D+M GROUP
PERFORMANCE IS EVERYTHING

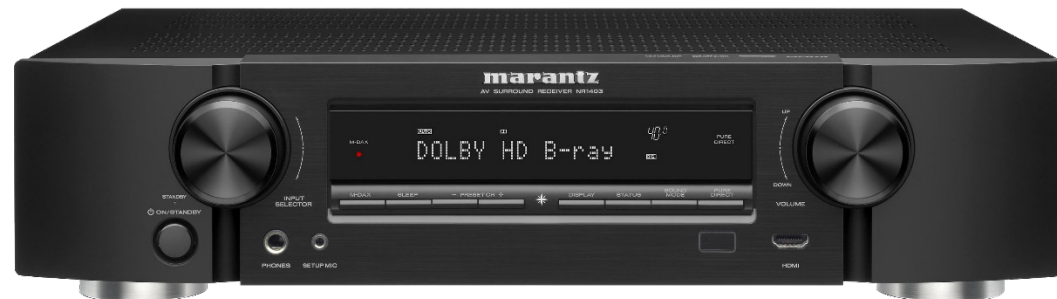| Model Information Index |
| --- |
| Front Panel |
| Rear Panel |
| Remote Control |
| Warranty |
| Reset Procedure |
| Accessories |
| Protection History Display Mode |
| Upgrades/Updates |
| Product Specifications |
| I/R Codes |

Model Information

INTEGRATED NETWORK AV RECEIVER

NOTE:
This edition is missing the link to the IR codes……………………………………………………………………………………….. 12/08/2016
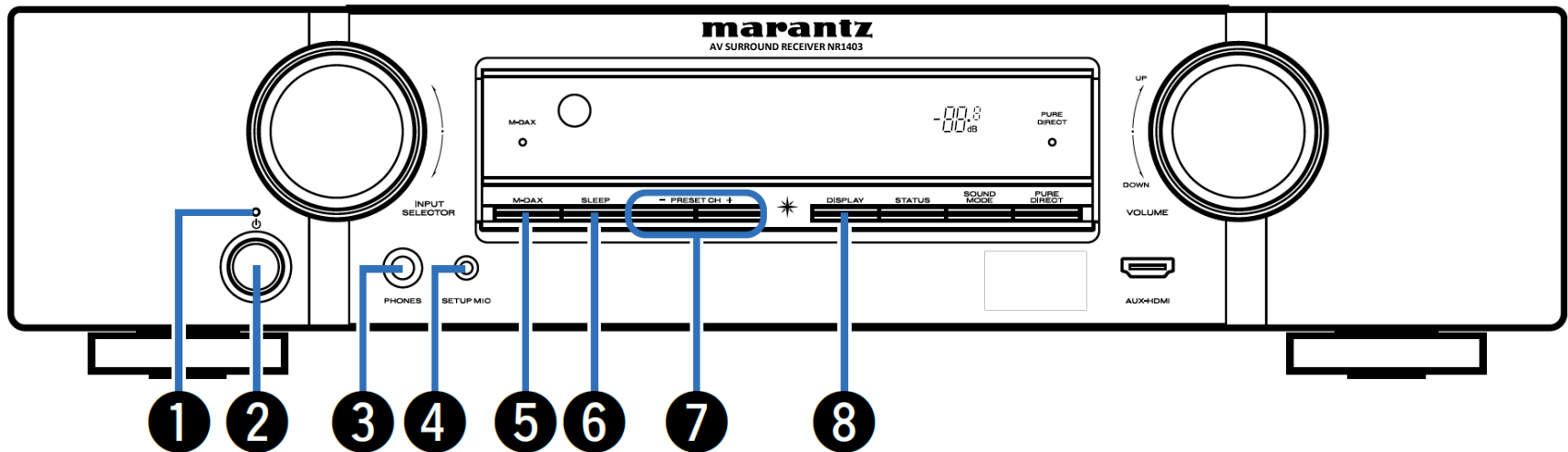
Power indicator

① Power indicator

This is lit as follows according to the power status:

- Off: Power on
- Red: Normal standby
- Orange:
  - When "HDMI Pass Through" is set to "On"
  - When "HDMI Control" is set to "On"
  - When "Network Control" is set to "Always On".

② Power operation button

This turns the power on/off (standby)

③ Headphones jack (PHONES)

Used to connect headphones.

When the headphones are plugged into this jack, audio will no longer be output from the connected speakers or from the PRE OUT connectors.

NOTE

To prevent hearing loss, do not raise the volume level excessively when using headphones.

④ SETUP MIC jack

Used to connect the supplied Setup and measurement microphone.

⑤ M-DAX button

This enables the M-DAX mode.

