Nakamichi®

NA300iR

Car Audio System Player

INSTRUCTION MANUAL

CD MP3 WMA USB SD

AUX-IN iPod/iPhone

Safety

WARNING
Stop the car before operating the unit.

Important to know...

★ To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.

★ **Caution**：Adjust the volume so that you can hear sounds outside the car. Driving with the volume too high may cause an accident.

★ **Condensation:** When the car is air-conditioned, moisture may collect on the laser lens. This may cause disc read errors. In this case, remove the disc and wait for the moisture to evaporate.

★ The illustrations in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the illustrations may differ from what appears on the actual equipment.

★ If you experience problems during installation, consult your Nakamichi dealer.

★ When you purchase external components, check with your Nakamichi dealer to make sure that they work with your model and in your area.
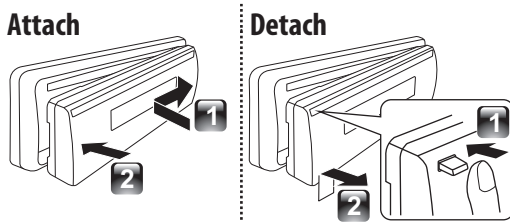
Maintenance
Cleaning the unit: Wipe off the dirt on the panel with a dry silicon or soft cloth. Failure to observe this precaution may result in damage to the monitor or unit.

Cleaning the connector: Wipe off dirt on the connector of the unit and faceplate. Use a cotton swab or cloth.

Preparation

How to attach/detach the faceplate

Attach

Detach

★ Do not expose the faceplate to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.

★ Keep the faceplate in its casing while detached.

★ The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.

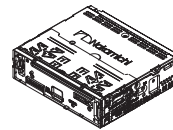★ To prevent deterioration, do not touch the terminals of the unit and faceplate with your fingers.
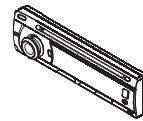
How to reset your unit
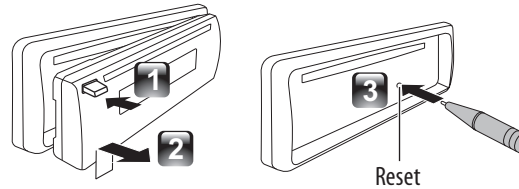
Reset

★ If this unit fails to operate properly, press the reset button.

★ The unit return to factory setting when the reset button is pressed.

What's in the box

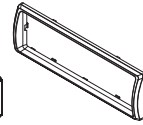Check and identify the contents of your package:
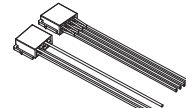

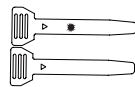| Main unit (with sleeve) | Front panel | Trim plate |

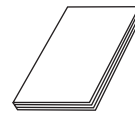| Carrying case (for front panel) | Remote control | ISO male connector |

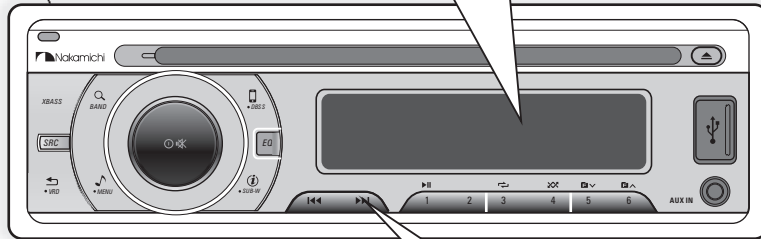| Disassembly tool (2pcs) | Screw x 4pcs | User manual |

Highlight Features

This unit is allowed to connect the 5V preout for Subwoofer.

Variable Color illumination

This unit is equipped with varable color display/illumination.

