



NBF10.2A

User Manual



10" ACTIVE ALUMINUM SUBWOOFER

INTRODUCTION

Thank you for your purchase of our Nakamichi product and we warmly welcome you to the Nakamichi family! Do keep your original invoice and purchase receipt in a safe place in case of future service and warranty claims. You may also contact your appointed Nakamichi service agent for any future technical support requirements.

ACCESSORY LIST

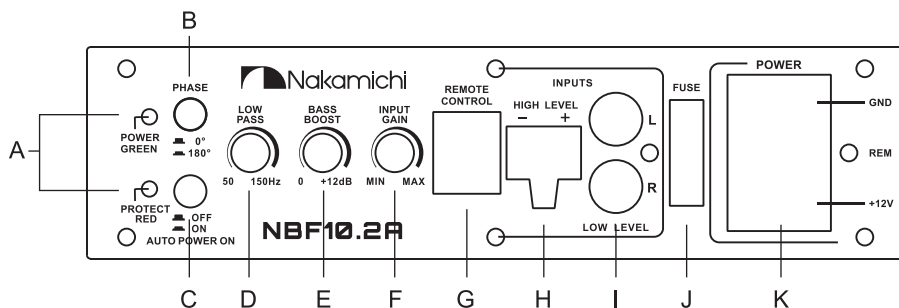
1. User Manual	2 pcs
2. Amplifier	1 pc
3. Mounting Screw (Φ4x4mm)	4 pcs
4. Mounting Screw (Φ4x12mm)	4 pcs
5. Allen Wrech	1 pc
6. High Level Input Cable	1 pc
7. Remote Cable	1 pc
8. Remote Control	1 pc
9. Mounting	4 pcs
10. Fuse(20A)	1 pc

SPECIFIATIONS

N-power Output	150W
Max Power	900W
T.H.D.	≤0.2%
Signal To Noise Ratio	≥90dB
Frequency Response	20Hz - 150Hz
Input Sensitivity, High level	0.5V
Input Sensitivity, low level	110mV
Low Pass Filter	50Hz - 150Hz
Bass Boost	0 to +12dB
Subsonic Filter	20Hz (Fixed)
Fuse Rating	20A
Subwoofer	10 inch, 2 ohm
Dimension (L x W x H) mm	345 x 261 x 71 mm

All specifications subject to change without notice.

PANEL CONTROLS AND FEATURES



A. POWER STATUS LED

This bi-color LED glows green when power is on and no problems are present. If one of the protection circuits comes on, it will change to red.

B. PHASE SHIFT

Use this switch to help compensate for time alignment problems in the system. Such problems usually result from having the subwoofer at a different distance from the listener than the other speakers in the system.

C. AUTO POWER ON

The AUTO POWER ON (ON/OFF) is for high level (speaker-level) connections. When the switch is in the "ON" position, the subwoofer will AUTO POWER ON when there is signal input. If the amplifier detects no signal input, the amplifier will auto power off. If you prefer to use the remote turn on/off connection, leave switch in the "OFF" position.

Note: Please connect the remote terminal to the remote output of head unit as Fig.4 when you hear the unit turn ON/OFF POP noise from the subwoofer.

D. LOW PASS FILTER

This control permits you to define the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound BELOW the frequency you set.

Note: The low pass filter frequency can be higher or lower than the standard. There is +/-20% tolerance.

E. BASS BOOST

The BASS BOOST feature will increase the sound level in the bass frequencies.

F. INPUT GAIN CONTROL

After you have installed your system, turn this control to minimum.

Turn the head unit on (and the subwoofer will turn on via the remote connection). Turn the head unit volume to about 2/3 full level.

Slowly turn up the subwoofer input gain control until you hear a small amount of distortion. Then reduce the level until the distortion is completely gone. Level the control at this setting.

PANEL CONTROLS AND FEATURES

G. REMOTE LEVEL CONTROL PORTAL

Attach the included remote level control to control the volume level of the subwoofer independently.

H. HIGH LEVEL (speaker level) INPUTS

If your head unit does not have RCA outputs you can use the speaker outputs for the audio source for the subwoofer. Use the supplied cable and wire harness and connect the outputs properly as shown in the connection diagram in this manual.

I. LOW LEVEL RCA INPUTS

Low level inputs are the recommended way to introduce the audio signal to the subwoofer if RCA outputs are present on your head unit or other signal source (such as a sound processor).

J. FUSE

Do not use a fuse with a different value and NEVER replace the fuse with a wire or coin.