⑥ SLEEP button
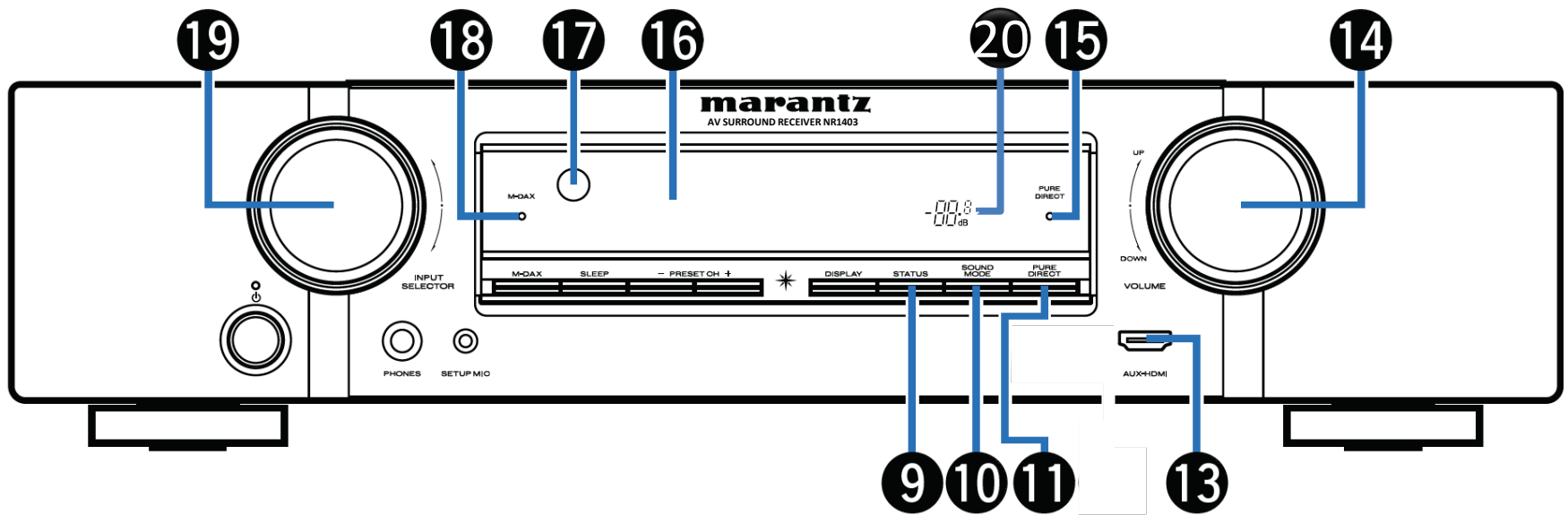
This sets the sleep timer.

⑦ Tuner preset channel buttons (PRESET CH +, −)

These select preset FM/AM radio stations.

**⑧ DISPLAY button**

This displays various pieces of information

HOME   **Front Panel Open (2 of 2)**

⑨ STATUS button
Each press of this switches the status information that is shown on the display.

⑩ SOUND MODE button
This switches the sound mode.

⑪ PURE DIRECT button
This switches the sound mode between DIRECT, PURE DIRECT and AUTO.

⑫ USB port
Used to connect USB storages (such as USB memory devices) and the USB cable supplied with iPod.

⑬ AUX-HDMI connector
Used to connect devices such as video camcorders and game consoles.

⑭ VOLUME knob
This adjusts the volume level.

⑮ PURE DIRECT indicator
This lights when the PURE DIRECT mode is selected as the sound mode.

⑯ Display
This displays various pieces of information.

⑰ Remote control sensor
This receives signals from the remote control unit.

⑱ M-DAX indicator
This lights when the M-DAX mode is selected.

⑲ INPUT SELECTOR knob
This selects the input source

⑳ Master volume indicator

FRONT PANEL (1 of 2) | HOME | DISPLAY

3

Main Display
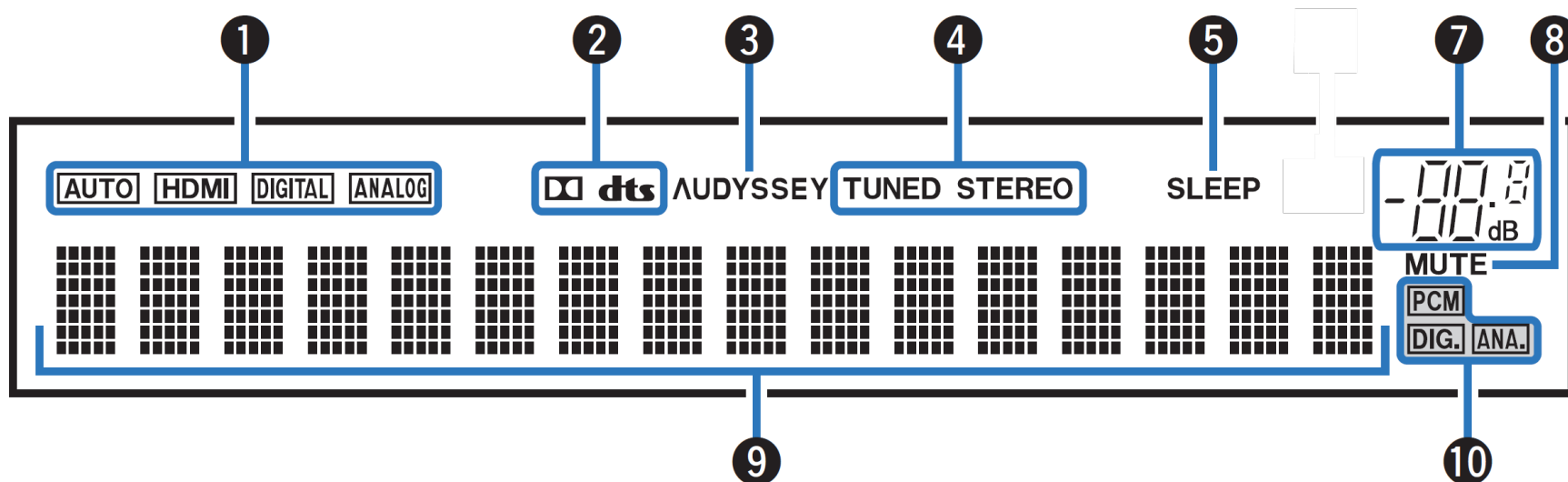
① Input mode indicators
These light according to the audio input mode settings of each input source.

