



# NBX20A

## User Manual



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# 8" ACTIVE SUBWOOFER BOX

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# YOUR SUBWOOFER

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## **Dear Customer,**

Congratulations on purchasing our Nakamichi mobile system product for your sound system.

This product has been designed and manufactured to Nakamichi's exacting standards to ensure many years of audio enjoyment. For the best performance, we recommend that you have your Nakamichi product installed by an authorized Nakamichi dealer.

If you would like to install this product on your own, we recommend for you to go through this manual to familiarize yourself with all the installation requirements and procedures.

If you encounter any issues or if you have any questions on the operation of this product, please contact your nearest authorized Nakamichi dealer for assistance, or you may also contact us through our website or social media channels.

## **Installation of your Product**

In today's modern vehicles, it is very easy to cause damage to existing systems through improper installation. Please follow and scrutinize all wiring diagrams to ensure that you have connected everything in its proper place.

If you find yourself uncomfortable or unfamiliar with understanding the wiring and installation diagrams or testing instructions, do contact your nearest Nakamichi dealer to perform the installation for you.

## **Safety Warnings and Considerations**

- Clean only with a dry cloth or other similar materials.
- Install your product in a dry, well-ventilated location that does not interfere with your vehicle's safety equipment.
- Do not block any ventilation openings when installing this product.
- Do not mount the product in the engine compartment of your vehicle or in any areas of extreme heat such as mufflers, silencers, exhaust pipes or other heat producing apparatus.
- Securely mount the product so that it does not come loose in the event of a collision or as a result of repeated vibrations that might occur during normal operation.
- Installation of the apparatus must be done with great care to prevent damage to your vehicle's fuel lines, power, and other electrical wiring, hydraulic brake lines, and other systems. If possible, always visit your nearest Nakamichi dealer to perform the installation.
- Do not run any wiring outside or underneath the vehicle. Keep all wires inside the vehicle.
- Take the necessary precautions when making connections to the vehicle's battery to avoid any potential shock.
- Protect all system wires from sharp edges by carefully routing them, always use rubber grommets to protect wiring and cables whenever you are installing them through metal openings.

# YOUR SUBWOOFER

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- Secure all wiring using cable ties or wire clamps to protect them from moving parts and sharp edges.
- This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, shall be placed on the apparatus.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power input terminals are damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Fuses shall be replaced only with the correct type and fuse value, and only when the apparatus is powered off.
- Exposure to high sound pressure levels may lead to permanent hearing loss. Take every precaution to protect your hearing.
- This product is designed specifically for use with 12 volt, negative- ground electrical systems only. Using this product in systems with positive ground and/or voltages other than 12V may result in damage to the product and your system.

## COMMON FAULTS & SOLUTIONS

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Issues	Causes	Solutions
Can't switch on the unit.	1. No +12V on the remote. 2. No +12V on the supply. 3. Ground not properly connected. 4. Fuse broken.	1. Supply the terminal in +12V. 2. Connect the supply in +12V. 3. Check connections to ground. 4. Change fuse.
The unit is on but no signal.	1. No signal. 2. No remote.	1. Check signal cable. 2. Check power on the remote.
Distorted output.	1. Source level too high. 2. Gain of the amplifier too high.	1. Turn down the source level. 2. Turn down the gain of the amplifier.
Blown fuses.	1. Output levels too high.	1. Turn the level or gain down.

## ACCESSORY LIST

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Check and identify the contents of your package:

1. Subwoofer Box x 1pc
2. User manual x 1pc
3. Mounting Screw x 8pcs
4. Sheet Iron x 2pcs
5. Hexagonal Wrench x 1pc

# SPECIFICATIONS

Subwoofer: 8" (203mm)

N-power: 100Watts

MAX Power: 600Watts

Sensitivity(dB/W/m): 88±3dB

Unit Dimensions: 452×165/237×303mm

Power Requirements: 12V DC Car Battery (Negative Ground)

Power Supply Voltage Range: 14.4V (10.5V~16V)

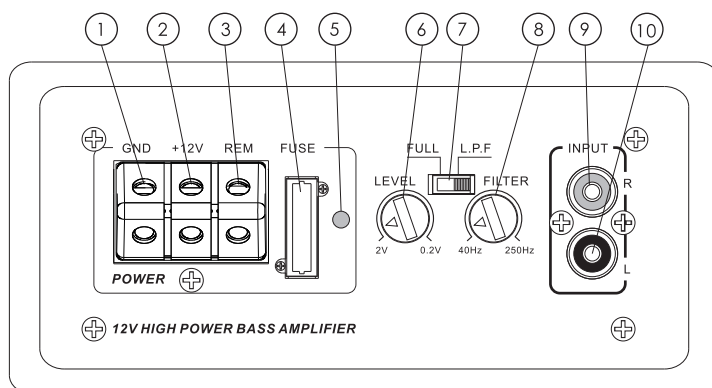
Frequency Response: 35Hz-3.5kHz

Impedance: 4Ω

Voice Coil: ASV Φ38.55mm

Magnet Mass: 126×60×20mm

## INSTALLATION



**1. POWER(GND)** must be connected to the chassis of your vehicle with a perfect electrical connection (remove some paint to reveal bare metal if necessary) and with the ground cable.

