



BV9968MB USER MANUAL

**BLUETOOTH® | MP3-COMPATIBLE
DIGITAL MEDIA AM/FM RECEIVER**

**FEATURING 7" (178 mm) MOTORIZED WIDESCREEN
TOUCHSCREEN DIGITAL TFT MONITOR**



Congratulations on your purchase of a **Boss Audio Systems®**
Multimedia Receiver.

It has been designed, engineered and manufactured to bring you
the highest level of performance and quality, and will offer you
years of entertainment pleasure.

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SPECIFICATIONS

Model No.	BV9968MB		
General features	Fixed front panel with 7" motorized TFT screen FM/AM Radio RBDS A-Link (Screen Mirroring) USB Charging (1A) Front USB and Micro SD support Bluetooth audio stream and hands-free phone call Push-To-Talk (PTT) AUX input AV input Video output Front/Rear view camera support 4V Front and subwoofer pre-amp outputs Max. 4 x 85W power output Steering wheel control (SWC) input		
TFT screen	800 x 480 pixel		
USB/Micro SD	64G		
Working power	12V		
Max Output	4 x 85W		
Working Temperature	-20°C ~ 70°C/-4°F ~ 158°F		
Size	7.01" x 7.36" x 1.97" / 178 x 187 x 50 mm		
Weight	3.53 lbs / 1.60 kg		
Compatible Media			
Picture	JPG/JPEG/BMP		
Audio file	MP3/WAV/WMA/FLAC		
Video file	Format	Video code	Audio code
	.MPEG1	MPEG1	MP2
	.MPG	MPEG2	MP2

SAFTY NOTICE

Please read and understand the following safety information before operating this unit.

WARNING!

To ensure safety while driving and to comply with laws, drivers should not watch video or operate the video device while driving.

- ⊘ The unit is suitable for 12V power supply (requires grounding). Do not connect it to 24V power supply in trucks or buses, or else it will be damaged.
- ⚠ Do not replace the fuse without the guidance of qualified personnel or the unit may be damaged and/or catch fire.
- ⚠ Please follow the traffic laws and regulations and do not watch programs or operate the unit when you are driving to avoid accidents (excluding passengers watching through rear monitor).
- ⚠ To ensure safety and normal unit operation, please ask qualified personnel to install the unit. Do not disassemble or repair the unit without authorization. To avoid damage and accidents, please contact a local car audio distributor for details.
- ⊘ Do not put the unit in a moist environment or water to avoid electric shock, damage, and/or fire due to a short circuit.
- ⊘ The mechanical drive part of the monitor uses an automatic precision transmission component. Do not pull, push or rotate the unit by force or impact the TFT screen to avoid damaging the unit.
- ⚠ Do not insert the audio plug of the vehicle into the master unit directly. Please convert with the dedicated end cable provided by our company.
- ⚠ When installing the unit, prevent metal objects from falling into the master unit from the vents to avoid a short circuit and damaging the unit.

Safety Statement

- ⊘ For the safety of yourself and others, do not watch programs or operate the unit when you are driving. It is prohibited by law.
- ⚠ The back up camera function should be used as an auxiliary view only. We are not responsible for any accidents occurred during backing.

Notes for Battery

- ⚠ Replace only with the same type battery (CR2025). Observe correct polarity while inserting the battery.
- ⚠ Remove the battery from the remote control if not used for a long time.
- ⊘ The remote control contains a coin/button type battery, which can be swallowed. Keep the battery out of reach of children at all times!
- ⚠ Batteries contain chemical substances, so they should be disposed of properly.

ACCESSORIES/INSTALLATION

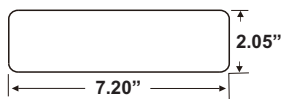
ACCESSORIES

- 1x Remote control
- 1x Wire harness
- 1x Hands-free microphone
- Microphone mount kit
 - 1x Sticker
 - 1x Clip
- Head unit mounting kit
 - 1x Mounting sleeve
 - 1x Mounting strap
 - 1x Tapping screw
 - 1x Hex bolt
 - 1x Hex nut
- 1x Plain washer
- 1x Spring washer
- 2x Release keys

INSTALLATION

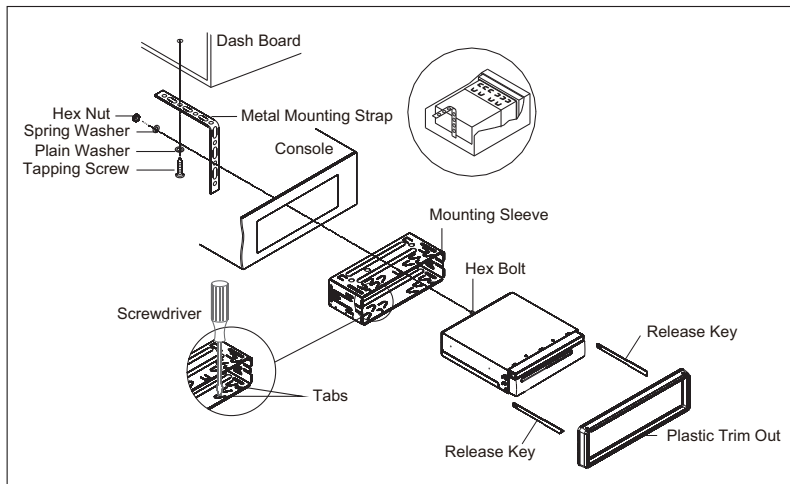
Before you start

- Make sure your dash opening has the correct size shown.
- Disconnect the negative battery terminal of your vehicle.
- Complete the electrical connections.