② Decoder indicators
These light when Dolby or DTS signals are input or when the Dolby or DTS decoder is running.

③ Audyssey® indicator
This lights when "MultEQ®", "Dynamic EQ" or "Dynamic Volume" has been set up.

④ Tuner reception mode indicators
These light up according to the reception conditions when the input source is set to "Tuner".
TUNED: Lights up when the broadcast is properly tuned in.
STEREO: Lights up when receiving FM stereo broadcasts.

⑤ Sleep timer indicator
This lights when the sleep mode is selected.

⑦ Volume indicator

⑧ MUTE indicator
This blinks while the sound is muted.

⑨ Information display
The input source name, sound mode, setting values and other
information are displayed here.

⑩ Input signal indicators
The respective indicator will light corresponding to the input signal.

FRONT PANEL (2 of 2)　　HOME　　MAIN DISPLAY

4

Rear Panel
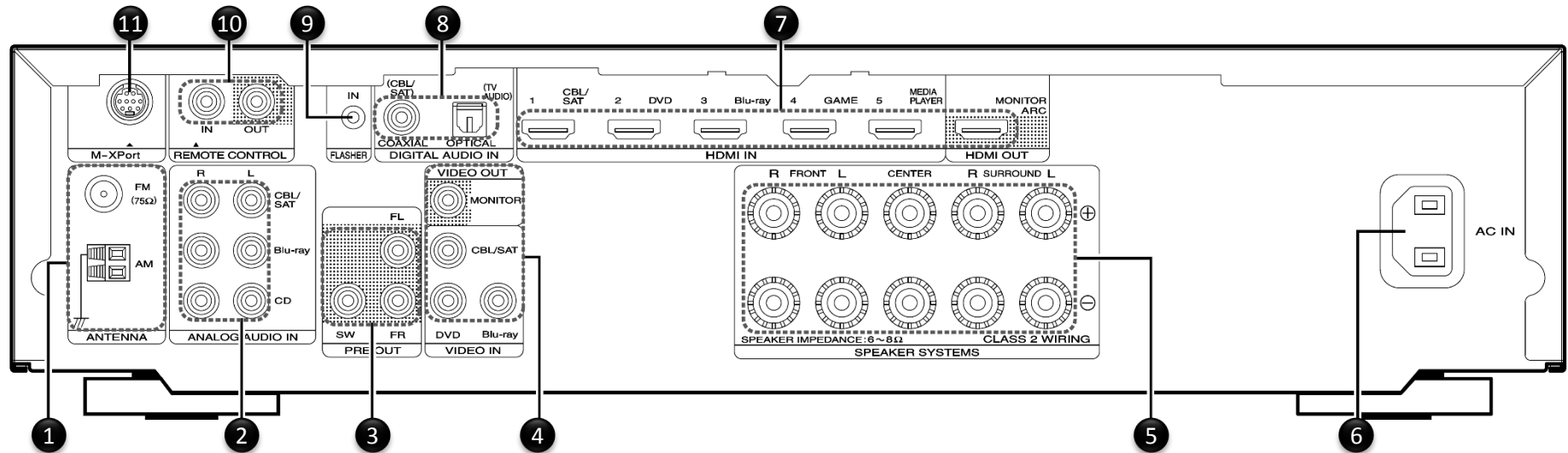
1 **FM/AM antenna terminals (ANTENNA)**
Used to connect FM and AM antennas.

2 **Analog audio connectors (AUDIO)**
Used to connect devices equipped with analog audio connectors.

3 **PRE OUT connectors**
Used to connect a subwoofer with a built-in amplifier.

4 **Video connectors (VIDEO)**
Used to connect devices equipped with video connectors.

5 **Speaker terminals (SPEAKERS)**
Used to connect speakers.

6 **AC inlet (AC IN)**
Used to connect the power cord.

7 **HDMI connectors**
Used to connect devices equipped with HDMI connectors

8 **Digital audio connectors (DIGITAL AUDIO)**
Used to connect devices equipped with digital audio connectors.

9 **FLASHER IN jack**
Used when using a control BOX or other such control devices to control this unit.

10 **REMOTE CONTROL connectors**
Used to connect infrared receivers/transmitters in order to operate this unit and external devices from a different room.

