



AH66T IR Commands Definitions and Use

PURPOSE

This bulletin lists and defines the AH66T IR command set and provides examples of its use. The complete set of AH66T IR codes in CCF format can be found at www.atonhome.com.

The IR commands are broken into three types or groups of commands:

IR Router Commands

Main AH66T Commands

AH66T Tuner Commands

IR Router Commands

IR routing commands open a path from the Zone keypad input that receives the IR Routing command to the IR port selected.

For example, if the “IR 1” command is sent into the AH66T through the Zone two input a path is opened from the Zone two input to the IR 1 port; if the “IR 5” command is sent into the AH66T through the Zone six input the path is opened from the Zone six input to the IR 5 port.

If any IR port is open the two IR ALL Out ports of the AH66T are also open. If no individual ports are open the IR ALL Out ports are closed.

IR ports may be individually opened, or turned on, but there are no individual close port, or off commands. Once an IR port is open it must be closed by using the “IR OFF” command. It is important to keep this in mind to avoid “cross controlling” identical IR controlled components such as cable or satellite boxes. The “IR OFF” command closes all open IR paths from the zone that receives the “IR OFF” command to the IR ports.

A Source Select command closes all open IR paths from the receiving zone and opens the factory default or SystemWorx programmed IR port for that source.

(Continued Next Page)

IR Router Commands (Continued)

IR Router Command	Function
IR OFF	Closes all IR paths from receiving zone to IR ports
IR 1	Opens an IR path from the receiving zone to port # 1
IR 2	Opens an IR path from the receiving zone to port # 2
IR 3	Opens an IR path from the receiving zone to port # 3
IR 4	Opens an IR path from the receiving zone to port # 4
IR 5	Opens an IR path from the receiving zone to port # 5
IR 6	Opens an IR path from the receiving zone to port # 6

Main AH66T Commands

These commands control zone and source settings including the selected source in a zone, zone EQ settings, source gain adjustments and other settings. Whichever zone receives the command is the zone that will respond to the command. If the command is received through the Zone four keypad input, Zone four will respond; if the command is received through the Zone eleven keypad input, Zone eleven will respond.

Main AH66T Command	Function
SYS OFF	Turns all zones OFF
DND OFF ON TOG	Sets or Toggles the Do-Not-Disturb setting
WHM OFF ON TOG	Sets or Toggles the Whole House Music setting
ZONE OFF ON TOG	Turns the zone ON, OFF or Toggles the state
MUTE OFF ON TOG	Sets or Toggles the Mute setting
VOLUME DOWN UP	Adjusts the Volume setting
LOUD OFF ON TOG	Sets or Toggles the Loudness setting
TREB DOWN UP	Adjusts the Treble setting
SET TREB ON CUR	Sets the treble TURN ON setting to the current level.
SET TREB ON LAST	Sets the treble TURN ON setting to the last level.
BASS DOWN UP	Adjusts the Bass setting
SET BASS ON CUR	Sets the bass TURN ON setting to the current level.
SET BASS ON LAST	Sets the bass TURN ON setting to the last level.
EQ FLAT	Sets the Bass and Treble settings to flat (0dB)
SRC IN GAIN DOWN UP	Adjusts the currently selected Source's Input Gain *
SET SRC GAIN CURRENT	Sets the currently selected Source's Input Gain

* Unless the "SET SRC GAIN CURRENT" command is used, when the zone is turned off or in the event of a power failure, the gain will revert to the factory default setting or to the setting programmed using the SystemWorx software.

(Continued Next Page)

Main AH66T Commands (Continued)

Main AH66T Command				Function
AUDIO R1				Selects AH66T # 1's Internal Tuner as the source
AUDIO R2				Selects AH66T # 2's Internal Tuner as the source
AUDIO 1				Selects Audio Input # 1 as the source
AUDIO 2				Selects Audio Input # 2 as the source
AUDIO 3				Selects Audio Input # 3 as the source
AUDIO 4				Selects Audio Input # 4 as the source
AUDIO 5				Selects Audio Input # 5 as the source
AUDIO 6				Selects Audio Input # 6 as the source
CTRL ZONE 1				Directs the next command to zone 1 †
CTRL ZONE 2				Directs the next command to zone 2
CTRL ZONE 3				Directs the next command to zone 3
CTRL ZONE 4				Directs the next command to zone 4
CTRL ZONE 5				Directs the next command to zone 5
CTRL ZONE 6				Directs the next command to zone 6
CTRL ZONE 7				Directs the next command to zone 7
CTRL ZONE 8				Directs the next command to zone 8
CTRL ZONE 9				Directs the next command to zone 9
CTRL ZONE 10				Directs the next command to zone 10
CTRL ZONE 11				Directs the next command to zone 11
CTRL ZONE 12				Directs the next command to zone 12
SET MAX VOL CUR				Sets the maximum volume in the zone to the current level
SET MAX VOL TO 100				Sets the maximum volume in the zone to 100
SET MIN VOL ON CUR				Sets the minimum TURN ON volume to the current level
SET MAX VOL ON CUR				Sets the maximum TURN ON volume to the current level
SET DND ON CUR				Sets the DND TURN ON setting to the current level
SET DND ON LAST				Sets the DND TURN ON setting to the last level
PAGE	OFF	ON	TOG	Sets or Toggles the PAGE audio input
PAGE VOL	DOWN	UP		Adjusts Page Volume in the zone ‡
SET PAGE VOL CUR				Sets the Page Volume setting to the current level.
DB	OFF	ON	TOG	Sets or Toggles the Doorbell audio input
DB VOL	DOWN	UP		Adjusts Doorbell Volume in the zone ‡
SET DB VOL CUR				Sets the Doorbell Volume setting to the current level.

