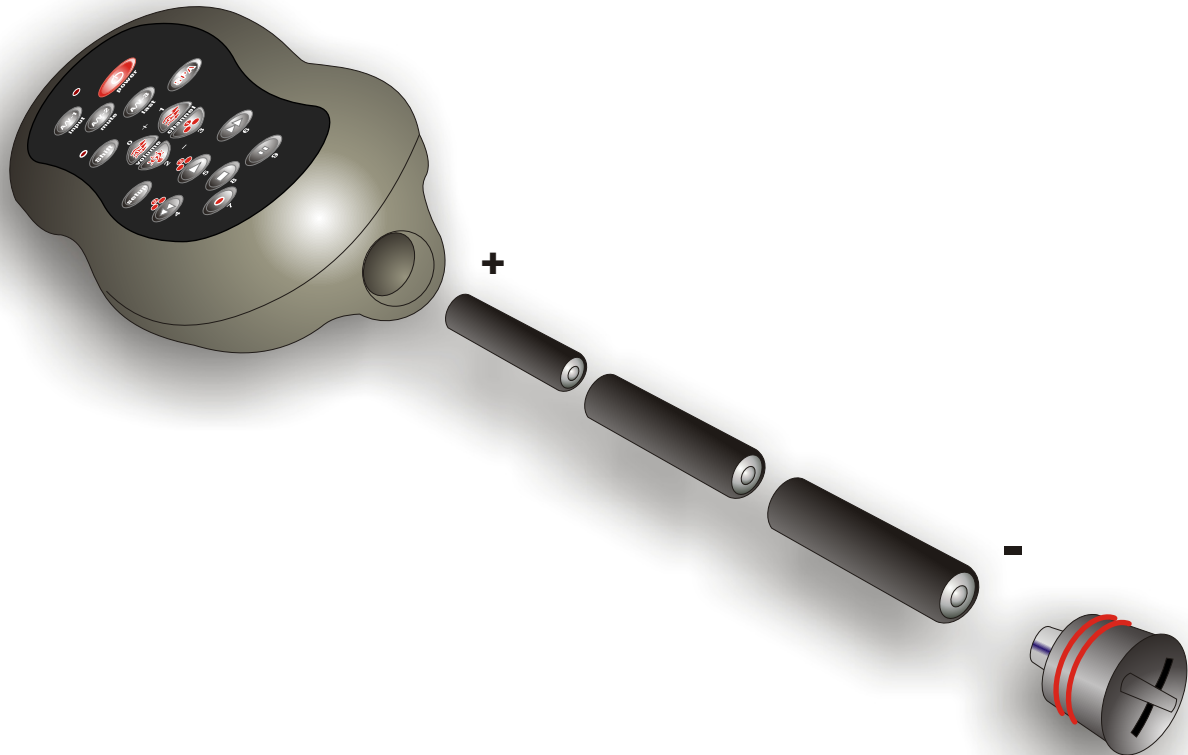
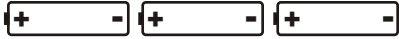
Press **last** once to recall last channel and to page back one screen in the main menu.

Timeout: 10 seconds after pressing a key, the remote will exit programming mode or current state you are in.

* **Record Safety:** To record a program, press Record twice. This feature is to prevent accidental recording (this applies to VCR and AUDIO mods only).

REPLACING BATTERIES

Your remote control is powered by three AAA batteries.



1 - Unscrew and remove end cap and **AAA** batteries.

Note:

You can use a coin to unscrew end cap

2 - Insert new batteries, positive ends toward top of remote.

3 - Replace end cap ensuring waterproof gaskets are correctly positioned.

PROGRAMMING

Your Infrared Remote Control can control up to three different devices. Follow the procedures below for each device you want to control.

Default program codes:

A/V 1 - 0047 - RCA

A/V 2 - 0060 - RCA

A/V 3 - 1023 - Pioneer

Mode:	Code:
A/V 1	Code for TV
A/V 2	Code for VCR, Audio Cassette, DVD, LDP, DAT
A/V 3	Code for Amplifier, Tuner, Misc. Audio, CD, Home Automation
SPA	Code for SPA (0420)

Write down your setup code numbers below, for future reference.

Setup code numbers:

A/V 1

A/V 2

A/V 3

SPA **0** **4** **2** **0**

1 - Turn on device (e.g. VCR) and, if applicable, insert media (e.g. Video cassette).

Important:

Read steps 2-4 completely before proceeding. We recommend annotating the codes for the devices you wish to control prior to moving on to step 2.

2 - On the Remote, press mode key once (i.e. **A/V 1**, **A/V 2**, or **A/V 3**). Press and hold **setup** until LED blinks twice, then release key.

3 - Use the **code table** (at the end of this manual) to locate the brand and type of device. Enter the four-digit code for the device. If performed correctly, the LED will blink twice. *Be sure to press and hold **Shift** key while entering numbers (0-9).*

Note:

If LED did not blink twice, repeat steps 2-3 and enter code again.

