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FHA100 User Manual



CLASS-D MONO BLOCK AMPLIFIER

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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	1pcs
3. Mounting Screw (M3x6mm)	8pcs
4. Mounting Screw (M4x16mm)	4pcs
5. Mounting Bracket	4pcs
6. Remote Controller	1pcs
7. Fuse	4pcs

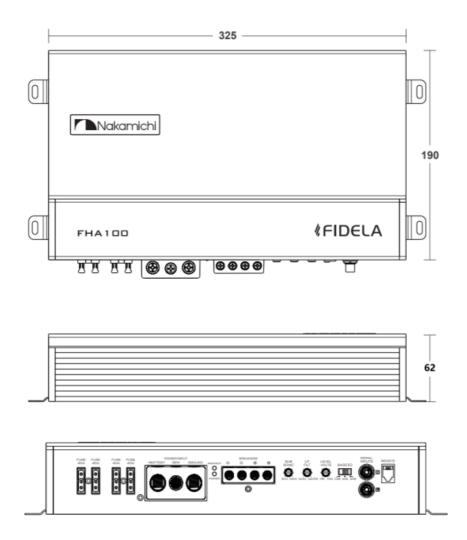
SPECIFIATIONS

N-power Output @4Ω	820 W
N-power Output @2Ω	1400 W
N-power Output @1Ω	2000 W
MAX power	6000 W
T.H.D	≤0.2%
Frequency Response	15Hz-250Hz
Signal To Noise Ratio	≥105dB

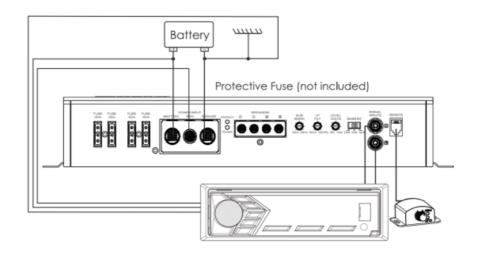
Sensitivity	0.35V-6V
Fuse Size	40Ax4
Unit Dimensions (LxHxW)	325x190x62mm
Net Weight	Approx. 4.56kg

All specifications subject to change without notice.

DIMENSIONS (UNIT:MM)



POWER CONNECTION LEADS



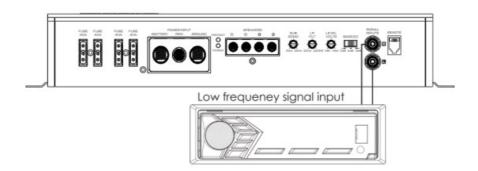
Notes on the power supply

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.

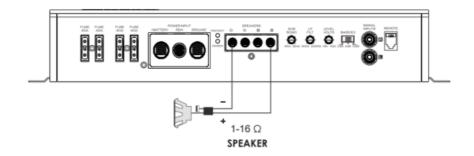
REMOTE:

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.

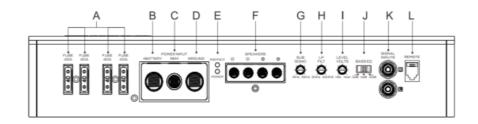
Use the power supply lead with a fuse attached whose value is the same as original fuse. Place the fuse in power supply lead as close as possible to the car battery. During a full power operation, Maximum current will run through the system. Therefore. Make sure the that the leads to be connected to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



Mono mode



PANEL CONTROLS AND FEATURES



A. FUSE

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

B. +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.

C. REM-Power amplifier control line

D. 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.

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

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. Sub sonic filter adjustment (Frequency be veriable from 15hz To 55hz)
- H. Low Pass Frequency Range Regulation.
- I. Volume Regulator.
- J. BASS BOOST

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

K. 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
NO OUTPU T	· Low or no remote turn-on i nput	· Check remote turn-on voltage output at amplifier and correct as needed
	· Fuse blown	· Check power we integrity and reversed polarity. repair as needed and replace fu se
	· Power wires not connecte d	· Check power yoke and ground connect ions and repair of replace as needed
	· Audio input not connected or no output from source	· Check input connections and signal int egrity, repair or repalce os needed
	· Speaker wires not connect ed	· Check speaker wires and repair or repl ace as needed
AUDIO CYC LES ON AN D OFF	· Speaker are blown	· Check system with known working spe aker and repair or replace speaker as needed
	Thermo! protection engog es when amplifier heat sink temperature exceeds 90°C	-Make sure there is proper ventilation for amplifier and improve ventilation as nee ded
	*Loose or poor audio input	Check input connections and repair or replace as needed

DISTORTED	· Amplifier level sensitivity s et too high: exceeding maxi mum output capability of a mplifier	Reset gain referring to the turning section of the manual for detailed instruction s
	· Impedance load to amplifi er too low	· Check speaker impedance load, if belo w 10 mono rewire speakers to achieve a higher impedance
	•• Shorted speaker wires	· Chec k speaker wire connections and r epair or replace as needed
	· Speaker not connected to amplifier properly	· Check speaker wiring and repair of replace as needed refer to the installation section of this manual for detailed instructions
	· Internal crossover not set properly for speaker	· Reset crossovers referring to the multi- cross crossover configuration section of this manual
DISTORTED OUTPUT (C ONT'D)	*Speaker are blown	· Check system with known working spe aker and repair or replace os needed
POOR BAS S RESPON SE	· Speaker wired wrong pola rity causing cancellation at I ow frequencies	Check speaker polarity and repair as ne eded Reset crossovers referring to the multi-cross
	· Crossover set incorrectly	Crossover configuration secrion of this manual for detailed instructions
	· Impedance load to amplifi er too low	· Check speaker impedance load, if belo w 10 mono rewire speaker to achieve a higher impedance

DISTORTED OUTPUT (C ONT'D)	· Short in power wire or inc orrect power connections	· Check power and ground connections and repair as needed
	· Fuse used is smaller than recommended	· Replace with proper fuse size
	· Too much current being dr awn	· Check speaker impedance load, if it is I ower than mono (1 ohm), rewire the spe aker to achieve a better impedance
	· ShOri in power wire of inc orrect	Check power and ground connections a nd repair as needed



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Documents / Resources



Nakamichi FHA100 Class-D Mono Block Amplifier [pdf] User Manual FHA100, FHA100 Class-D Mono Block Amplifier, Class-D Mono Block Amplifier, Mono Block Amplifier, Block Amplifier

References

- User Manual
- Nakamichi
- ➡ Block Amplifier, Class-D Mono Block Amplifier, FHA100, FHA100 Class-D Mono Block Amplifier, Mono Block Amplifier, Nakamichi

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