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

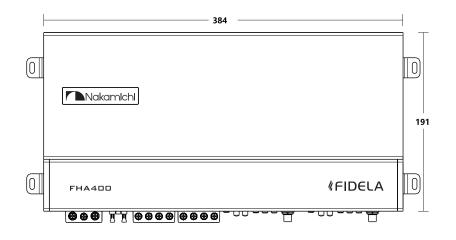
1. User Manual	1pcs	
2. Amplifier	1pc	
3. Mounting Screw (M3x6mm)	8pcs	
3. Mounting Screw (M4x16mm)	4pcs	
4. Mounting Bracket	4pcs	

SPECIFIATIONS

N-power Output $@4\Omega$	4 x 150W
N-power Output @2Ω	4 x 190W
N-power Output @4Ω (Bridged)	2 x 380W
MAX Power	3800W
T.H.D	≤0.2%
Frequency Response	20Hz-32kHz
Signal To Noise Ratio	≥105dB
Sensitivity	0.35V-9V
Fuse Size	40Ax2
Unit Dimensions(LxHxW)	384x190x62mm
Net Weight	Approx. 4.7kg

 $A \hspace{-0.1cm} I\hspace{-0.1cm} I$ specifications subject to change without notice.

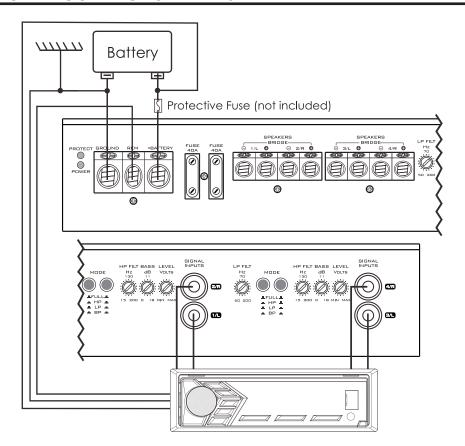
DIMENSIONS (UNIT:MM)







POWER CONNECTION LEADS



Notes on the power supply

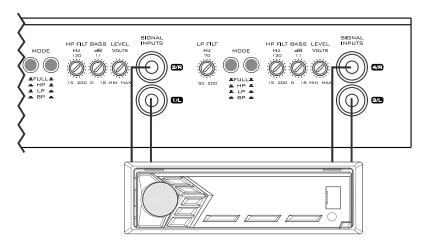
Connect the +12V power input lead only after all other leads have been connected. Be sure to connect the ground wire of the unit securely to a meatal part of the car. A lose connection may cause a malfunction of the amplifier.

REMOTE:

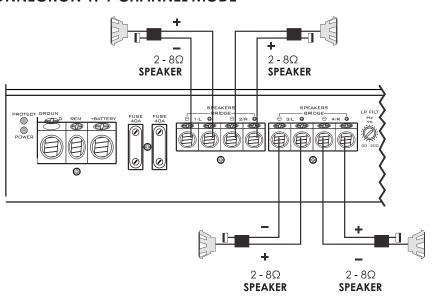
The unit is turned on by applying +12Volts to this terminal. This terminal does not draw heavy current like the two power terminal so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard colour is yellow. If the radio is equipped with a power antenna control wire, it can drive this terminal. If the power antenna wire is already in use, you can still splice into it. With this method, the unit will turn on automatically with the radio.

POWER 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).