11 **M-XPort connector**
Used to connect to a wireless receiver (RX101, sold separately).
NOTE:
• Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
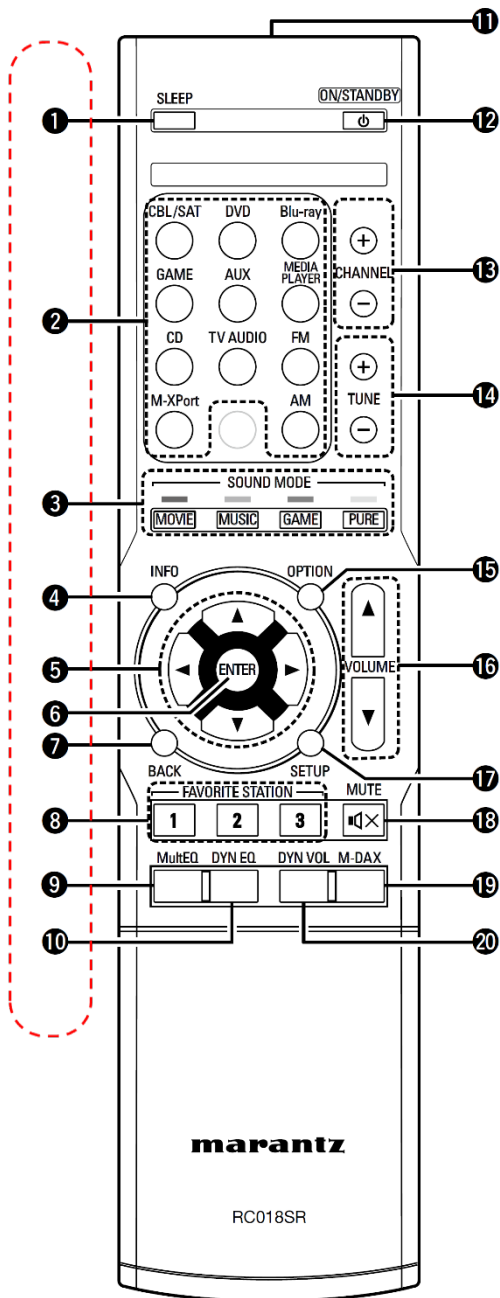
① SLEEP button
This sets the sleep timer.

② Input source select buttons
These select the input source.

③ SOUND MODE buttons
These select the sound mode.
• MOVIE button
• MUSIC button
• GAME button
• PURE button

④ Information button (INFO)
This displays the status information on the TV screen (vpage 159).

⑤ Cursor buttons (▲▼◄►)
These select items.

⑥ ENTER button
This determines the selection.

⑦ BACK button
This returns to the previous screen.

⑧ FAVORITE STATION buttons (1 – 3)
With a single press of these, you can call up registered radio stations and contents

⑨ MultEQ button

⑩ Dynamic EQ button (DYN EQ)

REAR PANEL   HOME
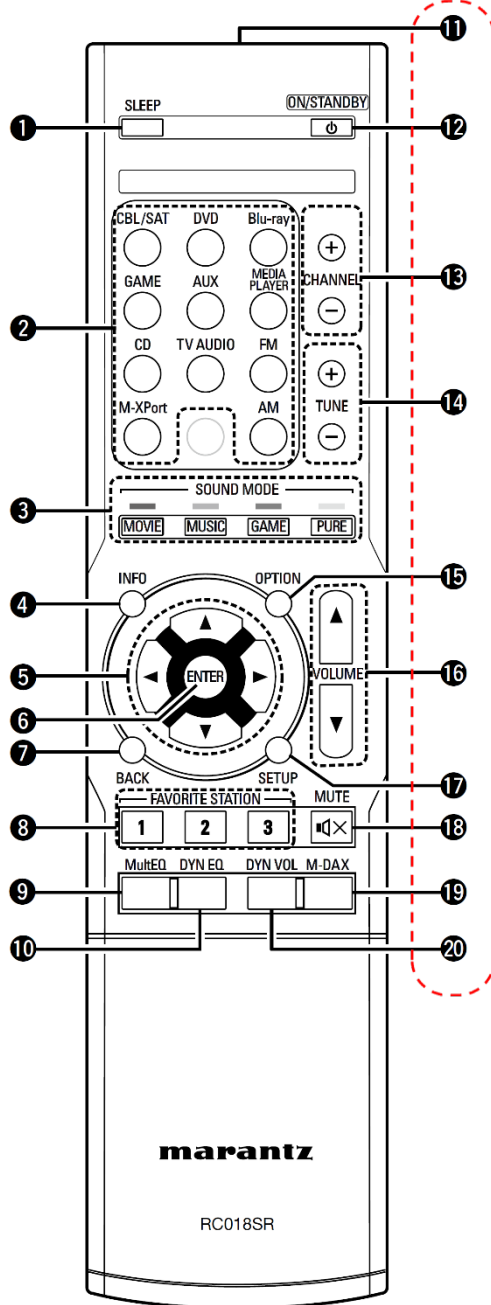
⑪ **Remote control signal transmitter**
This transmits signals from the remote control unit.

⑫ **ON/STANDBY button**
This turns the power on/off.

⑬ **Channel buttons (CHANNEL +, −)**
These select preset radio stations.

⑭ **Tuning up / Tuning down buttons (TUNE +, −)**

⑮ **OPTION button**
This displays the option menu on the TV screen.

⑯ **VOLUME buttons (▲▼)**
These adjust the volume level.

⑰ **SETUP button**
This displays the menu on the TV screen.

⑱ **MUTE button**
This mutes the output audio

⑲ **M-DAX button**

⑳ **Dynamic Volume button (DYN VOL)**

REMOTE CONTROL (1 of 2)   HOME   WARRANTY

This warranty will be honored only in the **U.S.A.**

Length of Non-Transferable Warranty
This warranty on your Marantz product which is distributed and warranted by Marantz America Inc. remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS (USA), LLC DEALER.

3 year warranty for both Parts & Labor, from the original purchase date
1 year for refurbished (B-Stock) units

MARANTZ AMERICA, Inc.
(a D&M Holdings Company)
100 Corporate Drive
Mahwah, NJ 07430-2041
(201) 762-6666
www.usa.Marantz.com

MARANTZ FACTORY SERVICE by PANURGY OEM
701 Ford Road (South Dock)
Rockaway, NJ 07866-2053
(973) 625-4056
(973) 625-9489 Fax
http://www.panurgyoem.com/Denon/Denonrepair.html

See the next page for more information about the Marantz limited warranty

What is covered and what is not covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty.