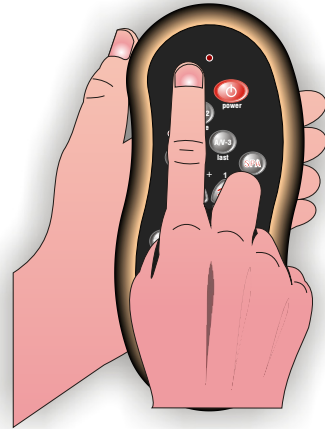
4 - Aim Remote at device and press Power once. It should turn off. If the device does not turn off, repeat steps 2-3 trying each code until you find one that works. If this still does not work, see "Searching For Your Code".

5 - Repeat above steps for each device to be controlled.

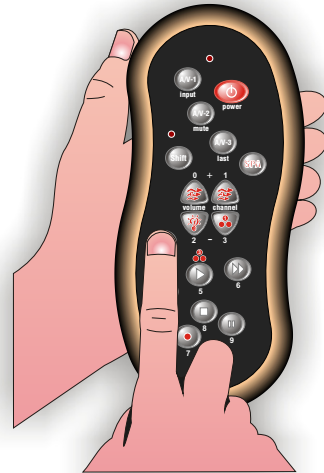
SEARCHING FOR YOUR CODE

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 mode key once (**A/V 1**, **A/V 2**, **A/V 3** or **SPA**).



-
- 2 - Press and hold **Setup** until LED blinks twice, then release key.

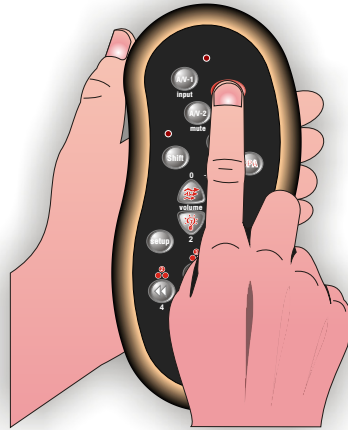


-
- 3 - Enter **9-9-1**, LED will blink twice. (Remember to press and hold **Shift** while entering numbers **0-9**).

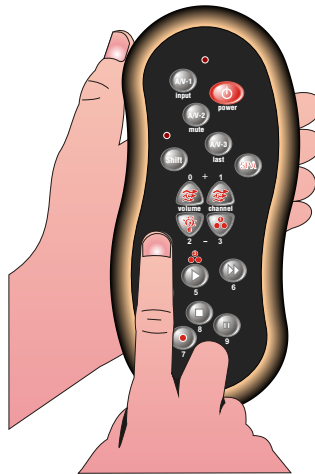


SEARCHING FOR YOUR CODE

- 4** - Aim remote control at device and slowly alternate between pressing **Power** and **A/V 1**. Stop when TV turns on.



-
- 5** - Press **Setup** once to lock in the code.



Note:

*Instead of pressing **Power**, you can use **0, 1, 2, 3**, channel +, volume +, Play and Stop.*

In Search mode the remote control will send IR codes from its library to the selected device, starting with the most popular codes first.

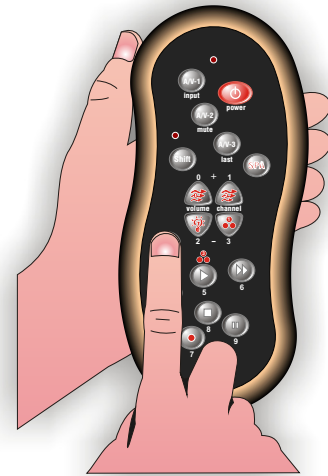
CHECKING CODES

If you have set up your remote control using the "Search For Your Code" procedure, you may want to know which four-digit code is operating your equipment.

- 1 - Press mode key once (**A/V 1**, **A/V 2**, or **A/V 3**).



- 2 - Press and hold **Setup** until LED blinks twice, then release key.

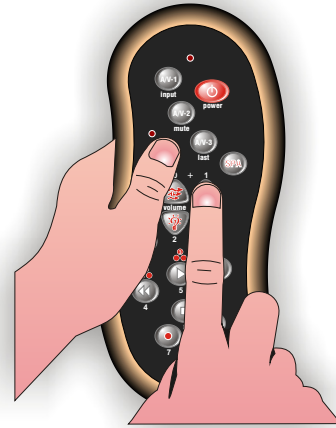


- 3 - Enter **9-9-1**, LED will blink twice. (Remember to press and hold **Shift** while entering numbers **0-9**).

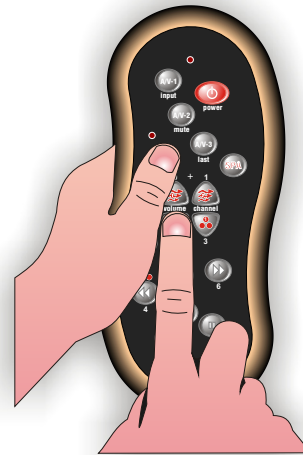


CHECKING CODES

- 4** - To view the first digit of the code, press **1** once. Wait 3-seconds, then count the LED blinks (e.g., 3 blinks = 3) and write down the number.



-
- 5** - Repeat step 4 three times for the remaining digits. *Using 2 for the second digit, 3 for the third digit, and 4 for the fourth.*



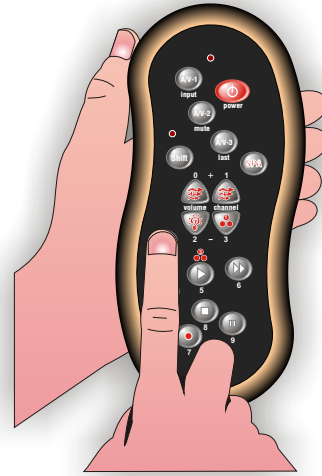
Note:
If a code digit is “0”, the LED will not blink.

