

NGTD1

EN User manual

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1. Important

Safety

- Please read and understand all the instruction before you use the apparatus. Misuses are excluded from the warranty.
 - This unit is designed for negative ground (earth) 12VDC operation only.
 - Use only the supplied mounting hardware for safe and secure installation.
 - To ensure safe driving, adjust the volume to a safe and comfortable level.
 - To avoid short, never pour water on the product or place the product into the wet environment.
 - Never expose the apparatus to direct sunlight, naked flames or heat.
 - Clean the apparatus with soft, damp cloth. Never use substances such as alcohol, chemical or household cleaners on the apparatus.
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Notice

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easily to separate into three material: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.









The appearance, parameter and the accessories of the product follows what it is.

Specifications are subject to change without notice. Trademarks are the property of Nakamichi or their respective owners. Nakamichi reserves the right to change products at any time without being obliged to adjust the earlier supplies accordingly.

2. System Equipment

Thank you for your purchase, and welcome to Nakamichi! In order to enjoy the better service from us, please keep your original invoice well and complete the warranty card. You'd better post the copy of the warranty card back to the appointed service agent of Nakamichi, so that you may get more technical support.

Accessory List

1. Owner's Manual		1piece
2. Mounting Screw		4pieces
3. Allen Key		1piece
4. Fuse		1piece
5. Wire Stock		1piece
6. Wire control box		1piece
7. Control box of cable		1piece
8. Velcro		4pieces

Feature

- ◆ NGTD1 use high quality double Layer PCB.
- ◆ Uniquely designed high efficient power transformer.
- ◆ Power supply switching FET.
- ◆ NGTD1 product have high/low pass circuit switching function .
- ◆ Use Class-D circuitry.
- ◆ Power and protect indicators.

3. Installation

Warning: Play music too loud in an automobile can hinder your ability to hear the traffic and permanently damage your hearing. We recommend listening at low or moderate levels while driving. Nakamichi accepts no liability for hearing loss, bodily injury or property damage resulting from the use or misuse of this product.

Important: To get the best performance from your Nakamichi NGTD Series amplifiers, we strongly recommend that installation be entrusted to a qualified professional.

Although the instruction explains how to install this amplifiers in a general sense, they do not show specific installation methods that may be required for your particular vehicle.

If you do not have the necessary tools or experience, do not attempt the installation yourself. Instead, please ask your authorized Nakamichi car audio dealer about professional installation.

Installation Warnings and Tips

- ◆ Always wear protective eyewear when using tools.
- ◆ Turn off all audio systems and other electrical devices before you start. Ensuring the safety of the positive connection.
- ◆ Make sure that both sides of the planned mounting surface are clean before drilling or installing any screws . Remember that the screws can pass through the barrier .
- ◆ At the installation sites, locate and make a lot of all fuel lines, hydraulic brake lines, vacuum lines, and electrical wiring. Use extreme caution when cutting or drilling in and around these areas.
- ◆ Before drilling of cutting holes, use a utility knife to remove unwanted fabric or vinyl to keep material from snagging in drill bit.
- ◆ When routing cables, keep input-signal cables away from power cables and speaker wires.
- ◆ When making connections, make certain they are secure and properly insulated.

Choosing a Mounting Location

Amplifiers need air to stay cool. Suitable locations are under a seat. (Provided the amplifier doesn't interfere with the seat adjustment mechanism), in the trunk, or in any other location which provides enough air for the amplifier to cool itself. For the heat sink of the Nakamichi on the both side, Note convection cooling of the both heat sink, and keep the bottom or top of the amplifier no-touching any fabric or vinyl material.

Mounting Dimensions

Mount the amplifier so that it remains dry, and attaches the amplifier to the mounting surface with screws. Make sure the amplifier is mounted securely.

Power Connection

Connect a wire directly to the vehicle's positive battery terminal, and install an appropriate fuse holder within 400mm of the battery terminal. Route the wire to the Amplifier's location, and connect it to the Amplifier's positive terminal (+12V). Be sure to use appropriate grommets whenever routing wires through the firewall or other sheet metal. Failure to adequately protect the positive wire from potential damage may result in a vehicle fire. When you have done routing and connecting this wire, you may install the fuse near the battery.