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
   - Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
   - Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
   - Repair or attempted repair by anyone not authorized by Marantz to repair the product.
   - Any shipment of the product (claims must be presented to the carrier).
   - Any cause other than a product defect.
2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
3. Any product on which the serial number has been defaced, modified or removed.
4. Batteries.
5. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.
6. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

Who may enforce the warranty?

This warranty may be enforced only by the original purchaser.

What we will pay for

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How you can get service

- If your unit needs service, contact Marantz customer service by calling 201-762-6666. We will advise you of the name and location of one or more authorized Marantz service stations from which service can be obtained. Please do not return your unit to the factory without prior authorization.
- You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within the United States, its possessions or territories.
- Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitations of implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.
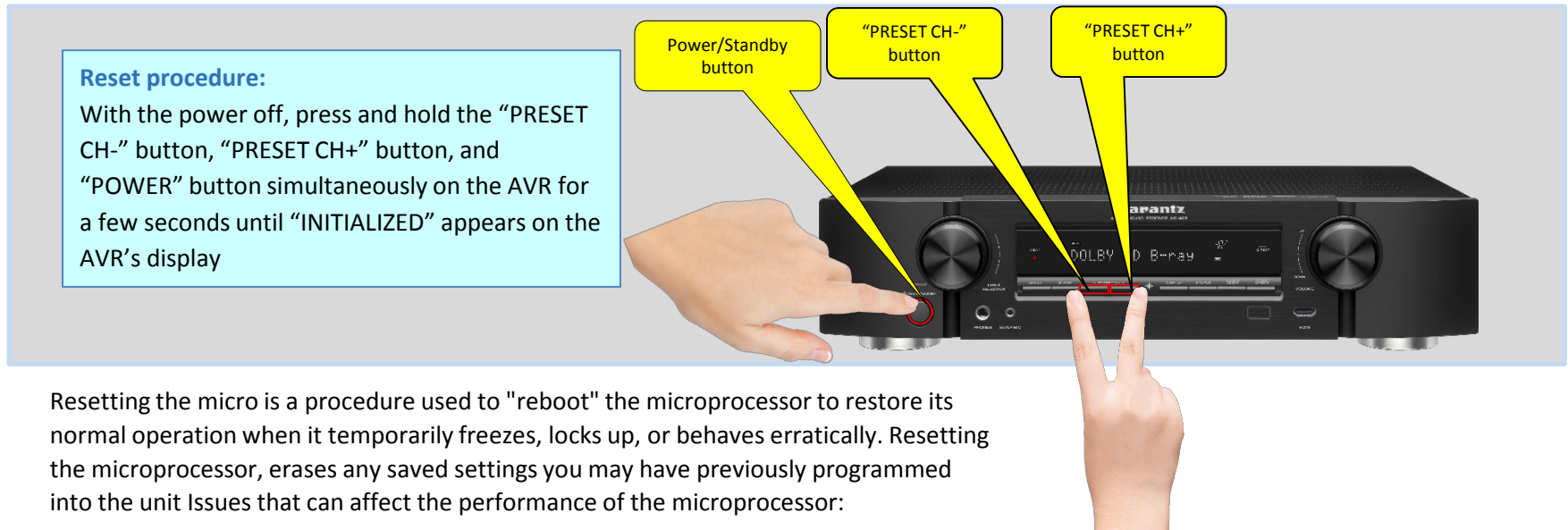
Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

How the law relates to the warranty

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Warranty (1 of 2)   HOME   RESET

Important: Back up the settings before resetting the microprocessor. Most settings are reset to the factory default values after performing this procedure. This means that all the settings data will be completely lost if it's not previously saved.

Reset procedure:

With the power off, press and hold the "PRESET CH-" button, "PRESET CH+" button, and "POWER" button simultaneously on the AVR for a few seconds until "INITIALIZED" appears on the AVR's display

Power/Standby button

"PRESET CH-" button

"PRESET CH+" button

Resetting the micro is a procedure used to "reboot" the microprocessor to restore its normal operation when it temporarily freezes, locks up, or behaves erratically. Resetting the microprocessor, erases any saved settings you may have previously programmed into the unit Issues that can affect the performance of the microprocessor:

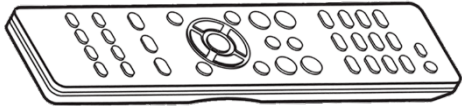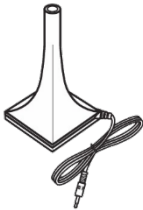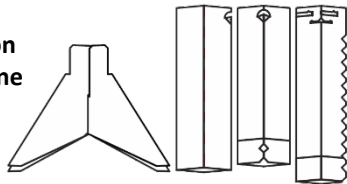- A jolt of static electricity
- Current surge through an input
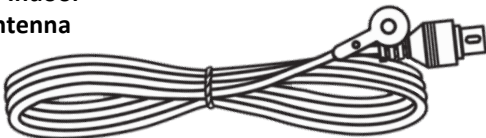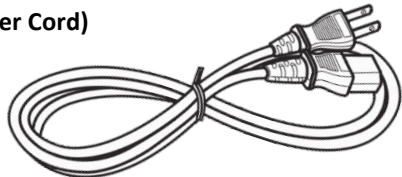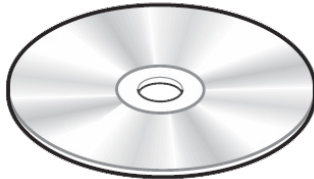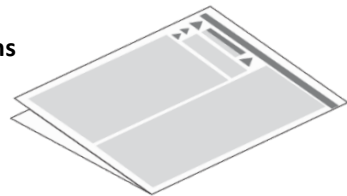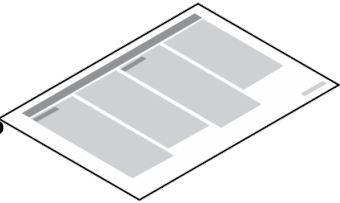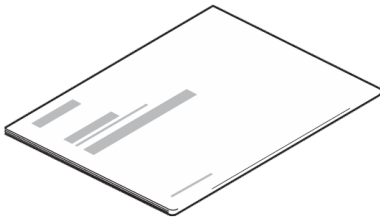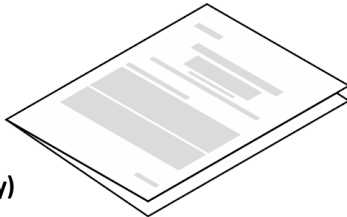
Before resetting the microprocessor;