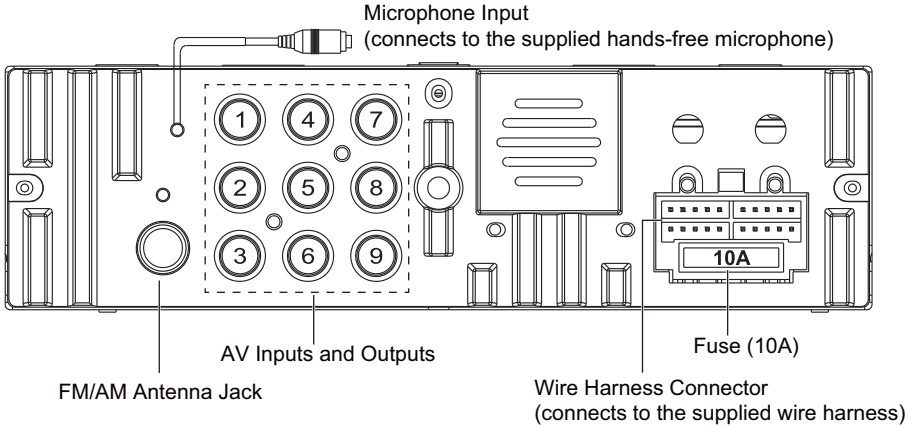
Mount the unit

1. Remove the plastic trim ring. Use a screwdriver to pry open the trim ring then pull it out.
2. Remove the mounting sleeve from the unit. Insert two supplied release keys into the lock position on both sides of the mounting sleeve, then pull the sleeve out of the unit.
3. Correctly insert the mounting sleeve in the dash opening. Then bend the tabs on the mounting sleeve with a screwdriver to secure the mounting sleeve.
4. Insert the unit into the dash opening/mounting sleeve.
5. Use the supplied mounting strap to secure the rear part of the unit.
6. Connect all wirings to the head unit. Replace the plastic trim ring.



WIRE CONNECTION DESCRIPTION

Description of the Input/Output Interface



Audio/Video Inputs and Outputs

- | | |
|---|---|
| 1. R.CAM Rear Camera Input (Yellow) | 7.V-OUT Video Output (Yellow) |
| 2. F.CAM Front Camera Input (Yellow) | 8. L-OUT Left Pre-amp Output (White) |
| 3. SUB Sub Pre-amp Output (Green) | 9. R-OUT Right Pre-amp Output (Red) |
| 4. V-IN Video Input (Yellow) | |
| 5. L-IN Left Audio Input (White) | |
| 6. R-IN Right Audio Input (Red) | |

Wire Harness

Power

- Yellow..... Constant (+12v)
- Red..... Accessory (+12v)
- Black..... Ground (-)
- Orange..... Illumination Input (+12v)
- Violet/Wht..... Reverse Input (+12v)
- Blue..... Ant. Output (+12v, 500 mA)
- Blue/Wht..... Rem. Output (+12v, 500 mA)
- Lt.Green..... Parking Brake Input

Control

- 3.5mm..... SWC Input

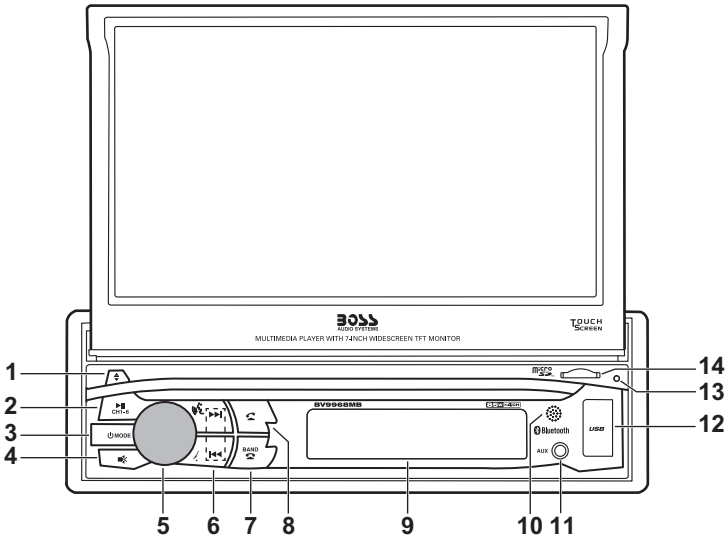
Speaker Outputs

- White..... Left Front (+)
- White/Blk..... Left Front (-)
- Gray..... Right Front (+)
- Gray/Blk..... Right Front (-)
- Green..... Left Rear (+)
- Green/Blk..... Left Rear (-)
- Purple..... Right Rear (+)
- Purple/Blk..... Right Rear (-)

Camera Power

- Red/Blue..... Front Output (+12v, 500 mA)
- Red/White..... Rear Output (+12v, 500 mA)

PANEL INTRODUCTION



1 OPEN /

- Press to slide the screen out.
- Repeatedly press to tilt the screen up or down.
- Hold down to slide the screen in.

