NAD HTR-1

SYSTEM REMOTE CONTROL
OWNER'S MANUAL

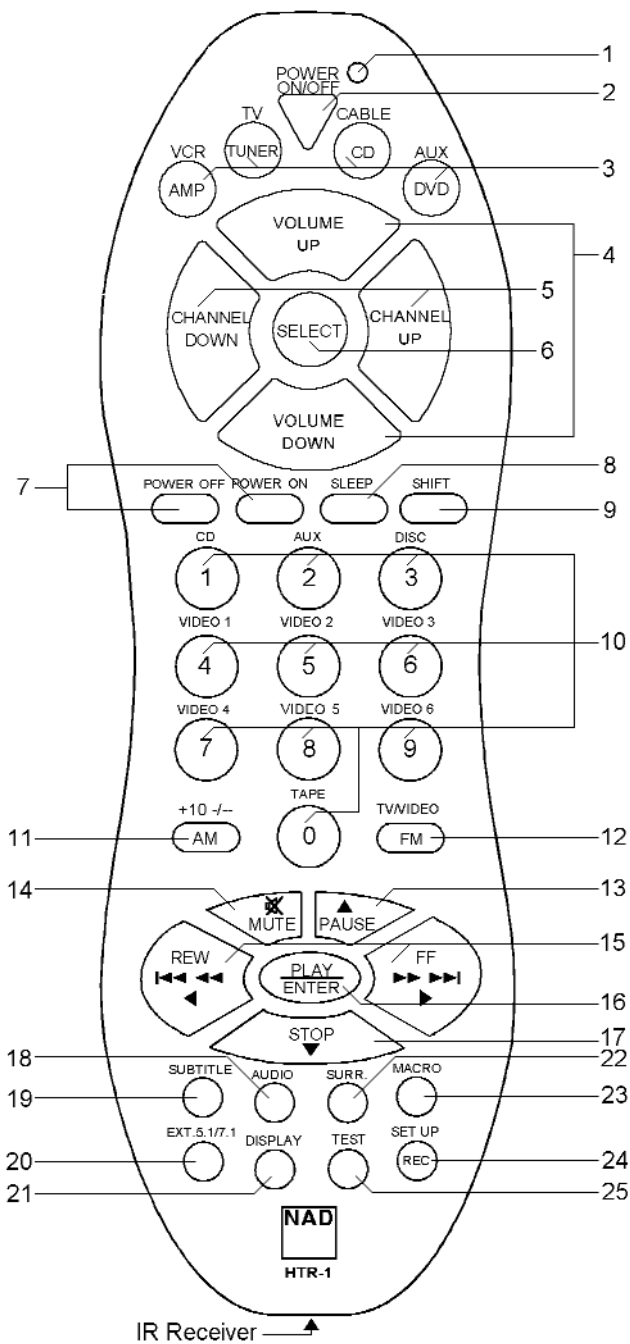
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NAD HTR-1 UNIVERSAL REMOTE CONTROL

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USING THE NAD HTR-1 UNIVERSAL REMOTE CONTROL WITH THE NAD T761 AV RECEIVER

The NAD HTR-1 Universal Remote control packed with your NAD T761 AV receiver has been pre-configured to operate all controls. Besides operating the receiver, the HTR-1 can replace up to eight remote controls for different devices. It has a database of remote control commands built-in for a large range of different brands and devices. In case your particular brand or model isn't featured in the database, the HTR-1 can also "learn" remote commands from the original remote control of the device. Refer to the HTR-1 instruction manual on how to program.

The table below indicates the locations and functions available; the numbers refer to the drawing in the NAD HTR-1 manual. Refer to the T761 instruction manual for explanation of specific functions.

Make sure the "AMP" mode has been selected when using the HTR-1 Universal Remote Control to operate your receiver.

No.	Key description	T761 function
2	POWER ON/OFF	Power On/Off
3	AMP (VCR), TUNER (TV), CD (CABLE), DVD (AUX)	Select AMP for T761
4	VOLUME UP/DOWN	Master Volume Up/Down
5	CHANNEL UP/DOWN	Preset/Tune Up/Preset/Tune Down
6	SELECT	Preset/Tune mode
7	POWER OFF & POWER ON	Power Off & Power On
8	SLEEP	Sleep
9	SHIFT	—
10	1 (CD), 2 (AUX), 3 (DISC),... ...9 (VIDEO 6), 0	Input select
11	AM (+10 -/—)	Select AM
12	FM (TV/VIDEO)	Select FM
13	PAUSE	OSD Cursor Up
14	MUTE	Volume Mute
15	▶▶ ▶▶❙ ▶ & ◀◀ ❙◀◀ ◀	OSD Cursor Right & Left
16	PLAY/ENTER	Enter
17	STOP	OSD Cursor Down
18	AUDIO	Tone Control
19	SUBTITLE	Dynamic Range
20	EXT 5.1/7.1	Ext 5.1
21	DISPLAY	Display
22	SURR.	Surround Mode
23	MACRO	—
24	SETUP/REC	Channel select
25	TEST	Surround Test On/Off

