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NAD D3045 Hybrid Digital Amplifier User Manual

Model: D3045

1. PRODUCT OVERVIEW

The NAD D3045 is a Hybrid Digital Amplifier designed to deliver high-fidelity audio performance with versatile connectivity options. It features NAD's moving magnet phono preamplifier for vinyl playback, and both analog and digital inputs for various audio sources, including CDs. The integrated hi-res DAC supports advanced digital audio. An HDMI ARC input allows seamless integration with televisions, enabling control with your TV's remote. A dedicated subwoofer output is also included for enhanced bass reproduction.



Figure 1: Angled view of the NAD D3045 Hybrid Digital Amplifier, showcasing its compact design and front panel controls.

Key Features:

- 2 x 60W Hybrid Digital Amplifier with low distortion and high current capability.
- Two-Way Bluetooth powered by Qualcomm aptX HD audio for high-quality wireless streaming.
- Asynchronous USB 24/192 Input supporting MQA and DSD for high-resolution digital music playback.
- HDMI Audio Return Channel (ARC) for easy connection to your TV.
- Coaxial and Optical Digital Inputs, MM Phono Input, and Line Input for increased connectivity.
- Preamp Out and Sub Out for system expansion.
- Built-in headphone amplifier with front-panel 3.5mm minijack output.
- IR Remote Control included for convenient operation.

2. SETUP

2.1 Connections

Before making any connections, ensure the D3045 and all source components are powered off and unplugged from the AC mains outlet. Use high-quality cables for optimal performance.





Figure 2: Rear panel connections of the NAD D3045, including speaker terminals, digital and analog inputs, and HDMI ARC.

2.1.1 Speaker Connection

Connect your passive speakers to the D3045's speaker terminals. Ensure correct polarity: connect the red (+) terminal on the amplifier to the red (+) terminal on the speaker, and the black (-) terminal on the amplifier to the black (-) terminal on the speaker. Use appropriate gauge speaker wire.

2.1.2 Source Device Connection

- **HDMI ARC:** Connect an HDMI cable from the D3045's HDMI ARC port to your TV's HDMI ARC port. This allows audio from your TV to be played through the D3045 and enables TV remote control integration.
- **Optical/Coaxial:** Connect digital audio sources (e.g., CD player, media streamer) to the OPTICAL 1/2 or COAXIAL inputs using appropriate digital audio cables.
- **USB:** Connect a computer to the USB-B input for high-resolution audio playback.
- **Phono (MM):** Connect a turntable with a Moving Magnet (MM) cartridge to the PHONO input. Ensure the turntable's ground wire is connected to the D3045's GND terminal.
- **Line In:** Connect analog audio sources (e.g., CD player, tape deck) to the LINE 1 or LINE 2 RCA inputs.

2.1.3 Subwoofer Connection

If using an active subwoofer, connect its line-level input to the D3045's SUB OUT port using an RCA cable.

2.1.4 Power Connection

After all audio connections are made, connect the supplied AC power cord to the D3045's AC mains input and then to a suitable wall outlet.

2.2 Initial Power-up

Press the power button on the front panel or the remote control to turn on the D3045. The unit will perform a brief startup sequence. Select your desired input source.

3. OPERATING INSTRUCTIONS

3.1 Front Panel Controls





-20°
dB
COMPUTER



Figure 3: Front panel of the NAD D3045, highlighting the volume and source selection knobs, and the headphone jack.

- **Power Button:** Located on the front panel, used to turn the unit on or off.
- **Volume Knob:** Adjusts the overall output volume. Rotate clockwise to increase, counter-clockwise to decrease.
- **Source Knob:** Rotates to cycle through available input sources (e.g., Optical, Coaxial, USB, Phono, Line 1, Line 2, Bluetooth, HDMI ARC). The selected source is indicated on the display.
- **Headphone Jack:** 3.5mm output for connecting headphones. Plugging in headphones will mute the main speaker outputs.

3.2 Remote Control

The included IR remote control provides convenient access to power, volume, source selection, and other functions from a distance. Point the remote directly at the D3045's front panel sensor for optimal operation.

3.3 Bluetooth Operation

To pair a Bluetooth device:

1. Select 'Bluetooth' as the source on the D3045.
2. Enable Bluetooth on your mobile device and search for 'NAD D3045'.
3. Select the D3045 to pair. Once paired, audio from your device will stream wirelessly to the amplifier.