† The use of Control Zone Commands is covered in detail in the “AH66T Multi-Zone Control Using IR Commands” Technical Bulletin available on the ATON web site.

‡ Unless the “SET PAGE VOL CUR” or “SET DB VOL CUR” commands are used after adjustments are made, when the zone is turned off or in the event of a power failure, the volume will revert to the factory default setting or to the setting programmed using the SystemWorx software.

(Continued Next Page)

AH66T Tuner Commands

These commands control the Internal Tuners of the AH66T. Use the “R1” commands for chassis one’s tuner and the “R2” commands for chassis two’s tuner.

This document will only list the R1 commands. R2 commands perform the identical functions on the second AH66T chassis’ tuner.

Radio One Command	Function
R1 KEY 0	Enters Radio 1’s digit 0
R1 KEY 1	Enters Radio 1’s digit 1
R1 KEY 2	Enters Radio 1’s digit 2
R1 KEY 3	Enters Radio 1’s digit 3
R1 KEY 4	Enters Radio 1’s digit 4
R1 KEY 5	Enters Radio 1’s digit 5
R1 KEY 6	Enters Radio 1’s digit 6
R1 KEY 7	Enters Radio 1’s digit 7
R1 KEY 8	Enters Radio 1’s digit 8
R1 KEY 9	Enters Radio 1’s digit 9
R1 PRESET A	Selects Radio 1’s Preset Group A s
R1 PRESET B	Selects Radio 1’s Preset Group B
R1 PRESET C	Selects Radio 1’s Preset Group C
R1 PRESET D	Selects Radio 1’s Preset Group D
R1 DIRECT TUNE	Sets Radio 1s Tuning Mode to Direct
R1 PRESET TUNE	Sets Radio 1s Tuning Mode to Presets
R1 TUNE MODE TOG	Toggles Radio 1’s Tuning Mode between Direct and Presets
R1 AM	Sets Radio 1’s Frequency to AM
R1 FM	Sets Radio 1’s Frequency to FM
R1 FM MODE	Toggles Radio 1’s FM Tuning Mode between Stereo and Mono
R1 BAND TOGGLE	Toggles Radio 1’s Tuning Band between AM and FM

§ Each Preset group has 99 presets.

(Continued Next Page)

AH66T Tuner Commands (Continued)

Radio One Command	Function
R1 MEMORY SAVE	Saves the currently tuned frequency to a Preset #
R1 MEMORY DELETE	Deletes the currently tuned frequency from the Presets
R1 ENTER	Used to immediately execute previously entered commands
R1 PRESET UP	Tunes the radio to the next higher Preset
R1 PRESET DOWN	Tunes the radio to the next lower Preset
R1 SEEK UP	Tunes the radio to the next higher frequency
R1 SEEK DOWN	Tunes the radio to the next lower frequency
R1 MANUAL TUNE UP	Increments the frequency by one step (101.50 to 101.70)
R1 MANUAL TUNE DOW	Decrements the frequency by one step (101.70 to 101.50)
R1 SCAN PRESET UP	Tunes to the next higher Preset for 10 seconds, repeats ¶
R1 SCAN PRESET DOW	Tunes to the next lower Preset for 10 seconds, repeats ¶

To save a Preset:

1. Tune to the desired frequency (include both digits to the right of the decimal point for FM stations)
2. Select the Preset Group (A, B, C, or D)
3. Issue the R1 MEMORY SAVE command
4. Enter the digits for the Preset (1-99)
5. (Optional) Issue the R1 Enter command
After 5 seconds the station will automatically be saved so this step is not required.

Command sequence to save frequency 101.50 to Preset 11 of Preset Group A:

R1 KEY 1
R1 KEY 0
R1 KEY 1
R1 KEY 5
R1 KEY 0
R1 PRESET A
R1 MEMORY SAVE
R1 KEY 1
R1 KEY 1
R1 ENTER (Optional)

¶ The Preset Scan will continue until another command is received. The simplest way to stop the scan and avoid any unintended results is to send the same Preset Scan command again.

Example: R1 SCAN PRESET UP starts the scan and when the desired Preset has been tuned, R1 SCAN PRESET UP stops the scan.