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POWER ON/OFF — 1
— 2

TV   CABLE
VCR TUNER CD AUX — 3
AMP   DVD

VOLUME UP — 4

— 5

CHANNEL DOWN   SELECT   CHANNEL UP — 6

VOLUME DOWN

POWER OFF POWER ON SLEEP SHIFT — 8
7 —   — 9

CD   AUX   DISC
1   2   3
VIDEO 1   VIDEO 2   VIDEO 3
4   5   6   — 10
VIDEO 4   VIDEO 5   VIDEO 6
7   8   9

+10 -/--   TAPE   TV/VIDEO
11 — AM   0   FM — 12

14 —   MUTE PAUSE — 13

REW   FF — 15
PLAY/ENTER — 16
18 —   STOP — 17
             — 22
SUBTITLE AUDIO SURR. MACRO
19 —   — 23
EXT.5.1/7.1   TEST SET UP
20 —   DISPLAY   REC — 24
21 —   — 25

NAD
HTR-1

IR Receiver

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The NAD HTR-1 Universal Remote Control can replace up to eight different individual remote controls, offering command of the most important and often used controls, thus significantly reducing "remote control clutter": Amplifier, Tuner, CD, DVD, VCR, TV, Cable, Custom.

If the NAD HTR-1 came packed with an NAD product, such as an AV receiver, all commands will already have been programmed in and is ready for use with the product. Where appropriate, the correct generic remote control commands for other NAD products, such as CD players for instance, have also been programmed in.

The HTR-1 comes with a large database of remote control commands for other brands, making it easy to configure to suit the particular mix of brands and models in your system. The database contains remote control commands for over four hundred brands. In the unlikely case you are not able to find the remote control commands for a specific brand, the HTR-1 also allows you to "learn" remote commands from the original remote control so that that device can still be remotely operated with the NAD HTR-1.

GENERAL

Alkaline batteries are recommended for maximum operating life. Three AAA (R 03) batteries should be fitted in the battery compartment at the rear of the Remote Control handset. When replacing batteries, check that they have been put in the right way round, as indicated on the base of the battery compartment.

The keys on the HTR-1 are backlit for ease of operation in darkened environments. Backlighting is automatically activated as soon as any key is pressed. To preserve batteries, it switches itself off automatically five seconds after the last key press.

When you find that operating range and angle are rapidly decreasing and that the key backlighting is getting dimmer, it may be time to replace the batteries. The NAD HTR-1 has a non-volatile memory so that, even if the batteries are removed for a prolonged period of time, it will retain all settings and commands as programmed. The HTR-1 will operate up to a distance of 16ft (5m). Direct sunlight or very bright ambient lighting may affect the operating range and angle.

NOTE

There must be a clear line-of-sight path from the remote control to each of the devices' infrared receiver (usually located behind a display window on the front panel); if that path is obstructed, the remote control may work erratically or not at all.

USING THE NAD HTR-1

The HTR-1 will replicate the most common commands for the device selected. For instance, "CHANNEL UP" will advance preset or channel selection for either Tuner, TV or Cable device; but will move cursor up with DVD selected as device. Once the remote control has been configured to suit your system (refer to chapters "Setting up Pre-programmed Remote commands" and "Learning Remote Commands") it is ready for use. The numbers refer to the drawing.

The table below specifies what commands are available for all devices in the factory default setting. The devices Amp, Tuner, CD and DVD come standard with remote control commands suitable for most NAD remote controlled products.

NOTE

The key listing below specifies what each key will do from the factory default setting for the various devices. Refer to the original instruction manual for the devices in your system to check how these respond to specific commands.

Not all commands on the HTR-1 may be available for the devices it is used with or there may be commands not available on your specific device. The key listing below assumes factory default setting or settings from database but not remote commands learned from an original remote control

SELECTING WHICH DEVICE TO OPERATE

Each of the four device keys allows operation of two different devices, up to eight different devices can be controlled. The devices that can be controlled are labelled on the key itself and directly over it.

SELECTING PRIMARY DEVICES

To access one of the four primary devices (the ones as labelled on the key itself: AMP, TUNER, CD, DVD), simply press the required key.

