





Introduction

The HR085 Remote Control is supplied with McIntosh Preamplifiers, Integrated Amplifiers and Tuners.

The HR085 Remote Control has the ability to learn and store Remote Control (RC) Commands from three non-McIntosh Components. The RC Commands stored in the HR085 can be accessed by using the “DEVICE” Push-button together with the LED Indicators to select one of the three (TV, CABLE or AUX). Refer to figure 1 and the instructions starting on page 3 on “How to Learn and Store Commands”.

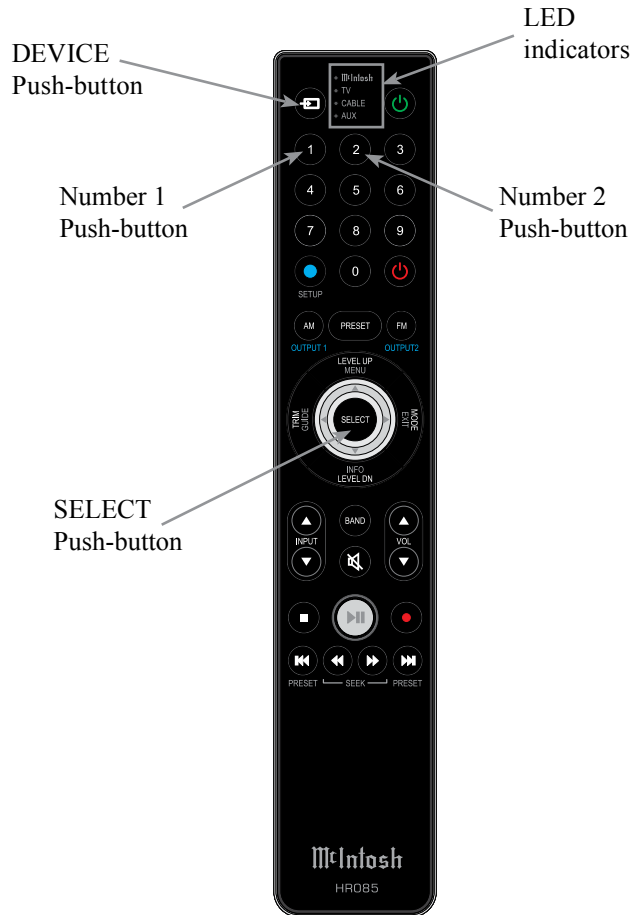


Figure 1

Remote Control Codes

The HR085 Remote Control has been factory configured for the “Normal” McIntosh Control Codes used with most models. There is a set of “Alternate” McIntosh Control Codes for the HR085 Remote Control. “This Alternate Control Code” is to be used when there are two McIntosh Models (A/V Control Center, Integrated Amplifier or Preamplifier) in the same location at the same time. This will prevent the HR085 Remote Control from adversely affecting the operation of the units. Refer to figure 1 when performing the steps below.

Note: Refer to the “Setup” Section of the Owner’s Manual supplied with the A/V Control Center, Integrated Amplifier and/or Preamplifier for additional information about using the “Alternate Control Codes”.

To change the HR085 from “Normal” to “Alternate” Control Codes perform the following steps:

1. To change from the “Normal” to “Alternate” Control Codes, press and hold the SELECT and number 2 Push-buttons simultaneously (for about 8 seconds) until the Device Select **McIntosh** LED flashes twice.
2. Referring to the SETUP Steps outlined in the McIntosh Model Owner’s Manual, change one of the two Models over to the “Alternate” Codes.
3. Press the VOLume ▲Up/ ▼Down Push-button on the Remote Control to verify proper operation using the Alternate Codes.

To change the HR085 from “Alternate” to “Normal” Control Codes perform the following steps:

1. To change from the “Alternate” to “Normal” Control Codes, press hold the SELECT and number 1 Push-buttons simultaneously (for about 8 seconds) until the Device Select **McIntosh** LED flashes once.

2. Referring to the SETUP Steps outlined in the McIntosh Model Owner’s Manual change one of the two Model over to the “Normal” Codes.
3. Press the VOLume ▲Up/ ▼Down Push-button on the Remote Control to verify proper operation using the Normal Codes.