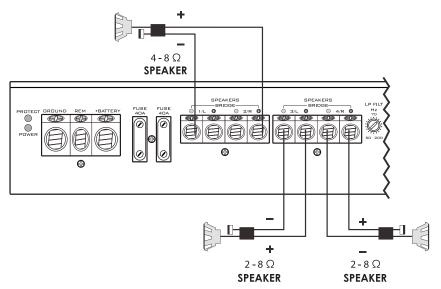


CONNECTION 1: 4-CHANNEL MODE

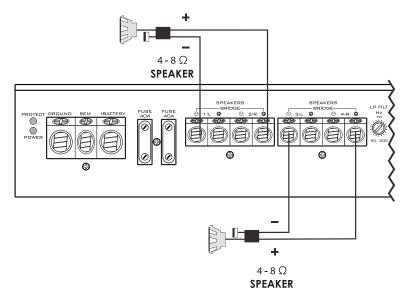


POWER CONNECTION LEADS

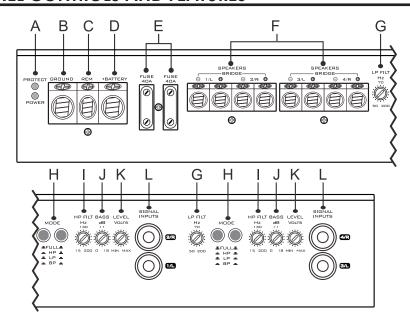
CONNECTION 2: 3-CHANNEL MODE



CONNECTION 3: 2-CHANNEL MODE



PANEL CONTROLS AND FEATURES



A. The power amplifier works normally when the green light is on, and the power amplifier fails to protect when the red light is on.

B. GND(-) = GROUND CONNECTION

Connect this cable 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 replace the vehicle battery ground terminal or any other area ground points.

C. REM=Power amplifier control line

D. +BATTERY = POWER 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.

E. FUSE

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

PANEL CONTROLS AND FEATURES

F. SPEAKER CONNECTIONS

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

- G. Low Pass Frequency Range Regulation.
- H. Mode Selection Switch.
- I. High Pass Frequency Range Regulation.
- J. BASS BOOST

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

- K. Volume Regulator.
- L. Signal input.

INTERFERENCE

All cables can create interference. The power cable and cinch / 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 or DIN 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.

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.

SYMPTOM	POSSIBLE CAUSE	ACTION TO TAKE
		•Check remote turn-on voltage output at amplifier and
	•Low or no remote turn-on input	correct as needed
	•Fuse blown	 Check power wire integrity and reversed polarity, repair
	• Fose blown	as needed and replace fuse
NO OUTPUT	Power wires not connected	•Check power wire and ground connections and repair
	- Tower wiles her confidence	of replace as needed
	•Audio input not connected or no	Check input connections and signal integrity, repair or
	output from source	repalce 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
AUDIO CYCLES	•Thermal protection engages when	•Make sure there is proper ventilation for amplifier and
ON AND	amplifier heat sink temperature	improve ventilation as needed
OFF	exceeds 90°C	
	•Loose or poor audio input	•Check input connections and repair or replace as
	Pedase of poor addit inpor	needed
	 Amplifier lecel sensitivity set too high; 	Reset gain referring to the turning section of the manual
	exceeding maximum output capability	for detailed instructions
	of amplifier	Tor detailed instructions
		$ullet$ Check speaker impedance load, if below 2Ω stereo or
	•Impedance load to amplifier too low	4Ω mono rewire speakers to achieve a higher
DISTORTED		impedance
OUTPUT	•Shorted speaker wires	Check speaker wire connecrions and repair or replace
	- oriented speaker wiles	as needed
	•Speaker not connected to amplifier	Check speaker wiring and repair of replace as needed
	properly	refer to the installation section of this manual for
	properly	detailed instructions
	•Internal crossover not set properly for	•Reset crossovers referring to the multi-cross crossover
	speaker	configuration section of this manual
DISTORTED	•Speaker are blown	Check system with known working speaker and repair
OUTPUT (CONT'D)	-speaker are blown	or replace as needed
	•Speaker wired wrong polarity causing	•Check speaker polarity and repair as needed Reset
POOR BASS	cancellation at low frequencies	crossovers referring to the multi-cross
RESPONSE	•Crossover set incorrectly	•Crossover configuration secrion of this manual for
	Clossover ser inconectly	detailed instructions
DISTORTED OUTPUT (CONT'D)		•Check speaker impedance load, if below 2Ω stereo
	•Impedance load to amplifier too low	or 4Ω mono rewire speaker to achieve a higher
		impedance
	•Short in power wire or incorrect power	Check power and ground connections and repair as
	connections	needed
	•Fuse used is sma ll er than	Replace with proper fuse size
	recommended	
		•Check speaker impedance load, if below 2Ω stereo
	•Too much current being drawn	or 4Ω mono rewire speaker to achieve a higher
		impedance
	•Short in power wire of incorrect	Check power and ground connections and repair as
		needed