Primary Device keys: AMP; TUNER; CD; DVD (No. 3).

SELECTING SECONDARY DEVICES

To access one of the secondary devices, first press the "SHIFT" key (No. 9) (STATUS LED, No. 1, lights up), and within the default time of 5 seconds, press the required device key (VCR, TV, CABLE, CUSTOM). The Device key will light up with Status LED briefly to confirm, after which both will extinguish.

Secondary Device keys: VCR; TV; CABLE; CUSTOM (No. 3).

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After selecting a primary or secondary device by pressing the key(s) as described above, the other keys on the remote control will be set to operate the chosen device. For instance, with TUNER selected as device, the "CHANNEL UP" and "DOWN" keys (No. 5) will select the next higher, respectively next lower tuner preset station. With DVD selected as device, the same keys will move the DVD Menu cursor Up or Down.

When pressing a key, the selected Device key will flash to indicate a command is being transmitted. If the selected device key doesn't flash when pressing a key, it means that the key doesn't have a function for the device selected.

STATUS LED (NO.1)
This LED will light up to indicate status: Use of "SHIFT" key (No. 9) and Set-up mode. The LED will light up green for up to 5 seconds once the "SHIFT" key (No. 9) has been pressed. Within these 5 seconds, one of the four device keys (No. 3) can be pressed to switch the remote control to one of the secondary devices (VCR, TV, CABLE, CUSTOM). The Device key will light up with Status LED briefly to confirm, after which both will extinguish. The LED will extinguish within 5 seconds if no other key is pressed or if "SHIFT" is pressed again.

The LED will light up red to enter set-up mode (pressing "POWER ON/OFF" No. 2; and "MUTE" No. 14 simultaneously for two seconds). Refer to chapters "Setting up Pre-programmed Codes" and "Learning Remote Commands" for additional information.

SETTING UP PRE-PROGRAMMED CODES

The HTR-1 has an extensive library built-in for pre-programmed remote control commands for many different brands. By entering the device code for the particular device and brand, all major functions for that device can be controlled with the HTR–1.

There are two ways of setting up the remote control for pre-programmed remote commands:
- By using the LIBRARY SEARCH routine
- By entering the MANUFACTURER ID CODE

SET-UP BY LIBRARY SEARCH
1 Switch on your device manually or with your original remote control.
2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
3 Press the required DEVICE key (No. 3); the DEVICE key will light up.
4 Press the POWER ON/OFF key (No. 2) and hold down for 2 seconds then release for 2 seconds. Repeat this process until your device switches off or to Stand-by. NOTE: If you accidentally skipped a code that turned your device off, you can go one code back by pressing the MUTE key (No. 14). If there is no Power On/Off code for a particular device, the HTR-1 will transmit a "Play" command instead.
5 After your device has switched off, press the lit DEVICE Key once to stop the LIBRARY SEARCH.
6 Try the appropriate keys to see if the corresponding function for your device work (in case your device switched off completely, it may be necessary to manually power it up again).
   - If find you find that not all the keys appropriate for your device operate correctly, press the DEVICE Key for 1 second; the DEVICE Key will flash once. Repeat step 4 to find the set of remote commands that best operates your device. Once found, proceed with step 7 to store.
7 If you find all the major functions work correctly with your device, press the DEVICE Key (No.3) 3 times until the DEVICE Key and STATUS LED (No. 1) go out. The code is now stored.

Example
You wish to set up the remote control to operate your TV:
1 Switch on your television
2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
3 Press SHIFT (No. 9); the STATUS LED changes to green. Press the TUNER/TV device key (No.3). The STATUS LED will change to red again.
4 Press the POWER ON/OFF key (No. 2) and hold down for 2 seconds then release for 2 seconds. Repeat this process until the TV switches off or switches to Stand–by.
5 Press the lit DEVICE KEY once, and now try the other function keys on the HTR-1. Switch the TV back on (if it switched off completely, it may be necessary to this manually) and try out all the keys appropriate for your TV; such as Volume Up/Down; Channel Up/Down; Mute, etc. (refer also to table).
   - If you find not all keys operate your TV correctly, press the DEVICE Key for 1 second; the DEVICE Key will flash once. Repeat step 4 until you find the set of remote commands that best operates your TV. Once found, proceed with step 6 to store.
6 If all major functions work, press the TUNER/TV key 3 times; The TUNER/TV device key and STATUS LED will extinguish. The code is now stored and the remote control is ready for use with the TV.

When you reach the end of the library, The STATUS LED will flash twice per second and the set up mode is cancelled.

