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HR085

REMOTE CONTROL

LEARNING GUIDE



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Technical Assistance

If you have any questions about your McIntosh product or any of its accessories, contact your McIntosh dealer who is familiar with your equipment, and any other brands that may be part of your system. If you or your dealer need additional help concerning a suspected problem, you can receive technical assistance for all McIntosh products at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903

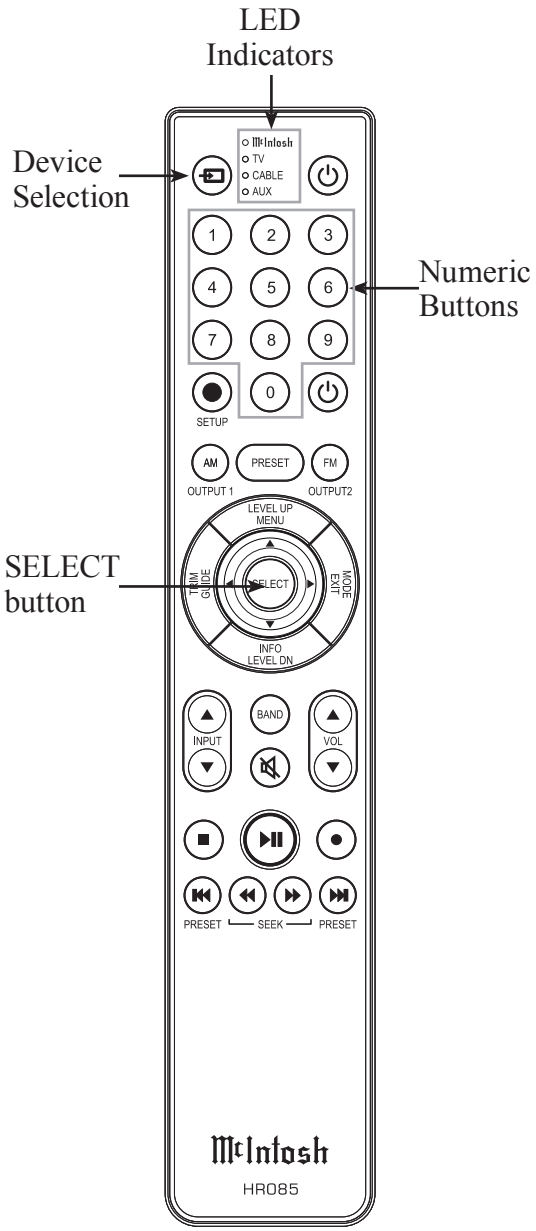
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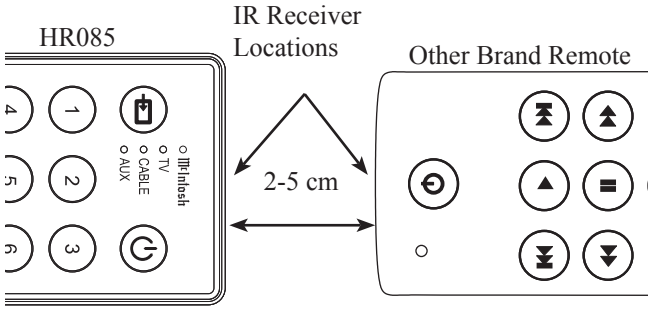
Introduction

The HR085 remote control is supplied with McIntosh Preamplifiers, Integrated Amplifiers, and Tuners.



Signal Strength Test

Before beginning code changes, perform a signal strength test between the HR085 remote, and the other-brand remote being used.
Position the remote controls with the IR sensors facing each other to allow signals to be sent and received between controllers. Press and hold the Device Selection button on the HR085 for roughly four seconds, and the McIntosh LED will flash twice. Using the numeric buttons on the HR085, enter 9, 1, 0, 0, then press and hold any of the buttons on the separate remote.
One or more of the Device LED's on the HR085 will illuminate. All four LED's lit indicates that the signal strength is good, while one indicates a weak signal. After the optimal position has been determined, do not move either remote control until the "learning" process has been completed. Press the Device Selection button to exit programming mode, and proceed to Learning Commands.