2 / CH1-6

- Start, pause or resume playback.
- In radio mode, select a radio station.

3 / MODE

- Press to switch the unit on; hold down to switch the unit to standby.
- Select a source.

4

Mute or restore volume.

5 Volume knob / (Push To Talk)

- Rotate to adjust volume.
- Press to access smartphone voice assistant capability via Bluetooth.

6 /

- In radio mode, press briefly to tune to a station; press and hold to enter manual seeking mode to fine tune frequencies.

- During media play, press to skip to the previous or next track; hold down to fast search forward or backward.

7 BAND /

- Select a tuner band.
- Eject or end a Bluetooth phone call.

8

Dial or answer a Bluetooth phone call.

9 Display

Show current status.

10 Remote sensor

Receive signal from the remote control.

11 AUX jack (3.5mm)

Connect to an external audio device for audio input.

12 USB port

Connect to a USB flash drive for media play.

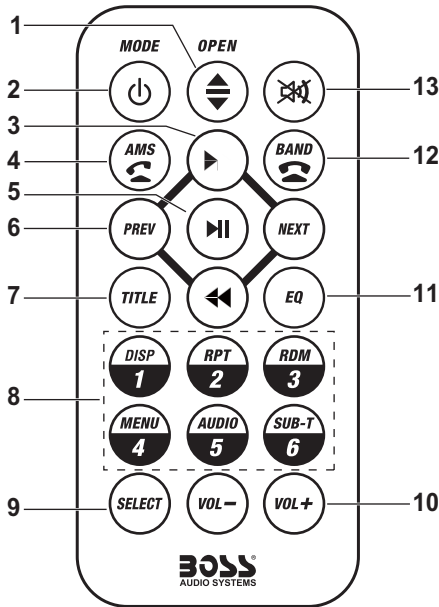
13 Reset button

Press the reset button if the unit fails to operate properly.

14 SD card slot

Connect to a Micro SD card for media play.

REMOTE CONTROL INTRODUCTION



1 OPEN /

- Press to slide the screen out.
- Repeatedly press to tilt the screen up or down.
- Hold down to slide the screen in.

2 / MODE

- Press to switch the unit on; hold down to switch the unit to standby.
- Select a source.

3

- In radio mode, select a preset station.
- During media playback, search forward and backward with x2, x4, x8, x16 speed.

4

- Auto search and store radio stations.
- Dial or answer a Bluetooth phone call.

5

Start, pause or resume playback.

6 /

- In radio mode, press briefly to tune to a station; press and hold to enter manual seeking mode to fine tune frequencies.
- During media playback, skip to the previous or next track.

7

During video playback, enter title list.

8 **Numeric buttons:** In radio mode, select a radio station (1-6).

- **DISP:** During video play, hold down to display the menu bar.
- **RPT:** During media playback, hold down to set repeat play.
- **RDM:** During media playback, hold down to turn on or off random play
- **MENU:** During video playback, hold down to enter root menu.
- **AUDIO:** During video playback, hold down to select audio language.
- **SUB-T:** During video playback, hold down to select subtitle language.

9

Enter sound balance settings.

10

Adjust volume.

11

Enter sound equalizer settings.

12

- Select a tuner band.
- Eject or end a Bluetooth phone call.

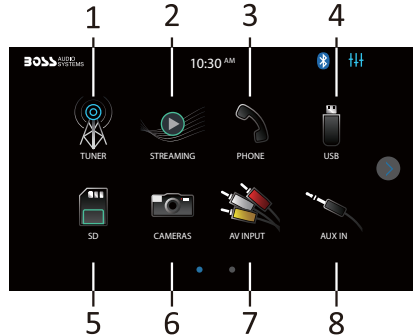
13

Mute or restore volume.

MAIN MENU OPERATION INSTRUCTION

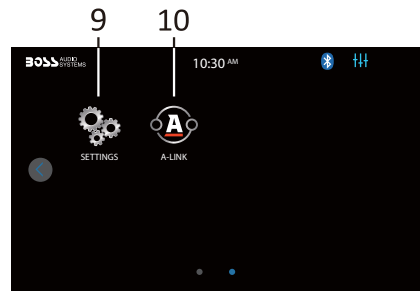
MAIN MENU 1

1. Tuner Interface
2. Bluetooth Streaming Interface
3. Bluetooth Phone Interface
4. USB Interface
5. Micro SD Interface
6. Front/Rear Camera Interface
7. AV INPUT Interface
8. AUX IN Interface