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ENTERING MANUFACTURER ID CODE

Instead of searching the library, you can also enter a Manufacturer ID code directly for your brand and model.

In the code listing table, look up the device brand name to find the correct code for your brand. Switch on your device manually or with your original remote control.

1 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.

2 Press the required DEVICE key (No.3); the DEVICE key will light up.

3 Using the numeric keys (No.10); enter the 4-digit Manufacturer ID code from the code list.

4 Again using the numeric key-pad (No. 10):

Press 1 to set-up a TUNER & TV;

Press 2 to set-up an AMP & VCR;

Press 3 to set-up a CD & CABLE or Satellite receiver.

Press 4 to set up a DVD orif you are programming any other devices (CUSTOM).

If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.

5 It is quite common for a brand to have various sets of remote control commands. In order to find the correct set of remote control commands for your particular model, you will need to search within the manufacturer's ID code for the correct device code:

  • Press the POWER ON/OFF key and hold down for 2 seconds then release for 2 seconds, repeat this process until your device switches off (or switches to Stand-by). NB: If you accidentally skipped a code that turned your device off, you can go one code back by pressing the MUTE key.

6 Press the lit DEVICE KEY once and now try out the other function keys on the HTR–1.

  • If you find not all keys appropriate for the device operate correctly, press the DEVICE Key for 1 second; the DEVICE Key will flash once. Repeat step 6 to find the set of remote commands that best operates your device. Once found, proceed with step 8 to store.

7 When you have found a suitable set of remote control commands, press the DEVICE Key 3 times until the DEVICE Key and STATUS LED go out. The code is now stored.

Example

You wish to set up the HTR-1 to operate your Philips TV:

1 Look up the Manufacturer ID code for Philips (which is 3232).

2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red. Press SHIFT (No. 9); the STATUS LED changes to green. Press the TUNER/TV device key (No.3). The STATUS LED will change to red again.

3 Using the numeric keys (No.10); enter 3232 (Philips' Manufacturer ID code).

4 Again using the numeric key-pad (No. 10), Press 1. The STATUS LED will flash once (if the code is wrong, the STATUS LED will flash twice).

5 Philips has many different sets of remote commands. In order to find the correct set of remote control commands for your particular model, you will need to search within the Philips' ID code:

  • Press the POWER ON/OFF key and hold down for 2 seconds then release for 2 seconds, repeat this process until your device switches off (or switches to Stand-by). NB: If you accidentally skipped a code that turned your device off, you can go one code back by pressing the MUTE key.

6 Press the lit DEVICE KEY once and now try out the other function keys on the HTR–1.

  • You mayfind that not all keys device operate the TV correctly; press the DEVICE Key for 1 second; the DEVICE Key will flash once. The second set that turns off your TV does operate all major functions correctly: Proceed to the next step to store.

7 Press the DEVICE Key 3 times until the DEVICE Key and STATUS LED go out. The code is now stored and the HTR-1 is ready for use with your Philips TV.

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CODE RECALL FUNCTION

The Code Recall function allows you to look up the exact code specific for your device's brand and model. Note this is not the manufacturer IC code, but the specific device code that operates your device; this is a 5-digit number.

1   Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
2   Press the required DEVICE key (No.3); the DEVICE key will light up.
3   Using the numeric key-pad (No. 10) engage Code Recall Mode:
    Press 88881 to check the code for a Tuner.
    Press 88882 to check the code for an Amp.
    Press 88883 to check the code for a CD player.
    Press 88884 to check the code for a DVD player.
    Press 88885 to check the code for a TV.
    Press 88886 to check the code for a VCR.
    Press 88887 to check the code for a Cable or Satellite receiver.
    Press 88888 to check the code for any other devices (CUSTOM).
    If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.
4   To find out the number for the first digit of the code, press 1 on the Numeric keypad (No.10) and count the number of times the DEVICE flashes. To find the 2nd digit of your code press 2, for the 3rd digit press 3, for the 4th digit press 4 and for the 5th digit press 5 and each time count the number of times the DEVICE key flashes. NOTE: IF the DEVICE key doesn't flash, the digit's number is zero.
5   Press the DEVICE key to exit Code Recall mode. The DEVICE key will extinguish.

In case the HTR-1 gets accidentally re-programmed, it is advisable to note down in the table below which exact codes were set up to operate your devices.

Device	code	Device	code
AMP		VCR	
TUNER		TV	
CD		CABLE	
DVD		CUSTOM	

You can use the recalled device code to enter it directly into the HTR-1; this voids the need of having to go through each separate device within a manufacturer ID code:

1   Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
2   Press the required DEVICE key (No.3); the DEVICE key will light up.
3   Using the numeric keys (No.10); enter the 5-digit device code as found using Code Recall Function. If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.
4   With the correct code entered, press the DEVICE Key 3 times until the DEVICE Key and STATUS LED go out. The code is now stored.

