



NQ512BR NQ512BG NQ512BB NQ512BW

DIGITAL MEDIA RECEIVER

CONTENTS

Warnings&Precautions	1 EN
FCC Statement	1 EN
ISED Statement	2 EN
Product Features	2 EN
Installation	3 EN
Installation Procedures	3 EN
Installation Opening	3 EN
To Install The Car Radio	3 EN
Accessory List	4 EN
Dimension(Unit:mm)	4 EN
Wiring Diagram	5 EN
Basic Functions Of Panel Keys	6 EN
Remote Operation	7 EN
Basic Operation	7 EN
Radio Operation	8 EN
Start Listening	8 EN
USB Playback	8 EN
AUX Input	8 EN
Bluetooth Operation	9 EN
Bluetooth Pairing	9 EN
Bluetooth Basic Operation	9 EN
Bluetooth Music Operation	9 EN
APP Operation	10 EN
APP Download	10 EN
APP Connection	10 EN
APP Operation	11 EN
External Microphone	11 EN
Audio Settings	12 EN
Audio Settings List	12 EN
Preset EQ Select	12 EN
User EQ Setup	12 EN
Loundness Setup	12 EN
Bass Adjustment	12 EN
Treble Adjustment	12 EN
Balance Adjustment	12 EN
Fader Adjustment	12 EN
Audio Setup Reset	12 EN
Tuner Settings	13 EN
Tunner Settings List	13 EN
Stereo/Mono Select	13 EN
DX/Local Select	13 EN
RDS ON/OFF	13 EN
Tuner Area Select	13 EN
Clock Settings	14 EN
Clock Settings List	14 EN
Clock Format Settings	14 EN
Clock Adjust	14 EN
Display Settings	14 EN
Display Settings List	14 EN
Spectrum On/Off	14 EN
ID3 On/Off	14 EN
System Version	14 EN
Trouble Shooting	15 EN
Speaker Connection	15 EN
Specification	16 EN

WARNINGS & PRECAUTIONS

To avoid risk of serious injury or possible violation of laws, please read the following thoroughly before installation or connecting.

- This product is designed specifically for use with 12 volt, negative ground electrical systems only.
- Having the wiring and installation done by expert.
Be sure to disconnect the cable from the negative battery terminal while installation.
- This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, shall be placed on the apparatus.
- Fuses shall be replaced only with the correct type and fuse value, and only when the apparatus is powered off.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metallic tools) inside the unit.
- Never set the volume of this product so high that you cannot hear outside traffic and emergency vehicles.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

ISED STATEMENT

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. Cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes :

1. Cet appareil ne doit pas provoquer d'interférences.
2. Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

l'appareil numérique du ciem conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

PRODUCT FEATURES

LCD: VA-LCD DISPLAY

Bluetooth: Version 5.1

Bluetooth Music: Support

Push to Talk: Support

EQ: 32 band, 8 Preset

Pre-Output: 4CH x 2V

Max Power: 4 x 50W

Radio: Preset 18FM, 12AM, RDS

APP Control: iOS and Android Phone

Charge: Front USB 1A

Audio Format: MP3, WMA, AAC, FLAC

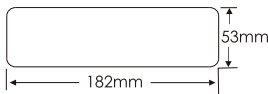
INSTALLATION

Installation Procedures

First complete the electrical connections and then check for correctness.

Installation Opening

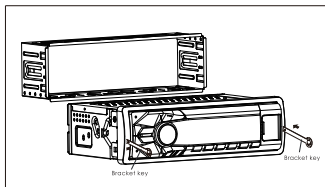
This unit can be installed in any dashboard Having an opening as shown below:



To Install The Car Radio

Be sure you test all connections first, and then follow these steps to install this unit.

1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.
2. Disconnect the wire harness and the antenna.
3. Remove the detachable panel and decorative enclosure frame and place on one side.
4. Insert the two brackets into the left and right sides of the chassis, as shown in the following figure, and separate the chassis from the sleeve.

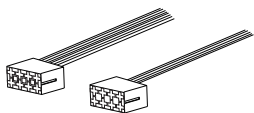


5. Insert the installation sleeve into the center console to be installed, and bend the clip using a screwdriver. Make sure the locking rod is flush with the mounting sleeve and does not protrude.
6. Connect cables as shown in the Wiring diagram.
7. Insert the car radio into the mounting sleeve.
8. Install decorative enclosure frame.