NAKAMICHI
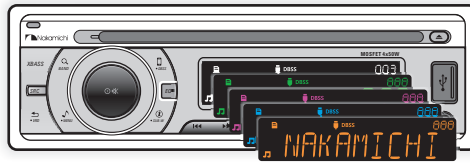
This unit is allowed to connect the 5V preout for Rear and Front RCA Line Out.
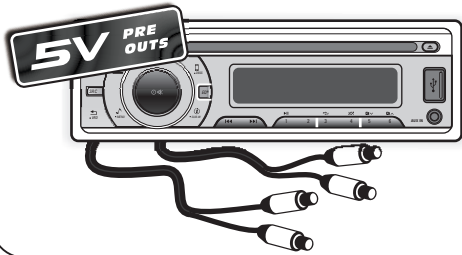
QUICK MUSIC FILE ACCESS

Under Disc/USB/SD/iPod/iPhone playback mode, press ◄◄/►► buttons first, and then press and hold ◄◄/►► buttons within one second, it is can be access into quick music file access track or file up/down browse feature.

Installation / Connection

Basic Procedure

1 Remove the key from the ignition switch, then disconnect the ⊖ terminal of the car battery.
2 Make proper input and output wire connections.
3 Install the unit to your car.
4 Reconnect the ⊖ terminal of the car battery.
5 Reset the unit.

## Warning

★ The unit can only be installed in a car with a 12 V DC power supply, negative ground.
★ If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
★ Disconnect the battery's negative terminal and make all electrical connections before installing the unit.
★ Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
★ Be sure to ground this unit to the car's chassis again after installation.
★ If the power is not turned ON, the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.

Caution

★ If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
★ Install this unit in the console of your vehicle. Make sure the faceplate will not hit the lid of the console (if any) when closing and opening.
★ After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
★ Mount the unit so that the mounting angle is 30° or less.
★ If the fuse blows, first make sure the wires are not touching to cause a short circuit, then replace the old fuse with one that has the same rating.
★ Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
★ When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear).
★ Mounting and wiring this product requires skills and experience. For safety's sake, leave this work to professionals.
  If you experience problems during installation, consult your Nakamichi dealer.
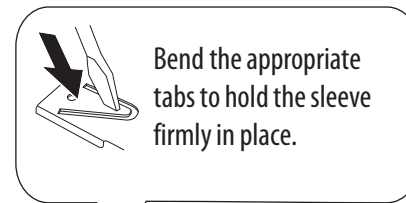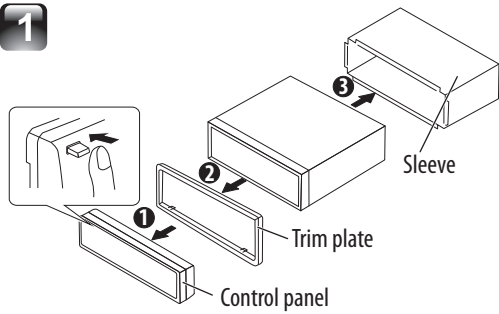
Wiring Connection
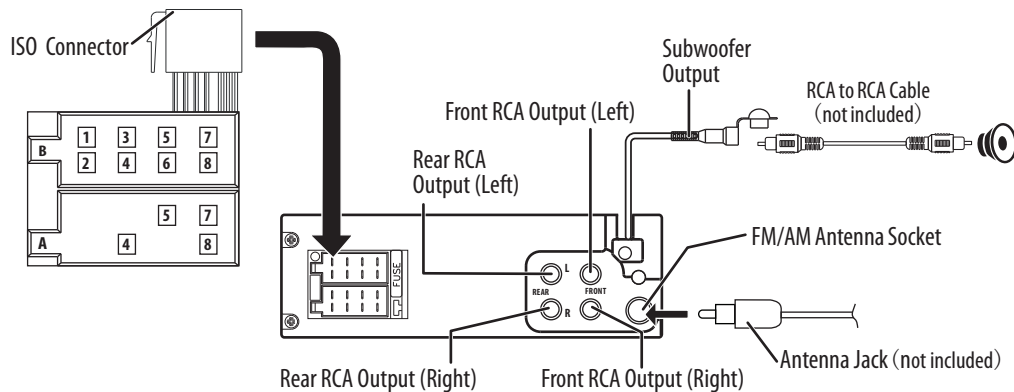
ISO Connector Wiring Chart