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LEARNING REMOTE COMMANDS

The HTR-1 allows you to learn commands within already set-up devices. This way, you can add a desired specific function for your device to the selected pre-programmed set of remote commands, by learning that command into the required key for that device. In case none of the pre-programmed set of remote commands are suitable for your device, you can let the HTR-1 learn the remote commands for the device.

You can over-write already learned commands or commands from the pre-programmed library; this does not affect the other commands already available for the selected device.

NOTE

The NAD HTR-1 can only learn infrared commands. It is not compatible with UHF and Ultrasonic remote controls. There are some infrared remote controls that use encoding methods, which the HTR-1 cannot learn. At least104 commands can be learned.

No remote commands can be learned into the DEVICE keys (No. 3) and SHIFT key (No. 9).

To learn remote commands from the original remote control into the NAD HTR-1:

1 Position the original remote control 3 to 5 cm away from the HTR-1's Infrared receiver, located at the bottom of the remote control (see drawing), with the original's remote transmission window or LED (usually at the top) pointing towards to the HTR-1's Infrared receiver.

2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.

3 Press the required DEVICE key (No.3); the DEVICE key will light up.

4 Using the numeric key-pad (No. 10) engage Learning Mode:

Press 55551 to learn remote commands for TUNER DEVICE key.

Press 55552 to learn remote commands for AMP DEVICE key.

Press 55553 to learn remote commands for CD DEVICE key.

Press 55554 to learn remote commands for DVD DEVICE key.

Press 55555 to learn remote commands for TV DEVICE key.

Press 55556 to learn remote commands for VCR DEVICE key.

Press 55557 to learn remote commands for CABLE DEVICE key.

Press 55558 to learn remote commands for CUSTOM DEVICE key.

If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.

5 Press and release the function key on the HTR-1, which you want to duplicate/learn a similar function from the original remote into; the DEVICE key flashes once.

6 Press and hold down the function key on the original remote. When the HTR-1 has finished copying the code, the STATUS LED will then flash once. Release the key on the original remote. If the STATUS LED flashes twice, an error has occurred in the learning process; repeat the learning process from step 5 onwards.

7 To program the next function key for the same device repeat steps 5-6.

8 When you have finished programming the various commands for the selected device, press the DEVICE key. The STATUS LED and DEVICE will extinguish. The remote commands have now been learned and stored, the HTR-1 is ready to be used with the device.

NOTE

If no key is pressed for over 10 seconds, the HTR-1 will switch back from learning mode to normal use mode.

SETTING UP AND USING MACRO FUNCTION

The Macro function allows you to send up to 6 remote commands with just one key press. This can be useful, for example to switch on your AV receiver, TV and DVD player, select the DVD input on the receiver and engage the DVD Play function with a single key press.

For each of the 8 devices, a Macro function can be set up:

1 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.

2 Press the required DEVICE key (No.3); the DEVICE key will light up.

3 Using the numeric key-pad (No. 10) engage Macro Setup Mode:

Press 77771 to record Macros for TUNER DEVICE key.

Press 77772 to record Macros for AMP DEVICE key.

Press 77773 to record Macros for CD DEVICE key.

Press 77774 to record Macros for DVD DEVICE key.

Press 77775 to record Macros for TV DEVICE key.

Press 77776 to record Macros for VCR DEVICE key.

Press 77777 to record Macros for CABLE DEVICE key.

Press 77778 to record Macros for CUSTOM DEVICE key.

If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.

4 Record your Macro by selecting the functions you wish to carry out when Macro is selected, just as if you were using the remote control. You can switch devices to have remote commands from other devices within the same Macro.

5 Press the Macro key (No. 23) to store the Macro. The STATUS LED and DEVICE key will go out and the Macro is programmed.

NOTE

Some devices may not be capable in executing remote commands in rapid succession. When recording your macro, this problem can be avoided by alternating each commands for the various devices, see example below.

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Example

With just pressing Macro for AMP as device, you wish to switch on your AV receiver, TV and DVD player; select the Video 1 input on the receiver and activate Play on the DVD player.

