

NHPD600.1

User Manual



CLASS-D MONO BLOCK POWER AMPLIFIER



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遇見操作或性能上的問題,如果前面的介紹和說明未能幫到妳成功解決,請閱讀下面的故障排除技巧,希望能幫助妳解決問題。

解决方法

故障現象 故障原因

	• 遙控開啟輸入低或沒有開啟	• 檢查功放機遙控的電壓開啟輸出,並根據需要進行校正	
	【● 保險終熔斷	• 檢查電源線的完整性和極性是否反轉,根據需要進行維	
	トレーン いっしょう	修並更換保險絲	
沒有輸出	• 電源線未連接	• 檢查電源線和接地連接,根據需要進行更換或維修	
沒有鞩山	• 音頻輸入未連接或音源沒有	│ │ • 檢查輸入連接和信號完整性,根據需要進行維修或更換	
	輸出	- 派三州八定汉阳日加儿正江,似游而女连门能吃以文沃	
	• 揚聲器導線未連接	• 檢查揚聲器電線並根據需要進行維修或更換	
	• 揚聲器壞了	• 檢查已知工作揚聲器,並根據需要修理或更換揚聲器	
音頻循環開	• 當功放機散熱片溫度超過	 • 確保功放機有適當的通風,並根據需要改善機器通風	
啟和關閉	90℃時,過熱保護接合		
	• 音頻輸入松動或不良	• 檢查輸入連接並根據需要進行維修或更換	
	• 功放機電平靈敏度設置得太	 • 有關詳細說明,請參閱本手冊的調諧部分重置增益	
	高,超過功放機的最大輸出		
	• 功放機的阻抗負載太低	• 檢查揚聲器阻抗負載,如果低於2页立體聲或1页單聲	
	タバス小スロッドロッパ 矢 半人人へ はく	道重新接線揚聲器,以實現更高的阻抗	
輸出不正常	• 喇叭線短路	• 檢查揚聲器導線連接並根據需要進行維修或更換	
	• 揚聲器未正確連接到功放機	• 根據需要檢查揚聲器接線和更換維修,請參閱本手冊	
		的安裝部分以獲取詳細說明	
	• 揚聲器內置分頻器未正確連	• 參考本說明書線路連接部分的多種連接方式, 並重新	
	接	連接揚聲器	
	• 揚聲器壞了	• 檢查已知工作揚聲器的系統,並根據需要進行維修或	
		更換 •檢查揚聲器阻抗負載,如果低於2Ω立體聲或1Ω單聲	
	• 功放機的阻抗負載太低		
	東海海原東土東海東京	道重新接線揚聲器,以實現更高的阻抗	
連續輸出	• 電源線短路或電源連接不正確	• 檢查電源和接地連接並根據需要進行維修	
不正常	• 使用的保險絲小於推薦值	• 更換適當的保險絲尺寸	
-	- 区川山川水域県小川市島田	• 檢查揚聲器阻抗負載,如果低於2Ω立體聲或1Ω單聲	
	• 電流太大了	道重新接線揚聲器,以實現更高的阻抗	
	• 電源線不正確鏈接導致短路	• 檢查電源和接地連接並根據需要進行維修	
		· 1以旦电M741文化任1文业似冰而女近11批修	
	• 揚聲器接線錯誤,導致低頻 消除	• 檢查揚聲器極性並根據需要進行修理	
低音反應差	/月	• 參考本說明書更詳細的線路連接部分, 並重新連接揚	
	• 交叉設置不正確	• 多亏本	
		耳前	

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.

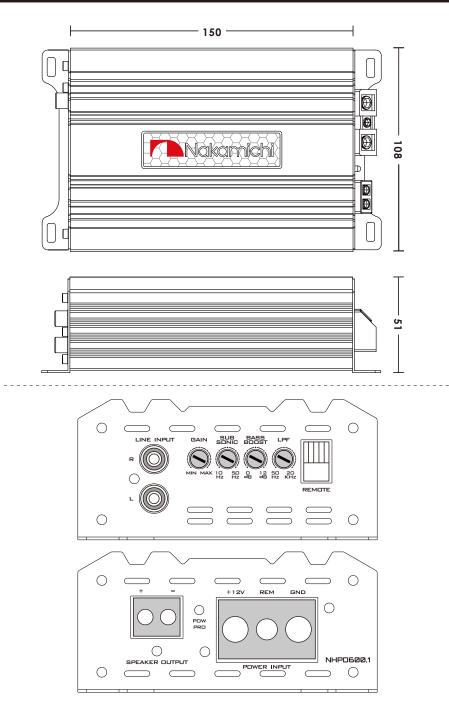
ACCESSORY LIST

1. User Manual	1pc	
2. Amplifier	1pc	
3. Mounting Screw (Φ4x15mm)	4pc	
4. Remote control	1pc	
5. Wrench	2pc	
6. Remote Mounting Screw(Φ3x12mm)	2pc	