ACCESSORY LIST

Please check the following accessories after opening the package:

ISO Male Connector x2



Remote x1



Battery (Not Included)

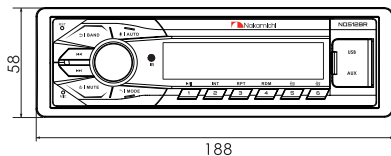
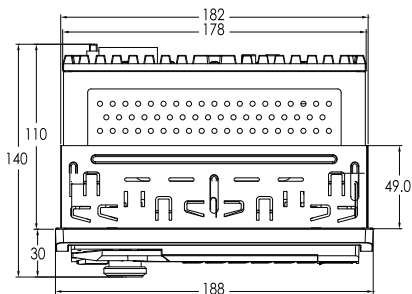
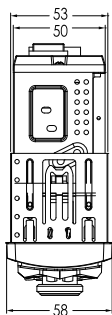
Disassemble keys x2



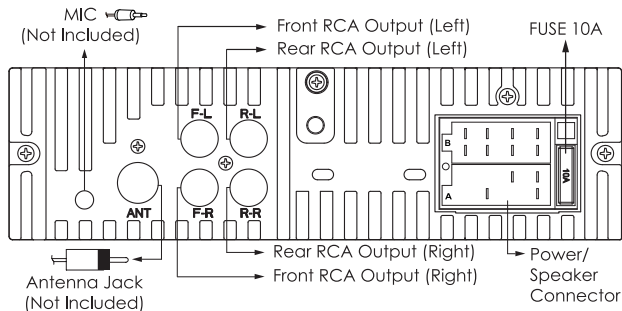
User Manual x1



DIMENSION(UNIT:MM)



WIRING DIAGRAM

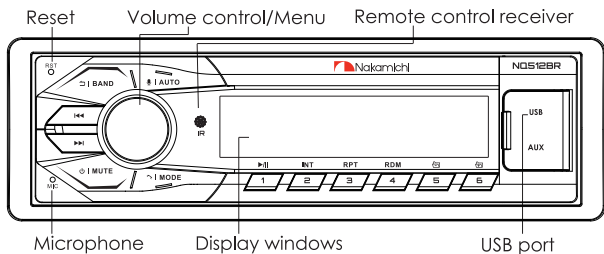


POWER/SPEAKER CONNECTOR

Color	Name
Red	Ignition Wire
Black	GND
Blue	Amplifier Control
Yellow	Battery(+)
Green/Black	Rear Left Speaker -
Green	Rear Left Speaker +
White/Black	Front Left Speaker -
White	Front Left Speaker +
Gray/Black	Front Right Speaker -
Gray	Front Right Speaker +
Purple/Black	Rear Right Speaker -
Purple	Rear Right Speaker +

BASIC FUNCTIONS OF PANEL KEYS

To	Radio Status	USB/BT Music Status
⏪ ⏩	Seek a station manually	Previous/Next track
1	Preset 1	Playback/Pause
2	Preset 2	Intro Playback
3	Preset 3	Repeat Playback
4	Preset 4	Random Playback
5 6	Preset 5/Preset 6	Previous/Next folder
⏪ BAND	Return key function in menu state In radio mode, press to toggle FM1/FM2/FM3/AM1/AM2	
🔇 MUTE	Press to mute, Press an hold to shutdown In call mode, press to end call	
🎤 AUTO	Short press to voice key (bluetooth connection required) In radio mode, press to radio to auto search the channel	
📞 MODE	When the call comes, short press to answer the call (bluetooth connection required) In call mode, short press to switch sound channel (car horn or handset) Short press to switch mode function	



REMOTE OPERATION



Basic Operation

To	Operation (panel)
Power on	Press ⏻ MUTE
Power off	Press and hold ⏻ MUTE
Mute	Press ⏻ MUTE
Volume up and down	Turn the knob
Source select	Press ↶ MODE
Menu	Press the knob
Return	Press ↷ BAND (In menu status)
Turn on voice	Press 🗣️ AUTO (Bluetooth is connected)

RADIO OPERATION

Start Listening

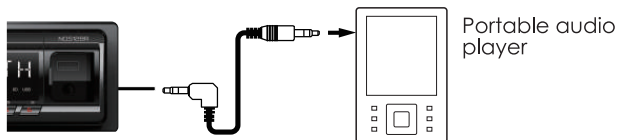
To	Operation (panel)	Remark
Auto memory	Press and hold 1 AUTO	18 FM/12AM
Band selection	Press 2 BAND	FM1/FM2/FM3/AM1/AM2
Seek a station manually	Press 3 4	
Search the next or previous frequency step by step	Press and hold 3 4	
Store a station	Press and hold 1-6	

USB PLAYBACK

To	Operation (panel)
Track selection	Press 5 6
Fast playback	Press and hold 5 6
Playback/Pause	Press 1
Track pre-play	Press 2
Repeat playback	Press 3 <ul style="list-style-type: none">• REPEAT ONE.REPEAT DIR.REPEAT ALL
Random playback	Press 4 <ul style="list-style-type: none">• ON/OFF
Folder selection	Press 5 6

AUX INPUT

- 1.Connect a portable audio player(commmercially available).
Auxiliary input jack



Auxiliary input jack

3.5mm stereo mini plug with "L" shaped connector.
(commercially available).