1   Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
2   Press the required AMP DEVICE key (No.3); the AMP key will light up.
3   Using the numeric key-pad (No. 10) engage Macro Setup Mode for AMP Device: Press 77772. The STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.
4   Record the Macro by selecting the functions:
    •   Press POWER ON/OFF (No.2) (command for switching on AV receiver).
    •   Press SHIFT (No. 9); the STATUS LED changes to green. Press the TUNER/TV device key (No.3). The STATUS LED will change to red again. Press POWER ON/OFF (command for switching on TV).
    •   Press DVD Device key; press POWER ON/OFF (command for switching on DVD player).
    •   Press AMP Device key; press VIDEO 1 (inside No. 10) (command for switching AV receiver to Video 1 input).
    •   Press DVD Device key; press PLAY/ENTER (No. 16) (command for activating Play on DVD player.
5   Press the Macro key (No. 23) to store the Macro. The STATUS LED and DEVICE key will go out and the Macro is programmed.

To play back a Macro, select the required device and press Macro. The macro is now executed, for each remote command send in succession, the corresponding DEVICE key will light up briefly.

NOTE

Set-up mode is automatically cancelled if no key is pressed for 15 seconds.

RESET TO FACTORY DEFAULT SETTINGS

Sometimes it may be necessary to reset the HTR-1 to its factory default settings, for instance, if you change many components in your system or do not recall how keys were programmed.

TO RESET THE NAD HTR-1

Press the POWER ON/OFF (No. 2) and SELECT keys (No. 6) together for approximately 5 seconds until STATUS LED (no.1) flashes twice.

NOTE

When you reset the remote to factory default settings, you will LOOSE ALL SETTINGS AND LEARNED REMOTE COMMANDS; ONCE ACTIVATED, RESET CAN NOT BE UNDONE!

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Drawing No.	Remote	(NAD) AMP	(NAD) TUNER	(NAD) CD	(NAD) DVD	(Shift + AMP) VCR	(Shift + TUNER) TV	(Shift + CD) CABLE	(Shift + DVD) CUSTOM
2	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	-
3	AMP / VCR	AMP	TUNER			AMP	TUNER		
	TUNER / TV		TUNER						
	CD / CABLE			CD				CD	
	DVD / CUSTOM				DVD				
4	VOLUME+	VOLUME+	VOLUME+	-	CURSOR UP	TV VOLUME +	TV VOLUME +	TV or CAB VOL +	-
	VOLUME-	VOLUME-	VOLUME-	-	CURSOR DOWN	TV VOLUME -	TV VOLUME-	TV or CAB VOL -	-
5	CHANNEL+	PRESET+	PRESET+	-	CURSOR RIGHT	VCR PROGRAM +	PROGRAM +	CAB PROGRAM +	-
	CHANNEL-	PRESET-	PRESET-	-	CURSOR LEFT	VCR PROGRAM -	PROGRAM -	CAB PROGRAM -	-
6	SELECT	PRESET/TUNE (ENTER)	PRESET/TUNE	-	ENTER	VCR MENU	C/P MENU	CAB MENU	-
7	POWER OFF	POWER OFF	POWER OFF	POWER OFF	-	-	-	-	-
	POWER ON	POWER ON	POWER ON	POWER ON	-	-	-	-	-
8	SLEEP	SLEEP	-	-	ZOOM	-	-	-	-
9	SHIFT					SHIFT	SHIFT	SHIFT	
10	1 / CD	CD	PRESET 1	1	1	1	1	1	-
	2 / AUX	AUX	PRESET 2	2	2	2	2	2	-
	3 / DISC	DISC (DVD)	PRESET 3	3	3	3	3	3	-
	4 / VIDEO 1	VIDEO 1	PRESET 4	4	4	4	4	4	-
	5 / VIDEO 2	VIDEO 2	PRESET 5	5	5	5	5	5	-
	6 / VIDEO 3	VIDEO 3	PRESET 6	6	6	6	6	6	-
	7 / VIDEO 4	VIDEO 4	PRESET 7	7	7	7	7	7	-
	8 / VIDEO 5	VIDEO 5	PRESET 8	8	8	8	8	8	-
	9 / VIDEO 6	VIDEO 6	PRESET 9	9	9	9	9	9	-
	0 / TAPE	TAPE1	PRESET 0	0	0	0	0	0	-