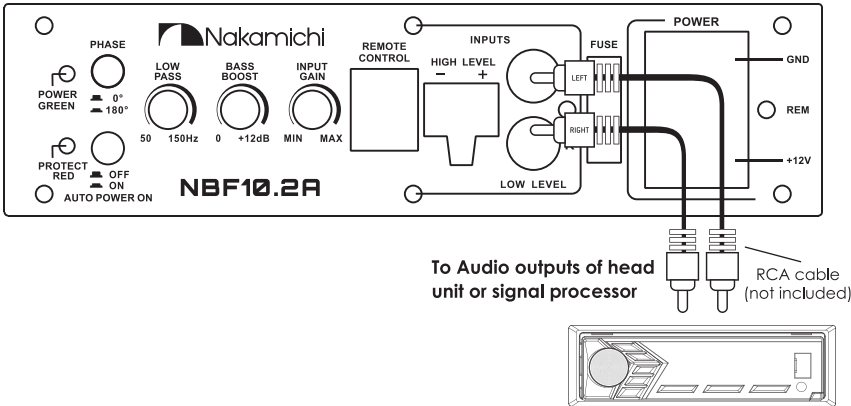
K. POWER INPUT TERMINAL

LOW LEVEL INPUT WIRING

Low-level (RCA) input wiring is preferred for best audio performance. Most trunk and under- seat installations will require a 6-12 feet RCA canle. Always use a high quality cable.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

Fig.1



To Audio outputs of head unit or signal processor

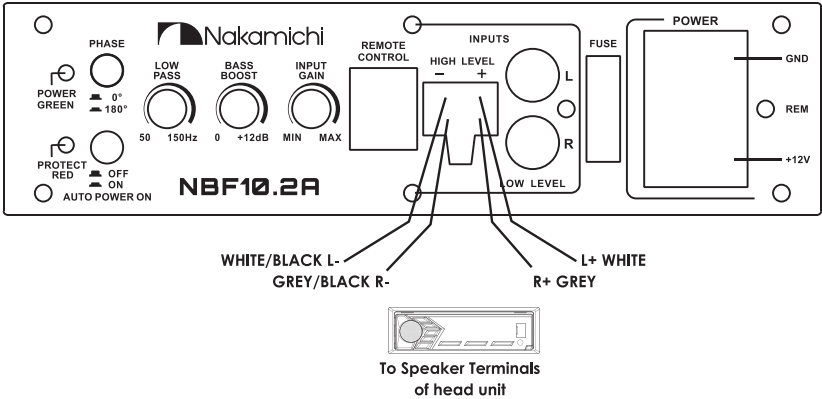
RCA cable (not included)

HIGH LEVEL INPUT WIRING

The high level input(s) should only ne used when your receiver lacks RCA outputs. If the RCA outputs are not present, connect the speaker outputs from the receiver to the high level input connector of the amplifier. Be sure to observe polarity to avoid audio phase problems.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

Fig.2



POWER CONNECTIONS

Connect the ground terminal to the closest point on the chassis of the vehicle. Use 8 gauge (or heavier) wire to connect the ground cable.

Connect the remote terminal to the remote output of head unit using 16 gauge (or heavier) wire.

Connect an empty fuse holder within 16" (40 cm) of the car battery, can run 8 gauge (or heavier) cable from this fuse to the amplifier location. Then connect the fuse holder to the "BATT+" (+12V) connection on the subwoofer rear panel.