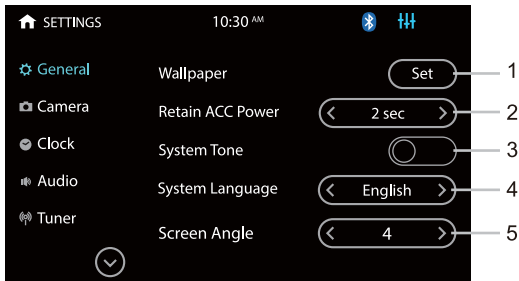
MAIN MENU 2

9. Setting Interface
10. A-LINK(Autolink) Interface



There are eight Setting Menus

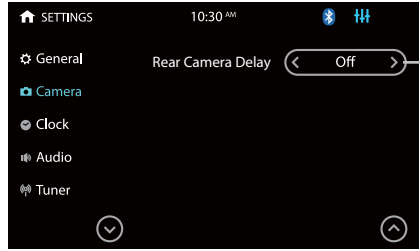
General SETTINGS-Menu 1



1. Touch to set wall paper for the home menu background.
2. Retain ACC Power: select how many seconds to delay shut down of the unit after the vehicle powers down.
3. When turned on, an audible beep tone confirms each function selection.
4. Touch to select Spanish or English.
5. Touch to set a screen angle from four options.

ACCESS SETUP INTERFACE

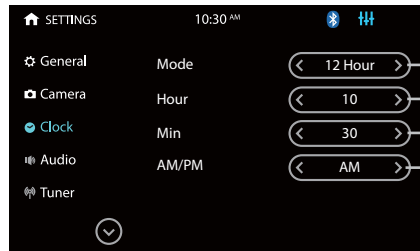
Camera SETTINGS-Menu 2



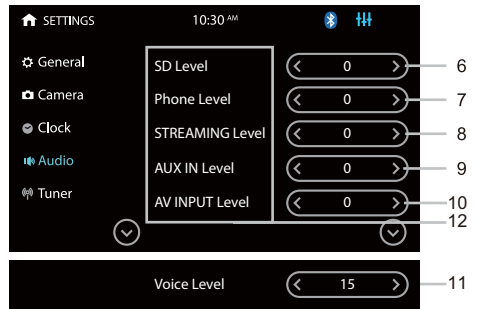
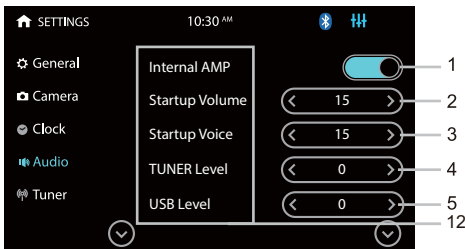
1. Camera Trigger: Touch to select Front/Rear/Off. Select to display the front or rear camera view, or no camera view when reversing.
2. Rear Camera: Touch to enable or disable the rear camera input.
3. Rear Cam Pwr: Touch to enable or disable power output to the rear camera.
4. Front Camera: Touch to enable or disable the front camera input.
5. Front Cam Pwr: Touch to enable or disable power output to the front camera.
6. Rear Camera Delay / Front Camera Delay: Touch to delay trigger of the camera view by a set time (1/2/3 seconds or off) when shifting the gear to the reverse position. Due to varying vehicle configuration, the camera view trigger can be delayed to suit the vehicle.

Clock SETTINGS-Menu 3

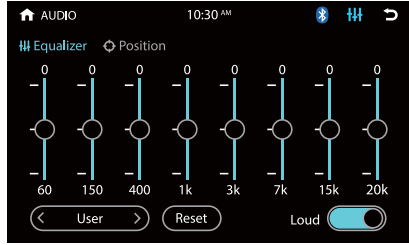
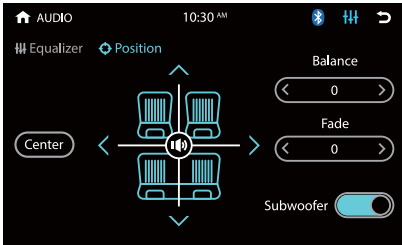
- a. Touch to set clock mode: 12/24 hour.
- b. Touch to set hours.
- c. Touch to set minutes.
- d. Touch to set AM/PM at 12 hour mode.



Audio SETTINGS-Menu 4



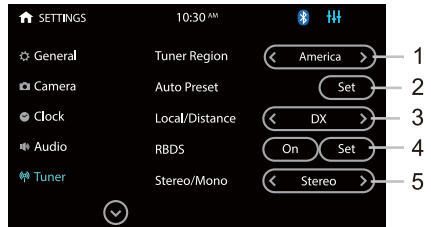
ACCESS SETUP INTERFACE



1. Touch to select whether to output sound from an external amplifier.
 2. 3. Startup volume & Startup voice: Set a default volume.
 - ① If the volume at the last shutdown is less than this volume, the volume at the last shutdown will be used when rebooting;
 - ② If the volume at the last shutdown is greater than this volume, this default volume will be used when rebooting.
 - 4-11. Touch to set a particular volume level for each source.
 12. Slide up or down to enter the previous or next menu interface.
- Position:** Touch to access setup of balance, fader and subwoofer.
Equalizer: Touch to access setup of equalizer and loudness.