Remote Control Commands

Learning Commands

All buttons on the HR085 remote, excluding the Device Selection button, may be used to store commands.

Press and hold the Device Selection button for roughly four seconds to make the McIntosh LED flash twice. Using the numeric buttons on the HR085, enter the programming code for the device in which the learning commands will be stored.

Device Name	Code Number
TV	1004
CABLE	2004
AUX	3004

In the provided example, the ▶Play and ⏭Next transport commands will be learned from the other brand of remote, and stored in the HR085 AUX device.

Press and hold the Device Selection button until the McIntosh LED flashes twice. Use the numeric buttons on the HR085 to enter the programming code for the desired device. The LED of the selected device will flash twice, followed by all four LED's illuminating.

On the HR085, press and hold the ▶Play button, and the three device LED's will illuminate, then do the same on the other brand remote until the TV, and CABLE LED's extinguish on the HR085. Just the AUX LED will be illuminated for a moment before all LED's light up to indicate that the HR085 is ready to learn additional commands.

Press the ⏭Next button on the HR085, and three LED's will light up. Press and hold the ⏭Next button on the other remote until the LED's on the HR085 extinguish. When the AUX LED illuminates, quickly press the Device Selection button until the AUX LED flashes twice. This will store the two learned commands in the remote. Pressing the Device Selection button twice will allow newly learned commands to be used.

Deleting Learned Commands

To delete previously learned commands for TV, CABLE, or AUX, press and hold the Device Selection button for four seconds until the McIntosh LED blinks twice. Use the numeric buttons on the HR085 to enter the code number for TV, CABLE, or AUX. The LED's of whichever device entered will flash twice, indicating that the stores commands have been deleted.

Device Name	Code Number
TV	1009
CABLE	2009
AUX	3009

Remote Control Codes

To change the HR085 from Normal to Alternate codes, press and hold the Select button, and the number 2 button simultaneously until the Device Select McIntosh LED flashes twice.

Refer to the Setup section in the owners manual of your McIntosh unit to change the units settings over to Alternate codes.

Use the volume buttons on the remote control to verify proper operation using the Alternate codes.

To change the HR085 from Alternate to Normal, hold the Select and number 1 buttons on the remote simultaneously. After about eight seconds, the McIntosh LED will flash once.

Resetting the HR085 Remote Control

To remove all changes made to the Device settings McIntosh, TV, CABLE, and AUX, press and hold the Device button until the McIntosh LED flashes twice. Use the numeric buttons on the HR085, entering the code 9999. The McIntosh LED will flash twice, and the HR085 Device settings will be reset.

HR085 Hex Codes

The hex code table on the following page is intended to be used by McIntosh dealers and professional A/V custom-installers. Most McIntosh models utilize Normal remote control codes,

Before implementing hex code procedures, press and hold the Device button until the McIntosh LED flashes twice.

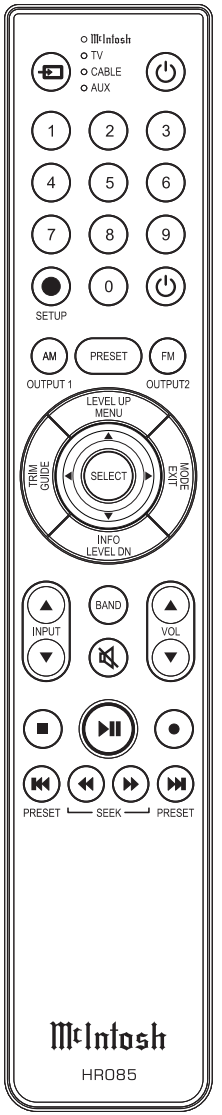
Refer to page 2 for Alternate Code instructions.

The HR085 has additional control codes used in previous McIntosh remote controls. These stored control codes can be used to learn the commands of other remote controls to program.

For example, to learn the control code for selection of the DVD input on the HR070/071 remote, begin by holding the SELECT, and number 3 buttons simultaneously for about eight seconds, or until the McIntosh LED flashes twice. To learn the DVD input command, pressed the number 8 to send out the IR Command to select the DVD input.