- Check all connections carefully
- Check for setup errors
- Back up your settings. You may also want to write down your preferred settings for easier task of setting up the AVR after reset.

Note: The Web (Browser) Control feature can be used to back up your settings by saving a configuration file on your hard drive. For this feature, we recommend using one of the following web browsers: Internet Explorer 10 and above, Mozilla Firefox 24 and above, Google Chrome 29 and above, and Safari 5.x and above.

Note: If you had an installer setup your system, please first contact your installer to see if they can reset and then setup your system again as there may be specific EQ calibrations (Audyssey) that the installer will need to perform.

Accessories

Remote Control (RC018SR)	Sound Calibration Microphone (ACM1HB)	Sound Calibration Microphone Stand
30701009800AM — $	32401000800AD — $31.99	963549101000D — $16.82
AM Loop Antenna	FM Indoor Antenna	Power Cord)
963116100070S — $8.99	963116100080S — $3.27	90M-ZC000470R — $30.64
	CD ROM Owner's Manual	Safety Instructions
Notes on Radio	Quick Start Guide	Warranty (For North America Only)

RESET

HOME

FAQ's

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Dolby Atmos, DTS:X and Auro-3D Upgradeable

Dolby Atmos and DTS:X surround sound technologies dispense with channel-based coding in favor of object-based coding, giving the sound designer the ability to precisely place sounds anywhere in the 3-dimensional space. The NR1403, features the ability to connect a 5.1 surround sound speaker system and 4 additional overhead speakers (or 4 additional Dolby Atmos elevation speakers) for the ultimate home cinema experience. Thanks to the 11ch processing capability, you can just add an external 2-channel amplifier and even enjoy a thrilling 7.1.4 channel Dolby Atmos or DTS:X experience. Dolby Surround Upmixer and DTS Neural:X Upmixer are also in place to simulate 3D sound from standard formats.

Auro-3D Upgrade
By fully immersing the listener in a cocoon of life-like sound, Auro-3D puts you right in the middle of the action. Auro-3D provides an immersive surround sound experience thanks to dedicated height and overhead channels, in addition to the regular channels. The height information, captured in recording or created during the mixing process, is mixed into a standard 5.1 PCM stream that comes with a regular Blu-ray. Moreover, the Auro-3D engine recognizes mono, stereo, 5.1 surround or an Auro-encoded signal and transforms them into 3D audio. Once upgraded with the Auro-Codec decoder, the NR1403 is capable of decoding the original Auro-3D mix and playing back an Auro-3D 10.1 channel configuration (with external amplifier). **Auro-3D upgrade availability and pricing to be announced.**

Visit **http://upgrade.Marantz.com** for upgrade information.

FAQ's 2 | HOME | Upgrades/Updates (2 of 2)

14

Firmware:

This unit has the ability to update its firmware over the internet if so is selected by the user. When connected to a network via Wi-Fi or Ethernet, the AVR searches automatically for new updates and if any is found, a message appears on the screen for approx. 40 seconds with the options of updating the firmware: "NOW", "LATER", or "IGNORE". Note: This feature of displaying the update message, can be disable from the "Setup" menu (Setup/General/Firmware/Notifications/Update or Upgrade/Off).

If the update process is interrupted, *"Update retry"* appears on the display and the unit tries repeatedly to continue the update until it either reconnects and picks up where it left off and continue the update process or times itself out after trying several times. When the latter occurs, one of the following messages will appear on the screen.

Connection fail	Download fail	Updating fail	Server is busy	Login failed

To Check for Firmware Update from the Marantz server when the unit is connected to the internet via the Ethernet port (When Firmware Notification is turned off).
Press "SETUP" and select "GENERAL" and then select "FIRMWARE" followed by "UPDATE" and finally, select "CHECK FOR UPDATE".
Note: This will also check the time it will approximately take to complete the update.