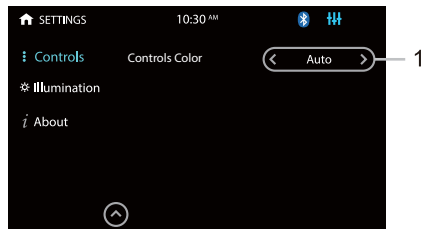
Tuner SETTINGS –Menu 5

1. Select America or EU region you are in to receive radio stations.
2. Perform radio search and store radio stations in each radio band.
3. Select “Local” to receive strong signal only. Select “Distance” to receive both strong and weak signals
4. Turn on or off RBDS function. Select “Set” to access RBDS setting options.
5. Select “Stereo” or “Mono” sound effect.



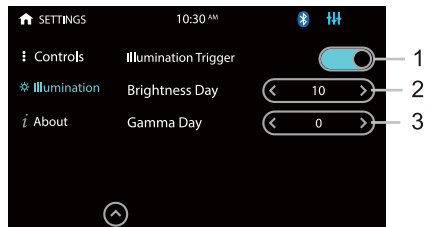
Controls Color SETTINGS –Menu 6

1. Touch to set illumination color for the control panel backlights: Auto, Green, Blue, Red, Yellow, Cyan, Purple, White.



Illumination SETTINGS –Menu 7

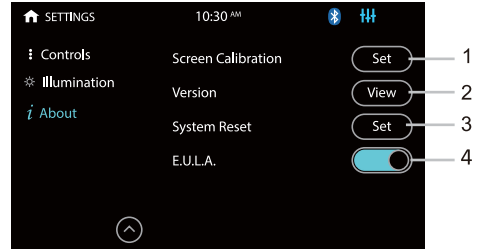
1. Touch to turn on the illumination detection function.
2. Touch to set screen brightness.
3. Touch to set gamma brightness.



TUNER OPERATION

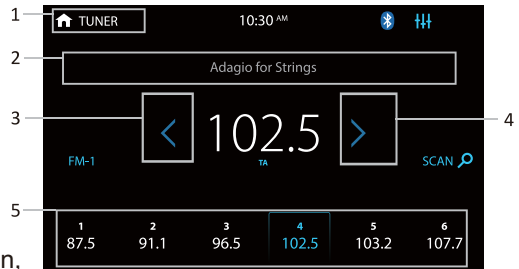
About SETTINGS –Menu 8

1. Calibrate the touch screen to improve responsiveness and accuracy. Touch the crosshair on the screen each time it appears to calibrate the screen.
2. View version numbers of this product
3. Restore the product to factory settings.
4. Enable/disable display of the End User License Agreement when booting up.



TUNER OPERATION

1. Touch to go back to the home page.
2. Show PS, PTY and RT messages from RBDS
3. Short press to seek backwards, long press to enter manual mode.
4. Short press to seek forward, long press to enter manual mode.
5. Short press to select the preset station, long press to save the current station.



RBDS: Touch Setting > Tuner > RBDS > Set to enter the RBDS setup menu. Choose what program type you'd like to listen to: news, sports, information, etc.

a. CT (Clock Time)

Turn on to automatically correct the current time every time the RBDS is enabled.

b. TA (Traffic Announcement)

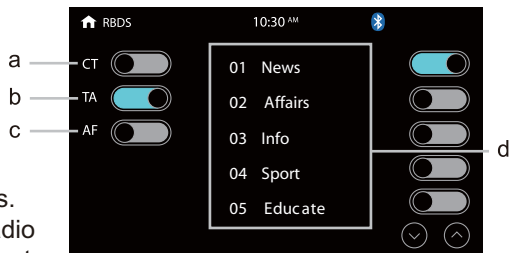
ON: When turned on, the radio will automatically search for traffic stations. The unit will automatically switch to radio mode to broadcast traffic announcement,

even if the unit is in other mode. Once the traffic announcements are complete, the unit will automatically switch back to the previous mode.

OFF: TA function is turned off.

c. AF (Alternative Frequencies)

When the AF function is turned on, the radio will automatically fine tune to other frequencies when the received station becomes weak. A warning message will be displayed on the screen when receiving emergency announcements.



USB/MICRO SD PLAYBACK

d. PTY (Programming Type)

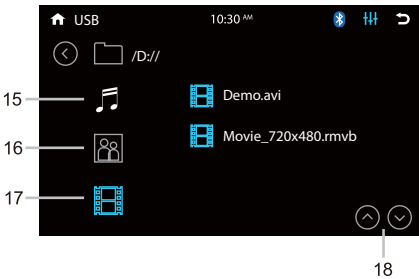
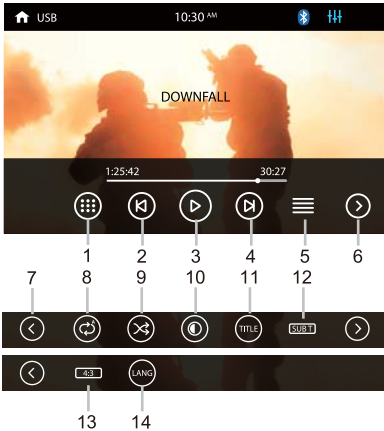
Touch an on-screen button to select a program type. The unit will search for the selected program and broadcast it.