Pin	Color and function		Pin	Color and function	
A4	Yellow	Battery(+)	B1/B2	Violet ⊕ / Violet/Black ⊖	Right rear speaker
A5	Blue	Connect to system control terminal of the power AMP or auto antenna relaycontrol terminal(Max 150MA 12VDC)	B3/B4	Grey ⊕ / Grey/Black ⊖	Right front speaker
A7	Red	Ignition(ACC)	B5/B6	White ⊕ / White/Black ⊖	Left front speaker
A8	Black	Ground	B7/B8	Green ⊕ / Green/Black ⊖	Left rear speaker

Installing the unit

1

Sleeve

Trim plate

Control panel

Bend the appropriate tabs to hold the sleeve firmly in place.
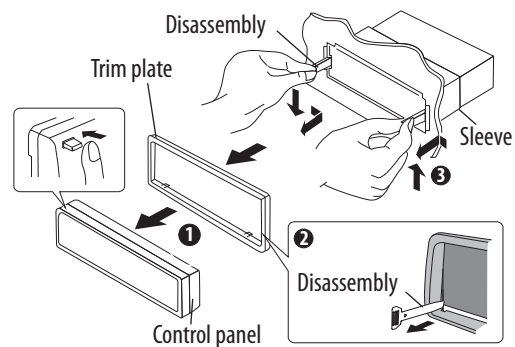
2 Before attaching, make sure the direction of the escutcheon is correct. (Wider hooks on the bottom side.)

18.2 mm

53 mm

Dashboard

Screw
(not included in this packing)

Sleeve

Trim plate
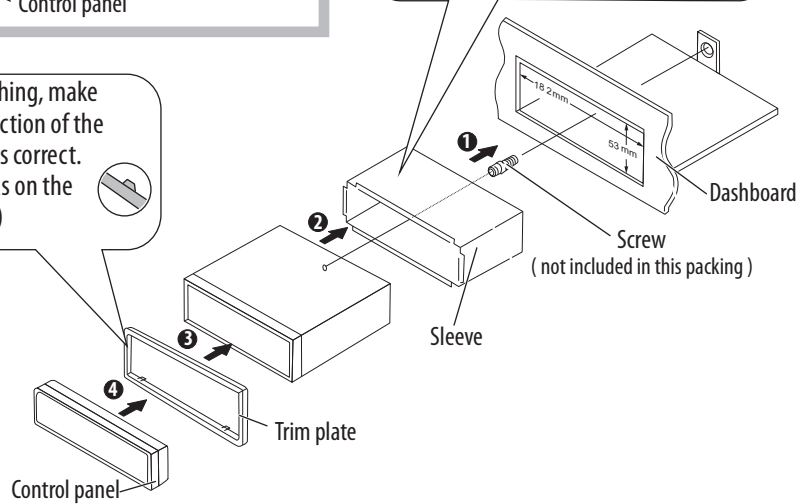
Control panel

Removing the unit

1 Detach the control panel.

2 Engage the catch pin on the removal tools into the holes on both sides of the escutcheon, then pull it out.

3 Insert the disassembly tools deeply into the slots on each side, then follow the arrows instructions as shown on the right.

Disassembly

Trim plate

Sleeve

Disassembly

Control panel

EN 5

Basic Operation

Rotatory Volume Knob   Loading slot   Eject the disc

Detache the control panel   Power / Mute   Display window

Push open the cover

USB terminal

Aux-In jack

When you press or hold the following button(s)...

Main unit	General operation
SRC	Select the available sources (Radio, Disc, USB (USB-iPod/iPhone), SD or Aux-In), if the power is turned on.
Rotatory Volume knob	Rotate it to increase or decrease the volume.
	Select items.
⏻ 🔇 Power / Mute	▪ Turn mute or restore volume. ▪ Turn the unit on. Press and hold again to turn the unit off. ▪ Confirms selection.
🔍 **BAND**	▪ Select the FM bands (FM1/ FM2/ FM3) or AM1 (MW1) / AM2 (Mw2). ▪ Under media playback to access into search mode.
1 ▶❚❚	Pause/resumes playback of a Disc, USB / SD device, iPod/iPhone.
❙◀◀/▶▶❙	▪ Under Radio mode to enter into the Auto Seek mode, press and hold to enter into the Manual Seek mode. ▪ Under Media playback mode to skip track / file, press and hold to fast forward / backward.
♪ **MENU**	To access into the Audio Menu mode, press and hold to enter into the System Menu mode.
📱 **DBSS**	To enter into iPod/iPhone control mode, press and hold to turn On or Off dynamic bass boost sound.
ⓘ **SUB-W**	▪ To view the Clock, press and hold turn On or Off the subwoofer function. ▪ Under RDS mode to view RDS received information. ▪ Under Media playback mode to view play informations.
XBASS	Turn On or Off the Xbass bosster function.
EQ	To adjust the EQ (Preset Equalizer) setting.
↰ **VRD**	▪ Returns to the previous item. ▪ Press and hold access into the VRD display color setting mode.