HR085 Hex Codes *continued*

	HR085 Remote Control	Normal Codes (Page 1)	Alternate Codes (Page 2)	HR070/71 Additional Codes	Normal Codes (Page 3)	Alternate Codes (Page 4)	HR072 Additional Codes	Normal Codes (Page 5)	Alternate Codes (Page 6)	HR073 Additional Codes	Normal Codes (Page 7)	Alternate Codes (Page 8)
Code #	PUSH-BUTTON	HEX CODES		PUSH-BUTTON	HEX CODES		PUSH-BUTTON	HEX CODES		PUSH-BUTTON	HEX CODES	
1		00H	80H									
2	PLAY	01H	81H									
3	NEXT	02H	82H									
4	BACK	03H	83H									
5	STOP	04H	84H									
6		05H	85H	1 -(ACC "ON")	05H	85H	1 -(ACC "ON")	05H	85H	1 -(ACC "ON")	05H	85H
7		06H	86H	2-(ACC "OFF")	06H	86H	2-(ACC "OFF")	06H	86H	2-(ACC "OFF")	06H	86H
8		07H	87H	3-(PAUSE)	07H	87H	3-(PAUSE)	07H	87H	3-(PAUSE)	07H	87H
9		08H	88H	4-(SAT)	08H	88H				4-(CDR)	08H	88H
10		09H	89H	5-(TV)	09H	89H				5-(SERVER)	09H	89H
11		0AH	8AH	6-(SERVER)	0AH	8AH	4-(SERVER)	0AH	8AH	6-(MM)	0AH	8AH
12		0BH	8BH	7-(DVR)	0BH	8BH				7-(INPUT DOWN)	0BH	8BH
13		0CH	8CH							8-(INPUT UP)	0CH	8CH
14		0DH	8DH	8-(DVD)	0DH	8DH	5-(DVD)	0DH	8DH	9-(MC)	0DH	8DH
15	TRIM	0EH	8EH									
16	PRESET	0FH	8FH									
17		10H	90H	9-(CD)	10H	90H	6-(CD)	10H	90H	SETUP-(CD)	10H	90H
18		11H	91H	SETUP-(CD2)	11H	91H	7-(CD2)	11H	91H	0-(DVD)	11H	91H
19		12H	92H	0-(TUNER)	12H	92H	8-(TUNER)	12H	92H	PWROFF-(TUNER)	12H	92H
20		13H	93H	PWROFF-(REC)	13H	93H				AM-(D/A)	13H	93H
21		14H	94H				9-(D/A)	14H	94H	PRESET-(REC MONITOR)	14H	94H
22		15H	95H				SETUP-(MM)	15H	95H			
23		16H	96H				0-(MC)	16H	96H			
24		17H	97H	AM-(AUX)	17H	97H	PWROFF-(AUX)	17H	97H	FM-(AUX Note 1)	17H	97H
25	LEFT	18H	98H									
26	UP	19H	99H									
27	RIGHT	1AH	9AH									
28	DOWN	1BH	9BH									
29	SELECT	1CH	9CH									
30		1DH	9DH	INFO-(INFO)	1DH	9DH	INFO-(INFO)	1DH	9DH	INFO-(INFO)	1DH	9DH
31		1EH	9EH	GUIDE-(DISP)	1EH	9EH	GUIDE-(DISP)	1EH	9EH	GUIDE-(DISP)	1EH	9EH
32		1FH	9FH	MENU-(MENU)	1FH	9FH	MENU-(MENU)	1FH	9FH	MENU-(MENU)	1FH	9FH
33		40H	C0H									
34		41H	C1H									
35	VOLUME UP (Note 1)	42H	C2H									
36	VOLUME DOWN (Note 1)	43H	C3H									
37	LEVEL UP	44H	C4H									
38	LEVEL DOWN	45H	C5H									
39	MUTE (Note 1)	46H	C6H									
40	MODE	47H	C7H									
41	BLUE BTN (SETUP)	48H	C8H									
42		49H	C9H				AM-(REC MONITOR)	49H	C9H			



Note 1: Punch through to McIntosh key definition and function

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