SPECIFIATIONS

N 0 1 10 10	
N-power Output@4Ω	260W X 1
N-power Output@2Ω	450W X 1
N-power Output@1Ω	600W X 1
Max power	4200W
T.H.D	≤0.2%
Frequency Response	20Hz-20kHZ
Signal To Noise Ratio	≥102dB
Sensitivity	0.2~6V
Unit Dimensions(LxHxW)	150x108x51mm
Net Weight	Approx.1.18kg
Box Dimensions(LxHxW)	227x178x80mm
Gross Weight	Approx. 1.44kg

All specifications subject to change without notice.



幹擾問題

所有電纜都會產生幹擾。電源線和RCA音頻線很容易受到其他來源的幹擾,而遠程線 則不太容易受到幹擾。 幹擾通常是由發電機,點火器或任何其他電子零件或系統引起的。 通過在安裝過程中正確和仔細的接線,可以消除大多數這些問題。以下是壹些要遵循的準則。

- 在放大器的低電平輸入與收音機的RCA輸出之間的布線僅可使用屏蔽音頻電纜。
- 分開鋪設信號線,揚聲器線和電源線,彼此之間以及與汽車電纜之間要保持足夠的距離。若不可行的話,您可以將電路和接地電纜與串行電纜壹起鋪設。音頻和揚聲器電纜應盡可能遠離它們。可以將到無線電的自動天線輸出的REM電纜與信號電纜放在壹起。
- 通過將所有組件的接地線朝向星形布局的中心點來避免接地回路。您可以通過直接在電池上測量電壓並將電壓值與所選接地點和放大器的正極端子進行比較來找到最佳點。如果測得的電壓僅稍有不同,則您已找到正確的中心位置。否則請尋找另壹點。妳應該用點火點測量用於接地。
- 如果揚聲器電源線中有來自外部電源的拾音器,請分開芯線並將其絞合在壹起。
- 如果汽車電氣產生噪音,請在電源線中加入壹個幹擾抑制扼流圈。
- 如果有嗡嗡聲,請使用較粗的接地電纜或將更多的接地電纜添加到機箱。
- 為降低接觸電阻和不良接觸,請焊接電纜末端或使用多芯電纜末端,鏟形端子或其他。鍍 金鏟形端子無腐蝕,接觸電阻最低。
- 如果所有這些措施都不能成功,則使用接地回路隔離器可以解決問題。

D. 低音提升

BASS BOOST功能將增加低音頻率的聲音水平。

E. 低通分頻頻率

將放大器控制在50Hz至20kHz之間

F 綫控接口

連接后可在五米内調節功放機聲音大小。

G.揚聲器連接

將揚聲器和低音揚聲器**或全頻揚聲器**連接到那裏的端子,以確保連接時極性正確。 切勿將揚聲器電纜連接到機箱接地。

H.電源和保護指示器

如果放大器出現故障,保護紅色LED將點亮並閃爍。重新連接放大器之前,請先斷開放大器的連接並解決故障。

放大器正常工作時、電源指示藍色LED會點亮。

I. +12V=電源

通過保險絲或電路斷路器將該端子連接到車輛電池的正極或隔離音頻系統電池的正極。

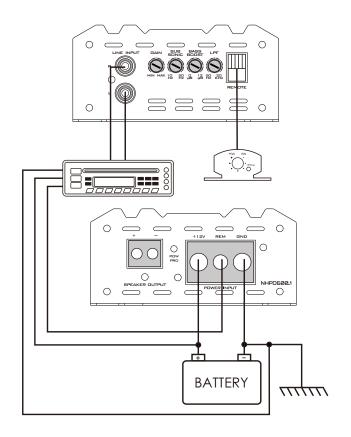
J. REM(ON/OFF) 控制綫

使用低電平輸入時,放大器REM-IN應該連接到信號源單元的REM-OUT。 源單元將控制放大器自動打開或關閉。

K. GND(-)=接地

將此端子直接連接到車輛的金屬框架,確保金屬框架上的所有油漆都剝離到裸金屬上。使用盡可能短的距離。最好連在車輛電池接地端子或任何其他接地點。

POWER CONNECTION LEADS



Notes on the power supply

Connect the +12V power input lead only after all other leads have been connected. Be sure to connect the ground wire of the unit securely to a metal part of the car. A lose connection may cause a malfunction of the amplifier.