	AM / + 10 -/—	AM	AM	+10	TITLE	VCR [-/—]	-/—	SAT -/—	
11	FM / TV/VIDEO	FM	FM	-	MENU	-	TV/VIDEO	-	-
12	PAUSE	CURSOR UP	-	PAUSE	PAUSE	PAUSE	TV MUTE	UP	-
13	MUTE	MUTE	MUTE	-	RESUME	TV MUTE	TV MUTE	TV or CAB MUTE	-
14	SKIP- / REW	CURSOR LEFT	TUNE-	SKIP-	SKIP-	REW	-	LEFT	-
15	SKIP+ / FF	CURSOR RIGHT	TUNE+	SKIP+	SKIP+	FF	-	RIGHT	-
16	PLAY / ENTER	SELECT / ENTER	ENTER	PLAY	PLAY	PLAY		DOWN	-
17	STOP	CURSOR DOWN	-	STOP	STOP	STOP			-
18	AUDIO	TONE CONTROL	-	-	AUDIO				-
19	SUBTITLE	DYNAMIC RANGE	-	-	SUBTITLE			RECALL	-
20	EXT.5.1/7.1	EXT. 5.1	-	PROGRAM	ANGLE	-	-	-	-
21	DISPLAY	DISPLAY	BANK	TIME	DISPLAY	-	-	-	-
22	SURR.	SURR.MODE	-	RANDOM	RANDOM	-	-	-	-
23	MACRO	-	-	-	-				
24	SET UP / REC	CHANNEL SELECT	-	-	SETUP	RECORD	C/P MENU STORE	MENU STORE	-
25	TEST	SURR.TEST	-	REPEAT	RETURN	-	-	-	-

Manufacturer	ID code	Manufacturer	ID code	Manufacturer	ID code	
ACURA	4310	DUAL-TEC	2211	JERROLD	2430	
ADMIRAL	2001	DUMONT	2212	JOHNSON	2431	
AGASHI	2001	DUMONT-FINLUX	2213	JOHANSSON	2431	
AIWA		DYNATECH	2214	JVC	2432	
AKAI	2002	ECHOSTAR	2220	KAISER	2433	
AKKAI	4334	EDISON	2220	KAISUI	2433	
AKURA	4311	ELBE	2221	KAPSCH	4301	
AKUSTIK	4340	ELBIT	2222	KARCHER	2434	
ALBA	2003	ELCIT	2223	KARDON	4344	
ALBIRAL	2004	ELECTRO TEC	4430	KATHREIN	2440	
ALLORGAN	4234	ELECTRONIC	4430	KENDO	2441	
AMSTRAD	2010	ELECTRONSK	4430	KENNEDY	2442	
ANITSCH	2011	ELMAN	2224	KENWOOD	2443	
ANITECH	2011	ELIN	2224	KORTING	2444	
ANKARO	2012	ELTA	2230	KRIESLER	3000	
ARC EN CIEL	2013	ELTASAT	2231	KTV	3001	
ARCON	2014	EMERSON	2232	KYOTO	3001	
ARISTONA	2020	ERRES	2233	LENCO	3002	
ARTHUR MARTIN	2021	ESTEL	2233	LENOIR	3003	
ASA	2022	EUROCOM	2234	LEYCO	3002	
ASTRA	2023	EUROPHON	2234	LLOYD	3004	
ASUKA	4312	EXPERT	4303	LOEWE	3010	
ASWO	4341	FENNER	4422	LOEWE OPTA	3011	
ATLANTIC	2024	FERGUSON	2240	LOGIK	3012	
AUDIOSONIC	2030	FIDELITY	2241	LUMA	3013	
AUDIOTON	4240	FILMNET CABLECRYPT	4322	LUXMAN	4400	
AUSIND	2031	FILSAI	4422	LUXOR	3014	
AUTOVOX	2032	FINLANDIA	2242	LXI	3020	
BAIRD	2034	FINLUX	2243	MACAB	3021	
BARCO	2040	FIRST LINE	2244	MAGAI	3022	
BARCOM	2040	FISCHER		MAGNADYNE	3023	
BASIC LINE	2041	FISHER	2244	MAGNFON	3024	
BAUR	4304	FORGESTONE	2300	MAGNASONIC	3030	
BAZIN	2042	FORMENTI	2301	MAGNAVOX	3031	
BEKO	2042	FORMENTI-PHOENIX	2301	MANHATTAN	4321	
BLAUPUNKT	2043	FORTRESS	2302	MARANTZ	3032	
BOOTS	4313	FRACARRO	2303	MASPRO	3033	
BPL	4314	FRONTECH	2304	MATSUI	3034	
BRANDT	2044	FTE	2310	MATSUSHITA	4233	
BRANDT ELECTRONIQUE	2044	FUBA	2311	MAXIMAL	3040	
BRION VEGA	2100	FUJITSH	2312	McMICHAEL	3041	
BRUNS	2101	FUNAI	2312	M ELECTRONIC	4300	
BSR	2102	GALERIA	2313	MEMOREX	3042	
BT SATELLITE	4332	GBC	2313	METZ	3043	
BUSH	2103	GE	2314	MGA	3044	
CABLETIME	4103	GEC	2320	MINERVA	3100	
CAMBRIDGE	2104	GELOSO	2321	MINOLTA	3101	
CAMBRIDGE ARD200	2110	GENEXXA	2322	MISSON	4401	
CAPEHART	2111	GIUCAR RECORD	2323	MISTRAL	3102	
CENTURY	2112	GOLDSTAR	2324	MITSUBISHI	3103	
CGE	2113	GOODMANS	2330	MIVAR	3104	
CHAPARRAL	2114	GORENJE	2331	MNARTT	3104	
CIHAN	2120	GRAETZ	2332	MTC	3110	
CINEMA	2120	GRANADA	2333	MULTISTAR	3111	
CLARIVOX	2121	GRANDIN	2334	MULTITECH	3112	
CLAYTON	2121	GRUNDIG	2334	MURPHY	3113	
COMTEL	2122	HANSEATIC	2341	NAD	4430	
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CONTEC	2130	HEMMER MANN	2343	NATIONAL	3120	
CONTINENTAL	2131	HEXA	4343	NEC	3121	
CONTINENTAL EDISON	2131	HIFIVOX	2344	NECKERMANN	3122	
CRAIG	2132	HIGASHI	4423	NEI	3123	
CROSLEY	2133	HIGH PERFORMANCE	2400	NEIRU	3124	
CROWN	2134	HINARI	2401	NEWTECH	4241	
CTC CLATRONIC	2140	HIRSCHMANN	2402	NIKKAI	3130	
CURTISMATHES	2141	HITACHI	2403	NOBLIKO	3131	
DAEWOO	2142	HYPER	2404	NOGAMATIC	3132	
DAYTRON	2143	IMPERIAL	2410	NOKIA	3134	
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DEGRAAF	2200	INGERSOL	2412	NORDMENDS	3140	
DENON	4342	INNO HIT	2413	NORFOLK	3140	
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DORIC	4244	ITT	2421	ONKYO	4404	
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DYNATRON	2204	JEEMON	2423	OPTONICA	3144	
DUAL	2210	JENSEN	2424	ORION	3200	