LEARNING MODE

Your remote control has the ability to learn new functions from the original remote controls.

- 1** - Press and hold **Setup** until LED blinks twice to initiate Learning mode, then release.
- 2** - Enter **9-7-5**, LED will blink twice.
(Remember to press and hold **Shift** while entering numbers **0-9**).
- 3** - Press mode key (**AV 1**, **AV 2**, or **AV 3**).
- 4** - Hold teaching remote close to LED.
- 5** - On your Infrared Remote, press key to be learned. (LED flashes rapidly)
- 6** - Press and hold key to be taught until LED on Infrared Remote blinks twice.
- 7** - LED turns off.
- 8** - Repeat steps 3-7 as often as desired (up to limit of memory).
- 9** - Exit Learning mode by pressing **Setup**, or by time-out (if remote remains untouched for more than 10-seconds).

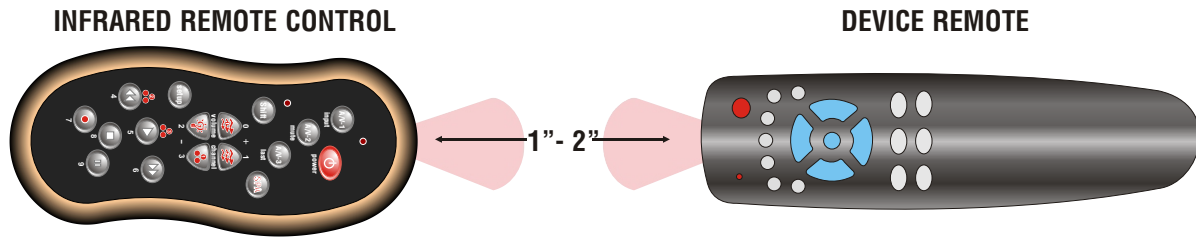
See next page for more information and illustration.



Note:

To optimize success, the learning process should be conducted in an area where there is a low level of IR emission. High levels of natural light or energy efficient fluorescent lights could interfere with this process. The source and target remote should be no more than 1"- 2" apart with the IR LEDs of the two units aligned.

LEARNING MODE



At step 6, one long blink indicates learning failure, which could be:

- Bad capture (*try again*)
- Memory full (*delete some other feature*)*
- Unlearnable code

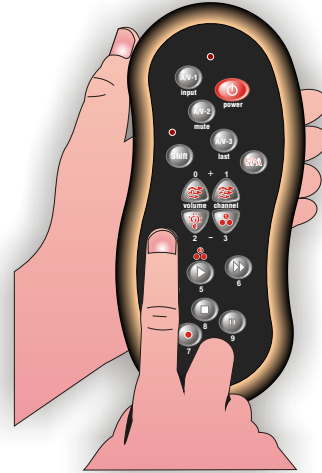
At step 2, one long blink indicates low battery or memory full (*i.e. The unit will not go into Learning mode if either of these conditions exist*).

* *If your memory is full, delete one function (Setup, 9, 7, 6; see "Delete Learned Function") or delete all (Setup, 9, 8, 1 or 9, 8, 0; see "Delete Functions & Codes*

DELETING FUNCTIONS

If your memory is full, you will need to delete one or more functions on your Infrared Remote. **To delete a learned function:**

- 1** - Press and hold **Setup** until LED blinks twice, then release key.



-
- 2** - Enter 9-7-6. LED will blink twice (Remember to press and hold **Shift** while entering numbers **0-9**).
 - 3** - Press mode key once (**A/V 1**, **A/V 2**, or **A/V 3**).
 - 4** - Now press twice on key you want to delete. Learned function reverts to original function.



The LED blinks two times, pauses then blinks two more times to let you know the programming has taken place. There will be two blinks and one long blink if there is a problem with the remote. The remote will revert to normal operation after 10-seconds.

Limitations:

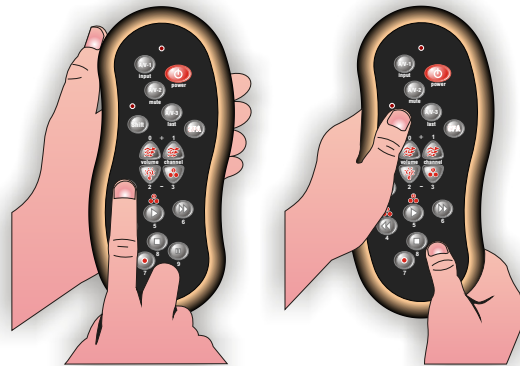
- 1** - There are certain device codes that are not learnable.
- 2** - The unit can learn only one code per key.
- 3** - All keys with the exception of **Shift**, **setup** and mode keys (**A/V 1**, **A/V 2**, **A/V 3**, **SPA**) can be learned on.

DELETING FUNCTION & CODES

If your memory is full, you will need to delete one or more functions from you Infrared Remote.