NOTE: If RBDS is turned OFF, CT/TA/AF/PTY will not function.

USB/MICRO SD MUSIC/VIDEO/PICTURE OPERATION

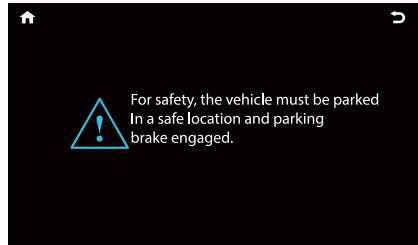
Touch the USB/SD icon in the main menu to enter the USB or Micro SD playback interface.

VIDEO OPERATION



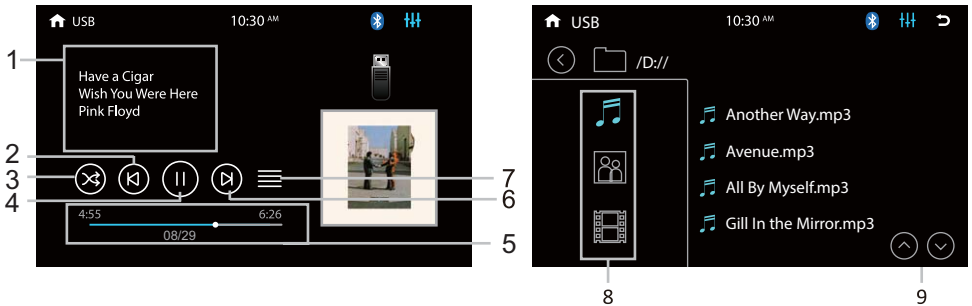
1. Keypad: Enter the number to select video.
2. Short press to move to the previous video, long press to rewind quickly.
3. Touch to playback/pause.
4. Short press to move to the next video, long press to fast forward quickly.
5. List: Touch to enter root menu.
6. Go to the next page of the menu bar.
7. Go to the previous page of the menu bar.
8. Touch to change the repeat mode in the following sequence: repeat track, repeat all, repeat cancel.
9. Touch to change random play mode.
10. Touch to enter video adjust page to adjust Gamma and contrast of video.
11. Touch to enter video title list.
12. Touch to select the subtitle language.
13. Touch to switch aspect ratio of video between 4:3 and 16:9
14. Touch to select audio language for video.
15. View the Music files
16. View the Photo files
17. View the Video files
18. Enter the previous or next page of list.

NOTE: When properly installed, a video cannot be displayed unless the parking brake is applied. If the parking brake wire is not installed correctly, a warning message will appear.



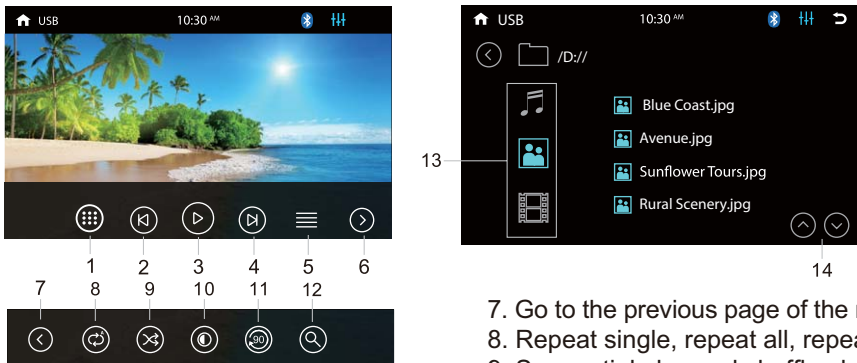
USB/MICRO SD PLAYBACK

MUSIC OPERATION



1. Show the music's ID3 information.
2. Skip to the previous song.
3. Change play mode: repeat all, repeat single, sequential play and shuffle play.
4. Play/Pause.
5. Time bar: show the elapsed time and total time of the current song/track number.
6. Skip to the next song.
7. List: Touch to enter song file list.
8. View the Music/Photo/Video files.
9. Go to the previous or next page of list.

PHOTO OPERATION



1. Keypad: Enter the number to select photo.
2. Skip to the previous photo.
3. Play/Pause.
4. Skip to the next photo.
5. List: Touch to enter photo file list.
6. Go to the next page of the menu bar.
7. Go to the previous page of the menu bar.
8. Repeat single, repeat all, repeat cancel.
9. Sequential play and shuffle play.
10. Touch to enter photo adjust page to adjust Gamma and contrast of image.
11. Turn right 90 degree.
12. Zoom In / Out.
13. View the Music/Photo/Video files.
14. Go to the previous or next page of list.