3.4 USB Audio Playback

When connected to a computer via the USB-B input, the D3045 acts as an external sound card. Ensure appropriate drivers are installed on your computer if required (refer to NAD's website for driver information). Select 'USB' as the source on the D3045 to enable playback.

3.5 HDMI ARC Functionality

With HDMI ARC connected, the D3045 can receive audio from your television. Many TVs also support CEC (Consumer Electronics Control), allowing you to control the D3045's volume and power with your TV remote. Enable ARC and CEC functions in your TV's settings if available.

4. MAINTENANCE

4.1 Cleaning

To clean the D3045, use a soft, dry cloth. Avoid using abrasive cleaners, waxes, or solvents, as these can damage the finish. Ensure the unit is unplugged before cleaning.

4.2 Storage

If storing the unit for an extended period, unplug it from the power outlet and store it in a cool, dry place, away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your D3045, refer to the table below for common problems and solutions.

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem | Possible Cause | Solution |
|----------------------------|---|---|
| No power | Power cord not connected; power outlet not active | Ensure power cord is securely connected; check power outlet with another device. |
| No sound | Incorrect source selected; speaker cables loose; volume too low; headphones connected | Select correct input source; check speaker cable connections; increase volume; disconnect headphones. |
| Bluetooth pairing fails | D3045 not in pairing mode; device too far; device already paired to another unit | Ensure D3045 is on Bluetooth input; move device closer; unpair from other devices. |
| Remote control not working | Batteries depleted; obstruction; remote not pointed correctly | Replace batteries; remove obstructions; point remote directly at the D3045's sensor. |
| Humming or buzzing sound | Ground loop; faulty cables; interference | Check all cable connections; try different cables; ensure proper grounding for turntable. |

6. SPECIFICATIONS

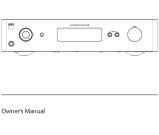
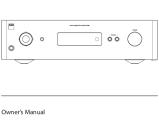
Detailed technical specifications for the NAD D3045 Hybrid Digital Amplifier.

| Specification | Value |
|-----------------------------|----------------------------|
| Output Power | 2 x 60 Watts |
| Number of Channels | 2 |
| Item Dimensions (L x W x H) | 10.44 x 2.81 x 9.31 inches |
| Item Weight | 5.7 pounds |
| Voltage | 12 Volts (DC) |
| Maximum Supply Voltage | 12 Volts (DC) |
| Material | Plastic |
| Mounting Type | Surface Mount |
| Specification Met | Qualcomm (aptX HD) |
| Date First Available | October 25, 2018 |

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official NAD Electronics website. You can also contact NAD customer service for assistance with product registration, troubleshooting, and service inquiries.

Related Documents - D3045

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|---|--|
|  Owner's Manual | <p>NAD D 3020 Hybrid Digital Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the NAD D 3020 Hybrid Digital Amplifier, detailing safety instructions, setup, operation, features, and technical specifications.</p> |
|  Owner's Manual | <p>NAD C 389 Hybrid Digital DAC Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the NAD C 389 Hybrid Digital DAC Amplifier, covering safety instructions, setup, control identification, operation, and technical specifications. Includes details on front panel, rear panel, and remote control functions, as well as system settings and performance specifications.</p> |
|  Owner's Manual | <p>NAD C 399 Hybrid Digital DAC Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the NAD C 399 Hybrid Digital DAC Amplifier, covering safety instructions, front and rear panel controls, remote operation, setup, and specifications.</p> |
|  Owner's Manual | <p>NAD AMP 1 Hybrid Digital DAC Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the NAD AMP 1 Hybrid Digital DAC Amplifier. This guide provides essential safety instructions, setup procedures, details on controls and connections, feature explanations, and technical specifications for the NAD AMP 1.</p> |
|  Owner's Manual | <p>NAD C368 Hybrid Digital DAC Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the NAD C368 Hybrid Digital DAC Amplifier, covering safety instructions, setup, operation, controls, specifications, and troubleshooting. Learn how to connect, configure, and use your amplifier for optimal audio performance.</p> |
|  Owner's Manual | <p>NAD D 3020 Hybrid Digital Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the NAD D 3020 Hybrid Digital Amplifier, detailing setup, operation, features, and specifications. Learn how to connect speakers, sources, and utilize advanced functions like Bluetooth and TV Connect.</p> |