To check to see if an update or upgrade is available for your NR1403 and also to download the latest version of firmware, click on the following link:
http://www.us.marantz.com/us/support/pages/productupdates.aspx
Note: A list of "Recent Updates/Upgrades is also available at this link"

Specifications – Audio Section

Audio section			
Power amplifier	Rated output	Front	50 W + 50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
		Center	50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
		Surround	50 W + 50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
	Maximum effective output power	Front	80 W + 80 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.)
		Center	80 W + 80 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.)
		Surround	80 W + 80 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.)
	Output connector		6 – 8 Ω/ohms
Analog	Input sensitivity/Input impedance		130 mV/47 kΩ/kohms
	Frequency response		10 Hz – 100 kHz — +1, −3 dB (Direct mode)
	S/N		98 dB (IHF–A weighted, Direct mode)

Specifications - Video section, Tuner Section, Wireless LAN Section

Video section		
Standard video connectors	Input/output level and impedance	1 Vp-p, 75 Ω/ohms
	Frequency response	5 Hz -10MHz, 0, - 3dB

Tuner section			
	FM		AM
	Note: µV at 75 Ω/ohms, 0 dBf = 1×10^{-15} W		
Reception frequency range	87.50 MHz - 107.90 MHz		520 KHz - 1710 KHz
Effective sensitivity	1.2 µV (12.8 dBf)		18µV
50 dB sensitivity	Mono – 2.8 µV (20.2 dBf)		
S/N ratio	Mono	70 dB	
	Stereo	67 dB	
Distortion	Mono	0.7 % (1KHz)	
	Stereo	1.0 % (1KHz)	

General section	
Power supply	AC 120V, 60Hz
Power consumption	180W
Power consumption in standby mode	0.2W
Power consumption in CEC standby mode	0.5W

For purpose of improvement, specifications and design are subject to change without notice.

Specifications – Dimensions, Weight

Dimensions section (Unit : inch/mm)

57/64 (22.5)

12 15/16 (328.5)

14 29/64 (367.0)

5/8 (16.0)

1 57/64 (48.0)

8 55/64 (225.0)

2 3/16 (55.5)

17 21/64 (440.0)

3 9/16 (90.5)

4 9/64 (105.0)

2 11/64 (55.0)

37/64 (14.5)

1 31/32 (50.0)

13 25/64 (340.0)

1 31/32 (50.0)

Weight: 18 lbs 5 oz (8.3 kg)

SPECIFICATIONS - AUDIO

SPECIFICATIONS - VIDEO – TUNER – GENERAL

HOME

Protection History Display Mode (Front Panel Buttons)

Model Information Index
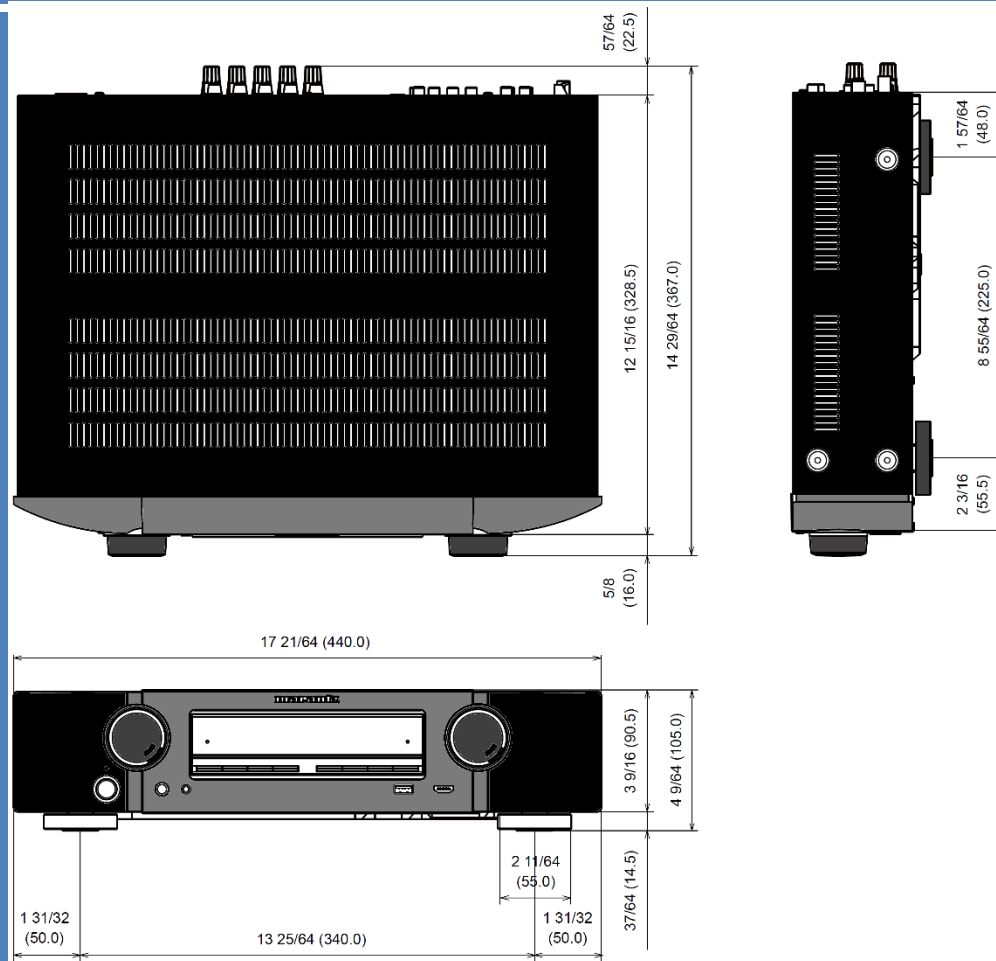
Protection History Mode records and displays an event in which the THERMAL, CURRENT, ASO or DC protection was activated.