**2. +12V** connect the +12V power supply of car battery with the power cable. (Note: power connections).

**3. REMOTE** connect the electrical aerial output or the remote output of your radio with the remote cable.

**4. FUSE** protects the unit from damage made by dangerous volume of current.

**5. POWER INDICATOR LIGHT**

**6. LEVEL** adjusts the input gain of the unit to accept different level of signal inputs.

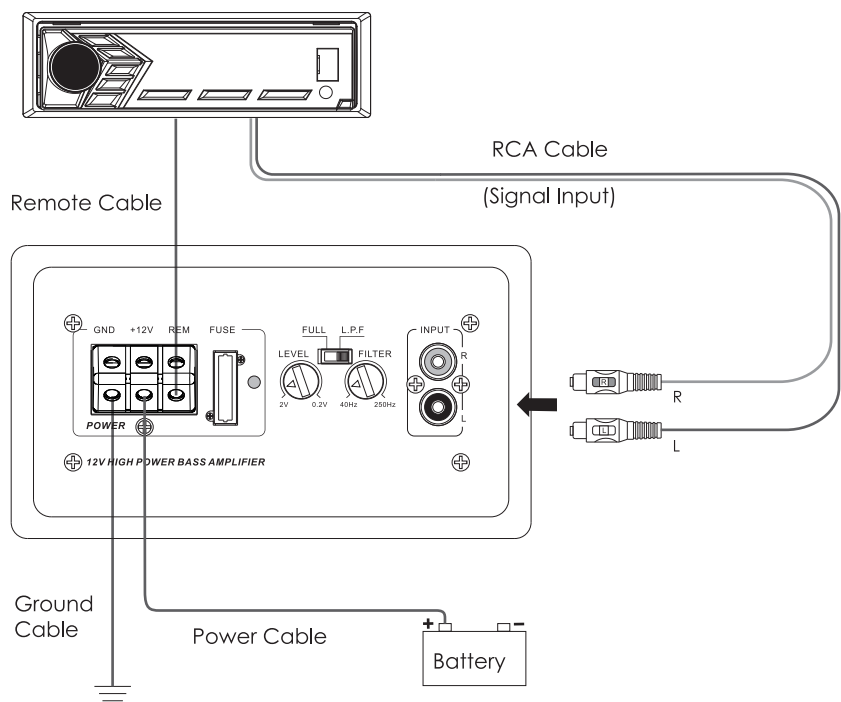
**7. CROSSOVER** there are 2 optional modes for the crossover: FULL , L.P.F.

**8.FILTER** This is adjusting L.P.F frequencies. Controls frequency of the amplifier between 40Hz and 250Hz.

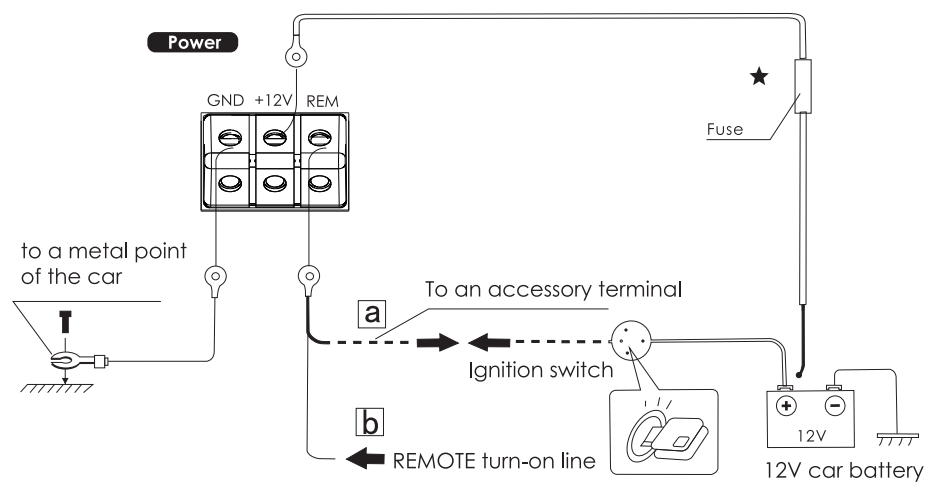
**9. INPUT(R)** connect to the RCA output of the car radio with the RCA cable.

**10. INPUT(L)** connect to the RCA output of the car radio with the RCA cable.

# INSTALLATION



## Power Connections



\* Place the fuse in the power supply lead as close as possible to the car battery.

# INSTALLATION

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## Mount The Subwoofer Box Inside The Trunk.

- Decide the best location possible that suits your automobile and space available. The best and most secure location for optimum sound quality is behind the rear seats, in the trunk floor.
- To avoid difficult to heat dissipation, do not surround the unit, ensure the surrounding air convection is smooth, it's much better for reduce the working temperature.
- \* **Remark:** It's hard to avoid having a jolt or scam for automobile while running, be laying firmly enough, suggest you use a bandage to fix the subwoofer box. (This bandage is not included, please buy by yourself.) Please make sure the bass tube

## Adjusting The Sound Level

- Turn the level controls of the amplifier to their minimum positions. Choose music with high dynamic content that you like, that you are familiar with and will be most often used in the system.
- Turn the unit up to its highest undistorted output level. If you lack test equipment, this point occurs between 3/4 to full volume depending on the quality of your source unit. Listen for any audible distortion. If any distortion is audible, reduce the volume of the source unit until you have an undistorted output. Leave the volume control at this position during your system tuning.
- Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered automotive sound systems can generate sound pressure levels in excess of 130dB. When playing your system at high levels, please use heat protection and prevent long term exposure.



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