To delete all functions:

- 1 - Press and hold Setup until LED blinks twice, then release key.
- 2 - Enter **9-8-0**. LED will blink twice
*(Remember to press and hold **Shift** while entering numbers **0-9**).*

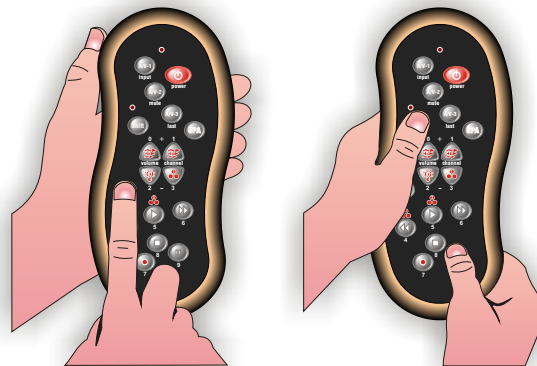


All learned functions are deleted and remote reverts to original functions.

The LED blinks two times, pauses then blinks two more times to let you know the programming has taken place.

To delete all functions and codes:

- 1 - Press and hold Setup until LED blinks twice, then release key.
- 2 - Enter **9-8-1**. LED will blink twice
*(Remember to press and hold **Shift** while entering numbers **0-9**).*



The remote resets all learned functions and codes.

The LED blinks two times, pauses then blinks two more times to let you know the programming has taken place.

REASSIGNING DEVICE KEYS

Your Infrared Remote control can be setup to control a second TV or VCR, or any combination of three home entertainment devices.

For example, to have your Infrared Remote control a TV and two VCR's, you will need to reassign the unused **A/V 3** key to operate the second VCR as follows:

1 - Press and hold **Setup** until LED blinks twice, then release key.



2 - Enter **9-9-2**. LED blinks twice
(Remember to press and hold **Shift** while entering numbers **0-9**).

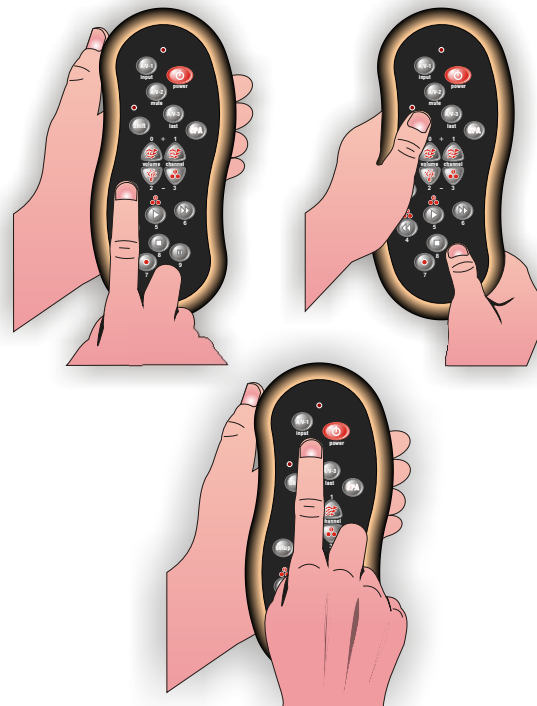


3 - Press **A/V 2** once, then **A/V 3** once.



4 - The **A/V 3** key is now ready to be programmed for your second VCR. See "Programming".

To reassign other device keys, repeat steps 1-4 by using the chart at right.



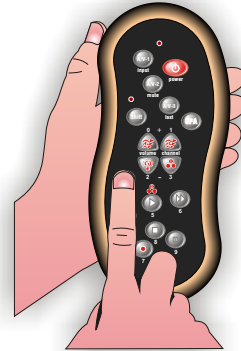
<u>Sequence</u>	<u>Perform</u>
A/V 1 as 2nd A/V 2 key: _____	Setup-9-9-2-A/V2-A/V1
A/V 1 as 2nd AV/ 3 key: _____	Setup-9-9-2-A/V3-A/V1
A/V 1 back to A/V 1: _____	Setup-9-9-2-A/V1-A/V1
A/V 2 as 2nd A/V 1 key: _____	Setup-9-9-2-A/V1-A/V2
A/V 2 as 2nd AV/ 3 key: _____	Setup-9-9-2-A/V3-A/V2
A/V 2 back to A/V 2: _____	Setup-9-9-2-A/V2-A/V2
A/V 3 as 2nd A/V 1 key: _____	Setup-9-9-2-A/V1-A/V3
A/V 3 as 2nd AV/ 2 key: _____	Setup-9-9-2-A/V2-A/V3
A/V 3 back to A/V 3: _____	Setup-9-9-2-A/V3-A/V3

CHANGING VOLUME LOCK

Your Infrared Remote is set to control the volume of a device through your TV while in A/V 1 or A/V 2 mode.

To change the Volume Lock to another mode:

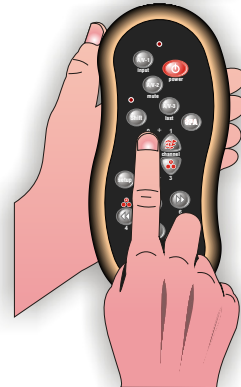
- 1** - Press **Setup** and hold until LED blinks twice, then release.



- 2** - Enter **9-9-3** and then press any mode key once (except **A/V 1**). LED will blink twice.