Function Setting

1 Press ♪ *MENU* to access into the **[AUDIO MENU]** mode, press and hold to enter into the **[MENU]** mode.

2 Press |◄◄ / ►►| repeatedly to select the item to be adjusted.

3 Turn the encoder volume knob to select a value / option.

[AUDIO MENU] ...

Item	Selectable Setting
BASS ADJUST	
BASS LEVEL	Adjust the level -7 to +7.
BASS CFQ	Select the center frequency: 60 / 80 / 100 / 200
MIDDLE ADJUST	
MIDDLE LEVEL	Adjust the level -7 to +7.
MIDDLE CFQ	Select the center frequency: 0.5K / 1.0K / 1.5K / 2.5K
TREBLE ADJUST	
TREBLE LEVEL	Adjust the level -7 to +7.
TREBLE CFQ	Select the center frequency: 10.0K / 12.5K / 15.0K / 17.5K
BALANCE	Adjust the balance between the right and left speakers from 12R (full right) to 12L (full left).
FADER	Adjust the fader between the front and rear speakers from 12R (full rear) to 12L (full front).
SUBWOOFER ADJUST	
SUBWOOFER	Adjust the level 0 to 12.
SUBWOOFER LPF	Subwoofer low pass filter range: 80 / 120 / 160
RESUME	Resume the preset EQ value to factory default value.

[MENU] ...

Item	Selectable Setting
CLOCK	
CLOCK SET	Adjust the Hours and Minutes
CLOCK FORMAT	Select the time format 12H or 24H
BEEP TONE	Turn On or Off this beep sound
DIMMER	Adjust the LCD display backlight level between Hight or Low
VRD DISPLAY COLOR	This unit is equipped with variable color display. Once into the DISPLAY COLOR mode, rotating encoder volue knob to selected the LCD color. ■ COLOR SCAN (default setting); WHITE; GREEN 1; GREEN 2; GREEN 3; AMBER; PINK 1; PINK 2; PURPLE 1; PURPLE 2; BLUE 1; BLUE 2; USER COLOR; ORANGE
DEMO	To automatically demo this unit's major features cyclic on LCD display.

Listening to the Radio
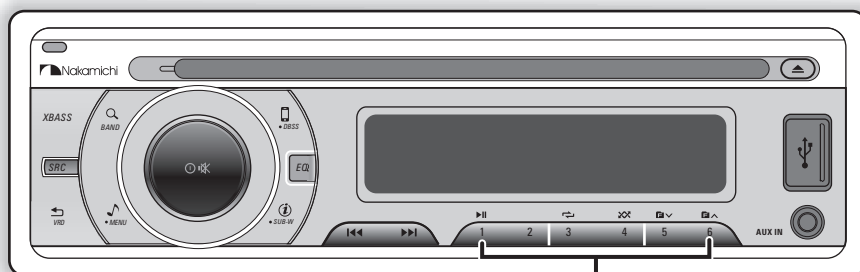
- Hold for about 2 seconds to memorize the current station .
- Press briefly to recall memorized station.