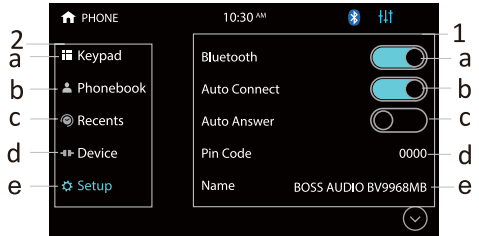
BLUETOOTH OPERATION

BLUETOOTH OPERATION MENU

Touch the "PHONE" icon on the home screen to enter the Bluetooth function interface.

1. Bluetooth setting menu:

- Turn Bluetooth on and off.
When Bluetooth is not connected, the Bluetooth icon on the screen flashes. When Bluetooth is connected, the icon turns to steady from flashing.
- Connect automatically.
- Answer automatically.
- PIN code: 0000. When prompted for password, input 0000 on your mobile phone for Bluetooth connection.
- Bluetooth name for this unit: BOSS AUDIO BV9968MB

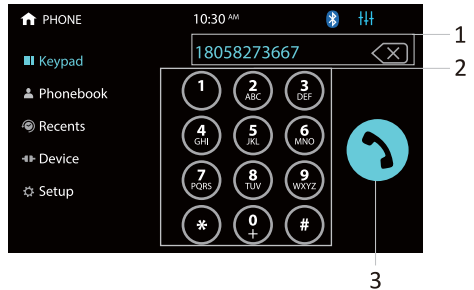


2. Function area:

- Touch to see the dialing keypad. Users can dial phone numbers and make calls.
- Touch to see the Bluetooth phonebook menu.
- Touch to see the Bluetooth call history.
- View Bluetooth connected devices.
- Access Bluetooth settings menu.

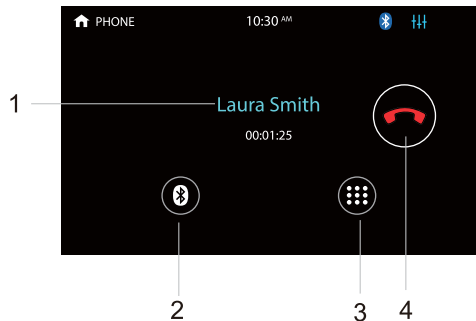
BLUETOOTH DIALING

- Show the number dialed in.
Press to delete input numbers.
- Key area.
- Touch to call out.



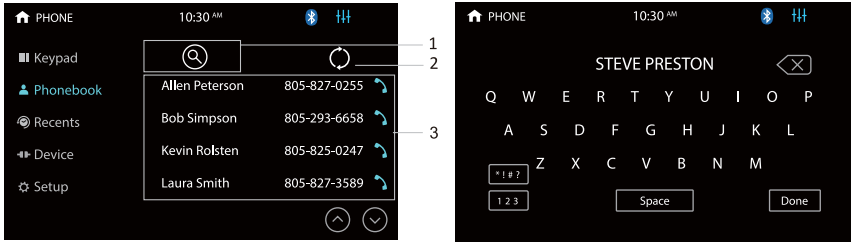
BLUETOOTH CALL

- Show contact name being called.
- Touch to select talk through phone or through this unit.
- Keypad area.
- Touch to hang up the phone call.



BLUETOOTH OPERATION

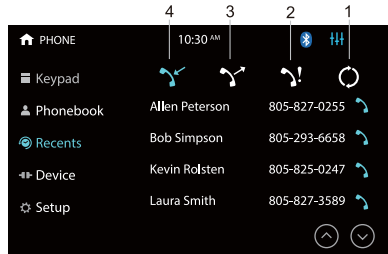
BLUETOOTH PHONE BOOK



1. Touch to search for a name or phone number.
2. Touch to sync phonebook.
3. Contact list.

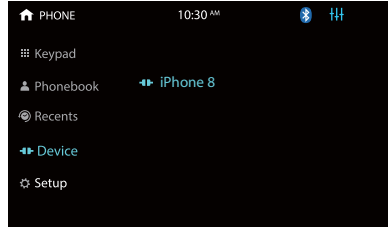
BLUETOOTH PHONE CALL HISTORY

1. Touch to sync phone call history.
2. Touch to show missed calls.
3. Touch to show the dialed phone numbers.
4. Touch to show the received phone numbers.



BLUETOOTH PAIRED DEVICE

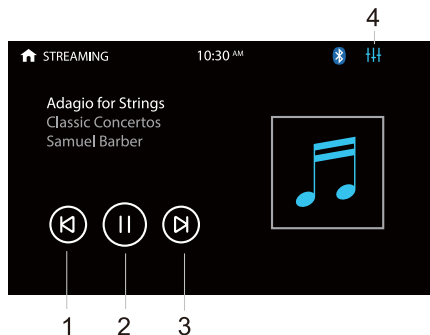
1. Touch to view the device connected to this unit.
2. Touch the device name to disconnect the device.



BLUETOOTH MUSIC STREAMING

When Bluetooth is connected, touch the "STREAMING" icon on the home screen for music streaming.