POWER   **TUNER PRESET CH-**   **DISPLAY**   **STATUS**
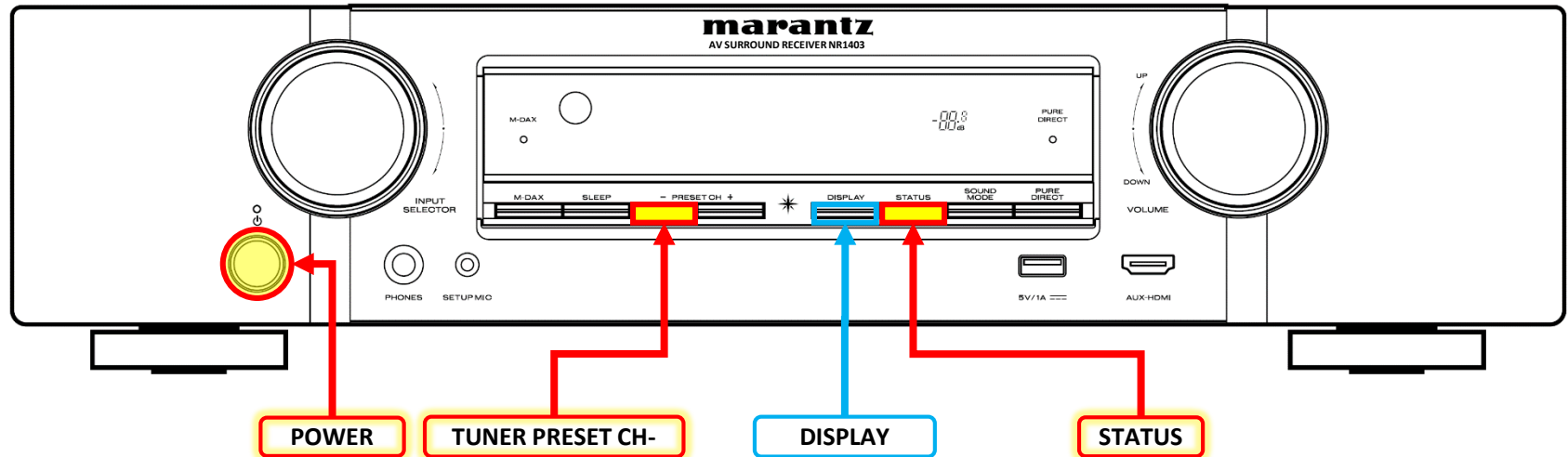
Procedure to enter the "Protection History Display Mode".
1. Press and hold the **"TUNER PRESET CH-"** and the **"STATUS"** buttons at the same time and press the **"POWER"** button to turn on the power.
2. The unit enters the **"Diagnostic Mode/Service Check Mode"** (Protection History Display, Service Check and OP Info.) and **"SERVICE CHECK"** is first displayed.
3. Press the "PRESET CH +" button to select the mode and press the "STATUS" button to restart the set and make the setting take effect.
4. Press the **"STATUS"** button to display Protection History.

Specs – Dimensions/Weight   HOME   Protection History Display Mode Procedure

Model Information Index

1. If no protections have occurred, "No Protect" is displayed	`N O   P R O T E C T`

2. if last protection was ASO, "ASO" is displayed.	`P R T : A S O`

Cause: A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected. If the power is turned on during this abnormality, protection is activated after around 5 seconds and the power is turned off.

3. If the last protection was DC, "DC" is displayed.	`P R T : D C`

Cause: DC output of the power amplifier is abnormal.
If the power is turned on during this abnormality, protection is activated after around 5 seconds and the power is turned off.

4. If the last protection was THERMAL A or B "THERMAL A, or B is displayed.	`P R T : T H E R M A L   A` `P R T : T H E R M A L   B`

Cause: Abnormal heat sink temperature.
If the power is turned on during this abnormality, protection is activated after around 5 seconds and the power is turned off.

Caution: These protections may also be activated due to causes such as disconnection of connectors or operations around the microcomputer.
After viewing the above protection history, press the button "**STATUS**" to return to the normal display.

Front Panel and Button Locations

HOME

Clearing the Protection History

Model Information Index

Clearing the Protection History

If the unit is in "Protection History Display Mode", just press and hold the **"DISPLAY"** button for 3 seconds. **Note:** If you do not mind erasing your settings from this unit, you can also "Initialized/Micro Reset the unit to clear the Protection History from the unit's memory.

If the unit is not in "Protection History Display Mode", **enter the "Protection History Display Mode":**

Press the "**TUNER PRESET CH+/-**" buttons to switch modes and press the **"STATUS"** button when "**Protection History Display Mode**" is displayed.

Press the "**STATUS**" button and the unit will display the Protection History condition.

Press and hold "**DISPLAY**" for 3 seconds.	`PRT: DC`
Press and hold "**DISPLAY**" for 3 seconds and "CLEAR" is displayed followed by "NO PROTECT". The unit's Protection History is now cleared.	`PRT: CLEAR` `NO PROTECT`

Warning Displays by POWER LED

If the power is turned off while a protection is detected, the POWER LED (red) flashes in the following ways as a warning according to the protection status.
(a) ASO/DC protection: Flashes in 0.5-second cycles (0.25 seconds lit, 0.25 seconds unlit)
(b) THERMAL (A/B) protection: Flashes in 2-second cycles (1 seconds lit, 1 seconds unlit)

Protection History Display Mode Procedure | HOME | Front Panel and Button Locations

The End

NOTE:
This edition is missing the link to the IR Codes………………………………………………………………………...12/08/2016

HOME