1 Press 🔍 **BAND** repeatedly to a band (FM1, FM2, FM3, AM1(MW1) or AM2 (MW2) .

2 Press ⏮/⏭ to search for a station.

3 Press ⓘ **SUB-W** repeatedly to view RDS received information.
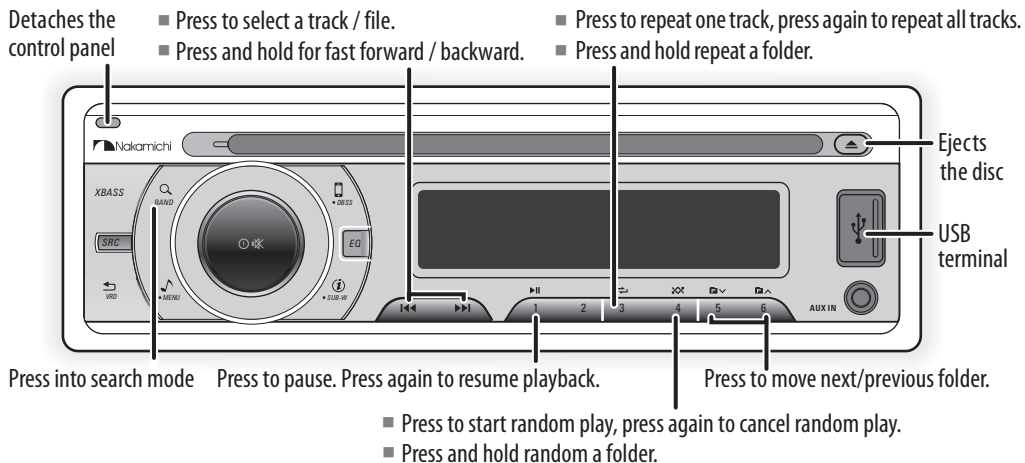
Adjust [MENU] mode setting
While listening to the radio...

1 Press and hold ♪ **MENU** to enter into the **[MENU]** mode.

2 Press ⏮/⏭ repeatedly to select the item to be adjusted.

3 Turn the encoder volume knob to select a value / option.

Item	Selectable Setting
AUTO STORE ↵	Press the ⓘ 🔇 to access into Auto Store mode, the six strongest stations of the selected band are saved in preset channel automatically: FM1, FM2, FM3(1-6), AM1, AM2.
PTY ↵ (Program Type)	Once into the PTY mode, press the ⓘ 🔇 get into program type item, and rotating encoder volume knob to selected category. ■ **Available Program Type:** POP M; ROCK M; EASY M; LIGHT M; CLASSICS; OTHER M; JAZZ M; COUNTRY; NATION M; OLDIES M; FOLK M; A-TEST; ALARM; NEWS; AFFAIRS; INFO; SPORT; EDUCATE; DRAMA; CULTURE; SCIENCE; VARIED; WEATHER; FINANCE; CHILDREN; SOCIAL; RELIGION; PHONE IN; TRAVEL; LEISURE; DOCUMENT
AF (Alternate Frequencies)	■ ON: The unit will be searches for another station with stronger signal, but with the same program identification as the current station automatically. ■ OFF: Cancel
TA (Traffic Announcement)	■ ON: When there is traffic announcement, the unit switches to the tuner mode (regardless of the current mode) and begins to broadcast the announcemet on traffic conditions. When the trafficannouncement is over, it returns to the previous mode. ■ OFF: Traffic announcement does not cut in.
RDS On/Off	Turn On or Off the RDS function.
AREA	Select suitable country region of the radio: USA; LATIN; EUROPE; RUSSIA(Oirt); M-EAST; ASIA; JAPAN; AUST (Australia)
LOCAL SEEK	To receive more radio stations or only stations with strong signal, you can adjust the radio sensitivity.

Listening to a Disc/ USB/SD device

Detaches the control panel

■ Press to select a track / file.
■ Press and hold for fast forward / backward.

■ Press to repeat one track, press again to repeat all tracks.
■ Press and hold repeat a folder.

Ejects the disc

USB terminal

Press into search mode   Press to pause. Press again to resume playback.   Press to move next/previous folder.

■ Press to start random play, press again to cancel random play.
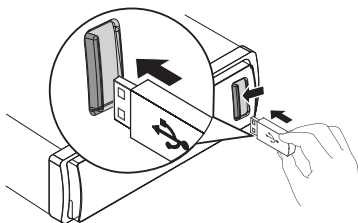■ Press and hold random a folder.