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

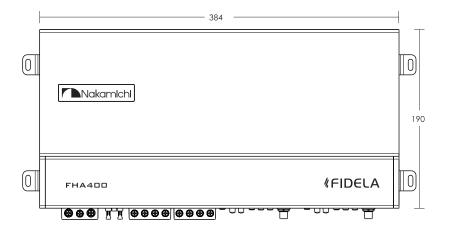
1. 用戶手冊	1本
2. 功率放大器	1臺
3. 安裝螺絲(M3x6mm)	8顆
4. 安裝螺絲(M4x16mm)	4顆
	4個

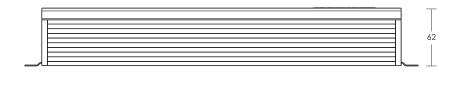
產品規格

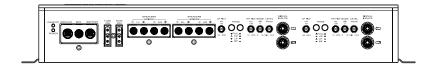
額定輸出功率@4Ω	4 x 150W
額定輸出功率@2Ω	4 x 190W
額定輸出功率@4Ω(橋接)	2 x 380W
最大輸出功率	3800W
總諧波失真	≤0.2%
頻率響應	20Hz-32kHz
信噪比	≥105dB
靈敏度	0.35V-9V
保險絲規格	40Ax2
機器尺寸(長×寬×高)	384x190x62mm
機器淨重	約4.7kg

所有規格如有變更, 恕不另行通知

尺寸: (單位MM)

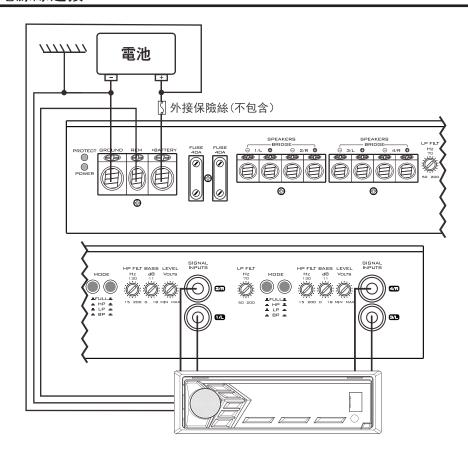






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電源線連接



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。

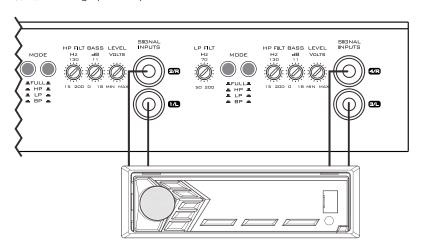
遙控器:

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 GAUGE很好,標準顏色是黃色。如果無線電配備有功率天線控制線,則它可以驅動此端子。如果電源天線已在使用中,則仍可以將其拼接起來。 使用這種方法,本機將通過收音機自動打開。

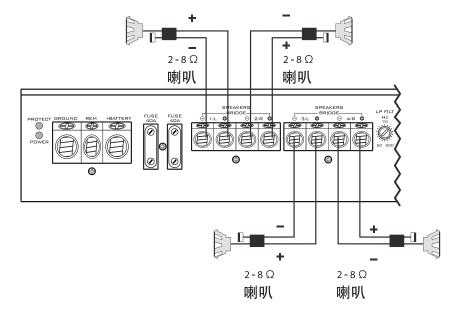
電源線連接

請使用附帶保險絲的電源線,其值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-Gauge(AWG.8)。