- 2.Press[**2** | **MODE**]buttons to select AUX IN.
- 3.Turn on the portable audio player and start playback.

BLUETOOTH OPERATION

Bluetooth Pairing

The first time pair mobile phone with receiver, please follow below steps:

1. When there is no pairing, in any mode, the BT1 on the LCD will flash, and the pairing can be performed at this time.
2. Turn on the phone's Bluetooth to Search NQ512B.
3. Click on the NQ512B on the phone to connect. After the connection is successful, the BT1 will stop flashing.
4. When pairing is complete, the mobile phone audio will automatically transfer to the car audio system whenever a call is made or received, or when the mobile phone plays music.

Note:

For more details of bluetooth pairing, please refer to the owner's manual for your mobile phone.

Bluetooth Basic Operation

To	Operation (panel)
Answer a call	Press ↶ MODE
Switch the car horn or mobile phone handset	Press ↶ MODE (In a call)
End a call	Press ⏻ MUTE (In a call)
Adjust call volume	Turn on the knob

Bluetooth Music Operation

To	Operation (panel)
Previous track	Press ⏮
Next track	Press ⏭
Playback/Pause	Press 1

APP OPERATION

APP Download

Please go to the APPALE APP Store or Google Play Store and search [Nakamichi AMC] app, after downloading the APP, install it on your Appale & Android devices.

APP Connection

1. Open the [Nakamichi AMC] APP, click [🔍] to search for NQ512B.
2. Click NQ512B to connect, the [🔴] will be red after the connect is successful.



APP OPERATION

EQ Settings



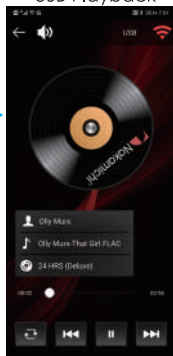
Bluetooth Music Playback



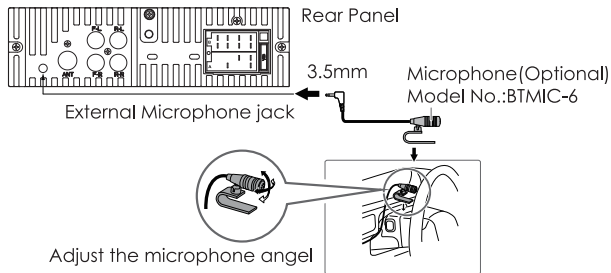
Home



USB Playback



EXTERNAL MICROPHONE



Note:

Since the panel microphone is far from the driver's position, when using an external microphone, you can get better voice calls.

AUDIO SETTINGS

- 1.Press the knob to enter the [MENU].
- 2.Turn the knob to select [AUDIO],then press the knob.

Audio Settings List

Menu	Adjustment
PRESET EQ	USER/NATURAL/POP/CLASS/ROCK/JAZZ/FLAT/SUPER BASS
	└ 30Hz/60Hz/80Hz/100Hz/120Hz/160Hz/250Hz/400Hz/600Hz/ 800Hz/1KHz/1.5KHz/2KHz/2.5KHz/3KHz/3.5K/4K/5K/6K/7K/8K/ 9K/10K/11K /12K/13K/14K/15K/16K/17K/18K/19K
LOUD	OFF/ON
BASS	BASS -7 ~ +7
TREBLE	TREBLE -7 ~ +7
BAL	BALAN L7-L0,0,R1-R7
FADER	FADER R7-R0,0,F1-F7
AUDIO RESET	NO/YES

Preset EQ Select

- 1.Turn the knob to select [PRESET EQ],then press the knob.
- 2.Turn the knob to select [USER/NATURAL/POP/CLASS/ROCK/JAZZ/FLAT/SUPER BASS].

User EQ Setup

- 1.Turn the knob to select [PRESET EQ],then press the knob.
- 2.Turn the knob to select [USER],then press the knob.
- 3.Turn the knob to select frequency for adjustment.

Loudness Setup

- 1.Turn the knob to select [LOUD],then press the knob.
- 2.Turn the knob to select [OFF/ON].

Bass Adjustment

- 1.Turn the knob to select [BASS],then press the knob.
- 2.Turn the knob to adjustment [-7 to +7].

Treble Adjustment

- 1.Turn the knob to select [TREBLE],then press the knob.
- 2.Turn the knob to select [-7 to +7].

Balance Adjustment

- 1.Turn the knob to select [BAL],then press the knob.
- 2.Turn the knob to select [L7-L0 toR1-R7].

Fader Adjustment

- 1.Turn the knob to select [FADER],then press the knob.
- 2.Turn the knob to select [R7-R0 toF1-F7].