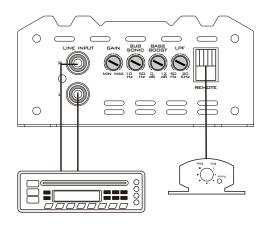
Control line:

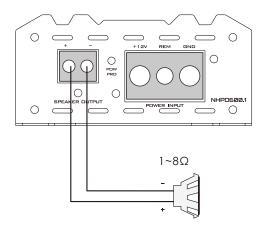
The unit is turned on by applying +12V olts to this terminal. This terminal does not draw heavy current like the two power terminal so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard colour is blue.

SPEAKER CONNECTION LEADS

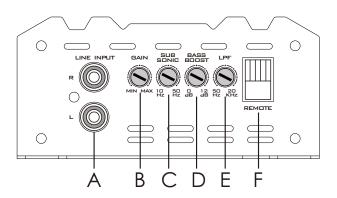
Use the power supply lead with a fuse attached whose value is the same as original fuse. Place the fuse in power supply lead as close as possible to the car battery. During a full power operation, MaxImum current will run through the system. Therefore. Make sure the that the leads to be connected to the +12V and GND terminals of the unit respectively must be larger than 8-Gauge(AWG.8).

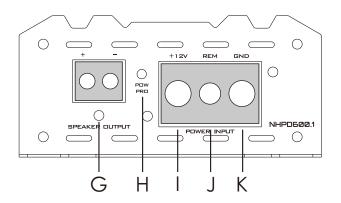
CONNECTION 1: 1-CHANNEL MODE





面板控件和功能





A. 低電平RCA輸入

這些RCA輸入插孔與源單元RCA低電平輸出相連,或通過可選適配器與源單元揚聲器高電平輸出相連。建議使用高質量的雙紋線汽車音頻電纜,以減少音頻信號衰減的可能性。

B. 揚聲器增益控制

增益控制將使放大器的靈敏度與源信號電壓匹配。

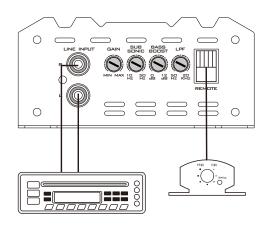
C.次聲分頻範圍

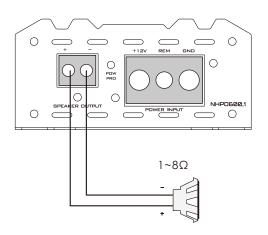
次聲分頻範圍控制在10Hz-50Hz之間。

請使用附帶保險絲的電源線,其規格應與原始保險絲相同。將保險絲放置在電源線中,使其盡可能靠近汽車電池。

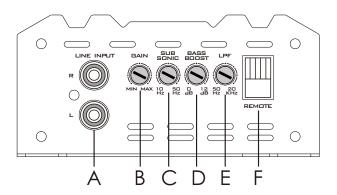
在全功率運行期間,最大電流將流經系統,因此,確保分別連接到本機的+12V和GND端子的 導線必須大於8號綫。

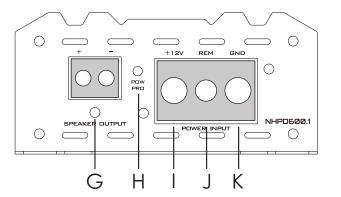
連接1:1聲道模式





PANEL CONTROLS AND FEATURES





A. LOW LEVEL RCA INPUT

These RCA input jacks connect with your source unit RCA low level outputs or via optional adapter with your source unit speaker high level outputs. The use of high quality twisted pair car audio cables is recommended to reduce the possibility of audio signal degration.

B. SPEAKER GAIN CONTROL

The gain control will match the amplifiers sensitivity to the source signal voltage.

C. INFRASOUND CROSSOVER FREQUENCY RANGE

The infrasound crossover frequency range is controlled between 10Hz and 50Hz.