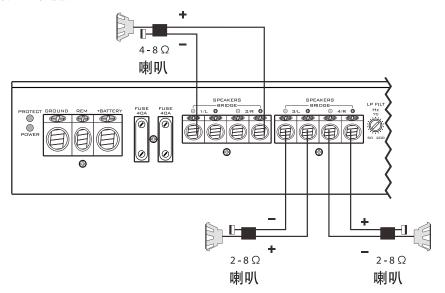
連接1:4聲道模式



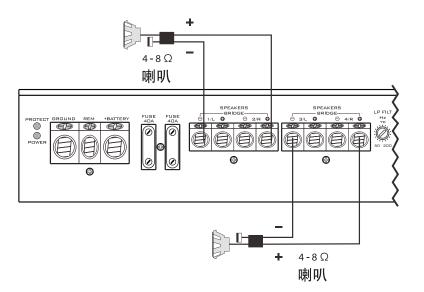
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電源線連接

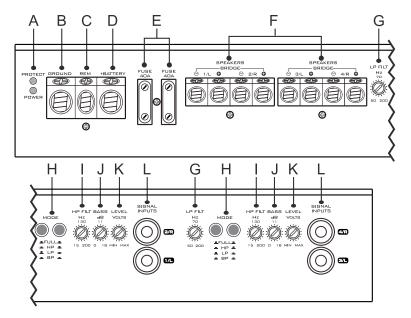
連接2:3聲道模式



連接3:2聲道模式



面板控件和功能



A. 亮绿灯功放正常工作, 红灯亮时功放故障保护

B. GND (-)=接地

將此電纜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。最好更換車輛電池接地端子或任何其他区域接地點。

C. REM=功放控制线

D. +BATTERY=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。

E. 保險絲

請勿使用其他值的保險絲,切勿使用電線或硬幣更換保險絲。

F. 揚聲器連接

將揚聲器和低音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。

- G. 低通頻率範圍調節
- H. 頻率調節
- I. 高通頻率範圍調節
- J. 低音提升調節

BASS BOOST功能將增加低音頻率的聲音水平。

- K. 輸入音量調節器
- L. 信號輸入

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幹擾問題

所有電纜都會產生幹擾。電源線和Cinch/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或DIN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。 不可能的話,您可以將電路和接地電纜與串行電纜壹起放置。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。

故障排除

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。

故障現象 故障原因 解决方法

故障現象	故障原因	解决方法
沒有輸出	• 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
	• 保險絲熔斷	檢查電源線的完整性和極性是否反轉,根據需要進行維 修並更換保險絲
	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
	• 音頻輸入未連接或音源沒有輸出	• 檢查輸入連接和信號完整性,根據需要進行維修或更換
	• 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
音頻循環開啟和關閉	• 當功放機散熱片溫度超過 90℃時,過熱保護接合	• 確保功放機有適當的通風,並根據需要改善機器通風
	• 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高, 超過功放機的最大輸出	• 有關詳細說明,請參閱本手冊的調諧部分重置增益
	• 功放機的阻抗負載太低	•檢查揚聲器阻抗負載,如果低於2Ω立體聲或4Ω單聲 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接	• 參考本說明書線路連接部分的多種連接方式,並重新連接揚聲器
連續輸出不正常	• 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
	• 功放機的阻抗負載太低	•檢查揚聲器阻抗負載,如果低於2Ω立體聲或4Ω單聲 道重新接線揚聲器,以實現更高的阻抗
	• 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
	• 使用的保險絲小於推薦值	• 更換適當的保險絲尺寸
	• 電流太大了	•檢查揚聲器阻抗負載,如果低於2Ω立體聲或4Ω單聲 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
低音反應差	• 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
	• 交叉設置不正確	• 參考本說明書更詳細的線路連接部分,並重新連接揚 聲器
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