Audio Setup Reset

- 1.Turn the knob to select [AUDIO RESET],then press the knob.
- 2.Turn the knob to select [NO/YES].

TUNER SETTINGS

- 1.Press the knob to enter the [MENU].
- 2.Turn the knob to select [TUNER],then press the knob.

Tuner Settings List

Menu	Adjustment	
TUNER	STEREO/MONO	NONE/NEWS/AFFAIRS/INFO/SPORT/
	DX/LOCAL	EDUCATE/DRAMA/CULTURE/SCIENCE/
	RDS OFF/ON	VARIED/POP M/ROCK M/EASY M/
	<input type="checkbox"/> TA OFF/ON	LIGHT M/CLASSICS/OTHER M/WEATHER/
	<input type="checkbox"/> AF ON/OFF	FINANCE/CHILDREN/SOCIAL/RELIGION/
	<input type="checkbox"/> EON OFF/ON	PHONE IN/TRAVEL/LEISURE/JAZZ/
	<input type="checkbox"/> REG OFF/ON	COUNTRY/NATION M/OLDIES/FOLK M/
	<input type="checkbox"/> PTY OFF/ON	DOCUMENT
	AREA EUR/USA/ASIA/RUSS	

Stereo/Mono Select

Turn the knob to select [STEREO or MONO],then turn the knob select [STEREO/MONO].

DX/Local Select

Turn the knob to select [LOC or DX],then turn the knob select [DX /LOCAL].

Remark: DX:Distant exchange

RDS ON/OFF

Turn the knob to select [RDS OFF],then turn the knob select [RDS OFF,ON].

Tuner Area Select

Turn the knob to select [AREA],then turn the knob select [EUR/USA/ASIA/RUSS].

CLOCK SETTINGS

- 1.Press the knob to enter the [MENU].
- 2.Turn the knob to select [CLOCK],then press the knob.

Clock Settings List

Menu	Adjustment
CLK FRMT	12H/24H
CLK ADJ	00:00

Clock Format Settings

- 1.Turn the knob to select [CLK FRMT],then press the knob.
- 2.Turn the knob to select [12H/24H].

Clock Adjust

- 1.Turn the knob to select [CLK ADJ],then press the knob.
- 2.Turn the knob to adjustment.
- 3.Press the knob to switch the clock/minute adjustment.

DISPLAY SETTINGS

Display Settings List

Menu	Adjustment
SPECTRUM	OFF/ON
ID3 TAG	OFF/ON
VERSION	VER 3.1

Spectrum ON/OFF

- 1.Turn the knob to select [SPECTRUM],then press the knob.
- 2.Turn the knob to select [OFF/ON].

ID3 ON/OFF

- 1.Turn the knob to select [ID3 TAG],then press the knob.
- 2.Turn the knob to select [OFF/ON].

System Version

Turn the knob to select [VERSION],then press the button to query the system version information.

TROUBLE SHOOTING

Not work

Fuse blown

Remedy

Replace the fuse: small 10A(Red)

Not responding

System problem

Reset the unit

Can't turn on voice

Bluetooth is not connected

Connect Bluetooth

Phone does not support voice

N.A

Not playing

Incorrect device format

Reformat

Device error

Replacement device

Unsupported audio file

Replace supported audio files

Radio reception is poor

Poor contact of radio antenna

Reconnect the radio antenna

Poor signal at location

Change to other positions

Remote control is invalid

Remote control battery is low

Replace CR2025 battery

Bluetooth call is poor

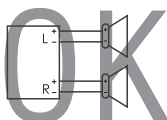
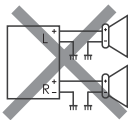
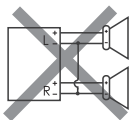
Microphone is too far away

Speak into the microphone

SPEAKER CONNECTION

Do not connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.

Before connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



SPECIFICATION

GENERAL	Power supply Requirement	DC 12V
	Maximum power output	50W X 4CH
	Speaker impedance	4 - 8 Ohm
	Unit Dimensions(WxHxD)	178 x 111 x 50 mm
	Weight	0.44 kg
	Fuse	10 A

RADIO	FM Frequency Range	87.5MHz-108.0MHz
	AM Frequency Range	522 KHz~1620 KHz
	Preset	18FM,12AM

USB INDEX	Usable Audio Formats:	MP3, WMA, AAC, FLAC
	USB Port Type:	2.0
	USB Maximum Capacity:	64GB
	USB Charging:	5V/1A
	Frequency Response:	20 Hz - 20 KHz
	S/N Ratio:	60 dB

BLUETOOTH	Version	Bluetooth 5.1
	BT Profile supports:	A2DP, AVRCP, HFP
	Range of frequency:	2.4 GHz spectrum



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INSTRUCTIONS & SOFTWARE DOWNLOADS AND WARRANTY REGISTRATION.

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