- 3** - Now, whenever you press **volume +/-** or **mute**, volume will be controlled by the mode you've chosen.



Note: In an Audio mode, you have separate control of your audio devices volume. If your TV is not remote controllable, or if you want volume to be controlled by a different device, you can change the Volume Lock setting to control the volume through a non-associated mode (e.g., through A/V 3 in TV (A/V 1) mode).

CHANGING VOLUME LOCK

To change the Volume Lock back to A/V 1 mode:

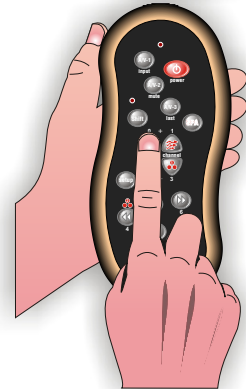
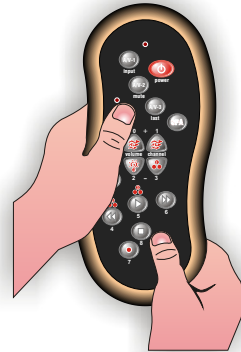
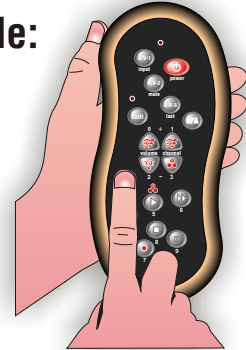
- 1 - Press **Setup** and hold until LED blinks twice, then release.



- 2 - Enter **9-9-3** and then press **A/V 1**. LED will blink twice.



- 3 - Now, whenever you press **volume +/-** or **mute**, volume will be controlled by your TV.



TROUBLESHOOTING

If you have problems with your remote control, refer to the list below:

-
- Problem:** LED does not blink when you press a key.
- Solution:** Replace the batteries with three new AAA alkaline batteries (*refer to page 5 of this manual*).
- Problem:** LED blinks when you press a key, but home entertainment device or SPA does not respond.
- Solution:** Make sure the Infrared Remote is aimed at your home entertainment device and is not farther than 15-feet away.
- Problem:** Infrared Remote does not control home entertainment devices or commands are not working properly.
- Solution:** Try all listed codes for the device brands being set up. Make sure they can be operated with an infrared remote control.
- Problem:** No volume on a second TV.
- Solution:** Follow instructions in “Changing Volume Lock”.

CODE TABLE

Program Codes for TV:

AOC	Fujitsu	Funai	Nikko
Admiral	0030, 0019	Futuretech	0180, 0179, 0171
Aiko	0093, 0463	GE	0180
Akai	0092		0047, 0051, 0451, 0093,
Alaron	0030	Gibraltar	0282, 0178, 0021, 0135,
Ambassador	0179	Goldstar	1147, 1347
American Action	0177	Gradiente	0017, 0030, 0019
Ampro	0180	Grunpy	0030, 0178, 0019, 0056
Anam	0751	Hallmark	0053, 0056
Audiovox	0180	Harley Davidson	0180, 0179
	0451, 0180, 0092, 0326,	Harmon/Kardon	0178
Baysonic	0180	Harvard	0179
Belcor	0019	Hitachi	0054
Bell & Howell	0154, 0016	Infinity	0180
Bradford	0180	Inteq	0145, 0056, 0151
Brockwood	0019	JBL	0054
Broksonic	0236, 0463	JCB	0017
CXC	0180	JVC	0054
Carnivale	0030, 0056	KEC	0000
Carver	0030	KTV	0053
Celebrity	0054	Kenwood	0180
Cineral	0000	LG	0180, 0030, 0039
Citizen	0451, 0092	LXI	0030, 0019
	0060, 0030, 0056, 0039,		0056
Concerto	0092	Logik	0047, 0054, 0154, 0156,
Contec	0056	Luxman	0178
Craig	0180	MGA	0016
Crosley	0180	MTC	0056
Crown	0054	Magnavox	0150, 0030, 0178, 0019
Curtis Mathes	0180, 0039	Majestic	0060, 0030, 0019, 0056
	0047, 0054, 0154, 0051,	Marantz	0054, 0030, 0179
	0451, 0093, 0060, 0030,	Matsushita	0016
	0145, 0056, 0016, 0039,	Megatron	0054, 0030
Daewoo	0166, 0466, 1147, 1347	Memorex	0250
	00451, 0019, 0039,		0178, 0145
Daytron	0092, 0623, 0624	Midland	0154, 0250, 0463, 0150,
Denon	0019		0178, 0056, 0016
Dumont	0145	Minutz	0047, 0017, 0051, 0039,
Dwin	0017, 0019	Mitsubishi	0135
Electroband	0720, 0774,	Motorola	0021
Emerson	0000	Multitech	0093, 0150, 0178, 0019
	0154, 0236, 0463, 0180,	NAD	0093
	0282, 0178, 0019, 0179,	NEC	0180
Envision	0039, 0177, 0623, 0624	NTC	0156, 0178, 0166
Fisher	0030		0030, 0019, 0056

CODE TABLE

Program Codes for TV:

Onwa	0180	Signature	0016
Optimus	0154, 0250, 0166	Sony	0000
Optonica	0093, 0165	Soundesign	0180, 0178, 0179
Orion	0236, 0463, 0179	Squareview	0171
Panasonic	0051, 0250	Starlite	0180
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0056, 0039, 0135, 1347	Supreme	0000
Philco	0054, 0463, 0030, 0145, 0019	Sylvania	0054, 0030
Philips	0054	Symphonic	0171
Pilot	0030, 0019, 0039	TMK	0178, 0056, 0177
Pioneer	0166	Tandy	0093
Portland	0019, 0039, 0092	Technics	0051, 0250
Prism	0051	Technol Ace	0179
Proscan	0047	Techwood	0051, 0056
Proton	0178, 0466	Teknika	0054, 0180, 0150, 0060, 0019, 0179, 0056, 0016, 0039, 0092
Pulsar	0017, 0019	Telefunken	0056
Quasar	0051, 0250, 0165	Toshiba	0145, 0156, 0060
RCA	0047, 0051, 0093, 0019, 0090, 0135, 1047, 1147, 1247, 1347	Totevision	0039
Radio Shack	0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039	Vector Research	0030
Realistic	0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039	Victor	0053
Runco	0017, 0030, 0603	Vidikron	0054
SSS	0180, 0019	Vidtech	0178, 0019
Sampo	0030, 0039	Wards	0054, 0165, 0030, 00178, 0021, 0019, 0179, 0056, 0016
Samsung	0060, 0039, 0178, 0019, 0056	White Westinghouse	0463, 0623, 0624
Samsux	0039	Yamaha	0030, 0019
Sansei	0451	Zenith	0017, 0463, 0016, 0092
Sansui	0463		
Sanyo	0154		
Scimitsu	0019		
Scotch	0178		
Scott	0236, 0180, 0178, 0019, 0179		
Sears	0047, 0054, 0154, 0156, 0178, 0179, 0056, 0171		
Semivox	0180		
Semp	0156		
Sharp	0093, 0165, 0039		
Shogun	0019		

CODE TABLE

Program Codes for TV:

AOC	Emerson	Funai	0180, 0179, 0171
Admiral		Futuretech	0180
Aiko		GE	0047, 0051, 0451, 0093, 0282, 0178, 0021, 0135, 1147, 1347
Akai	Envision	Gibraltar	0017, 0030, 0019
Alaron	Fisher	Goldstar	0030, 0178, 0019, 0056
Ambassador	Fujitsu	Gradiente	0053, 0056
American Action	0030, 0019	Grunpy	0180, 0179
Ampro	0093, 0463	Hallmark	0178
Anam	0092	Harley Davidson	0179
Audiovox	0030	Harmon/Kardon	0054
	0179	Harvard	0180
Baysonic	0177	Hitachi	0145, 0056, 0151
Belcor	0180	Infinity	0054
Bell & Howell	0751	Inteq	0017
Bradford	0180	JBL	0054
Brockwood	0451, 0180, 0092, 0326,	JCB	0000
Broksonic	0180	JVC	0053
CXC	0019	KEC	0180
Carnivale	0154, 0016	KTV	0180, 0030, 0039
Carver	0180	Kenwood	0030, 0019
Celebrity	0019	LG	0056
Cineral	0236, 0463	LXI	0047, 0054, 0154, 0156, 0178
Citizen	0180	Logik	0016
	0030, 0056	Luxman	0056
Concerto	0030	MGA	0150, 0030, 0178, 0019
Contec	0054	MTC	0060, 0030, 0019, 0056
Craig	0000	Magnavox	0054, 0030, 0179
Crosley	0451, 0092	Majestic	0016
Crown	0060, 0030, 0056, 0039,	Marantz	0054, 0030
Curtis Mathes	0092	Matsushita	0250
	0056	Megatron	0178, 0145
	0180	Memorex	0154, 0250, 0463, 0150, 0178, 0056, 0016
	0180		0047, 0017, 0051, 0039, 0135
Daewoo	0054	Midland	
	0180, 0039	Minutz	0021
Daytron	0047, 0054, 0154, 0051,	Mitsubishi	0093, 0150, 0178, 0019
Denon	0451, 0093, 0060, 0030,	Motorola	0093
Dumont	0145, 0056, 0016, 0039,	Multitech	0180
Dwin	0166, 0466, 1147, 1347	NAD	0156, 0178, 0166
Electroband	00451, 0019, 0039,	NEC	0030, 0019, 0056
		NTC	0092
		Nikko	0030, 0178, 0092

CODE TABLE

Program Codes for TV:

Onwa	0180	Signature	0016
Optimus	0154, 0250, 0166	Sony	0000
Optonica	0093, 0165	Soundesign	0180, 0178, 0179
Orion	0236, 0463, 0179	Squareview	0171
Panasonic	0051, 0250	Starlite	0180
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0056, 0039, 0135, 1347	Supreme	0000
Philco	0054, 0463, 0030, 0145, 0019	Sylvania	0054, 0030
Philips	0054	Symphonic	0171
Pilot	0030, 0019, 0039	TMK	0178, 0056, 0177
Pioneer	0166	Tandy	0093
Portland	0019, 0039, 0092	Technics	0051, 0250
Prism	0051	Technol Ace	0179
Proscan	0047	Techwood	0051, 0056
Proton	0178, 0466	Teknika	0054, 0180, 0150, 0060, 0019, 0179, 0056, 0016, 0039, 0092
Pulsar	0017, 0019	Telefunken	0056
Quasar	0051, 0250, 0165	Toshiba	0145, 0156, 0060
RCA	0047, 0051, 0093, 0019, 0090, 0135, 1047, 1147, 1247, 1347	Totevision	0039
Radio Shack	0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039	Vector Research	0030
Realistic	0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039	Victor	0053
Runco	0017, 0030, 0603	Vidikron	0054
SSS	0180, 0019	Vidtech	0178, 0019
Sampo	0030, 0039	Wards	0054, 0165, 0030, 00178, 0021, 0019, 0179, 0056, 0016
Samsung	0060, 0039, 0178, 0019, 0056	White Westinghouse	0463, 0623, 0624
Samsux	0039	Yamaha	0030, 0019
Sansei	0451	Zenith	0017, 0463, 0016, 0092
Sansui	0463		
Sanyo	0154		
Scimitsu	0019		
Scotch	0178		
Scott	0236, 0180, 0178, 0019, 0179		
Sears	0047, 0054, 0154, 0156, 0178, 0179, 0056, 0171		
Semivox	0180		
Semp	0156		
Sharp	0093, 0165, 0039		
Shogun	0019		

CODE TABLE

Program Codes for VCR:

Admiral	Harwood	Hughes Net. Sys.	0042
Adventura	Headquarter	JVC	0067, 0041
Aiko	Hitachi	Jensen	0041
Aiwa	0048, 0209	KEC	0037, 0278
Akai	0000	KLH	0072
American Action	0278	Kenwood	0067, 0041, 0038
American High	0037, 0000	Kodak	0035, 0037
Asha	0041	Lloyd's	0000
Audiovox	0278	Logik	0072
Beaumarck	0035	MEI	0035
Bell & Howell	0240	MGA	0240, 0043
Brocksonic	0037	MGN Technology	0240
Broksonic	0240	MTC	0240, 0000
CCE	0104	Magnasonic	0278
Calix	0209	Manavox	0035, 0039, 0081, 0000, 0149
Canon	0184, 0121, 0209, 0002	Magnin	0240
Carver	0072, 0278	Marantz	0035, 0081
Cineral	0037	Marta	0037
Citizen	0035	Matsushita	0035, 0162, 0454
Colt	0081	Memorex	0035, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0046, 1162, 1262
Craig	0278	Minolta	0042
	0037, 0278	Multitech	0000, 0072
Curtis Mathes	0072	NEC	0104, 0067, 0041, 0038
Cybernex	0037, 0047, 0240, 0072,	Nikko	0037
Daewoo	0271	Noblex	0240
Denon	0060, 0035, 0041, 0162	Olympus	0035
Dynatech	0240	Optimus	0037, 0048, 0104, 0162, 0454, 1062, 1162, 1262
Electrohome	0045, 0278	Orion	0184, 0209, 0002
Electroponic	0042	Panasonic	0035, 0162, 0225, 0454, 1162
Emerex	0000	Penney	0035, 0037, 0240, 0042, 0038
Emerson	0037	Pentax	0042
	0037	Philco	0035, 0209
Fisher	0032	Philips	0035, 0081
Fuji	0037, 0184, 0000, 0121,	Pilot	0037
Funai	0043, 0209, 0002, 0278	Pioneer	0067
GE	0047, 0104	Profitronic	0240
Garrard	0035, 0033	Proscan	0060
Go Video	0000	Protec	0072
Goldstar	0060, 0035, 0048, 0240	Pulsar	0039
Gradiente	0000	Quarter	0046
HI-Q	0526		
Harley Davidson	0037, 0038		
Harman/Kardon	0000		

CODE TABLE

Program Codes for VCR:

Quartz	0046
Quasar	0035, 0162, 0454, 1162
RCA	0060, 0035, 0048, 0240, 0042, 0149
Radio Shack	0000
Radix	0037
Randex	0037
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0046
Runco	0039
STS	0042
Samsung	0240, 0045
Samky	0048, 0039
Sansui	0000, 0067, 0209, 0041, 0271
Sanyo	0047, 0240
Scott	0184, 0045, 0121, 0043
Sears	0035, 0037, 047, 0000, 0042, 0104, 0046
Semp	0045
Sharp	0048
Shintom	0072
Shogun	0240
Singer	0072
Sony	0035, 0032, 0000, 0033
Sylvania	0035, 0081, 0000, 0043
Symphonic	0000
TMK	0240
Tatung	0041
Teac	0000, 0041
Technics	0035, 0162
Teknika	0035, 000037, 0000
Thomas	0000
Toshiba	0045, 0043
Totevision	0037, 0240
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045
Videosonic	0240
Wards	0060, 00047, 0081, 0240, 0000, 0042, 0072, 0149
White Westinghouse	0209, 0278
XR-1000	0035, 0000, 0072
Yamaha	0038

Zenith 0039, 0000, 0209, 0033

Program Codes for CD Player:

