

148.5mm

105mm

整张纸A3大小，127g铜版纸，双面彩色印刷。先风琴折，再上下对折

黑色边框线为折线，不印刷



FDSK730A User Manual



DIGITAL SOUND PROCESSOR

nakamichicaradio.com nakamichi.global nakamichi.caraudio

PRODUCT FEATURES

- 10 in 12 out high power Hi-RES DSP
- Maximum power of the machine: 1300W
- Support high level input gain adjustment
- Supports digital music: mobile OTG playback
- Supports USB lossless music playback
- Supports Bluetooth music playback
- Super wide frequency range: 20Hz-40KHz
- Support silent or reduced volume when reversing
- Supports steering wheel button control
- 2CH low level inputs
- 10CH high level inputs
- 10CH high level outputs
- 12CH low level outputs
- Supports optical fiber and coaxial input
- Supports external LCD controller
- Supports external APTX HD lossless Bluetooth
- Rated power 4x25W+4x50W+2x100W
- Supports bridging 200W and directly pushing the subwoofer

CHARACTERISTICS

General Specifications		Technical Parameter	
Working voltage	DC 9V-16V	Output Gain	-60 to 6dB, resolution 0.1dB
Operating temperature	-20°C~+60°C	EQ band	31 Band /12 CH, preset EQ:6 groups
Maximum current	50A	EQ Gain	-12 to +12dB, resolution 0.1dB
Standby current	<5mA	Q value range	0.3 to 50dB, resolution 0.1dB
Product size	210x188x48mm	Frequency range	20Hz-40KHz, resolution 1Hz
Product weight	Approx. 2.1kg	Channel delay	0-25 ms [0-850 cm] [0-334.65 inch]
Bluetooth version	V5.1	Delay accuracy	0.01 ms [0.34 cm] [0.13 inch]
Bluetooth music	support	Turn on delay	0 to 10,000 ms, with a step of 1ms
Bluetooth distance	5M	Input range	Low level: 0-8 Vpp; High level: 0-56Vpp
digital input	Coaxial, optic	High and low pass type	Butterworth Bessel Link-Ril
Input Channel	2CH L-Level, 10CH H-Level	High and low pass slope	OFF-48dB/Oct, resolution 6dB
Output channel	12CH L-Level, 10CH H-Level	Harmonic distortion	≤0.05%
Power on control	High level CH1/CH2 or ACC	Signal-to-noise ratio	≥98dB

Power amplifier parameters

CH	Rated power 14.4V 4Ω	MAX power 14.4V 4Ω	Bridge power 14.4V 4Ω	4Ω Speaker	2Ω Speaker
CH1-CH4	50W	100W	/	Support	Not supported
CH5-CH8	25W	50W	/	Support	Support
CH9-CH10	100W	200W	200W	Support	Support

Supported formats

1. Supported audio formats: MP2,MP3,WMA,APE,FLAC,AAC,MP4,M4A,WAV,AIF,AIFC
2. Supported audio sampling rate: 8KHz, 11.0225KHz, 16KHz, 22.05KHz, 24KHz, 32KHz, 44.1KHz, 48KHz
3. Supported USB flash drive formats: FAT32 | NTFS | exFAT
4. Maximum supported capacity of USB flash drives: 256GB

PRODUCT LIST

DSP power amplifier x1	20P DSP cable x1	16P high input cable x1
16P speaker cable x1	OTG connector x2	Computer tuning cable x1
Fuse x2	Installation bracket x2	Instruction Manual x1
screws 4x20mm x2	screws 3x8mm x4	Bluetooth Antenna x1

PRECAUTIONS



Please install it on models with a 12V power supply. If installed in a vehicle with a 24V power supply, it may cause damage to the machine and lead to combustion.



Please install in a well-ventilated location. If installed in a fully enclosed environment, excessively high temperatures may cause the machine to enter a protective state after working for a period of time. The sound can only return to normal after the temperature drops.