Playing a disc

Insert the disc into the Disc Slot with label side facing up, the unit will play starts automatically.
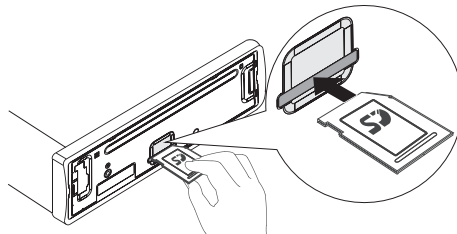
Playing a USB device

1 Slide the USB socket cover market   ⬅︎ to the left.

2 Insert the USB device into the USB socket. The unit starts playing from the USB device automatically.
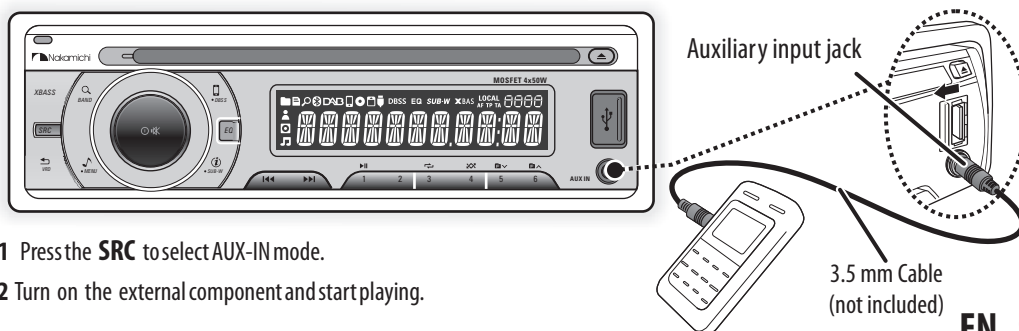
Playing a SD memory card

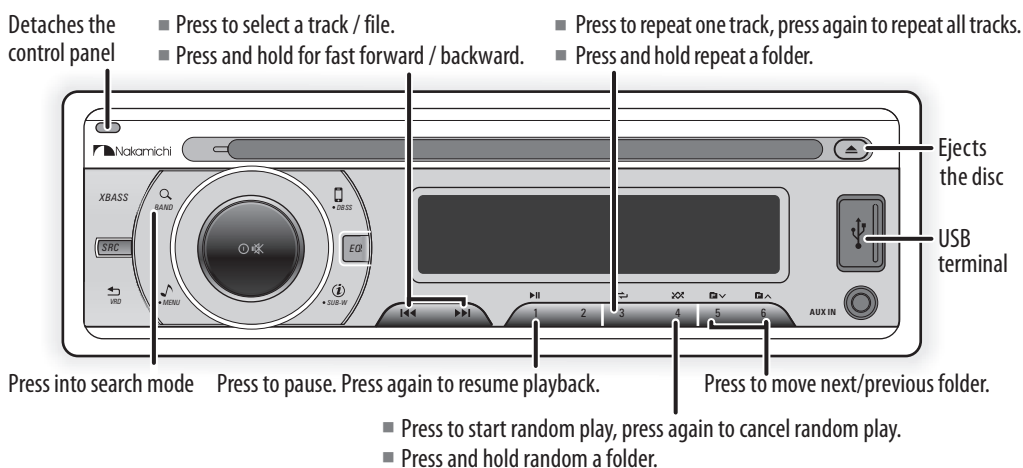1 Press the Panel ⏏ (Release) button.

2 Push the left side of the panel rightward

3 Insert the card into the card slot.

4 Close the front panel, then the unit starts playing from the card automatically.

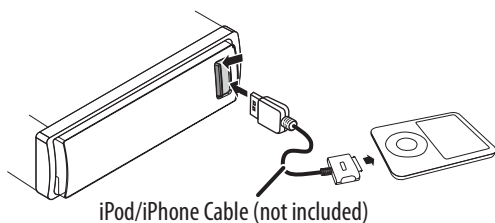## Listening to the other external components

Auxiliary input jack

3.5 mm Cable (not included)

1 Press the **SRC** to select AUX-IN mode.

2 Turn on the external component and start playing.

Listening to the iPod / iPhone

Detaches the control panel ■ Press to select a track / file.
■ Press and hold for fast forward / backward.