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OSAKI	3201	SICATEL	3432	WEGAVOX	4204
OSIO	3202	SIEMENS	3433	WESTMINSTER CABLE	4330
OSUME	3203	SIERA	3434	WHITE WESTINGHOUSE	4210
OTTO VERSAND	3204	SILVA	3440	WINERSAT	4211
P.T ACTRON	3210	SILVER	3441	WINTERNITZ	4212
PACE	3211	SINGER	3442	WISI	4212
PACE MSS SERIES	3212	SINOTEC	4414	WOLSEY	4213
PAEL	3213	SINTRACK	3443	YAMAHA	4214
PALCOM	3214	SINUDYNE	3444	YOKO	4220
PALLADIUM	4410	SOLAVOX	4000	ZANUSSI	4221
PALSAT	3220	SONOKO	4000	ZEHNDER	4222
PANASONIC	3221	SONOLOR	3444	ZENDER	4223
PATHE	3222	SONY	4001	ZENITH	4224
PATHE'CINEMA	3222	SOUND WAVE	4320	ZOPPAS	4230
PATHE'MARCONI	3223	STANDARD	4242		
PAUSA	3213	STARCOM	4232		
PENTAX	3224	STARSAT	4002		
PERDIO	3230	STELLA	4003		
PHILCO	3231	STERN	4004		
PHILIPS	3232	STRONG	4010		
PHOENIX	3233	STS	4011		
PHONOLA	3234	STUDER	4420		
PIONEER	3240	STV	4012		
PMG	4411	SUNKAI	4013		
PORTLAND	3241	SUPERTECH	4013		
PRANDONI-PRINCE	3242	SYLVANIA	4014		
PREMIER	3243	SYMPHONIC	4020		
PRINCE	3244	T+A ELECTRO-	4421		
PROFEX	3300	TANDBERG	4021		
PROLINE	3300	TANDY	4022		
PROSAT	3301	TASHIKO	4023		
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PYE	3303	TEAC	4030		
QUARTZ	3304	TEC	4031		
QUASAR	3310	TECHNICS	4331		
QUELLE	3311	TECHNISAT	4032		
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RADMOR	4412	TELEAVIA	4034		
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RADIX	3314	TELEMAX	4042		
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RCA	3323	TENOSAL	4100		
REALISTIC	3324	TENSAI	4101		
REDIFFUSION	3330	TESLA	4302		
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ROBERTS	3333	TOSHIBA	4111		
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SHORAI	3430	WEGA	4203		
SIAREM	3431	WEGA COLOR	4204		

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