Technical Assistance

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

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Preliminary Step

A successful learning process requires adequate IR Signal Strength, both sending and receiving, from the McIntosh HR085 and the other Brand Remote Control. Please make sure the Remote Controls have fresh batteries installed and functioning correctly with their respective component(s) before proceeding.

Signal Strength Test

First perform the following test with the HR085 Remote Control and other Brand Remote Control before attempting to have the HR085 learn commands from them.

1. Referring to figure 2, position the remote controls as illustrated.

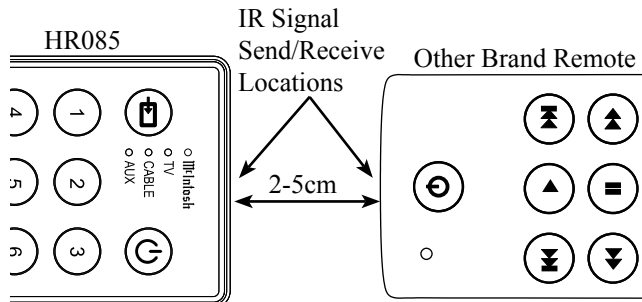


Figure 2

2. The HR085 IR sensor must be receiving an adequate IR signal for the learning process to be successful.
3. Press and hold in the DEVICE Push-button for about 4 seconds, and the McIntosh LED will flash twice. This indicates the HR085 Remote Control is in the Programming Mode. Immediately press the following number Push-buttons:
9, 1, 0, 0
4. Press and hold in one of the Push-buttons on the "Other Brand Remote".
5. One or more of the DEVICE LEDs on the HR085

will illuminate (the four LEDs function like a signal strength meter). Change the position of the HR085 or the other brand remote control, to illuminate as many of the four LEDs as possible. After the optimum position has been determined, do not move either remote control until learning process has been completed.

6. Press the DEVICE Push-button to exit the Programming Mode and proceed to "Learning Commands".

Learning Commands

All of the Push-buttons on the HR085 Remote Control except for the DEVICE Push-button, may be used to store RC Commands. Before proceeding make sure the Remote Controls have fresh batteries installed and the optimum position has been determined. In the following example, the ►(Play) and the ►►(Next) transport commands will be learned from the Other Brand Remote and stored in the HR085 Remote Control "AUX" DEVICE. Refer to figure 3 and perform the following steps:

Note: It is important to perform the learning/storing steps at a moderate pace, thus preventing dropping out of the Programming Mode.

1. Press and hold in the DEVICE Push-button for about 4 seconds, the McIntosh LED will flash twice.
2. Using the Numeric Push-buttons on the HR085, enter in the Programming Code for the selecting the device (TV, CABLE or AUX) in which the learned commands will be stored, enter 3004:

Note: The AUX Device will be using in this example.

DEVICE NAME	CODE NUMBER
TV	1004
CABLE	2004
AUX	3004

3. The AUX LED will flash twice, followed by all four LEDs illuminating.
4. On the HR085, press and release the ►(Play) Push-button and three LEDs (TV, CABLE or AUX) will be illuminated.
5. Then press and hold in the ►(Play) Push-button on the Other Brand Remote until the TV and CABLE LEDs extinguish and just the AUX LED will be illuminated momentarily.
6. All four LEDs will illuminate on the HR085 Remote Control indicating it is now ready to learn an additional command(s).
7. Repeat steps four and five, except this time press the ►►(Next) Push-button in place of the ►(Play) Push-button.

8. When the AUX LED illuminates, quickly press the DEVICE Push-button until the AUX LED flashes twice. This will store the two learned commands ►(Play) and the ►►(Next).

9. The HR085 Remote Control returns to normal operation. By pressing the DEVICE twice (AUX LED will illuminate) and the newly learned transport commands can sent.