電源線連接

D. BASS BOOST

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

E. SPEAKER LOW PASS CROSSOVER FREQUENCY

Adjustable low pass frequency range 50Hz to 20kHz.

F. REMOTE PORT

It can be connected to adjust the sound level of the amplifier within five metres.

G. SPEAKER CONNECTIONS

Connect your speakers and woofers or full range speaker to there terminals, ensuring proper polarity during connection. Never connect the speaker cables to the chassis ground.

H. POWER AND PROTECTION INDICATOR

The protection red LED will light up if there is a fault present in the amplifier. Please disconnect the amplifier and resolve the foult before reconnecting the amplifier.

I. +12V = POWFR SUPPLY

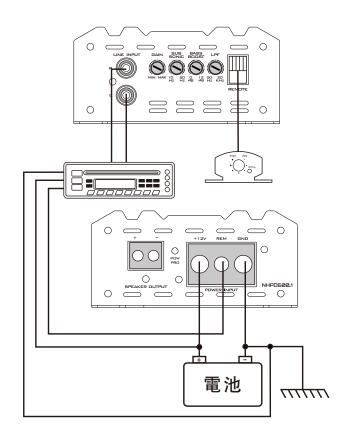
Connect this terminal through a fuse or circuit beraker to the positive terminal of the vehicle battery or the positive terminal of an isolated audio system battery.

J. REM(ON/OFF)CONTROL LINE

When using low level inputs, the amplifier REM-IN should be connected to the REM-OUT of the source unit. The source unit will control the amplifier to automatically turn on or off.

K.GND(-) = GROUND CONNECTION

Connect this coble directly to the metal frame of the vehicle, ensuring that the metal frame has been strpped of all paint down to the bare metal. Use the shortest distance possible. It is atways a good idea to connect the vehicle battery groudn terminal or any other ground points.

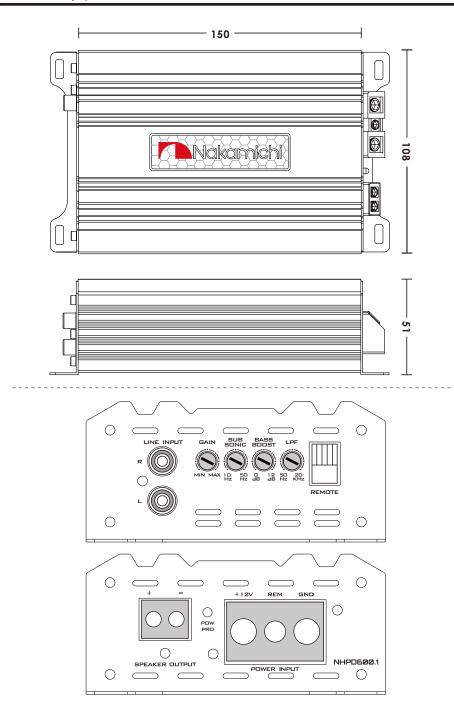


關於電池的註意事項

僅在連接所有其他導線後,才可連接+12V電源輸入導線。確保將設備的接地線牢固地連接到 汽車的金屬部分。連接斷開可能會導致放大器故障。

控制綫:

通過在這個端子上施加+12V的電壓來打開設備。該端子不會像兩個電源端子那樣消耗大電流,因此可以使用較細的連接線。標準18號綫很好,標准顏色是藍色。



INTERFERENCE

All cables can create interference. The power cable and RCA audio cables are very prone to interference from other sources, while remote cables are less prone. Interference is often caused by the generator, ignition, or any other electronic parts or systems. Most of these problems can be eliminated by correct and careful wiring during setup. Here are some guidelines to follow.

- Use only a shielded audio cable for the wiring between the low level input of the amplifier and the RCA output of the radio.
- Lay the signal, speaker and power cables separately with enough distance from one another and also from each other car cable. Ir not possible, you can lay the circuit and ground cable together with the serial cables. Audio and speaker cable should be as far away from these as possible. The REM cable to the automatic antenna output of the radio can be laid together with the signal cables.
- Avoid ground loops by laying the ground wiring of all components towards a central point in a star layout. You can locate fne best point by measuring the voltage directly at the battery, and comparing the voltage value with the chosen ground point and the positive terminal of the amplifier. If the measured voltage is only slightly different, you've found the correct central location. Other wise please look for another point. You should measure with the ignition point for earth switched on.
- If there are pickups from external electrical sources into the speaker cables, divide the core leads and twist them together.
- If there are noises from the car electrics, add an interference suppression choke into the power wiring.
- If there are humming noises, use thicker ground cables or add further ground cables to the chassis.
- To reduce contact resistance and bad and loose contacts, please solder the cable ends or use multi core cable ends, spade terminals or others. Gold Plated spade terminal are free of corrosion and have the lowest contact resistance.
- Should all these measures not bring about any success, the use of a ground loop isolator may solve the problem.