1. Skip to the previous song.
2. Play/pause.
3. Skip to the next song.
4. Enter the sound settings menu.



A-LINK(SCREEN MIRRORING) OPERATION

A-LINK App allows you to mirror the screen of certain Android smartphones on the screen of this unit.

Scan either of the QR codes to download the “A-LINK” App in Amazon App Store or Google Play Store and install it to your smartphone.

Simply connect your smartphone to the USB port on the front panel using the original cable of your smartphone. You will see the favorite smartphone apps directly on the screen of this unit.



Amazon App Store




Google Play Store

Note:

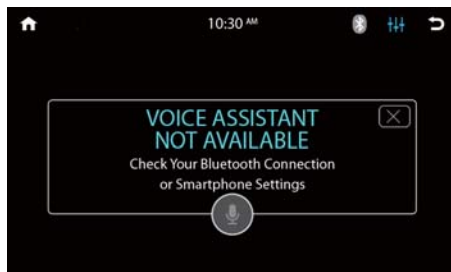
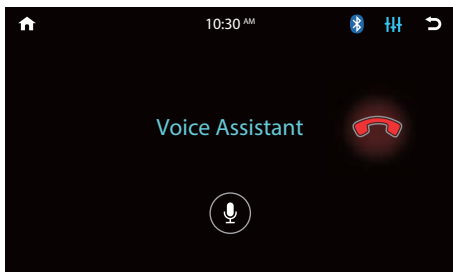
1. Supports 2 way control for Android device.
2. Supports Android 8.0+ or higher, not all apps are supported.

PTT(PUSH-TO-TALK) OPERATION

This Push-To-Talk feature allows direct access to Android and IOS smart-phones voice assistant capability when you establish the Bluetooth connection between your smartphone and this unit. Press the  button on the front panel to use the function when Bluetooth connection is made.

Note:

- Before using the Push-To-Talk, you must enable the mobile data on your smartphone.
- To use the navigation feature, switch to the BT Audio source to hear voice commands over the speakers of your vehicle.



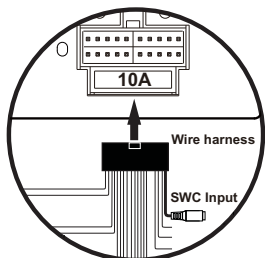
STEERING WHEEL CONTROL (SWC)

SWC INTRODUCTION

Steering Wheel Control (SWC) function allows you to operate this unit via an external device (steering wheel control).

A third-party adapter must be used in order for this unit to be compatible with your OEM steering wheel controls. We recommend PAC SWC series.

This unit has a built-in 3.5mm SWC interface that is compatible with many popular 3rd party SWC control modules, such as PAC, METRA, and others.



* Your product design may differ.

3.5mm SWC port is located on the supplied wire harness which is plugged into the rear panel of the unit.

PROGRAMMABLE CONTROLS

The following radio / audio function controls are available to be programmed.

Source	Volume -
Mute	Band
Home	Phone Menu
Seek + / Next Track	Bluetooth Talk
Seek - / Previous Track	Bluetooth End Call
Volume +	Voice Assistant / PTT

SWC INSTALLATION / PROGRAMMING

Contact your local installation expert for the correct SWC adapter for your specific vehicle.

1. For most SWC adapters, select program using "Pioneer/Sony/Other" mapping order as described in "PROGRAMMABLE CONTROLS".
2. When programming, if a function is not supported (or not desired), then the function MUST be skipped as per the SWC module instructions.
3. The SWC function MUST be programmed in the correct order as per the function mapping order instructions.

Note

- Not all OEM steering wheel functions may be supported.
- For SWC programming technical assistance, call the number in your SWC instruction manual.

TROUBLESHOOTING

General

Problem	Cause	Corrective Action
Unit not powered on	Unit's fuse is blown.	Install a new fuse with right rating.
	Car battery fuse is blown.	Install a new fuse with right rating.
	Illegal operation.	Press the Reset button to reset.
Insensitive screen touch	Place of touch screen is offset.	Calibrate the screen (SETTINGS > About > Screen Calibration)
No audio output	Improper audio connection.	Check wiring and correct it.
	VOLUME 0	Turn up the volume.
Low audio output	Volume set too low.	Increase the volume.
	Heavily biased volume balance.	Check and adjust audio balance to the center position
Bad sound or distortion	Speaker power rating is not compatible with the unit.	Connect proper speakers.
	Speaker is shorted.	Check speaker wiring.

Tuner

Problem	Casue	Corrective Action
Poor reception	Auto antenna is not connected.	Connect and extend the auto antenna properly.
	Local function is activated.	Activate Distance (DX) function.

Image

Problem	Casue	Corrective Action
No image	Parking wire is not connected.	Connect and check the wiring.
	Parking brake is not engaged.	Stop the vehicle in a safe place and engage the parking brake.
Image flashing or interference occurring	Video signal connection is not properly made.	Check and correct the wiring.
Improper image height/width display	Image aspect ratio is not properly set up.	Change the aspect ratio to correct one.



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