Aiwa	0157, 0124
Burmester	0420
California Audio Lab	0029
Carver	0157, 0179, 0437
DKK	0000
Denon	003, 0873
Emerson	0305
Fisher	0179, 0174
Garrard	0420, 0393
Genexxa	0032, 0305
Harmon/Kardon	0157, 0173
Hitachi	0032
JVC	0072
Kenwood	0028, 0037, 0190, 0681, 0826
Krell	0157
LXI	0305
Linn	0157
MCS	0029
MTC	0420
Magnavox	0157, 0305
Marantz	0029, 0157, 0180
Mission	0157
NSM	0157
Nikko	0174
Onkyo	0101, 0868
Optimus	0000, 0032, 0179, 0305, 0037, 0420, 0145, 0468, 0437
Panasonic	0029, 0303
Parasound	0420
Philips	0157, 0626
Pioneer	0032, 0305, 0468, 0244
Proton	0157
QED	0157
Quasar	0029
RCA	0305, 0053, 0764
Realistic	0179, 0420, 0180
Rotel	0157, 0420
SAE	0157
Sansui	0157, 0305
Sanyo	0179

CODE TABLE

Program Codes for CD Player:

Scott	0305
Sears	0305
Sharp	0037, 0180, 0861
Sherwood	0180
Sony	0000, 0185, 0490
Soundesign	0145
Tascam	0420
Teac	0420, 0393, 0174, 0180
Technics	0029, 0303
Victor	0072
Wards	0157, 0053
Yamaha	0036, 0187
Yorx	0461

Program Codes for Amplifiers:

Aiwa	0406
Carver	0269
Cutis Mathes	0300
Denon	0160
Harmon/Kardon	0892
JVC	0331
Linn	0269
Magnavox	0269
Marantz	0269
Panasonic	0308
Philips	0269, 0892
Pioneer	0013, 0300
Sony	0220, 0689
Technics	0308
Victor	0331
Wards	0013
Yamaha	0354

Program Codes for Tuners:

ADC	0531
Adcorm	0616
Aiwa	0158, 0189, 0121, 0405
Akai	0224
Capetronic	0531
Carver	0189, 0008, 0042, 0360,
Casio	0195
Clarinet	0195
Curtis Mathes	0080
Denon	0004
Emerson	0424

Fisher	0042, 0219, 0360
Garrard	0463, 0424
Harmon/Kardon	0110, 0189, 0891
JBL	0110
JVC	0074
Kenwood	0027, 0186, 0042, 0077
Koss	0424
LXI	0181
Linn	0189
Lloyd's	0195
MCS	0039, 0346
Manavox	0531, 0189, 0195, 0391
Marantz	0039, 0189
Modulaire	0195
NAD	0320
Nakamichi	0097, 0347
Onkyo	0135
Optimus	0531, 0670, 0186, 0042, 0177, 0181, 0219, 0738, 0801, 1023
Panasonic	0039, 0309
Penney	0195
Philips	0189, 0391
Pioneer	0531, 0014, 0150, 0630, 0080, 1023
Quasar	0039
RCA	0531, 0054, 0346, 0360, 0530
Realistic	0195, 0163, 0181
Sansui	0189, 0346
Sanyo	0219, 0801
Scott	0163, 0322
Sharp	0186
Sherwood	0491, 0502
Sony	0158, 0168, 0474
Soundesign	0670
Teac	0463, 0163
Technics	0039, 0309, 0208
Victor	0074
Wards	0158, 0014, 0189, 0080, 0054
Yamaha	0176, 0186
Yorx	0195
Zenith	0857

CODE TABLE

Program Codes for DVD Players:

Harmon/Kardon	0582
JVC	0558
Kenwood	0534
Magnavox	0503
Mitsubishi	0521
Onkyo	0503
Panasonic	0490
Philips	0503, 0539
Pioneer	0525, 0571
Proscan	0522
RCA	0522
Samsung	0573
Sony	0533
Technics	0490
Theta Digital	0571
Toshiba	0503
Yamaha	0490, 0545
Zenith	0503, 0591

Program Codes for Cassette Players:

Aiwa	0029, 0197
Carver	0029
Denon	0076
Harmon/Kardon	0182, 0029
JVC	0244, 0273
Kenwood	0070
Magnavox	0029
Marantz	0029
Onkyo	0135, 0282
Optimus	0027, 0220
Panasonic	0229
Philips	0029
Pioneer	0027, 0220, 009
Sansui	0029
Sony	0243, 0170, 0291
Technics	0229
Victor	0273
Wards	0027
Yamaha	0097, 0094

Program Codes for Home Automation:

GE	0240
Lutron	0597
One For All	0167
Radio Shack	0240

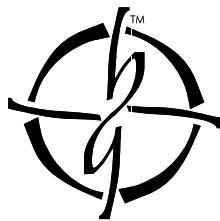
Security System	0167
Universak X10	0167
X10	0167

Program Codes for Misc. Audio:

Aiwa	0010, 0159, 0404
Fisher	0052
Harmon/Kardon	0477
JBL	0477
JVC	0073
Jerrold	0459, 0520
RCA	0056
Scientific Atlanta	0460
Sony	0010, 0159
Starcom	0459

Program Codes for LD Players:

Denon	0059
Mitsubishi	0059
NAD	0059
Pioneer	0059
Sony	0193, 0201



HYDROQUIPTM

13345 Estelle Street • Corona, CA 92879-1881

Email: hq@hydroquip.com • Internet: <http://www.hydroquip.com/>

Telephone: 909.273.7575 • Fax: 800.332.7190