■ Press to repeat one track, press again to repeat all tracks.
■ Press and hold repeat a folder.

Ejects the disc

USB terminal

Press into search mode   Press to pause. Press again to resume playback.   Press to move next/previous folder.

■ Press to start random play, press again to cancel random play.
■ Press and hold random a folder.

Playing a iPod / iPhone

1 Slide the USB socket cover market ← to the left.

2 Insert the USB adaptor on one end of iPod/iPhone cable into the USB socket. The unit starts playing from the USB device automatically.

iPod/iPhone Cable (not included)

Search for music on unit

1 Press **BAND** to browse iPod/iPhone menu.

2 Roate Encoder Volume knob to select the Artist search mode, and press to confirm.

3 Press **BAND** to search alphabetically.

4 Roate Encoder Volume knob to select the Album, then press to confirm.

5 Roate Encoder Volume knob to select desired song in the current album, press to confirm start play.

Remark:
To go back to upper level of a folder, press ↰ .

Search for music on iPod / iPhone

1 Press ⬚ on front panel to switch the iPod/iPhoe control mode.

2 Use the iPod / iPhone to search / operates music control.

Remark:
Please make sure the iPod / iPhone cable is connected correctly.
And please only use original iPod / iPhone cable (not supplied) .

Compatible iPod/iPhone

Apple iPod and iPhone models with a 30-pin dock connector:

- iPod nano (2nd generation)

- iPod nano (3rd generation, 4GB only)

- iPod nano (3rd generation, 8GB only)

- iPod nano (4th generation)

- iPod nano (5th generation)

- iPod classic (1st generation)

- iPod classic (2nd generation)

- iPod touch (1st generation)

- iPod touch (2nd generation)

- iPod touch (3rd generation)

- iPod video (30GB, 80GB only)

- iPhone

- iPhone 3G

- iPhone 3GS

- iPhone 4

Remote Control Operation
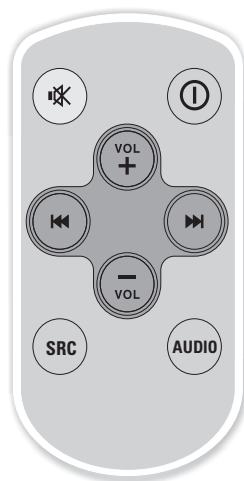
When you press or hold the following button(s)...

Main unit	General operation
◁×	Turn mute or restore volume.
ⓞ	Press turn the unit on or off.
VOL +	Press increase the volume.
― VOL	Press decrease the volume.
◄◄/►►◄	■ Under Radio mode to enter into the Auto Seek mode, press and hold to enter into the Manual Seek mode. ■ Under Media playback mode to skip track / file, press and hold to fast forward / backward.
SRC	Select the available sources (Radio, Disc, USB (USB-iPod/iPhone), SD or Aux-In), if the power is turned on.
AUDIO	Press to access into the Audio Menu mode.

Product Information

General

Power Supply: 12V DC (10.5-14.4V), negative ground

Fuse: 15A

Suitable Speaker Impedance: 4 -8Ω

Aux-In level: 500mV

Audio Section

Maximum Power Output: Mosfet 50W x 4 Channels

Continous Power Output: 24W x 4 RMS

Pre-AMP Output Voltage: 5 V

Subwoofer Output Voltage: 5 V （SUBWOOF VOLUME MAX=12）

FM tuner section

Frequency Range: 87.5 - 108MHz

Usable Sensitivity: Better than 15dB at S/N 30dB

AM tuner section

Frequency Range: 522 - 1620MHz

Usable Sensitivity: Better than 45dB at S/N 26dB

USB devices

USB Flash Memory: USB 1.1 & 2.0 Compatible

Memory Card

Support type of memory card: SD/SDHC

About Audio file

- USB or memory file system: FAT16, FAT32
- MP3/WMA bit rate: 32-320kbps and varible bit rate
- MP3 sampling frequencies: 8-48kHz
- WMA sampling frequencies: 32kHz, 44.1kHz, 48kHz
- ID3 tag v1.0 or later

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