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.

*Low or no remote turn-on input *Check remote turn-on voltage output at amplifier and correct as needed *Check power wire integrity and reversed polarity, repair as needed and replace fuse *Power wires not connected *Check power wire and ground connections and repair of replace as needed *Audio input not connected *Check power wire and ground connections and repair or replace as needed *Speaker wires not connected *Check speaker wires and repair or replace as needed *Speaker are blown *Check system with known working speaker and repair or replace speaker as needed *Check system with known working speaker and repair or replace speaker as needed *Check system with known working speaker and repair or replace speaker as needed *Check input connections and repair or replace as needed *Check input connections and repair or replace as needed *Check input connections and repair or replace as needed *Check input connections and repair or replace as needed *Check speaker wires *Check speaker impedance load. If below 2Ω stereo or 1Ω mon rewire speakers to achieve a higher impedance *Speaker are blown *Check speaker wire connections and repair or replace as needed *Speaker are blown *Check speaker wire needed *Check speaker wiring and repair or replace as needed *Check speaker wiring and repair or replace as needed *Speaker are blown *Check speaker wiring and repair or replace as needed *Check speaker polarity and repair as needed refer to the installations section of this manual for replace as needed *Check speaker polarity and repair as needed Reset crossovers referring to the multi-cross crossover referring to the mul	SYMPTOM	POSSIBLE CAUSE	ACTION TO TAKE
Fuse blown -Fuse blown		allow or no remote turn on input	•Check remote turn-on voltage output at amplifier and
**Power wires not connected **Check power wire and ground connections and repair of replace as needed **Audio input not connected or no output from source **Check input connections and signal integrity, repair or replace as needed **Check system with known working speaker and repair or replace as needed **Check system with known working speaker and repair or replace speaker as needed **Check system with known working speaker and repair or replace speaker and repair or replace speaker and repair or replace speaker as needed **Make sure there is proper ventilation for amplifier and improve ventilation as needed **Amplifier lecel sensitivity set too high: exceeding maximum output copability of amplifier **Check input connections and repair or replace as needed **Amplifier lecel sensitivity set too high: exceeding maximum output copability of amplifier **Check speaker impedance load, if below 2Ω stereo or 1Ω mono rewire speakers to achieve a higher impedance **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire connections and repair or replace as needed **Check speaker wire and repair or replace as needed **Check speaker wire and repair or replace as needed **Check speaker wire and repair as needed **Check speaker with known working speaker and repair or replace as needed **Check speaker with known working speaker and repair or replace as needed **Check speaker impedance load, if below 2Ω stereo or 1Ω mono rewire spe		-tow or no remote turn-on input	correct as needed
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Power wires not connected of replace as needed		•Fuse blown	as needed and replace fuse
- Audio input not connected or no output from source - Speaker wires not connected - Speaker are blown AUDIO CYCLES ON AND OFF - Loose or poor audio input	NO OUTPUT		Check power wire and ground connections and repair
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介紹

感謝你的購買,歡迎來到Nakamichi!為了享受我們提供的更好的服務,請妥善保管原始發票。你最好將副本發回Nakamichi的指定服務代理商,以便獲得更多技術支持。

配件清单

1. 用戶手冊	1本	
2. 功率放大器	1臺	
3. 安裝螺絲(Φ4 x 15mm)	4個	
4. 遥控器	1個	
5. 扳手	2個	
6. 綫控安裝螺絲	2個	

產品規格

HH WITH	
輸出功率@4Ω	260W X 1
輸出功率@2Ω	450W X 1
輸出功率@1Ω	600W X 1
最大功率	4200W
總諧波失真	≤0.2%
頻率響應	20Hz-20kHZ
信噪比	≥102dB
靈敏度	0.2~6V
機器尺寸(長x寬x高)	150x108x51mm
機器淨重	約1.18kg
盒子尺寸(長x寬x高)	227x178x80mm
機器毛重	約1.44kg

所有規格如有變更, 恕不另行通知