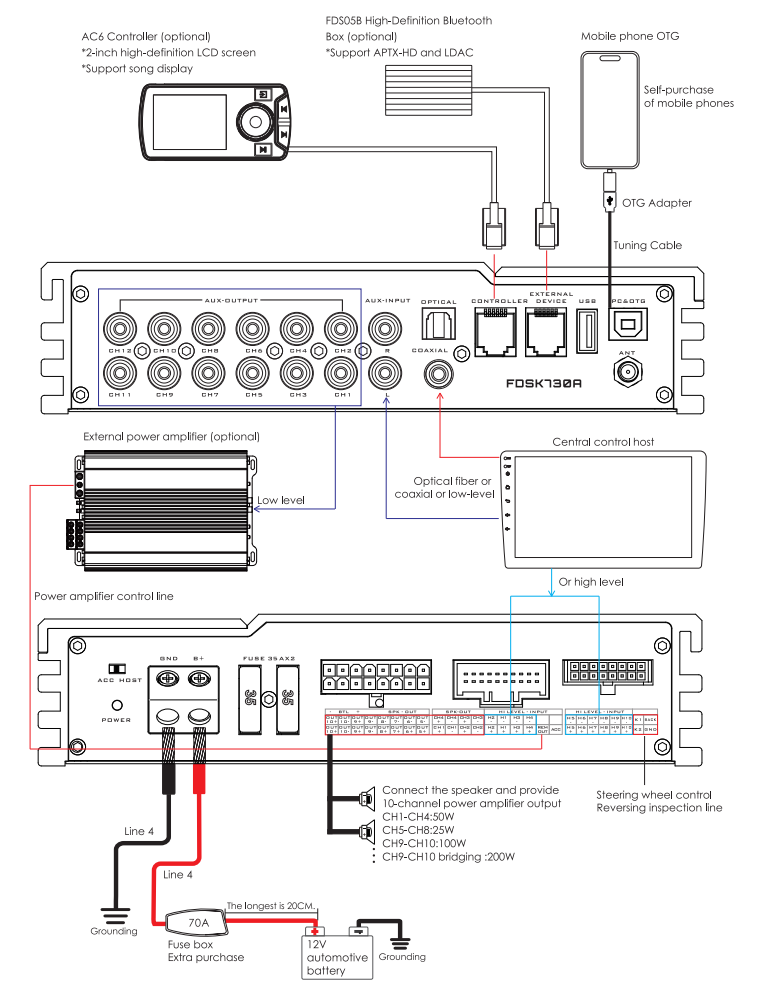


Please have professionals install it. If it is not done by professionals for tuning and installation, when the wiring or Settings are incorrect, it may cause damage to the speaker or the machine.



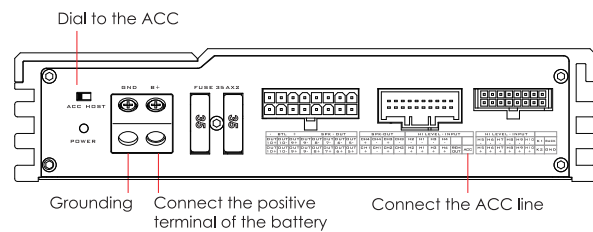
Please ensure that you use wires that match the machine's current. If you use wires that do not match the machine's current or have poor grounding, it may cause the machine to make intermittent sounds it is silent after being played intermittently or for a period of time.

SYSTEM MATCHING DIAGRAM

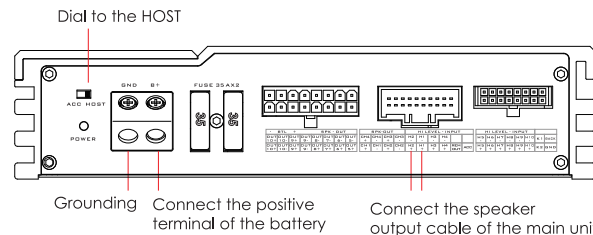


WIRING DIAGRAM

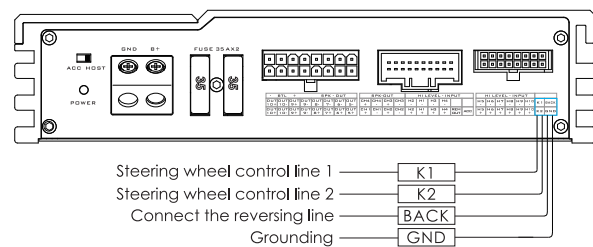
ACC starts up and turns on (that is, the DSP turns on when the car starts)



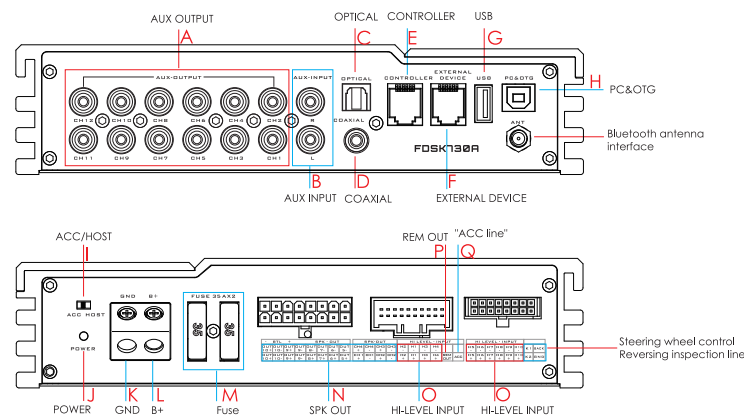
High-level startup (DSP startup when the I host is turned on)



The steering wheel control line and the reversing line are connected



INTERFACE INTRODUCTION



Interface description:

- A. AUX OUTPUT: Expandable external amplifier, connected to the RCA input of the amplifier.
- B. AUX INPUT: Connect to the L-level output of the host or the RCA output of other playback devices.
- C. OPTICAL: Connect the optical fiber output of the host or that of other playback devices.
- D. COAXIAL: Connect to the coaxial output of the host or the coaxial output of other playback devices.
- E. CONTROLLER: The line controller AC6 supports volume control and song display.
- G. USB: USB interface.
- F. EXTERNAL DEVICE: Connect to FDS05B, supporting APTX and LDAC high-definition music.
- H. PC&OTG: When playing OTG on a mobile phone, an OTG adapter needs to be connected.
- I. ACC/HOST: ACC: Turn on the car when it starts. HOST: Boot up when the host is turned on.
- J. POWER: Blue light: Powered on. Red light: Entered protection (will be activated after cooling down).
- K. GND: Connect to the negative terminal of the power supply. Please use Line 4 and ensure it is well grounded.
- L. B+: After passing through the fuse (optional), connect the positive terminal of the battery. Please use Wire 4.
- M. FUSE: Fuse. When the fuse blows, please be sure to use a fuse of the same specification.
- N. SPK OUT: Connect the speaker.
- O. HI-LEVEL INPUT: Connect to the high-level output of the main unit.
- P. REM OUT: Connect the REM OUT port of the power amplifier. When the DSP is turned on, the power amplifier is also turned on.
- Q. "ACC line": Connect to the car's ACC fuse box.

PHONE APK INSTALLATION

Android Phone APK Installation

Method 1

1. Open phone browser, scan the QR code to enter the download
2. Find the FDSK, select Android for download and installation
3. Find FDSK, select Android for download and installation



iPhone APK Installation

Open the app store, Search Nakamichi FDSK for download and installation

Installation precautions

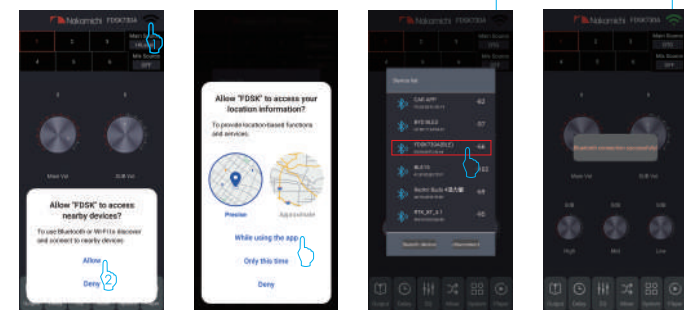
1. During the installation process, please turn off the antivirus software
2. Android phone: Download and unzip before installing
3. During the installation process, please click on allow this installation or authorize this installation based on known application risks.
4. Send APK via mobile phone, please send a compressed file, unzip it upon receipt, and then proceed with installation

APP Connection

Before operating the app, turn on your phone's Bluetooth first

1. Open the FDSK APP
2. Select FDSK730A, Click OK
3. Click on the top right corner
4. Turn on Bluetooth on your phone

When connecting for the first time, a pop-up box will appear. Please select 'Allow' If not allowed, Bluetooth cannot be searched.

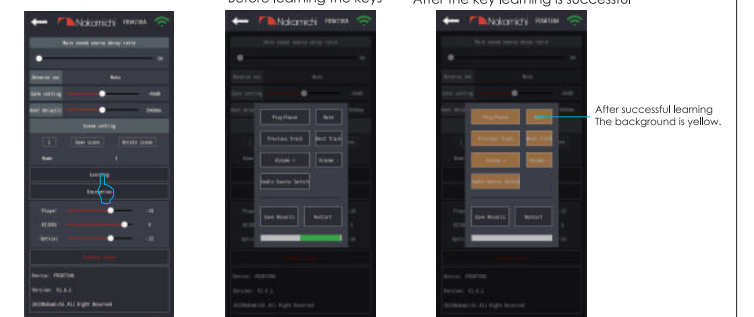


BASIC OPERATIONS

The following operations need to be performed after the APP is installed and connected.

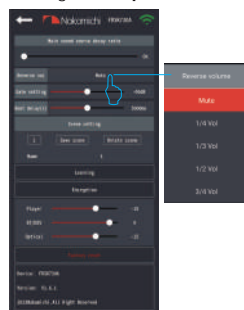
LEARNING OF STEERING WHEEL BUTTONS

1. Click on [System] and select [Control learning]
2. Click on the key function you want to learn on the screen
3. Please press the key you want to operate on the steering wheel within 10 seconds. When the bottom of the key turns yellow, it indicates that the learning is successful
4. For other key learning, repeat the operations in steps 2 and 3
5. After completing all the learning, click [Save Result] When the key learning is incorrect, you need to relearn. Press [Start Again].



Reversing volume setting

Click [System] and select [Reversing Volume]



Signal source selection

Click on the main audio source to select the signal source