Remote Connections

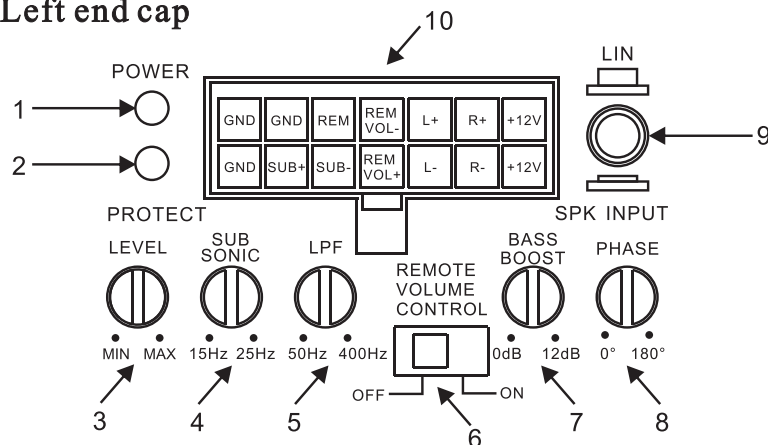
Connect the amplifier's Remote (REM) terminal to the source unit's remote turn on lead using a minimum of 18-gauge wire.

Speaker Connections

Speaker connections should be made use a minimum of 12-gauge wire.

4. Control Function

Left end cap



1. Indicator Light

Indicator Light	Status
Red light on	Expression power amplifier in the protection state (out put short circuit protection)
Green light on	Expression power amplifier in a state of normal boot
Both light off	Expression power protection status or power amplifier temperature protection

3.Channel Sensitivity

Adjust the sensitivity of the power amplifier, The minimum sensitivity:200mV;Maximum sensitivity:5V

4.High Frequency Controller(SUB SONIC)

Controls the frequency of the power amplifier of high frequency reduction to common denominator is 15Hz or 25Hz.

5.Low Frequency Controller

Controls the frequency of the power amplifier of low frequency reduction to common denominator is 50Hz or 400Hz.

6.Control Switch

When the switch to the ON line the prosecution can be controlled Amplifier.

Note: through the connecting line control mood control box and the power amplifier to connect, twis wire control box of the knob to make knob MIN direction volume decreases, and vice versa.

7.Bass Boost

Adjust the input signal of the bass boost level 0dB or 12dB.

8. Phase Switch

If the subwoofer has been wired out of phase this will exhibit itself as a “hole” in the sound. The phase switch can correct this problem, Adjust from 0° to 180°.
If there is no “hole” in the sound, leave the phase switch set to 0°.

9. Toggle switch.

power amplifier front rear track (Hi) of high signal with low signal (Low) input switching function.

10. Connection Port.

DC+12V power input (REM) boot startup horn line interface and the power output and connections.

Specification

MODEL	NGTD1
Power supply voltage	8-16VDC
Idling current	0.5A
Output power (RMS) @ 14.4V/4Ω	1x200W
Output power (RMS) @ 14.4V/2Ω	1x300W
Output power (MAX)	1000W
Low pass filter(Adjustable range)	50Hz-400Hz
High pass filter(Adjustable range)	15Hz -25Hz
Distortion(THD)	≤1%
Low input sensitivity	200mV-5V
Signal to noise ratio	≥100dB
Fuse	30A
Dimension (LxDxH)	205x81x47mm

5. Troubleshooting

1. Status LED on Amplifier not lit when head unit (source) turned on, please verify:

- Remote turn-on wire from source to amplifier has proper voltage.
- Power (B+) connections at amplifier, terminal blocks, and battery are secure.
- Ground (GND) connections at amplifier and vehicle chassis are secure.
- Amplifier fuse or Battery B+ is OK.
- B+ at battery and B+ amplifier have proper voltage.

2. Status LED Lit, no output from Speakers in Normal Operating Condition, please verify:

- High-level cables from speaker(s) to amplifier are securely connected.
- RCA cables from amplifier to source are securely connected.
- Volume adjustment on amplifier is correctly adjusted.

3. Engine Noise From Speaker(s), please verify:

- Turn source OFF, Disconnect RCA cables at amplifier if noise stops, check equipment and cables leading to amplifier.

4. Amplifier output distorted music not recorded with Intentional Distortion, please verify:

- Source output to amplifier is not distorted.
- Source output sensitivity is correctly adjusted.

5. Amplifier Shuts down, Red LED are lit Amplifier is in Thermal Protection Mode, please verify:

- Amplifier is mounted with adequate air circulation around vents.
- Amplifier is not mounted under carpet.
- Speakers meet correct impedance for application.

6. Amplifier does not turn on, and Red LED is lit amplifier not connected to a short-circuit Speaker, please verify:

- Speaker crossover is not defective.
- High-level cables from speaker to amplifier are not shorted.



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