REMOTE LEVEL CONTROL CONNECTION

Fig.3

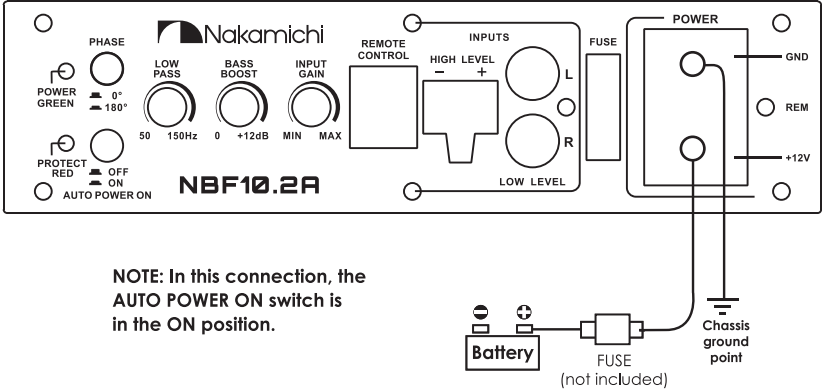


Fig.4

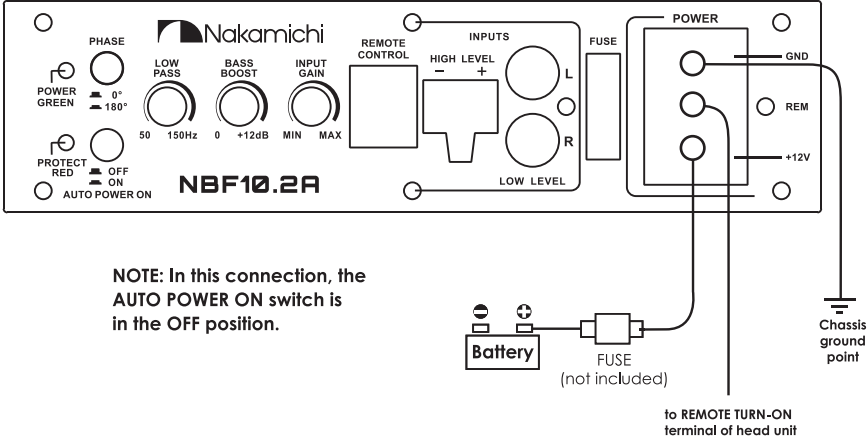
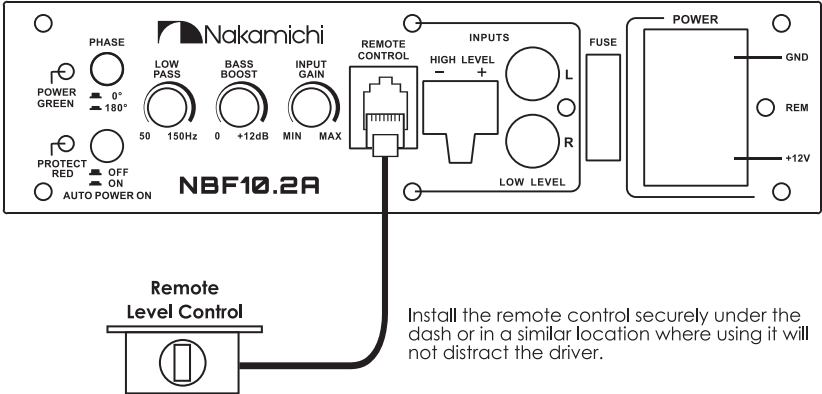


Fig.5



TROUBLESHOOTING

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problems persist, read the following troubleshooting tips which may help eliminate the problems.

SYMPTOMS	POSSIBLE REMEDY
Products will not power up.	<ul style="list-style-type: none">• Check to make sure you have a good ground connection.• Check that the Remote Input (Turn-On) has at least 5VDC.• Check that there is battery power on the (+) terminal-• Check that there is at least 12v.• Check all fuse, replace if necessary.• Make sure that the Protection LED is not illuminated. If it is lit, shut off the amplifier briefly, and then repower it.
Protection LED comes on when amplifier is powered up	<ul style="list-style-type: none">• Turn down the volume control on the head unit to prevent overdriving.• Check that there is good air circulation around the amp.
No output	<ul style="list-style-type: none">• Check that all fuses are OK.• Check that unit is properly grounded.• Check that the Remote Input (Turn-On) has at least 5VDC.• Check that the RCA audio cables are plugged into the proper inputs.
Low output	<ul style="list-style-type: none">• Reset the Level Control.• Check the Crossover Control settings.
High hiss in the sound.	<ul style="list-style-type: none">• Disconnect all RCA inputs to the power sub's control panel.• If the hiss disappears, then plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty/noisy component is found.• It is best to set the amplifier's input level control as low as possible.• The best subjective signal-to-noise ratio is achieved in this manner.• Try to set the head unit as high as possible (without distortion)
Squealing noise is present.	<ul style="list-style-type: none">• Check for improperly grounded RCA interconnects.
Distorted sound.	<ul style="list-style-type: none">• Check that the Input Level Control is set to match the signal level of the head unit.
Engine noise (static type)	<ul style="list-style-type: none">• This is usually caused by poor quality RCA cables, which can pick up noise. Use only the best quality cables, and route them away from power cables.
Engine noise (alternator whine)	<ul style="list-style-type: none">• Check that the RCA grounds are not shorted to the vehicle chassis• Check that the head unit is properly grounded.



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