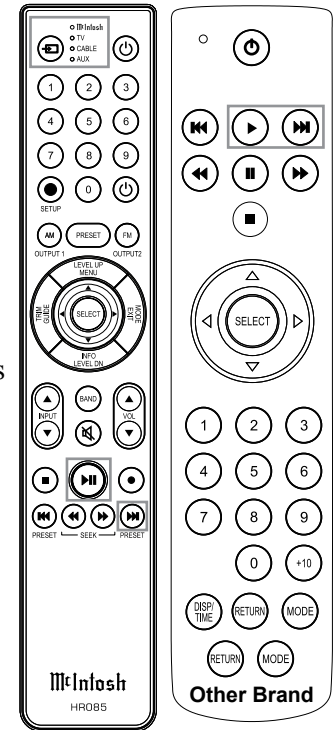


Figure 3



Delete Learned Commands

If at any time it becomes desirable to remove previously learned commands for a given Device (TV, CABLE or AUX) perform the following the steps below:

1. Press and hold in the DEVICE Push-button for about 4 seconds, the **McIntosh** LED will flash twice.
2. Using the Numeric Push-buttons on the HR085, enter in the Code Number for the selected device (TV, CABLE or AUX). This will remove the stored commands for the device. In this example, the commands previously store for the AUX Device will be deleted by entering code number 3009:

<u>DEVICE NAME</u>	<u>CODE NUMBER</u>
TV	1009
CABLE	2009
AUX	3009

The DEVICE AUX LED will flash twice indicating the stored commands have been deleted.

Reset the HR085 to default Settings

To remove all previously made changes to the DEVICE settings **McIntosh**,TV, CABLE and AUX perform the following the steps below:

1. Press and hold in the DEVICE Push-button for about 4 seconds, the **McIntosh** LED will flash twice.
2. Using the Numeric Push-buttons on the HR085, enter in the Code Number 9999.
The **McIntosh** LED will flash twice.

HR085 Hex Code Table

Before implementing the procedures below, it is important to make sure the HR085 in the McIntosh Mode:

1. Press and hold in the DEVICE Push-button for about 4 seconds, the **McIntosh** LED will flash twice.

The following HR085 information (and the table on the next page) is intended to be used by McIntosh Dealers and Professional A/V Custom Installers. While most McIntosh models utilize the “Normal” Remote Control Codes, a few models utilize the “Alternate” Remote Control Codes. To change the HR085 from “**Normal (page 1)**” to “**Alternate (page 2)**” Control Codes perform the following step:

1. Press and hold the SELECT and number 2 Push-buttons simultaneously (for about 8 seconds) until the Device Select **McIntosh** LED flashes twice.

To change the HR085 back to the Normal Control Codes perform the following step:

2. Press and hold the SELECT and number 1 Push-buttons simultaneously (for about 8 seconds) until the Device Select **McIntosh** LED flashes twice.

The HR085 Remote Control has stored into its memory additional special Control Codes used in previous McIntosh Remote Controls. These stored Control Codes can be used for the purpose of learning the commands for programming other Remote Control(s) and/or Remote Control Systems. For example, to learn the Control Code for selection of the “DVD” Input on the HR070/071 Remote Controls using the “Normal Control Codes” perform the following steps:

Note: Refer to the top row of information on the chart on the next page to select “Remote Control Model” and “Normal” or “Alternate” Code by entering the “Page _ number” in the steps.

1. Press and hold the SELECT and number 3 Push-buttons simultaneously (for about 8 seconds) until the Device Select **McIntosh** LED flashes twice.
2. To learn the “DVD” Input Command press the numeric keypad “8” to send out the IR Command to select the DVD Input.

To change the HR085 back to the Normal Control Codes perform the following step:

2. Press and hold the SELECT and number 1 Push-buttons simultaneously (for about 8 seconds) until the Device Select **McIntosh** LED flashes twice.

How to use the HR085 Remote Control

	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			
43	RECORD	4AH	CAH									
44	POWER ON	4BH	CBH									
45	-	4CH	CCH									
46	-	4DH	CDH									
47	INPUT UP (Note 1)	4EH	CEH									
48	INPUT DOWN (Note 1)	4FH	CFH									
49	1	50H	DOH									
50	2	51H	D1H									

Note 1: Punch through to McIntosh key definition and function



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